

# ATTACHMENT 2

## LABORATORY ANALYTICAL RESULTS

## TABLE OF CONTENTS

**CLIENT:** ECO & ASSOCIATES, INC.  
**PROJECT:** B & B, MONTHLY CITY WELL SAMPLING  
**SDG:** 12H184

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1004
GC/MS-VOA	METHOD 5030B/8260B	2000 – 2121
	METHOD 5030B/8260B SIM	2122 – 2193
GC/MS-SVOA	**	3000 –
GC-VOA	**	4000 –
GC-SVOA	METHOD 8151A	5000 – 5079
HPLC	**	6000 –
METALS	**	7000 –
WEI	**	8000 –
OTHERS	**	9000 –

\*\* - Not Requested



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

Date: 09-13-2012  
EMAX Batch No.: 12H184

Mitra Fiuzat

Eco & Associates, Inc.  
1855 W. Katella Ave, Suite 340  
Orange, CA 92867

Subject: Laboratory Report  
Project: B & B, Monthly City Well Sampling

-----  
Enclosed is the Laboratory report for samples received on 08/27/12.  
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
08-27-12-CW-1	H184-01	08/27/12	WATER	CHLORINATED HERBICIDES VOLATILE ORGANICS BY GC/MS VOC SIM
08-27-12-CW-5	H184-02	08/27/12	WATER	CHLORINATED HERBICIDES VOLATILE ORGANICS BY GC/MS VOC SIM
08-27-12-CW-6	H184-03	08/27/12	WATER	CHLORINATED HERBICIDES VOLATILE ORGANICS BY GC/MS VOC SIM
08-27-12-CW-8	H184-04	08/27/12	WATER	CHLORINATED HERBICIDES VOLATILE ORGANICS BY GC/MS VOC SIM
08-27-12-CW-9	H184-05	08/27/12	WATER	CHLORINATED HERBICIDES VOLATILE ORGANICS BY GC/MS VOC SIM
08-27-12-CW-10	H184-06	08/27/12	WATER	CHLORINATED HERBICIDES VOLATILE ORGANICS BY GC/MS VOC SIM
08-27-12-FDUP-1	H184-07	08/27/12	WATER	CHLORINATED HERBICIDES

Sample ID	Control #	Col Date	Matrix	Analysis
08-27-12-TB-1	H184-08	08/27/12	WATER	VOLATILE ORGANICS BY GC/MS VOC SIM
08-27-12-CW-6MS	H184-03M	08/27/12	WATER	VOLATILE ORGANICS BY GC/MS CHLORINATED HERBICIDES VOC SIM
08-27-12-CW-6MSD	H184-03S	08/27/12	WATER	CHLORINATED HERBICIDES VOLATILE ORGANICS BY GC/MS VOC SIM

The results are summarized on the following pages.

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

Sincerely yours,



-----  
Caspar J. Pang  
Laboratory Director

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

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

NELAC Accredited Certificate Number 02116CA  
L-A-B Accredited DoD ELAP and ISO/IEC 17025 Certificate Number L2278 Testing

# CHAIN OF CUSTODY

<b>EMAX</b> LABORATORIES, INC.		1835 W. 205th Street, Torrance, CA 90501 Tel #: 310-618-8889 Fax #: 310-618-0818 Email: info@emaxlabs.com		PO NUMBER: <b>ECO-11-482</b>		EMAX CONTROL NO. *12 H184	
CLIENT: <b>Eco &amp; Associates, Inc.</b>		PROJECT: <b>Arvin City Wells</b>		PROJECT CODE:		TAT	
COORDINATOR: <b>Mitra Fuzat</b>		TEL: <b>714-289-0995</b>		FAX: <b>714-289-0965</b>		<input type="checkbox"/> Rush _____ hrs. <input type="checkbox"/> Rush _____ days <input type="checkbox"/> 7 days <input type="checkbox"/> 14 days <input type="checkbox"/> 21 days <input type="checkbox"/> 30 days <input type="checkbox"/> _____ days	
SEND REPORT TO: <b>Mitra Fuzat</b>		COMPANY: <b>Eco &amp; Associates, Inc.</b>		ADDRESS: <b>1855 W. Katella Av, Ste 340</b>		<input checked="" type="checkbox"/> Normal TAT	
ORANGE, CA 92867		EMAX PM		ANALYSIS REQUIRED		COMMENTS	

LAB	SAMPLE ID	CLIENT	SAMPLING		CONTAINER	MATRIX CODE	QC	PRESERVATIVE CODE			Cooler #	Temp. (°C)	Sample #s				
			LOCATION	DATE				TIME	NO.	SIZE				TYPE	IC = Ice	HC = HCl	FM = FM03
1	08-27-12-CW-1		ARVIN	8/27/12	0951	8	VAF	VAF	GW								
2	08-27-12-CW-5				0930	8											Level 4
3	08-27-12-CW-6				1055	24											MS/MSD
4	08-27-12-CW-8				1036	8											
5	08-27-12-CW-9				1138	8											
6	08-27-12-CW-10				1012	8											
7	08-27-12-FDUP-1					8											
8	08-27-12-TB-1					3	40ml	VOA	W								
9																	
10																	

SAMPLER		RELIQUISHED BY		COURIER/ARBILL		RECEIVED BY	
Omid Rabbani		Gross		08-27 1410		[Signature]	

NOTICE: Turn-around-time (TAT) for samples shall not begin until all discrepancies have been resolved. For samples received and discrepancies resolved after 1500 hrs, TAT shall start at 0800 hrs the next business day. The client is responsible for all cost associated with sample disposal. Samples shall be disposed of as soon as practical (but not prior to fifteen (15) calendar days) after issuance of analytical report unless a different sample disposal schedule is pre-arranged with EMAX. Disposal fee for samples defined by CA Title 22 as non-hazardous shall be \$5.00 per sample. EMAX will return hazardous samples to the client at the client's expense unless directed in writing otherwise.



SAMPLE RECEIPT FORM 1

Type of Delivery	Airbill / Tracking Number	ECN 12H184
<input type="checkbox"/> Fedex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Others		Recipient I Patel
<input type="checkbox"/> EMAX Courier <input checked="" type="checkbox"/> Client Delivery		Date 8/27/12 Time 1410

**COC Inspection**

Client Name       Client PM/FC       Sampler Name       Sampling Date/Time/Location       Sample ID       Matrix  
 Address       Tel # / Fax #       Courier Signature       Analysis Required       Preservative (if any)       TAT  
 Safety Issues (if any)       High concentrations expected       Superfund Site samples       Rad screening required

Comments:

**Packaging Inspection**

Container:  Cooler (3)       Box       Other  
 Condition:  Custody Seal       Intact       Damaged  
 Packaging:  Bubble Pack       Styrofoam       Popcorn       Sufficient       Plastic Bag  
 Temperatures (Cool, =6 °C but not frozen):  
 Cooler 1 4.5 °C       Cooler 2 2.0 °C       Cooler 3 2.3 °C       Cooler 4 \_\_\_\_\_ °C       Cooler 5 \_\_\_\_\_ °C  
 Cooler 6 \_\_\_\_\_ °C       Cooler 7 \_\_\_\_\_ °C       Cooler 8 \_\_\_\_\_ °C       Cooler 9 \_\_\_\_\_ °C       Cooler 10 \_\_\_\_\_ °C  
 Thermometer: A - S/N 101541371      B - S/N 101541382      C - S/N 122091701

Comments:  Temperature is out of range. PM was informed IMMEDIATELY.

Note: pH holding time requirement for water samples is 15 mins. Water samples for pH analysis are received beyond 15 minutes from sampling time.

DISCREPANCIES				
LSID	LSCID	Description Code	Sample Label ID / Information	Corrective Action Code
7	65-72	D1, D2	NO Time	R2
8	73-75	D1, D2, B3	NO Time, JB-1	↓
1-7		H1		

Continue to next page.

REVIEWS      Sample Labeling: *[Signature]*      SRF: *[Signature]*      PM: *[Signature]*  
 Date: 8/27/12      Date: 8/27/12      Date: 8/27/12

**LEGEND:**

Code	Description-Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC.	G1	Sample indicated in COC is not received.	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label.	G2	MS/MSD is not indicated in COC.	R2	Proceed as indicated in COC and inform client
A3	Analysis is inconsistent in COC vis-à-vis label.	G3	No identified trip blank, proceed as indicated in COC.	R3	Refer to attached instruction
B1	Sample ID is not indicated in COC.	G4	Trip Blank is designated in SDG _____	R4	Cancel the analysis
B2	Sample ID is not indicated in label.	G5	Trip Blank has no sampling date & time. Log-in with earliest sampling date and 0:00 time.	R5	Inform client
B3	Sample ID is inconsistent in COC vis-à-vis label.	H1	<i>ALL vials REDD Pres/HCl</i>	R6	Proceed as indicated in COC
C1	Improper container		<i>EMAX STICKER But NO info on coc &amp; client labels</i>		
C2	Broken container				
C3	Leaking container				
D1	Date and/or time is not indicated in COC.				
D2	Date and/or time is not indicated in label.				
D3	Date and/or time is inconsistent in COC vis-à-vis label.				
F1	Improper preservation				
F2	Insufficient Sample				
F3	Bubble is > 6mm. Use vial with smallest bubble first.				
F4	Bubble is > 6mm in all vials.				
F5	>20 % solid particle				
F6	Out of Holding Time				

## REPORTING CONVENTIONS

### DATA QUALIFIERS:

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

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

### ACRONYMS AND ABBREVIATIONS:

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

### DATES

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

LABORATORY REPORT FOR

ECO & ASSOCIATES, INC.

B & B, MONTHLY CITY WELL SAMPLING

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

SDG#: 12H184

CASE NARRATIVE

Client : ECO & ASSOCIATES, INC.  
Project : B & B, MONTHLY CITY WELL SAMPLING  
SDG : 12H184

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

A total of eight (8) water samples were received on 08/27/12 for Volatile Organics by GC/MS analysis, Method 5030B/8260B in accordance with Department of Defense Quality Systems Manual for Environmental Laboratories, Version 4.2 and QAPP09.

**Holding Time**  
Samples were analyzed within the prescribed holding time.

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

**Method Blank**  
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Results were compliant to project requirement.

**Lab Control Sample**  
A set of LCS/LCD was analyzed with the samples in this SDG. Percent recoveries for V006H15L/C were all within QC limits.

**Matrix QC Sample**  
A set of MS/MSD was analyzed with the samples in this SDG. Percent recoveries for H184-03M/S were within project QC limits.

**Surrogate**  
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits. Refer to sample result forms for details.

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



# **SAMPLE RESULTS**

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

```

=====
Client   : ECO & ASSOCIATES, INC.
Project  : B & B MONTHLY CITY WELL SAMPLING
Batch No.: 12H184
Sample ID: 08-27-12-CW-1
Lab Samp ID: H184-01
Lab File ID: RHW310
Ext Btch ID: V006H15
Calib. Ref.: RHW008

Date Collected: 08/27/12
Date Received: 08/27/12
Date Extracted: 08/30/12 18:06
Date Analyzed: 08/30/12 18:06
Dilution Factor: 1
Matrix : WATER
% Moisture : NA
Instrument ID : 06
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	1.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	0.50	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	1.0	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	1.0	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	1.0	5.0
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M, P-XYLENES	ND	1.0	0.40
MIBK	ND	1.0	4.0
METHYLENE CHLORIDE	ND	1.0	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
FREON113	ND	1.0	0.30
VINYL ACETATE	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	11.3	10.00	113	70-120
4-BROMOFLUOROBENZENE	9.70	10.00	97.0	75-120
TOLUENE-D8	10.9	10.00	109	85-120
DIBROMOFLUOROMETHANE	10.8	10.00	108	85-115

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

```

=====
Client      : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project     : B & B MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.   : 12H184                          Date Extracted: 08/30/12 18:36
Sample ID   : 08-27-12-CW-5                   Date Analyzed: 08/30/12 18:36
Lab Samp ID : H184-02                          Dilution Factor: 1
Lab File ID : RHW311                           Matrix: WATER
Ext Btch ID: V006H15                          % Moisture: NA
Calib. Ref.: RHW008                           Instrument ID: 06
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	1.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	0.50	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.50
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	1.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	1.0	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
FREON113	ND	1.0	0.50
VINYL ACETATE	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	11.3	10.00	113	70-120
4-BROMOFLUOROBENZENE	9.82	10.00	98.2	75-120
TOLUENE-D8	10.7	10.00	107	85-120
DIBROMOFLUOROMETHANE	11.0	10.00	110	85-115

Data File : D:\HPCHEM\1\DATA\12H30\RHW311.D  
 Acq On : 30 Aug 2012 6:36 pm  
 Sample : 12H184-02 25mL  
 Misc : DF=1.0

Vial: 14  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 31 10:49 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1727669	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1467382	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	530487	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.67	111	571961	10.97	ug/l	0.00
Spiked Amount	10.000					
			Recovery	=	109.70%	
38) 1,2-Dichloroethane-d4	8.50	65	490272	11.25	ug/l	0.00
Spiked Amount	10.000					
			Recovery	=	112.50%	
54) Toluene-d8	11.62	98	2005984	10.71	ug/l	0.00
Spiked Amount	10.000					
			Recovery	=	107.10%	
76) 4-Bromofluorobenzene	16.05	95	648390	9.82	ug/l	0.00
Spiked Amount	10.000					
			Recovery	=	98.20%	

Target Compounds

Qvalue

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

RHW311.D VO06H15.M Fri Aug 31 10:50:03 2012

Page 1

2006

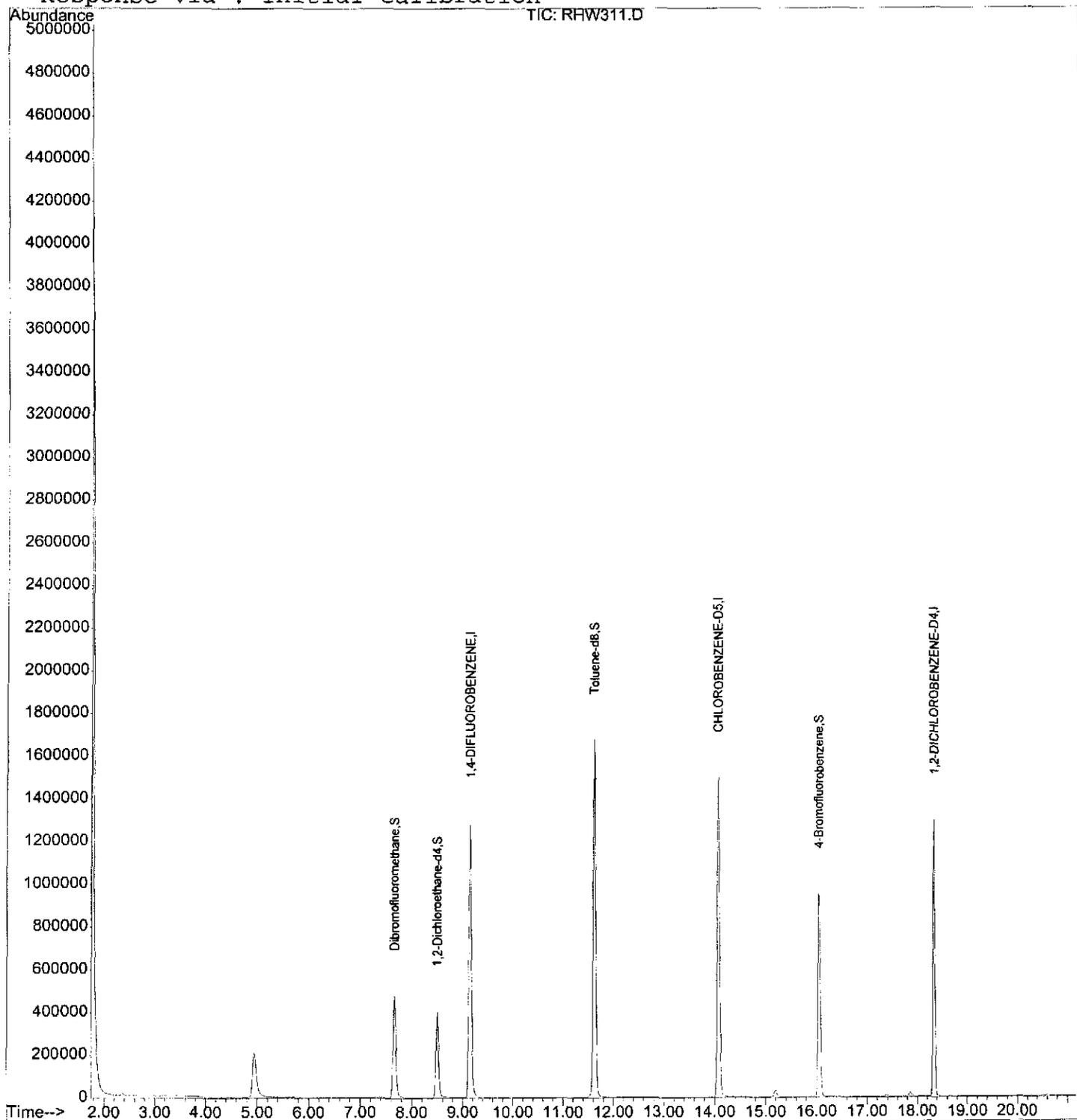
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H30\RHW311.D  
Acq On : 30 Aug 2012 6:36 pm  
Sample : 12H184-02 25mL  
Misc : DF=1.0  
MS Integration Params: RTE.P  
Quant Time: Aug 31 10:49 2012

Vial: 14  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



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

```

=====
Client   : ECD & ASSOCIATES, INC.
Project  : B & B MONTHLY CITY WELL SAMPLING
Batch No.: 12H184
Sample ID: 08-27-12-CW-6
Lab Samp ID: H184-03
Lab File ID: RHW304
Ext Btch ID: V006H15
Calib. Ref.: RHW008

Date Collected: 08/27/12
Date Received: 08/27/12
Date Extracted: 08/30/12 15:05
Date Analyzed: 08/30/12 15:05
Dilution Factor: 1
Matrix : WATER
% Moisture : NA
Instrument ID : 06
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	1.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	0.50	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	1.0	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	1.0	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	1.0	5.0
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M, P-XYLENES	ND	1.0	0.40
MIBK	ND	1.0	4.0
METHYLENE CHLORIDE	ND	1.0	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	0.30	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
FREON113	ND	1.0	0.30
VINYL ACETATE	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.8	10.00	108	70-120
4-BROMOFLUOROBENZENE	9.98	10.00	99.8	75-120
TOLUENE-DB	10.7	10.00	107	85-120
DIBROMOFLUOROMETHANE	10.7	10.00	107	85-115

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

```

=====
Client      : ECO & ASSOCIATES, INC.
Project     : 6 & B MONTHLY CITY WELL SAMPLING
Batch No.   : 12H184
Sample ID   : 08-27-12-CW-8
Lab Samp ID: H184-04
Lab File ID: RHW312
Ext Btch ID: V006H15
Calib. Ref.: RHW008

Date Collected: 08/27/12
Date Received: 08/27/12
Date Extracted: 08/30/12 19:07
Date Analyzed: 08/30/12 19:07
Dilution Factor: 1
Matrix      : WATER
% Moisture  : NA
Instrument ID: 06
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20	
1,1,1-TRICHLOROETHANE	ND	1.0	0.20	
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20	
1,1,2-TRICHLOROETHANE	ND	1.0	0.20	
1,1-DICHLOROETHANE	ND	1.0	0.20	
1,1-DICHLOROETHENE	ND	1.0	0.20	
1,1-DICHLOROPROPENE	ND	1.0	0.20	
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30	
1,2,3-TRICHLOROPROPANE	ND	1.0	0.50	
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30	
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.50	
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.0	0.50	
1,2-DIBROMOETHANE	ND	1.0	0.20	
1,2-DICHLOROBENZENE	ND	1.0	0.20	
1,2-DICHLOROETHANE	ND	1.0	0.20	
1,2-DICHLOROPROPANE	ND	1.0	0.20	
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20	
1,3-DICHLOROBENZENE	ND	1.0	0.20	
1,3-DICHLOROPROPANE	0.54	0.50	0.20	
1,4-DICHLOROBENZENE	ND	1.0	0.20	
2,2-DICHLOROPROPANE	ND	1.0	0.20	
2-BUTANONE	ND	1.0	4.0	
2-CHLOROTOLUENE	ND	1.0	0.20	
2-HEXANONE	ND	1.0	4.0	
4-CHLOROTOLUENE	ND	1.0	0.20	
ACETONE	ND	1.0	5.0	
BENZENE	0.54	1.0	0.20	
BROMOBENZENE	ND	1.0	0.20	
BROMOCHLOROMETHANE	ND	1.0	0.20	
BROMODICHLOROMETHANE	ND	1.0	0.20	
BROMOFORM	ND	1.0	0.30	
BROMOMETHANE	ND	1.0	0.30	
CARBON DISULFIDE	ND	1.0	0.20	
CARBON TETRACHLORIDE	ND	1.0	0.20	
CHLOROBENZENE	ND	1.0	0.20	
CHLOROETHANE	ND	1.0	0.30	
CHLOROFORM	ND	1.0	0.20	
CHLOROMETHANE	ND	1.0	0.30	
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20	
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20	
DIBROMOCHLOROMETHANE	ND	1.0	0.20	
DIBROMOMETHANE	ND	1.0	0.20	
DICHLORODIFLUOROMETHANE	ND	1.0	0.30	
ETHYLBENZENE	ND	1.0	0.20	
HEXACHLOROBUTADIENE	ND	1.0	0.30	
ISOPROPYL BENZENE	ND	1.0	0.20	
M, P-XYLENES	ND	1.0	0.40	
MIBK	ND	1.0	4.0	
METHYLENE CHLORIDE	ND	1.0	0.50	
MTBE	ND	1.0	0.20	
NAPHTHALENE	ND	1.0	0.50	
N-BUTYLBENZENE	ND	1.0	0.20	
N-PROPYLBENZENE	ND	1.0	0.20	
O-XYLENE	ND	1.0	0.20	
P-ISOPROPYLTOLUENE	ND	1.0	0.20	
SEC-BUTYLBENZENE	ND	1.0	0.20	
STYRENE	ND	1.0	0.20	
TERT-BUTYLBENZENE	ND	1.0	0.20	
TETRACHLOROETHENE	ND	1.0	0.20	
TOLUENE	ND	1.0	0.20	
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20	
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20	
TRICHLOROETHENE	ND	1.0	0.20	
TRICHLOROFLUOROMETHANE	ND	1.0	0.30	
VINYL CHLORIDE	ND	1.0	0.20	
FREON113	ND	1.0	0.50	
VINYL ACETATE	ND	2.0	0.50	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	11.1	10.00	111	70-120
4-BROMOFLUOROBENZENE	9.93	10.00	99.3	75-120
TOLUENE-D8	10.8	10.00	108	85-120
DIBROMOFLUOROMETHANE	10.9	10.00	109	85-115

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

```

=====
Client   : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project  : B & B MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.: 12H184                          Date Extracted: 08/30/12 19:38
Sample ID: 08-27-12-CW-9                   Date Analyzed: 08/30/12 19:38
Lab Samp ID: H184-05                       Dilution Factor: 1
Lab File ID: RHW313                        Matrix: WATER
Ext Btch ID: V006H15                       % Moisture: NA
Calib. Ref.: RHW008                        Instrument ID: 06
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	1.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	0.39J	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	0.50	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	1.0	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	1.0	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	1.0	5.0
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.20
BROMOMETHANE	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	1.0	0.40
MIBK	ND	1.0	4.0
METHYLENE CHLORIDE	ND	1.0	0.50
MTBE	ND	1.0	0.50
NAPHTHALENE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	3.8	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
FREON113	ND	1.0	0.30
VINYL ACETATE	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	11.3	10.00	113	70-120
4-BROMOFLUOROBENZENE	9.88	10.00	98.8	75-120
TOLUENE-D8	10.9	10.00	109	85-120
DIBROMOFLUOROMETHANE	11.1	10.00	111	85-115

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

```

=====
Client   : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project  : B & B MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.: 12H184                          Date Extracted: 08/30/12 20:08
Sample ID: 08-27-12-CW-10                  Date Analyzed: 08/30/12 20:08
Lab Samp ID: H184-06                       Dilution Factor: 1
Lab File ID: RHW314                        Matrix: WATER
Ext Btch ID: V006H15                       % Moisture: NA
Calib. Ref.: RHW008                        Instrument ID: 06
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	1.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	0.50	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	1.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	1.0	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
FREON113	ND	1.0	0.30
VINYL ACETATE	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	11.7	10.00	117	70-120
4-BROMOFLUOROBENZENE	9.76	10.00	97.6	75-120
TOLUENE-D8	10.9	10.00	109	85-120
DIBROMOFLUOROMETHANE	11.2	10.00	112	85-115

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

```

=====
Client   : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project  : B & B MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.: 12H184                          Date Extracted: 08/30/12 20:38
Sample ID: 08-27-12-FDUP-1                 Date Analyzed: 08/30/12 20:38
Lab Samp ID: H184-07                       Dilution Factor: 1
Lab File ID: RHW315                         Matrix: WATER
Ext Btch ID: V006H15                       % Moisture: NA
Calib. Ref.: RHW008                         Instrument ID: 06
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	1.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	0.50	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	1.0	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	1.0	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	1.0	5.0
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M, P-XYLENES	ND	1.0	0.40
MIBK	ND	1.0	4.0
METHYLENE CHLORIDE	ND	1.0	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
FREON113	ND	1.0	0.30
VINYL ACETATE	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	11.8	10.00	118	70-120
4-BROMOFLUOROBENZENE	10.1	10.00	101	75-120
TOLUENE-D8	10.7	10.00	107	85-120
DIBROMOFLUOROMETHANE	11.3	10.00	113	85-115

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

```

=====
Client   : ECO & ASSOCIATES, INC.
Project  : B & B MONTHLY CITY WELL SAMPLING
Batch No.: 12H184
Sample ID: 08-27-12-TB-1
Lab Samp ID: H184-08
Lab File ID: RHW308
Ext Btch ID: V006H15
Calib. Ref.: RHW008

Date Collected: 08/27/12
Date Received: 08/27/12
Date Extracted: 08/30/12 17:06
Date Analyzed: 08/30/12 17:06
Dilution Factor: 1
Matrix : WATER
% Moisture : NA
Instrument ID : 06
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	1.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	0.50	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	1.0	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	1.0	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	1.0	5.0
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M, P-XYLENES	ND	1.0	0.40
MIBK	ND	1.0	4.0
METHYLENE CHLORIDE	ND	1.0	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
FREON113	ND	1.0	0.30
VINYL ACETATE	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	11.1	10.00	111	70-120
4-BROMOFLUOROBENZENE	10.0	10.00	100	75-120
TOLUENE-D8	10.8	10.00	108	85-120
DIBROMOFLUOROMETHANE	11.1	10.00	111	85-115

# **QC SUMMARIES**

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

```

=====
Client   : ECO & ASSOCIATES, INC.
Project  : B & B MONTHLY CITY WELL SAMPLING
Batch No.: 12H184
Sample ID: MBLK1W
Lab Samp ID: V006H15B
Lab File ID: RHW303
Ext Btch ID: V006H15
Calib. Ref.: RHW008
Date Collected: NA
Date Received: 08/30/12
Date Extracted: 08/30/12 14:35
Date Analyzed: 08/30/12 14:35
Dilution Factor: 1
Matrix : WATER
% Moisture : NA
Instrument ID : 06
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	1.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	1.0	0.50
1,2-DIBROMOETHANE	ND	1.0	0.20
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	0.50	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-CHLOROTOLUENE	ND	1.0	0.20
2-HEXANONE	ND	10	4.0
4-CHLOROTOLUENE	ND	1.0	0.20
ACETONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENES	ND	1.0	0.40
MIBK	ND	10	4.0
METHYLENE CHLORIDE	ND	1.0	0.50
MTBE	ND	1.0	0.20
NAPHTHALENE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
FREON113	ND	1.0	0.30
VINYL ACETATE	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.4	10.00	104	70-120
4-BROMOFLUOROBENZENE	9.86	10.00	98.6	75-120
TOLUENE-D8	10.8	10.00	108	85-120
DIBROMOFLUOROMETHANE	10.6	10.00	106	85-115

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: ECO & ASSOCIATES, INC.  
PROJECT: B & B MONTHLY CITY WELL SAMPLING  
BATCH NO.: 12H184  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: V006H15B V006H15L V006H15C  
LAB FILE ID: RHW303 RHW300 RHW301  
DATE EXTRACTED: 08/30/12 14:35 08/30/12 13:05 08/30/12 13:35 DATE COLLECTED: NA  
DATE ANALYZED: 08/30/12 14:35 08/30/12 13:05 08/30/12 13:35 DATE RECEIVED: 08/30/12  
PREP. BATCH: V006H15 V006H15 V006H15  
CALIB. REF: RHW008 RHW008 RHW008

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1,2-Tetrachloroethane	ND	10.0	9.74	97	10.0	10.3	103	5	80-130	30
1,1,1-Trichloroethane	ND	10.0	10.6	106	10.0	10.3	103	3	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.60	96	10.0	9.96	100	4	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.67	97	10.0	10.1	101	4	75-125	30
1,1-Dichloroethane	ND	10.0	10.3	103	10.0	10.0	100	4	70-135	30
1,1-Dichloroethene	ND	10.0	10.2	102	10.0	9.86	99	3	70-130	30
1,1-Dichloropropene	ND	10.0	10.4	104	10.0	10.5	105	3	75-130	30
1,2,3-Trichlorobenzene	ND	10.0	7.60	76	10.0	8.31	83	9	55-140	30
1,2,3-Trichloropropane	ND	10.0	9.47	95	10.0	9.41	94	1	75-125	30
1,2,4-Trichlorobenzene	ND	10.0	8.26	83	10.0	9.00	90	9	65-135	30
1,2,4-Trimethylbenzene	ND	10.0	10.3	103	10.0	10.5	105	1	75-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	7.68	77	10.0	8.41	84	6	50-130	30
1,2-Dibromoethane	ND	10.0	9.29	93	10.0	9.84	98	6	80-120	30
1,2-Dichlorobenzene	ND	10.0	9.67	97	10.0	9.84	98	6	70-130	30
1,2-Dichloroethane	ND	10.0	10.0	100	10.0	10.3	103	1	75-125	30
1,2-Dichloropropane	ND	10.0	9.81	98	10.0	10.6	106	1	75-125	30
1,3,5-Trimethylbenzene	ND	10.0	10.2	102	10.0	10.1	101	0	75-130	30
1,3-Dichlorobenzene	ND	10.0	9.84	98	10.0	9.88	99	2	75-125	30
1,3-Dichloropropane	ND	10.0	9.20	92	10.0	9.82	98	2	75-125	30
1,4-Dichlorobenzene	ND	10.0	9.86	99	10.0	10.1	101	1	75-125	30
2,2-Dichloropropane	ND	10.0	10.9	109	10.0	10.7	107	1	70-135	30
2-Butanone	ND	50.0	41.7	83	50.0	46.3	93	10	30-150	30
2-Chlorotoluene	ND	10.0	9.89	99	10.0	9.71	97	2	75-125	30
2-Hexanone	ND	50.0	47.9	96	50.0	53.0	106	10	55-150	30
4-Chlorotoluene	ND	10.0	10.3	103	10.0	10.4	104	1	75-130	30
Acetone	ND	50.0	44.0	88	50.0	48.1	96	9	40-140	30
Benzene	ND	10.0	9.94	99	10.0	10.2	102	9	80-120	30
Bromobenzene	ND	10.0	9.62	96	10.0	9.61	96	0	75-125	30
Bromochloromethane	ND	10.0	9.56	96	10.0	10.0	100	0	65-130	30
Bromodichloromethane	ND	10.0	9.71	97	10.0	10.2	102	5	75-120	30
Bromoform	ND	10.0	8.64	86	10.0	8.83	88	5	70-130	30
Bromomethane	ND	10.0	9.96	100	10.0	9.91	99	0	30-145	30
Carbon Disulfide	ND	10.0	9.10	91	10.0	9.33	93	0	35-160	30
Carbon Tetrachloride	ND	10.0	10.5	105	10.0	10.4	104	0	65-140	30
Chlorobenzene	ND	10.0	9.83	98	10.0	10.4	104	6	80-120	30
Chloroethane	ND	10.0	9.75	98	10.0	9.88	99	1	60-135	30
Chloroform	ND	10.0	10.1	101	10.0	10.4	104	1	65-135	30
Chloromethane	ND	10.0	8.84	88	10.0	9.15	92	3	40-125	30
cis-1,2-Dichloroethene	ND	10.0	8.98	90	10.0	9.04	90	3	70-125	30
cis-1,3-Dichloropropene	ND	10.0	9.94	99	10.0	10.6	106	7	70-130	30
Dibromochloromethane	ND	10.0	9.30	93	10.0	9.75	98	5	60-135	30
Dibromomethane	ND	10.0	9.37	94	10.0	10.3	103	5	75-125	30
Dichlorodifluoromethane	ND	10.0	8.93	89	10.0	8.81	88	1	30-155	30
Ethylbenzene	ND	10.0	10.1	101	10.0	10.4	104	1	75-125	30
Hexachlorobutadiene	ND	10.0	8.98	90	10.0	9.40	94	3	50-140	30
Isopropyl Benzene	ND	10.0	11.3	113	10.0	10.9	109	3	75-125	30
m,p-Xylenes	ND	20.0	19.4	97	20.0	20.0	100	3	75-130	30
MIBK	ND	50.0	47.7	95	50.0	51.7	103	3	60-135	30
Methylene Chloride	ND	10.0	11.0	110	10.0	11.3	113	3	55-140	30
MTBE	ND	10.0	9.37	94	10.0	10.0	100	3	65-125	30
Naphthalene	ND	10.0	7.92	79	10.0	8.82	88	1	55-140	30
n-Butylbenzene	ND	10.0	10.7	107	10.0	10.4	104	1	70-135	30
n-Propylbenzene	ND	10.0	10.5	105	10.0	10.2	102	1	70-130	30
o-Xylene	ND	10.0	9.90	99	10.0	10.1	101	1	80-120	30
p-Isopropyltoluene	ND	10.0	10.7	107	10.0	10.5	105	1	75-130	30
Sec-Butylbenzene	ND	10.0	10.5	105	10.0	10.2	102	1	70-125	30
Styrene	ND	10.0	10.3	103	10.0	10.6	106	1	65-135	30
Tert-Butylbenzene	ND	10.0	9.87	99	10.0	9.75	97	1	70-130	30
Tetrachloroethene	ND	10.0	10.1	101	10.0	10.3	103	2	45-150	30
Toluene	ND	10.0	9.83	98	10.0	10.1	101	2	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.1	101	10.0	9.78	98	1	60-140	30
Trans-1,3-Dichloropropene	ND	10.0	10.2	102	10.0	9.78	98	1	55-140	30
Trichloroethene	ND	10.0	10.1	101	10.0	10.5	105	1	70-125	30
Trichlorofluoromethane	ND	10.0	10.1	101	10.0	10.2	102	1	70-125	30
Vinyl Chloride	ND	10.0	9.99	100	10.0	9.89	99	1	60-145	30
Vinyl Chloride	ND	10.0	9.59	96	10.0	9.47	95	1	50-145	30
Freon113	ND	10.0	10.8	108	10.0	10.4	104	3	65-135	30
Vinyl Acetate	ND	10.0	9.51	95	10.0	9.90	99	4	65-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.3	103	10.0	10.0	100	70-120
4-Bromofluorobenzene	10.0	10.6	106	10.0	10.5	105	75-120
Toluene-d8	10.0	11.0	110	10.0	10.8	108	85-120
Dibromofluoromethane	10.0	10.6	106	10.0	10.4	104	85-115

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: ECO & ASSOCIATES, INC.  
PROJECT: B & B, MONTHLY CITY WELL SAMPLING  
BATCH NO.: 12H184  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: 08-27-12-CW-6  
LAB Samp ID: H184-03 H184-03M H184-03S  
LAB FILE ID: RHW304 RHW305 RHW306  
DATE EXTRACTED: 08/30/12 15:05 08/30/12 15:35 08/30/12 16:05 DATE COLLECTED: 08/27/12  
DATE ANALYZED: 08/30/12 15:05 08/30/12 15:35 08/30/12 16:05 DATE RECEIVED: 08/27/12  
PREP. BATCH: V006H15 V006H15 V006H15  
CALIB. REF: RHW008 RHW008 RHW008

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1,2-Tetrachloroethane	ND	10.0	10.7	107	10.0	9.66	97	10	80-130	30
1,1,1-Trichloroethane	ND	10.0	11.1	111	10.0	10.2	102	9	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	10.5	105	10.0	10.3	103	2	65-130	30
1,1,2-Trichloroethane	ND	10.0	10.6	106	10.0	9.80	98	7	75-125	30
1,1-Dichloroethane	ND	10.0	10.8	108	10.0	9.99	100	8	70-135	30
1,1-Dichloropropene	ND	10.0	11.0	110	10.0	9.94	99	10	70-130	30
1,1-Dichloroethane	ND	10.0	10.7	107	10.0	9.65	96	11	75-130	30
1,2,3-Trichlorobenzene	ND	10.0	8.56	86	10.0	7.58	76	12	55-140	30
1,2,3-Trichloropropene	ND	10.0	10.3	103	10.0	10.1	101	2	75-125	30
1,2,4-Trichlorobenzene	ND	10.0	8.96	90	10.0	7.90	79	13	65-135	30
1,2,4-Trimethylbenzene	ND	10.0	10.7	107	10.0	9.89	99	8	75-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	8.96	90	10.0	8.80	88	2	50-130	30
1,2-Dibromoethane	ND	10.0	10.4	104	10.0	9.74	97	2	80-120	30
1,2-Dichlorobenzene	ND	10.0	10.2	102	10.0	9.62	96	6	70-120	30
1,2-Dichloroethane	ND	10.0	10.5	105	10.0	9.79	98	6	70-130	30
1,2-Dichloropropene	ND	10.0	10.9	109	10.0	10.3	103	6	75-125	30
1,3,5-Trimethylbenzene	ND	10.0	10.7	107	10.0	9.95	100	6	75-130	30
1,3-Dichlorobenzene	ND	10.0	10.3	103	10.0	9.71	97	6	75-125	30
1,3-Dichloropropene	ND	10.0	10.3	103	10.0	9.96	100	4	75-125	30
1,4-Dichlorobenzene	ND	10.0	10.5	105	10.0	9.79	98	7	75-125	30
2,2-Dichloropropene	ND	10.0	11.6	116	10.0	10.4	104	10	70-135	30
2-Butanone	ND	50.0	46.0	92	50.0	44.5	89	4	30-150	30
2-Chlorotoluene	ND	10.0	10.5	105	10.0	9.75	97	4	75-125	30
2-Hexanone	ND	50.0	50.7	101	50.0	49.9	100	4	75-130	30
4-Chlorotoluene	ND	10.0	10.7	107	10.0	10.2	102	4	75-130	30
Acetone	ND	50.0	45.1	90	50.0	45.8	92	4	60-140	30
Benzene	ND	10.0	10.6	106	10.0	9.74	97	6	80-120	30
Bromobenzene	ND	10.0	10.2	102	10.0	9.71	97	6	75-125	30
Bromochloromethane	ND	10.0	10.6	106	10.0	10.1	101	5	65-130	30
Bromodichloromethane	ND	10.0	10.9	109	10.0	10.0	100	5	75-120	30
Bromoform	ND	10.0	9.04	90	10.0	9.04	90	8	70-130	30
Bromomethane	ND	10.0	10.8	108	10.0	10.2	102	6	30-145	30
Carbon Disulfide	ND	10.0	10.1	101	10.0	9.25	92	6	35-160	30
Carbon Tetrachloride	ND	10.0	11.1	111	10.0	9.85	98	12	65-140	30
Chlorobenzene	ND	10.0	10.6	106	10.0	9.56	96	11	80-120	30
Chloroethane	ND	10.0	10.9	109	10.0	9.73	97	11	60-135	30
Chloroform	ND	10.0	10.4	104	10.0	9.91	99	5	65-135	30
Chloromethane	ND	10.0	9.84	98	10.0	9.35	93	5	40-125	30
cis-1,2-Dichloroethene	ND	10.0	10.7	107	10.0	9.82	98	9	70-125	30
cis-1,3-Dichloropropene	ND	10.0	10.8	108	10.0	9.91	99	9	70-130	30
Dibromochloromethane	ND	10.0	10.3	103	10.0	9.76	98	6	60-135	30
Dibromomethane	ND	10.0	10.5	105	10.0	9.68	97	6	75-125	30
Dichlorodifluoromethane	ND	10.0	9.88	99	10.0	8.99	90	6	30-155	30
Ethylbenzene	ND	10.0	10.9	109	10.0	9.51	95	13	75-125	30
Hexachlorobutadiene	ND	10.0	9.71	97	10.0	7.73	77	23	50-140	30
Isopropyl Benzene	ND	10.0	10.8	108	10.0	9.89	99	9	75-125	30
m,p-Xylenes	ND	20.0	21.1	106	20.0	18.6	93	12	75-130	30
MIBK	ND	50.0	46.2	92	50.0	44.5	89	4	60-135	30
Methylene Chloride	ND	10.0	11.3	113	10.0	10.5	105	4	55-140	30
MTBE	ND	10.0	10.3	103	10.0	10.1	101	1	65-125	30
Naphthalene	ND	10.0	9.01	90	10.0	8.55	86	5	55-140	30
n-Butylbenzene	ND	10.0	10.9	109	10.0	9.50	95	14	70-135	30
n-Propylbenzene	ND	10.0	10.8	108	10.0	10.1	101	7	70-130	30
o-Xylene	ND	10.0	11.1	111	10.0	9.94	99	11	80-120	30
p-Isopropyltoluene	ND	10.0	10.8	108	10.0	9.79	98	8	75-130	30
Sec-Butylbenzene	ND	10.0	11.0	110	10.0	9.70	97	12	70-125	30
Styrene	ND	10.0	10.9	109	10.0	9.70	97	12	65-135	30
Tert-Butylbenzene	ND	10.0	10.6	106	10.0	9.71	97	8	70-130	30
Tetrachloroethane	0.296J	10.0	10.6	103	10.0	9.57	91	12	45-150	30
Toluene	ND	10.0	10.7	107	10.0	9.74	97	9	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.9	109	10.0	10.1	101	7	60-140	30
Trans-1,3-Dichloropropene	ND	10.0	10.5	105	10.0	9.86	99	6	55-140	30
Trichloroethene	ND	10.0	10.4	104	10.0	9.42	94	10	70-125	30
Trichlorofluoromethane	ND	10.0	10.9	109	10.0	10.0	100	8	60-145	30
Vinyl Chloride	ND	10.0	10.4	104	10.0	9.36	94	11	50-145	30
Freon113	ND	10.0	10.5	105	10.0	9.72	97	18	65-135	30
Vinyl Acetate	ND	10.0	9.23	92	10.0	9.10	91	1	65-135	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.5	105	10.0	10.7	107	70-120
4-Bromofluorobenzene	10.0	10.3	103	10.0	10.7	107	75-120
Toluene-d8	10.0	10.9	109	10.0	10.6	106	85-120
Dibromofluoromethane	10.0	10.6	106	10.0	10.7	107	85-115

# QC DATA

Data File : D:\HPCHEM\1\DATA\12H30\RH303.D  
 Acq On : 30 Aug 2012 2:35 pm  
 Sample : VO06H15B 25mL  
 Misc : BLANK  
 MS Integration Params: RTE.P  
 Quant Time: Aug 30 15:12 2012

Vial: 6  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1902452	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.09	117	1585876	10.00	ug/l	0.02
72) 1,2-DICHLOROBENZENE-D4	18.34	152	565506	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.66	111	611025	10.64	ug/l	0.00
Spiked Amount	10.000		Recovery	=	106.40%	
38) 1,2-Dichloroethane-d4	8.49	65	500063	10.42	ug/l	0.00
Spiked Amount	10.000		Recovery	=	104.20%	
54) Toluene-d8	11.63	98	2177433	10.76	ug/l	0.02
Spiked Amount	10.000		Recovery	=	107.60%	
76) 4-Bromofluorobenzene	16.06	95	693759	9.86	ug/l	0.02
Spiked Amount	10.000		Recovery	=	98.60%	

Target Compounds

Qvalue

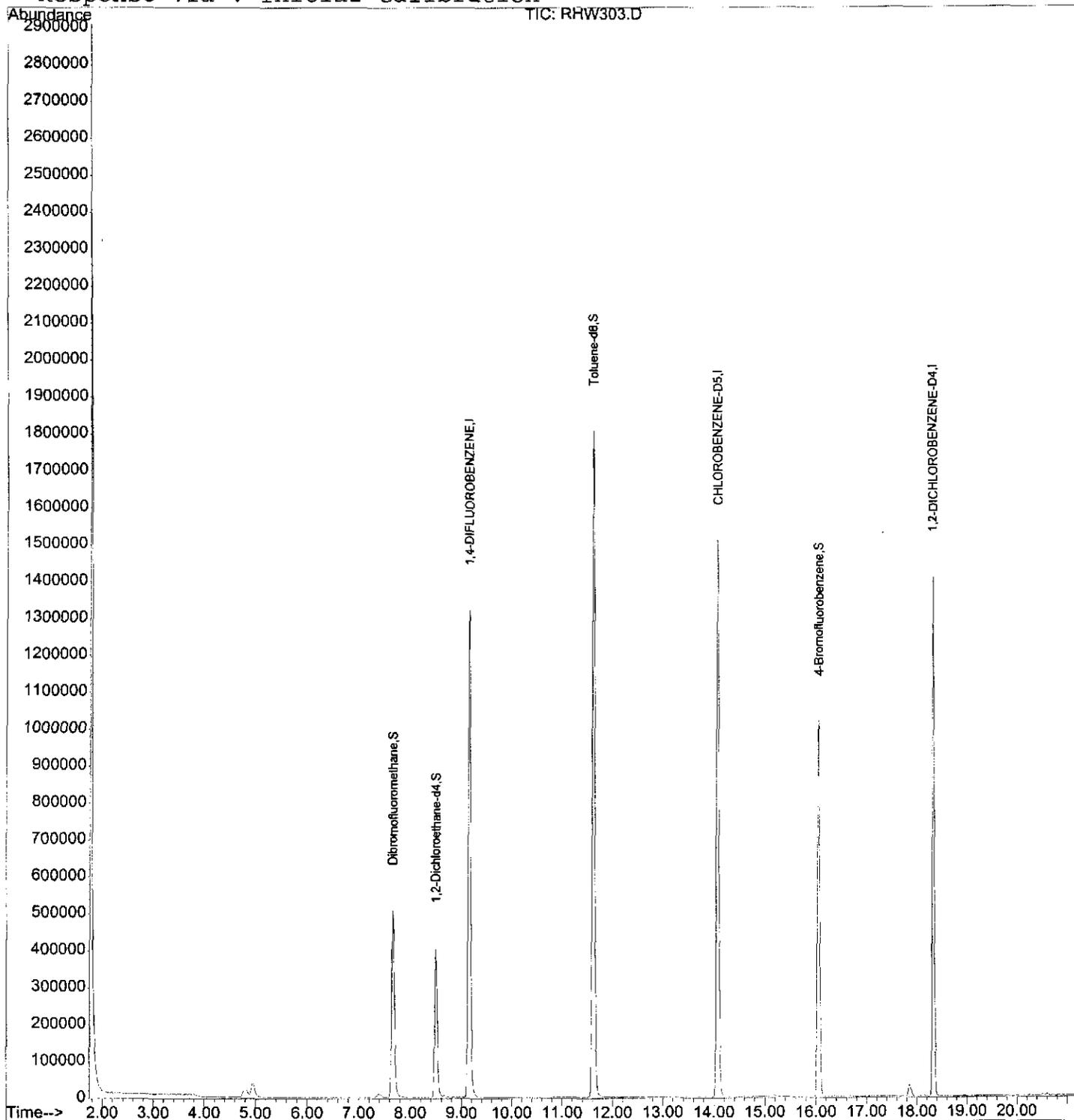
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H30\RH303.D  
Acq On : 30 Aug 2012 2:35 pm  
Sample : VO06H15B 25mL  
Misc : BLANK  
MS Integration Params: RTE.P  
Quant Time: Aug 30 15:12 2012

Vial: 6  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\12H30\RHW300.D  
 Acq On : 30 Aug 2012 1:05 pm  
 Sample : VO06H15L  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 30 15:13 2012

Vial: 3  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1845728 ✓	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1545133 ✓	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	509204 ✓	10.00	ug/l	0.00

#### System Monitoring Compounds

34) Dibromofluoromethane	7.66	111	591915	10.62	ug/l	0.00
Spiked Amount	10.000		Recovery	= 106.20% ✓		
38) 1,2-Dichloroethane-d4	8.50	65	477445	10.26	ug/l	0.00
Spiked Amount	10.000		Recovery	= 102.60% ✓		
54) Toluene-d8	11.62	98	2159214	10.95	ug/l	0.00
Spiked Amount	10.000		Recovery	= 109.50% ✓		
76) 4-Bromofluorobenzene	16.06	95	671006	10.59	ug/l	0.02
Spiked Amount	10.000		Recovery	= 105.90% ✓		

#### Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	425216	8.93	ug/l	99
3) Chloromethane	2.15	50	505826	8.84	ug/l	100
4) Vinyl chloride	2.30	62	412142	9.59	ug/l	99
5) Bromomethane	2.82	94	342748	9.96	ug/l	99
6) Chloroethane	2.94	64	286442	9.75	ug/l	99
7) Dichlorofluoromethane	2.96	67	960331	9.48	ug/l	99
8) Trichlorofluoromethane	3.23	101	655181	9.99	ug/l	99
9) Acrolein	3.78	56	138702	61.17	ug/l	95
10) 1,1,2-Trichloro-1,2,2-trif	3.84	151	333853	10.76	ug/l	99
11) Acetone	3.86	43	276651	44.01	ug/l	99
12) 1,1-Dichloroethene	4.07	61	988023	10.19	ug/l	99
13) tert-Butyl alcohol	4.17	59	81036	45.42	ug/l	99
16) Iodomethane	4.54	142	947349	11.39	ug/l	99
17) Methylene chloride	4.76	49	732425	11.01	ug/l	97
18) Carbon disulfide	4.79	76	1803175	9.10	ug/l	100
19) Acrylonitrile	4.97	53	355404	45.00	ug/l	99
20) tert-Butyl methyl ether (M	5.02	73	812940	9.37	ug/l	99
21) trans-1,2-Dichloroethene	5.24	61	1034794	10.07	ug/l	100
22) Isopropyl ether (DIPE)	5.80	45	2005643	10.04	ug/l	99
23) Vinyl acetate	6.01	43	660006	9.51	ug/l	100
24) 1,1-Dichloroethane	5.98	63	1215286	10.34	ug/l	99
26) tert-Butyl ethyl ether (ET	6.52	59	1411392	9.67	ug/l	100
27) 2-Butanone	6.73	43	486022	41.66	ug/l	100
28) 2,2-Dichloropropane	6.95	77	642130	10.90	ug/l	99
29) cis-1,2-Dichloroethene	7.02	96	605748	8.98	ug/l	99
30) Chloroform	7.29	83	1073625	10.06	ug/l	99
32) Bromochloromethane	7.56	49	449226	9.56	ug/l	96

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

Data File : D:\HPCHEM\1\DATA\12H30\RHW300.D  
 Acq On : 30 Aug 2012 1:05 pm  
 Sample : VO06H15L  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 30 15:13 2012

Vial: 3  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) Tetrahydrofuran	7.62	42	65179	8.52	ug/l	98
35) 1,1,1-Trichloroethane	7.96	97	919570	10.59	ug/l	91
37) tert-Amyl methyl ether (TA)	8.44	87	221791	9.75	ug/l	98
41) 1,1-Dichloropropene	8.23	110	312204	10.39	ug/l	98
42) Carbon tetrachloride	8.38	119	818470	10.47	ug/l	99
43) 1,2-Dichloroethane	8.66	62	569091	10.03	ug/l	99
44) Benzene	8.66	78	2321216	9.94	ug/l	99
45) Trichloroethene	9.67	130	673799	10.10	ug/l	98
47) 1,2-Dichloropropane	9.97	63	581456	9.81	ug/l	99
48) 1,4-Dioxane	10.40	88	34584	188.35	ug/l	98
49) Bromodichloromethane	10.34	83	698949	9.71	ug/l	99
50) Dibromomethane	10.43	93	241072	9.37	ug/l	97
51) 2-Chloroethyl vinyl ether	10.87	63	182901	9.56	ug/l	99
52) 4-Methyl-2-pentanone	10.92	43	1456134	47.66	ug/l	100
53) cis-1,3-Dichloropropene	11.25	75	827159	9.94	ug/l	100
55) Toluene	11.75	91	2378049	9.83	ug/l	99
56) Ethyl methacrylate	12.05	69	392352	9.89	ug/l	98
57) trans-1,3-Dichloropropene	12.06	75	620623	10.18	ug/l	97
58) 1,1,2-Trichloroethane	12.30	97	293815	9.67	ug/l	99
59) 2-Hexanone	12.32	43	871478	47.93	ug/l	99
60) 1,3-Dichloropropane	12.72	76	581959	9.20	ug/l	99
61) Tetrachloroethene	12.81	164	529709	10.07	ug/l	99
62) Dibromochloromethane	13.13	129	381089	9.30	ug/l	100
64) 1,2-Dibromoethane	13.46	107	294083	9.29	ug/l	100
65) 1-Chlorohexane	13.73	91	1081734	10.61	ug/l	100
66) Chlorobenzene	14.15	112	1426091	9.83	ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.22	131	447810	9.75	ug/l	99
68) Ethylbenzene	14.22	91	2734477	10.06	ug/l	100
69) m-Xylene & p-Xylene	14.35	91	4051249	19.41	ug/l	99
70) o-Xylene	15.05	91	2067434	9.90	ug/l	99
71) Styrene	15.11	104	1485915	10.29	ug/l	100
73) Isopropylbenzene	15.65	105	2688239	11.27	ug/l	99
74) Bromoform	15.68	173	169797	8.64	ug/l	100
75) 1,1,2,2-Tetrachloroethane	15.93	83	305668	9.60	ug/l	99
77) 1,2,3-Trichloropropane	16.17	110	80806	9.47	ug/l	99
78) trans-1,4-Dichloro-2-buten	16.29	53	89457	9.34	ug/l	96
79) n-Propylbenzene	16.30	91	3347314	10.51	ug/l	100
80) Bromobenzene	16.38	156	477783	9.62	ug/l	96
81) 1,3,5-Trimethylbenzene	16.55	105	1959513	10.23	ug/l	100
82) 2-Chlorotoluene	16.60	91	1963443	9.89	ug/l	100
83) 4-Chlorotoluene	16.67	91	1655373	10.28	ug/l	99

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

RHW300.D VO06H15.M Thu Aug 30 15:14:02 2012

Page 2

2022

Data File : D:\HPCHEM\1\DATA\12H30\RH300.D  
Acq On : 30 Aug 2012 1:05 pm  
Sample : VO06H15L  
Misc : 10ppb 8260/50ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 30 15:13 2012

Vial: 3  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration  
DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) tert-Butylbenzene	17.12	134	434017	9.87	ug/l	96
85) 1,2,4-Trimethylbenzene	17.18	105	1903431	10.34	ug/l	99
86) sec-Butylbenzene	17.43	105	2761784	10.45	ug/l	99
87) p-Isopropyltoluene	17.62	119	2162625	10.70	ug/l	99
88) 1,3-Dichlorobenzene	17.76	146	966267	9.84	ug/l	99
89) 1,4-Dichlorobenzene	17.91	146	923637	9.86	ug/l	99
91) n-Butylbenzene	18.16	91	2197230	10.70	ug/l	99
92) 1,2-Dichlorobenzene	18.37	146	728272	9.67	ug/l	100
93) 1,2-Dibromo-3-chloropropan	19.27	157	28360	7.68	ug/l	99
94) 1,2,4-Trichlorobenzene	20.27	180	390111	8.26	ug/l	99
95) Hexachlorobutadiene	20.43	225	299703	8.98	ug/l	100
96) Naphthalene	20.60	128	454018	7.92	ug/l	98
97) 1,2,3-Trichlorobenzene	20.89	180	268650	7.60	ug/l	100

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

RH300.D VO06H15.M Thu Aug 30 15:14:02 2012

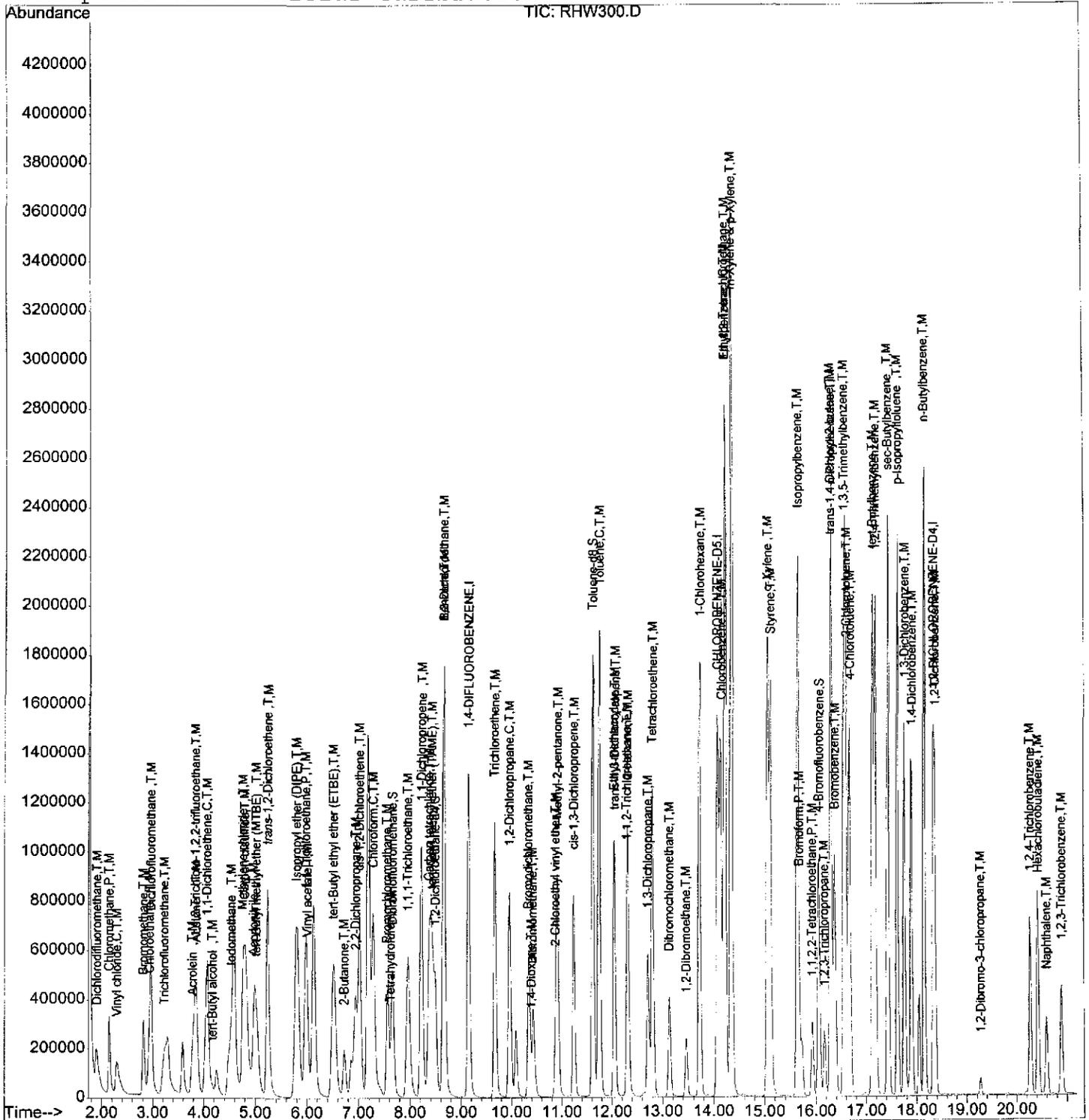
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H30\RH300.D  
Acq On : 30 Aug 2012 1:05 pm  
Sample : VO06H15L  
Misc : 10ppb 8260/50ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 30 15:13 2012

Vial: 3  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\12H30\RHW301.D  
 Acq On : 30 Aug 2012 1:35 pm  
 Sample : VO06H15C  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 30 15:15 2012

Vial: 4  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1735013 ✓	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.08	117	1430444 ✓	10.00	ug/l	0.02
72) 1,2-DICHLOROBENZENE-D4	18.34	152	496485 ✓	10.00	ug/l	0.00

## System Monitoring Compounds

34) Dibromofluoromethane	7.66	111	543081	10.37	ug/l	0.00
Spiked Amount	10.000		Recovery	=	103.70%	
38) 1,2-Dichloroethane-d4	8.49	65	439284	10.04	ug/l	0.00
Spiked Amount	10.000		Recovery	=	100.40%	
54) Toluene-d8	11.63	98	1976839	10.83	ug/l	0.02
Spiked Amount	10.000		Recovery	=	108.30%	
76) 4-Bromofluorobenzene	16.06	95	647675	10.48	ug/l	0.02
Spiked Amount	10.000		Recovery	=	104.80%	

## Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	394062	8.81	ug/l	100
3) Chloromethane	2.15	50	492065	9.15	ug/l	98
4) Vinyl chloride	2.29	62	382361	9.47	ug/l	100
5) Bromomethane	2.82	94	320685	9.91	ug/l	98
6) Chloroethane	2.93	64	272734	9.88	ug/l	97
7) Dichlorofluoromethane	2.96	67	878888	9.23	ug/l	99
8) Trichlorofluoromethane	3.25	101	609578	9.89	ug/l	99
9) Acrolein	3.78	56	140688	66.00	ug/l	94
10) 1,1,2-Trichloro-1,2,2-trif	3.84	151	303297	10.40	ug/l	99
11) Acetone	3.87	43	284184	48.09	ug/l	99
12) 1,1-Dichloroethene	4.08	61	898084	9.86	ug/l	100
13) tert-Butyl alcohol	4.17	59	84209	50.22	ug/l	97
16) Iodomethane	4.54	142	886577	11.34	ug/l	100
17) Methylene chloride	4.78	49	706535	11.32	ug/l	97
18) Carbon disulfide	4.79	76	1736342	9.33	ug/l	99
19) Acrylonitrile	4.99	53	374394	50.42	ug/l	99
20) tert-Butyl methyl ether (M	5.03	73	816110	10.00	ug/l	99
21) trans-1,2-Dichloroethene	5.24	61	944649	9.78	ug/l	99
22) Isopropyl ether (DIPE)	5.80	45	1960447	10.44	ug/l	100
23) Vinyl acetate	6.01	43	645863	9.90	ug/l	100
24) 1,1-Dichloroethane	5.98	63	1109634	10.05	ug/l	99
26) tert-Butyl ethyl ether (ET	6.52	59	1387114	10.11	ug/l	100
27) 2-Butanone	6.73	43	507389	46.26	ug/l	99
28) 2,2-Dichloropropane	6.95	77	595072	10.75	ug/l	100
29) cis-1,2-Dichloroethene	7.02	96	572972	9.04	ug/l	99
30) Chloroform	7.29	83	1043140	10.39	ug/l	99
32) Bromochloromethane	7.56	49	443351	10.04	ug/l	97

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

RHW301.D VO06H15.M Thu Aug 30 15:15:51 2012

Page 1

2025

Data File : D:\HPCHEM\1\DATA\12H30\RH301.D  
 Acq On : 30 Aug 2012 1:35 pm  
 Sample : VO06H15C  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 30 15:15 2012

Vial: 4  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) Tetrahydrofuran	7.63	42	65374	9.14	ug/l	96
35) 1,1,1-Trichloroethane	7.96	97	839866	10.29	ug/l	91
37) tert-Amyl methyl ether (TA	8.44	87	220913	10.33	ug/l	99
41) 1,1-Dichloropropene	8.23	110	292798	10.52	ug/l	98
42) Carbon tetrachloride	8.38	119	755291	10.43	ug/l	99
43) 1,2-Dichloroethane	8.66	62	542147	10.33	ug/l	99
44) Benzene	8.67	78	2216741	10.25	ug/l	100
45) Trichloroethene	9.68	130	630520	10.21	ug/l	98
47) 1,2-Dichloropropane	9.97	63	582976	10.63	ug/l	98
48) 1,4-Dioxane	10.38	88	34791	204.67	ug/l	96
49) Bromodichloromethane	10.35	83	678502	10.18	ug/l	100
50) Dibromomethane	10.43	93	245218	10.30	ug/l	98
51) 2-Chloroethyl vinyl ether	10.87	63	180139	10.17	ug/l	99
52) 4-Methyl-2-pentanone	10.92	43	1462825	51.72	ug/l	100
53) cis-1,3-Dichloropropene	11.25	75	817374	10.61	ug/l	99
55) Toluene	11.75	91	2263311	10.10	ug/l	100
56) Ethyl methacrylate	12.05	69	383830	10.45	ug/l	97
57) trans-1,3-Dichloropropene	12.06	75	590862	10.47	ug/l	98
58) 1,1,2-Trichloroethane	12.32	97	282828	10.05	ug/l	99
59) 2-Hexanone	12.33	43	892829	53.04	ug/l	98
60) 1,3-Dichloropropane	12.72	76	575182	9.82	ug/l	100
61) Tetrachloroethene	12.81	164	500668	10.28	ug/l	98
62) Dibromochloromethane	13.13	129	370002	9.75	ug/l	100
64) 1,2-Dibromoethane	13.46	107	288296	9.84	ug/l	100
65) 1-Chlorohexane	13.73	91	1042145	11.04	ug/l	99
66) Chlorobenzene	14.14	112	1395774	10.39	ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.22	131	436508	10.26	ug/l	99
68) Ethylbenzene	14.22	91	2612251	10.38	ug/l	100
69) m-Xylene & p-Xylene	14.35	91	3857067	19.96	ug/l	99
70) o-Xylene	15.07	91	1949005	10.08	ug/l	100
71) Styrene	15.11	104	1412748	10.56	ug/l	100
73) Isopropylbenzene	15.65	105	2536016	10.90	ug/l	100
74) Bromoform	15.68	173	169208	8.83	ug/l	99
75) 1,1,2,2-Tetrachloroethane	15.93	83	309274	9.96	ug/l	99
77) 1,2,3-Trichloropropane	16.17	110	78279	9.41	ug/l	95
78) trans-1,4-Dichloro-2-buten	16.29	53	90089	9.65	ug/l	98
79) n-Propylbenzene	16.30	91	3179245	10.24	ug/l	100
80) Bromobenzene	16.37	156	465490	9.61	ug/l	97
81) 1,3,5-Trimethylbenzene	16.55	105	1894602	10.15	ug/l	100
82) 2-Chlorotoluene	16.60	91	1880142	9.71	ug/l	99
83) 4-Chlorotoluene	16.67	91	1628826	10.37	ug/l	99

(#) = qualifier out of range (m) = manual integration  
 RH301.D VO06H15.M Thu Aug 30 15:15:51 2012

Data File : D:\HPCHEM\1\DATA\12H30\RHW301.D  
Acq On : 30 Aug 2012 1:35 pm  
Sample : VO06H15C  
Misc : 10ppb 8260/50ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 30 15:15 2012

Vial: 4  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration  
DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) tert-Butylbenzene	17.13	134	417691	9.75	ug/l	96
85) 1,2,4-Trimethylbenzene	17.18	105	1877566	10.46	ug/l	98
86) sec-Butylbenzene	17.43	105	2618986	10.17	ug/l	99
87) p-Isopropyltoluene	17.62	119	2067307	10.49	ug/l	99
88) 1,3-Dichlorobenzene	17.76	146	946476	9.88	ug/l	99
89) 1,4-Dichlorobenzene	17.91	146	919319	10.07	ug/l	99
91) n-Butylbenzene	18.16	91	2072627	10.35	ug/l	100
92) 1,2-Dichlorobenzene	18.37	146	722300	9.84	ug/l	99
93) 1,2-Dibromo-3-chloropropan	19.27	157	30276	8.41	ug/l	96
94) 1,2,4-Trichlorobenzene	20.27	180	414595	9.00	ug/l	99
95) Hexachlorobutadiene	20.43	225	305873	9.40	ug/l	100
96) Naphthalene	20.60	128	492556	8.82	ug/l	99
97) 1,2,3-Trichlorobenzene	20.89	180	286387	8.31	ug/l	100

(#) = qualifier out of range (m) = manual integration  
RHW301.D VO06H15.M Thu Aug 30 15:15:52 2012

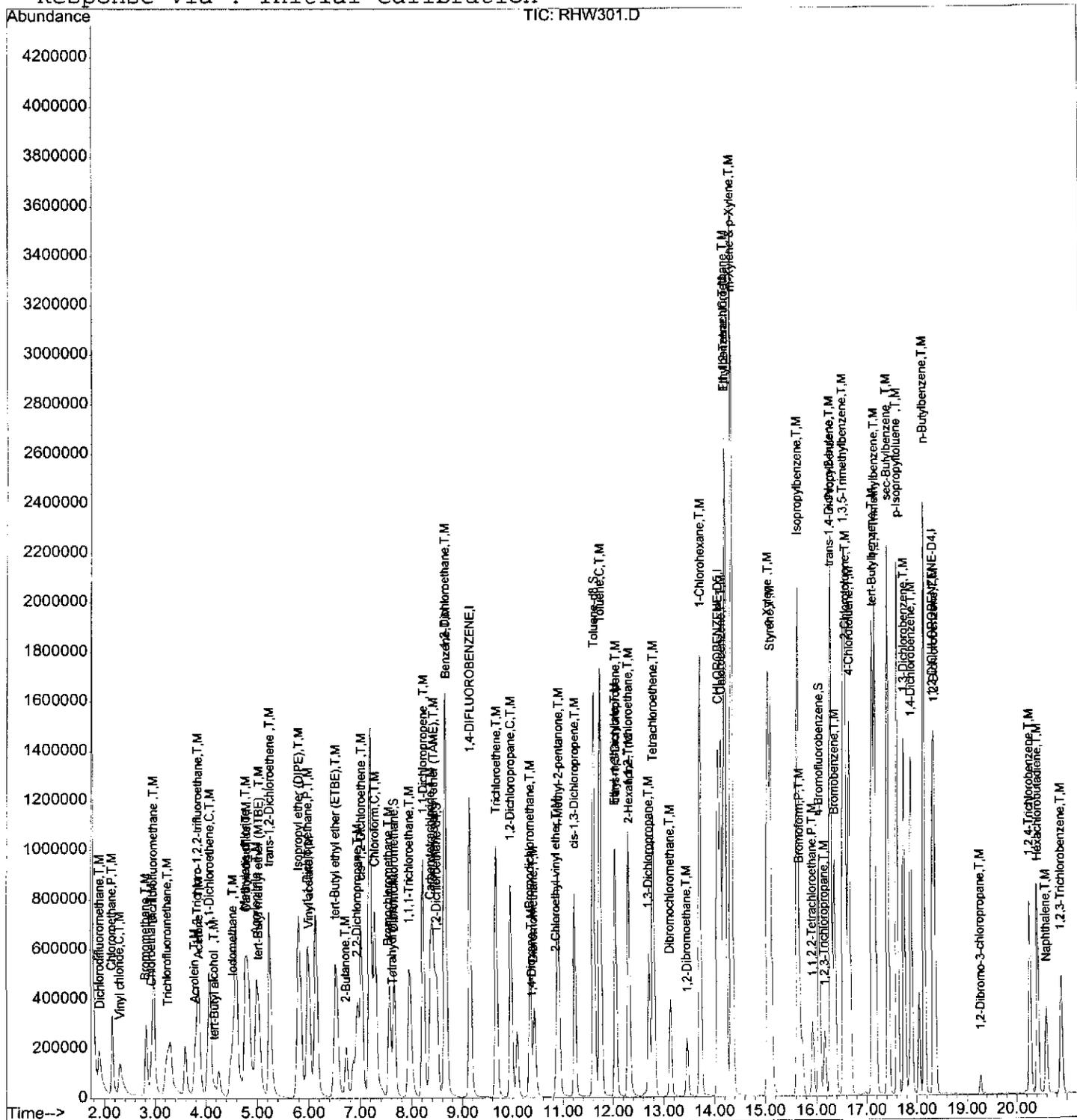
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H30\RHW301.D  
Acq On : 30 Aug 2012 1:35 pm  
Sample : VO06H15C  
Misc : 10ppb 8260/50ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 30 15:15 2012

Vial: 4  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\12H30\RHW304.D  
 Acq On : 30 Aug 2012 3:05 pm  
 Sample : 12H184-03 25mL  
 Misc : DF=1.0

Vial: 7  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 31 10:43 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.16	114	1764732	10.00	ug/l	0.01
39) CHLOROBENZENE-D5	14.07	117	1490386	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	530410	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.66	111	572577	10.75	ug/l	0.00
Spiked Amount	10.000		Recovery	=	107.50%	
38) 1,2-Dichloroethane-d4	8.49	65	481082	10.81	ug/l	0.00
Spiked Amount	10.000		Recovery	=	108.10%	
54) Toluene-d8	11.63	98	2028358	10.67	ug/l	0.01
Spiked Amount	10.000		Recovery	=	106.70%	
76) 4-Bromofluorobenzene	16.06	95	658731	9.98	ug/l	0.01
Spiked Amount	10.000		Recovery	=	99.80%	
Target Compounds						
61) Tetrachloroethene	12.81	164	15029	0.30	ug/l	99

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

RHW304.D VO06H15.M Fri Aug 31 10:44:10 2012

Page 1

2629

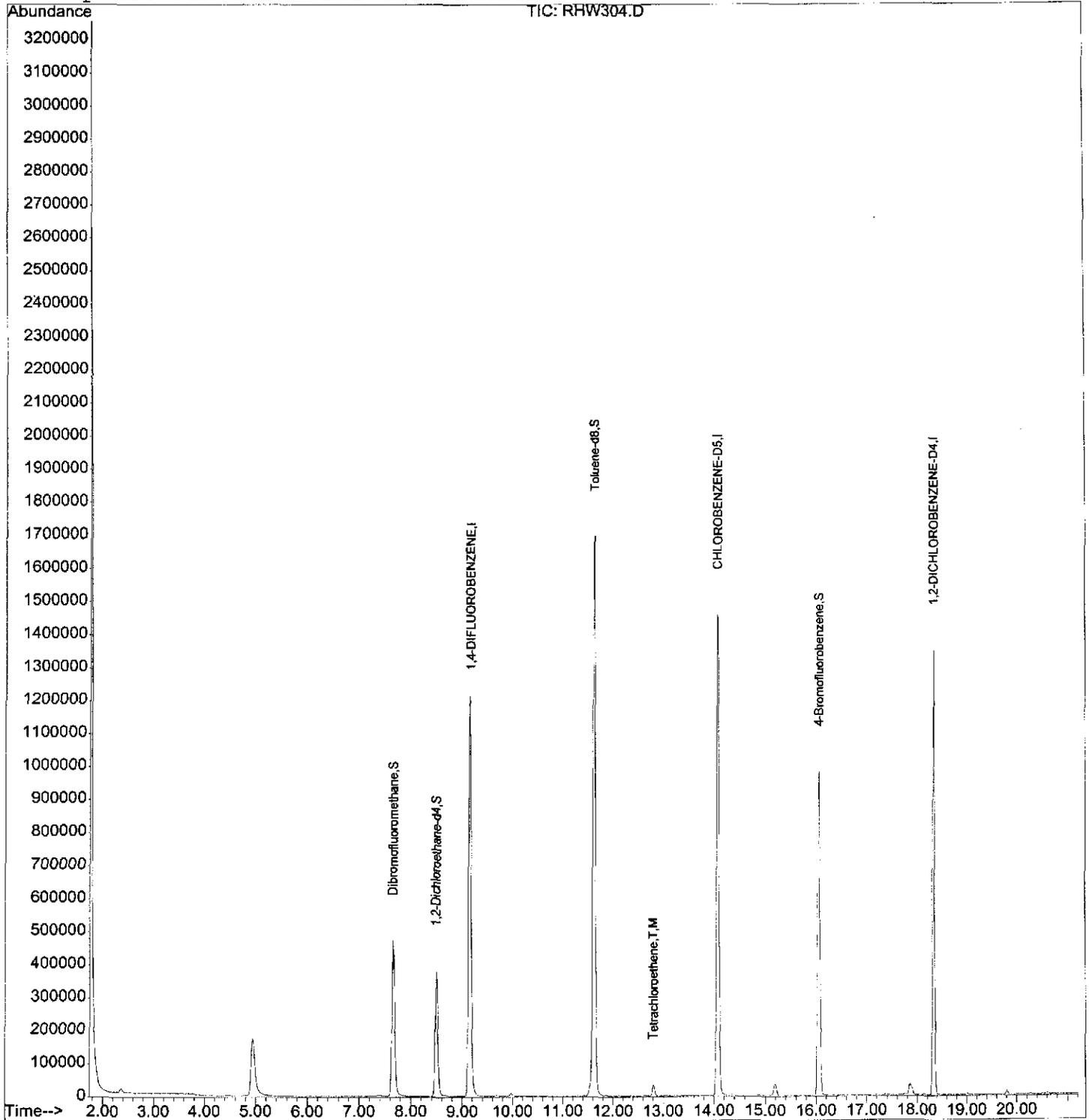
Quantitation Report

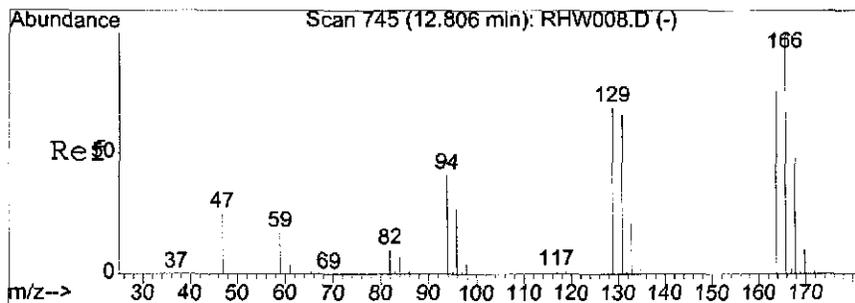
Data File : D:\HPCHEM\1\DATA\12H30\RHW304.D  
Acq On : 30 Aug 2012 3:05 pm  
Sample : 12H184-03 25mL  
Misc : DF=1.0  
MS Integration Params: RTE.P  
Quant Time: Aug 31 10:43 2012

Vial: 7  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

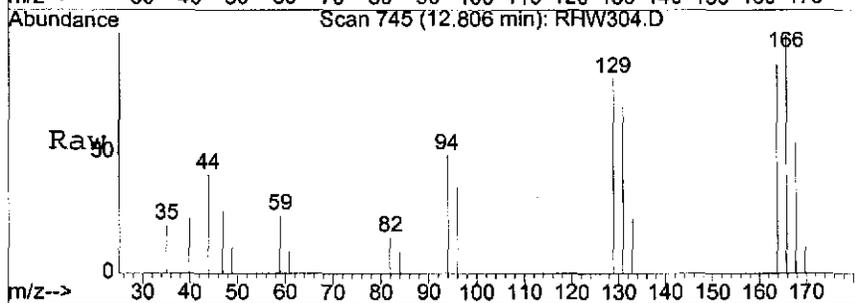
Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



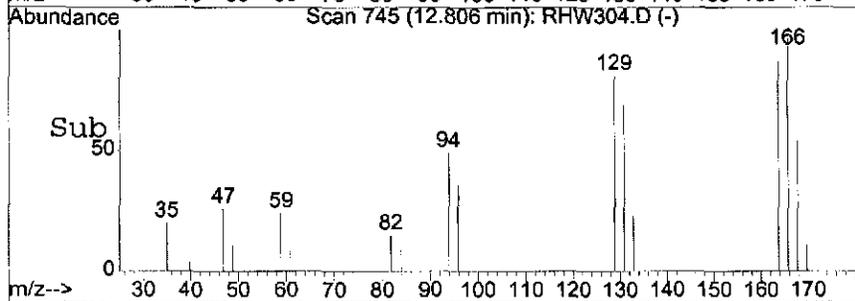
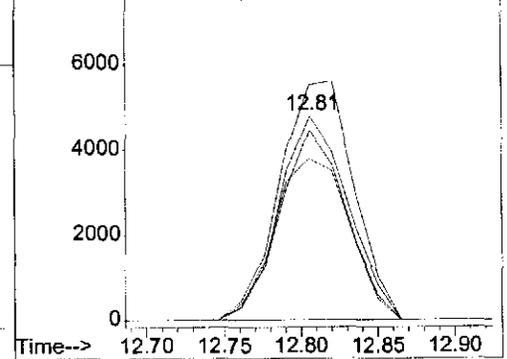


#61  
 Tetrachloroethene  
 Concen: 0.30 ug/l  
 RT: 12.81 min Scan# 745  
 Delta R.T. 0.00 min  
 Lab File: RHW304.D  
 Acq: 30 Aug 2012 3:05 pm

Tgt Ion	Resp	Lower	Upper
164	15029		
164	100		
166	125.7	98.0	158.0
129	90.4	60.3	120.3
131	86.4	56.2	116.2



Abundance Ion 164.00 (163.70 to 164.70): RHW304  
 Ion 166.00 (165.70 to 166.70): RHW304  
 Ion 129.00 (128.70 to 129.70): RHW304  
 Ion 131.00 (130.70 to 131.70): RHW304



Data File : D:\HPCHEM\1\DATA\12H30\RH305.D  
 Acq On : 30 Aug 2012 3:35 pm  
 Sample : 12H184-03M 25mL  
 Misc : DF=1.0

Vial: 8  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

MS Integration Params: RTE.P  
 Quant Time: Aug 31 10:44 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1641864	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1370140	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	478394	10.00	ug/l	0.00

System Monitoring Compounds

34) Dibromofluoromethane	7.66	111	526175	10.61	ug/l	0.00
Spiked Amount	10.000		Recovery	=	106.10%	
38) 1,2-Dichloroethane-d4	8.50	65	436574	10.54	ug/l	0.00
Spiked Amount	10.000		Recovery	=	105.40%	
54) Toluene-d8	11.63	98	1907259	10.91	ug/l	0.02
Spiked Amount	10.000		Recovery	=	109.10%	
76) 4-Bromofluorobenzene	16.06	95	615943	10.34	ug/l	0.02
Spiked Amount	10.000		Recovery	=	103.40%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	418291	9.88	ug/l	99
3) Chloromethane	2.15	50	500536	9.84	ug/l	99
4) Vinyl chloride	2.30	62	397820	10.41	ug/l	99
5) Bromomethane	2.82	94	330444	10.79	ug/l	100
6) Chloroethane	2.94	64	285763	10.94	ug/l	99
7) Dichlorofluoromethane	2.97	67	1012089	11.23	ug/l	100
8) Trichlorofluoromethane	3.25	101	635131	10.89	ug/l	100
9) Acrolein	3.78	56	60166	29.83	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	3.84	151	290751	10.53	ug/l	100
11) Acetone	3.87	43	252234	45.11	ug/l	99
12) 1,1-Dichloroethene	4.08	61	946020	10.97	ug/l	99
13) tert-Butyl alcohol	4.17	59	77211	48.65	ug/l	91
16) Iodomethane	4.54	142	776524	10.50	ug/l	98
17) Methylene chloride	4.76	49	669874	11.34	ug/l	96
18) Carbon disulfide	4.79	76	1773853	10.07	ug/l	100
19) Acrylonitrile	4.99	53	348960	49.67	ug/l	99
20) tert-Butyl methyl ether (M	5.02	73	792484	10.26	ug/l	98
21) trans-1,2-Dichloroethene	5.24	61	998601	10.93	ug/l	99
22) Isopropyl ether (DIPE)	5.80	45	1899606	10.69	ug/l	99
23) Vinyl acetate	6.01	43	569885	9.23	ug/l	100
24) 1,1-Dichloroethane	5.98	63	1128553	10.80	ug/l	99
26) tert-Butyl ethyl ether (ET	6.53	59	1315502	10.13	ug/l	99
27) 2-Butanone	6.73	43	477284	45.99	ug/l	98
28) 2,2-Dichloropropane	6.95	77	605233	11.55	ug/l	99
29) cis-1,2-Dichloroethene	7.02	96	642908	10.71	ug/l	99
30) Chloroform	7.29	83	986409	10.39	ug/l	99
32) Bromochloromethane	7.56	49	442454	10.59	ug/l	95

(#) = qualifier out of range (m) = manual integration  
 RHW305.D VO06H15.M Fri Aug 31 10:45:19 2012

Data File : D:\HPCHEM\1\DATA\12H30\RH305.D  
 Acq On : 30 Aug 2012 3:35 pm  
 Sample : 12H184-03M 25mL  
 Misc : DF=1.0

Vial: 8  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 31 10:44 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) Tetrahydrofuran	7.63	42	62274	9.20	ug/l	97
35) 1,1,1-Trichloroethane	7.96	97	860356	11.14	ug/l	91
37) tert-Amyl methyl ether (TA	8.44	87	205439	10.15	ug/l	98
41) 1,1-Dichloropropene	8.23	110	286260	10.74	ug/l	100
42) Carbon tetrachloride	8.38	119	769799	11.10	ug/l	100
43) 1,2-Dichloroethane	8.66	62	530394	10.55	ug/l	99
44) Benzene	8.67	78	2198888	10.61	ug/l	99
45) Trichloroethene	9.67	130	615877	10.41	ug/l	98
47) 1,2-Dichloropropane	9.97	63	573742	10.92	ug/l	98
48) 1,4-Dioxane	10.38	88	31640	194.33	ug/l	97
49) Bromodichloromethane	10.34	83	693919	10.87	ug/l	100
50) Dibromomethane	10.43	93	240476	10.55	ug/l	98
52) 4-Methyl-2-pentanone	10.92	43	1252899	46.25	ug/l	96
53) cis-1,3-Dichloropropene	11.25	75	796594	10.79	ug/l	99
55) Toluene	11.75	91	2293914	10.69	ug/l	100
56) Ethyl methacrylate	12.05	69	368465	10.47	ug/l	98
57) trans-1,3-Dichloropropene	12.06	75	566317	10.48	ug/l	98
58) 1,1,2-Trichloroethane	12.30	97	284538	10.56	ug/l	98
59) 2-Hexanone	12.33	43	817015	50.67	ug/l	99
60) 1,3-Dichloropropane	12.72	76	580391	10.35	ug/l	99
61) Tetrachloroethene	12.81	164	493641	10.58	ug/l	99
62) Dibromochloromethane	13.13	129	375282	10.33	ug/l	100
64) 1,2-Dibromoethane	13.46	107	291528	10.39	ug/l	99
65) 1-Chlorohexane	13.73	91	1000464	11.06	ug/l	98
66) Chlorobenzene	14.15	112	1367141	10.63	ug/l	100
67) 1,1,1,2-Tetrachloroethane	14.22	131	435772	10.69	ug/l	99
68) Ethylbenzene	14.22	91	2617299	10.86	ug/l	99
69) m-Xylene & p-Xylene	14.35	91	3906865	21.11	ug/l	99
70) o-Xylene	15.05	91	2054229	11.09	ug/l	99
71) Styrene	15.11	104	1395719	10.90	ug/l	99
73) Isopropylbenzene	15.65	105	2420066	10.80	ug/l	100
74) Bromoform	15.68	173	167095	9.04	ug/l	99
75) 1,1,2,2-Tetrachloroethane	15.93	83	313484	10.48	ug/l	99
77) 1,2,3-Trichloropropane	16.17	110	82733	10.32	ug/l	95
78) trans-1,4-Dichloro-2-buten	16.27	53	91196	10.13	ug/l	96
79) n-Propylbenzene	16.30	91	3233825	10.81	ug/l	100
80) Bromobenzene	16.38	156	474155	10.16	ug/l	95
81) 1,3,5-Trimethylbenzene	16.55	105	1920653	10.68	ug/l	100
82) 2-Chlorotoluene	16.60	91	1954153	10.47	ug/l	99
83) 4-Chlorotoluene	16.67	91	1626731	10.75	ug/l	98
84) tert-Butylbenzene	17.12	134	436474	10.57	ug/l	96

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

Data File : D:\HPCHEM\1\DATA\12H30\RHW305.D  
Acq On : 30 Aug 2012 3:35 pm  
Sample : 12H184-03M 25mL  
Misc : DF=1.0

Vial: 8  
Operator: WL  
Inst : T006  
Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 31 10:44 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.18	105	1843506	10.66	ug/l	99
86) sec-Butylbenzene	17.43	105	2724968	10.98	ug/l	99
87) p-Isopropyltoluene	17.62	119	2042222	10.76	ug/l	99
88) 1,3-Dichlorobenzene	17.76	146	950778	10.30	ug/l	99
89) 1,4-Dichlorobenzene	17.91	146	922757	10.49	ug/l	100
91) n-Butylbenzene	18.16	91	2099385	10.88	ug/l	100
92) 1,2-Dichlorobenzene	18.37	146	719233	10.17	ug/l	99
93) 1,2-Dibromo-3-chloropropan	19.27	157	31070	8.96	ug/l	98
94) 1,2,4-Trichlorobenzene	20.27	180	397533	8.96	ug/l	99
95) Hexachlorobutadiene	20.43	225	304516	9.71	ug/l	100
96) Naphthalene	20.60	128	485069	9.01	ug/l	99
97) 1,2,3-Trichlorobenzene	20.90	180	284122	8.56	ug/l	99

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

RHW305.D VO06H15.M

Fri Aug 31 10:45:20 2012

Page 3

2004

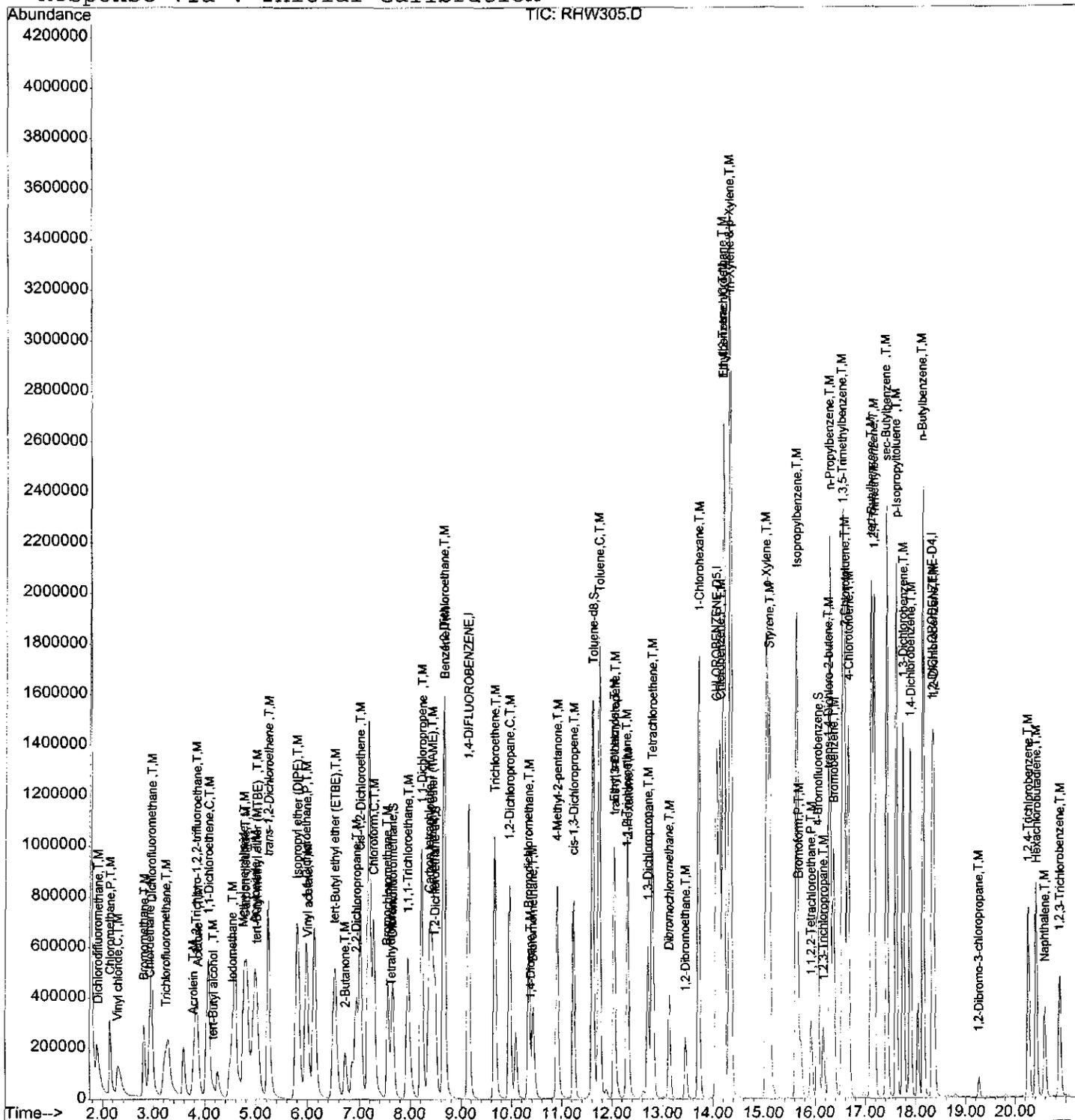
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H30\RH305.D  
Acq On : 30 Aug 2012 3:35 pm  
Sample : 12H184-03M 25mL  
Misc : DF=1.0  
MS Integration Params: RTE.P  
Quant Time: Aug 31 10:44 2012

Vial: 8  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\12H30\RH306.D  
 Acq On : 30 Aug 2012 4:05 pm  
 Sample : 12H184-03S 25mL  
 Misc : DF=1.0

Vial: 9  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 31 10:46 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.16	114	1808728	10.00	ug/l	0.01
39) CHLOROBENZENE-D5	14.08	117	1543625	10.00	ug/l	0.01
72) 1,2-DICHLOROBENZENE-D4	18.34	152	507288	10.00	ug/l	0.00

#### System Monitoring Compounds

34) Dibromofluoromethane	7.66	111	585288	10.72	ug/l	0.00
Spiked Amount	10.000			Recovery	=	107.20%
38) 1,2-Dichloroethane-d4	8.49	65	487698	10.69	ug/l	0.00
Spiked Amount	10.000			Recovery	=	106.90%
54) Toluene-d8	11.63	98	2080412	10.56	ug/l	0.01
Spiked Amount	10.000			Recovery	=	105.60%
76) 4-Bromofluorobenzene	16.06	95	674610	10.68	ug/l	0.01
Spiked Amount	10.000			Recovery	=	106.80%

#### Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	419518	8.99	ug/l	100
3) Chloromethane	2.15	50	523920	9.35	ug/l	99
4) Vinyl chloride	2.31	62	394129	9.36	ug/l	100
5) Bromomethane	2.83	94	344294	10.21	ug/l	100
6) Chloroethane	2.93	64	280208	9.73	ug/l	98
7) Dichlorofluoromethane	2.98	67	1022167	10.29	ug/l	100
8) Trichlorofluoromethane	3.25	101	645122	10.04	ug/l	100
9) Acrolein	3.78	56	70789	31.86	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	3.84	151	295706	9.72	ug/l	100
11) Acetone	3.87	43	282081	45.79	ug/l	99
12) 1,1-Dichloroethene	4.08	61	943978	9.94	ug/l	99
13) tert-Butyl alcohol	4.17	59	86834	49.67	ug/l	94
16) Iodomethane	4.54	142	808585	9.92	ug/l	99
17) Methylene chloride	4.82	49	688099	10.53	ug/l	97
18) Carbon disulfide	4.79	76	1790889	9.23	ug/l	100
19) Acrylonitrile	4.98	53	378862	48.95	ug/l	98
20) tert-Butyl methyl ether (M	5.03	73	860167	10.11	ug/l	98
21) trans-1,2-Dichloroethene	5.24	61	1021203	10.15	ug/l	99
22) Isopropyl ether (DIPE)	5.80	45	2025872	10.35	ug/l	99
23) Vinyl acetate	6.01	43	618655	9.10	ug/l	100
24) 1,1-Dichloroethane	5.98	63	1150443	9.99	ug/l	99
26) tert-Butyl ethyl ether (ET	6.53	59	1436324	10.04	ug/l	99
27) 2-Butanone	6.72	43	508513	44.47	ug/l	99
28) 2,2-Dichloropropane	6.95	77	600791	10.41	ug/l	99
29) cis-1,2-Dichloroethene	7.02	96	649376	9.82	ug/l	99
30) Chloroform	7.29	83	1036725	9.91	ug/l	99
32) Bromochloromethane	7.57	49	463901	10.08	ug/l	96

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

Data File : D:\HPCHEM\1\DATA\12H30\RH306.D

Vial: 9

Acq On : 30 Aug 2012 4:05 pm

Operator: WL

Sample : 12H184-03S 25mL

Inst : TO06

Misc : DF=1.0

Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 31 10:46 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) Tetrahydrofuran	7.63	42	67275	9.01	ug/l	99
35) 1,1,1-Trichloroethane	7.96	97	865143	10.17	ug/l	91
37) tert-Amyl methyl ether (TA	8.43	87	226070	10.14	ug/l	98
41) 1,1-Dichloropropene	8.23	110	289653	9.65	ug/l	99
42) Carbon tetrachloride	8.37	119	769257	9.85	ug/l	100
43) 1,2-Dichloroethane	8.66	62	554532	9.79	ug/l	99
44) Benzene	8.67	78	2272228	9.74	ug/l	99
45) Trichloroethene	9.67	130	627915	9.42	ug/l	98
47) 1,2-Dichloropropane	9.97	63	609741	10.30	ug/l	98
48) 1,4-Dioxane	10.40	88	34484	187.99	ug/l	99
49) Bromodichloromethane	10.35	83	721495	10.04	ug/l	100
50) Dibromomethane	10.43	93	248777	9.68	ug/l	98
52) 4-Methyl-2-pentanone	10.92	43	1358951	44.53	ug/l	95
53) cis-1,3-Dichloropropene	11.24	75	823565	9.91	ug/l	100
55) Toluene	11.75	91	2355634	9.74	ug/l	100
56) Ethyl methacrylate	12.05	69	401049	10.12	ug/l	100
57) trans-1,3-Dichloropropene	12.06	75	600288	9.86	ug/l	99
58) 1,1,2-Trichloroethane	12.30	97	297729	9.80	ug/l	99
59) 2-Hexanone	12.33	43	906632	49.91	ug/l	98
60) 1,3-Dichloropropane	12.72	76	629672	9.96	ug/l	99
61) Tetrachloroethene	12.81	164	492298	9.37	ug/l	99
62) Dibromochloromethane	13.13	129	399403	9.76	ug/l	100
64) 1,2-Dibromoethane	13.46	107	308011	9.74	ug/l	100
65) 1-Chlorohexane	13.73	91	952733	9.35	ug/l	99
66) Chlorobenzene	14.14	112	1385446	9.56	ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.22	131	443246	9.66	ug/l	100
68) Ethylbenzene	14.22	91	2582061	9.51	ug/l	99
69) m-Xylene & p-Xylene	14.35	91	3884862	18.63	ug/l	99
70) o-Xylene	15.05	91	2074837	9.94	ug/l	100
71) Styrene	15.12	104	1399427	9.70	ug/l	99
73) Isopropylbenzene	15.64	105	2350561	9.89	ug/l	100
74) Bromoform	15.67	173	177210	9.04	ug/l	100
75) 1,1,2,2-Tetrachloroethane	15.93	83	325995	10.28	ug/l	100
77) 1,2,3-Trichloropropane	16.17	110	86077	10.12	ug/l	98
78) trans-1,4-Dichloro-2-buten	16.28	53	94006	9.85	ug/l	98
79) n-Propylbenzene	16.30	91	3192052	10.06	ug/l	100
80) Bromobenzene	16.37	156	480291	9.71	ug/l	96
81) 1,3,5-Trimethylbenzene	16.55	105	1898381	9.95	ug/l	100
82) 2-Chlorotoluene	16.60	91	1928396	9.75	ug/l	99
83) 4-Chlorotoluene	16.67	91	1634807	10.19	ug/l	99
84) tert-Butylbenzene	17.13	134	425236	9.71	ug/l	98

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

RH306.D VO06H15.M Fri Aug 31 10:46:53 2012

Page 2

2037

Data File : D:\HPCHEM\1\DATA\12H30\RH306.D  
Acq On : 30 Aug 2012 4:05 pm  
Sample : 12H184-03S 25mL  
Misc : DF=1.0

Vial: 9  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 31 10:46 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.18	105	1812740	9.89	ug/l	100
86) sec-Butylbenzene	17.43	105	2553540	9.70	ug/l	99
87) p-Isopropyltoluene	17.62	119	1972093	9.79	ug/l	99
88) 1,3-Dichlorobenzene	17.76	146	949663	9.71	ug/l	99
89) 1,4-Dichlorobenzene	17.90	146	913279	9.79	ug/l	99
91) n-Butylbenzene	18.16	91	1942728	9.50	ug/l	100
92) 1,2-Dichlorobenzene	18.37	146	721682	9.62	ug/l	99
93) 1,2-Dibromo-3-chloropropan	19.27	157	32351	8.80	ug/l	99
94) 1,2,4-Trichlorobenzene	20.27	180	371527	7.90	ug/l	99
95) Hexachlorobutadiene	20.43	225	257084	7.73	ug/l	100
96) Naphthalene	20.60	128	488253	8.55	ug/l	99
97) 1,2,3-Trichlorobenzene	20.89	180	266962	7.58	ug/l	100

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

RHW306.D VO06H15.M

Fri Aug 31 10:46:53 2012

Page 3

2038

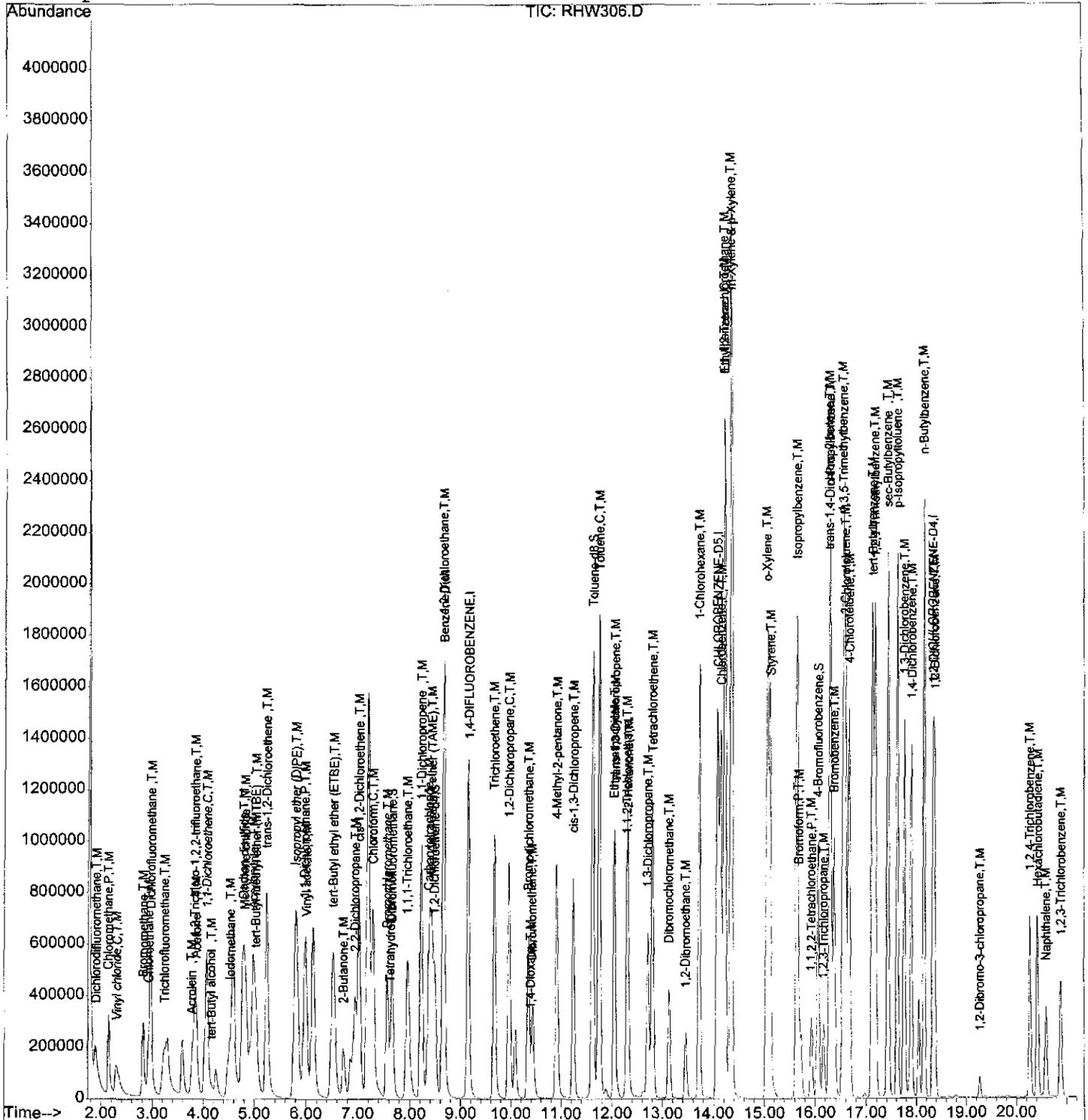
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H30\RHW306.D  
Acq On : 30 Aug 2012 4:05 pm  
Sample : 12H184-03S 25mL  
Misc : DF=1.0  
MS Integration Params: RTE.P  
Quant Time: Aug 31 10:46 2012

Vial: 9  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



# **INITIAL CALIBRATIONS**



INITIAL\_CALIBRATION - RELATIVE\_RESPONSE\_FACTOR

Instrument ID :T006  
 Beginning Date/Time :08/15/12 19:22  
 Spike Units :PPB  
 IC File :rhw008

Column Spec :RTX502.2 ID :0.25MM  
 Ending Date/Time :08/15/12 23:53  
 HPChem Method :vo06h15

M	IDX	Parameters	19:23 rhw003	5 19:53 rhw004	1 20:23 rhw005	2 20:54 rhw006	5 21:23 rhw007	10 21:54 rhw008	20 22:23 rhw009	30 22:53 rhw010	50 23:24 rhw011	100 23:53 rhw012	AV_RRF	%_RSD	AV_RT_M
	1	1,4-DIFLUOROBENZENE	0.287	0.246	0.236	0.255	0.283	0.258	0.244	0.257	0.261	0.251	0.258	6.32	9.1495
	2	Dichlorodifluoromethane	0.323	0.284	0.300	0.327	0.342	0.320	0.298	0.312	0.307	0.287	0.310	5.91	2.1470
	3	Chloromethane	0.237	0.239	0.230	0.264	0.275	0.236	0.200	0.181	0.200	0.164	0.187	13.19	2.2996
	4	Vinyl chloride	0.159	0.178	0.161	0.198	0.217	0.202	0.196	0.200	0.190	0.164	0.159	10.72	2.8115
	5	Bromomethane	0.161	0.140	0.144	0.173	0.177	0.174	0.163	0.164	0.161	0.134	0.159	9.41	2.9186
	6	Chloroethane	0.581	0.572	0.599	0.516	0.558	0.574	0.564	0.559	0.533	0.433	0.549	8.55	2.9602
	7	Dichlorofluoromethane	0.328	0.320	0.313	0.371	0.414	0.374	0.359	0.365	0.364	0.345	0.355	8.43	3.2382
	8	Trichlorofluoromethane	0.015	0.012	0.012	0.012	0.012	0.013	0.012	0.014	0.012	0.010	0.012	9.90	3.7720
	9	Acrolein	0.187	0.169	0.168	0.146	0.169	0.169	0.170	0.174	0.176	0.155	0.168	6.69	3.8255
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.541	0.516	0.544	0.491	0.534	0.534	0.533	0.542	0.541	0.475	0.525	4.54	4.0634
	11	Acetone	0.008	0.008	0.009	0.009	0.010	0.011	0.010	0.012	0.009	0.009	0.000	12.01	4.1607
	12	1,1-Dichloroethene	0.139	0.139	0.122	0.119	0.118	0.104	0.098	0.116	0.097	0.088	0.111	14.21	4.5407
	13	tert-Butyl alcohol	0.425	0.425	0.461	0.413	0.459	0.455	0.462	0.484	0.468	0.426	0.451	4.90	4.5258
	14	Methyl acetate	0.666	0.666	0.569	0.438	0.412	0.392	0.374	0.392	0.359	0.315	0.433	25.09	4.7885
	15	Iodomethane	0.929	0.919	1.035	1.105	1.134	1.134	1.090	1.152	1.192	1.042	1.073	8.57	4.7934
	16	Methylene chloride	0.042	0.045	0.043	0.046	0.044	0.044	0.044	0.044	0.040	0.037	0.043	7.45	4.9733
	17	Carbon disulfide	0.480	0.505	0.485	0.456	0.465	0.494	0.457	0.522	0.438	0.400	0.470	7.49	5.0178
	18	Acrylonitrile	0.595	0.552	0.584	0.529	0.574	0.559	0.566	0.572	0.552	0.482	0.556	5.77	5.2334
	19	tert-Butyl methyl ether (MTBE)	1.123	1.096	1.136	1.038	1.095	1.123	1.079	1.168	1.046	0.919	1.082	6.46	5.8043
	20	trans-1,2-Dichloroethene	0.639	0.646	0.669	0.623	0.665	0.649	0.642	0.650	0.628	0.556	0.637	5.00	5.9708
	21	Isopropyl ether (DIPE)	0.810	0.803	0.811	0.770	0.784	0.814	0.794	0.876	0.767	0.679	0.791	9.21	6.5805
	22	1,1-Dichloroethane	0.078	0.068	0.068	0.063	0.057	0.062	0.057	0.069	0.058	0.053	0.063	11.92	6.7231
	23	tert-Butyl ethyl ether (ETBE)	0.368	0.337	0.356	0.331	0.339	0.331	0.317	0.310	0.292	0.232	0.319	11.92	6.9387
	24	2,2-Dichloropropane	0.377	0.376	0.387	0.359	0.369	0.363	0.367	0.377	0.357	0.323	0.323	4.81	7.0235
	25	cis-1,2-Dichloroethene	0.636	0.589	0.618	0.564	0.581	0.575	0.571	0.592	0.561	0.497	0.578	6.39	7.2911
	26	Chloroform	0.260	0.266	0.264	0.244	0.251	0.262	0.254	0.276	0.246	0.222	0.255	5.92	7.5587
	27	tert-Amyl alcohol	0.224	0.247	0.264	0.244	0.251	0.262	0.254	0.276	0.246	0.222	0.255	25.79	7.6236
	28	Bromochloromethane	0.485	0.477	0.497	0.449	0.491	0.484	0.480	0.476	0.465	0.401	0.471	12.90	7.6568
	29	Tetrahydrofuran	0.861	0.968	0.772	0.770	0.826	0.736	0.706	0.681	0.692	0.606	0.779	5.91	7.9571
	30	1,1-Trichloroethane	0.124	0.124	0.126	0.116	0.119	0.133	0.125	0.140	0.120	0.106	0.123	11.92	7.9733
	31	Cyclohexane	0.201	0.223	0.272	0.266	0.279	0.278	0.257	0.275	0.249	0.222	0.252	11.03	8.4329
	32	tert-Amyl methyl ether (TAME)	1.513	1.721	1.721	1.746	1.844	1.617	1.457	1.579	1.684	1.505	1.630	7.89	8.9906
	33	CHLOROBENZENE-D5	0.201	0.190	0.200	0.180	0.196	0.191	0.198	0.198	0.198	0.184	0.184	4.25	8.2203
	34	2,2,4-Trimethylpentane	0.511	0.485	0.518	0.443	0.509	0.510	0.524	0.522	0.552	0.486	0.506	5.79	8.3764
	35	1,1-Dichloropentane	0.401	0.381	0.396	0.366	0.366	0.366	0.361	0.381	0.352	0.315	0.367	6.76	8.6455
	36	Carbon tetrachloride	1.765	1.655	1.624	1.425	1.472	1.458	1.485	1.505	1.483	1.248	1.512	9.36	8.6589
	37	1,2-Dichloroethane	0.483	0.438	0.424	0.386	0.432	0.427	0.435	0.437	0.454	0.402	0.432	6.12	9.6699
	38	Benzene	0.575	0.677	0.714	0.725	0.816	0.701	0.683	0.683	0.742	0.649	0.697	8.98	9.7576
	39	Methylcyclohexane	0.399	0.398	0.397	0.363	0.379	0.383	0.388	0.398	0.386	0.345	0.384	4.61	9.9642
	40	1,2-Dichloropropane	0.463	0.438	0.453	0.426	0.461	0.477	0.494	0.509	0.001	0.001	0.001	11.65	10.3854
	41	1,4-Dioxane	0.171	0.167	0.169	0.152	0.165	0.168	0.171	0.183	0.167	0.152	0.166	5.58	10.3389
	42	Bromodichloromethane	0.116	0.112	0.116	0.111	0.123	0.132	0.129	0.147	0.129	0.125	0.124	8.84	10.4266
	43	Dibromomethane	0.206	0.195	0.195	0.206	0.196	0.207	0.194	0.222	0.190	0.168	0.198	7.11	10.8696
	44	2-Chloroethyl vinyl ether	0.539	0.516	0.516	0.494	0.543	0.558	0.560	0.596	0.560	0.505	0.539	5.79	11.2339
	45	4-Methyl-2-pentanone	1.073	1.150	1.304	1.319	1.454	1.354	1.289	1.334	1.325	1.158	1.276	8.94	11.6190
	46	cis-1,3-Dichloropropene	1.709	1.639	1.656	1.514	1.605	1.545	1.567	1.560	1.548	1.318	1.566	6.76	11.7483
	47	Toluene	0.261	0.249	0.249	0.236	0.252	0.273	0.273	0.294	0.260	0.231	0.257	7.04	12.0487
	48	Ethyl methacrylate	0.390	0.377	0.380	0.363	0.390	0.413	0.412	0.440	0.410	0.369	0.395	6.05	12.0487
	49	trans-1,3-Dichloropropene	0.205	0.195	0.204	0.181	0.196	0.202	0.196	0.215	0.196	0.177	0.177	5.64	12.3014
	50	1,1,2-Trichloroethane													

11/11/12  
 ML

5	2-Hexanone	0.128	0.116	0.123	0.117	0.123	0.114	0.131	0.112	0.098	0.118	8.05
60	1,3-Dichloropropane	0.447	0.412	0.385	0.403	0.423	0.401	0.442	0.401	0.365	0.409	6.01
61	Tetrachloroethene	0.363	0.347	0.317	0.339	0.335	0.342	0.340	0.357	0.312	0.340	4.76
62	Dibromochloromethane	0.249	0.233	0.235	0.260	0.280	0.280	0.310	0.290	0.266	0.266	9.39
63	2-Ethyl-1-butanol	0.198	0.197	0.190	0.203	0.213	0.209	0.232	0.213	0.193	0.205	6.02
64	1,2-Dibromoethane	0.685	0.649	0.604	0.676	0.678	0.674	0.677	0.699	0.585	0.660	5.61
65	1-Chlorohexane	1.040	0.972	0.887	0.933	0.915	0.949	0.963	0.942	0.814	0.939	6.36
66	Chlorobenzene	0.295	0.290	0.300	0.297	0.308	0.306	0.317	0.308	0.271	0.297	4.58
67	1,1,2-Tetrachloroethane	2.007	1.855	1.918	1.800	1.767	1.733	1.733	1.691	1.349	1.759	9.90
68	Ethylbenzene	1.532	1.415	1.460	1.367	1.312	1.293	1.277	1.220	1.351	1.351	7.48
69	m-Xylene & p-Xylene	1.419	1.362	1.424	1.410	1.381	1.370	1.384	1.342	1.118	1.352	6.63
70	o-Xylene	0.993	0.934	0.890	0.985	0.970	0.947	0.958	0.935	0.788	0.935	6.35
71	Styrene	4.817	4.725	4.698	4.738	4.727	5.349	4.882	4.914	3.857	4.685	8.82
72	1,2-DICHLOROETHENE-D4	0.266	0.276	0.302	0.336	0.374	0.419	0.442	0.407	0.369	0.348	18.12
73	Isopropylbenzene	0.669	0.600	0.589	0.608	0.642	0.669	0.721	0.638	0.566	0.625	8.36
74	Bromoform	1.199	1.104	1.211	1.341	1.297	1.381	1.352	1.302	1.100	1.245	8.32
75	1,1,2,2-Tetrachloroethane	0.152	0.159	0.154	0.167	0.175	0.179	0.200	0.175	0.156	0.168	8.94
76	4-Bromofluorobenzene	6.526	6.372	6.494	6.439	6.376	6.983	6.429	6.432	4.826	6.255	10.76
77	1,2,3-Trichloropropane	1.016	0.938	0.977	0.873	0.979	1.051	1.014	0.874	0.975	0.975	9.47
78	trans-1,4-Dichloro-2-butene	3.974	3.801	3.943	3.821	3.725	4.133	3.854	3.840	3.096	3.761	7.12
79	n-Propylbenzene	4.210	4.102	4.100	3.984	3.898	4.382	4.006	3.896	3.900	3.900	7.92
80	Bromobenzene	3.413	3.269	3.388	3.069	3.084	3.349	3.188	3.200	2.644	3.163	10.14
81	1,3,5-Trimethylbenzene	0.859	0.839	0.903	0.757	0.850	0.942	0.901	0.927	0.779	0.863	7.18
82	Chlorotoluene	3.861	3.723	3.822	3.715	3.602	3.889	3.672	3.561	2.953	3.614	6.95
83	4-Chlorotoluene	5.526	5.294	5.427	4.864	5.139	5.573	5.267	5.291	4.137	5.188	7.83
84	tert-Butylbenzene	4.295	3.940	4.162	3.688	3.947	4.234	3.991	4.044	3.310	3.969	8.10
85	1,2,4-Trimethylbenzene	2.082	1.903	2.018	1.921	1.909	2.097	2.021	1.957	1.621	1.929	7.26
86	sec-Butylbenzene	2.002	1.877	1.880	1.847	1.822	1.971	1.917	1.851	1.555	1.839	7.62
87	p-Isopropyltoluene	4.434	4.242	4.283	4.211	3.945	4.224	3.955	4.025	3.275	4.032	7.30
88	1,3-Dichlorobenzene	1.608	1.561	1.514	1.485	1.454	1.488	1.516	1.491	1.308	1.479	0.00
89	1,4-Dichlorobenzene	0.053	0.074	0.067	0.077	0.073	0.066	0.076	0.075	0.092	0.072	8.35
90	Benzyl chloride	1.046	0.987	1.012	0.911	0.886	0.831	0.842	0.882	0.859	0.927	5.96
91	n-Butylbenzene	0.758	0.691	0.723	0.658	0.647	0.569	0.543	0.606	0.624	0.655	14.38
92	1,2-Dichlorobenzene	1.272	1.206	1.174	1.268	1.128	0.961	1.029	0.977	1.014	1.125	19.27
93	1,2-Dibromo-3-chloropropane	0.768	0.746	0.708	0.773	0.661	0.563	0.547	0.606	0.624	0.655	20.59
94	1,2,4-Trichlorobenzene											20.59
95	Hexachlorobutadiene											20.59
96	Naphthalene											20.59
97	1,2,3-Trichlorobenzene											20.88

Spike Amount = Nominal Amount \* M  
Ave\_RSD : 8.6 Max\_RSD : 25.8

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %\_RSD > 15  
Resp\_Ratio = x0 + x1 \* Amt\_Ratio

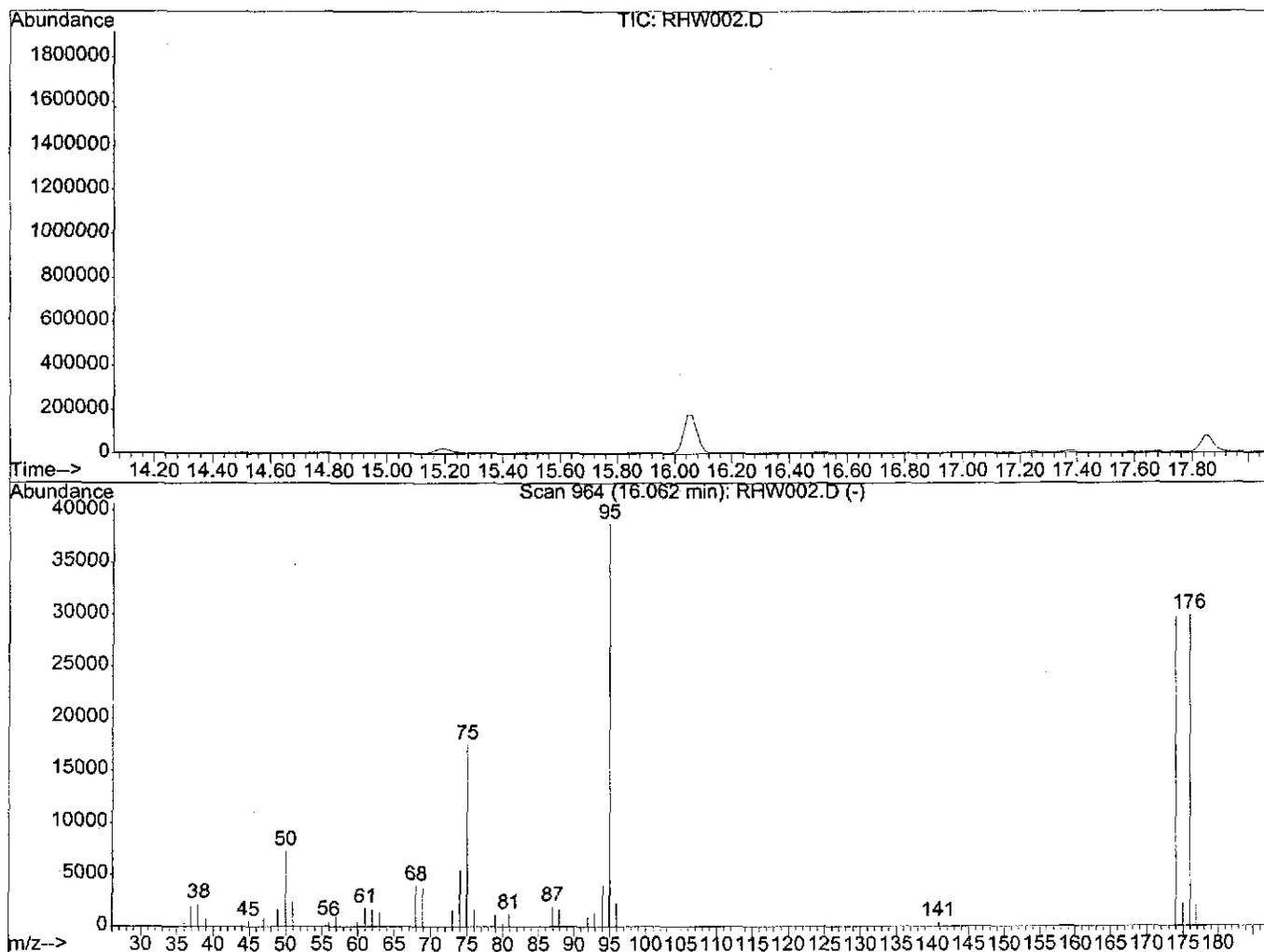
17	Methylene chloride	x0	0.02114	x1	0.34115	CCF	0.9963
33	Tetrahydrofuran		0.00261		0.03837		0.9958
74	Bromoform		-0.00618		0.39310		0.9971

8/20/10  
AL

BFB

Data File : D:\HPCHEM\1\DATA\12H15\RH002.D  
Acq On : 15 Aug 2012 6:53 pm  
Sample : BFB06H01  
Misc : T/ CHK  
MS Integration Params: RTE.P  
Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260

Vial: 2  
Operator: WL  
Inst : T006  
Multiplr: 1.00



Spectrum Information: Scan 964 - Background Scan 957

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	7264	PASS
75	95	30	60	45.1	17496	PASS
95	95	100	100	100.0	38752	PASS
96	95	5	9	5.8	2244	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.8	29768	PASS
175	174	5	9	7.4	2193	PASS
176	174	95	101	100.5	29920	PASS
177	176	5	9	6.9	2057	PASS

*Handwritten:* 2012-08-16

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 Total Cpnds : 97

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	9.15	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	1.89	0.207	A	1	A	B
3	T	Chloromethane	50	2.15	0.235	A	1	A	B
4	T	Vinyl chloride	62	2.29	0.251	A	1	A	B
5	T	Bromomethane	94	2.81	0.308	A	1	A	B
6	T	Chloroethane	64	2.92	0.319	A	2	A	B
7	T	Dichlorofluoromethane	67	2.96	0.324	A	1	A	B
8	T	Trichlorofluoromethane	101	3.25	0.355	A	1	A	B
9	T	Acrolein	56	3.77	0.412	A	1	A	B
10	T	1,1,2-Trichloro-1,2,2-trifluor	151	3.83	0.418	A	1	A	B
11	T	Acetone	43	3.86	0.421	A	2	A	B
12	T	1,1-Dichloroethene	61	4.06	0.444	A	2	A	B
13	T	tert-Butyl alcohol	59	4.15	0.454	A	1	A	B
14	T	Acetonitrile	41	4.24	0.464	A	2	A	B
15	T	Methyl acetate	43	4.54	0.496	A	1	A	B
16	T	Iodomethane	142	4.52	0.495	A	1	A	B
17	T	Methylene chloride	49	4.76	0.521	L✓	2	A	B
18	T	Carbon disulfide	76	4.79	0.524	A	1	A	B
19	T	Acrylonitrile	53	4.97	0.543	A	2	A	B
20	T	tert-Butyl methyl ether (MTBE)	73	5.02	0.548	A	1	A	B
21	T	trans-1,2-Dichloroethene	61	5.24	0.573	A	2	A	B
22	T	Isopropyl ether (DIPE)	45	5.80	0.634	A	1	A	B
23	T	Vinyl acetate	43	6.00	0.655	A	1	A	B
24	T	1,1-Dichloroethane	63	5.97	0.652	A	2	A	B
25	T	2-Butanol	45	6.37	0.696	A	1	A	B
26	T	tert-Butyl ethyl ether (ETBE)	59	6.52	0.712	A	1	A	B
27	T	2-Butanone	43	6.72	0.735	A	1	A	B
28	T	2,2-Dichloropropane	77	6.93	0.758	A	2	A	B
29	T	cis-1,2-Dichloroethene	96	7.02	0.768	A	2	A	B
30	T	Chloroform	83	7.29	0.797	A	2	A	B
31	T	tert-Amyl alcohol	59	7.02	0.768	A	2	A	B
32	T	Bromochloromethane	49	7.56	0.826	A	2	A	B
33	T	Tetrahydrofuran	42	7.62	0.833	L✓	2	A	B
34	S	Dibromofluoromethane	111	7.66	0.837	A	2	A	B
35	T	1,1,1-Trichloroethane	97	7.96	0.870	A	2	A	B
36	T	Cyclohexane	56	7.97	0.872	A	2	A	B
37	T	tert-Amyl methyl ether (TAME)	87	8.43	0.922	A	2	A	B
38	S	1,2-Dichloroethane-d4	65	8.49	0.928	A	1	A	B
39	I	CHLOROBENZENE-D5	117	14.07	1.000	A	2	A	B
40	T	2,2,4-Trimethylpentane	57	8.09	0.575	A	3	A	B
41	T	1,1-Dichloropropene	110	8.21	0.584	A	1	A	B
42	T	Carbon tetrachloride	119	8.38	0.595	A	1	A	B
43	T	1,2-Dichloroethane	62	8.64	0.614	A	1	A	B
44	T	Benzene	78	8.66	0.615	A	2	A	B
45	T	Trichloroethene	130	9.67	0.687	A	3	A	B
46	T	Methylcyclohexane	83	9.76	0.694	A	2	A	B
47	T	1,2-Dichloropropane	63	9.97	0.708	A	2	A	B
48	T	1,4-Dioxane	88	10.38	0.738	A	1	A	B
49	T	Bromodichloromethane	83	10.34	0.735	A	1	A	B
50	T	Dibromomethane	93	10.43	0.741	A	2	A	B
51	T	2-Chloroethyl vinyl ether	63	10.87	0.773	A	2	A	B
52	T	4-Methyl-2-pentanone	43	10.90	0.775	A	3	A	B

53	T	cis-1,3-Dichloropropene	75	11.23	0.798	A	3	A	B
54	S	Toluene-d8	98	11.62	0.826	A	1	A	B
55	T	Toluene	91	11.75	0.835	A	1	A	B
56	T	Ethyl methacrylate	69	12.05	0.856	A	2	A	B
57	T	trans-1,3-Dichloropropene	75	12.05	0.856	A	2	A	B
58	T	1,1,2-Trichloroethane	97	12.30	0.874	A	3	A	B
59	T	2-Hexanone	43	12.32	0.875	A	2	A	B
60	T	1,3-Dichloropropane	76	12.72	0.904	A	1	A	B
61	T	Tetrachloroethene	164	12.81	0.910	A	3	A	B
62	T	Dibromochloromethane	129	13.13	0.933	A	1	A	B
63	T	2-Ethyl-1-butanol	43	0.00	0.000	A	3	A	B
64	T	1,2-Dibromoethane	107	13.46	0.957	A	1	A	B
65	T	1-Chlorohexane	91	13.71	0.975	A	3	A	B
66	T	Chlorobenzene	112	14.13	1.004	A	3	A	B
67	T	1,1,1,2-Tetrachloroethane	131	14.20	1.010	A	3	A	B
68	T	Ethylbenzene	91	14.22	1.011	A	1	A	B
69	T	m-Xylene & p-Xylene	91	14.34	1.019	A	1	A	B
70	T	o-Xylene	91	15.05	1.070	A	1	A	B
71	T	Styrene	104	15.11	1.074	A	2	A	B
72	I	1,2-DICHLOROBENZENE-D4	152	18.34	1.000	A	1	A	B
73	T	Isopropylbenzene	105	15.63	0.852	A	3	A	B
74	T	Bromoform	173	15.68	0.855	L	2	A	B
75	T	1,1,2,2-Tetrachloroethane	83	15.93	0.869	A	1	A	B
76	S	4-Bromofluorobenzene	95	16.05	0.875	A	2	A	B
77	T	1,2,3-Trichloropropane	110	16.17	0.882	A	2	A	B
78	T	trans-1,4-Dichloro-2-butene	53	16.27	0.887	A	1	A	B
79	T	n-Propylbenzene	91	16.28	0.888	A	2	A	B
80	T	Bromobenzene	156	16.37	0.893	A	2	A	B
81	T	1,3,5-Trimethylbenzene	105	16.55	0.903	A	2	A	B
82	T	2-Chlorotoluene	91	16.58	0.904	A	1	A	B
83	T	4-Chlorotoluene	91	16.66	0.908	A	1	A	B
84	T	tert-Butylbenzene	134	17.12	0.934	A	2	A	B
85	T	1,2,4-Trimethylbenzene	105	17.18	0.937	A	1	A	B
86	T	sec-Butylbenzene	105	17.43	0.951	A	1	A	B
87	T	p-Isopropyltoluene	119	17.62	0.961	A	2	A	B
88	T	1,3-Dichlorobenzene	146	17.76	0.968	A	2	A	B
89	T	1,4-Dichlorobenzene	146	17.89	0.976	A	2	A	B
90	T	Benzyl chloride	91	0.00	0.000	A	3	A	B
91	T	n-Butylbenzene	91	18.16	0.990	A	2	A	B
92	T	1,2-Dichlorobenzene	146	18.37	1.002	A	2	A	B
93	T	1,2-Dibromo-3-chloropropane	157	19.27	1.051	A	2	A	B
94	T	1,2,4-Trichlorobenzene	180	20.27	1.105	A	2	A	B
95	T	Hexachlorobutadiene	225	20.42	1.114	A	2	A	B
96	T	Naphthalene	128	20.60	1.123	A	1	A	B
97	T	1,2,3-Trichlorobenzene	180	20.89	1.139	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin  
 #Qual = number of qualifiers

A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO06H15.M

Mon Aug 20 16:00:47 2012

*for  
8-20-12*

Data File : D:\HPCHEM\1\DATA\12H15\RH003.D  
 Acq On : 15 Aug 2012 7:22 pm  
 Sample : VO06H151  
 Misc : 0.3ppb 8260/1.5ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:18 2012

Vial: 2  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1684396	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1435167	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	517438	10.00	ug/l	0.00

## System Monitoring Compounds

34) Dibromofluoromethane	7.66	111	11318	0.22	ug/l	0.00
Spiked Amount	10.000		Recovery	=	2.20%	
38) 1,2-Dichloroethane-d4	8.49	65	10133	0.24	ug/l	0.00
Spiked Amount	10.000		Recovery	=	2.40%	
54) Toluene-d8	11.63	98	46216	0.25	ug/l	0.02
Spiked Amount	10.000		Recovery	=	2.50%	
76) 4-Bromofluorobenzene	16.05	95	18608	0.29	ug/l	0.00
Spiked Amount	10.000		Recovery	=	2.90%	

## Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.89	85	14507	0.33	ug/l	95
3) Chloromethane	2.15	50	16324	0.31	ug/l	95
4) Vinyl chloride	2.30	62	11960	0.31	ug/l	96
5) Bromomethane	2.82	94	8015	0.26	ug/l	91
6) Chloroethane	2.92	64	8121	0.30	ug/l	74
7) Dichlorofluoromethane	2.96	67	29367	0.32	ug/l	99
8) Trichlorofluoromethane	3.23	101	16595	0.28	ug/l	97
9) Acrolein	3.78	56	3687	1.78	ug/l	65
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	9428	0.33	ug/l	88
11) Acetone	3.86	43	24185	4.22	ug/l	99
12) 1,1-Dichloroethene	4.06	61	27348	0.31	ug/l	96
13) tert-Butyl alcohol	4.17	59	2685	1.65	ug/l	# 1
16) Iodomethane	4.53	142	22767	0.30	ug/l	98
17) Methylene chloride	4.76	49	46456	0.19	ug/l	86
18) Carbon disulfide	4.79	76	46963	0.26	ug/l	98
19) Acrylonitrile	4.99	53	10545	1.46	ug/l	93
20) tert-Butyl methyl ether (M	5.02	73	24246	0.31	ug/l	91
21) trans-1,2-Dichloroethene	5.24	61	30059	0.32	ug/l	99
22) Isopropyl ether (DIPE)	5.80	45	56746	0.31	ug/l	98
24) 1,1-Dichloroethane	5.98	63	32299	0.30	ug/l	97
26) tert-Butyl ethyl ether (ET	6.52	59	40951	0.31	ug/l	98
27) 2-Butanone	6.73	43	19744	1.85	ug/l	86
28) 2,2-Dichloropropane	6.95	77	18576	0.35	ug/l	90
29) cis-1,2-Dichloroethene	7.02	96	19051	0.31	ug/l	97
30) Chloroform	7.29	83	32140	0.33	ug/l	96
32) Bromochloromethane	7.56	49	13143	0.31	ug/l	97
33) Tetrahydrofuran	7.63	42	7189	0.43	ug/l	91

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

Data File : D:\HPCHEM\1\DATA\12H15\RHW003.D  
 Acq On : 15 Aug 2012 7:22 pm  
 Sample : VO06H151  
 Misc : 0.3ppb 8260/1.5ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:18 2012

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
35) 1,1,1-Trichloroethane	7.96	97	24502	0.31	ug/l	88
36) Cyclohexane	7.97	56	43516	0.33	ug/l	78
37) tert-Amyl methyl ether (TA	8.44	87	6256	0.30	ug/l #	70
40) 2,2,4-Trimethylpentane	8.09	57	63588	0.27	ug/l #	35
41) 1,1-Dichloropropene	8.23	110	8665	0.31	ug/l	100
42) Carbon tetrachloride	8.39	119	21990	0.30	ug/l	98
43) 1,2-Dichloroethane	8.64	62	17269	0.33	ug/l	98
44) Benzene	8.66	78	75983	0.35	ug/l	97
45) Trichloroethene	9.67	130	20780	0.34	ug/l	97
46) Methylcyclohexane	9.76	83	24772	0.25	ug/l	96
47) 1,2-Dichloropropane	9.97	63	17165	0.31	ug/l	97
49) Bromodichloromethane	10.34	83	19925	0.30	ug/l	96
50) Dibromomethane	10.43	93	7349	0.31	ug/l	97
51) 2-Chloroethyl vinyl ether	10.87	63	4981	0.28	ug/l #	73
52) 4-Methyl-2-pentanone	10.90	43	44301	1.56	ug/l	96
53) cis-1,3-Dichloropropene	11.25	75	23209	0.30	ug/l	97
55) Toluene	11.75	91	73602	0.33	ug/l	100
56) Ethyl methacrylate	12.05	69	11235	0.30	ug/l	92
57) trans-1,3-Dichloropropene	12.05	75	16807	0.30	ug/l	92
58) 1,1,2-Trichloroethane	12.30	97	8823	0.31	ug/l	98
59) 2-Hexanone	12.33	43	27617	1.64	ug/l	97
60) 1,3-Dichloropropane	12.72	76	19240	0.33	ug/l	94
61) Tetrachloroethene	12.81	164	15621	0.32	ug/l	96
62) Dibromochloromethane	13.13	129	10708	0.28	ug/l	95
64) 1,2-Dibromoethane	13.46	107	8536	0.29	ug/l	95
65) 1-Chlorohexane	13.73	91	29482	0.31	ug/l	97
66) Chlorobenzene	14.14	112	44784	0.33	ug/l	88
67) 1,1,1,2-Tetrachloroethane	14.20	131	12704	0.30	ug/l #	73
68) Ethylbenzene	14.22	91	86427	0.34	ug/l	98
69) m-Xylene & p-Xylene	14.34	91	131936	0.68	ug/l	98
70) o-Xylene	15.05	91	61093	0.31	ug/l	98
71) Styrene	15.11	104	42762	0.32	ug/l	98
73) Isopropylbenzene	15.65	105	74776	0.31	ug/l	99
74) Bromoform	15.68	173	4130	0.36	ug/l	96
75) 1,1,2,2-Tetrachloroethane	15.93	83	10379	0.32	ug/l	95
77) 1,2,3-Trichloropropane	16.18	110	2356	0.27	ug/l	78
78) trans-1,4-Dichloro-2-buten	16.29	53	2717	0.28	ug/l #	36
79) n-Propylbenzene	16.30	91	101305	0.31	ug/l	100
80) Bromobenzene	16.37	156	15773	0.31	ug/l	96
81) 1,3,5-Trimethylbenzene	16.55	105	61684	0.32	ug/l	97
82) 2-Chlorotoluene	16.58	91	65346	0.32	ug/l	99

(#) = qualifier out of range (m) = manual integration  
 RHW003.D VO06H15.M Mon Aug 20 16:19:27 2012

*Handwritten:* 8-21-12

Data File : D:\HPCHEM\1\DATA\12H15\RH003.D  
 Acq On : 15 Aug 2012 7:22 pm  
 Sample : VO06H151  
 Misc : 0.3ppb 8260/1.5ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:18 2012

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 4-Chlorotoluene	16.67	91	52975	0.32	ug/l	98
84) tert-Butylbenzene	17.12	134	13332	0.30	ug/l	97
85) 1,2,4-Trimethylbenzene	17.18	105	59939	0.32	ug/l	98
86) sec-Butylbenzene	17.43	105	85786	0.32	ug/l	98
87) p-Isopropyltoluene	17.62	119	66671	0.32	ug/l	99
88) 1,3-Dichlorobenzene	17.76	146	32320	0.32	ug/l	98
89) 1,4-Dichlorobenzene	17.89	146	31083	0.33	ug/l	100
91) n-Butylbenzene	18.16	91	68824	0.33	ug/l	97
92) 1,2-Dichlorobenzene	18.37	146	24955	0.33	ug/l	79
94) 1,2,4-Trichlorobenzene	20.27	180	16240	0.34	ug/l	97
95) Hexachlorobutadiene	20.42	225	11774	0.35	ug/l	97
96) Naphthalene	20.60	128	21918	0.38	ug/l	98
97) 1,2,3-Trichlorobenzene	20.89	180	11923	0.33	ug/l	93

*TL*  
*8-21-12*

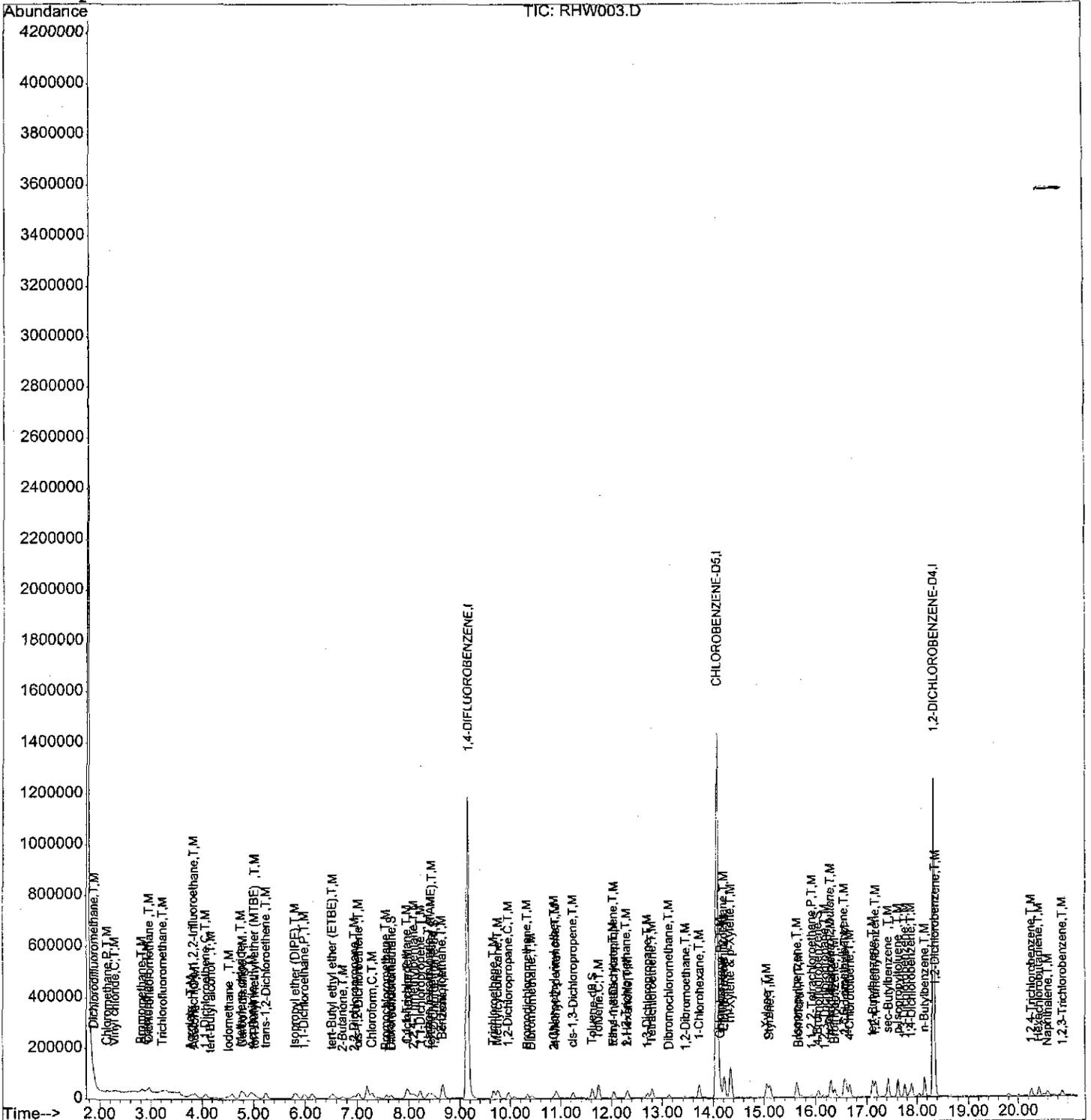
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H15\RH003.D  
Acq On : 15 Aug 2012 7:22 pm  
Sample : VO06H151  
Misc : 0.3ppb 8260/1.5ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 20 16:18 2012

Vial: 2  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



*Handwritten:* 8-21-12

Data File : D:\HPCHEM\1\DATA\12H15\RH004.D  
 Acq On : 15 Aug 2012 7:53 pm  
 Sample : VO06H152  
 Misc : 0.5ppb 8260/2.5ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:22 2012

Vial: 3  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1703617	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1458151	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	509753	10.00	ug/l	0.00

#### System Monitoring Compounds

34) Dibromofluoromethane	7.65	111	21073	0.41	ug/l	-0.01
Spiked Amount	10.000		Recovery	=	4.10%	
38) 1,2-Dichloroethane-d4	8.50	65	19012	0.44	ug/l	0.00
Spiked Amount	10.000		Recovery	=	4.40%	
54) Toluene-d8	11.62	98	83846	0.45	ug/l	0.00
Spiked Amount	10.000		Recovery	=	4.50%	
76) 4-Bromofluorobenzene	16.05	95	28145	0.44	ug/l	0.00
Spiked Amount	10.000		Recovery	=	4.40%	

#### Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.89	85	20953	0.48	ug/l	92
3) Chloromethane	2.15	50	24168	0.46	ug/l	90
4) Vinyl chloride	2.30	62	20387	0.51	ug/l	93
5) Bromomethane	2.82	94	15156	0.48	ug/l	90
6) Chloroethane	2.92	64	11949	0.44	ug/l	83
7) Dichlorofluoromethane	2.96	67	48762	0.52	ug/l	100
8) Trichlorofluoromethane	3.23	101	27297	0.45	ug/l	95
9) Acrolein	3.78	56	4937	2.36	ug/l	81
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	14418	0.50	ug/l	96
11) Acetone	3.87	43	26187	4.51	ug/l	98
12) 1,1-Dichloroethene	4.06	61	43979	0.49	ug/l	99
13) tert-Butyl alcohol	4.15	59	3512	2.13	ug/l	79
15) Methyl acetate	4.54	43	11855	0.63	ug/l	77
16) Iodomethane	4.53	142	36240	0.47	ug/l	99
17) Methylene chloride	4.76	49	56739	0.36	ug/l	88
18) Carbon disulfide	4.79	76	78256	0.43	ug/l	99
19) Acrylonitrile	4.97	53	19079	2.62	ug/l	91
20) tert-Butyl methyl ether (M	5.03	73	43051	0.54	ug/l	100
21) trans-1,2-Dichloroethene	5.22	61	47008	0.50	ug/l	99
22) Isopropyl ether (DIPE)	5.82	45	93324	0.51	ug/l	97
23) Vinyl acetate	6.01	43	29698	0.46	ug/l	95
24) 1,1-Dichloroethane	5.97	63	55031	0.51	ug/l	97
26) tert-Butyl ethyl ether (ET	6.52	59	68382	0.51	ug/l	98
27) 2-Butanone	6.73	43	28920	2.69	ug/l	92
28) 2,2-Dichloropropane	6.93	77	28690	0.53	ug/l	96
29) cis-1,2-Dichloroethene	7.02	96	31993	0.51	ug/l	89
30) Chloroform	7.29	83	50132	0.51	ug/l	99

(#) = qualifier out of range (m) = manual integration  
 RH004.D VO06H15.M Mon Aug 20 16:23:07 2012

*WU*  
*8-2-10*

Data File : D:\HPCHEM\1\DATA\12H15\RH004.D  
 Acq On : 15 Aug 2012 7:53 pm  
 Sample : VO06H152  
 Misc : 0.5ppb 8260/2.5ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:22 2012

Vial: 3  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
32) Bromochloromethane	7.56	49	22619	0.52	ug/l	95
33) Tetrahydrofuran	7.63	42	7871	0.52	ug/l	79
35) 1,1,1-Trichloroethane	7.96	97	40590	0.51	ug/l	99
36) Cyclohexane	7.96	56	82429	0.62	ug/l	81
37) tert-Amyl methyl ether (TA	8.44	87	10588	0.50	ug/l #	85
40) 2,2,4-Trimethylpentane	8.08	57	110317	0.46	ug/l #	65
41) 1,1-Dichloropropene	8.21	110	13848	0.49	ug/l	96
42) Carbon tetrachloride	8.36	119	35393	0.48	ug/l	99
43) 1,2-Dichloroethane	8.64	62	27743	0.52	ug/l	97
44) Benzene	8.66	78	120645	0.55	ug/l	99
45) Trichloroethene	9.67	130	31959	0.51	ug/l	99
46) Methylcyclohexane	9.76	83	49386	0.49	ug/l	98
47) 1,2-Dichloropropane	9.97	63	28981	0.52	ug/l	97
48) 1,4-Dioxane	10.40	88	1259	7.27	ug/l	98
49) Bromodichloromethane	10.34	83	31930	0.47	ug/l	95
50) Dibromomethane	10.41	93	12143	0.50	ug/l	98
51) 2-Chloroethyl vinyl ether	10.87	63	8158	0.45	ug/l	96
52) 4-Methyl-2-pentanone	10.92	43	71062	2.46	ug/l	98
53) cis-1,3-Dichloropropene	11.23	75	37625	0.48	ug/l	97
55) Toluene	11.75	91	119529	0.52	ug/l	98
56) Ethyl methacrylate	12.05	69	18134	0.48	ug/l	95
57) trans-1,3-Dichloropropene	12.05	75	27503	0.48	ug/l	95
58) 1,1,2-Trichloroethane	12.30	97	14233	0.50	ug/l	98
59) 2-Hexanone	12.33	43	41670	2.43	ug/l	98
60) 1,3-Dichloropropane	12.72	76	30041	0.50	ug/l	96
61) Tetrachloroethene	12.81	164	25302	0.51	ug/l	99
62) Dibromochloromethane	13.13	129	17004	0.44	ug/l	97
64) 1,2-Dibromoethane	13.46	107	14398	0.48	ug/l	98
65) 1-Chlorohexane	13.71	91	47313	0.49	ug/l	95
66) Chlorobenzene	14.13	112	70862	0.52	ug/l	84
67) 1,1,1,2-Tetrachloroethane	14.20	131	21147	0.49	ug/l	90
68) Ethylbenzene	14.22	91	135256	0.53	ug/l	99
69) m-Xylene & p-Xylene	14.34	91	206361	1.05	ug/l	99
70) o-Xylene	15.05	91	99288	0.50	ug/l	98
71) Styrene	15.11	104	68116	0.50	ug/l	99
73) Isopropylbenzene	15.65	105	120430	0.50	ug/l	99
74) Bromoform	15.68	173	7043	0.51	ug/l	96
75) 1,1,2,2-Tetrachloroethane	15.91	83	15303	0.48	ug/l	97
77) 1,2,3-Trichloropropane	16.17	110	4052	0.47	ug/l	90
78) trans-1,4-Dichloro-2-buten	16.29	53	4776	0.50	ug/l	81
79) n-Propylbenzene	16.30	91	162398	0.51	ug/l	99

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

RH004.D VO06H15.M Mon Aug 20 16:23:08 2012

*Handwritten:* RW 8-20-12

Data File : D:\HPCHEM\1\DATA\12H15\RH004.D  
 Acq On : 15 Aug 2012 7:53 pm  
 Sample : VO06H152  
 Misc : 0.5ppb 8260/2.5ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:22 2012

Vial: 3  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
80) Bromobenzene	16.37	156	23899	0.48	ug/l	93
81) 1,3,5-Trimethylbenzene	16.55	105	96883	0.51	ug/l	99
82) 2-Chlorotoluene	16.58	91	104548	0.53	ug/l	97
83) 4-Chlorotoluene	16.66	91	83320	0.52	ug/l	99
84) tert-Butylbenzene	17.12	134	21385	0.49	ug/l	94
85) 1,2,4-Trimethylbenzene	17.18	105	94900	0.52	ug/l	98
86) sec-Butylbenzene	17.43	105	134927	0.51	ug/l	99
87) p-Isopropyltoluene	17.62	119	100414	0.50	ug/l	98
88) 1,3-Dichlorobenzene	17.76	146	48506	0.49	ug/l	97
89) 1,4-Dichlorobenzene	17.89	146	47842	0.51	ug/l	99
91) n-Butylbenzene	18.16	91	108127	0.53	ug/l	98
92) 1,2-Dichlorobenzene	18.37	146	39789	0.53	ug/l	89
93) 1,2-Dibromo-3-chloropropan	19.27	157	1350	0.37	ug/l	90
94) 1,2,4-Trichlorobenzene	20.27	180	25155	0.53	ug/l	99
95) Hexachlorobutadiene	20.42	225	17616	0.53	ug/l	98
96) Naphthalene	20.60	128	32432	0.57	ug/l	97
97) 1,2,3-Trichlorobenzene	20.88	180	19010	0.54	ug/l	98

*Aug 20-12*

(#) = qualifier out of range (m) = manual integration  
 RHW004.D VO06H15.M Mon Aug 20 16:23:08 2012

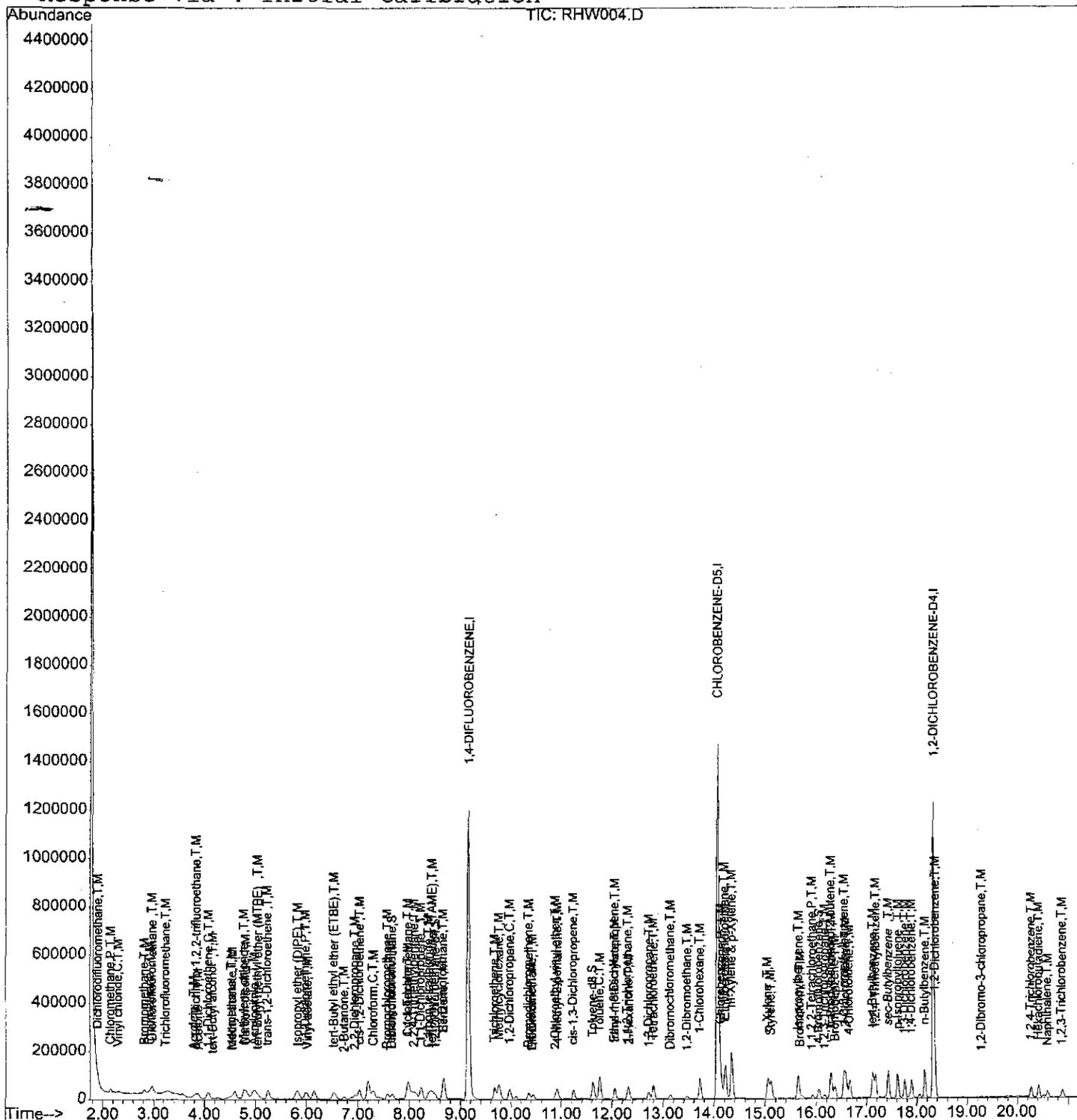
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H15\RHW004.D  
Acq On : 15 Aug 2012 7:53 pm  
Sample : VO06H152  
Misc : 0.5ppb 8260/2.5ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 20 16:22 2012

Vial: 3  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



*Handwritten:* 8-21-12

Data File : D:\HPCHEM\1\DATA\12H15\RHWO05.D

Vial: 4

Acq On : 15 Aug 2012 8:23 pm

Operator: WL

Sample : VO06H153

Inst : TO06

Misc : 1.0ppb 8260/5.0ppb KET-AA-TBA

Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 20 16:16 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1673201	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1429024	10.00	ug/l	0.00
72) 1,2-DICHLOROETHANE-D4	18.34	152	505065	10.00	ug/l	0.00

## System Monitoring Compounds

34) Dibromofluoromethane	7.66	111	51245	1.01	ug/l	0.00
Spiked Amount	10.000		Recovery	=	10.10%	
38) 1,2-Dichloroethane-d4	8.50	65	45565	1.08	ug/l	0.00
Spiked Amount	10.000		Recovery	=	10.80%	
54) Toluene-d8	11.62	98	186357	1.02	ug/l	0.00
Spiked Amount	10.000		Recovery	=	10.20%	
76) 4-Bromofluorobenzene	16.05	95	61162	0.97	ug/l	0.00
Spiked Amount	10.000		Recovery	=	9.70%	

## Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.89	85	39436	0.91	ug/l	97
3) Chloromethane	2.15	50	50246	0.97	ug/l	98
4) Vinyl chloride	2.30	62	38471	0.99	ug/l	100
5) Bromomethane	2.82	94	26982	0.86	ug/l	97
6) Chloroethane	2.92	64	24082	0.90	ug/l	70
7) Dichlorofluoromethane	2.96	67	100275	1.09	ug/l	100
8) Trichlorofluoromethane	3.23	101	52299	0.88	ug/l	95
9) Acrolein	3.78	56	10247	4.98	ug/l	90
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	28048	1.00	ug/l	99
11) Acetone	3.87	43	40947	7.19	ug/l	94
12) 1,1-Dichloroethene	4.06	61	91023	1.04	ug/l	99
13) tert-Butyl alcohol	4.18	59	7773	4.81	ug/l	# 1
15) Methyl acetate	4.54	43	20435	1.10	ug/l	88
16) Iodomethane	4.53	142	77217	1.02	ug/l	97
17) Methylene chloride	4.76	49	91847	0.99	ug/l	87
18) Carbon disulfide	4.79	76	173107	0.96	ug/l	99
19) Acrylonitrile	4.97	53	35595	4.97	ug/l	96
20) tert-Butyl methyl ether (M	5.02	73	81211	1.03	ug/l	96
21) trans-1,2-Dichloroethene	5.24	61	97779	1.05	ug/l	99
22) Isopropyl ether (DIPE)	5.80	45	190111	1.05	ug/l	100
23) Vinyl acetate	6.01	43	59347	0.94	ug/l	93
24) 1,1-Dichloroethane	5.98	63	111862	1.05	ug/l	98
25) 2-Butanol	6.40	45	7406	4.68	ug/l	# 1
26) tert-Butyl ethyl ether (ET	6.52	59	135737	1.03	ug/l	99
27) 2-Butanone	6.73	43	56503	5.34	ug/l	95
28) 2,2-Dichloropropane	6.95	77	59565	1.12	ug/l	99
29) cis-1,2-Dichloroethene	7.02	96	64723	1.06	ug/l	92

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

RHWO05.D VO06H15.M

Mon Aug 20 16:24:50 2012

Page 1

Data File : D:\HPCHEM\1\DATA\12H15\RH005.D  
 Acq On : 15 Aug 2012 8:23 pm  
 Sample : VO06H153  
 Misc : 1.0ppb 8260/5.0ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:16 2012

Vial: 4  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) Chloroform	7.29	83	103368	1.07	ug/l	99
32) Bromochloromethane	7.56	49	44249	1.04	ug/l	98
33) Tetrahydrofuran	7.63	42	11616	1.13	ug/l	88
35) 1,1,1-Trichloroethane	7.96	97	83109	1.06	ug/l	98
36) Cyclohexane	7.98	56	129179	0.99	ug/l	99
37) tert-Amyl methyl ether (TA	8.44	87	20999	1.02	ug/l	# 87
40) 2,2,4-Trimethylpentane	8.08	57	245956	1.06	ug/l	98
41) 1,1-Dichloropropene	8.23	110	28608	1.03	ug/l	96
42) Carbon tetrachloride	8.38	119	74094	1.02	ug/l	99
43) 1,2-Dichloroethane	8.66	62	56571	1.08	ug/l	98
44) Benzene	8.66	78	232071	1.07	ug/l	99
45) Trichloroethene	9.67	130	60521	0.98	ug/l	96
46) Methylcyclohexane	9.76	83	102096	1.03	ug/l	100
47) 1,2-Dichloropropane	9.97	63	56714	1.03	ug/l	95
48) 1,4-Dioxane	10.40	88	2768	16.30	ug/l	83
49) Bromodichloromethane	10.34	83	64730	0.97	ug/l	100
50) Dibromomethane	10.43	93	24178	1.02	ug/l	99
51) 2-Chloroethyl vinyl ether	10.87	63	16592	0.94	ug/l	95
52) 4-Methyl-2-pentanone	10.92	43	139657	4.94	ug/l	98
53) cis-1,3-Dichloropropene	11.25	75	73739	0.96	ug/l	97
55) Toluene	11.75	91	236657	1.06	ug/l	97
56) Ethyl methacrylate	12.05	69	35532	0.97	ug/l	96
57) trans-1,3-Dichloropropene	12.05	75	54367	0.96	ug/l	99
58) 1,1,2-Trichloroethane	12.30	97	29119	1.04	ug/l	97
59) 2-Hexanone	12.33	43	83000	4.94	ug/l	97
60) 1,3-Dichloropropane	12.72	76	59265	1.01	ug/l	97
61) Tetrachloroethene	12.81	164	50330	1.03	ug/l	98
62) Dibromochloromethane	13.13	129	35608	0.94	ug/l	94
64) 1,2-Dibromoethane	13.46	107	28307	0.97	ug/l	95
65) 1-Chlorohexane	13.73	91	96208	1.02	ug/l	98
66) Chlorobenzene	14.13	112	139335	1.04	ug/l	92
67) 1,1,1,2-Tetrachloroethane	14:20	131	42927	1.01	ug/l	95
68) Ethylbenzene	14.22	91	274158	1.09	ug/l	100
69) m-Xylene & p-Xylene	14.35	91	417376	2.16	ug/l	98
70) o-Xylene	15.05	91	203488	1.05	ug/l	100
71) Styrene	15.11	104	135649	1.02	ug/l	98
73) Isopropylbenzene	15.65	105	237288	1.00	ug/l	99
74) Bromoform	15.68	173	15268	0.93	ug/l	94
75) 1,1,2,2-Tetrachloroethane	15.93	83	29732	0.94	ug/l	95
77) 1,2,3-Trichloropropane	16.17	110	8010	0.95	ug/l	93
78) trans-1,4-Dichloro-2-buten	16.29	53	9117	0.96	ug/l	85

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

RH005.D VO06H15.M Mon Aug 20 16:24:51 2012

8-21-12 Page 2

2056

Data File : D:\HPCHEM\1\DATA\12H15\RH005.D  
 Acq On : 15 Aug 2012 8:23 pm  
 Sample : VO06H153  
 Misc : 1.0ppb 8260/5.0ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:16 2012

Vial: 4  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) n-Propylbenzene	16.30	91	327991	1.04	ug/l	99
80) Bromobenzene	16.38	156	49366	1.00	ug/l	97
81) 1,3,5-Trimethylbenzene	16.55	105	199135	1.05	ug/l	100
82) 2-Chlorotoluene	16.58 ✓	91	207086	1.05	ug/l	100
83) 4-Chlorotoluene	16.67 ✓	91	171135	1.07	ug/l	98
84) tert-Butylbenzene	17.12	134	45587	1.05	ug/l	98
85) 1,2,4-Trimethylbenzene	17.18 ✓	105	193048	1.06	ug/l	98
86) sec-Butylbenzene	17.43 ✓	105	274112	1.05	ug/l	99
87) p-Isopropyltoluene	17.62	119	210230	1.05	ug/l	99
88) 1,3-Dichlorobenzene	17.76 ✓	146	101947	1.05	ug/l	99
89) 1,4-Dichlorobenzene	17.91 ✓	146	94960	1.02	ug/l	100
91) n-Butylbenzene	18.16	91	216306	1.06	ug/l	99
92) 1,2-Dichlorobenzene	18.37	146	76455	1.02	ug/l	92
93) 1,2-Dibromo-3-chloropropan	19.27	157	3715	1.01	ug/l	95
94) 1,2,4-Trichlorobenzene	20.27	180	51109	1.09	ug/l	100
95) Hexachlorobutadiene	20.43	225	36524	1.10	ug/l	98
96) Naphthalene	20.60	128	65964	1.16	ug/l	99
97) 1,2,3-Trichlorobenzene	20.89	180	39673	1.13	ug/l	97

*WL*  
*8-21-12*

(#) = qualifier out of range (m) = manual integration  
 RH005.D VO06H15.M Mon Aug 20 16:24:51 2012



Data File : D:\HPCHEM\1\DATA\12H15\RHWO06.D  
 Acq On : 15 Aug 2012 8:54 pm  
 Sample : VO06H154  
 Misc : 2.0ppb 8260/10ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:16 2012

Vial: 5  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1618568	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1396085	10.00	ug/l	0.00
72) 1,2-DICHLOROETHANE-D4	18.34	152	508493	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.65	111	101453	2.08	ug/l	0.00
Spiked Amount	10.000		Recovery	=	20.80%	
38) 1,2-Dichloroethane-d4	8.48	65	86205	2.11	ug/l	0.00
Spiked Amount	10.000		Recovery	=	21.10%	
54) Toluene-d8	11.62	98	368158	2.07	ug/l	0.00
Spiked Amount	10.000		Recovery	=	20.70%	
76) 4-Bromofluorobenzene	16.05	95	117946	1.86	ug/l	0.00
Spiked Amount	10.000		Recovery	=	18.60%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.90	85	82608	1.98	ug/l	96
3) Chloromethane	2.15	50	105880	2.11	ug/l	99
4) Vinyl chloride	2.30	62	85560	2.27	ug/l	99
5) Bromomethane	2.81	94	63968	2.12	ug/l	98
6) Chloroethane	2.92	64	55972	2.17	ug/l	96
7) Dichlorofluoromethane	2.95	67	167155	1.88	ug/l	99
8) Trichlorofluoromethane	3.24	101	120111	2.09	ug/l	99
9) Acrolein	3.77	56	19857	9.99	ug/l	88
10) 1,1,2-Trichloro-1,2,2-trif	3.82	151	47113	1.73	ug/l	99
11) Acetone	3.86	43	67002	12.15	ug/l	98
12) 1,1-Dichloroethene	4.07	61	159017	1.87	ug/l	99
13) tert-Butyl alcohol	4.16	59	14837	9.48	ug/l	89
15) Methyl acetate	4.54	43	38601	2.14	ug/l	93
16) Iodomethane	4.53	142	133840	1.84	ug/l	100
17) Methylene chloride	4.81	49	141893	1.95	ug/l	96
18) Carbon disulfide	4.80	76	357660	2.06	ug/l	98
19) Acrylonitrile	4.98	53	75207	10.86	ug/l	98
20) tert-Butyl methyl ether (M	5.02	73	147462	1.94	ug/l	98
21) trans-1,2-Dichloroethene	5.23	61	171235	1.90	ug/l	99
22) Isopropyl ether (DIPE)	5.81	45	335920	1.92	ug/l	100
23) Vinyl acetate	6.00	43	132604	2.18	ug/l	98
24) 1,1-Dichloroethane	5.97	63	201521	1.96	ug/l	98
25) 2-Butanol	6.39	45	16314	10.66	ug/l	100
26) tert-Butyl ethyl ether (ET	6.52	59	249404	1.95	ug/l	97
27) 2-Butanone	6.72	43	102090	9.98	ug/l	100
28) 2,2-Dichloropropane	6.94	77	100286	1.94	ug/l	97
29) cis-1,2-Dichloroethene	7.03	96	116215	1.96	ug/l	95

(#) = qualifier out of range (m) = manual integration  
 RHWO06.D VO06H15.M Mon Aug 20 16:25:54 2012

*WL*  
*8-21-12*

Data File : D:\HPCHEM\1\DATA\12H15\RHWO06.D

Vial: 5

Acq On : 15 Aug 2012 8:54 pm

Operator: WL

Sample : VO06H154

Inst : TO06

Misc : 2.0ppb 8260/10ppb KET-AA-TBA

Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 20 16:16 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) Chloroform	7.30	83	182486	1.95	ug/l	99
32) Bromochloromethane	7.56	49	79143	1.92	ug/l	97
33) Tetrahydrofuran	7.64	42	15988	1.89	ug/l	92
35) 1,1,1-Trichloroethane	7.95	97	145342	1.91	ug/l	98
36) Cyclohexane	7.98	56	249186	1.98	ug/l	98
37) tert-Amyl methyl ether (TA	8.43	87	37682	1.89	ug/l	# 92
40) 2,2,4-Trimethylpentane	8.10	57	487559	2.14	ug/l	# 72
41) 1,1-Dichloropropene	8.22	110	50224	1.85	ug/l	98
42) Carbon tetrachloride	8.38	119	123566	1.75	ug/l	98
43) 1,2-Dichloroethane	8.65	62	98273	1.92	ug/l	98
44) Benzene	8.66	78	397990	1.89	ug/l	100
45) Trichloroethene	9.67	130	107729	1.79	ug/l	98
46) Methylcyclohexane	9.76	83	202463	2.08	ug/l	99
47) 1,2-Dichloropropane	9.96	63	101276	1.89	ug/l	98
48) 1,4-Dioxane	10.39	88	5668	34.16	ug/l	86
49) Bromodichloromethane	10.34	83	118900	1.83	ug/l	98
50) Dibromomethane	10.43	93	42323	1.82	ug/l	96
51) 2-Chloroethyl vinyl ether	10.86	63	30948	1.79	ug/l	96
52) 4-Methyl-2-pentanone	10.91	43	287213	10.41	ug/l	100
53) cis-1,3-Dichloropropene	11.24	75	137917	1.83	ug/l	98
55) Toluene	11.74	91	422830	1.93	ug/l	100
56) Ethyl methacrylate	12.05	69	65922	1.84	ug/l	99
57) trans-1,3-Dichloropropene	12.05	75	101468	1.84	ug/l	99
58) 1,1,2-Trichloroethane	12.31	97	50525	1.84	ug/l	98
59) 2-Hexanone	12.32	43	172004	10.47	ug/l	99
60) 1,3-Dichloropropane	12.71	76	107465	1.88	ug/l	99
61) Tetrachloroethene	12.80	164	88580	1.86	ug/l	99
62) Dibromochloromethane	13.14	129	65524	1.77	ug/l	100
64) 1,2-Dibromoethane	13.45	107	53132	1.86	ug/l	98
65) 1-Chlorohexane	13.72	91	168675	1.83	ug/l	98
66) Chlorobenzene	14.13	112	247756	1.89	ug/l	97
67) 1,1,1,2-Tetrachloroethane	14.21	131	78848	1.90	ug/l	97
68) Ethylbenzene	14.22	91	482379	1.96	ug/l	99
69) m-Xylene & p-Xylene	14.34	91	715107	3.79	ug/l	99
70) o-Xylene	15.06	91	365341	1.94	ug/l	99
71) Styrene	15.12	104	248576	1.90	ug/l	99
73) Isopropylbenzene	15.64	105	421211	1.77	ug/l	99
74) Bromoform	15.67	173	29596	1.64	ug/l	94
75) 1,1,2,2-Tetrachloroethane	15.92	83	56006	1.76	ug/l	98
77) 1,2,3-Trichloropropane	16.17	110	15679	1.84	ug/l	96
78) trans-1,4-Dichloro-2-buten	16.28	53	15639	1.64	ug/l	98

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

RHWO06.D VO06H15.M Mon Aug 20 16:25:55 2012

TW  
8-21-12

Page 2

2060

Data File : D:\HPCHEM\1\DATA\12H15\RH006.D  
 Acq On : 15 Aug 2012 8:54 pm  
 Sample : VO06H154  
 Misc : 2.0ppb 8260/10ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:16 2012

Vial: 5  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) n-Propylbenzene	16.29	91	577309	1.81	ug/l	100
80) Bromobenzene	16.38	156	88741	1.79	ug/l	99
81) 1,3,5-Trimethylbenzene	16.54	105	347648	1.82	ug/l	100
82) 2-Chlorotoluene	16.59	91	339754	1.71	ug/l	94
83) 4-Chlorotoluene	16.66	91	312137	1.94	ug/l	92
84) tert-Butylbenzene	17.12	134	77031	1.76	ug/l	94
85) 1,2,4-Trimethylbenzene	17.18	105	339828	1.85	ug/l	99
86) sec-Butylbenzene	17.43	105	494666	1.88	ug/l	98
87) p-Isopropyltoluene	17.61	119	375039	1.86	ug/l	99
88) 1,3-Dichlorobenzene	17.76	146	178657	1.82	ug/l	100
89) 1,4-Dichlorobenzene	17.90	146	169913	1.82	ug/l	99
91) n-Butylbenzene	18.15	91	378504	1.85	ug/l	99
92) 1,2-Dichlorobenzene	18.37	146	138371	1.84	ug/l	96
93) 1,2-Dibromo-3-chloropropan	19.26	157	6831	1.85	ug/l	93
94) 1,2,4-Trichlorobenzene	20.27	180	92641	1.96	ug/l	100
95) Hexachlorobutadiene	20.42	225	66920	2.01	ug/l	99
96) Naphthalene	20.59	128	119352	2.09	ug/l	99
97) 1,2,3-Trichlorobenzene	20.88	180	71975	2.04	ug/l	100

*Aug 21-12*



Data File : D:\HPCHEM\1\DATA\12H15\RH007.D  
 Acq On : 15 Aug 2012 9:23 pm  
 Sample : VO06H155  
 Misc : 5.0ppb 8260/25ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:16 2012

Vial: 6  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1604526	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1363601	10.00	ug/l	0.00
72) 1,2-DICHLOROETHANE-D4	18.34	152	475284	10.00	ug/l	0.00

#### System Monitoring Compounds

34) Dibromofluoromethane	7.66	111	272737	5.63	ug/l	0.00
Spiked Amount	10.000		Recovery	=	56.30%	
38) 1,2-Dichloroethane-d4	8.49	65	223713	5.53	ug/l	0.00
Spiked Amount	10.000		Recovery	=	55.30%	
54) Toluene-d8	11.62	98	991496	5.70	ug/l	0.00
Spiked Amount	10.000		Recovery	=	57.00%	
76) 4-Bromofluorobenzene	16.05	95	318737	5.39	ug/l	0.00
Spiked Amount	10.000		Recovery	=	53.90%	

#### Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.89	85	227348	5.49	ug/l	99
3) Chloromethane	2.15	50	274065	5.51	ug/l	99
4) Vinyl chloride	2.29	62	220559	5.91	ug/l	100
5) Bromomethane	2.82	94	174139	5.82	ug/l	98
6) Chloroethane	2.92	64	142362	5.57	ug/l	99
7) Dichlorofluoromethane	2.96	67	447796	5.08	ug/l	99
8) Trichlorofluoromethane	3.25	101	332011	5.82	ug/l	100
9) Acrolein	3.77	56	48101	24.40	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	135307	5.02	ug/l	98
11) Acetone	3.87	43	133634	24.45	ug/l	99
12) 1,1-Dichloroethene	4.06	61	428148	5.08	ug/l	99
13) tert-Butyl alcohol	4.15	59	38933	25.10	ug/l	96
15) Methyl acetate	4.54	43	94696	5.30	ug/l	95
16) Iodomethane	4.53	142	368460	5.10	ug/l	100
17) Methylene chloride	4.76	49	330793	5.42	ug/l	88
18) Carbon disulfide	4.79	76	909489	5.28	ug/l	98
19) Acrylonitrile	4.97	53	169870	24.74	ug/l	99
20) tert-Butyl methyl ether (M	5.02	73	373095	4.95	ug/l	99
21) trans-1,2-Dichloroethene	5.24	61	460561	5.16	ug/l	99
22) Isopropyl ether (DIPE)	5.80	45	878334	5.06	ug/l	99
23) Vinyl acetate	6.00	43	327957	5.44	ug/l	99
24) 1,1-Dichloroethane	5.97	63	533874	5.23	ug/l	99
25) 2-Butanol	6.38	45	40749	26.87	ug/l	100
26) tert-Butyl ethyl ether (ET	6.52	59	628638	4.95	ug/l	100
27) 2-Butanone	6.73	43	229024	22.58	ug/l	99
28) 2,2-Dichloropropane	6.95	77	271706	5.31	ug/l	99
29) cis-1,2-Dichloroethene	7.02	96	296030	5.05	ug/l	98

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

RH007.D VO06H15.M Mon Aug 20 16:26:55 2012

*Handwritten:* m 8-21-12

Data File : D:\HPCHEM\1\DATA\12H15\RH007.D

Vial: 6

Acq On : 15 Aug 2012 9:23 pm

Operator: WL

Sample : VO06H155

Inst : TO06

Misc : 5.0ppb 8260/25ppb KET-AA-TBA

Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 20 16:16 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) Chloroform	7.29	83	466289	5.02	ug/l	99
32) Bromochloromethane	7.56	49	201195	4.93	ug/l	99
33) Tetrahydrofuran	7.62	42	33501	4.76	ug/l	96
35) 1,1,1-Trichloroethane	7.96	97	394281	5.22	ug/l	99
36) Cyclohexane	7.97	56	662284	5.30	ug/l	97
37) tert-Amyl methyl ether (TA	8.44	87	95347	4.82	ug/l	97
40) 2,2,4-Trimethylpentane	8.06	57	1257309	5.66	ug/l	# 71
41) 1,1-Dichloropropene	8.23	110	133700	5.04	ug/l	99
42) Carbon tetrachloride	8.38	119	347046	5.03	ug/l	100
43) 1,2-Dichloroethane	8.64	62	248640	4.97	ug/l	98
44) Benzene	8.66	78	1003623	4.87	ug/l	99
45) Trichloroethene	9.67	130	294680	5.01	ug/l	99
46) Methylcyclohexane	9.74	83	556650	5.86	ug/l	99
47) 1,2-Dichloropropane	9.97	63	258681	4.95	ug/l	99
48) 1,4-Dioxane	10.38	88	17298	106.75	ug/l	93
49) Bromodichloromethane	10.34	83	314611	4.95	ug/l	100
50) Dibromomethane	10.43	93	112515	4.96	ug/l	100
51) 2-Chloroethyl vinyl ether	10.86	63	84096	4.98	ug/l	97
52) 4-Methyl-2-pentanone	10.90	43	666513	24.72	ug/l	99
53) cis-1,3-Dichloropropene	11.23	75	370435	5.04	ug/l	99
55) Toluene	11.75	91	1094034	5.12	ug/l	100
56) Ethyl methacrylate	12.05	69	172024	4.91	ug/l	98
57) trans-1,3-Dichloropropene	12.05	75	265645	4.94	ug/l	98
58) 1,1,2-Trichloroethane	12.30	97	133903	4.99	ug/l	99
59) 2-Hexanone	12.32	43	398004	24.80	ug/l	99
60) 1,3-Dichloropropane	12.72	76	274852	4.92	ug/l	99
61) Tetrachloroethene	12.81	164	231048	4.98	ug/l	98
62) Dibromochloromethane	13.13	129	177559	4.91	ug/l	100
64) 1,2-Dibromoethane	13.46	107	138373	4.96	ug/l	100
65) 1-Chlorohexane	13.71	91	460739	5.12	ug/l	99
66) Chlorobenzene	14.13	112	636167	4.97	ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.20	131	202193	4.99	ug/l	99
68) Ethylbenzene	14.22	91	1226929	5.12	ug/l	99
69) m-Xylene & p-Xylene	14.34	91	1863799	10.12	ug/l	99
70) o-Xylene	15.05	91	961229	5.22	ug/l	98
71) Styrene	15.11	104	671239	5.27	ug/l	99
73) Isopropylbenzene	15.63	105	1125864	5.06	ug/l	100
74) Bromoform	15.68	173	79924	4.44	ug/l	98
75) 1,1,2,2-Tetrachloroethane	15.93	83	144519	4.86	ug/l	99
77) 1,2,3-Trichloropropane	16.17	110	39777	4.99	ug/l	95
78) trans-1,4-Dichloro-2-buten	16.27	53	44561	4.98	ug/l	94

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

RH007.D VO06H15.M

Mon Aug 20 16:26:56 2012

7/1  
8-21-12

Page 2

2064

Data File : D:\HPCHEM\1\DATA\12H15\RH007.D

Vial: 6

Acq On : 15 Aug 2012 9:23 pm

Operator: WL

Sample : VO06H155

Inst : TO06

Misc : 5.0ppb 8260/25ppb KET-AA-TBA

Multiplr: 1.00

MS Integration Params: RTE.P

Quant Time: Aug 20 16:16 2012

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)

Title : METHOD 8260

Last Update : Mon Aug 20 15:50:24 2012

Response via : Initial Calibration

DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) n-Propylbenzene	16.29	91	1530106	5.15	ug/l	100
80) Bromobenzene	16.37	156	225647	4.87	ug/l	100
81) 1,3,5-Trimethylbenzene	16.55	105	908147	5.08	ug/l	99
82) 2-Chlorotoluene	16.58	91	946708	5.11	ug/l	100
83) 4-Chlorotoluene	16.66	91	719573	4.79	ug/l	100
84) tert-Butylbenzene	17.12	134	207964	5.07	ug/l	98
85) 1,2,4-Trimethylbenzene	17.18	105	882877	5.14	ug/l	99
86) sec-Butylbenzene	17.43	105	1274782	5.17	ug/l	99
87) p-Isopropyltoluene	17.62	119	969946	5.14	ug/l	99
88) 1,3-Dichlorobenzene	17.76	146	456443	4.98	ug/l	99
89) 1,4-Dichlorobenzene	17.89	146	438860	5.02	ug/l	100
91) n-Butylbenzene	18.14	91	1000797	5.22	ug/l	99
92) 1,2-Dichlorobenzene	18.37	146	352899	5.02	ug/l	99
93) 1,2-Dibromo-3-chloropropan	19.27	157	18345	5.33	ug/l	98
94) 1,2,4-Trichlorobenzene	20.27	180	242082	5.49	ug/l	99
95) Hexachlorobutadiene	20.42	225	174184	5.59	ug/l	99
96) Naphthalene	20.60	128	301325	5.63	ug/l	100
97) 1,2,3-Trichlorobenzene	20.89	180	183762	5.57	ug/l	99

*Handwritten:*  
 7/1  
 8-21-12

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

RH007.D VO06H15.M Mon Aug 20 16:26:56 2012

Page 3

2055



Data File : D:\HPCHEM\1\DATA\12H15\RHWO08.D  
 Acq On : 15 Aug 2012 9:54 pm  
 Sample : VO06H156  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:16 2012

Vial: 7  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1654332	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1432235	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	489315	10.00	ug/l	0.00

#### System Monitoring Compounds

34) Dibromofluoromethane	7.66	111	547360	10.96	ug/l	0.00
Spiked Amount	10.000		Recovery	=	109.60%	
38) 1,2-Dichloroethane-d4	8.49	65	460705	11.04	ug/l	0.00
Spiked Amount	10.000		Recovery	=	110.40%	
54) Toluene-d8	11.62	98	1938847	10.61	ug/l	0.00
Spiked Amount	10.000		Recovery	=	106.10%	
76) 4-Bromofluorobenzene	16.05	95	634772	10.42	ug/l	0.00
Spiked Amount	10.000		Recovery	=	104.20%	

#### Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.89	85	427306	10.02	ug/l	100
3) Chloromethane	2.15	50	528794	10.31	ug/l	100
4) Vinyl chloride	2.29	62	390122	10.13	ug/l	100
5) Bromomethane	2.81	94	334700	10.85	ug/l	100
6) Chloroethane	2.92	64	288185	10.95	ug/l	100
7) Dichlorofluoromethane	2.96	67	949901	10.46	ug/l	100
8) Trichlorofluoromethane	3.25	101	618983	10.53	ug/l	100
9) Acrolein	3.77	56	103473	50.91	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	279245	10.04	ug/l	100
11) Acetone	3.86	43	281216	49.91	ug/l	100
12) 1,1-Dichloroethene	4.06	61	883388	10.17	ug/l	100
13) tert-Butyl alcohol	4.15	59	91451	57.19	ug/l	100
15) Methyl acetate	4.54	43	172219	9.36	ug/l	100
16) Iodomethane	4.52	142	752457	10.10	ug/l	100
17) Methylene chloride	4.76	49	648778	10.88	ug/l	100
18) Carbon disulfide	4.79	76	1876655	10.57	ug/l	100
19) Acrylonitrile	4.97	53	362605	51.22	ug/l	100
20) tert-Butyl methyl ether (M	5.02	73	817115	10.50	ug/l	100
21) trans-1,2-Dichloroethene	5.24	61	924416	10.04	ug/l	100
22) Isopropyl ether (DIPE)	5.80	45	1857211	10.37	ug/l	100
23) Vinyl acetate	6.00	43	656451	10.55	ug/l	100
24) 1,1-Dichloroethane	5.97	63	1073447	10.19	ug/l	100
25) 2-Butanol	6.37	45	73836	47.22	ug/l	100
26) tert-Butyl ethyl ether (ET	6.52	59	1345996	10.29	ug/l	100
27) 2-Butanone	6.72	43	512648	49.02	ug/l	100
28) 2,2-Dichloropropane	6.93	77	546977	10.36	ug/l	100
29) cis-1,2-Dichloroethene	7.02	96	600621	9.93	ug/l	100

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

RHWO08.D VO06H15.M

Mon Aug 20 17:23:43 2012

PM  
8-21-12

Page 1

2007

Data File : D:\HPCHEM\1\DATA\12H15\RHWO08.D  
 Acq On : 15 Aug 2012 9:54 pm  
 Sample : VO06H156  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:16 2012

Vial: 7  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) Chloroform	7.29	83	951680	9.95	ug/l	100
32) Bromochloromethane	7.56	49	433861	10.30	ug/l	100
33) Tetrahydrofuran	7.62	42	67722	9.99	ug/l	100
35) 1,1,1-Trichloroethane	7.96	97	800820	10.29	ug/l	100
36) Cyclohexane	7.97	56	1217420	9.45	ug/l	100
37) tert-Amyl methyl ether (TA	8.43	87	219210	10.75	ug/l	100
40) 2,2,4-Trimethylpentane	8.09	57	2315931	9.92	ug/l	100
41) 1,1-Dichloropropene	8.21	110	273735	9.83	ug/l	100
42) Carbon tetrachloride	8.38	119	729817	10.07	ug/l	100
43) 1,2-Dichloroethane	8.64	62	524892	9.98	ug/l	100
44) Benzene	8.66	78	2088809	9.65	ug/l	100
45) Trichloroethene	9.67	130	611201	9.89	ug/l	100
46) Methylcyclohexane	9.76	83	1003583	10.06	ug/l	100
47) 1,2-Dichloropropane	9.97	63	548408	9.98	ug/l	100
48) 1,4-Dioxane	10.38	88	34812	204.54	ug/l	100
49) Bromodichloromethane	10.34	83	683254	10.24	ug/l	100
50) Dibromomethane	10.43	93	241256	10.12	ug/l	100
51) 2-Chloroethyl vinyl ether	10.87	63	188502	10.63	ug/l	100
52) 4-Methyl-2-pentanone	10.90	43	1480123	52.27	ug/l	100
53) cis-1,3-Dichloropropene	11.23	75	798774	10.35	ug/l	100
55) Toluene	11.75	91	2212675	9.86	ug/l	100
56) Ethyl methacrylate	12.05	69	390843	10.62	ug/l	100
57) trans-1,3-Dichloropropene	12.05	75	591390	10.47	ug/l	100
58) 1,1,2-Trichloroethane	12.30	97	289819	10.29	ug/l	100
59) 2-Hexanone	12.32	43	881961	52.33	ug/l	100
60) 1,3-Dichloropropane	12.72	76	606294	10.34	ug/l	100
61) Tetrachloroethene	12.81	164	480324	9.85	ug/l	100
62) Dibromochloromethane	13.13	129	400566	10.55	ug/l	100
64) 1,2-Dibromoethane	13.46	107	304845	10.39	ug/l	100
65) 1-Chlorohexane	13.71	91	970386	10.27	ug/l	100
66) Chlorobenzene	14.13	112	1309865	9.74	ug/l	100
67) 1,1,1,2-Tetrachloroethane	14.20	131	440434	10.34	ug/l	100
68) Ethylbenzene	14.22	91	2530951	10.05	ug/l	100
69) m-Xylene & p-Xylene	14.34	91	3757093	19.42	ug/l	100
70) o-Xylene	15.05	91	1977643	10.22	ug/l	100
71) Styrene	15.11	104	1389288	10.38	ug/l	100
73) Isopropylbenzene	15.63	105	2312854	10.09	ug/l	100
74) Bromoform	15.68	173	182928	9.67	ug/l	100
75) 1,1,2,2-Tetrachloroethane	15.93	83	314044	10.27	ug/l	100
77) 1,2,3-Trichloropropane	16.17	110	85665	10.45	ug/l	100
78) trans-1,4-Dichloro-2-buten	16.27	53	96916	10.53	ug/l	100

(#) = qualifier out of range (m) = manual integration  
 RHWO08.D VO06H15.M Mon Aug 20 17:23:44 2012

*W*  
*8-21-12*

Data File : D:\HPCHEM\1\DATA\12H15\RHWO08.D  
 Acq On : 15 Aug 2012 9:54 pm  
 Sample : VO06H156  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:16 2012

Vial: 7  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) n-Propylbenzene	16.28	91	3119921	10.19	ug/l	100
80) Bromobenzene	16.37	156	478948	10.04	ug/l	100
81) 1,3,5-Trimethylbenzene	16.55	105	1822878	9.91	ug/l	100
82) 2-Chlorotoluene	16.58	91	1907368	9.99	ug/l	100
83) 4-Chlorotoluene	16.66	91	1509268	9.75	ug/l	100
84) tert-Butylbenzene	17.12	134	415879	9.85	ug/l	100
85) 1,2,4-Trimethylbenzene	17.18	105	1762714	9.97	ug/l	100
86) sec-Butylbenzene	17.43	105	2514703	9.91	ug/l	100
87) p-Isopropyltoluene	17.62	119	1931202	9.94	ug/l	100
88) 1,3-Dichlorobenzene	17.76	146	934080	9.90	ug/l	100
89) 1,4-Dichlorobenzene	17.89	146	891765	9.91	ug/l	100
91) n-Butylbenzene	18.16	91	1930358	9.79	ug/l	100
92) 1,2-Dichlorobenzene	18.37	146	711399	9.83	ug/l	100
93) 1,2-Dibromo-3-chloropropan	19.27	157	35677	10.06	ug/l	100
94) 1,2,4-Trichlorobenzene	20.27	180	433509	9.55	ug/l	100
95) Hexachlorobutadiene	20.42	225	316442	9.87	ug/l	100
96) Naphthalene	20.60	128	551804	10.02	ug/l	100
97) 1,2,3-Trichlorobenzene	20.89	180	323344	9.52	ug/l	100

*WA*  
*8-21-12*

(#) = qualifier out of range (m) = manual integration  
 RHWO08.D VO06H15.M Mon Aug 20 17:23:44 2012

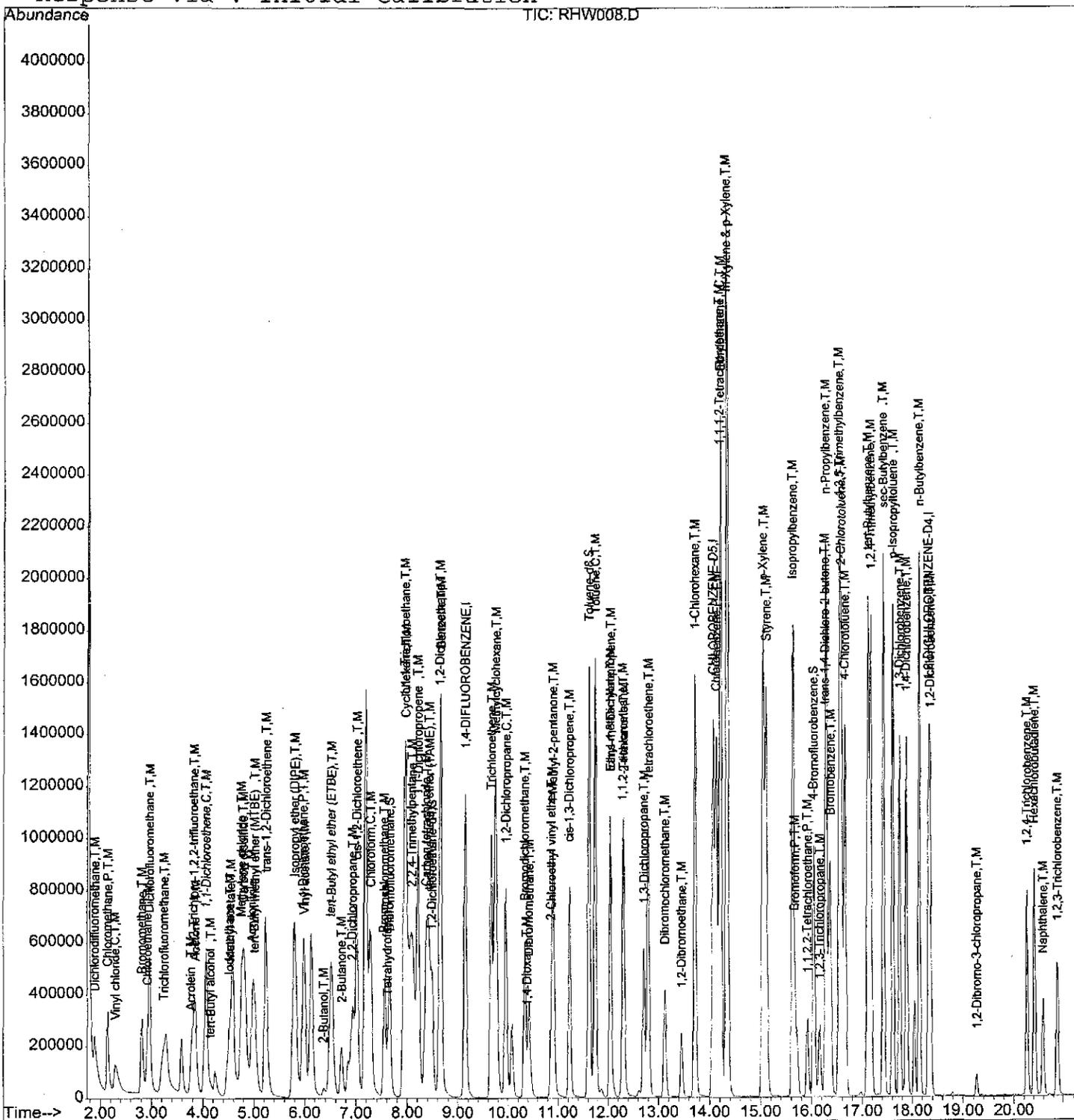
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H15\RHWO08.D  
Acq On : 15 Aug 2012 9:54 pm  
Sample : VO06H156  
Misc : 10ppb 8260/50ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 20 16:16 2012

Vial: 7  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



*Handwritten:* 8260-6

Data File : D:\HPCHEM\1\DATA\12H15\RHWO09.D  
 Acq On : 15 Aug 2012 10:23 pm  
 Sample : VO06H157  
 Misc : 20ppb 8260/100ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:29 2012

Vial: 8  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1702228	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1429844	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	426712	10.00	ug/l	0.00

#### System Monitoring Compounds

34) Dibromofluoromethane	7.65	111	1079724	21.01	ug/l	-0.01
Spiked Amount	10.000		Recovery	=	210.10%	
38) 1,2-Dichloroethane-d4	8.48	65	873390	20.35	ug/l	-0.01
Spiked Amount	10.000		Recovery	=	203.50%	
54) Toluene-d8	11.62	98	3685826	20.20	ug/l	0.00
Spiked Amount	10.000		Recovery	=	202.00%	
76) 4-Bromofluorobenzene	16.05	95	1178645	22.19	ug/l	0.00
Spiked Amount	10.000		Recovery	=	221.90%	

#### Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	830282	18.91	ug/l	99
3) Chloromethane	2.15	50	1015909	19.26	ug/l	100
4) Vinyl chloride	2.31	62	680702	17.18	ug/l	100
5) Bromomethane	2.82	94	668082	21.04	ug/l	100
6) Chloroethane	2.92	64	555917	20.52	ug/l	99
7) Dichlorofluoromethane	2.95	67	1919163	20.54	ug/l	100
8) Trichlorofluoromethane	3.23	101	1221096	20.19	ug/l	99
9) Acrolein	3.77	56	207737	99.33	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	580247	20.27	ug/l	99
11) Acetone	3.86	43	524561	90.48	ug/l	99
12) 1,1-Dichloroethene	4.07	61	1814652	20.30	ug/l	99
13) tert-Butyl alcohol	4.16	59	162216	98.60	ug/l	100
15) Methyl acetate	4.54	43	332823	17.57	ug/l	100
16) Iodomethane	4.53	142	1574187	20.53	ug/l	100
17) Methylene chloride	4.81	49	1274511	21.33	ug/l	98
18) Carbon disulfide	4.79	76	3711027	20.31	ug/l	100
19) Acrylonitrile	4.97	53	699233	95.99	ug/l	99
20) tert-Butyl methyl ether (M	5.02	73	1555724	19.44	ug/l	99
21) trans-1,2-Dichloroethene	5.23	61	1927347	20.35	ug/l	98
22) Isopropyl ether (DIPE)	5.79	45	3673351	19.94	ug/l	100
23) Vinyl acetate	6.00	43	1240010	19.38	ug/l	100
24) 1,1-Dichloroethane	5.97	63	2187069	20.18	ug/l	100
25) 2-Butanol	6.37	45	145463	90.40	ug/l	98
26) tert-Butyl ethyl ether (ET	6.52	59	2702939	20.08	ug/l	99
27) 2-Butanone	6.71	43	962544	89.45	ug/l	98
28) 2,2-Dichloropropane	6.94	77	1079048	19.87	ug/l	99
29) cis-1,2-Dichloroethene	7.03	96	1248250	20.07	ug/l	97

(#) = qualifier out of range (m) = manual integration  
 RHWO09.D VO06H15.M Mon Aug 20 17:24:38 2012

*W  
8260*

Data File : D:\HPCHEM\1\DATA\12H15\RHW009.D  
 Acq On : 15 Aug 2012 10:23 pm  
 Sample : VO06H157  
 Misc : 20ppb 8260/100ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:29 2012

Vial: 8  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) Chloroform	7.29	83	1945597	19.76	ug/l	100
32) Bromochloromethane	7.56	49	864341	19.95	ug/l	99
33) Tetrahydrofuran	7.62	42	121803	17.97	ug/l	97
35) 1,1,1-Trichloroethane	7.95	97	1635104	20.42	ug/l	99
36) Cyclohexane	7.98	56	2404745	18.13	ug/l	100
37) tert-Amyl methyl ether (TA	8.42	87	425315	20.27	ug/l	97
40) 2,2,4-Trimethylpentane	8.10	57	4166860	17.88	ug/l	94
41) 1,1-Dichloropropene	8.21	110	566065	20.35	ug/l	100
42) Carbon tetrachloride	8.38	119	1499346	20.72	ug/l	100
43) 1,2-Dichloroethane	8.65	62	1031493	19.65	ug/l	99
44) Benzene	8.66	78	4245350	19.64	ug/l	100
45) Trichloroethene	9.67	130	1242633	20.13	ug/l	99
46) Methylcyclohexane	9.76	83	1952582	19.60	ug/l	100
47) 1,2-Dichloropropane	9.95	63	1110418	20.25	ug/l	100
48) 1,4-Dioxane	10.39	88	71568	421.20	ug/l	98
49) Bromodichloromethane	10.34	83	1411441	21.19	ug/l	99
50) Dibromomethane	10.43	93	487601	20.49	ug/l	99
51) 2-Chloroethyl vinyl ether	10.86	63	367735	20.77	ug/l	99
52) 4-Methyl-2-pentanone	10.91	43	2775791	98.19	ug/l	99
53) cis-1,3-Dichloropropene	11.23	75	1602324	20.80	ug/l	99
55) Toluene	11.74	91	4481231	20.01	ug/l	100
56) Ethyl methacrylate	12.05	69	754073	20.53	ug/l	99
57) trans-1,3-Dichloropropene	12.05	75	1179460	20.91	ug/l	97
58) 1,1,2-Trichloroethane	12.30	97	559496	19.89	ug/l	99
59) 2-Hexanone	12.32	43	1636610	97.26	ug/l	100
60) 1,3-Dichloropropane	12.70	76	1147791	19.60	ug/l	100
61) Tetrachloroethene	12.79	164	978703	20.10	ug/l	100
62) Dibromochloromethane	13.14	129	800309	21.10	ug/l	100
64) 1,2-Dibromoethane	13.45	107	599055	20.46	ug/l	99
65) 1-Chlorohexane	13.72	91	1928084	20.43	ug/l	99
66) Chlorobenzene	14.13	112	2714035	20.21	ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.21	131	874511	20.57	ug/l	99
68) Ethylbenzene	14.22	91	4973785	19.78	ug/l	99
69) m-Xylene & p-Xylene	14.34	91	7392958	38.28	ug/l	99
70) o-Xylene	15.05	91	3917118	20.27	ug/l	100
71) Styrene	15.11	104	2708432	20.26	ug/l	100
73) Isopropylbenzene	15.63	105	4564697	22.83	ug/l	99
74) Bromoform	15.66	173	357667	21.48	ug/l	99
75) 1,1,2,2-Tetrachloroethane	15.93	83	570540	21.39	ug/l	100
77) 1,2,3-Trichloropropane	16.17	110	152569	21.33	ug/l	99
78) trans-1,4-Dichloro-2-buten	16.27	53	178995	22.30	ug/l	97

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

RHW009.D VO06H15.M Mon Aug 20 17:24:39 2012

Page 2

*W*  
*8-21-12*

2012

Data File : D:\HPCHEM\1\DATA\12H15\RH009.D  
 Acq On : 15 Aug 2012 10:23 pm  
 Sample : VO06H157  
 Misc : 20ppb 8260/100ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:29 2012

Vial: 8  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) n-Propylbenzene	16.29	91	5959397	22.33	ug/l	99
80) Bromobenzene	16.38	156	924045	22.20	ug/l	99
81) 1,3,5-Trimethylbenzene	16.55	105	3527607	21.98	ug/l	99
82) 2-Chlorotoluene	16.58	91	3739562	22.47	ug/l	99
83) 4-Chlorotoluene	16.66	91	2857965	21.17	ug/l	100
84) tert-Butylbenzene	17.12	134	803678	21.82	ug/l	97
85) 1,2,4-Trimethylbenzene	17.18	105	3319292	21.52	ug/l	100
86) sec-Butylbenzene	17.43	105	4756148	21.48	ug/l	100
87) p-Isopropyltoluene	17.61	119	3612980	21.33	ug/l	100
88) 1,3-Dichlorobenzene	17.76	146	1789970	21.75	ug/l	100
89) 1,4-Dichlorobenzene	17.89	146	1681857	21.43	ug/l	100
91) n-Butylbenzene	18.15	91	3604934	20.95	ug/l	100
92) 1,2-Dichlorobenzene	18.37	146	1269889	20.13	ug/l	99
93) 1,2-Dibromo-3-chloropropan	19.28	157	56167	18.16	ug/l	98
94) 1,2,4-Trichlorobenzene	20.27	180	709001	17.91	ug/l	100
95) Hexachlorobutadiene	20.42	225	485824	17.37	ug/l	99
96) Naphthalene	20.60	128	820193	17.08	ug/l	100
97) 1,2,3-Trichlorobenzene	20.88	180	480501	16.23	ug/l	100

(#) = qualifier out of range (m) = manual integration  
 RH009.D VO06H15.M Mon Aug 20 17:24:39 2012

*W  
8-20-12*



Data File : D:\HPCHEM\1\DATA\12H15\RHWO10.D  
 Acq On : 15 Aug 2012 10:53 pm  
 Sample : VO06H158  
 Misc : 30ppb 8260/150ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:29 2012

Vial: 9  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1651261	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1410191	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	454935	10.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) Dibromofluoromethane	7.66	111	1666483	33.43	ug/l	0.00
Spiked Amount			Recovery	=	334.30%	
38) 1,2-Dichloroethane-d4	8.49	65	1360934	32.68	ug/l	0.00
Spiked Amount			Recovery	=	326.80%	
54) Toluene-d8	11.62	98	5642516	31.36	ug/l	0.00
Spiked Amount			Recovery	=	313.60%	
76) 4-Bromofluorobenzene	16.05	95	1844820	32.58	ug/l	0.00
Spiked Amount			Recovery	=	325.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.89	85	1275311	29.95	ug/l	100
3) Chloromethane	2.15	50	1546366	30.21	ug/l	100
4) Vinyl chloride	2.31	62	897041	23.34	ug/l	100
5) Bromomethane	2.81	94	989584	32.13	ug/l	100
6) Chloroethane	2.92	64	811923	30.90	ug/l	99
7) Dichlorofluoromethane	2.96	67	2767050	30.52	ug/l	100
8) Trichlorofluoromethane	3.25	101	1806930	30.80	ug/l	100
9) Acrolein	3.77	56	339247	167.22	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	861137	31.02	ug/l	99
11) Acetone	3.86	43	874803	155.54	ug/l	99
12) 1,1-Dichloroethene	4.06	61	2682690	30.94	ug/l	99
13) tert-Butyl alcohol	4.15	59	297116	186.16	ug/l	96
15) Methyl acetate	4.54	43	572747	31.18	ug/l	98
16) Iodomethane	4.52	142	2397720	32.23	ug/l	99
17) Methylene chloride	4.81	49	1939444	33.81	ug/l	99
18) Carbon disulfide	4.79	76	5705494	32.20	ug/l	100
19) Acrylonitrile	4.97	53	1191290	168.58	ug/l	99
20) tert-Butyl methyl ether (M	5.02	73	2585720	33.30	ug/l	99
21) trans-1,2-Dichloroethene	5.24	61	2831262	30.81	ug/l	97
22) Isopropyl ether (DIPE)	5.80	45	5786168	32.38	ug/l	99
23) Vinyl acetate	6.00	43	2013120	32.43	ug/l	99
24) 1,1-Dichloroethane	5.97	63	3219862	30.63	ug/l	100
25) 2-Butanol	6.37	45	273158	175.00	ug/l	97
26) tert-Butyl ethyl ether (ET	6.52	59	4341556	33.24	ug/l	100
27) 2-Butanone	6.72	43	1708067	163.63	ug/l	99
28) 2,2-Dichloropropane	6.93	77	1537998	29.19	ug/l	99
29) cis-1,2-Dichloroethene	7.02	96	1868651	30.97	ug/l	96

(#) = qualifier out of range (m) = manual integration  
 RHWO10.D VO06H15.M Mon Aug 20 17:25:00 2012

9/20/12  
 8-2-12

Data File : D:\HPCHEM\1\DATA\12H15\RH010.D  
 Acq On : 15 Aug 2012 10:53 pm  
 Sample : VO06H158  
 Misc : 30ppb 8260/150ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:29 2012

Vial: 9  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) Chloroform	7.29	83	2931306	30.69	ug/l	99
32) Bromochloromethane	7.56	49	1369146	32.57	ug/l	98
33) Tetrahydrofuran	7.62	42	208700	32.26	ug/l	94
35) 1,1,1-Trichloroethane	7.96	97	2357923	30.35	ug/l	99
36) Cyclohexane	7.97	56	3371958	26.21	ug/l	97
37) tert-Amyl methyl ether (TA	8.43	87	695504	34.18	ug/l	96
40) 2,2,4-Trimethylpentane	8.09	57	6682091	29.08	ug/l	97
41) 1,1-Dichloropropene	8.23	110	837598	30.54	ug/l	100
42) Carbon tetrachloride	8.38	119	2209232	30.96	ug/l	100
43) 1,2-Dichloroethane	8.64	62	1613405	31.17	ug/l	99
44) Benzene	8.66	78	6368767	29.87	ug/l	100
45) Trichloroethene	9.67	130	1847858	30.35	ug/l	99
46) Methylcyclohexane	9.76	83	2890693	29.42	ug/l	99
47) 1,2-Dichloropropane	9.97	63	1684265	31.14	ug/l	98
48) 1,4-Dioxane	10.38	88	118429	706.71	ug/l	98
49) Bromodichloromethane	10.34	83	2153010	32.78	ug/l	100
50) Dibromomethane	10.43	93	775392	33.04	ug/l	99
51) 2-Chloroethyl vinyl ether	10.87	63	621401	35.58	ug/l	100
52) 4-Methyl-2-pentanone	10.90	43	4688824	168.17	ug/l	99
53) cis-1,3-Dichloropropene	11.23	75	2520665	33.18	ug/l	99
55) Toluene	11.75	91	6597671	29.87	ug/l	99
56) Ethyl methacrylate	12.05	69	1243867	34.34	ug/l	100
57) trans-1,3-Dichloropropene	12.05	75	1862112	33.47	ug/l	99
58) 1,1,2-Trichloroethane	12.30	97	907780	32.72	ug/l	99
59) 2-Hexanone	12.32	43	2768932	166.85	ug/l	99
60) 1,3-Dichloropropane	12.72	76	1870450	32.39	ug/l	99
61) Tetrachloroethene	12.81	164	1440053	29.99	ug/l	100
62) Dibromochloromethane	13.13	129	1313414	35.12	ug/l	99
64) 1,2-Dibromoethane	13.46	107	980338	33.95	ug/l	99
65) 1-Chlorohexane	13.71	91	2865406	30.79	ug/l	99
66) Chlorobenzene	14.13	112	4073976	30.76	ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.20	131	1342036	32.00	ug/l	99
68) Ethylbenzene	14.22	91	7329738	29.55	ug/l	98
69) m-Xylene & p-Xylene	14.34	91	10804861	56.73	ug/l	98
70) o-Xylene	15.05	91	5855917	30.72	ug/l	99
71) Styrene	15.11	104	4052241	30.74	ug/l	99
73) Isopropylbenzene	15.63	105	6663214	31.26	ug/l	99
74) Bromoform	15.68	173	603769	33.92	ug/l	99
75) 1,1,2,2-Tetrachloroethane	15.93	83	983894	34.59	ug/l	100
77) 1,2,3-Trichloropropane	16.17	110	273096	35.82	ug/l	98
78) trans-1,4-Dichloro-2-buten	16.27	53	297132	34.72	ug/l	95

(#) = qualifier out of range (m) = manual integration  
 RH010.D VO06H15.M Mon Aug 20 17:25:01 2012

*WL*

Data File : D:\HPCHEM\1\DATA\12H15\RHWO10.D  
 Acq On : 15 Aug 2012 10:53 pm  
 Sample : VO06H158  
 Misc : 30ppb 8260/150ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:29 2012

Vial: 9  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) n-Propylbenzene	16.30	91	8774815	30.83	ug/l	98
80) Bromobenzene	16.37	156	1434106	32.32	ug/l	98
81) 1,3,5-Trimethylbenzene	16.55	105	5260120	30.75	ug/l	99
82) 2-Chlorotoluene	16.58 ✓	91	5467680	30.82	ug/l	98
83) 4-Chlorotoluene	16.66 ✓	91	4350802	30.23	ug/l	99
84) tert-Butylbenzene	17.12	134	1229405	31.31	ug/l	96
85) 1,2,4-Trimethylbenzene	17.18 ✓	105	5012006	30.48	ug/l	98
86) sec-Butylbenzene	17.43 ✓	105	7187835	30.45	ug/l	98
87) p-Isopropyltoluene	17.62	119	5446422	30.16	ug/l	99
88) 1,3-Dichlorobenzene	17.76 ✓	146	2758213	31.44	ug/l	100
89) 1,4-Dichlorobenzene	17.89 ✓	146	2616885	31.27	ug/l	100
91) n-Butylbenzene	18.14	91	5398158	29.43	ug/l	99
92) 1,2-Dichlorobenzene	18.37	146	2069671	30.77	ug/l	99
93) 1,2-Dibromo-3-chloropropan	19.27	157	103996	31.54	ug/l	98
94) 1,2,4-Trichlorobenzene	20.27	180	1149323	27.24	ug/l	100
95) Hexachlorobutadiene	20.42	225	741384	24.87	ug/l	100
96) Naphthalene	20.60	128	1403953	27.42	ug/l	99
97) 1,2,3-Trichlorobenzene	20.88	180	746543	23.65	ug/l	99

*PA 8-21-12*

(#) = qualifier out of range (m) = manual integration  
 RHWO10.D VO06H15.M Mon Aug 20 17:25:01 2012

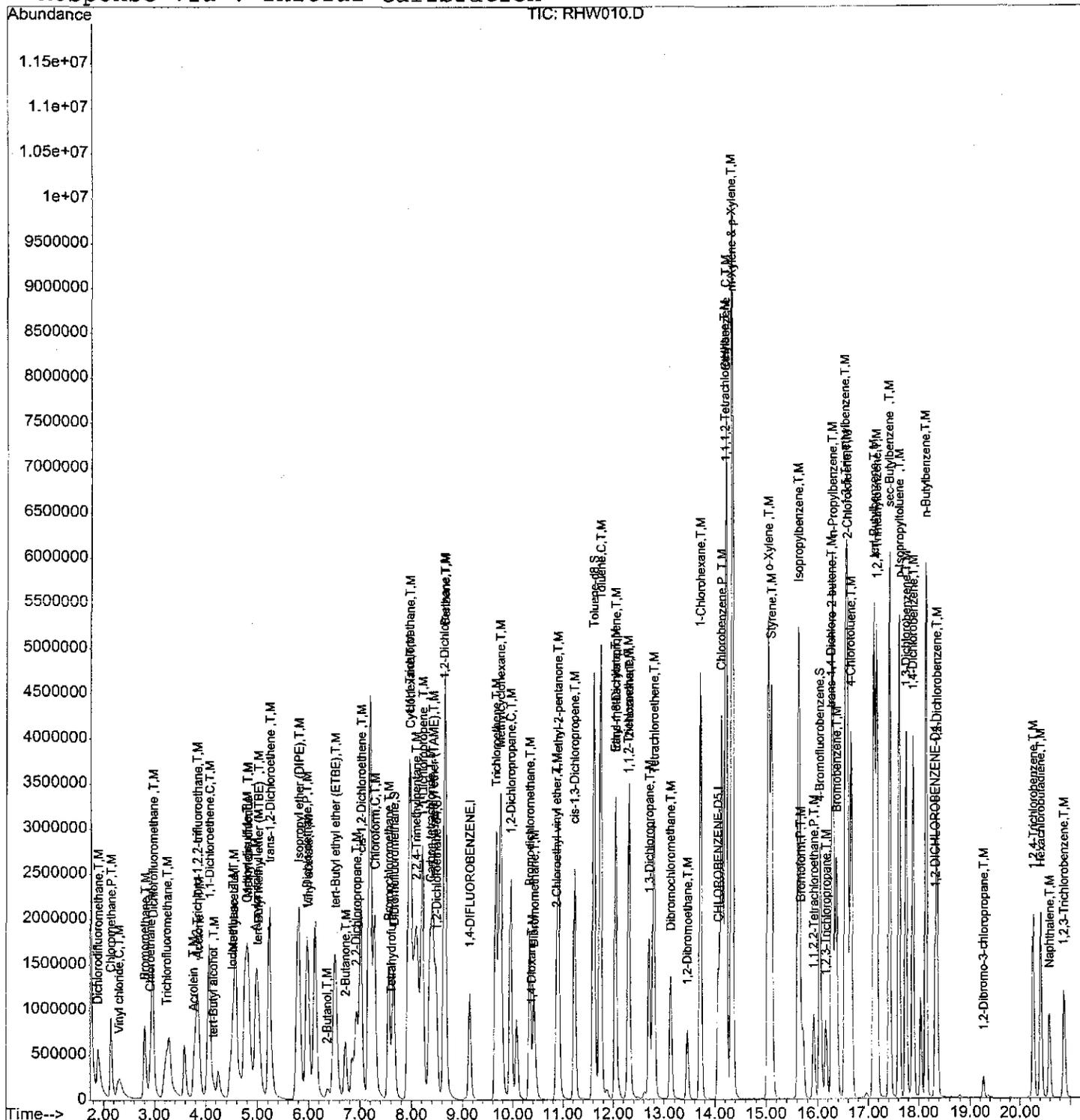
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H15\RHW010.D  
Acq On : 15 Aug 2012 10:53 pm  
Sample : VO06H158  
Misc : 30ppb 8260/150ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 20 16:29 2012

Vial: 9  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



*Handwritten signature/initials*

Data File : D:\HPCHEM\1\DATA\12H15\RH011.D  
 Acq On : 15 Aug 2012 11:24 pm  
 Sample : VO06H159  
 Misc : 50ppb 8260/250ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:17 2012

Vial: 10  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1604978	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1309880	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	416256	10.00	ug/l	0.00

System Monitoring Compounds

34) Dibromofluoromethane	7.66	111	2577109	53.18	ug/l	0.00
Spiked Amount	10.000		Recovery	=	531.80%	
38) 1,2-Dichloroethane-d4	8.49	65	1996317	49.32	ug/l	0.00
Spiked Amount	10.000		Recovery	=	493.20%	
54) Toluene-d8	11.62	98	8677452	51.92	ug/l	0.00
Spiked Amount	10.000		Recovery	=	519.20%	
76) 4-Bromofluorobenzene	16.05	95	2709042	52.29	ug/l	0.00
Spiked Amount	10.000		Recovery	=	522.90%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.89	85	2091234	50.53	ug/l	100
3) Chloromethane	2.15	50	2460705	49.47	ug/l	100
4) Vinyl chloride	2.31	62	1382123	37.00	ug/l	99
5) Bromomethane	2.80	94	1527871	51.04	ug/l	100
6) Chloroethane	2.92	64	1291157	50.55	ug/l	98
7) Dichlorofluoromethane	2.96	67	4273522	48.50	ug/l	100
8) Trichlorofluoromethane	3.25	101	2919370	51.19	ug/l	100
9) Acrolein	3.77	56	470119	238.41	ug/l	97
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	1413204	52.37	ug/l	100
11) Acetone	3.86	43	1184293	216.65	ug/l	99
12) 1,1-Dichloroethene	4.06	61	4342876	51.53	ug/l	98
13) tert-Butyl alcohol	4.17	59	370167	238.62	ug/l	95
15) Methyl acetate	4.54	43	780245	43.70	ug/l	97
16) Iodomethane	4.52	142	3754849	51.93	ug/l	99
17) Methylene chloride	4.81	49	2877389	51.93	ug/l	87
18) Carbon disulfide	4.79	76	9569287	55.56	ug/l	100
19) Acrylonitrile	4.97	53	1602092	233.26	ug/l	99
20) tert-Butyl methyl ether (M	5.01	73	3515638	46.58	ug/l	99
21) trans-1,2-Dichloroethene	5.24	61	4433671	49.64	ug/l	96
22) Isopropyl ether (DIPE)	5.80	45	8390456	48.31	ug/l	98
23) Vinyl acetate	6.00	43	2895132	47.98	ug/l	99
24) 1,1-Dichloroethane	5.97	63	5035917	49.29	ug/l	100
25) 2-Butanol	6.38	45	353232	232.83	ug/l	98
26) tert-Butyl ethyl ether (ET	6.52	59	6158753	48.52	ug/l	100
27) 2-Butanone	6.72	43	2317529	228.42	ug/l	98
28) 2,2-Dichloropropane	6.93	77	2339720	45.69	ug/l	98
29) cis-1,2-Dichloroethene	7.02	96	2868115	48.90	ug/l	96

(#) = qualifier out of range (m) = manual integration  
 RH011.D VO06H15.M Mon Aug 20 17:26:04 2012

*Handwritten signature*

Data File : D:\HPCHEM\1\DATA\12H15\RHWO11.D  
 Acq On : 15 Aug 2012 11:24 pm  
 Sample : VO06H159  
 Misc : 50ppb 8260/250ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:17 2012

Vial: 10  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) Chloroform	7.29	83	4503324	48.51	ug/l	100
32) Bromochloromethane	7.56	49	1970775	48.24	ug/l	97
33) Tetrahydrofuran	7.62	42	266132	42.54	ug/l	93
35) 1,1,1-Trichloroethane	7.96	97	3730829	49.40	ug/l	99
36) Cyclohexane	7.97	56	5554535	44.42	ug/l	95
37) tert-Amyl methyl ether (TA	8.43	87	961306	48.60	ug/l	96
40) 2,2,4-Trimethylpentane	8.11	57	11028641	51.66	ug/l	98
41) 1,1-Dichloropropene	8.23	110	1354130	53.15	ug/l	100
42) Carbon tetrachloride	8.37	119	3613270	54.51	ug/l	100
43) 1,2-Dichloroethane	8.64	62	2308306	48.01	ug/l	99
44) Benzene	8.66	78	9709779	49.03	ug/l	99
45) Trichloroethene	9.67	130	2976696	52.64	ug/l	99
46) Methylcyclohexane	9.76	83	4861884	53.27	ug/l	98
47) 1,2-Dichloropropane	9.97	63	2531105	50.38	ug/l	98
48) 1,4-Dioxane	10.38	88	156804	1007.36	ug/l	96
49) Bromodichloromethane	10.34	83	3193999	52.35	ug/l	99
50) Dibromomethane	10.43	93	1095367	50.24	ug/l	99
51) 2-Chloroethyl vinyl ether	10.87	63	844103	52.04	ug/l	100
52) 4-Methyl-2-pentanone	10.90	43	6205771	239.62	ug/l	98
53) cis-1,3-Dichloropropene	11.23	75	3664921	51.94	ug/l	98
55) Toluene	11.75	91	10139191	49.42	ug/l	98
56) Ethyl methacrylate	12.05	69	1701287	50.57	ug/l	99
57) trans-1,3-Dichloropropene	12.05	75	2684174	51.93	ug/l	97
58) 1,1,2-Trichloroethane	12.30	97	1286163	49.91	ug/l	99
59) 2-Hexanone	12.31	43	3664526	237.73	ug/l	98
60) 1,3-Dichloropropane	12.72	76	2626624	48.97	ug/l	98
61) Tetrachloroethene	12.81	164	2339199	52.45	ug/l	100
62) Dibromochloromethane	13.13	129	1897530	54.62	ug/l	99
64) 1,2-Dibromoethane	13.46	107	1395880	52.04	ug/l	100
65) 1-Chlorohexane	13.73	91	4580273	52.98	ug/l	99
66) Chlorobenzene	14.13	112	6172784	50.18	ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.20	131	2017370	51.79	ug/l	99
68) Ethylbenzene	14.22	91	11075532	48.08	ug/l	97
69) m-Xylene & p-Xylene	14.35	91	15980464	90.32	ug/l	96
70) o-Xylene	15.05	91	8788144	49.63	ug/l	98
71) Styrene	15.11	104	6125199	50.02	ug/l	99
73) Isopropylbenzene	15.64	105	10227480	52.45	ug/l	98
74) Bromoform	15.67	173	846514	51.89	ug/l	99
75) 1,1,2,2-Tetrachloroethane	15.93	83	1327350	51.00	ug/l	99
77) 1,2,3-Trichloropropane	16.17	110	364678	52.27	ug/l	98
78) trans-1,4-Dichloro-2-buten	16.27	53	403422	51.52	ug/l	95

(#) = qualifier out of range (m) = manual integration  
 RHWO11.D VO06H15.M Mon Aug 20 17:26:05 2012

*W*  
*8-25-12*

Data File : D:\HPCHEM\1\DATA\12H15\RH011.D  
 Acq On : 15 Aug 2012 11:24 pm  
 Sample : VO06H159  
 Misc : 50ppb 8260/250ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:17 2012

Vial: 10  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) n-Propylbenzene	16.30	91	13386211	51.41	ug/l	97
80) Bromobenzene	16.37	156	2111145	52.00	ug/l	98
81) 1,3,5-Trimethylbenzene	16.55	105	7992956	51.06	ug/l	98
82) 2-Chlorotoluene	16.58	91	8108671	49.95	ug/l	98
83) 4-Chlorotoluene	16.67	91	6659828	50.58	ug/l	99
84) tert-Butylbenzene	17.12	134	1929431	53.70	ug/l	93
85) 1,2,4-Trimethylbenzene	17.18	105	7411906	49.27	ug/l	98
86) sec-Butylbenzene	17.43	105	11011197	50.99	ug/l	97
87) p-Isopropyltoluene	17.62	119	8415862	50.94	ug/l	98
88) 1,3-Dichlorobenzene	17.76	146	4073894	50.74	ug/l	99
89) 1,4-Dichlorobenzene	17.89	146	3853044	50.32	ug/l	99
91) n-Butylbenzene	18.16	91	8378120	49.92	ug/l	98
92) 1,2-Dichlorobenzene	18.37	146	3102409	50.41	ug/l	100
93) 1,2-Dibromo-3-chloropropan	19.27	157	155509	51.54	ug/l	99
94) 1,2,4-Trichlorobenzene	20.27	180	1835825	47.55	ug/l	100
95) Hexachlorobutadiene	20.42	225	1261884	46.26	ug/l	100
96) Naphthalene	20.60	128	2033623	43.41	ug/l	99
97) 1,2,3-Trichlorobenzene	20.89	180	1108419	38.37	ug/l	99

*RM 8-21-12*

(#) = qualifier out of range (m) = manual integration  
 RH011.D VO06H15.M Mon Aug 20 17:26:05 2012

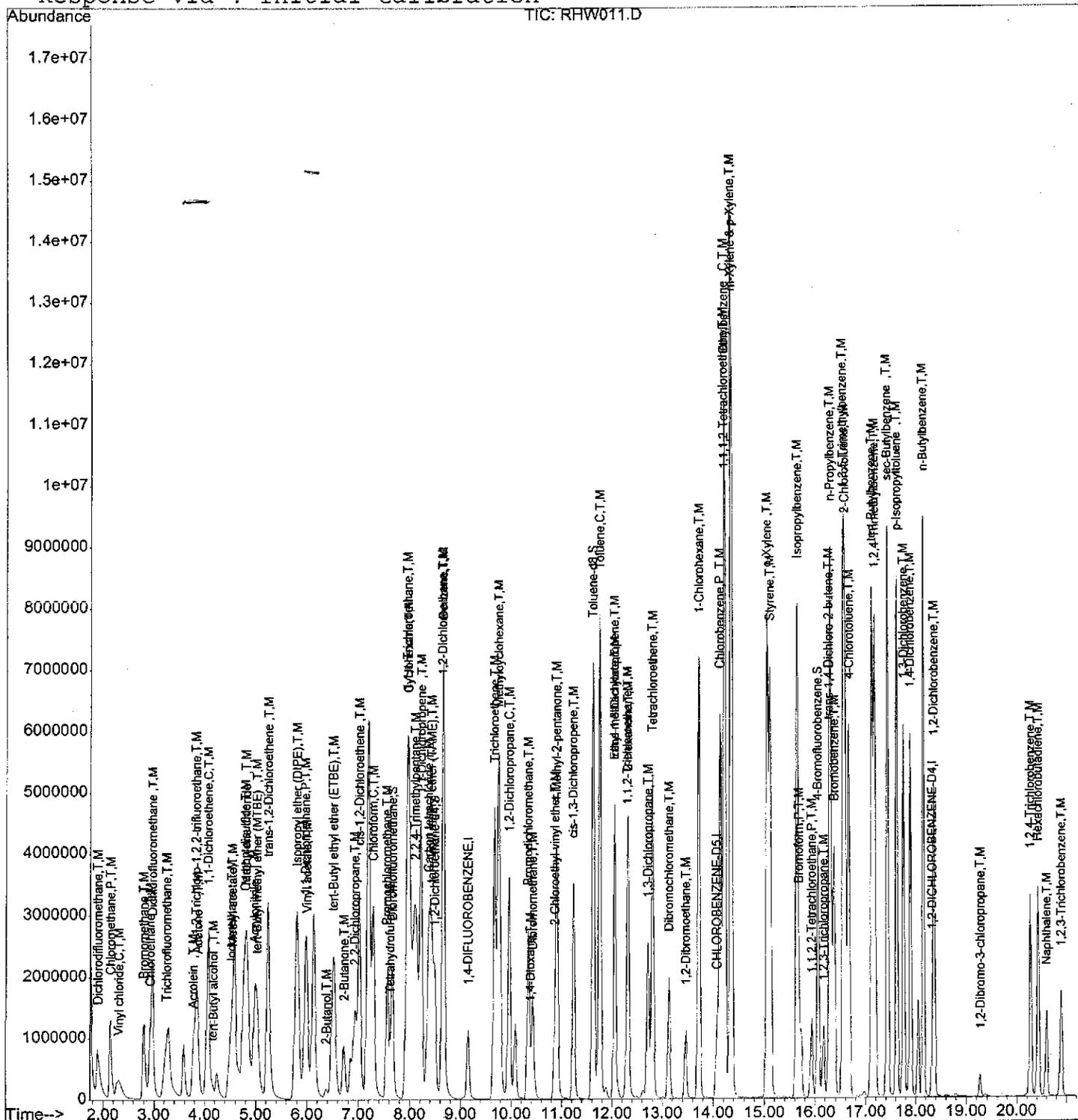
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H15\RH011.D  
Acq On : 15 Aug 2012 11:24 pm  
Sample : VO06H159  
Misc : 50ppb 8260/250ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 20 16:17 2012

Vial: 10  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



*Handwritten:* 8-20-12

Data File : D:\HPCHEM\1\DATA\12H15\RH012.D  
 Acq On : 15 Aug 2012 11:53 pm  
 Sample : VO06H1510  
 Misc : 100ppb 8260/500ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:17 2012

Vial: 11  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1719664	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1382085	10.00	ug/l	0.00
72) 1,2-DICHLOROETHANE-D4	18.34	152	445959	10.00	ug/l	0.00

#### System Monitoring Compounds

34) Dibromofluoromethane	7.65	111	4860243	93.61	ug/l	-0.01
Spiked Amount	10.000		Recovery	=	936.10%	
38) 1,2-Dichloroethane-d4	8.50	65	3818725	88.06	ug/l	0.00
Spiked Amount	10.000		Recovery	=	880.60%	
54) Toluene-d8	11.62	98	16009776	90.78	ug/l	0.00
Spiked Amount	10.000		Recovery	=	907.80%	
76) 4-Bromofluorobenzene	16.05	95	4904141	88.35	ug/l	0.00
Spiked Amount	10.000		Recovery	=	883.50%	

#### Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.89	85	4320687	97.43	ug/l	99
3) Chloromethane	2.15	50	4933116	92.55	ug/l	100
4) Vinyl chloride	2.28	62	2346491	58.62	ug/l	100
5) Bromomethane	2.80	94	2817812	87.86	ug/l	100
6) Chloroethane	2.91	64	2303160	84.15	ug/l	99
7) Dichlorofluoromethane	2.95	67	7454435	78.96	ug/l	99
8) Trichlorofluoromethane	3.23	101	5938361	97.19	ug/l	100
9) Acrolein	3.77	56	863307	408.61	ug/l	94
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	2658235	91.93	ug/l	99
11) Acetone	3.86	43	2222601	379.47	ug/l	98
12) 1,1-Dichloroethene	4.05	61	8165514	90.43	ug/l	98
13) tert-Butyl alcohol	4.17	59	754243	453.78	ug/l	93
15) Methyl acetate	4.54	43	1512729	79.07	ug/l	96
16) Iodomethane	4.53	142	7322859	94.52	ug/l	99
17) Methylene chloride	4.81	49	5424133	91.84	ug/l	87
18) Carbon disulfide	4.79	76	17915771	97.08	ug/l	99
19) Acrylonitrile	4.97	53	3190840	433.59	ug/l	99
20) tert-Butyl methyl ether (M	5.02	73	6879340	85.08	ug/l	100
21) trans-1,2-Dichloroethene	5.22	61	8282899	86.56	ug/l	95
22) Isopropyl ether (DIPE)	5.80	45	15797039	84.89	ug/l	97
23) Vinyl acetate	6.00	43	5737917	88.75	ug/l	98
24) 1,1-Dichloroethane	5.97	63	9558443	87.31	ug/l	99
25) 2-Butanol	6.38	45	793325	488.04	ug/l	97
26) tert-Butyl ethyl ether (ET	6.52	59	11681467	85.89	ug/l	99
27) 2-Butanone	6.73	43	4569976	420.39	ug/l	98
28) 2,2-Dichloropropane	6.93	77	3992236	72.76	ug/l	97
29) cis-1,2-Dichloroethene	7.02	96	5550329	88.32	ug/l	94

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

RH012.D VO06H15.M Mon Aug 20 17:26:52 2012

*W  
8-26-12*

Data File : D:\HPCHEM\1\DATA\12H15\RH012.D  
 Acq On : 15 Aug 2012 11:53 pm  
 Sample : VO06H1510  
 Misc : 100ppb 8260/500ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:17 2012

Vial: 11  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) Chloroform	7.29	83	8553553	85.99	ug/l	99
32) Bromochloromethane	7.56	49	3817099	87.20	ug/l	97
33) Tetrahydrofuran	7.62	42	509336	76.51	ug/l	92
35) 1,1,1-Trichloroethane	7.96	97	6900690	85.29	ug/l	94
36) Cyclohexane	7.97	56	10261630	76.60	ug/l	93
37) tert-Amyl methyl ether (TA	8.44	87	1822154	85.98	ug/l	92
40) 2,2,4-Trimethylpentane	8.11	57	20802353	92.36	ug/l	# 33
41) 1,1-Dichloropropene	8.21	110	2540445	94.51	ug/l	99
42) Carbon tetrachloride	8.38	119	6717264	96.05	ug/l	100
43) 1,2-Dichloroethane	8.64	62	4358819	85.92	ug/l	98
44) Benzene	8.66	78	17244630	82.52	ug/l	98
45) Trichloroethene	9.67	130	5554293	93.09	ug/l	99
46) Methylcyclohexane	9.76	83	8976625	93.22	ug/l	98
47) 1,2-Dichloropropane	9.97	63	4763576	89.86	ug/l	98
48) 1,4-Dioxane	10.38	88	329297	2004.99	ug/l	96
49) Bromodichloromethane	10.34	83	6211336	96.49	ug/l	99
50) Dibromomethane	10.43	93	2098696	91.24	ug/l	98
51) 2-Chloroethyl vinyl ether	10.87	63	1721581	100.58	ug/l	99
52) 4-Methyl-2-pentanone	10.90	43	11593873	424.27	ug/l	97
53) cis-1,3-Dichloropropene	11.23	75	6973884	93.68	ug/l	98
55) Toluene	11.75	91	18210927	84.13	ug/l	97
56) Ethyl methacrylate	12.05	69	3198361	90.10	ug/l	98
57) trans-1,3-Dichloropropene	12.05	75	5103338	93.58	ug/l	97
58) 1,1,2-Trichloroethane	12.30	97	2446955	90.00	ug/l	99
59) 2-Hexanone	12.32	43	6748509	414.93	ug/l	97
60) 1,3-Dichloropropane	12.72	76	5045895	89.16	ug/l	98
61) Tetrachloroethene	12.81	164	4305847	91.50	ug/l	99
62) Dibromochloromethane	13.13	129	3679972	100.39	ug/l	100
64) 1,2-Dibromoethane	13.46	107	2673316	94.46	ug/l	100
65) 1-Chlorohexane	13.73	91	8078546	88.57	ug/l	98
66) Chlorobenzene	14.13	112	11254683	86.71	ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.20	131	3745547	91.12	ug/l	98
68) Ethylbenzene	14.22	91	18643656	76.70	ug/l	95
69) m-Xylene & p-Xylene	14.35	91	25028802	134.07	ug/l	90
70) o-Xylene	15.05	91	15444924	82.67	ug/l	96
71) Styrene	15.11	104	10884514	84.24	ug/l	97
73) Isopropylbenzene	15.65	105	17200094	82.33	ug/l	96
74) Bromoform	15.68	173	1644719	93.98	ug/l	99
75) 1,1,2,2-Tetrachloroethane	15.93	83	2526155	90.60	ug/l	99
77) 1,2,3-Trichloropropane	16.17	110	695182	93.01	ug/l	99
78) trans-1,4-Dichloro-2-buten	16.27	53	733068	87.39	ug/l	92

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

RH012.D VO06H15.M Mon Aug 20 17:26:53 2012

8-26-12

Data File : D:\HPCHEM\1\DATA\12H15\RHW012.D  
 Acq On : 15 Aug 2012 11:53 pm  
 Sample : VO06H1510  
 Misc : 100ppb 8260/500ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 16:17 2012

Vial: 11  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) n-Propylbenzene	16.30	91	21521353	77.15	ug/l	94
80) Bromobenzene	16.37	156	3896257	89.57	ug/l	96
81) 1,3,5-Trimethylbenzene	16.55	105	13805252	82.32	ug/l	96
82) 2-Chlorotoluene	16.60	91	13750578	79.06	ug/l	96
83) 4-Chlorotoluene	16.67	91	11789041	83.57	ug/l	97
84) tert-Butylbenzene	17.12	134	3475053	90.28	ug/l	91
85) 1,2,4-Trimethylbenzene	17.18	105	13169518	81.71	ug/l	95
86) sec-Butylbenzene	17.43	105	18451317	79.75	ug/l	94
87) p-Isopropyltoluene	17.62	119	14759441	83.39	ug/l	95
88) 1,3-Dichlorobenzene	17.76	146	7229650	84.05	ug/l	98
89) 1,4-Dichlorobenzene	17.91	146	6936890	84.56	ug/l	98
91) n-Butylbenzene	18.16	91	14604029	81.23	ug/l	96
92) 1,2-Dichlorobenzene	18.37	146	5834486	88.49	ug/l	100
93) 1,2-Dibromo-3-chloropropan	19.27	157	409436	126.67	ug/l	98
94) 1,2,4-Trichlorobenzene	20.27	180	3831247	92.63	ug/l	99
95) Hexachlorobutadiene	20.42	225	2784008	95.26	ug/l	99
96) Naphthalene	20.60	128	4523270	90.12	ug/l	98
97) 1,2,3-Trichlorobenzene	20.89	180	2189042	70.74	ug/l	99

(#) = qualifier out of range (m) = manual integration  
 RHW012.D VO06H15.M Mon Aug 20 17:26:53 2012

*in 8-26-12*

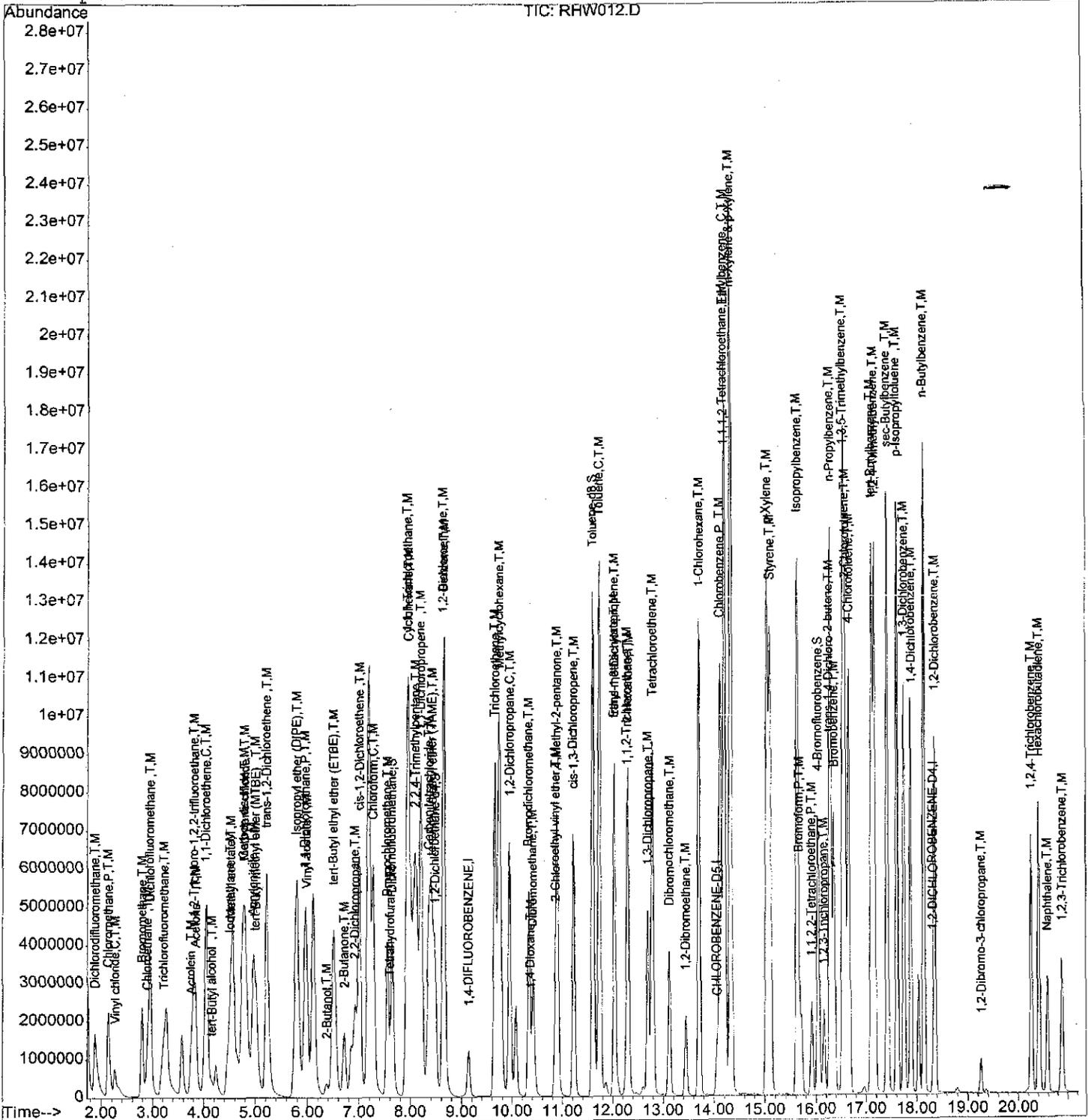
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H15\RHWO12.D  
Acq On : 15 Aug 2012 11:53 pm  
Sample : VO06H1510  
Misc : 100ppb 8260/500ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 20 16:17 2012

Vial: 11  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



*pu 8260*

# **SECOND SOURCE VERIFICATION**



CONTINUE\_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :T006  
 IC Beginning DateTime :08/15/12 19:22  
 Spike Amount :10 PPB  
 CC/CV File :RHW016  
 IC File :RHW008

Column Spec :RTX502.2 ID :0.25MM  
 IC Ending DateTime :08/15/12 23:53  
 HPChem Method :vo06h15  
 Date\_Time :08/16/12 10:02

M_IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
1	1,4-DIFLUOROBENZENE	10.000	0	1860809	1	1	9.148	9.149	0				
2	Dichlorodifluoromethane	9.824	-1.8	471407	0.253	0.258	1.893	1.894	6.32				
3	Chloromethane	10.472	4.7	603952	0.325	0.310	2.145	2.147	5.91				
4	Vinyl chloride	10.328	3.3	447330	0.240	0.233	2.309	2.300	13.19				
5	Bromomethane	10.472	4.7	363435	0.195	0.187	2.815	2.812	10.72				
6	Chloroethane	10.573	5.7	313116	0.168	0.159	2.919	2.919	9.41				
7	Dichlorofluoromethane	9.964	-0.4	1017847	0.547	0.549	2.963	2.960	8.55				
8	Trichlorofluoromethane	10.192	1.9	673832	0.362	0.355	3.231	3.238	8.43				
5 9	Acrolein	57.206	14.4	130783	0.014	0.012	3.766	3.772	9.90				
10	1,1,2-Trichloro-1,2,2-trifluoroethane	10.065	0.6	314914	0.169	0.168	3.826	3.826	6.69				
5 11	Acetone	51.048	2.1	323536	0.035	0.034	3.855	3.859	12.26				
12	1,1-Dichloroethene	10.137	1.4	990521	0.532	0.525	4.049	4.063	4.54				
5 13	tert-Butyl alcohol	56.186	12.4	101052	0.011	0.010	4.153	4.161	12.01				
14	Acetonitrile												
15	Methyl acetate	10.068	0.7	208432	0.112	0.111	4.539	4.541	14.21				
16	Iodomethane	10.290	2.9	862656	0.464	0.451	4.524	4.526	4.90				
17	Methylene chloride	10.870	8.7	729403	0.392	0.433	4.807	4.788	25.09	0.0211	0.3411		0.9963
18	Carbon disulfide	11.695	16.9	2335412	1.255	1.073	4.777	4.793	8.57				
5 19	Acrylonitrile	53.093	6.2	422792	0.045	0.043	4.970	4.973	7.45				
20	tert-Butyl methyl ether (MTBE)	10.073	0.7	881351	0.474	0.470	5.015	5.018	7.49				
21	trans-1,2-Dichloroethene	10.028	0.3	1038370	0.558	0.556	5.223	5.233	5.77				
22	Isopropyl ether (DIPE)	9.940	-0.6	2001510	1.076	1.082	5.803	5.804	6.46				
23	Vinyl acetate	10.735	7.4	751016	0.404	0.376	5.996	6.001	7.83				
24	1,1-Dichloroethane	9.548	-4.5	1131093	0.608	0.637	5.966	5.971	5.00				
5 25	2-Butanol	54.187	8.4	95311	0.010	0.009	6.368	6.380	9.21				
26	tert-Butyl ethyl ether (ETBE)	10.081	0.8	1483732	0.797	0.791	6.502	6.518	6.29				
5 27	2-Butanone	51.017	2.0	600112	0.065	0.063	6.710	6.723	11.92				
28	2,2-Dichloropropane	10.821	8.2	642452	0.345	0.319	6.933	6.939	11.92				
29	cis-1,2-Dichloroethene	10.088	0.9	686039	0.369	0.365	7.022	7.023	4.81				
30	Chloroform	9.714	-2.9	1045522	0.562	0.578	7.275	7.291	6.39				
5 31	tert-Amyl alcohol												
32	Bromochloromethane	10.016	0.2	474413	0.255	0.255	7.557	7.559	5.92				
33	Tetrahydrofuran	9.889	-1.1	75461	0.041	0.047	7.617	7.624	25.79	0.0026	0.0384		0.9958
34	Dibromofluoromethane	10.596	6.0	595307	0.320	0.302	7.646	7.657	12.90				
35	1,1,1-Trichloroethane	9.918	-0.8	868363	0.467	0.471	7.944	7.957	5.91				
36	Cyclohexane	10.698	7.0	1550794	0.833	0.779	7.959	7.973	11.92				
37	tert-Amyl methyl ether (TAME)	10.642	6.4	244051	0.131	0.123	8.434	8.433	7.49				
38	1,2-Dichloroethane-d4	10.073	0.7	472685	0.254	0.252	8.479	8.492	11.03				
39	CHLOROBENZENE-D5	10.000	0	1581053	1	1	14.069	14.071	0				
40	2,2,4-Trimethylpentane	8.293	-17.1	2136863	1.352	1.630	8.092	8.091	7.89				
41	1,1-Dichloropropene	10.114	1.1	311010	0.197	0.194	8.211	8.220	4.25				
42	Carbon tetrachloride	9.911	-0.9	792907	0.502	0.506	8.360	8.376	5.79				
43	1,2-Dichloroethane	9.612	-3.9	557820	0.353	0.367	8.643	8.646	6.76				
44	Benzene	9.816	-1.8	2346500	1.484	1.512	8.657	8.659	9.36				
45	Trichloroethene	10.006	0.1	682938	0.432	0.432	9.668	9.670	6.12				
46	Methylcyclohexane	10.131	1.3	1115968	0.706	0.697	9.743	9.758	8.98				
47	1,2-Dichloropropane	9.994	-0.1	606068	0.383	0.384	9.951	9.964	4.61				
20 48	1,4-Dioxane	222.394	11.2	41784	0.001	0.001	10.382	10.385	11.65				
49	Bromodichloromethane	10.149	1.5	747350	0.473	0.466	10.337	10.339	5.58				
50	Dibromomethane	10.358	3.6	272570	0.172	0.166	10.427	10.427	5.54				
51	2-Chloroethyl vinyl ether	10.536	5.4	206300	0.130	0.124	10.858	10.870	8.84				
5 52	4-Methyl-2-pentanone	53.865	7.7	1683849	0.213	0.198	10.902	10.907	7.11				
53	cis-1,3-Dichloropropene	10.612	6.1	903757	0.572	0.539	11.229	11.234	5.79				
54	Toluene-d8	10.605	6.0	2139440	1.353	1.276	11.616	11.619	8.94				
55	Toluene	9.869	-1.3	2443694	1.546	1.566	11.750	11.748	6.76				
56	Ethyl methacrylate	10.733	7.3	435851	0.276	0.257	12.047	12.049	7.04				
57	trans-1,3-Dichloropropene	10.482	4.8	653879	0.414	0.395	12.047	12.049	6.05				
58	1,1,2-Trichloroethane	10.369	3.7	322523	0.204	0.197	12.300	12.301	5.64				
5 59	2-Hexanone	55.018	10.0	1023658	0.129	0.118	12.315	12.321	8.05				
60	1,3-Dichloropropane	10.199	2.0	660249	0.418	0.409	12.701	12.715	6.01				
61	Tetrachloroethene	9.998	-0.0	538206	0.340	0.340	12.791	12.804	4.76				
62	Dibromochloromethane	10.525	5.2	441326	0.279	0.265	13.132	13.134	9.39				
63	2-Ethyl-1-butanol												
64	1,2-Dibromoethane	10.651	6.5	344825	0.218	0.205	13.445	13.458	6.02				
65	1-Chlorohexane	10.209	2.1	1065278	0.674	0.660	13.712	13.720	5.61				
66	Chlorobenzene	9.966	-0.3	1479703	0.936	0.939	14.129	14.132	6.36				
67	1,1,1,2-Tetrachloroethane	10.275	2.8	483160	0.306	0.297	14.203	14.204	4.58				
68	Ethylbenzene	10.056	0.6	2796277	1.769	1.759	14.218	14.219	9.90				
2 69	m-Xylene & p-Xylene	19.384	-3.1	4139569	1.309	1.351	14.337	14.342	7.48				
70	o-Xylene	10.008	0.1	2138774	1.353	1.352	15.050	15.052	6.63				
71	Styrene	10.422	4.2	1540593	0.974	0.935	15.110	15.111	6.35				
72	1,2-DICHLOROBENZENE-D4	10.000	0	526652	1	1	18.336	18.337	0				
73	Isopropylbenzene	10.383	3.8	2561704	4.864	4.685	15.630	15.639	8.82	-0.0062	0.3931		0.9971
74	Bromoform	10.163	1.6	207142	0.393	0.348	15.660	15.673	18.12				
75	1,1,2,2-Tetrachloroethane	10.756	7.6	354162	0.672	0.625	15.913	15.926	8.36				
76	4-Bromofluorobenzene	10.340	3.4	677781	1.287	1.245	16.046	16.048	8.32				
77	1,2,3-Trichloropropane	10.734	7.3	94743	0.180	0.168	16.165	16.168	8.94				
78	trans-1,4-Dichloro-2-butene	10.856	8.6	107548	0.204	0.188	16.270	16.274	10.76				
79	n-Propylbenzene	10.233	2.3	3371039	6.401	6.255	16.284	16.295	9.47				

*Handwritten signature*

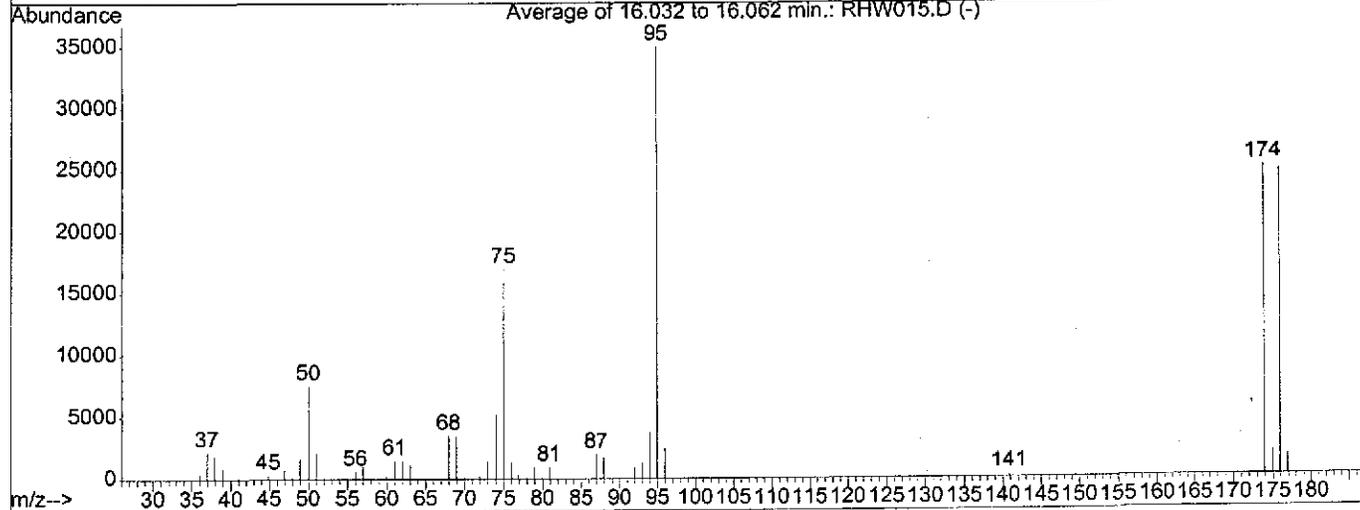
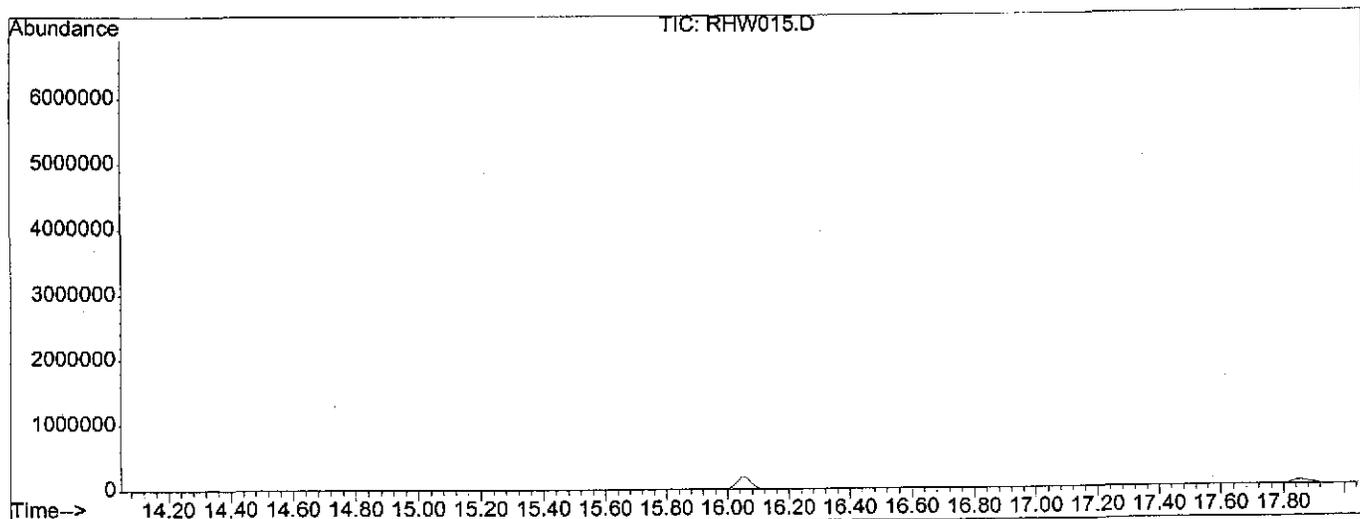
80	Bromobenzene	10.213	2.1	524642	0.996	0.975	16.374	16.375	7.12				
81	1,3,5-Trimethylbenzene	10.066	0.7	1993640	3.785	3.761	16.552	16.552	7.92				
82	2-Chlorotoluene	10.344	3.4	2124758	4.034	3.900	16.582	16.585	10.14				
83	4-Chlorotoluene	9.430	-5.7	1570957	2.983	3.163	16.656	16.663	7.18				
84	tert-Butylbenzene	10.076	0.8	458066	0.870	0.863	17.117	17.118	6.95				
85	1,2,4-Trimethylbenzene	9.991	-0.1	1901812	3.611	3.614	17.176	17.178	7.83				
86	sec-Butylbenzene	9.937	-0.6	2715256	5.156	5.188	17.429	17.431	8.10				
87	p-Isopropyltoluene	10.031	0.3	2096778	3.981	3.969	17.608	17.621	7.26				
88	1,3-Dichlorobenzene	10.013	0.1	1017050	1.931	1.929	17.756	17.758	7.62				
89	1,4-Dichlorobenzene	10.199	2.0	988001	1.876	1.839	17.890	17.895	7.30				
90	Benzyl chloride												
91	n-Butylbenzene	10.078	0.8	2139780	4.063	4.032	18.143	18.153	8.35				
92	1,2-Dichlorobenzene	9.944	-0.6	774306	1.470	1.479	18.366	18.367	5.96				
93	1,2-Dibromo-3-chloropropane	10.737	7.4	40985	0.078	0.072	19.273	19.273	14.38				
94	1,2,4-Trichlorobenzene	9.828	-1.7	480032	0.911	0.927	20.269	20.270	8.69				
95	Hexachlorobutadiene	9.875	-1.3	340815	0.647	0.655	20.417	20.420	10.91				
96	Naphthalene	10.328	3.3	612170	1.162	1.125	20.596	20.596	12.07				
97	1,2,3-Trichlorobenzene	9.754	-2.5	356463	0.677	0.694	20.878	20.888	13.66				

Spike Amount = Nominal Amount \* M

*Re  
8-d-ld*

Data File : D:\HPCHEM\1\DATA\12H16\RHW015.D  
 Acq On : 16 Aug 2012 9:31 am  
 Sample : BFB06H02  
 Misc : T/ CHK  
 MS Integration Params: RTE.P  
 Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260

Vial: 1  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00



AutoFind: Scans 962, 963, 964; Background Corrected with Scan 958

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	7573	PASS
75	95	30	60	48.5	16989	PASS
95	95	100	100	100.0	35029	PASS
96	95	5	9	7.0	2449	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.4	24994	PASS
175	174	5	9	7.6	1892	PASS
176	174	95	101	98.8	24687	PASS
177	176	5	9	6.5	1601	PASS

*M 8-21-12*

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H16\RHW016.D  
 Acq On : 16 Aug 2012 10:02 am  
 Sample : IVO06H1501  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I 1,4-DIFLUOROBENZENE	10.000	10.000	0.0	112	0.00
2 T,M Dichlorodifluoromethane	10.000	9.824	1.8	110	0.00
3 P,T,M Chloromethane	10.000	10.472	-4.7	114	0.00
4 C,T,M Vinyl chloride	10.000	10.328	-3.3	115	0.02
5 T,M Bromomethane	10.000	10.472	-4.7	109	0.00
6 T,M Chloroethane	10.000	10.573	-5.7	109	0.00
7 T,M Dichlorofluoromethane	10.000	9.964	0.4	107	0.00
8 T,M Trichlorofluoromethane	10.000	10.192	-1.9	109	-0.02
9 T,M Acrolein	50.000	57.206	-14.4	126	0.00
10 T,M 1,1,2-Trichloro-1,2,2-trifl	10.000	10.065	-0.6	113	0.00
11 T,M Acetone	50.000	51.048	-2.1	115	0.00
12 C,T,M 1,1-Dichloroethene	10.000	10.137	-1.4	112	-0.02
13 T,M tert-Butyl alcohol	50.000	56.186	-12.4	110	0.00
14 T,M Acetonitrile	-1.000	0.000	0.0	113	0.00
15 T,M Methyl acetate	10.000	10.068	-0.7	121	0.00
16 T,M Iodomethane	10.000	10.290	-2.9	115	0.00
17 T,M Methylene chloride	10.000	10.870	-8.7	112	0.04
18 T,M Carbon disulfide	10.000	11.695	-17.0	124	-0.02
19 T,M Acrylonitrile	50.000	53.093	-6.2	117	0.00
20 T,M tert-Butyl methyl ether (MT)	10.000	10.073	-0.7	108	0.00
21 T,M trans-1,2-Dichloroethene	10.000	10.028	-0.3	112	-0.02
22 T,M Isopropyl ether (DIPE)	10.000	9.940	0.6	108	0.00
23 T,M Vinyl acetate	10.000	10.735	-7.3	114	0.00
24 P,T,M 1,1-Dichloroethane	10.000	9.548	4.5	105	0.00
25 T,M 2-Butanol	50.000	54.187	-8.4	129	0.00
26 T,M tert-Butyl ethyl ether (ETB)	10.000	10.081	-0.8	110	-0.02
27 T,M 2-Butanone	50.000	51.017	-2.0	117	-0.02
28 T,M 2,2-Dichloropropane	10.000	10.821	-8.2	117	0.00
29 T,M cis-1,2-Dichloroethene	10.000	10.088	-0.9	114	0.00
30 C,T,M Chloroform	10.000	9.714	2.9	110	-0.02
31 T,M tert-Amyl alcohol	-1.000	0.000	0.0	105	0.00
32 T,M Bromochloromethane	10.000	10.016	-0.2	109	0.00
33 T,M Tetrahydrofuran	10.000	9.888	1.1	111	0.00
34 S Dibromofluoromethane	10.000	10.596	-6.0	109	-0.02
35 T,M 1,1,1-Trichloroethane	10.000	9.918	0.8	108	-0.02
36 T,M Cyclohexane	10.000	10.698	-7.0	127	-0.01
37 T,M tert-Amyl methyl ether (TAM)	10.000	10.642	-6.4	111	0.00
38 S 1,2-Dichloroethane-d4	10.000	10.073	-0.7	103	-0.02
39 I CHLOROBENZENE-D5	10.000	10.000	0.0	110	0.00
40 T,M 2,2,4-Trimethylpentane	10.000	8.293	17.1	92	0.00

(#) = Out of Range

RHW016.D VO06H15.M

Mon Aug 20 16:00:11 2012

TM 8-21-12 Page 1

2032

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H16\RHW016.D  
 Acq On : 16 Aug 2012 10:02 am  
 Sample : IVO06H1501  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	Amount	Calc.	%Dev	Area%	Dev (min)
41 T,M 1,1-Dichloropropene	10.000	10.114	-1.1	114	0.00
42 T,M Carbon tetrachloride	10.000	9.911	0.9	109	-0.02
43 T,M 1,2-Dichloroethane	10.000	9.612	3.9	106	0.00
44 T,M Benzene	10.000	9.816	1.8	112	0.00
45 T,M Trichloroethene	10.000	10.006	-0.1	112	0.00
46 T,M Methylcyclohexane	10.000	10.131	-1.3	111	-0.02
47 C,T,M 1,2-Dichloropropane	10.000	9.994	0.1	111	-0.02
48 T,M 1,4-Dioxane	200.000	222.394	-11.2	120	0.00
49 T,M Bromodichloromethane	10.000	10.149	-1.5	109	0.00
50 T,M Dibromomethane	10.000	10.358	-3.6	113	0.00
51 T,M 2-Chloroethyl vinyl ether	10.000	10.536	-5.4	109	-0.02
52 T,M 4-Methyl-2-pentanone	50.000	53.865	-7.7	114	0.00
53 T,M cis-1,3-Dichloropropene	10.000	10.612	-6.1	113	0.00
54 S Toluene-d8	10.000	10.605	-6.1	110	0.00
55 C,T,M Toluene	10.000	9.869	1.3	110	0.00
56 T,M Ethyl methacrylate	10.000	10.733	-7.3	112	0.00
57 T,M trans-1,3-Dichloropropene	10.000	10.482	-4.8	111	0.00
58 T,M 1,1,2-Trichloroethane	10.000	10.369	-3.7	111	0.00
59 T,M 2-Hexanone	50.000	55.018	-10.0	116	0.00
60 T,M 1,3-Dichloropropane	10.000	10.199	-2.0	109	-0.02
61 T,M Tetrachloroethene	10.000	9.998	0.0	112	-0.02
62 T,M Dibromochloromethane	10.000	10.525	-5.3	110	0.00
63 T,M 2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
64 T,M 1,2-Dibromoethane	10.000	10.651	-6.5	113	-0.02
65 T,M 1-Chlorohexane	10.000	10.209	-2.1	110	0.00
66 P, T,M Chlorobenzene	10.000	9.966	0.3	113	0.00
67 T,M 1,1,1,2-Tetrachloroethane	10.000	10.275	-2.8	110	0.00
68 C,T,M Ethylbenzene	10.000	10.056	-0.6	110	0.00
69 T,M m-Xylene & p-Xylene	20.000	19.384	3.1	110	0.00
70 T,M o-Xylene	10.000	10.008	-0.1	108	0.00
71 T,M Styrene	10.000	10.422	-4.2	111	0.00
72 I 1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	108	0.00
73 T,M Isopropylbenzene	10.000	10.383	-3.8	111	0.00
74 P,T,M Bromoform	10.000	10.163	-1.6	113	-0.02
75 P,T,M 1,1,2,2-Tetrachloroethane	10.000	10.756	-7.6	113	-0.02
76 S 4-Bromofluorobenzene	10.000	10.340	-3.4	107	0.00
77 T,M 1,2,3-Trichloropropane	10.000	10.734	-7.3	111	0.00
78 T,M trans-1,4-Dichloro-2-butene	10.000	10.856	-8.6	111	0.00
79 T,M n-Propylbenzene	10.000	10.233	-2.3	108	0.00
80 T,M Bromobenzene	10.000	10.213	-2.1	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H16\RHW016.D  
 Acq On : 16 Aug 2012 10:02 am  
 Sample : IVO06H1501  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81 T,M 1,3,5-Trimethylbenzene	10.000	10.066	-0.7	109	0.00
82 T,M 2-Chlorotoluene	10.000	10.344	-3.4	111	0.00
83 T,M 4-Chlorotoluene	10.000	9.430	5.7	104	0.00
84 T,M tert-Butylbenzene	10.000	10.076	-0.8	110	0.00
85 T,M 1,2,4-Trimethylbenzene	10.000	9.992	0.1	108	0.00
86 T,M sec-Butylbenzene	10.000	9.937	0.6	108	0.00
87 T,M p-Isopropyltoluene	10.000	10.031	-0.3	109	-0.02
88 T,M 1,3-Dichlorobenzene	10.000	10.013	-0.1	109	0.00
89 T,M 1,4-Dichlorobenzene	10.000	10.199	-2.0	111	0.00
90 T,M Benzyl chloride	-1.000	0.000	0.0	0	0.00
91 T,M n-Butylbenzene	10.000	10.078	-0.8	111	-0.02
92 T,M 1,2-Dichlorobenzene	10.000	9.944	0.6	109	0.00
93 T,M 1,2-Dibromo-3-chloropropane	10.000	10.737	-7.4	115	0.00
94 T,M 1,2,4-Trichlorobenzene	10.000	9.828	1.7	111	0.00
95 T,M Hexachlorobutadiene	10.000	9.875	1.3	108	0.00
96 T,M Naphthalene	10.000	10.328	-3.3	111	0.00
97 T,M 1,2,3-Trichlorobenzene	10.000	9.754	2.5	110	-0.02

*Aug-21-12*

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H16\RHW016.D  
 Acq On : 16 Aug 2012 10:02 am  
 Sample : IVO06H1501  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 I 1,4-DIFLUOROBENZENE	1.000	1.000	0.0	112	0.00
2 T,M Dichlorodifluoromethane	0.258	0.253	1.9	110	0.00
3 P,T,M Chloromethane	0.310	0.325	-4.8	114	0.00
4 C,T,M Vinyl chloride	0.233	0.240	-3.0	115	0.02
5 T,M Bromomethane	0.187	0.195	-4.3	109	0.00
6 T,M Chloroethane	0.159	0.168	-5.7	109	0.00
7 T,M Dichlorofluoromethane	0.549	0.547	0.4	107	0.00
8 T,M Trichlorofluoromethane	0.355	0.362	-2.0	109	-0.02
9 T,M Acrolein	0.012	0.014	-16.7	126	0.00
10 T,M 1,1,2-Trichloro-1,2,2-trifl	0.168	0.169	-0.6	113	0.00
11 T,M Acetone	0.034	0.035	-2.9	115	0.00
12 C,T,M 1,1-Dichloroethene	0.525	0.532	-1.3	112	-0.02
13 T,M tert-Butyl alcohol	0.010	0.011	-10.0	110	0.00
14 T,M Acetonitrile	0.000	0.000	0.0	113	0.00
15 T,M Methyl acetate	0.111	0.112	-0.9	121	0.00
16 T,M Iodomethane	0.451	0.464	-2.9	115	0.00
17 T,M Methylene chloride	0.433	0.392	9.5	112	0.04
18 T,M Carbon disulfide	1.073	1.255	-17.0	124	-0.02
19 T,M Acrylonitrile	0.043	0.045	-4.7	117	0.00
20 T,M tert-Butyl methyl ether (MT)	0.470	0.474	-0.9	108	0.00
21 T,M trans-1,2-Dichloroethene	0.556	0.558	-0.4	112	-0.02
22 T,M Isopropyl ether (DIPE)	1.082	1.076	0.6	108	0.00
23 T,M Vinyl acetate	0.376	0.404	-7.4	114	0.00
24 P,T,M 1,1-Dichloroethane	0.637	0.608	4.6	105	0.00
25 T,M 2-Butanol	0.009	0.010	-11.1	129	0.00
26 T,M tert-Butyl ethyl ether (ETB)	0.791	0.797	-0.8	110	-0.02
27 T,M 2-Butanone	0.063	0.065	-3.2	117	-0.02
28 T,M 2,2-Dichloropropane	0.319	0.345	-8.2	117	0.00
29 T,M cis-1,2-Dichloroethene	0.365	0.369	-1.1	114	0.00
30 C,T,M Chloroform	0.578	0.562	2.8	110	-0.02
31 T,M tert-Amyl alcohol	0.000	0.000	0.0	105	0.00
32 T,M Bromochloromethane	0.255	0.255	0.0	109	0.00
33 T,M Tetrahydrofuran	0.047	0.041	12.8	111	0.00
34 S Dibromofluoromethane	0.302	0.320	-6.0	109	-0.02
35 T,M 1,1,1-Trichloroethane	0.471	0.467	0.8	108	-0.02
36 T,M Cyclohexane	0.779	0.833	-6.9	127	-0.01
37 T,M tert-Amyl methyl ether (TAM)	0.123	0.131	-6.5	111	0.00
38 S 1,2-Dichloroethane-d4	0.252	0.254	-0.8	103	-0.02
39 I CHLOROBENZENE-D5	1.000	1.000	0.0	110	0.00
40 T,M 2,2,4-Trimethylpentane	1.630	1.352	17.1	92	0.00

(#) = Out of Range

RHW016.D VO06H15.M

Mon Aug 20 16:00:17 2012

*Handwritten:* 8-21-12

Page 1

2035

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H16\RHWO16.D  
 Acq On : 16 Aug 2012 10:02 am  
 Sample : IVO06H1501  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41 T,M 1,1-Dichloropropene	0.194	0.197	-1.5	114	0.00
42 T,M Carbon tetrachloride	0.506	0.502	0.8	109	-0.02
43 T,M 1,2-Dichloroethane	0.367	0.353	3.8	106	0.00
44 T,M Benzene	1.512	1.484	1.9	112	0.00
45 T,M Trichloroethene	0.432	0.432	0.0	112	0.00
46 T,M Methylcyclohexane	0.697	0.706	-1.3	111	-0.02
47 C,T,M 1,2-Dichloropropane	0.384	0.383	0.3	111	-0.02
48 T,M 1,4-Dioxane	0.001	0.001	0.0	120	0.00
49 T,M Bromodichloromethane	0.466	0.473	-1.5	109	0.00
50 T,M Dibromomethane	0.166	0.172	-3.6	113	0.00
51 T,M 2-Chloroethyl vinyl ether	0.124	0.130	-4.8	109	-0.02
52 T,M 4-Methyl-2-pentanone	0.198	0.213	-7.6	114	0.00
53 T,M cis-1,3-Dichloropropene	0.539	0.572	-6.1	113	0.00
54 S Toluene-d8	1.276	1.353	-6.0	110	0.00
55 C,T,M Toluene	1.566	1.546	1.3	110	0.00
56 T,M Ethyl methacrylate	0.257	0.276	-7.4	112	0.00
57 T,M trans-1,3-Dichloropropene	0.395	0.414	-4.8	111	0.00
58 T,M 1,1,2-Trichloroethane	0.197	0.204	-3.6	111	0.00
59 T,M 2-Hexanone	0.118	0.129	-9.3	116	0.00
60 T,M 1,3-Dichloropropane	0.409	0.418	-2.2	109	-0.02
61 T,M Tetrachloroethene	0.340	0.340	0.0	112	-0.02
62 T,M Dibromochloromethane	0.265	0.279	-5.3	110	0.00
63 T,M 2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
64 T,M 1,2-Dibromoethane	0.205	0.218	-6.3	113	-0.02
65 T,M 1-Chlorohexane	0.660	0.674	-2.1	110	0.00
66 P, T,M Chlorobenzene	0.939	0.936	0.3	113	0.00
67 T,M 1,1,1,2-Tetrachloroethane	0.297	0.306	-3.0	110	0.00
68 C,T,M Ethylbenzene	1.759	1.769	-0.6	110	0.00
69 T,M m-Xylene & p-Xylene	1.351	1.309	3.1	110	0.00
70 T,M o-Xylene	1.352	1.353	-0.1	108	0.00
71 T,M Styrene	0.935	0.974	-4.2	111	0.00
72 I 1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	108	0.00
73 T,M Isopropylbenzene	4.685	4.864	-3.8	111	0.00
74 P,T,M Bromoform	0.348	0.393	-12.9	113	-0.02
75 P,T,M 1,1,2,2-Tetrachloroethane	0.625	0.672	-7.5	113	-0.02
76 S 4-Bromofluorobenzene	1.245	1.287	-3.4	107	0.00
77 T,M 1,2,3-Trichloropropane	0.168	0.180	-7.1	111	0.00
78 T,M trans-1,4-Dichloro-2-butene	0.188	0.204	-8.5	111	0.00
79 T,M n-Propylbenzene	6.255	6.401	-2.3	108	0.00
80 T,M Bromobenzene	0.975	0.996	-2.2	110	0.00

(#) = Out of Range  
 RHWO16.D VO06H15.M

Mon Aug 20 16:00:19 2012

*M 8-21-12*

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H16\RH016.D  
 Acq On : 16 Aug 2012 10:02 am  
 Sample : IVO06H1501  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 T,M 1,3,5-Trimethylbenzene	3.761	3.785	-0.6	109	0.00
82 T,M 2-Chlorotoluene	3.900	4.034	-3.4	111	0.00
83 T,M 4-Chlorotoluene	3.163	2.983	5.7	104	0.00
84 T,M tert-Butylbenzene	0.863	0.870	-0.8	110	0.00
85 T,M 1,2,4-Trimethylbenzene	3.614	3.611	0.1	108	0.00
86 T,M sec-Butylbenzene	5.188	5.156	0.6	108	0.00
87 T,M p-Isopropyltoluene	3.969	3.981	-0.3	109	-0.02
88 T,M 1,3-Dichlorobenzene	1.929	1.931	-0.1	109	0.00
89 T,M 1,4-Dichlorobenzene	1.839	1.876	-2.0	111	0.00
90 T,M Benzyl chloride	0.000	0.000	0.0	0#	0.00
91 T,M n-Butylbenzene	4.032	4.063	-0.8	111	-0.02
92 T,M 1,2-Dichlorobenzene	1.479	1.470	0.6	109	0.00
93 T,M 1,2-Dibromo-3-chloropropane	0.072	0.078	-8.3	115	0.00
94 T,M 1,2,4-Trichlorobenzene	0.927	0.911	1.7	111	0.00
95 T,M Hexachlorobutadiene	0.655	0.647	1.2	108	0.00
96 T,M Naphthalene	1.125	1.162	-3.3	111	0.00
97 T,M 1,2,3-Trichlorobenzene	0.694	0.677	2.4	110	-0.02

*Handwritten:* In 8-21-12

Data File : D:\HPCHEM\1\DATA\12H16\RHW016.D  
 Acq On : 16 Aug 2012 10:02 am  
 Sample : IVO06H1501  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 15:53 2012

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1860809	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1581053	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	526652	10.00	ug/l	0.00

#### System Monitoring Compounds

34) Dibromofluoromethane	7.65	111	595307	10.60	ug/l	-0.02
Spiked Amount	10.000		Recovery	=	106.00%	
38) 1,2-Dichloroethane-d4	8.48	65	472685	10.07	ug/l	-0.02
Spiked Amount	10.000		Recovery	=	100.70%	
54) Toluene-d8	11.62	98	2139440	10.60	ug/l	0.00
Spiked Amount	10.000		Recovery	=	106.00%	
76) 4-Bromofluorobenzene	16.05	95	677781	10.34	ug/l	0.00
Spiked Amount	10.000		Recovery	=	103.40%	

#### Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.89	85	471407	9.82	ug/l	100
3) Chloromethane	2.15	50	603952	10.47	ug/l	100
4) Vinyl chloride	2.31	62	447330	10.33	ug/l	100
5) Bromomethane	2.81	94	363435	10.47	ug/l	97
6) Chloroethane	2.92	64	313116	10.57	ug/l	97
7) Dichlorofluoromethane	2.96	67	1017847	9.96	ug/l	99
8) Trichlorofluoromethane	3.23	101	673832	10.19	ug/l	99
9) Acrolein	3.77	56	130783	57.21	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	3.83	151	314914	10.07	ug/l	100
11) Acetone	3.86	43	323536	51.05	ug/l	98
12) 1,1-Dichloroethene	4.05	61	990521	10.14	ug/l	98
13) tert-Butyl alcohol	4.15	59	101052	56.19	ug/l	95
15) Methyl acetate	4.54	43	208432	10.07	ug/l	100
16) Iodomethane	4.52	142	862656	10.29	ug/l	97
17) Methylene chloride	4.81	49	729403	10.87	ug/l	98
18) Carbon disulfide	4.78	76	2335412	11.69	ug/l	100
19) Acrylonitrile	4.97	53	422792	53.09	ug/l	99
20) tert-Butyl methyl ether (M	5.01	73	881351	10.07	ug/l	98
21) trans-1,2-Dichloroethene	5.22	61	1038370	10.03	ug/l	96
22) Isopropyl ether (DIPE)	5.80	45	2001510	9.94	ug/l	98
23) Vinyl acetate	6.00	43	751016	10.74	ug/l	98
24) 1,1-Dichloroethane	5.97	63	1131093	9.55	ug/l	98
25) 2-Butanol	6.37	45	95311	54.19	ug/l	98
26) tert-Butyl ethyl ether (ET	6.50	59	1483732	10.08	ug/l	100
27) 2-Butanone	6.71	43	600112	51.02	ug/l	100
28) 2,2-Dichloropropane	6.93	77	642452	10.82	ug/l	99
29) cis-1,2-Dichloroethene	7.02	96	686039	10.09	ug/l	96

(#) = qualifier out of range (m) = manual integration  
 RHW016.D VO06H15.M Mon Aug 20 16:00:28 2012

*Handwritten:* 8-21-12

Data File : D:\HPCHEM\1\DATA\12H16\RHW016.D  
 Acq On : 16 Aug 2012 10:02 am  
 Sample : IVO06H1501  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 15:53 2012

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
30) Chloroform	7.27	83	1045522	9.71	ug/l	99
32) Bromochloromethane	7.56	49	474413	10.02	ug/l	97
33) Tetrahydrofuran	7.62	42	75461	9.89	ug/l	99
35) 1,1,1-Trichloroethane	7.94	97	868363	9.92	ug/l	99
36) Cyclohexane	7.96	56	1550794	10.70	ug/l	92
37) tert-Amyl methyl ether (TA	8.43	87	244051	10.64	ug/l	99
40) 2,2,4-Trimethylpentane	8.09	57	2136863	8.29	ug/l #	47
41) 1,1-Dichloropropene	8.21	110	311010	10.11	ug/l	99
42) Carbon tetrachloride	8.36	119	792907	9.91	ug/l	100
43) 1,2-Dichloroethane	8.64	62	557820	9.61	ug/l	98
44) Benzene	8.66	78	2346500	9.82	ug/l	100
45) Trichloroethene	9.67	130	682938	10.01	ug/l	99
46) Methylcyclohexane	9.74	83	1115968	10.13	ug/l	98
47) 1,2-Dichloropropane	9.95	63	606068	9.99	ug/l	96
48) 1,4-Dioxane	10.38	88	41784	222.39	ug/l	99
49) Bromodichloromethane	10.34	83	747350	10.15	ug/l	99
50) Dibromomethane	10.43	93	272570	10.36	ug/l	99
51) 2-Chloroethyl vinyl ether	10.86	63	206300	10.54	ug/l	99
52) 4-Methyl-2-pentanone	10.90	43	1683849	53.87	ug/l	98
53) cis-1,3-Dichloropropene	11.23	75	903757	10.61	ug/l	98
55) Toluene	11.75	91	2443694	9.87	ug/l	100
56) Ethyl methacrylate	12.05	69	435851	10.73	ug/l	98
57) trans-1,3-Dichloropropene	12.05	75	653879	10.48	ug/l	98
58) 1,1,2-Trichloroethane	12.30	97	322523	10.37	ug/l	99
59) 2-Hexanone	12.31	43	1023658	55.02	ug/l	99
60) 1,3-Dichloropropane	12.70	76	660249	10.20	ug/l	100
61) Tetrachloroethene	12.79	164	538206	10.00	ug/l	100
62) Dibromochloromethane	13.13	129	441326	10.52	ug/l	100
64) 1,2-Dibromoethane	13.44	107	344825	10.65	ug/l	100
65) 1-Chlorohexane	13.71	91	1065278	10.21	ug/l	97
66) Chlorobenzene	14.13	112	1479703	9.97	ug/l	97
67) 1,1,1,2-Tetrachloroethane	14.20	131	483160	10.28	ug/l	100
68) Ethylbenzene	14.22	91	2796277	10.06	ug/l	99
69) m-Xylene & p-Xylene	14.34	91	4139569	19.38	ug/l	99
70) o-Xylene	15.05	91	2138774	10.01	ug/l	98
71) Styrene	15.11	104	1540593	10.42	ug/l	98
73) Isopropylbenzene	15.63	105	2561704	10.38	ug/l	99
74) Bromoform	15.66	173	207142	10.16	ug/l	100
75) 1,1,2,2-Tetrachloroethane	15.91	83	354162	10.76	ug/l	99
77) 1,2,3-Trichloropropane	16.17	110	94743	10.73	ug/l	98
78) trans-1,4-Dichloro-2-buten	16.27	53	107548	10.86	ug/l	99

(#) = qualifier out of range (m) = manual integration  
 RHW016.D VO06H15.M Mon Aug 20 16:00:29 2012

*W  
8-20-12*

Data File : D:\HPCHEM\1\DATA\12H16\RHW016.D  
 Acq On : 16 Aug 2012 10:02 am  
 Sample : IVO06H1501  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 20 15:53 2012

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) n-Propylbenzene	16.28	91	3371039	10.23	ug/l	99
80) Bromobenzene	16.37	156	524642	10.21	ug/l	97
81) 1,3,5-Trimethylbenzene	16.55	105	1993640	10.07	ug/l	98
82) 2-Chlorotoluene	16.58	91	2124758	10.34	ug/l	99
83) 4-Chlorotoluene	16.66	91	1570957	9.43	ug/l	99
84) tert-Butylbenzene	17.12	134	458066	10.08	ug/l	97
85) 1,2,4-Trimethylbenzene	17.18	105	1901812	9.99	ug/l	100
86) sec-Butylbenzene	17.43	105	2715256	9.94	ug/l	100
87) p-Isopropyltoluene	17.61	119	2096778	10.03	ug/l	99
88) 1,3-Dichlorobenzene	17.76	146	1017050	10.01	ug/l	100
89) 1,4-Dichlorobenzene	17.89	146	988001	10.20	ug/l	99
91) n-Butylbenzene	18.14	91	2139780	10.08	ug/l	99
92) 1,2-Dichlorobenzene	18.37	146	774306	9.94	ug/l	99
93) 1,2-Dibromo-3-chloropropan	19.27	157	40985	10.74	ug/l	98
94) 1,2,4-Trichlorobenzene	20.27	180	480032	9.83	ug/l	100
95) Hexachlorobutadiene	20.42	225	340815	9.87	ug/l	99
96) Naphthalene	20.60	128	612170	10.33	ug/l	100
97) 1,2,3-Trichlorobenzene	20.88	180	356463	9.75	ug/l	100

*M*  
*8-21-12*



# DAILY CALIBRATIONS

5A  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc      Contract: B & B, MONTHLY CITY WELL SAMPLING  
 Lab Code: EMX7      Case No.:      SAS No.:      SDG No.: 12H184  
 Lab File ID: RHW298      BFB Injection Date: 08/30/12  
 Instrument ID: 06      BFB Injection Time: 11:56  
 GC Column: RTX502.2ID:0.25mm (mm)      Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.84
75	30.0 - 60.0% of mass 95	48.57
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	0.00( 0.0)1
174	Greater than 50% of mass 95	77.30
175	5.0 - 9.0% of mass 174	5.70( 7.4)1
176	95.0 - 101.0% of mass 174	74.95( 97.0)1
177	5.0 - 9.0% of mass 176	4.94( 6.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV006H1513	RHW299		12:26
2	MBLK1W	VO06H15B	RHW303		14:35
3	LCS1W	VO06H15L	RHW300		13:05
4	LCD1W	VO06H15C	RHW301		13:35
5	08-27-12-CW-6	H184-03	RHW304		15:05
6	08-27-12-CW-6MS	H184-03M	RHW305		15:35
7	08-27-12-CW-6MSD	H184-03S	RHW306		16:05
8	08-27-12-TB-1	H184-08	RHW308		17:06
9	08-27-12-CW-1	H184-01	RHW310		18:06
10	08-27-12-CW-5	H184-02	RHW311		18:36
11	08-27-12-CW-8	H184-04	RHW312		19:07
12	08-27-12-CW-9	H184-05	RHW313		19:38
13	08-27-12-CW-10	H184-06	RHW314		20:08
14	08-27-12-FDUP-1	H184-07	RHW315		20:38

8A  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc  
Lab Code: EMKT  
Lab File ID: RHW008  
Instrument ID: 06  
GC Column: RTX502.2

ID: 0.25mm (mm)

Project: B & B, MONTHLY CITY WELL SAMPLING  
SDG No.: 12H184  
Date Analyzed: 08/15/12  
Time Analyzed: 21:54  
Heated Purge: (Y/N) N

	IS1(DFB)		IS2(CBZ)		IS3(DCB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1654332	9.15	1432235	14.07	489315	18.34
UPPER LIMIT	3308664	9.65	2864470	14.57	978630	18.84
LOWER LIMIT	827166	8.65	716118	13.57	244658	17.84
=====						
SAMPLE ID						
1 VSTD010	1764668	9.15	1476950	14.07	503900	18.34
2 MBLK1W	1902452	9.15	1585876	14.09	565506	18.34
3 LCS1W	1845728	9.15	1545133	14.07	509204	18.34
4 LCD1W	1735013	9.15	1430444	14.08	496485	18.34
5 08-27-12-CW-6	1764732	9.16	1490386	14.07	530410	18.34
6 08-27-12-CW-6MS	1641864	9.15	1370140	14.07	478394	18.34
7 08-27-12-CW-6MSD	1808728	9.16	1543625	14.08	507288	18.34
8 08-27-12-TB-1	1753935	9.16	1489019	14.08	543966	18.34
9 08-27-12-CW-1	1767267	9.15	1471965	14.08	540182	18.34
10 08-27-12-CW-5	1727669	9.15	1467382	14.07	530487	18.34
11 08-27-12-CW-8	1708846	9.15	1433050	14.08	511388	18.34
12 08-27-12-CW-9	1674428	9.15	1417500	14.07	517180	18.34
13 08-27-12-CW-10	1670328	9.15	1447304	14.07	526110	18.34
14 08-27-12-FDUP-1	1696613	9.15	1444529	14.07	518097	18.34

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

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

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

CONTINUE\_CALIBRATION - CALIBRATION VERIFICATION

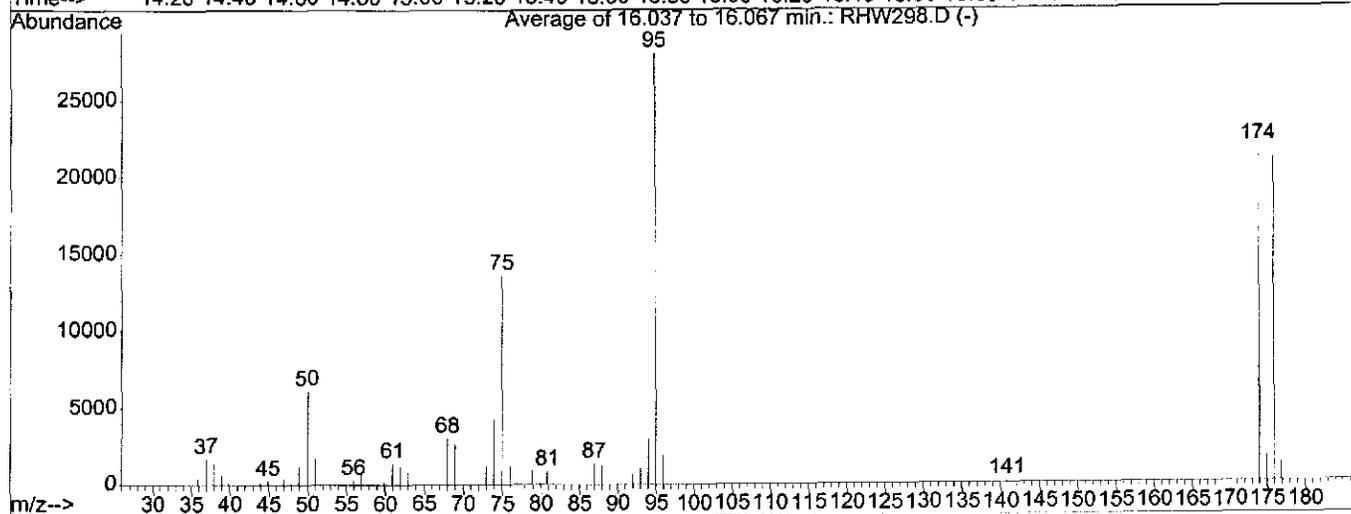
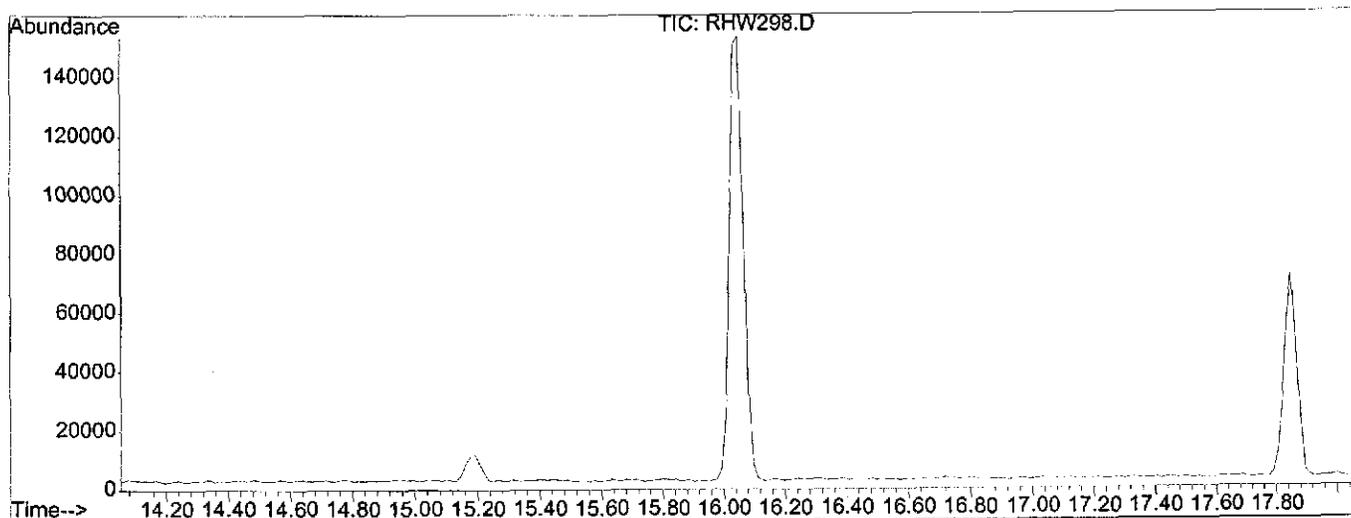
Instrument ID :T006  
 IC Beginning Date/Time :08/15/12 19:22  
 SpTke Amount :10 PPB  
 CC/CV File :RHW299  
 IC File :RHW008

Column Spec :RTX502.2 ID :0.25MM  
 IC Ending Date/Time :08/15/12 23:53  
 HPChem Method :yo0gh13  
 Date\_Time :08/30/12 12:26

M	Idx	Parameters	CC Con	CC% D	CC Resp	CCRRF	AVKRF	CC Rtm	AVRtm	% RSD	Co XU	Co X1	Co X2	Co CoF
1	1	1,4-DIFLUOROBENZENE	10.000	0.0	1764668	0.237	0.258	9.154	9.149	0.0				
2	2	Dichlorodifluoromethane	9.177	-8	417618	0.237	0.258	1.898	1.894	6.32				
3	3	Chloromethane	9.801	-2	536071	0.237	0.258	2.151	2.147	0.91				
4	4	Vinyl chloride	9.848	-1	404501	0.237	0.258	2.300	2.300	0.19				
5	5	Bromomethane	10.426	4	343148	0.194	0.187	5.820	5.916	16.72				
6	6	Chloroethane	10.064	0	282644	0.160	0.159	5.959	5.939	0.41				
7	7	Dichlorofluoromethane	10.684	6	1035080	0.587	0.549	3.969	3.960	0.35				
8	8	Trichlorofluoromethane	10.350	3	648973	0.368	0.355	3.251	3.238	0.43				
9	9	Acrolein	39.768	-20	86220	0.010	0.012	3.772	3.772	0.90				
10	10	1,1,2-Trichloro-1,2,2-trifluoroethane	10.068	0	298758	0.169	0.168	3.846	3.826	6.69				
11	11	Acetone	54.393	8	326927	0.037	0.034	3.861	3.859	12.26				
12	12	1,1-Dichloroethene	10.340	8	958188	0.543	0.525	4.069	4.063	4.54				
13	13	tert-Butyl alcohol	61.671	23	105187	0.012	0.010	4.173	4.161	12.01				
14	14	Acetonitrile												
15	15	Methyl acetate	9.989	-0.1	794146	0.450	0.451	4.545	4.526	4.90				
16	16	Iodomethane	11.338	13.4	719905	0.408	0.433	4.738	4.788	25.09	0.0211	0.3411		0.9963
17	17	Methylene chloride	9.181	-8	1738670	0.985	1.073	4.798	4.793	8.57				
18	18	Carbon disulfide	54.989	-10	415263	0.047	0.043	4.976	4.973	7.45				
19	19	Acrylonitrile	11.032	10.3	915478	0.519	0.470	5.021	5.018	5.77				
20	20	tert-Butyl methyl ether (MTBE)	10.164	1.6	998136	0.566	0.556	5.244	5.233	5.77				
21	21	trans-1,2-Dichloroethene	10.695	6.9	2042450	1.157	1.082	5.808	5.804	6.46				
22	22	Isopropyl ether (DIPE)	11.359	13.6	753643	0.427	0.376	6.002	6.001	7.85				
23	23	Vinyl acetate	10.247	2.5	1151263	0.652	0.637	5.987	5.971	5.00				
24	24	1,1-Dichloroethane												
25	25	2-Butanol	10.770	7.7	1503193	0.852	0.791	6.522	6.518	6.29				
26	26	tert-Butyl ethyl ether (ETBE)	52.791	-6	588905	0.067	0.063	6.730	6.723	11.92				
27	27	n-Butanone	10.827	-8	609617	0.345	0.319	6.953	6.939	11.92				
28	28	2,2-Dichloropropane	9.952	-10	641831	0.364	0.365	7.028	7.023	4.81				
29	29	cis-1,2-Dichloroethene	10.073	0.7	1028218	0.583	0.578	7.295	7.291	6.39				
30	30	Chloroform												
31	31	tert-Amyl alcohol	10.620	6.2	477070	0.270	0.255	7.563	7.559	5.92				
32	32	Bromochloromethane	10.365	3.9	74795	0.042	0.047	7.622	7.624	25.79	0.0026	0.0384		0.9958
33	33	Tetrahydrofuran	10.773	7.7	573978	0.325	0.302	7.867	7.857	12.90				
34	34	Dibromofluoromethane	10.269	2.7	852654	0.483	0.471	7.964	7.957	5.91				
35	35	1,1,1-Trichloroethane												
36	36	Cyclohexane												
37	37	tert-Amyl methyl ether (TAME)	11.049	10.5	240303	0.136	0.123	8.440	8.433	7.49				
38	38	1,2-Dichloroethane-d4	10.788	7.9	480106	0.272	0.252	8.499	8.492	11.03				
39	39	CHLORO BENZENE-D5	10.000	0	1476950	1	1	14.075	14.071	0				
40	40	2,2,4-Trimethylpentane	10.177	1.8	292376	0.198	0.194	8.232	8.220	4.25				
41	41	1,1-Dichloropropane	10.370	3.7	775025	0.525	0.506	8.380	8.376	5.49				
42	42	Carbon tetrachloride	10.631	-0.3	576346	0.390	0.367	8.648	8.646	6.76				
43	43	1,2-Dichloroethane	10.142	0.3	2264936	1.534	1.512	8.663	8.659	9.36				
44	44	Benzene	9.822	-1.8	626307	0.424	0.432	9.674	9.670	6.12				
45	45	Trichloroethene												
46	46	Methylcyclohexane	10.379	3.8	587997	0.398	0.384	9.971	9.964	4.61				
47	47	1,2-Dichloropropane	10.922	8.3	37546	0.001	0.001	10.388	10.385	11.65				
48	48	1,4-Dioxane	10.829	8.3	744948	0.504	0.466	10.343	10.339	5.58				
49	49	Bromodichloromethane	10.550	5.5	259355	0.176	0.166	10.433	10.427	8.84				
50	50	Dibromomethane	8.715	-12	159403	0.108	0.108	10.878	10.870	8.84				
51	51	2-Chloroethyl vinyl ether	58.156	16.3	1698281	0.230	0.198	10.909	10.907	5.11				
52	52	4-Methyl-2-pentanone	10.728	7.3	853466	0.578	0.539	11.235	11.234	7.79				
53	53	cis-1,3-Dichloropropene	10.442	4.4	1968038	1.333	1.276	11.622	11.619	8.94				
54	54	Toluene-d8	9.920	-0.8	2294587	1.554	1.566	11.755	11.748	6.76				
55	55	Toluene	11.429	14.3	433585	0.294	0.257	12.053	12.049	7.04				
56	56	Ethyl methacrylate	11.015	10.3	641945	0.435	0.395	12.053	12.049	6.05				
57	57	trans-1,3-Dichloropropene	10.651	16.5	309476	0.210	0.197	12.306	12.301	5.64				
58	58	1,1,2-Trichloroethane	10.855	16.5	1040512	0.141	0.118	12.320	12.321	8.05				
59	59	2-Hexanone	59.866	-8	653457	0.342	0.409	12.722	12.715	6.01				
60	60	1,3-Dichloropropane	10.803	18.1	487646	0.330	0.340	12.811	12.804	4.76				
61	61	Tetrachloroethene	9.697	-3.0	420619	0.285	0.265	13.138	13.134	9.39				
62	62	Dibromochloromethane	10.737	7.4										
63	63	2-Ethyl-1-butanol												
64	64	1,2-Dibromoethane	10.855	8.5	328318	0.222	0.205	13.465	13.458	6.02				
65	65	1-Chlorohexane	10.598	6.0	1033100	0.699	0.660	13.718	13.720	9.61				
66	66	Chlorobenzene	10.188	1.9	1413080	0.957	0.939	14.134	14.132	6.36				
67	67	1,1,1,2-Tetrachloroethane	10.478	4.8	460261	0.312	0.297	14.208	14.204	4.90				
68	68	Ethylbenzene	10.419	4.2	2706499	1.832	1.759	14.223	14.219	9.90				
69	69	m-Xylene & p-Xylene	19.819	-0.9	3953913	1.339	1.351	14.342	14.342	7.48				
70	70	o-Xylene	10.437	4.4	2083799	1.411	1.352	15.056	15.052	6.63				
71	71	Styrene	10.594	5.9	1462938	0.991	0.935	15.115	15.111	6.33				
72	72	1,2-DICHLORO BENZENE-D4	10.000	0	503900	1	1	18.342	18.337	0				
73	73	Isopropylbenzene	10.236	2.4	2416600	4.796	4.685	15.636	15.639	8.82	-0.0062	0.3931		0.9971
74	74	Bromoform	9.759	-5.4	190174	0.377	0.348	15.680	15.673	18.12				
75	75	1,1,2,2-Tetrachloroethane	11.257	12.4	354637	0.704	0.625	15.933	15.926	8.36				
76	76	4-Bromofluorobenzene	10.673	6.7	669437	1.329	1.271	16.053	16.048	8.94				
77	77	1,2,3-Trichloropropane	11.110	11.1	93830	0.186	0.168	16.171	16.174	10.76				
78	78	trans-1,4-Dichloro-2-butene	11.074	10.7	104972	0.208	0.188	16.274	16.274	9.45				
79	79	n-Propylbenzene	10.541	5.4	3322752	6.594	6.222	16.290	16.292	7.90				
80	80	Bromobenzene	10.089	2.0	495878	3.984	3.975	16.379	16.373	7.00				
81	81	1,3,5-Trimethylbenzene	10.258	2.6	1943904	3.858	3.761	16.558	16.558	7.90				
82	82	2-Chlorotoluene	10.457	4.6	2055177	4.079	3.900	16.587	16.585	10.14				
83	83	4-Chlorotoluene	10.068	0.7	1604786	3.185	3.163	16.662	16.663	8.18				
84	84	tert-Butylbenzene	9.921	-0.8	431521	0.856	0.863	17.122	17.118	6.99				
85	85	1,2,4-Trimethylbenzene	10.342	3.4	1883473	3.738	3.614	17.182	17.178	8.93				
86	86	sec-Butylbenzene	10.464	4.6	2735758	4.429	3.988	17.435	17.431	8.10				
87	87	p-Isopropyltoluene	10.430	4.4	2086016	4.140	3.969	17.613	17.621	11.26				
88	88	1,3-Dichlorobenzene	10.225	4.3	893825	1.972	1.929	17.762	17.758	7.62				
89	89	1,4-Dichlorobenzene	10.418	4.2	965660	1.916	1.839	17.896	17.895	7.30				
90	90	Benzyl chloride												
91	91	n-Butylbenzene	10.527	5.3	2138604	4.244	4.032	18.148	18.153	8.35				
92	92	1,2-Dichlorobenzene	9.991	-5.1	744392	1.477	1.476	18.371	18.367	5.06				
93	93	1,2-Dibromo-3-chloropropane	9.450	-9.0	345166	0.058	0.072	19.278	19.273	14.38				
94	94	1,2,4-Trichlorobenzene	9.030	-9.7	422018	0.838	0.927	20.274	20.270	10.61				
95	95	Hexachlorobutadiene	9.322	-6.8	307842	0.611	0.652	20.423	20.420	10.07				
96	96	Naphthalene	9.599	-4.8	544378	1.080	1.125	20.601	20.596	14.01				
97	97	1,2,3-Trichlorobenzene	8.690	-13.1	303862	0.603	0.694	20.884	20.888	13.66				

Data File : D:\HPCHEM\1\DATA\12H30\RHW298.D  
 Acq On : 30 Aug 2012 11:56 am  
 Sample : BFB06H15  
 Misc : T/CHK  
 MS Integration Params: RTE.P  
 Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260

Vial: 1  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00



AutoFind: Scans 962, 963, 964; Background Corrected with Scan 957

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8 ✓	6137	PASS
75	95	30	60	48.6	13649	PASS
95	95	100	100	100.0	28101	PASS
96	95	5	9	6.7	1879	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.3	21723	PASS
175	174	5	9	7.4 ✓	1601	PASS
176	174	95	101	97.0 ✓	21061	PASS
177	176	5	9	6.6 ✓	1388	PASS

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H30\RH299.D  
 Acq On : 30 Aug 2012 12:26 pm  
 Sample : CVO06H1513  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	Amount	Calc.	%Dev	Area	Dev(min)
1 I 1,4-DIFLUOROBENZENE	10.000	10.000	0.0	107	0.00
2 T,M Dichlorodifluoromethane	10.000	9.177	8.2	98	0.00
3 P,T,M Chloromethane	10.000	9.801	2.0	101	0.00
4 C,T,M Vinyl chloride	10.000	9.848	1.5	104	0.00
5 T,M Bromomethane	10.000	10.426	-4.3	103	0.00
6 T,M Chloroethane	10.000	10.064	-0.6	98	0.02
7 T,M Dichlorofluoromethane	10.000	10.684	-6.8	109	0.00
8 T,M Trichlorofluoromethane	10.000	10.351	-3.5	105	0.00
9 T,M Acrolein	50.000	39.768	20.5#	83	0.00
10 T,M 1,1,2-Trichloro-1,2,2-trifl	10.000	10.069	-0.7	107	0.02
11 T,M Acetone	50.000	54.394	-8.8	116	0.00
12 C,T,M 1,1-Dichloroethene	10.000	10.341	-3.4	108	0.00
13 T,M tert-Butyl alcohol	50.000	61.671	-23.3#	115	0.02
14 T,M Acetonitrile	-1.000	0.000	0.0	118	0.00
15 T,M Methyl acetate	10.000	0.000	100.0#	0	-4.54#
16 T,M Iodomethane	10.000	9.989	0.1	106	0.02
17 T,M Methylene chloride	10.000	11.338	-13.4	111	0.00
18 T,M Carbon disulfide	10.000	9.181	8.2	93	0.00
19 T,M Acrylonitrile	50.000	54.989	-10.0	115	0.00
20 T,M tert-Butyl methyl ether (MT	10.000	11.033	-10.3	112	0.00
21 T,M trans-1,2-Dichloroethene	10.000	10.164	-1.6	108	0.00
22 T,M Isopropyl ether (DIPE)	10.000	10.696	-7.0	110	0.00
23 T,M Vinyl acetate	10.000	11.360	-13.6	115	0.00
24 P,T,M 1,1-Dichloroethane	10.000	10.247	-2.5	107	0.02
25 T,M 2-Butanol	50.000	0.000	100.0#	0	-6.37#
26 T,M tert-Butyl ethyl ether (ETB	10.000	10.770	-7.7	112	0.00
27 T,M 2-Butanone	50.000	52.792	-5.6	115	0.00
28 T,M 2,2-Dichloropropane	10.000	10.827	-8.3	111	0.02
29 T,M cis-1,2-Dichloroethene	10.000	9.952	0.5	107	0.00
30 C,T,M Chloroform	10.000	10.073	-0.7	108	0.00
31 T,M tert-Amyl alcohol	-1.000	0.000	0.0	105	0.00
32 T,M Bromochloromethane	10.000	10.621	-6.2	110	0.00
33 T,M Tetrahydrofuran	10.000	10.366	-3.7	110	0.00
34 S Dibromofluoromethane	10.000	10.773	-7.7	105	0.00
35 T,M 1,1,1-Trichloroethane	10.000	10.269	-2.7	106	0.00
36 T,M Cyclohexane	10.000	0.000	100.0#	0	-7.97#
37 T,M tert-Amyl methyl ether (TAM	10.000	11.049	-10.5	110	0.00
38 S 1,2-Dichloroethane-d4	10.000	10.789	-7.9	104	0.00
39 I CHLOROBENZENE-D5	10.000	10.000	0.0	103	0.00
40 T,M 2,2,4-Trimethylpentane	10.000	0.000	100.0#	0	-8.09#

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H30\RHW299.D  
 Acq On : 30 Aug 2012 12:26 pm  
 Sample : CVO06H1513  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	Amount	Calc.	%Dev	Area%	Dev (min)
41 T,M 1,1-Dichloropropene	10.000	10.178	-1.8	107	0.02
42 T,M Carbon tetrachloride	10.000	10.370	-3.7	106	0.00
43 T,M 1,2-Dichloroethane	10.000	10.631	-6.3	110	0.00
44 T,M Benzene	10.000	10.143	-1.4	108	0.00
45 T,M Trichloroethene	10.000	9.823	1.8	102	0.00
46 T,M Methylcyclohexane	10.000	0.000	100.0#	0	-9.76#
47 C,T,M 1,2-Dichloropropane	10.000	10.379	-3.8	107	0.00
48 T,M 1,4-Dioxane	200.000	213.923	-7.0	108	0.00
49 T,M Bromodichloromethane	10.000	10.829	-8.3	109	0.00
50 T,M Dibromomethane	10.000	10.551	-5.5	108	0.00
51 T,M 2-Chloroethyl vinyl ether	10.000	8.715	12.9	85	0.00
52 T,M 4-Methyl-2-pentanone	50.000	58.156	-16.3	115	0.00
53 T,M cis-1,3-Dichloropropene	10.000	10.728	-7.3	107	0.00
54 S Toluene-d8	10.000	10.443	-4.4	102	0.00
55 C,T,M Toluene	10.000	9.920	0.8	104	0.00
56 T,M Ethyl methacrylate	10.000	11.430	-14.3	111	0.00
57 T,M trans-1,3-Dichloropropene	10.000	11.016	-10.2	109	0.00
58 T,M 1,1,2-Trichloroethane	10.000	10.651	-6.5	107	0.00
59 T,M 2-Hexanone	50.000	59.866	-19.7	118	0.00
60 T,M 1,3-Dichloropropane	10.000	10.805	-8.0	108	0.00
61 T,M Tetrachloroethene	10.000	9.697	3.0	102	0.00
62 T,M Dibromochloromethane	10.000	10.738	-7.4	105	0.00
63 T,M 2-Ethyl-1-butanol	-1.000	0.000	0.0	0	0.00
64 T,M 1,2-Dibromoethane	10.000	10.856	-8.6	108	0.00
65 T,M 1-Chlorohexane	10.000	10.599	-6.0	106	0.00
66 P, T,M Chlorobenzene	10.000	10.188	-1.9	108	0.00
67 T,M 1,1,1,2-Tetrachloroethane	10.000	10.478	-4.8	105	0.00
68 C,T,M Ethylbenzene	10.000	10.419	-4.2	107	0.00
69 T,M m-Xylene & p-Xylene	20.000	19.820	0.9	105	0.00
70 T,M o-Xylene	10.000	10.438	-4.4	105	0.00
71 T,M Styrene	10.000	10.595	-6.0	105	0.00
72 I 1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	103	0.00
73 T,M Isopropylbenzene	10.000	10.237	-2.4	104	0.00
74 P,T,M Bromoform	10.000	9.758	2.4	104	0.00
75 P,T,M 1,1,2,2-Tetrachloroethane	10.000	11.257	-12.6	113	0.00
76 S 4-Bromofluorobenzene	10.000	10.674	-6.7	105	0.00
77 T,M 1,2,3-Trichloropropane	10.000	11.111	-11.1	110	0.00
78 T,M trans-1,4-Dichloro-2-butene	10.000	11.075	-10.7	108	0.00
79 T,M n-Propylbenzene	10.000	10.542	-5.4	107	0.00
80 T,M Bromobenzene	10.000	10.089	-0.9	104	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H30\RHW299.D  
 Acq On : 30 Aug 2012 12:26 pm  
 Sample : CVO06H1513  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81 T,M 1,3,5-Trimethylbenzene	10.000	10.258	-2.6	107	0.00
82 T,M 2-Chlorotoluene	10.000	10.457	-4.6	108	0.00
83 T,M 4-Chlorotoluene	10.000	10.068	-0.7	106	0.00
84 T,M tert-Butylbenzene	10.000	9.921	0.8	104	0.00
85 T,M 1,2,4-Trimethylbenzene	10.000	10.342	-3.4	107	0.00
86 T,M sec-Butylbenzene	10.000	10.464	-4.6	109	0.00
87 T,M p-Isopropyltoluene	10.000	10.430	-4.3	108	0.00
88 T,M 1,3-Dichlorobenzene	10.000	10.226	-2.3	106	0.00
89 T,M 1,4-Dichlorobenzene	10.000	10.418	-4.2	108	0.00
90 T,M Benzyl chloride	-1.000	0.000	0.0	0	0.00
91 T,M n-Butylbenzene	10.000	10.527	-5.3	111	0.00
92 T,M 1,2-Dichlorobenzene	10.000	9.991	0.1	105	0.00
93 T,M 1,2-Dibromo-3-chloropropane	10.000	9.450	5.5	97	0.00
94 T,M 1,2,4-Trichlorobenzene	10.000	9.030	9.7	97	0.00
95 T,M Hexachlorobutadiene	10.000	9.322	6.8	97	0.00
96 T,M Naphthalene	10.000	9.599	4.0	99	0.00
97 T,M 1,2,3-Trichlorobenzene	10.000	8.690	13.1	94	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H30\RHW299.D  
 Acq On : 30 Aug 2012 12:26 pm  
 Sample : CVO06H1513  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P

Vial: 2  
 Operator: WL  
 Inst : T006  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I 1,4-DIFLUOROBENZENE	1.000	1.000	0.0	107	0.00
2 T,M Dichlorodifluoromethane	0.258	0.237	8.1	98	0.00
3 P,T,M Chloromethane	0.310	0.304✓	1.9	101	0.00
4 C,T,M Vinyl chloride	0.233	0.229	1.7	104	0.00
5 T,M Bromomethane	0.187	0.194	-3.7	103	0.00
6 T,M Chloroethane	0.159	0.160	-0.6	98	0.02
7 T,M Dichlorofluoromethane	0.549	0.587	-6.9	109	0.00
8 T,M Trichlorofluoromethane	0.355	0.368	-3.7	105	0.00
9 T,M Acrolein	0.012	0.010	16.7	83	0.00
10 T,M 1,1,2-Trichloro-1,2,2-trifl	0.168	0.169	-0.6	107	0.02
11 T,M Acetone	0.034	0.037	-8.8	116	0.00
12 C,T,M 1,1-Dichloroethene	0.525	0.543	-3.4	108	0.00
13 T,M tert-Butyl alcohol	0.010	0.012	-20.0	115	0.02
14 T,M Acetonitrile	0.000	0.000	0.0	118	0.00
15 T,M Methyl acetate	0.111	0.000	100.0#	0#	-4.54#
16 T,M Iodomethane	0.451	0.450	0.2	106	0.02
17 T,M Methylene chloride	0.433	0.408	5.8	111	0.00
18 T,M Carbon disulfide	1.073	0.985	8.2	93	0.00
19 T,M Acrylonitrile	0.043	0.047	-9.3	115	0.00
20 T,M tert-Butyl methyl ether (MT)	0.470	0.519	-10.4	112	0.00
21 T,M trans-1,2-Dichloroethene	0.556	0.566	-1.8	108	0.00
22 T,M Isopropyl ether (DIPE)	1.082	1.157	-6.9	110	0.00
23 T,M Vinyl acetate	0.376	0.427	-13.6	115	0.00
24 P,T,M 1,1-Dichloroethane	0.637	0.652✓	-2.4	107	0.02
25 T,M 2-Butanol	0.009	0.000	100.0#	0#	-6.37#
26 T,M tert-Butyl ethyl ether (ETB)	0.791	0.852	-7.7	112	0.00
27 T,M 2-Butanone	0.063	0.067	-6.3	115	0.00
28 T,M 2,2-Dichloropropane	0.319	0.345	-8.2	111	0.02
29 T,M cis-1,2-Dichloroethene	0.365	0.364	0.3	107	0.00
30 C,T,M Chloroform	0.578	0.583	-0.9	108	0.00
31 T,M tert-Amyl alcohol	0.000	0.000	0.0	105	0.00
32 T,M Bromochloromethane	0.255	0.270	-5.9	110	0.00
33 T,M Tetrahydrofuran	0.047	0.042	10.6	110	0.00
34 S Dibromofluoromethane	0.302	0.325	-7.6	105	0.00
35 T,M 1,1,1-Trichloroethane	0.471	0.483	-2.5	106	0.00
36 T,M Cyclohexane	0.779	0.000	100.0#	0#	-7.97#
37 T,M tert-Amyl methyl ether (TAM)	0.123	0.136	-10.6	110	0.00
38 S 1,2-Dichloroethane-d4	0.252	0.272	-7.9	104	0.00
39 I CHLOROBENZENE-D5	1.000	1.000	0.0	103	0.00
40 T,M 2,2,4-Trimethylpentane	1.630	0.000	100.0#	0#	-8.09#

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H30\RHW299.D Vial: 2  
 Acq On : 30 Aug 2012 12:26 pm Operator: WL  
 Sample : CVO06H1513 Inst : TO06  
 Misc : 10ppb 8260/50ppb KET-AA-TBA Multiplr: 1.00  
 MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41 T,M 1,1-Dichloropropene	0.194	0.198	-2.1	107	0.02
42 T,M Carbon tetrachloride	0.506	0.525	-3.8	106	0.00
43 T,M 1,2-Dichloroethane	0.367	0.390	-6.3	110	0.00
44 T,M Benzene	1.512	1.534	-1.5	108	0.00
45 T,M Trichloroethene	0.432	0.424	1.9	102	0.00
46 T,M Methylcyclohexane	0.697	0.000	100.0#	0#	-9.76#
47 C,T,M 1,2-Dichloropropane	0.384	0.398	-3.6	107	0.00
48 T,M 1,4-Dioxane	0.001	0.001	0.0	108	0.00
49 T,M Bromodichloromethane	0.466	0.504	-8.2	109	0.00
50 T,M Dibromomethane	0.166	0.176	-6.0	108	0.00
51 T,M 2-Chloroethyl vinyl ether	0.124	0.108	12.9	85	0.00
52 T,M 4-Methyl-2-pentanone	0.198	0.230	-16.2	115	0.00
53 T,M cis-1,3-Dichloropropene	0.539	0.578	-7.2	107	0.00
54 S Toluene-d8	1.276	1.333	-4.5	102	0.00
55 C,T,M Toluene	1.566	1.554	0.8	104	0.00
56 T,M Ethyl methacrylate	0.257	0.294	-14.4	111	0.00
57 T,M trans-1,3-Dichloropropene	0.395	0.435	-10.1	109	0.00
58 T,M 1,1,2-Trichloroethane	0.197	0.210	-6.6	107	0.00
59 T,M 2-Hexanone	0.118	0.141	-19.5	118	0.00
60 T,M 1,3-Dichloropropane	0.409	0.442	-8.1	108	0.00
61 T,M Tetrachloroethene	0.340	0.330	2.9	102	0.00
62 T,M Dibromochloromethane	0.265	0.285	-7.5	105	0.00
63 T,M 2-Ethyl-1-butanol	0.000	0.000	0.0	0#	0.00
64 T,M 1,2-Dibromoethane	0.205	0.222	-8.3	108	0.00
65 T,M 1-Chlorohexane	0.660	0.699	-5.9	106	0.00
66 P, T,M Chlorobenzene	0.939	0.957✓	-1.9	108	0.00
67 T,M 1,1,1,2-Tetrachloroethane	0.297	0.312	-5.1	105	0.00
68 C,T,M Ethylbenzene	1.759	1.832	-4.2	107	0.00
69 T,M m-Xylene & p-Xylene	1.351	1.339	0.9	105	0.00
70 T,M o-Xylene	1.352	1.411	-4.4	105	0.00
71 T,M Styrene	0.935	0.991	-6.0	105	0.00
72 I 1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	103	0.00
73 T,M Isopropylbenzene	4.685	4.796	-2.4	104	0.00
74 P,T,M Bromoform	0.348	0.377✓	-8.3	104	0.00
75 P,T,M 1,1,2,2-Tetrachloroethane	0.625	0.704✓	-12.6	113	0.00
76 S 4-Bromofluorobenzene	1.245	1.329	-6.7	105	0.00
77 T,M 1,2,3-Trichloropropane	0.168	0.186	-10.7	110	0.00
78 T,M trans-1,4-Dichloro-2-butene	0.188	0.208	-10.6	108	0.00
79 T,M n-Propylbenzene	6.255	6.594	-5.4	107	0.00
80 T,M Bromobenzene	0.975	0.984	-0.9	104	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H30\RH299.D Vial: 2  
 Acq On : 30 Aug 2012 12:26 pm Operator: WL  
 Sample : CVO06H1513 Inst : T006  
 Misc : 10ppb 8260/50ppb KET-AA-TBA Multiplr: 1.00  
 MS Integration Params: RTE.P

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Multiple Level Calibration

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

Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
81 T,M 1,3,5-Trimethylbenzene	3.761	3.858	-2.6	107	0.00
82 T,M 2-Chlorotoluene	3.900	4.079	-4.6	108	0.00
83 T,M 4-Chlorotoluene	3.163	3.185	-0.7	106	0.00
84 T,M tert-Butylbenzene	0.863	0.856	0.8	104	0.00
85 T,M 1,2,4-Trimethylbenzene	3.614	3.738	-3.4	107	0.00
86 T,M sec-Butylbenzene	5.188	5.429	-4.6	109	0.00
87 T,M p-Isopropyltoluene	3.969	4.140	-4.3	108	0.00
88 T,M 1,3-Dichlorobenzene	1.929	1.972	-2.2	106	0.00
89 T,M 1,4-Dichlorobenzene	1.839	1.916	-4.2	108	0.00
90 T,M Benzyl chloride	0.000	0.000	0.0	0#	0.00
91 T,M n-Butylbenzene	4.032	4.244	-5.3	111	0.00
92 T,M 1,2-Dichlorobenzene	1.479	1.477	0.1	105	0.00
93 T,M 1,2-Dibromo-3-chloropropane	0.072	0.068	5.6	97	0.00
94 T,M 1,2,4-Trichlorobenzene	0.927	0.838	9.6	97	0.00
95 T,M Hexachlorobutadiene	0.655	0.611	6.7	97	0.00
96 T,M Naphthalene	1.125	1.080	4.0	99	0.00
97 T,M 1,2,3-Trichlorobenzene	0.694	0.603	13.1	94	0.00

Data File : D:\HPCHEM\1\DATA\12H30\RHW299.D  
 Acq On : 30 Aug 2012 12:26 pm  
 Sample : CVO06H1513  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 30 15:10 2012

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	9.15	114	1764668✓	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	14.07	117	1476950✓	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	18.34	152	503900✓	10.00	ug/l	0.00

#### System Monitoring Compounds

34) Dibromofluoromethane	7.67	111	573978	10.77	ug/l	0.00
Spiked Amount	10.000		Recovery	=	107.70%✓	
38) 1,2-Dichloroethane-d4	8.50	65	480106	10.79	ug/l	0.00
Spiked Amount	10.000		Recovery	=	107.90%✓	
54) Toluene-d8	11.62	98	1968038	10.44	ug/l	0.00
Spiked Amount	10.000		Recovery	=	104.40%✓	
76) 4-Bromofluorobenzene	16.05	95	669437	10.67	ug/l	0.00
Spiked Amount	10.000		Recovery	=	106.70%✓	

#### Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.90	85	417618	9.18	ug/l	100
3) Chloromethane	2.15	50	536071	9.80	ug/l	100
4) Vinyl chloride	2.30	62	404501	9.85	ug/l	100
5) Bromomethane	2.82	94	343148	10.43	ug/l	100
6) Chloroethane	2.94	64	282644	10.06	ug/l	98
7) Dichlorofluoromethane	2.97	67	1035080	10.68	ug/l	100
8) Trichlorofluoromethane	3.25	101	648973	10.35	ug/l	100
9) Acrolein	3.77	56	86220	39.77	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	3.85	151	298758	10.07	ug/l	100
11) Acetone	3.86	43	326927	54.39	ug/l	100
12) 1,1-Dichloroethene	4.07	61	958188	10.34	ug/l	99
13) tert-Butyl alcohol	4.17	59	105187	61.67	ug/l	90
16) Iodomethane	4.54	142	794146	9.99	ug/l	99
17) Methylene chloride	4.77	49	719905	11.34	ug/l	97
18) Carbon disulfide	4.80	76	1738670	9.18	ug/l	100
19) Acrylonitrile	4.98	53	415263	54.99	ug/l	98
20) tert-Butyl methyl ether (M	5.02	73	915478	11.03	ug/l	99
21) trans-1,2-Dichloroethene	5.24	61	998136	10.16	ug/l	100
22) Isopropyl ether (DIPE)	5.81	45	2042450	10.70	ug/l	99
23) Vinyl acetate	6.00	43	753643	11.36	ug/l	99
24) 1,1-Dichloroethane	5.99	63	1151263	10.25	ug/l	100
26) tert-Butyl ethyl ether (ET	6.52	59	1503193	10.77	ug/l	99
27) 2-Butanone	6.73	43	588905	52.79	ug/l	99
28) 2,2-Dichloropropane	6.95	77	609617	10.83	ug/l	100
29) cis-1,2-Dichloroethene	7.03	96	641831	9.95	ug/l	99
30) Chloroform	7.30	83	1028218	10.07	ug/l	99
32) Bromochloromethane	7.56	49	477070	10.62	ug/l	96

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

Data File : D:\HPCHEM\1\DATA\12H30\RHW299.D  
 Acq On : 30 Aug 2012 12:26 pm  
 Sample : CVO06H1513  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 30 15:10 2012

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) Tetrahydrofuran	7.62	42	74795	10.37	ug/l	98
35) 1,1,1-Trichloroethane	7.96	97	852654	10.27	ug/l	91
37) tert-Amyl methyl ether (TA	8.44	87	240303	11.05	ug/l	98
41) 1,1-Dichloropropene	8.23	110	292376	10.18	ug/l	99
42) Carbon tetrachloride	8.38	119	775025	10.37	ug/l	100
43) 1,2-Dichloroethane	8.65	62	576346	10.63	ug/l	99
44) Benzene	8.66	78	2264936	10.14	ug/l	100
45) Trichloroethene	9.67	130	626307	9.82	ug/l	98
47) 1,2-Dichloropropane	9.97	63	587997	10.38	ug/l	98
48) 1,4-Dioxane	10.39	88	37546	213.92	ug/l	100
49) Bromodichloromethane	10.34	83	744946	10.83	ug/l	99
50) Dibromomethane	10.43	93	259355	10.55	ug/l	97
51) 2-Chloroethyl vinyl ether	10.88	63	159403	8.71	ug/l	99
52) 4-Methyl-2-pentanone	10.91	43	1698281	58.16	ug/l	100
53) cis-1,3-Dichloropropene	11.24	75	853466	10.73	ug/l	100
55) Toluene	11.76	91	2294587	9.92	ug/l	100
56) Ethyl methacrylate	12.05	69	433585	11.43	ug/l	99
57) trans-1,3-Dichloropropene	12.05	75	641945	11.02	ug/l	98
58) 1,1,2-Trichloroethane	12.31	97	309476	10.65	ug/l	99
59) 2-Hexanone	12.32	43	1040512	59.87	ug/l	99
60) 1,3-Dichloropropane	12.72	76	653457	10.81	ug/l	99
61) Tetrachloroethene	12.81	164	487646	9.70	ug/l	98
62) Dibromochloromethane	13.14	129	420619	10.74	ug/l	99
64) 1,2-Dibromoethane	13.47	107	328318	10.86	ug/l	99
65) 1-Chlorohexane	13.72	91	1033100	10.60	ug/l	99
66) Chlorobenzene	14.13	112	1413080	10.19	ug/l	100
67) 1,1,1,2-Tetrachloroethane	14.21	131	460261	10.48	ug/l	99
68) Ethylbenzene	14.22	91	2706499	10.42	ug/l	100
69) m-Xylene & p-Xylene	14.34	91	3953913	19.82	ug/l	99
70) o-Xylene	15.06	91	2083799	10.44	ug/l	99
71) Styrene	15.12	104	1462938	10.59	ug/l	100
73) Isopropylbenzene	15.64	105	2416600	10.24	ug/l	100
74) Bromoform	15.68	173	190174	9.76	ug/l	99
75) 1,1,2,2-Tetrachloroethane	15.93	83	354637	11.26	ug/l	100
77) 1,2,3-Trichloropropane	16.17	110	93830	11.11	ug/l	96
78) trans-1,4-Dichloro-2-buten	16.28	53	104972	11.07	ug/l	99
79) n-Propylbenzene	16.29	91	3322752	10.54	ug/l	100
80) Bromobenzene	16.38	156	495878	10.09	ug/l	96
81) 1,3,5-Trimethylbenzene	16.56	105	1943904	10.26	ug/l	100
82) 2-Chlorotoluene	16.59	91	2055177	10.46	ug/l	99
83) 4-Chlorotoluene	16.66	91	1604786	10.07	ug/l	98

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

RHW299.D VO06H15.M Thu Aug 30 15:11:24 2012

Page 2

2116

Data File : D:\HPCHEM\1\DATA\12H30\RH299.D  
 Acq On : 30 Aug 2012 12:26 pm  
 Sample : CVO06H1513  
 Misc : 10ppb 8260/50ppb KET-AA-TBA  
 MS Integration Params: RTE.P  
 Quant Time: Aug 30 15:10 2012

Vial: 2  
 Operator: WL  
 Inst : TO06  
 Multiplr: 1.00

Quant Results File: VO06H15.RES

Quant Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
 Title : METHOD 8260  
 Last Update : Mon Aug 20 15:50:24 2012  
 Response via : Initial Calibration  
 DataAcq Meth : VO06H15

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) tert-Butylbenzene	17.12	134	431521	9.92	ug/l	98
85) 1,2,4-Trimethylbenzene	17.18	105	1883473	10.34	ug/l	99
86) sec-Butylbenzene	17.43	105	2735758	10.46	ug/l	99
87) p-Isopropyltoluene	17.61	119	2086016	10.43	ug/l	99
88) 1,3-Dichlorobenzene	17.76	146	993825	10.23	ug/l	99
89) 1,4-Dichlorobenzene	17.90	146	965660	10.42	ug/l	99
91) n-Butylbenzene	18.15	91	2138604	10.53	ug/l	100
92) 1,2-Dichlorobenzene	18.37	146	744392	9.99	ug/l	99
93) 1,2-Dibromo-3-chloropropan	19.28	157	34516	9.45	ug/l	99
94) 1,2,4-Trichlorobenzene	20.27	180	422018	9.03	ug/l	99
95) Hexachlorobutadiene	20.42	225	307842	9.32	ug/l	99
96) Naphthalene	20.60	128	544378	9.60	ug/l	100
97) 1,2,3-Trichlorobenzene	20.88	180	303862	8.69	ug/l	99

(#) = qualifier out of range (m) = manual integration  
 RH299.D VO06H15.M Thu Aug 30 15:11:24 2012

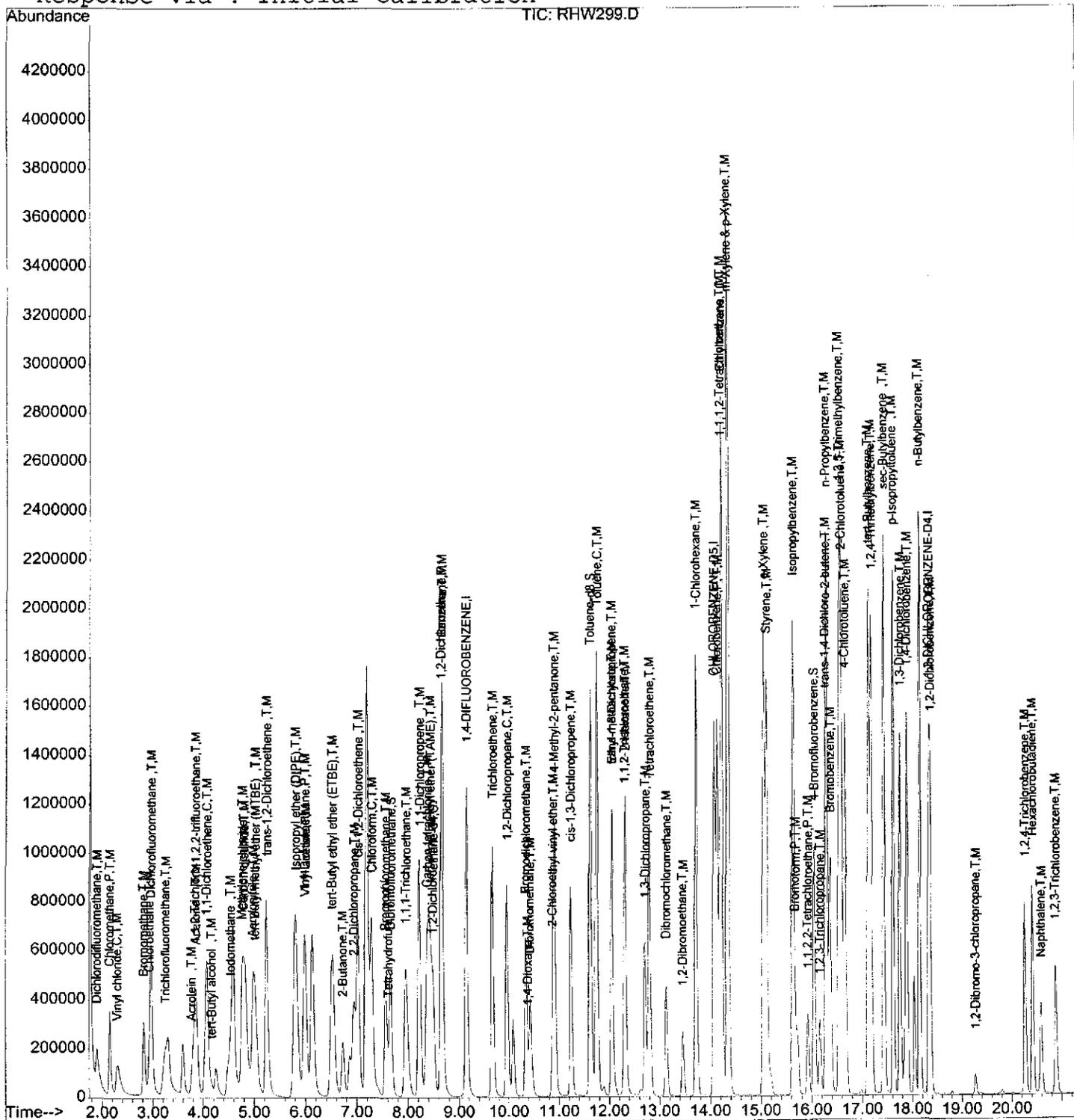
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H30\RHW299.D  
Acq On : 30 Aug 2012 12:26 pm  
Sample : CVO06H1513  
Misc : 10ppb 8260/50ppb KET-AA-TBA  
MS Integration Params: RTE.P  
Quant Time: Aug 30 15:10 2012

Vial: 2  
Operator: WL  
Inst : TO06  
Multiplr: 1.00

Quant Results File: VO06H15.RES

Method : D:\HPCHEM\1\METHODS\VO06H15.M (RTE Integrator)  
Title : METHOD 8260  
Last Update : Mon Aug 20 15:50:24 2012  
Response via : Initial Calibration



# **ANALYTICAL LOGS**



# ANALYSIS LOG FOR VOLATILES

SOP  EMAX-8260 Rev.No. 8  EMAX-524.2 Rev.No. 7  EMAX-624 Rev.No. 4  EMAX-8260SIM Rev.No. 1  EMAX-TCPSIM Rev.No. 2  EMAX-M8260SIM Rev.No. 0

Start Date: 8/15/12  5-mL Purge  10-mL Purge  25-mL Purge

Book # A06 -050

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix			Notes
					pH <2	W	S	
01	RHW 001	Rinse		NA	NA	NA		
02	002	BFB06H101	1 ML				CS1/60015/200/224/MP/4-Add RSH/AT/BA H1000 0.3 (ppb)	
03	003	V006H151	1 ML				0.3	6
04	004	2	1 ML				1	10
05	005	3	1 ML				2	20
06	006	4	1 ML				5	40
07	007	5	1 ML				10	100
08	008	6	1 ML				20	200
09	009	7	1 ML				30	400
10	010	8	1 ML				50	800
11	011	9	1 ML				100	1600
12	012	10	1 ML				250	2000
13	013	IS/SS						
14	014	V006H15B						
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

BATCH V006H156

DATE	V006H12	8/15/12
ICAL ID	V006H15	
INSTRUMENT No.	06	
INITIAL CALIBRATION REFERENCE		
NAME	ID	Amount (µg/L)
DCC CS-L	SVI-20-8-2	250 *
DCC GAS-XS	-7-1	250
DCC KAT-AX	-9-2	250
DCC 82-0	-9-3	50/250
IS/224-TMP	SVI-19-7-2	250
DCC 4-Add	-9-4-2	250
BFB	SVI-20-8-2	50 1 ML
IS/SURR-1515	-7-1	250 *
ICV/LCS CS2	-1-2	250
ICV/LCS GAS-XS	-4-1	250
ICV/LCS KAT-AX	SVI-20-5-3	250
ICV/LCS 81-0	SVI-19-7-3	50/250
ICV/LCS 224-TMP	-8-1	250
ICV/LCS 3-Add	SVI-19-5-2	250
2-bottle	SVI-12-36-15	1000 0.25

Comments: \* Varied amount

Analyzed By: WL  
 Date Disposed: 8/16/12  
 Disposed By: WL



# ANALYSIS LOG FOR VOLATILES

SOP  EMAX-8260 Rev.No. 8  EMAX-524.2 Rev.No. 7  EMAX-624 Rev.No. 4  EMAX-8260SIM Rev.No. 1  EMAX-TCP5IM Rev.No. 2  EMAX-M8260SIM Rev.No. 0   
 Start Date: 8/16/12  5-ml Purge  10-ml Purge  25-ml Purge Book # A06 -050

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix			Notes	Instrument No.	06
					pH	Cl	S			
01	RHW015	BFB06H02	1 mL		<2	<5ppm	9:31 AM			
02	↓ 016	1V006H1501	11/15/11 @ 5 μL				10:02 AM			
03	↓ 017	Rinse								
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

BATCH 1V006H1501

INITIAL CALIBRATION REFERENCE		Instrument No.	06
DATE	8/15/12		
ICAL ID	V006H15		
STANDARDS			
NAME	ID	Amount (μL)	Conc. (mg/L)
DCC			
BFB	SVI-19-68-2	1	50
IS/SURR.	SVI-20-6-1	1	250
ICV/LCS	↓ -1-2	1	250
ICV/LCS	↓ -4-1	1	250
ICV/LCS	SVI-20-5-3	5	150
ICV/LCS	SVI-19-78-3	5	50/150
ICV/LCS	↓ -80-1	1	250
ICV/LCS	-55-2	1	250
ICV/LCS	SVI-12-36-15	0.35	1000
DATA FILE FOLDER	12H16		
Electronic Data Archival			
Location		Date	
HPCHEM_V0A/T006			

Comments:

Analyzed By: W-L  
 Date Disposed: 8/17/12  
 Disposed By: W-L



# ANALYSIS LOG FOR VOLATILES

SOP  EMAX-8260 Rev.No. 8  EMAX-524.2 Rev.No. 7  EMAX-624 Rev.No. 4  EMAX-8260SIM Rev.No. 1  EMAX-TCP5IM Rev.No. 2  EMAX-M8260SIM Rev.No. 0

Start Date: 8/30/12  5-ml Purge  10-ml Purge  25-ml Purge

Book # A06 -050

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix			Notes
					pH <2	Cl	S	
01	RHW 298	BFB06H15	0.5 mL					11:56 AM
02	299	CV006H1513	1/15/5 mL					
03	300	V006H15L						
04	301	J C						
05	302	Rinse						
06	303	V006H15B	25 mL					
07	304	12H184-03	25 mL	1.0	✓	✓		
08	305	↓ -03M			✓	✓		
09	306	↓ -03S			✓	✓		
10	307	Rinse						
11	308	12H184-08	25 mL	1.0	✓	✓		
12	309	12H194-05			✓	✓		
13	310	12H184-01			✓	✓		
14	311	↓ -02			✓	✓		
15	312	↓ -04			✓	✓		
16	313	↓ -05			✓	✓		
17	314	↓ -06			✓	✓		
18	315	↓ -07			✓	✓		
19	316	Rinse						
20	317	12H194-01	25 mL	1.0	✓	✓		
21	318	↓ -02			✓	✓		
22	319	↓ -03			✓	✓		
23	320	↓ -04			✓	✓		11:10 PM
24	↓ 321-327	Rinse						
25								
26								
27								
28								
29								
30								

BATCH CV006H1513

DATE		8/15/12		Instrument No.		06	
ICAL ID		V006H15		INITIAL CALIBRATION REFERENCE			
STANDARDS							
NAME	ID	Amount (µL)	Conc. (mg/L)				
DCC	SV1-20-2-2	1					
DCC	↓ -7-1	1					
DCC	↓ -9-2	5					
DCC	↓ -9-3	5					
BFB	SV1-19-68-2	0.5	50				
IS/SURR.	SV1-20-6-1	1	250				
ICV/LCS	↓ -1-2	1					
ICV/LCS	↓ -4-1	1					
ICV/LCS	↓ -5-3	5					
ICV/LCS	SV1-17-78-3	5					
DATA FILE FOLDER		12H30		Electronic Data Archival			
HPCHEM_VOA/TO06		Location		Date			

Comments:

Analyzed By: WJL  
 Date Disposed: 8/31/12  
 Disposed By: WJL

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RHW298.D	1.	BFB06H15	T/CHK	30 Aug 2012 11:56
2	2	RHW299.D	1.	CVO06H1513	10ppb 8260/50ppb KET-AA-TBA	30 Aug 2012 12:26
3	3	RHW300.D	1.	VO06H15L	10ppb 8260/50ppb KET-AA-TBA	30 Aug 2012 13:05
4	4	RHW301.D	1.	VO06H15C	10ppb 8260/50ppb KET-AA-TBA	30 Aug 2012 13:35
5	5	RHW302.D	1.	RINSE	BLANK	30 Aug 2012 14:05
6	6	RHW303.D	1.	VO06H15B 25mL	BLANK	30 Aug 2012 14:35
7	7	RHW304.D	1.	12H184-03 25mL	DF=1.0	30 Aug 2012 15:05
8	8	RHW305.D	1.	12H184-03M 25mL	DF=1.0	30 Aug 2012 15:35
9	9	RHW306.D	1.	12H184-03S 25mL	DF=1.0	30 Aug 2012 16:05
10	10	RHW307.D	1.	RINSE	DF=1.0	30 Aug 2012 16:35
11	11	RHW308.D	1.	12H184-08 25mL	DF=1.0	30 Aug 2012 17:06
12	12	RHW309.D	1.	12H194-05 25mL	DF=1.0	30 Aug 2012 17:36
13	13	RHW310.D	1.	12H184-01 25mL	DF=1.0	30 Aug 2012 18:06
14	14	RHW311.D	1.	12H184-02 25mL	DF=1.0	30 Aug 2012 18:36
15	15	RHW312.D	1.	12H184-04 25mL	DF=1.0	30 Aug 2012 19:07
16	16	RHW313.D	1.	12H184-05 25mL	DF=1.0	30 Aug 2012 19:38
17	17	RHW314.D	1.	12H184-06 25mL	DF=1.0	30 Aug 2012 20:08
18	18	RHW315.D	1.	12H184-07 25mL	DF=1.0	30 Aug 2012 20:38
19	19	RHW316.D	1.	RINSE	DF=1.0	30 Aug 2012 21:08
20	20	RHW317.D	1.	12H194-01 25mL	DF=1.0	30 Aug 2012 21:39
21	21	RHW318.D	1.	12H194-02 25mL	DF=1.0	30 Aug 2012 22:09
22	22	RHW319.D	1.	12H194-03 25mL	DF=1.0	30 Aug 2012 22:39
23	23	RHW320.D	1.	12H194-04 25mL	DF=1.0	30 Aug 2012 23:10
24	24	RHW321.D	1.	RINSE	DF=1.0	30 Aug 2012 23:40
25	25	RHW322.D	1.	RINSE	DF=1.0	31 Aug 2012 00:10
26	26	RHW323.D	1.	RINSE	DF=1.0	31 Aug 2012 00:40
27	27	RHW324.D	1.	RINSE	DF=1.0	31 Aug 2012 01:10
28	28	RHW325.D	1.	RINSE	DF=1.0	31 Aug 2012 01:40
29	29	RHW326.D	1.	RINSE	DF=1.0	31 Aug 2012 02:12
30	30	RHW327.D	1.	RINSE	DF=1.0	31 Aug 2012 02:42

LABORATORY REPORT FOR

ECO & ASSOCIATES, INC.

B & B, MONTHLY CITY WELL SAMPLING

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

SDG#: 12H184

CASE NARRATIVE

Client : ECO & ASSOCIATES, INC.  
Project : B & B, MONTHLY CITY WELL SAMPLING  
SDG : 12H184

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

A total of seven (7) water samples were received on 08/27/12 for VOC SIM analysis, Method 5030B/8260B SIM in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.2. and B & B, MONTHLY CITY WELL SAMPLING QAPP.

Holding Time  
Samples were analyzed within the prescribed holding time.

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

Method Blank  
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample  
A set of LCS/LCD was analyzed with the samples in this SDG. Percent recoveries for V005H34L/C were all within QC limits.

Matrix QC Sample  
A set of MS/MSD was analyzed with the samples in this SDG. Percent recoveries for H184-03M/S were within project QC limits.

Surrogate  
Surrogate was added on QC and field samples. Surrogate recoveries were within project QC limits. Refer to sample result forms for details.

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

LAB CHRONICLE  
VOLATILE ORGANICS BY GC/MS SIM

SDG NO. : 12H184  
Instrument ID : T-005

Client : ECO & ASSOCIATES, INC.  
Project : B & B, MONTHLY CITY WELL SAMPLING

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis Date/Time	Extraction Date/Time	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
									WATER
MBLK1W	V005H34B	1	NA	08/31/1210:17	08/31/1210:17	RHQ731	RGQ296	V005H34	Method Blank
LCS1W	V005H34L	1	NA	08/31/1208:47	08/31/1208:47	RHQ728	RGQ296	V005H34	Lab Control Sample (LCS)
LCD1W	V005H34C	1	NA	08/31/1209:17	08/31/1209:17	RHQ729	RGQ296	V005H34	LCS Duplicate
08-27-12-CW-1	H184-01	1	NA	08/31/1210:47	08/31/1210:47	RHQ732	RGQ296	V005H34	Field Sample
08-27-12-CW-5	H184-02	1	NA	08/31/1211:26	08/31/1211:26	RHQ733	RGQ296	V005H34	Field Sample
08-27-12-CW-6	H184-03	1	NA	08/31/1211:57	08/31/1211:57	RHQ734	RGQ296	V005H34	Field Sample
08-27-12-CW-6MS	H184-03M	1	NA	08/31/1212:28	08/31/1212:28	RHQ735	RGQ296	V005H34	Matrix Spike Sample (MS)
08-27-12-CW-6MSD	H184-03S	1	NA	08/31/1212:57	08/31/1212:57	RHQ736	RGQ296	V005H34	MS Duplicate (MSD)
08-27-12-CW-8	H184-04	1	NA	08/31/1213:28	08/31/1213:28	RHQ737	RGQ296	V005H34	Field Sample
08-27-12-CW-9	H184-05	1	NA	08/31/1213:58	08/31/1213:58	RHQ738	RGQ296	V005H34	Field Sample
08-27-12-CW-10	H184-06	1	NA	08/31/1214:27	08/31/1214:27	RHQ739	RGQ296	V005H34	Field Sample
08-27-12-FDUP-1	H184-07	1	NA	08/31/1214:58	08/31/1214:58	RHQ740	RGQ296	V005H34	Field Sample

FN - Filename  
% Moist - Percent Moisture

# **SAMPLE RESULTS**

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

```

=====
Client       : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project      : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.    : 12H184                          Date Extracted: 08/31/12 10:47
Sample ID    : 08-27-12-CW-1                  Date Analyzed: 08/31/12 10:47
Lab Samp ID  : H184-01                        Dilution Factor: 1
Lab File ID  : RHQ732                         Matrix          : WATER
Ext Btch ID  : V005H34                       % Moisture     : NA
Calib. Ref.  : RGQ296                        Instrument ID   : T-005
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	0.055	0.0050	0.0025
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.050	0.020
1,2-DIBROMOETHANE	ND	0.050	0.020

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TOLUENE-D8	0.100	0.1000	100	80-120

METHOD 5D30B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project      : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.    : 12H184                          Date Extracted: 08/31/12 11:26
Sample ID:   08-27-12-CW-5                     Date Analyzed: 08/31/12 11:26
Lab Samp ID: H184-02                           Dilution Factor: 1
Lab File ID: RHQ733                            Matrix          : WATER
Ext Btch ID: V005H34                          % Moisture     : NA
Calib. Ref.: RGQ296                           Instrument ID  : T-005
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	0.11	0.0050	0.0025
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.050	0.020
1,2-DIBROMOETHANE	ND	0.050	0.020

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TOLUENE-D8	0.101	0.1000	101	80-120

Data File : D:\HPCHEM\1\DATA\12H31\RHQ733.D  
 Acq On : 31 Aug 2012 11:26 am  
 Sample : 12H184-02 25mL  
 Misc : DF=1.0

Vial: 8  
 Operator: SD  
 Inst : T005  
 Multiplr: 1.00

MS Integration Params: 524INT.P  
 Quant Time: Sep 4 7:29 2012

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.70	79	5450	50.00	ng/l	-0.02
System Monitoring Compounds						
3) Toluene-d8	5.91	98	108870	100.65	ng/l	-0.01
Spiked Amount	100.000		Recovery	=	100.65%	
Target Compounds						
6) 1,2,3-Trichloropropane	8.78	75	9097	106.18	ng/l	Qvalue 89

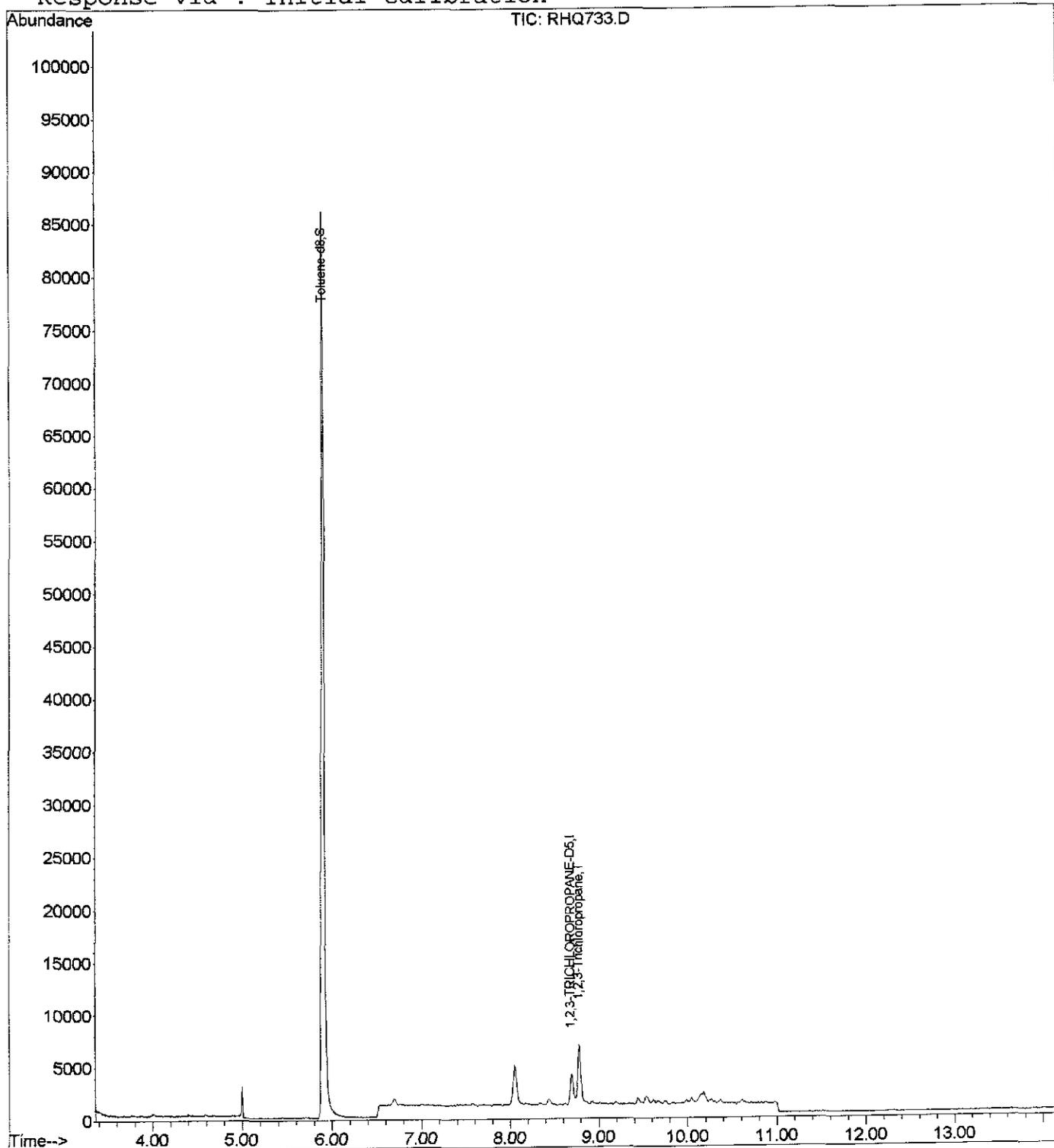
Quantitation Report

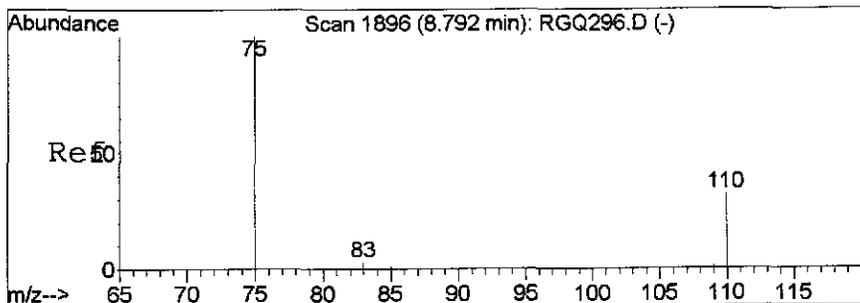
Data File : D:\HPCHEM\1\DATA\12H31\RHQ733.D  
Acq On : 31 Aug 2012 11:26 am  
Sample : 12H184-02 25mL  
Misc : DF=1.0  
MS Integration Params: 524INT.P  
Quant Time: Sep 4 7:29 2012

Vial: 8  
Operator: SD  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RE

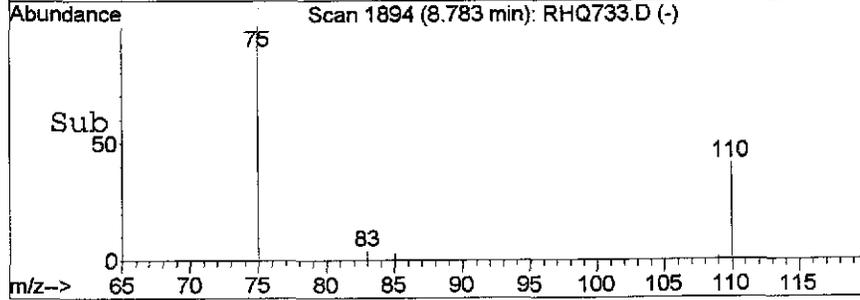
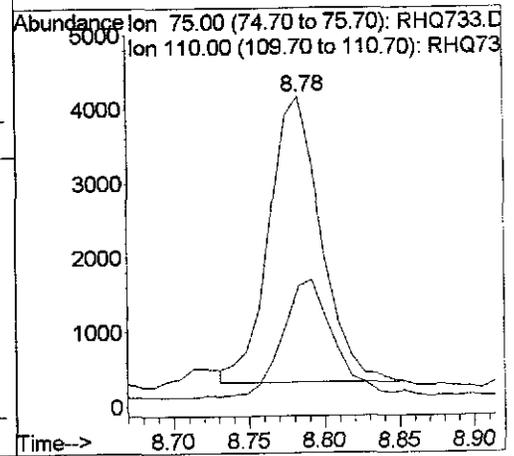
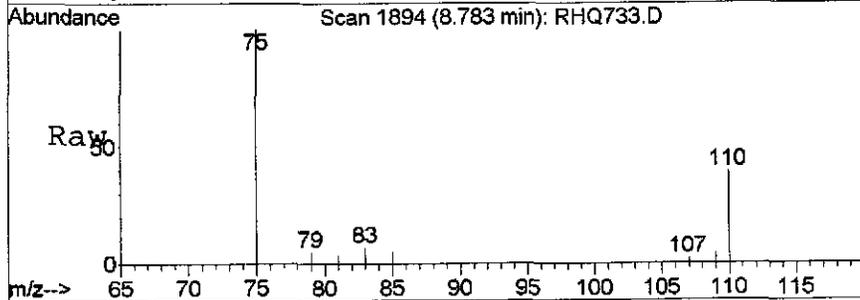
Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration





#6  
 1,2,3-Trichloropropane  
 Concen: 106.18 ng/l  
 RT: 8.78 min Scan# 1894  
 Delta R.T. -0.01 min  
 Lab File: RHQ733.D  
 Acq: 31 Aug 2012 11:26 am

Tgt Ion: 75 Resp: 9097  
 Ion Ratio Lower Upper  
 75 100  
 110 39.8 17.1 77.1



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

```

=====
Client       : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project      : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.    : 12H184                          Date Extracted: 08/31/12 11:57
Sample ID    : 08-27-12-CW-6                  Date Analyzed: 08/31/12 11:57
Lab Samp ID  : H184-03                        Dilution Factor: 1
Lab File ID  : RHQ734                         Matrix          : WATER
Ext Btch ID  : V005H34                       % Moisture      : NA
Calib. Ref.  : RGQ296                        Instrument ID   : T-005
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	0.037	0.0050	0.0025
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.050	0.020
1,2-DIBROMOETHANE	ND	0.050	0.020

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TOLUENE-D8	0.0994	0.1000	99.4	80-120

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

```

=====
Client       : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project      : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.    : 12H184                           Date Extracted: 08/31/12 13:28
Sample ID    : 08-27-12-CW-8                   Date Analyzed: 08/31/12 13:28
Lab Samp ID  : H184-04                          Dilution Factor: 1
Lab File ID  : RHQ737                          Matrix           : WATER
Ext Btch ID  : V005H34                         % Moisture      : NA
Calib. Ref.  : RGQ296                         Instrument ID    : T-005
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	0.012	0.0050	0.0025
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.050	0.020
1,2-DIBROMOETHANE	ND	0.050	0.020

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TOLUENE-D8	0.0937	0.1000	93.7	80-120

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

```

=====
Client       : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project      : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.    : 12H184                          Date Extracted: 08/31/12 13:58
Sample ID:   08-27-12-CW-9                     Date Analyzed: 08/31/12 13:58
Lab Samp ID: H184-05                           Dilution Factor: 1
Lab File ID: RHQ738                            Matrix          : WATER
Ext Btch ID: V005H34                          % Moisture     : NA
Calib. Ref.: RGQ296                           Instrument ID  : T-005
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	0.40	0.0050	0.0025
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.050	0.020
1,2-DIBROMOETHANE	ND	0.050	0.020

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TOLUENE-D8	0.0929	0.1000	92.9	80-120

METHOD 50308/82608 SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client      : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project     : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.   : 12H184                          Date Extracted: 08/31/12 14:27
Sample ID   : 08-27-12-CW-10                 Date Analyzed: 08/31/12 14:27
Lab Samp ID: H184-06                          Dilution Factor: 1
Lab File ID: RHQ739                           Matrix          : WATER
Ext Btch ID: V005H34                          % Moisture     : NA
Calib. Ref.: RGQ296                          Instrument ID   : T-005
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	ND	0.0050	0.0025
1,2-DIBROMO-3-CHLOROPROPANE	NO	0.050	0.020
1,2-DIBROMOETHANE	ND	0.050	0.020

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TOLUENE-D8	0.0950	0.1000	95.0	80-120

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

```

=====
Client      : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project     : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.   : 12H184                          Date Extracted: 08/31/12 14:58
Sample ID: 08-27-12-FDUP-1                    Date Analyzed: 08/31/12 14:58
Lab Samp ID: H184-07                          Dilution Factor: 1
Lab File ID: RHQ740                           Matrix          : WATER
Ext Btch ID: V005H34                          % Moisture     : NA
Calib. Ref.: RGQ296                          Instrument ID  : T-005
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	0.051	0.0050	0.0025
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.050	0.020
1,2-DIBROMOETHANE	ND	0.050	0.020

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TOLUENE-D8	0.102	0.1000	102	80-120

# **QC SUMMARIES**

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

```

=====
Client      : ECO & ASSOCIATES, INC.           Date Collected: NA
Project     : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/31/12
Batch No.   : 12H184                          Date Extracted: 08/31/12 10:17
Sample ID   : MBLK1W                          Date Analyzed: 08/31/12 10:17
Lab Samp ID: V005H34B                        Dilution Factor: 1
Lab File ID: RHQ731                          Matrix          : WATER
Ext Btch ID: V005H34                        % Moisture     : NA
Calib. Ref.: RGQ296                         Instrument ID   : T-005
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,3-TRICHLOROPROPANE	ND	0.0050	0.0025
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.050	0.020
1,2-DIBROMOETHANE	ND	0.050	0.020

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TOLUENE-D8	0.0985	0.1000	98.5	80-120

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: ECO & ASSOCIATES, INC.  
PROJECT: B & B, MONTHLY CITY WELL SAMPLING  
BATCH NO.: 12H184  
METHOD: METHOD 5030B/8260B SIM

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: V005H34B V005H34L V005H34C  
LAB FILE ID: RHQ731 RHQ728 RHQ729  
DATE EXTRACTED: 08/31/1210:17 08/31/1208:47 08/31/1209:17 DATE COLLECTED: NA  
DATE ANALYZED: 08/31/1210:17 08/31/1208:47 08/31/1209:17 DATE RECEIVED: 08/31/12  
PREP. BATCH: V005H34 V005H34 V005H34  
CALIB. REF: RGQ296 RGQ296 RGQ296

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,2,3-Trichloropropane	ND	0.100	0.0978	98	0.100	0.0955	96	2	75-125	30
1,2-Dibromo-3-chloropropane	ND	0.100	0.0731	73	0.100	0.0675	68	8	50-130	30
1,2-Dibromoethane	ND	0.100	0.0886	89	0.100	0.0906	91	2	80-120	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
Toluene-d8	0.100	0.0798	80	0.100	0.0816	82	80-120

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: ECO & ASSOCIATES, INC.  
PROJECT: B & B, MONTHLY CITY WELL SAMPLING  
BATCH NO.: 12H184  
METHOD: METHOD 5030B/8260B SIM

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: 08-27-12-CW-6  
LAB SAMP ID: H184-03 H184-03M H184-03S  
LAB FILE ID: RHQ734 RHQ735 RHQ736  
DATE EXTRACTED: 08/31/1211:57 08/31/1212:28 08/31/1212:57 DATE COLLECTED: 08/27/12  
DATE ANALYZED: 08/31/1211:57 08/31/1212:28 08/31/1212:57 DATE RECEIVED: 08/27/12  
PREP. BATCH: V005H34 V005H34 V005H34  
CALIB. REF: RGQ296 RGQ296 RGQ296

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,2,3-Trichloropropane	0.0373	0.100	0.136	98	0.100	0.143	106	5	75-125	30
1,2-Dibromo-3-chloropropane	ND	0.100	0.0598	60	0.100	0.0691	69	15	50-130	30
1,2-Dibromoethane	ND	0.100	0.0915	91	0.100	0.0981	98	7	80-120	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT ( % )
Toluene-d8	0.100	0.0976	98	0.100	0.0945	94	80-120

# QC DATA

Data File : D:\HPCHEM\1\DATA\12H31\RHQ731.D  
Acq On : 31 Aug 2012 10:17 am  
Sample : VO05H34B  
Misc : BLANK  
MS Integration Params: 524INT.P  
Quant Time: Aug 31 10:31 2012

Vial: 6  
Operator: SD  
Inst : T005  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration  
DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.70	79	5648	50.00	ng/l	-0.02
System Monitoring Compounds						
3) Toluene-d8	5.90	98	110467	98.55	ng/l	-0.02
Spiked Amount	100.000		Recovery	=	98.55%	
Target Compounds						Qvalue

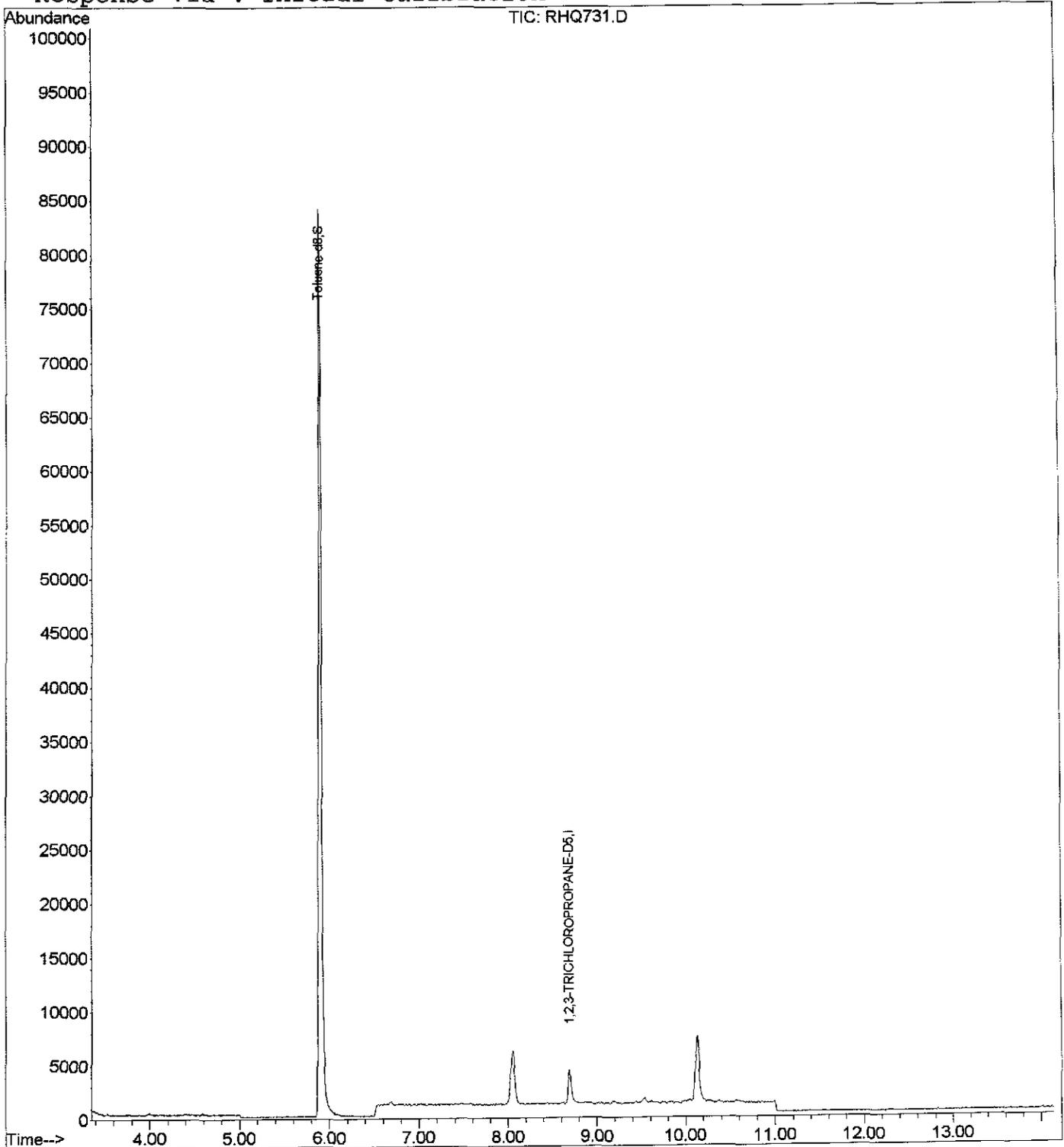
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H31\RHQ731.D  
Acq On : 31 Aug 2012 10:17 am  
Sample : VO05H34B  
Misc : BLANK  
MS Integration Params: 524INT.P  
Quant Time: Aug 31 10:31 2012

Vial: 6  
Operator: SD  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RE

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\12H31\RHQ728.D  
 Acq On : 31 Aug 2012 8:47 am  
 Sample : VO05H34L  
 Misc : 100ppt  
 MS Integration Params: 524INT.P  
 Quant Time: Aug 31 9:31 2012

Vial: 3  
 Operator: SD  
 Inst : TO05  
 Multiplr: 1.00

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.70	79	6147	50.00	ng/l	-0.02
System Monitoring Compounds						
3) Toluene-d8	5.90	98	97409	79.85	ng/l	-0.02
Spiked Amount	100.000		Recovery	=	79.85%	
Target Compounds						
2) 1,2-Dichloroethane	4.40	62	23566	91.19	ng/l	98
4) 1,2-Dibromoethane	7.01	107	16055	88.58	ng/l	95
5) 1,1,2,2-Tetrachloroethane	8.61	83	16776	94.56	ng/l	97
6) 1,2,3-Trichloropropane	8.78	75	9448	97.77	ng/l	97
7) 1,2-Dibromo-3-chloropropan	11.55	157	1779	73.06	ng/l	93

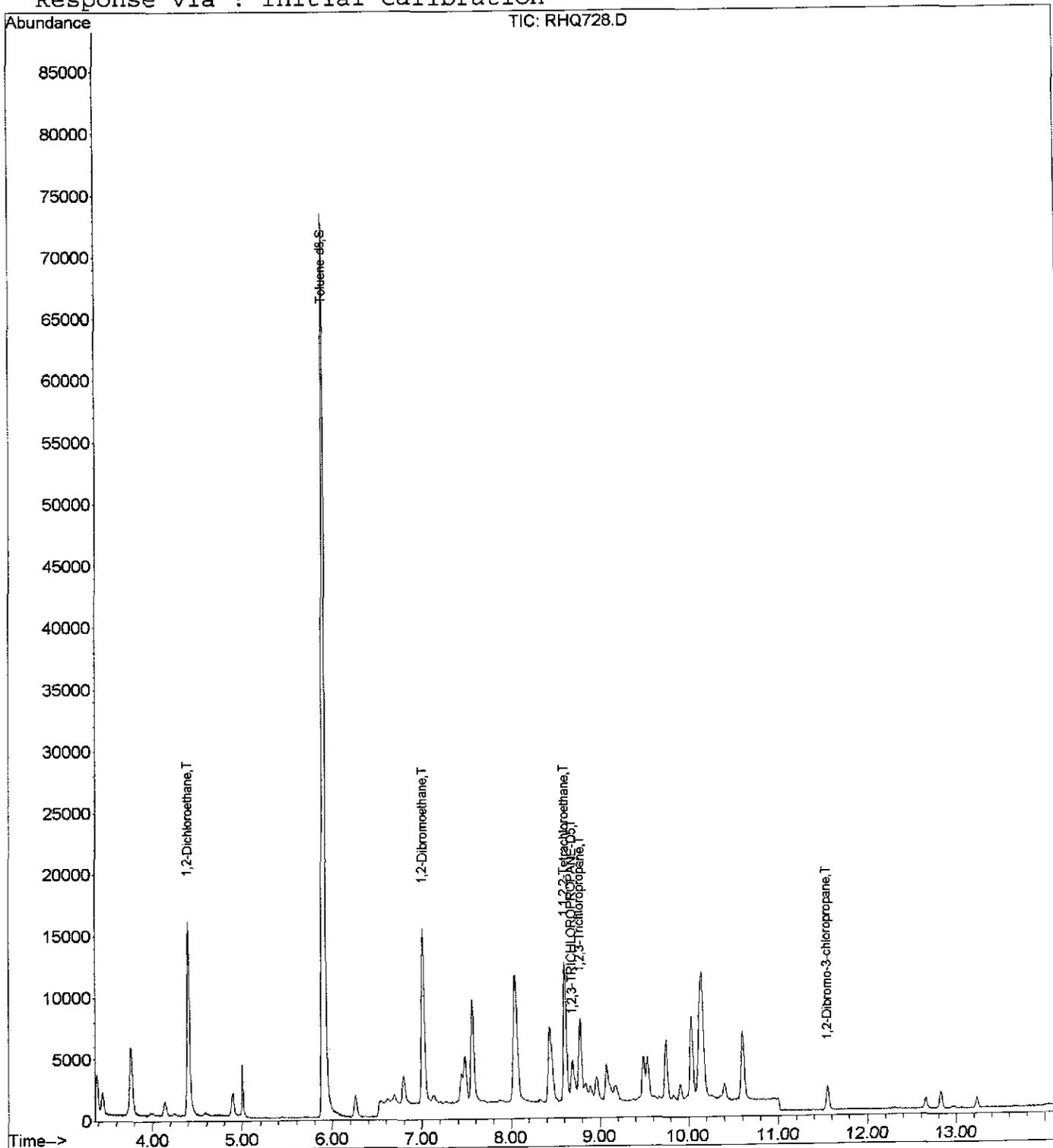
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H31\RHQ728.D  
Acq On : 31 Aug 2012 8:47 am  
Sample : VO05H34L  
Misc : 100ppt  
MS Integration Params: 524INT.P  
Quant Time: Aug 31 9:31 2012

Vial: 3  
Operator: SD  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RE

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\12H31\RHQ729.D  
 Acq On : 31 Aug 2012 9:17 am  
 Sample : VO05H34C  
 Misc : 100ppt

Vial: 4  
 Operator: SD  
 Inst : T005  
 Multiplr: 1.00

MS Integration Params: 524INT.P  
 Quant Time: Aug 31 9:31 2012

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.70	79	6022	50.00	ng/l	-0.02
System Monitoring Compounds						
3) Toluene-d8	5.90	98	97534	81.61	ng/l	-0.02
Spiked Amount	100.000		Recovery	=	81.61%	
Target Compounds						
2) 1,2-Dichloroethane	4.40	62	23760	93.85	ng/l	95
4) 1,2-Dibromoethane	7.01	107	16083	90.58	ng/l	97
5) 1,1,2,2-Tetrachloroethane	8.61	83	16664	95.88	ng/l	96
6) 1,2,3-Trichloropropane	8.77	75	9043	95.52	ng/l	100
7) 1,2-Dibromo-3-chloropropan	11.56	157	1611	67.53	ng/l	95

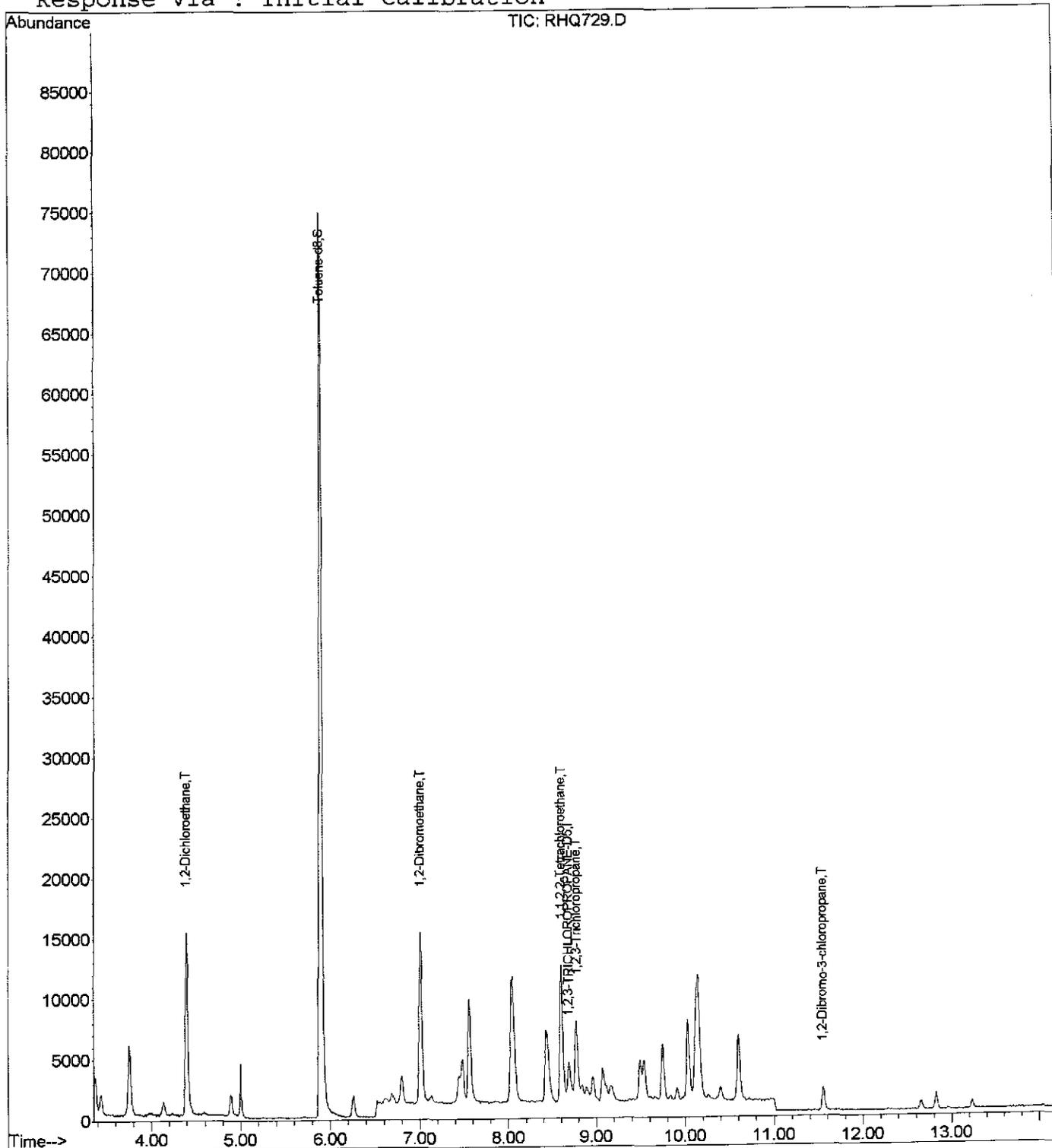
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H31\RHQ729.D  
Acq On : 31 Aug 2012 9:17 am  
Sample : VO05H34C  
Misc : 100ppt  
MS Integration Params: 524INT.P  
Quant Time: Aug 31 9:31 2012

Vial: 4  
Operator: SD  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RE

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\12H31\RHQ734.D  
Acq On : 31 Aug 2012 11:57 am  
Sample : 12H184-03 25mL  
Misc : DF=1.0

Vial: 9  
Operator: SD  
Inst : T005  
Multiplr: 1.00

MS Integration Params: 524INT.P  
Quant Time: Sep 4 7:29 2012

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration  
DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.70	79	5810	50.00	ng/l	-0.02
System Monitoring Compounds						
3) Toluene-d8	5.90	98	114629	99.41	ng/l	-0.02
Spiked Amount	100.000		Recovery	=	99.41%	
Target Compounds						
6) 1,2,3-Trichloropropane	8.78	75	3408	37.31	ng/l	Qvalue 90

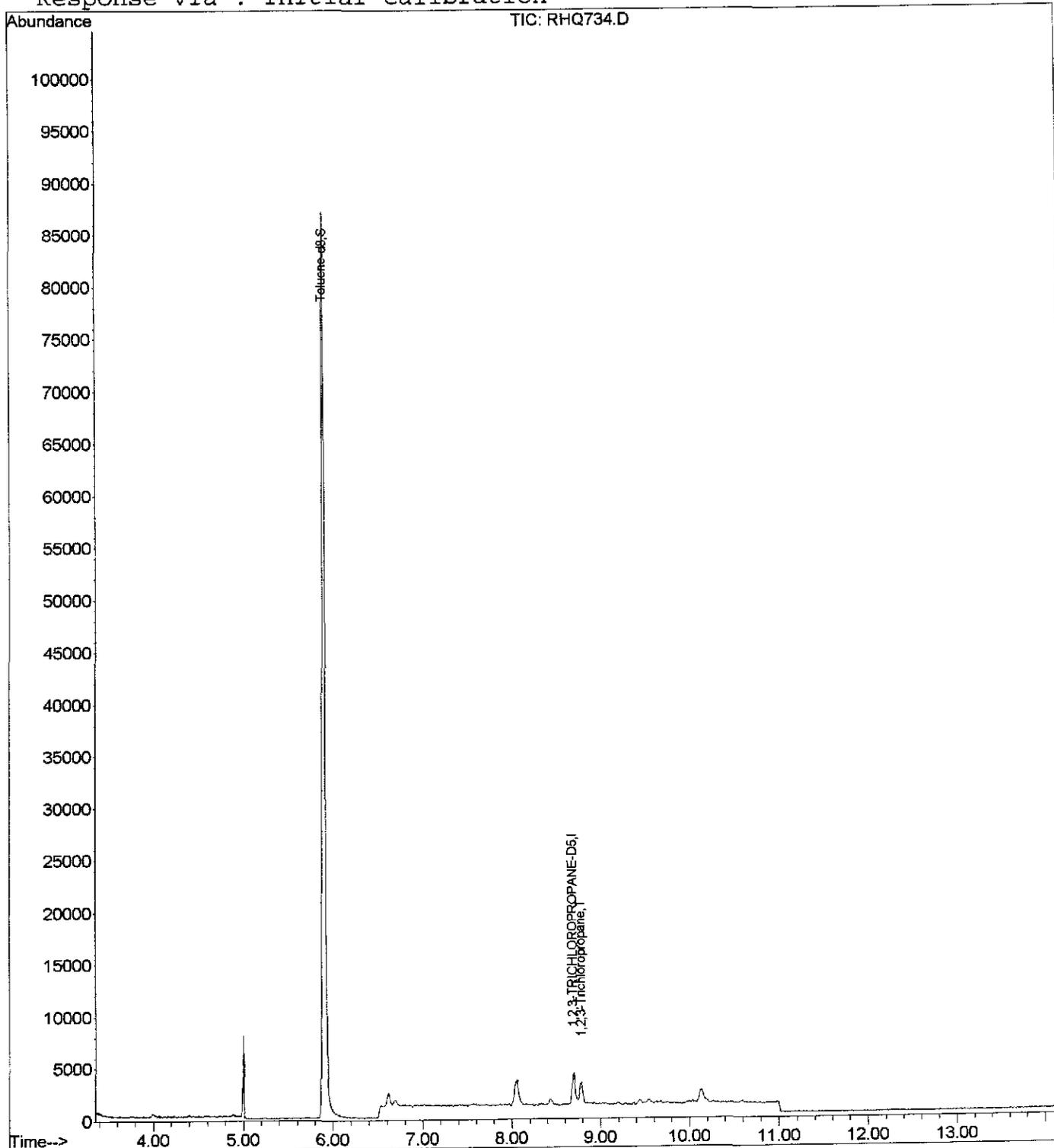
Quantitation Report

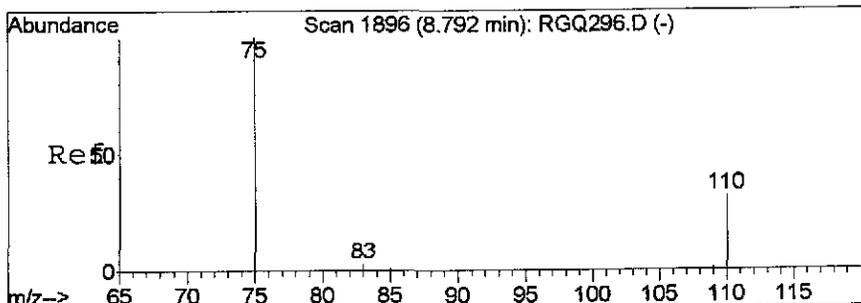
Data File : D:\HPCHEM\1\DATA\12H31\RHQ734.D  
Acq On : 31 Aug 2012 11:57 am  
Sample : 12H184-03 25mL  
Misc : DF=1.0  
MS Integration Params: 524INT.P  
Quant Time: Sep 4 7:29 2012

Vial: 9  
Operator: SD  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RE

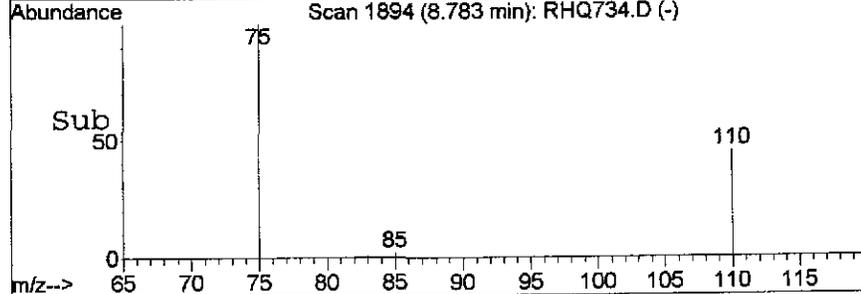
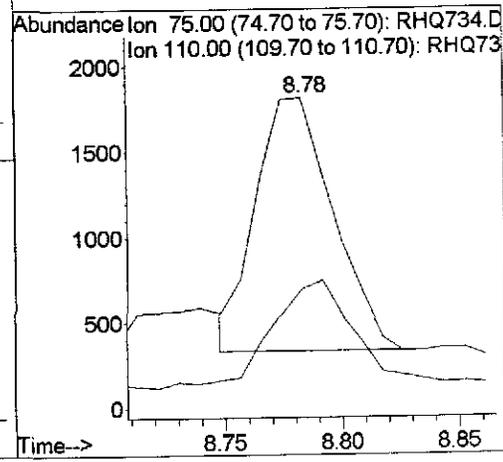
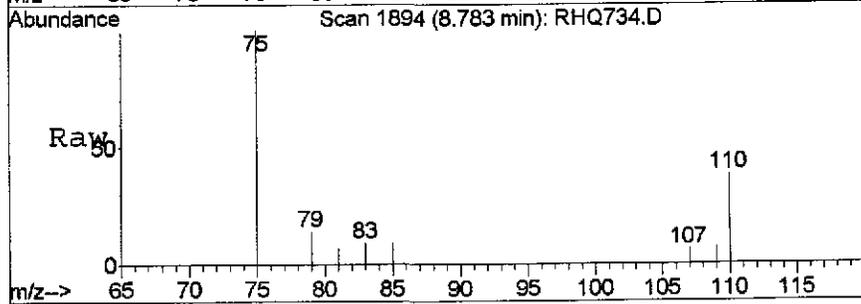
Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration





#6  
 1,2,3-Trichloropropane  
 Concen: 37.31 ng/l  
 RT: 8.78 min Scan# 1894  
 Delta R.T. -0.01 min  
 Lab File: RHQ734.D  
 Acq: 31 Aug 2012 11:57 am

Tgt Ion	Resp	Lower	Upper
75	3408	100	100
110	40.5	17.1	77.1



Data File : D:\HPCHEM\1\DATA\12H31\RHQ735.D  
 Acq On : 31 Aug 2012 12:28 pm  
 Sample : 12H184-03M 25mL  
 Misc : DF=1.0

Vial: 10  
 Operator: SD  
 Inst : TO05  
 Multiplr: 1.00

MS Integration Params: 524INT.P  
 Quant Time: Sep 4 7:29 2012

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) 1,2,3-TRICHLOROPROPANE-D5	8.70	79	5410	50.00	ng/l	-0.02	
System Monitoring Compounds							
3) Toluene-d8	5.90	98	104793	97.60	ng/l	-0.02	
Spiked Amount	100.000		Recovery	=	97.60%		
Target Compounds							
2) 1,2-Dichloroethane	4.40	62	22901	100.69	ng/l		Qvalue 100
4) 1,2-Dibromoethane	7.01	107	14590	91.46	ng/l		96
5) 1,1,2,2-Tetrachloroethane	8.61	83	14900	95.43	ng/l		95
6) 1,2,3-Trichloropropane	8.78	75	11533	135.61	ng/l		97
7) 1,2-Dibromo-3-chloropropan	11.55	157	1281	59.77	ng/l		94

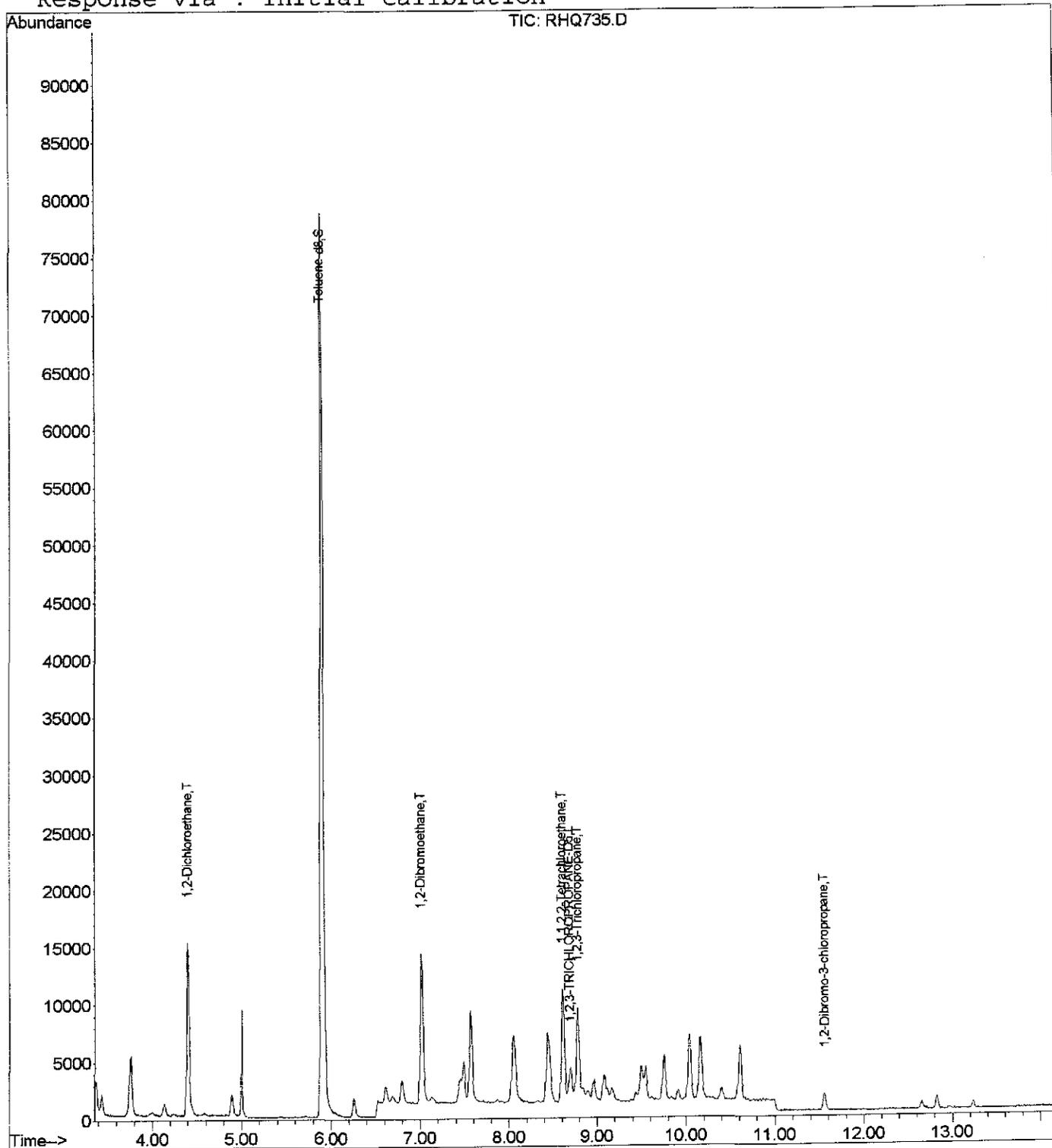
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H31\RHQ735.D  
Acq On : 31 Aug 2012 12:28 pm  
Sample : 12H184-03M 25mL  
Misc : DF=1.0  
MS Integration Params: 524INT.P  
Quant Time: Sep 4 7:29 2012

Vial: 10  
Operator: SD  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RE

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\12H31\RHQ736.D  
 Acq On : 31 Aug 2012 12:57 pm ✓  
 Sample : 12H184-03S 25mL  
 Misc : DF=1.0

Vial: 11  
 Operator: SD  
 Inst : T005  
 Multiplr: 1.00

MS Integration Params: 524INT.P  
 Quant Time: Sep 4 10:08 2012

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28 ✓

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) 1,2,3-TRICHLOROPROPANE-D5	8.70	79	5734	50.00	ng/l	-0.02	
System Monitoring Compounds							
3) Toluene-d8	5.90	98	107520	94.48	ng/l	-0.02	
Spiked Amount	100.000		Recovery	=	94.48%		
Target Compounds							
2) 1,2-Dichloroethane	4.40	62	25224	104.64	ng/l ✓		Qvalue 98
4) 1,2-Dibromoethane	7.01	107	16585	98.09	ng/l		99
5) 1,1,2,2-Tetrachloroethane	8.61	83	16924	102.26	ng/l ✓		95
6) 1,2,3-Trichloropropane	8.78	75	12908	143.20	ng/l		97
7) 1,2-Dibromo-3-chloropropan	11.56	157	1570	69.12	ng/l ✓		99

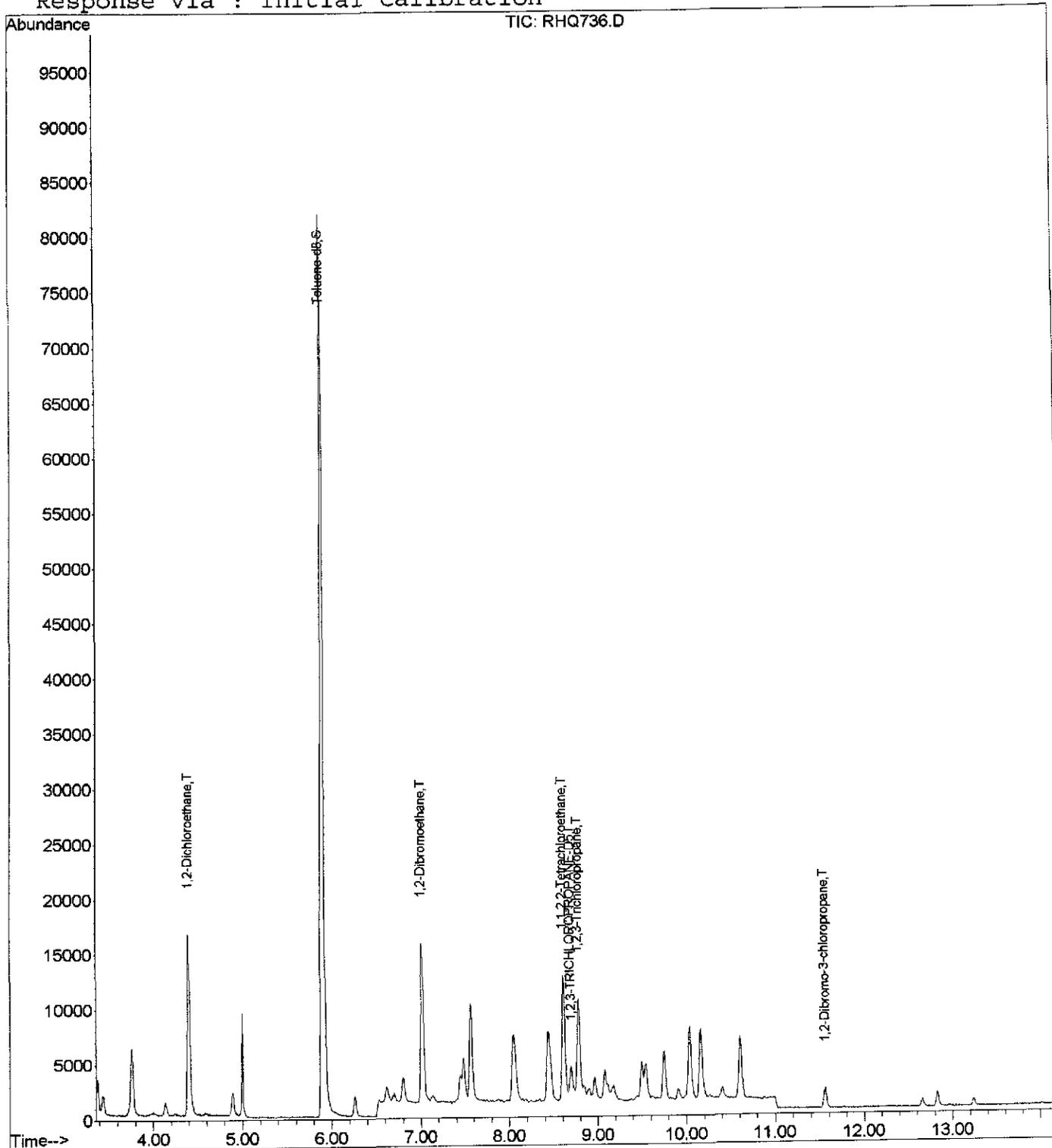
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H31\RHQ736.D  
Acq On : 31 Aug 2012 12:57 pm  
Sample : 12H184-03S 25mL  
Misc : DF=1.0  
MS Integration Params: 524INT.P  
Quant Time: Sep 4 10:08 2012

Vial: 11  
Operator: SD  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RE

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



# **INITIAL CALIBRATIONS**



INITIAL\_CALIBRATION - RELATIVE\_RESPONSE\_FACTOR

Instrument ID :T005  
 Beginning DateTime :07/28/11 19:28  
 Spike Units :PPT  
 IC File :RGQ296

Column Spec :RTX502.2 ID :0.32MM  
 Ending DateTime :07/28/11 22:52  
 HPChem Method :V005G28

M_IDX	Parameters	5	10	20	50	100	200	400	1000	Av_RRF	%_RSD	Av_Rt_M
		19:28 RGQ292	19:57 RGQ293	20:26 RGQ294	20:56 RGQ295	21:25 RGQ296	21:54 RGQ297	22:23 RGQ298	22:52 RGQ299			
1	1,2,3-TRICHLOROPROPANE-D5	1	1	1	1	1	1	1	1	1	0	8.7120
2	1,2-Dichloroethane	1.874	1.656	1.799	2.378	2.351	2.300	2.267	2.193	2.102	13.40	4.4126
3	Toluene-d8	-----	11.864	11.956	9.775	8.624	8.967	8.842	9.435	9.923	14.21	5.9194
4	1,2-Dibromoethane	1.481	1.340	1.189	1.578	1.598	1.554	1.529	1.526	1.474	9.52	7.0312
5	1,1,2,2-Tetrachloroethane	-----	1.378	1.339	1.482	1.548	1.477	1.430	1.448	1.443	4.82	8.6272
6	1,2,3-Trichloropropane	0.749	0.702	0.612	0.770	0.826	0.905	0.938	-----	0.786	14.49	8.7953
7	1,2-Dibromo-3-chloropropane	-----	-----	0.165	0.204	0.216	0.189	0.204	0.210	0.198	9.43	11.5709

Ave\_%RSD : 11      Max\_%RSD : 14.5

*Sc*  
*8/24/11*

Compound List Report T005

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 Total Cpnds : 7

PK#	Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1 I	1,2,3-TRICHLOROPROPANE-D5	79	8.71	1.000	A	1	A	B
2 T	1,2-Dichloroethane	62	4.42	0.507	A	1	A	B
3 S	Toluene-d8	98	5.92	0.679	A	1	A	B
4 T	1,2-Dibromoethane	107	7.03	0.807	A	1	A	B
5 T	1,1,2,2-Tetrachloroethane	83	8.63	0.990	A	1	A	B
6 T	1,2,3-Trichloropropane	75	8.79	1.009	A	1	A	B
7 T	1,2-Dibromo-3-chloropropane	157	11.57	1.327	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin  
 #Qual = number of qualifiers  
 A/H = Area or Height  
 ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

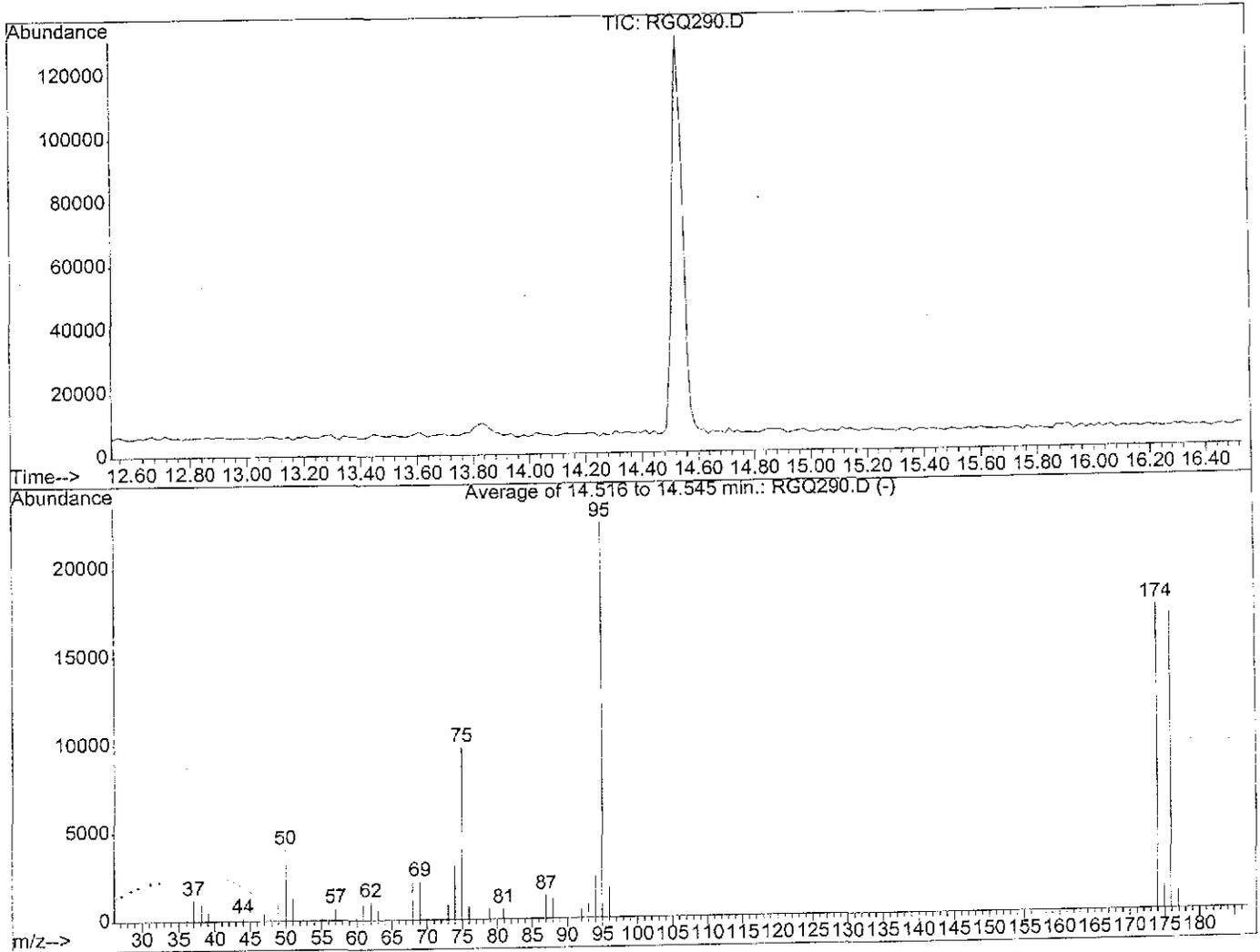
VO05G28.M Mon Aug 01 14:21:34 2011

54  
8/24/11

BFB

Data File : D:\HPCHEM\1\DATA\11G28\RGQ290.D  
 Acq On : 28 Jul 2011 6:29 pm  
 Sample : BFB05G16  
 Misc : T/CHK  
 MS Integration Params: RTE.P  
 Method : D:\HPCHEM\1\METHODS\VO05G15.M (RTE Integrator)  
 Title : METHOD 8260

Vial: 12  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00



AutoFind: Scans 859, 860, 861; Background Corrected with Scan 854

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	4040	PASS
75	95	30	60	43.6	9767	PASS
95	95	100	100	100.0	22400	PASS
96	95	5	9	7.5	1687	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.2	17298	PASS
175	174	5	9	7.8	1350	PASS
176	174	95	101	97.3	16835	PASS
177	176	5	9	6.2	1038	PASS

Data File : D:\HPCHEM\1\DATA\11G28\RGQ292.D  
 Acq On : 28 Jul 2011 7:28 pm  
 Sample : VO05G281  
 Misc : 5.0PPT

Vial: 15  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

MS Integration Params: 524INT.P  
 Quant Time: Aug 1 14:20 2011

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.71	79	8374	50.00	ng/l	0.00
System Monitoring Compounds						
3) Toluene-d8	0.00	98	0d	0.00	ng/l	
Spiked Amount	100.000		Recovery	=	0.00%	
Target Compounds						
2) 1,2-Dichloroethane	4.41	62	1569	4.46	ng/l	55
4) 1,2-Dibromoethane	7.03	107	1240	5.02	ng/l	97
6) 1,2,3-Trichloropropane	8.80	75	627	4.76	ng/l	92

*Sc*  
*8/24/11*

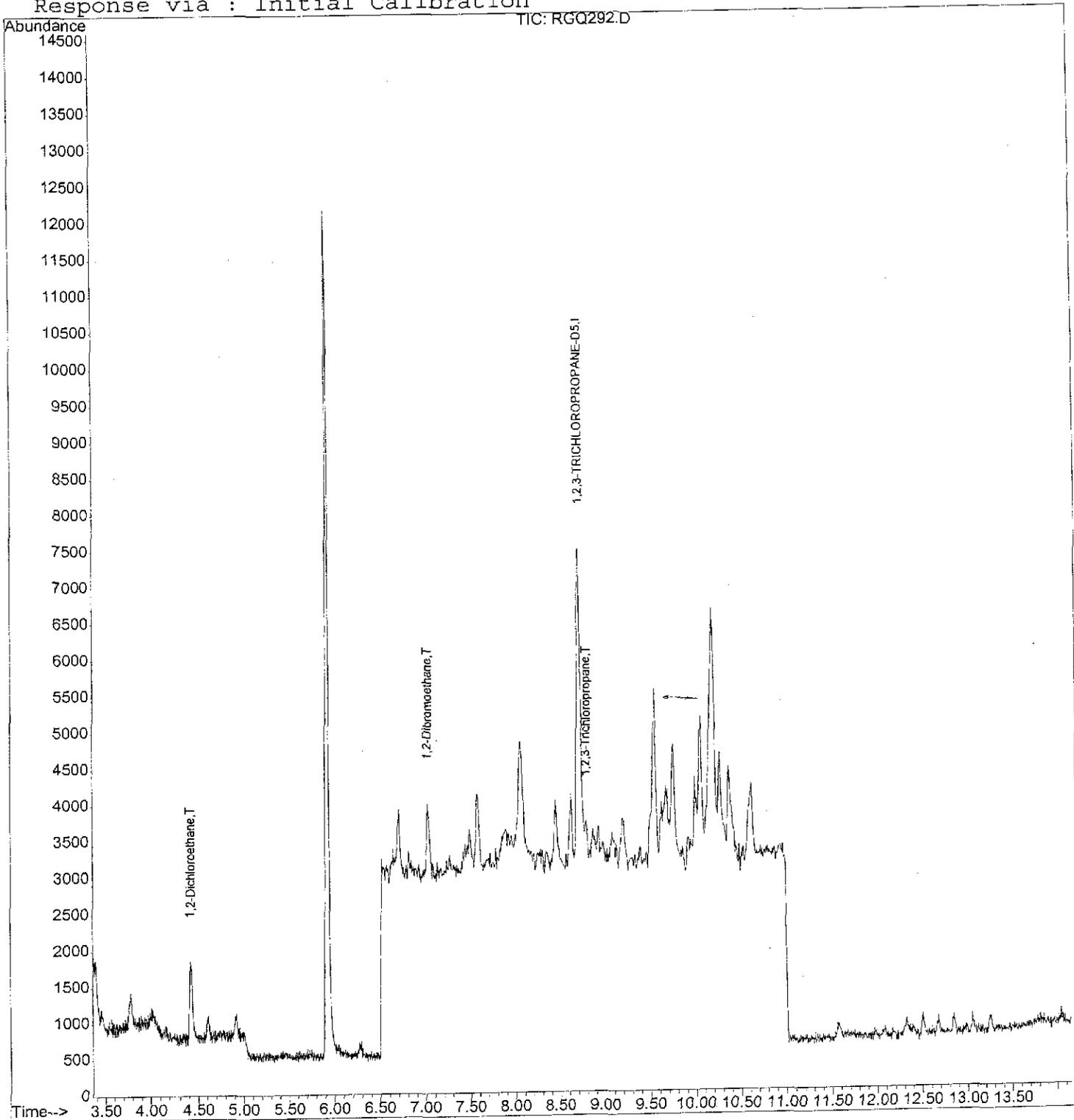
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ292.D  
Acq On : 28 Jul 2011 7:28 pm  
Sample : VO05G281  
Misc : 5.0PPT  
MS Integration Params: 524INT.P  
Quant Time: Aug 1 14:20 2011

Vial: 15  
Operator: DN  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



*508/24/11*

Data File : D:\HPCHEM\1\DATA\11G28\RGQ293.D  
 Acq On : 28 Jul 2011 7:57 pm  
 Sample : VO05G282  
 Misc : 10PPT  
 MS Integration Params: 524INT.P  
 Quant Time: Aug 1 14:20 2011

Vial: 16  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.71	79	8508	50.00	ng/l	0.00
System Monitoring Compounds						
3) Toluene-d8	5.92	98	20188	11.96	ng/l	0.00
Spiked Amount	100.000		Recovery	=	11.96%	
Target Compounds						
2) 1,2-Dichloroethane	4.42	62	2818	7.88	ng/l	62
4) 1,2-Dibromoethane	7.03	107	2280	9.09	ng/l	96
5) 1,1,2,2-Tetrachloroethane	8.63	83	2344	9.55	ng/l	96
6) 1,2,3-Trichloropropane	8.79	75	1195	8.93	ng/l	79

S  
 8/24/11

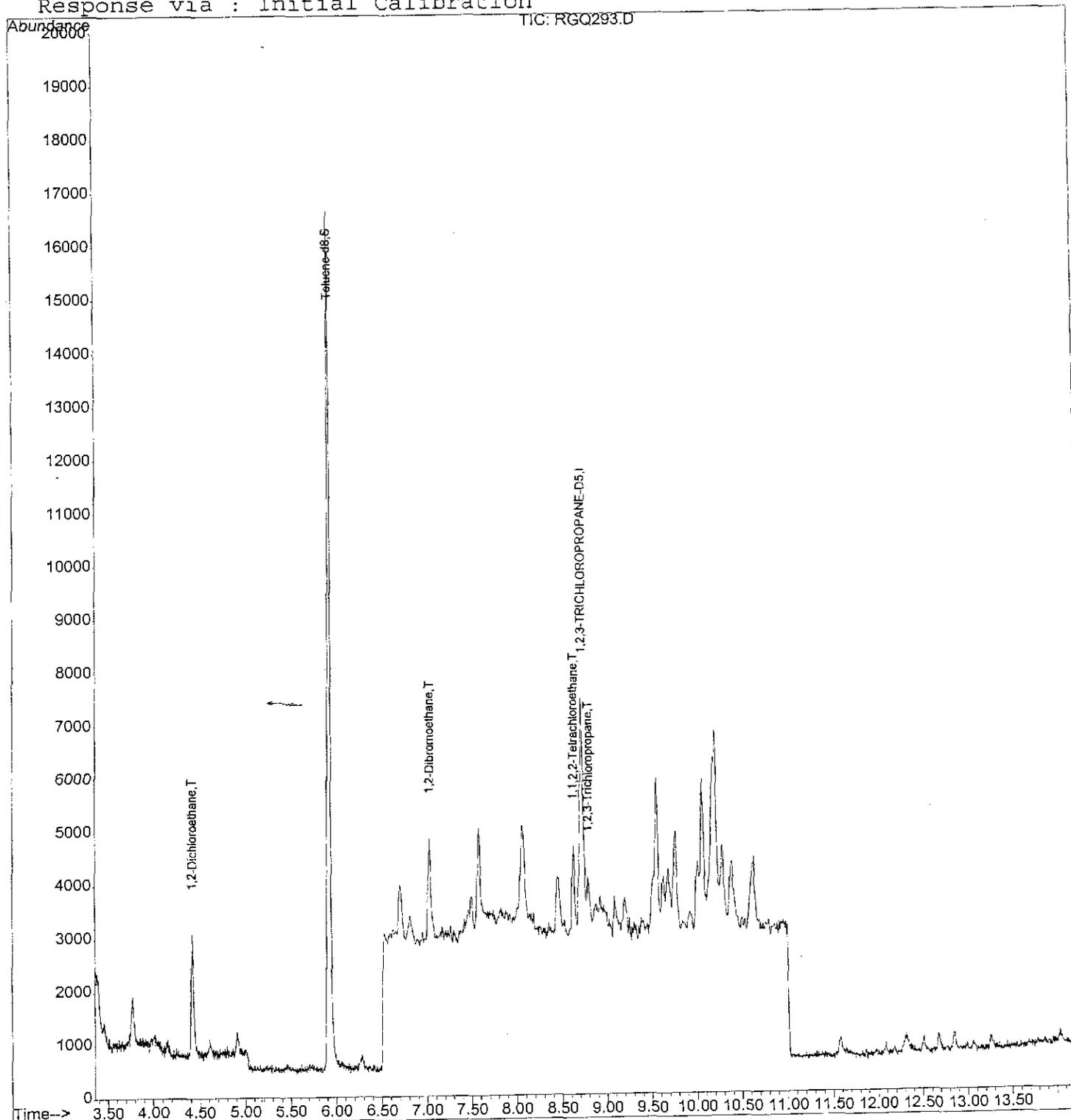
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ293.D  
Acq On : 28 Jul 2011 7:57 pm  
Sample : VO05G282  
Misc : 10PPT  
MS Integration Params: 524INT.P  
Quant Time: Aug 1 14:20 2011

Vial: 16  
Operator: DN  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



*50  
8/24/11*

Data File : D:\HPCHEM\1\DATA\11G28\RGQ294.D  
 Acq On : 28 Jul 2011 8:26 pm  
 Sample : VO05G283  
 Misc : 20PPT  
 MS Integration Params: 524INT.P  
 Quant Time: Aug 1 13:02 2011

Vial: 17  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) 1,2,3-TRICHLOROPROPANE-D5	8.71	79	8167	50.00	ng/l	0.00	
System Monitoring Compounds							
3) Toluene-d8	5.92	98	39057	24.10	ng/l	0.00	
Spiked Amount	100.000		Recovery	=	24.10%		
							Qvalue
2) 1,2-Dichloroethane	4.41	62	5876	17.11	ng/l		95
4) 1,2-Dibromoethane	7.04	107	3883	16.12	ng/l		94
5) 1,1,2,2-Tetrachloroethane	8.63	83	4373	18.55	ng/l		90
6) 1,2,3-Trichloropropane	8.80	75	1998	15.56	ng/l		88
7) 1,2-Dibromo-3-chloropropan	11.57	157	538	16.63	ng/l		94

30  
8/24/11

(#) = qualifier out of range (m) = manual integration  
 RGQ294.D VO05G28.M Mon Aug 01 14:20:58 2011

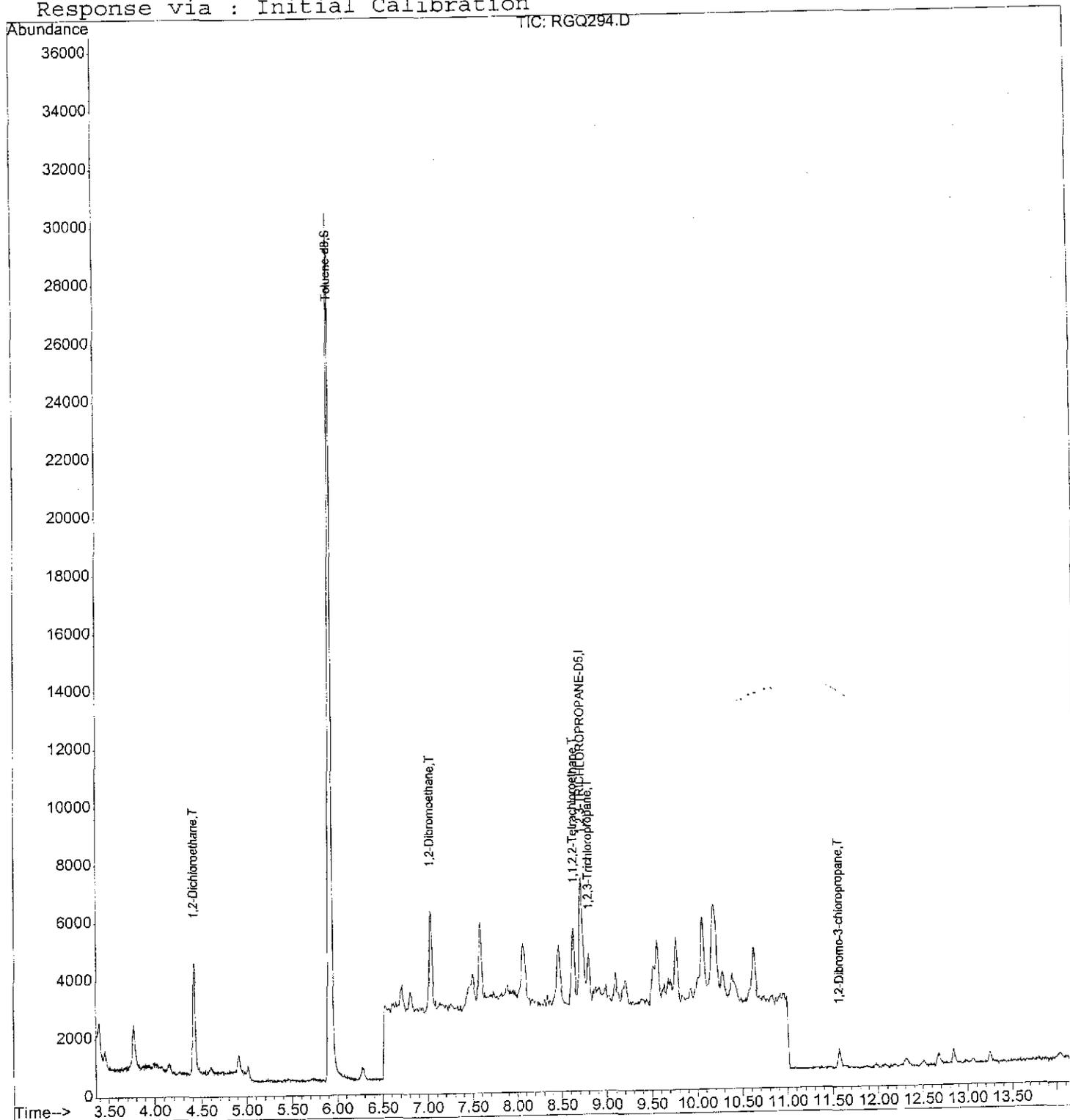
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ294.D  
Acq On : 28 Jul 2011 8:26 pm  
Sample : VO05G283  
Misc : 20PPT  
MS Integration Params: 524INT.P  
Quant Time: Aug 1 13:02 2011

Vial: 17  
Operator: DN  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



*su*  
*8/24/11*

Data File : D:\HPCHEM\1\DATA\11G28\RGQ295.D  
 Acq On : 28 Jul 2011 8:56 pm  
 Sample : VO05G284  
 Misc : 50PPT

Vial: 18  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

MS Integration Params: 524INT.P

Quant Time: Aug 1 13:02 2011

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)

Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) 1,2,3-TRICHLOROPROPANE-D5	8.71	79	7811	50.00	ng/l	0.00	
System Monitoring Compounds							
3) Toluene-d8	5.92	98	76352	49.25	ng/l	0.00	
Spiked Amount	100.000		Recovery	=	49.25%		
							Qvalue
2) 1,2-Dichloroethane	4.41	62	18572	56.56	ng/l		97
4) 1,2-Dibromoethane	7.03	107	12327	53.52	ng/l		99
5) 1,1,2,2-Tetrachloroethane	8.63	83	11579	51.36	ng/l		99
6) 1,2,3-Trichloropropane	8.80	75	6018	49.01	ng/l		98
7) 1,2-Dibromo-3-chloropropan	11.57	157	1594	51.52	ng/l		90

*sa*  
*8/24/11*

(#) = qualifier out of range (m) = manual integration  
 RGQ295.D VO05G28.M Mon Aug 01 14:21:01 2011

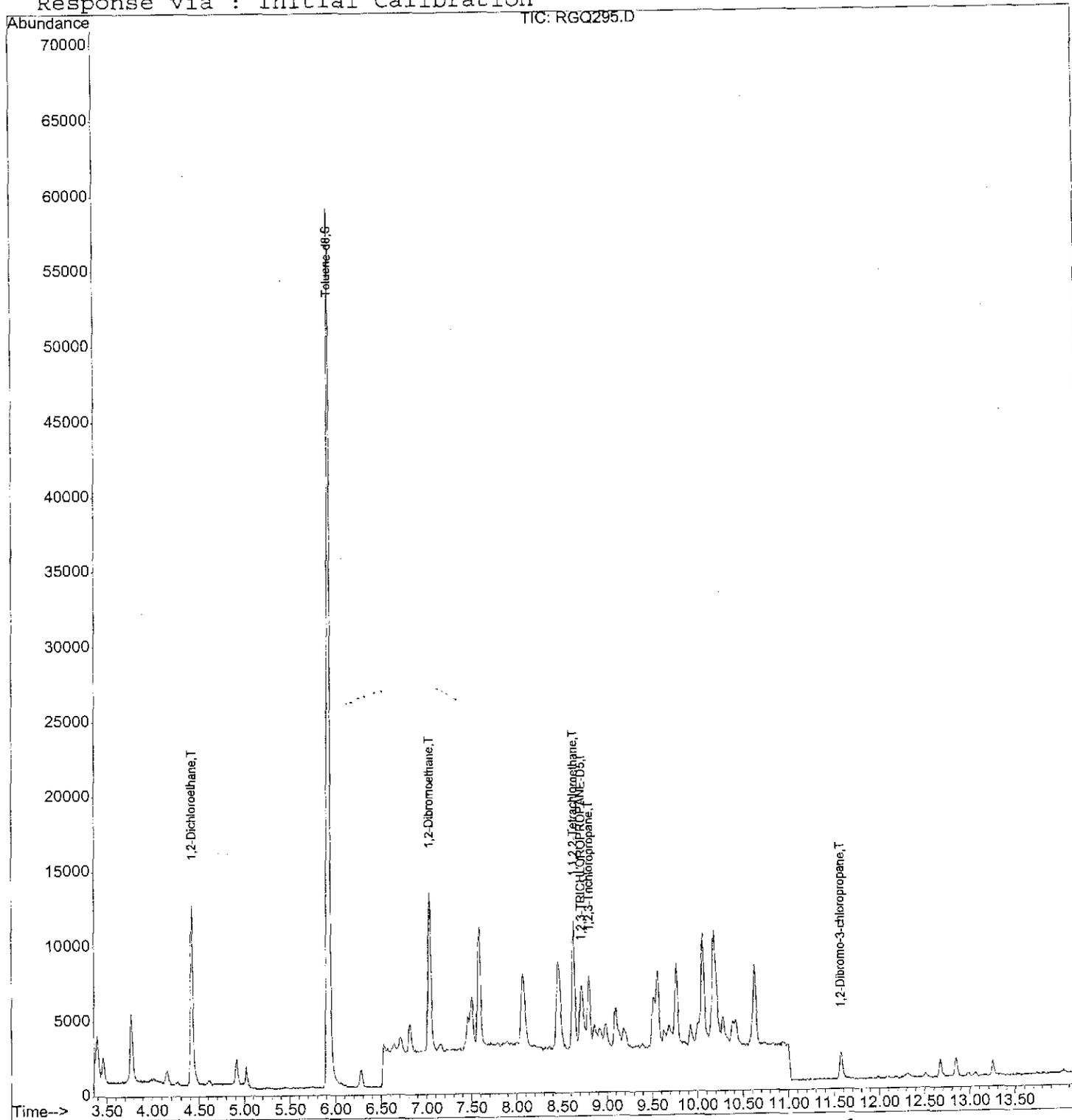
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ295.D  
Acq On : 28 Jul 2011 8:56 pm  
Sample : VO05G284  
Misc : 50PPT  
MS Integration Params: 524INT.P  
Quant Time: Aug 1 13:02 2011

Vial: 18  
Operator: DN  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



Su  
8/24/11

Data File : D:\HPCHEM\1\DATA\11G28\RGQ296.D  
 Acq On : 28 Jul 2011 9:25 pm  
 Sample : VO05G285  
 Misc : 100PPT

Vial: 19  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

MS Integration Params: 524INT.P  
 Quant Time: Aug 1 13:02 2011

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) 1,2,3-TRICHLOROPROPANE-D5	8.71	79	8389	50.00	ng/l	0.00	
System Monitoring Compounds							
3) Toluene-d8	5.92	98	144687	86.90	ng/l	0.00	
Spiked Amount	100.000		Recovery	=	86.90%		
							Qvalue
2) 1,2-Dichloroethane	4.42	62	39439	111.83	ng/l		100
4) 1,2-Dibromoethane	7.03	107	26806	108.37	ng/l		100
5) 1,1,2,2-Tetrachloroethane	8.63	83	25965	107.24	ng/l		100
6) 1,2,3-Trichloropropane	8.79	75	13865	105.13	ng/l		100
7) 1,2-Dibromo-3-chloropropan	11.57	157	3628	109.17	ng/l		100

*SA*  
*8/24/11*

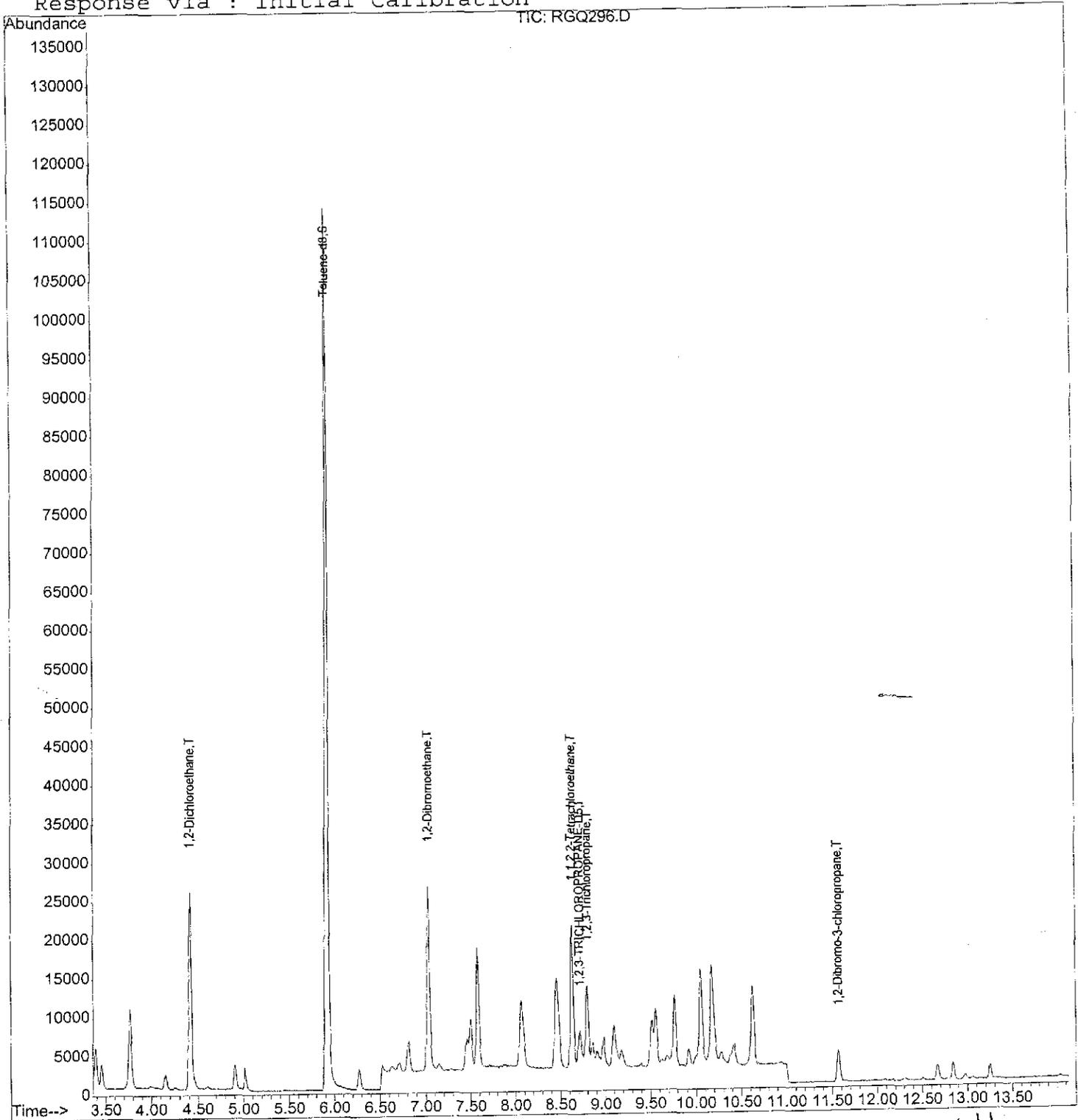
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ296.D  
Acq On : 28 Jul 2011 9:25 pm  
Sample : VO05G285  
Misc : 100PPT  
MS Integration Params: 524INT.P  
Quant Time: Aug 1 13:02 2011

Vial: 19  
Operator: DN  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\11G28\RGQ297.D  
 Acq On : 28 Jul 2011 9:54 pm  
 Sample : VO05G286  
 Misc : 200PPT  
 MS Integration Params: 524INT.P  
 Quant Time: Aug 1 13:02 2011

Vial: 20  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) 1,2,3-TRICHLOROPROPANE-D5	8.71	79	7911	50.00	ng/l	0.00	
System Monitoring Compounds							
3) Toluene-d8	5.92	98	283762	180.73	ng/l	0.00	
Spiked Amount	100.000		Recovery	=	180.73%		
							Qvalue
Target Compounds							
2) 1,2-Dichloroethane	4.41	62	72766	218.80	ng/l		100
4) 1,2-Dibromoethane	7.03	107	49189	210.87	ng/l		100
5) 1,1,2,2-Tetrachloroethane	8.63	83	46745	204.73	ng/l		99
6) 1,2,3-Trichloropropane	8.79	75	28635	230.25	ng/l		92
7) 1,2-Dibromo-3-chloropropan	11.57	157	5985	190.98	ng/l		99

*See 24/11*

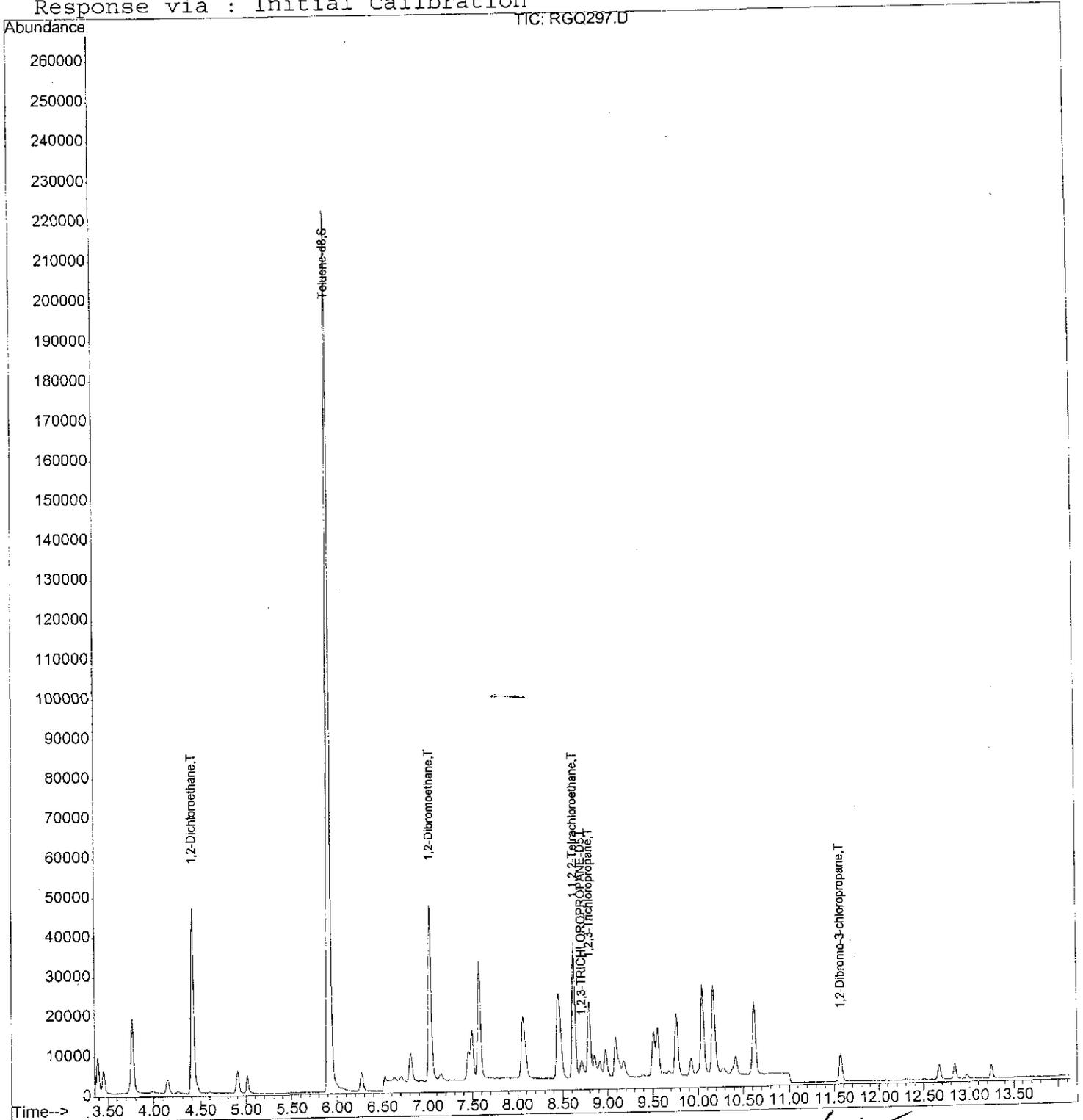
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ297.D  
Acq On : 28 Jul 2011 9:54 pm  
Sample : VO05G286  
Misc : 200PPT  
MS Integration Params: 524INT.P  
Quant Time: Aug 1 13:02 2011

Vial: 20  
Operator: DN  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



*See*  
*8/24/11*

Data File : D:\HPCHEM\1\DATA\11G28\RGQ298.D  
 Acq On : 28 Jul 2011 10:23 pm  
 Sample : VO05G287  
 Misc : 400PPT

Vial: 21  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

MS Integration Params: 524INT.P  
 Quant Time: Aug 1 13:02 2011

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.71	79	7921	50.00	ng/l	0.00
System Monitoring Compounds						
3) Toluene-d8	5.92	98	560318	356.43	ng/l	0.00
Spiked Amount	100.000		Recovery	=	356.43%	
Target Compounds						Qvalue
2) 1,2-Dichloroethane	4.41	62	143625	431.31	ng/l	99
4) 1,2-Dibromoethane	7.03	107	96868	414.75	ng/l	100
5) 1,1,2,2-Tetrachloroethane	8.63	83	90615	396.37	ng/l	99
6) 1,2,3-Trichloropropane	8.79	75	59428	477.25	ng/l	88
7) 1,2-Dibromo-3-chloropropan	11.57	157	12926	411.95	ng/l	96

(#) = qualifier out of range (m) = manual integration  
 RGQ298.D VO05G28.M Mon Aug 01 14:21:12 2011

*3u*  
*8/24/11*

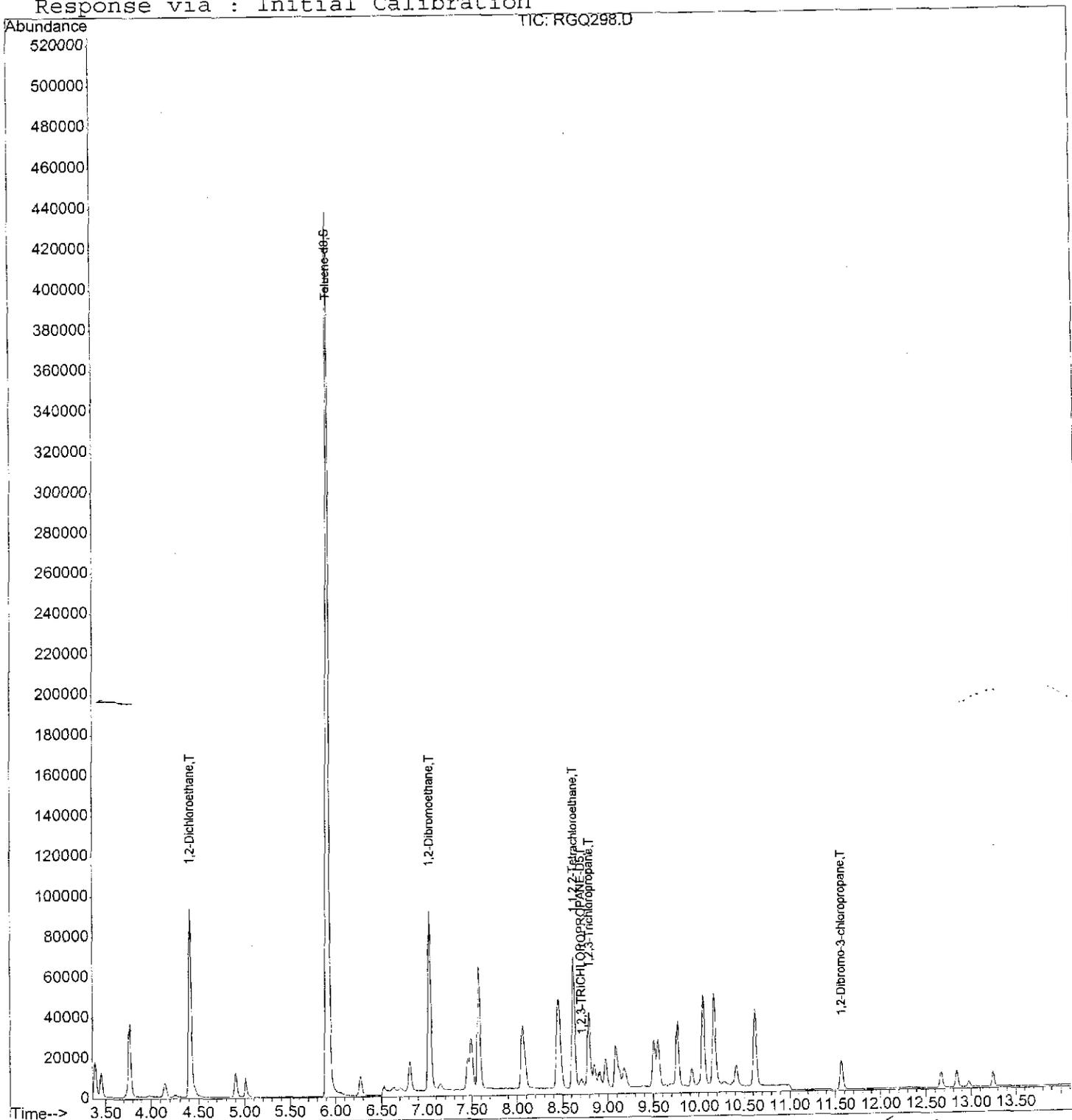
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ298.D  
Acq On : 28 Jul 2011 10:23 pm  
Sample : VO05G287  
Misc : 400PPT  
MS Integration Params: 524INT.P  
Quant Time: Aug 1 13:02 2011

Vial: 21  
Operator: DN  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



*SC*  
*8/24/11*

Data File : D:\HPCHEM\1\DATA\11G28\RGQ299.D  
 Acq On : 28 Jul 2011 10:52 pm  
 Sample : VO05G288  
 Misc : 1000PPT

Vial: 22  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

MS Integration Params: 524INT.P  
 Quant Time: Aug 1 14:20 2011

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.70	79	8507	50.00	ng/l	0.00
System Monitoring Compounds						
3) Toluene-d8	5.92	98	1605286	950.80	ng/l	0.00
Spiked Amount	100.000		Recovery	=	950.80%	
Target Compounds						
2) 1,2-Dichloroethane	4.41	62	373118	1043.31	ng/l	99
4) 1,2-Dibromoethane	7.03	107	259652	1035.14	ng/l	99
5) 1,1,2,2-Tetrachloroethane	8.63	83	246415	1003.62	ng/l	98
7) 1,2-Dibromo-3-chloropropan	11.57	157	35776	1061.64	ng/l	96

*See 8/24/11*

(#) = qualifier out of range (m) = manual integration  
 RGQ299.D VO05G28.M Mon Aug 01 14:21:15 2011

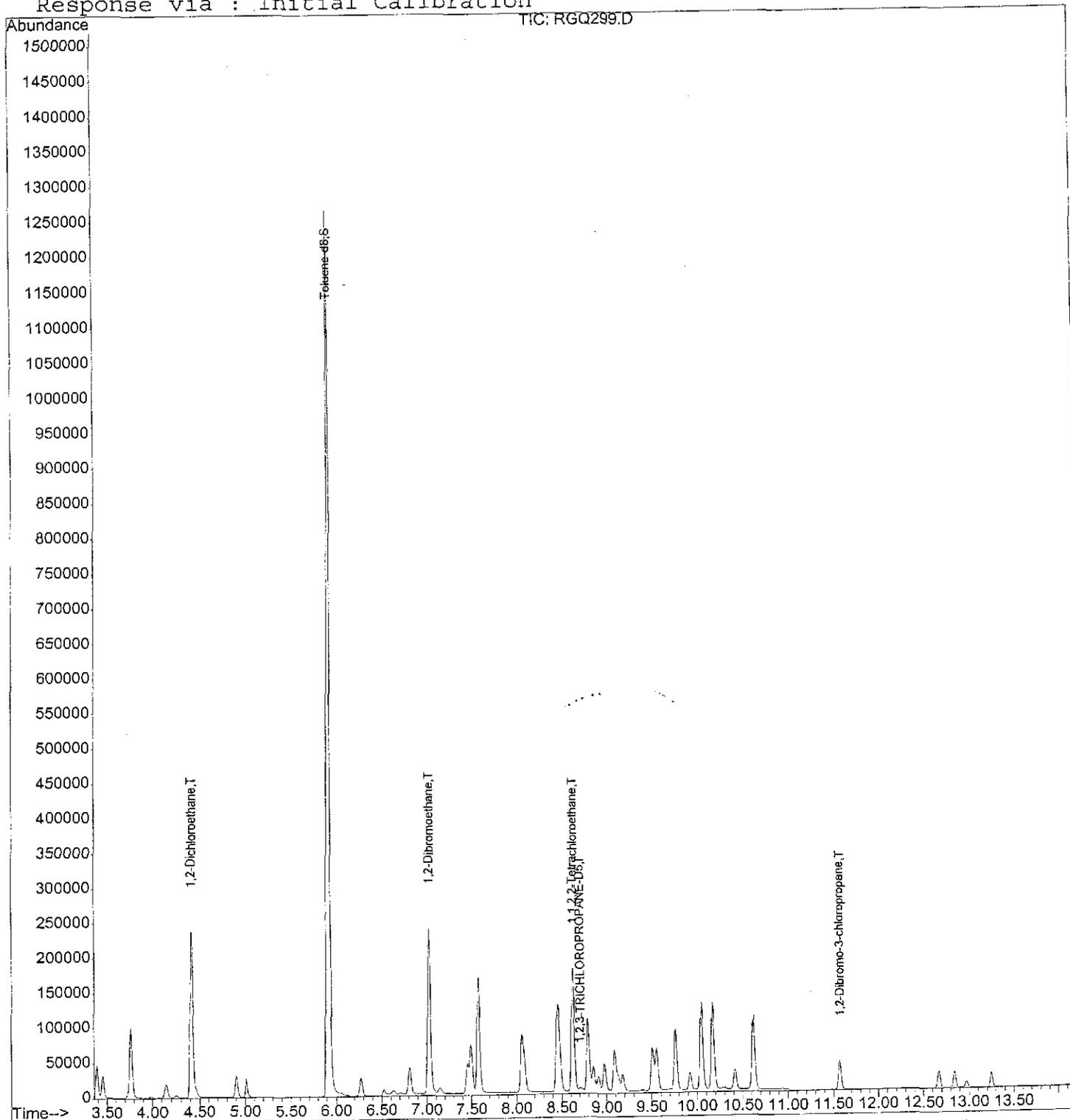
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ299.D  
Acq On : 28 Jul 2011 10:52 pm  
Sample : VO05G288  
Misc : 1000PPT  
MS Integration Params: 524INT.P  
Quant Time: Aug 1 14:20 2011

Vial: 22  
Operator: DN  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



*Handwritten:* SA 8/24/11

# **SECOND SOURCE VERIFICATION**

CONTINUE\_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :T005  
 IC\_Beginning DateTime :07/28/11 19:28  
 Spike Amount :200 PPT /100 PPT surrogate  
 CC/CV File :RGQ302  
 IC File :RGQ296

Column Spec :RTX502.2 ID :0.32MM  
 IC\_Ending DateTime :07/28/11 22:52  
 HPChem Method :V005G28  
 Date\_Time :07/29/11 00:21

M_IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AVRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
1	1,2,3-TRICHLOROPROPANE-D5	50.000	0	8488	1	1	8.713	8.712	0				
2	1,2-Dichloroethane	207.697	3.8	74113	2.183	2.102	4.413	4.413	13.40				
3	Toluene-d8	86.937	-13.1	146453	8.627	9.923	5.919	5.919	14.21				
2	4 1,2-Dibromoethane	199.200	-0.4	49855	1.468	1.474	7.030	7.031	9.52				
2	5 1,1,2,2-Tetrachloroethane	193.805	-3.1	47478	1.398	1.443	8.626	8.627	4.82				
2	6 1,2,3-Trichloropropane	219.686	9.8	29314	0.863	0.786	8.791	8.795	14.49				
2	7 1,2-Dibromo-3-chloropropane	188.589	-5.7	6341	0.187	0.198	11.574	11.571	9.43				

Spike Amount = Nominal Amount \* M

SC  
 8/24/11

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ302.D  
 Acq On : 29 Jul 2011 12:21 am  
 Sample : IVO05G2801  
 Misc : 100PPT *Surogate / 200PPT su 6/20/12*  
 MS Integration Params: 524INT.P

Vial: 25  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Multiple Level Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,2,3-TRICHLOROPROPANE-D5	50.000	50.000	0.0	107	0.00
2 T	1,2-Dichloroethane	200.000	207.698	-3.8	102	0.00
3 S	Toluene-d8	<del>200.000</del>	86.937	<del>17.1</del>	<del>56.5#</del>	52 0.00
4 T	1,2-Dibromoethane	200.000	199.200	0.4	101	0.00
5 T	1,1,2,2-Tetrachloroethane	200.000	193.805	3.1	102	0.00
6 T	1,2,3-Trichloropropane	200.000	219.685	-9.8	102	0.00
7 T	1,2-Dibromo-3-chloropropane	200.000	188.589	5.7	106	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ302.D  
 Acq On : 29 Jul 2011 12:21 am  
 Sample : IVO05G2801  
 Misc : 100PPT *Surrogate / 200PPT SA 6/20/12*  
 MS Integration Params: 524INT.P

Vial: 25  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,2,3-TRICHLOROPROPANE-D5	1.000	1.000	0.0	107	0.00
2 T	1,2-Dichloroethane	2.102	2.183	-3.9	102	0.00
3 S	Toluene-d8	9.923	<del>4.314</del> <i>8.627</i>	<del>56.5</del> <i>56.5</i>	<del>152</del> <i>152</i>	0.00
4 T	1,2-Dibromoethane	1.474	1.468	0.4	101	0.00
5 T	1,1,2,2-Tetrachloroethane	1.443	1.398	3.1	102	0.00
6 T	1,2,3-Trichloropropane	0.786	0.863	-9.8	102	0.00
7 T	1,2-Dibromo-3-chloropropane	0.198	0.187	5.6	106	0.00

*SA 8/24/11*

Data File : D:\HPCHEM\1\DATA\11G28\RGQ302.D  
 Acq On : 29 Jul 2011 12:21 am  
 Sample : IVO05G2801  
 Misc : 100PPT *Seiwogate / 200 PPT*  
 MS Integration Params: 524INT.P  
 Quant Time: Aug 23 14:38 2011

Vial: 25  
 Operator: DN  
 Inst : TO05  
 Multiplr: 1.00

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) 1,2,3-TRICHLOROPROPANE-D5	8.71	79	8488	50.00	ng/l	0.00	
System Monitoring Compounds							
3) Toluene-d8	5.92	98	146453	86.94	ng/l	0.00	
Spiked Amount	100.000		Recovery	=	86.94%		
Target Compounds							Qvalue
2) 1,2-Dichloroethane	4.41	62	74113	207.70	ng/l		99
4) 1,2-Dibromoethane	7.03	107	49855	199.20	ng/l		100
5) 1,1,2,2-Tetrachloroethane	8.63	83	47478	193.80	ng/l		98
6) 1,2,3-Trichloropropane	8.79	75	29314	219.69	ng/l		91
7) 1,2-Dibromo-3-chloropropan	11.57	157	6341	188.59	ng/l		99

-----  
 (#) = qualifier out of range (m) = manual integration  
 RGQ302.D VO05G28.M Tue Aug 23 14:38:58 2011

*Sw  
8/24/11*

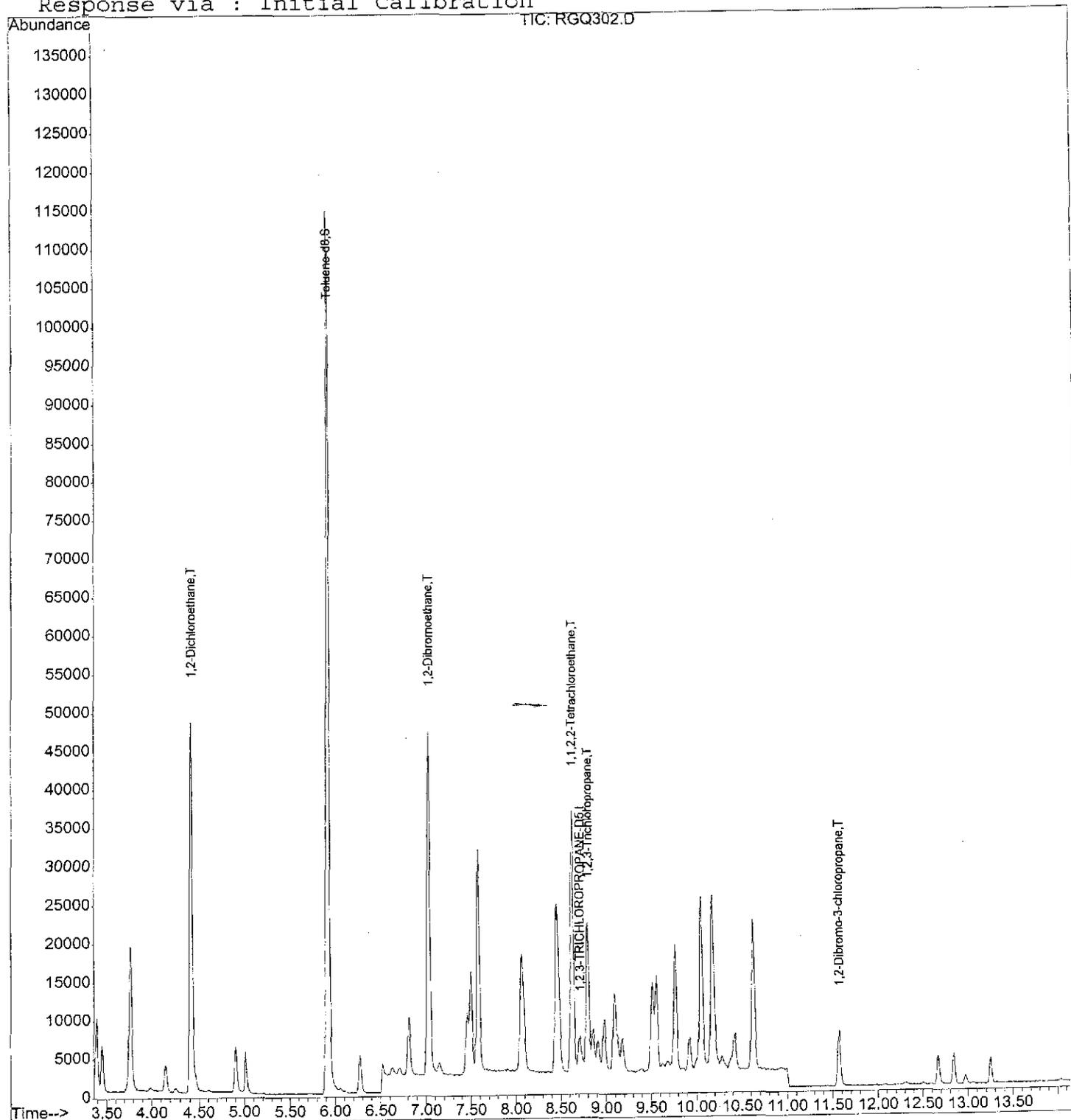
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11G28\RGQ302.D  
Acq On : 29 Jul 2011 12:21 am  
Sample : IVO05G2801  
Misc : 100PPT *Surrogate / 200ppt* *SC*  
MS Integration Params: 524INT.P  
Quant Time: Aug 23 14:38 2011

Vial: 25  
Operator: DN  
Inst : TO05  
Multiplr: 1.00

Quant Results File: VO05G28.RES

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



*SC*  
*8/24/11*

# DAILY CALIBRATIONS



## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc  
 Lab Code: EMXT  
 Lab File ID: RGG296  
 Instrument ID: T005

Project: B & B, MONTHLY CITY WELL SAMPLING  
 SDG No.: 12H184  
 Date Analyzed: 07/28/11  
 Time Analyzed: 21:25

	IS1(TCP) AREA #	RT #
12 HOUR STD	8389	8.71
UPPER LIMIT	16778	9.21
LOWER LIMIT	4195	8.21
=====		
SAMPLE ID		
=====		
1 VSTD100	5747	8.69
2 MBLK1W	5648	8.70
3 LCS1W	6147	8.70
4 LCD1W	6022	8.70
5 08-27-12-CW-1	5360	8.70
6 08-27-12-CW-5	5450	8.70
7 08-27-12-CW-6	5810	8.70
8 08-27-12-CW-6MS	5410	8.70
9 08-27-12-CW-6MSD	5734	8.70
10 08-27-12-CW-8	5908	8.70
11 08-27-12-CW-9	5851	8.70
12 08-27-12-CW-10	5766	8.70
13 08-27-12-FDUP-1	5484	8.70

IS1 (TCP) = 1,2,3-Trichloropropane-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag internal standard area values with an asterisk

\* Values outside of QC limits.

CONTINUE\_CALIBRATION - CALIBRATION VERIFICATION

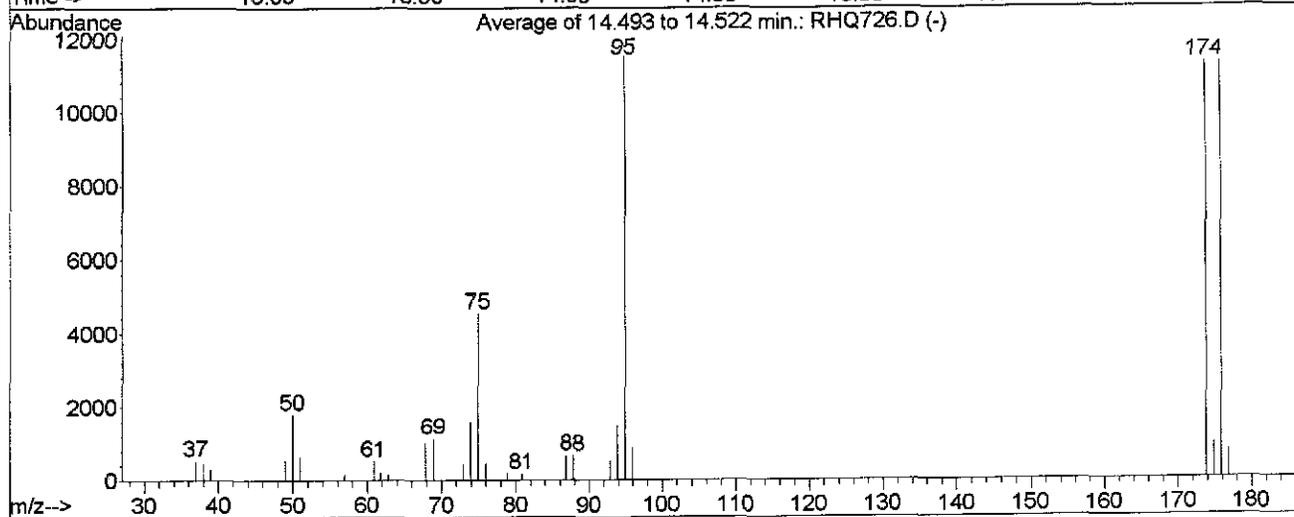
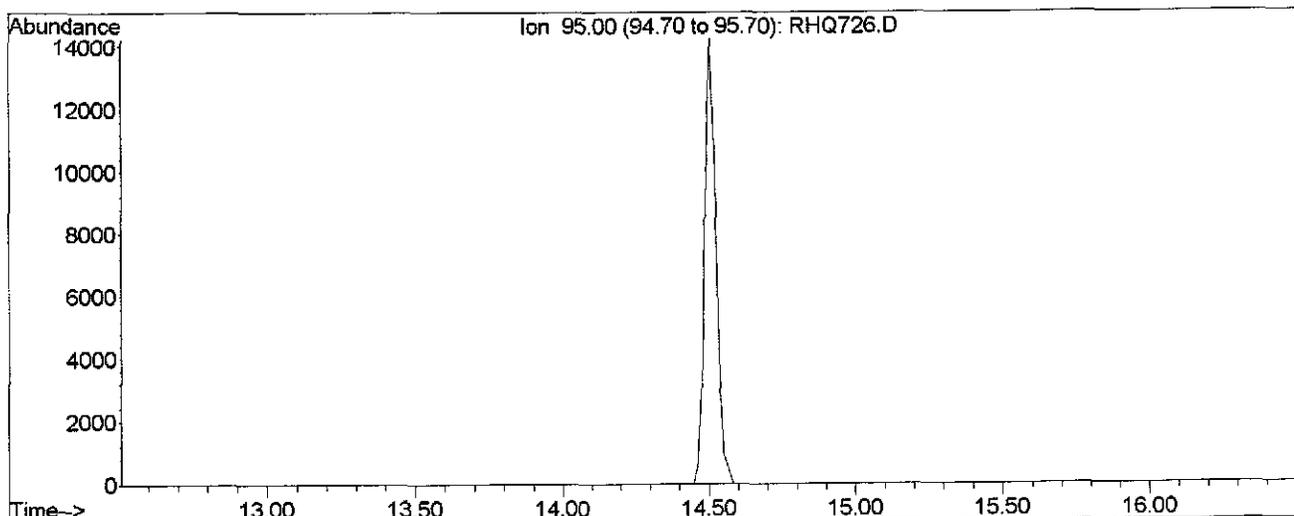
Instrument ID :T005  
 IC\_Beginning DateTime :07/28/11 19:28  
 Spike Amount :100 PPT  
 CC/CV File :RHQ727  
 IC File :RGQ296

Column Spec :RTX502.2 ID :0.32MM  
 IC\_Ending DateTime :07/28/11 22:52  
 HPChem Method :v005G28  
 Date\_Time :08/31/12 08:13

M	IDX	Parameters	CC_Con	CC%D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,2,3-TRICHLOROPROPANE-D5	50.000	0	5747	1	1	8.689	8.712	0				
	2	1,2-Dichloroethane	120.897	20.9	29209	2.541	2.102	4.401	4.413	13.40				
	3	Toluene-d8	84.233	-15.8	96075	8.359	9.923	5.903	5.919	14.21				
	4	1,2-Dibromoethane	108.329	8.3	18357	1.597	1.474	7.014	7.031	9.52				
	5	1,1,2,2-Tetrachloroethane	118.889	18.9	19720	1.716	1.443	8.610	8.627	4.82				
	6	1,2,3-Trichloropropane	115.765	15.8	10459	0.910	0.786	8.776	8.795	14.49				
	7	1,2-Dibromo-3-chloropropane	91.278	-8.7	2078	0.181	0.198	11.554	11.571	9.43				

Data File : D:\HPCHEM\1\DATA\12H31\RHQ726.D  
 Acq On : 31 Aug 2012 6:41 am  
 Sample : BFB05H34  
 Misc : T/CHK  
 MS Integration Params: RTE.P  
 Method : D:\HPCHEM\1\METHODS\VO05G09.M (RTE Integrator)  
 Title : METHOD 8260

Vial: 1  
 Operator: SD  
 Inst : TO05  
 Multiplr: 1.00



AutoFind: Scans 861, 862, 863; Background Corrected with Scan 856

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6 ✓	1795	PASS
75	95	30	60	39.3 ✓	4535	PASS
95	95	100	100	100.0	11540	PASS
96	95	5	9	7.6 ✓	880	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	97.9 ✓	11300	PASS
175	174	5	9	8.2 ✓	928	PASS
176	174	95	101	100.0 ✓	11300	PASS
177	176	5	9	6.6 ✓	743	PASS

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H31\RHQ727.D  
 Acq On : 31 Aug 2012 8:13 am  
 Sample : CVO05G2816  
 Misc : 100ppt  
 MS Integration Params: 524INT.P

Vial: 2  
 Operator: SD  
 Inst : TO05  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Multiple Level Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,2,3-TRICHLOROPROPANE-D5	50.000	50.000	0.0	69	-0.02
2 T	1,2-Dichloroethane	100.000	120.898 <sup>WT</sup>	-20.9#	74	-0.01
3 S	Toluene-d8	100.000	84.233	15.8	66	-0.02
4 T	1,2-Dibromoethane	100.000	108.329	-8.3	68	-0.02
5 T	1,1,2,2-Tetrachloroethane	100.000	118.889	-18.9	76	-0.02
6 T	1,2,3-Trichloropropane	100.000	115.766	-15.8	75	-0.02
7 T	1,2-Dibromo-3-chloropropane	100.000	91.278	8.7	57	-0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\12H31\RHQ727.D  
 Acq On : 31 Aug 2012 8:13 am  
 Sample : CVO05G2816  
 Misc : 100ppt  
 MS Integration Params: 524INT.P

Vial: 2  
 Operator: SD  
 Inst : TO05  
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,2,3-TRICHLOROPROPANE-D5	1.000	1.000	0.0	69	-0.02
2 T	1,2-Dichloroethane	2.102	2.541	-20.9#	74	-0.01
3 S	Toluene-d8	9.923	8.359	15.8	66	-0.02
4 T	1,2-Dibromoethane	1.474	1.597	-8.3	68	-0.02
5 T	1,1,2,2-Tetrachloroethane	1.443	1.716	-18.9	76	-0.02
6 T	1,2,3-Trichloropropane	0.786	0.910	-15.8	75	-0.02
7 T	1,2-Dibromo-3-chloropropane	0.198	0.181	8.6	57	-0.01

Data File : D:\HPCHEM\1\DATA\12H31\RHQ727.D  
 Acq On : 31 Aug 2012 8:13 am  
 Sample : CVO05G2816  
 Misc : 100ppt

Vial: 2  
 Operator: SD  
 Inst : T005  
 Multiplr: 1.00

MS Integration Params: 524INT.P  
 Quant Time: Aug 31 9:31 2012

Quant Results File: VO05G28.RES

Quant Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
 Title : METHOD 8260 SIM  
 Last Update : Mon Aug 01 13:00:43 2011  
 Response via : Initial Calibration ✓  
 DataAcq Meth : VO05G28

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,2,3-TRICHLOROPROPANE-D5	8.69 ✓	79	5747 ✓	50.00	ng/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
3) Toluene-d8	5.90	98	96075	84.23	ng/l	-0.02
Spiked Amount	100.000		Recovery	=	84.23%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,2-Dichloroethane	4.40	62	29209	120.90	ng/l	98
4) 1,2-Dibromoethane	7.01	107	18357	108.33	ng/l	98
5) 1,1,2,2-Tetrachloroethane	8.61	83	19720	118.89	ng/l	94
6) 1,2,3-Trichloropropane	8.78	75	10459	115.77	ng/l	100
7) 1,2-Dibromo-3-chloropropan	11.55	157	2078	91.28	ng/l	94

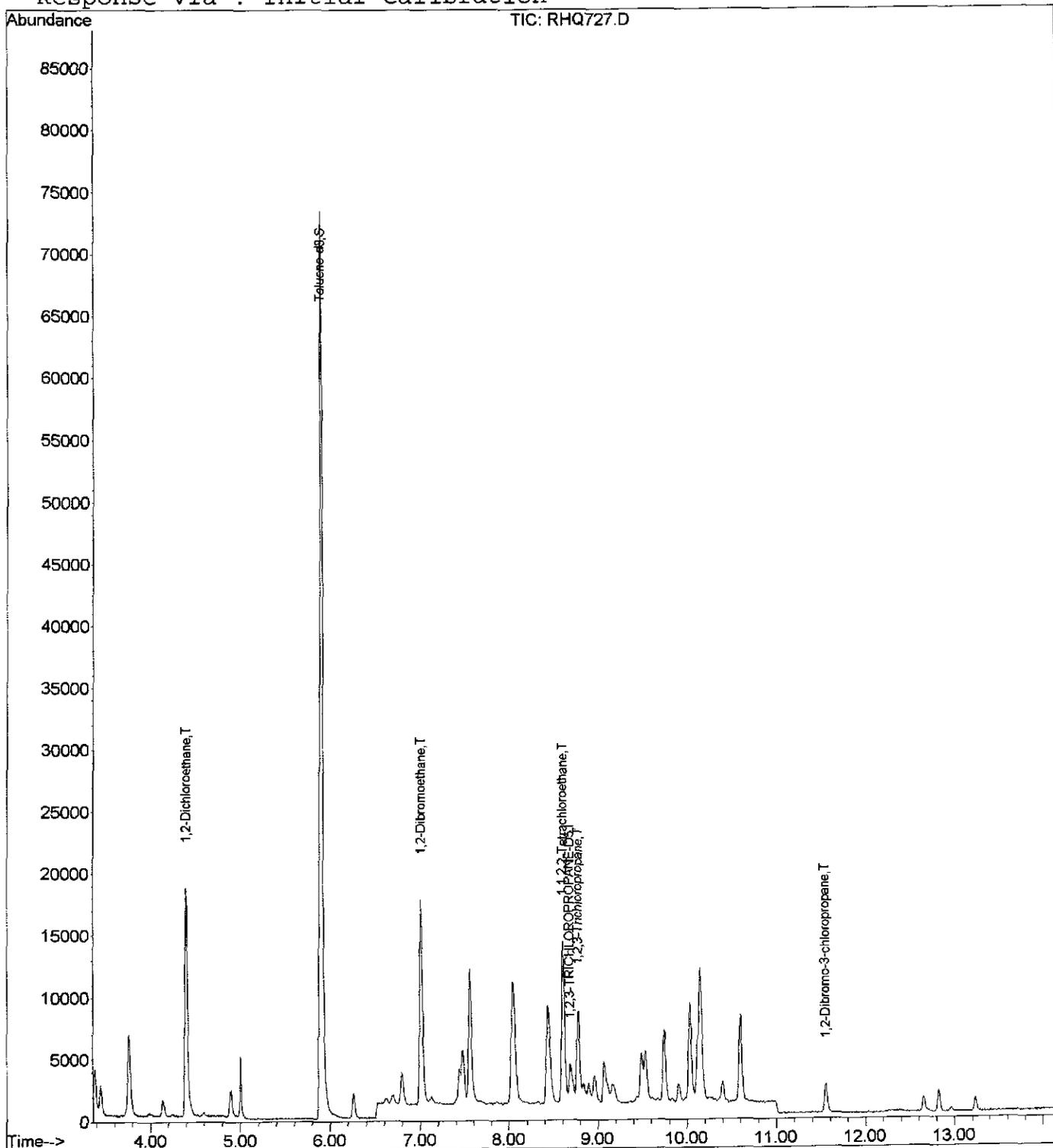
Quantitation Report

Data File : D:\HPCHEM\1\DATA\12H31\RHQ727.D  
Acq On : 31 Aug 2012 8:13 am  
Sample : CVO05G2816  
Misc : 100ppt  
MS Integration Params: 524INT.P  
Quant Time: Aug 31 9:31 2012

Vial: 2  
Operator: SD  
Inst : T005  
Multiplr: 1.00

Quant Results File: VO05G28.RE

Method : D:\HPCHEM\1\METHODS\VO05G28.M (RTE Integrator)  
Title : METHOD 8260 SIM  
Last Update : Mon Aug 01 13:00:43 2011  
Response via : Initial Calibration



# **ANALYTICAL LOGS**



# ANALYSIS LOG FOR VOLATILES

SOP  EMAX-8260 Rev.No.6  EMAX-524.2 Rev.No.5  EMAX-624 Rev.No.2  EMAX-8260SIM Rev.No.0  EMAX-1CPSIM Rev.No.1  EMAX-M8260SIM Rev.No.0

Start Date: 7/25/11  5-mL Purge  10-mL Purge  25-mL Purge Book # A05 -057

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix		Notes	Instrument No.	05
					W	S			
01	RcR290	RFBASE 10	0.5mL	0.1A	N/A	N/A	6:29pm		
02	291	RINSE							
03	292	V005E281	0.5mL				5ppb		
04	293	2	0.5mL				10		
05	294	3	0.5mL				20		
06	295	4	0.5mL				50		
07	296	5	0.5mL				100		
08	297	6	0.5mL				200		
09	298	7	0.5mL				400		
10	299	8	0.5mL				1000		
11	300	RINSE							
12	301								
13	302	V005E2801	0.5mL				200ppb		
14	303	RINSE							
15	304	200	0.5mL				10ppb Total dS 2.5ppb SIM		
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									

BATCH V005E285

Date File Folder 11628

Electronic Data Archival  
Location HPCHEM\_V00A/T005  
Date

Comments: \* : variables, see calibration level

Analyzed By: DM  
Date Disposed: 7/26/11



# ANALYSIS LOG FOR VOLATILES

SOP  EMAX-8260 Rev.No. 8  EMAX-524.2 Rev.No. 7  EMAX-624 Rev.No. 4  EMAX-8260SIM Rev.No. 1  EMAX-TCP SIM Rev.No. 2  EMAX-M8260SIM Rev.No. 0

Start Date: 8/31/12  5-mL Purge  10-mL Purge  25-mL Purge

Book # A05 -060

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix			Notes	Instrument No.	05
					pH <2	W	Cl <5ppm			
01	241724	20005H074	0.52L					6/4/12	7/28/11	05
02	227	CV00502876	ml						4007028	
03	728	V005H074L	↓						STANDARDS	
04	729	↓ C								
05	730	R1A08								
06	731	V005H07B	25ml							
07	732	12H184-01		1.0	✓					
08	733	-02			✓					
09	734	-07			✓					
10	735	-03M			✓					
11	736	-03S			✓					
12	737	-04			✓					
13	738	-05			✓					
14	739	-06			✓					
15	740	-07			✓					
16	741	12H220-01			✓		100X		12H03	
17	742	-02			✓		100X (MATTING), 100X (0.00X)		Electronic Data Archival	
18	743	-03			✓		50X		Location	Date
19	744	-04			✓		1000X		HPCHEM_VDA/TOOS	
20	745	12H221-02			✓		c/o, RA+10X		Comments:	
21	746	12H176-10R			✓		c/o, RR			
22	747	↓ -06R			✓		↓			
23	748	253 R1A08			✓		c 250X			
24										
25										
26										
27										
28										
29										
30										

BATCH CV00502876

Analyzed By: 100  
 Date Disposed: 8/24/12  
 Disposed By: 100

# Injection Log

Directory: D:\HPCHEM\1\DATA\12H31

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	RHQ726.D	1.	BFB05H34	T/CHK	31 Aug 2012 C
2	2	RHQ727.D	1.	CVO05G2816	100ppt	31 Aug 2012 C
3	3	RHQ728.D	1.	VO05H34L	100ppt	31 Aug 2012 C
4	4	RHQ729.D	1.	VO05H34C	100ppt	31 Aug 2012 C
5	5	RHQ730.D	1.	RINSE	BLANK	31 Aug 2012 C
6	6	RHQ731.D	1.	VO05H34B	BLANK	31 Aug 2012 1
7	7	RHQ732.D	1.	12H184-01	25mL DF=1.0	31 Aug 2012 1
8	8	RHQ733.D	1.	12H184-02	25mL DF=1.0	31 Aug 2012 1
9	9	RHQ734.D	1.	12H184-03	25mL DF=1.0	31 Aug 2012 1
10	10	RHQ735.D	1.	12H184-03M	25mL DF=1.0	31 Aug 2012 1
11	11	RHQ736.D	1.	12H184-03S	25mL DF=1.0	31 Aug 2012 1
12	12	RHQ737.D	1.	12H184-04	25mL DF=1.0	31 Aug 2012 1
13	13	RHQ738.D	1.	12H184-05	25mL DF=1.0	31 Aug 2012 1
14	14	RHQ739.D	1.	12H184-06	25mL DF=1.0	31 Aug 2012 1
15	15	RHQ740.D	1.	12H184-07	25mL DF=1.0	31 Aug 2012 1
16	16	RHQ741.D	1.	12H220-01	25mL DF=1.0	31 Aug 2012 1
17	17	RHQ742.D	1.	12H220-02	25mL DF=1.0	31 Aug 2012 1
18	18	RHQ743.D	1.	12H220-03	25mL DF=1.0	31 Aug 2012 1
19	19	RHQ744.D	1.	12H220-04	25mL DF=1.0	31 Aug 2012 1
20	20	RHQ745.D	1.	12H221-02	25mL DF=1.0	31 Aug 2012 1
21	21	RHQ746.D	1.	12H176-10R	25mL DF=1.0	31 Aug 2012 1
22	22	RHQ747.D	1.	12H176-06R	25mL DF=1.0	31 Aug 2012 1
23	23	RHQ748.D	1.	RINSE	DF=1.0	31 Aug 2012 1
24	24	RHQ749.D	1.	DRY PURGE	DF=1.0	31 Aug 2012 1
25	25	RHQ750.D	1.	DRY PURGE	DF=1.0	31 Aug 2012 2
26	26	RHQ751.D	1.	DRY PURGE	DF=1.0	31 Aug 2012 2
27	27	RHQ752.D	1.	DRY PURGE	DF=1.0	31 Aug 2012 2
28	28	RHQ753.D	1.	DRY PURGE	DF=1.0	31 Aug 2012 2

LABORATORY REPORT FOR

ECO & ASSOCIATES, INC.

B & B, MONTHLY CITY WELL SAMPLING

METHOD 8151A  
HERBICIDES

SDG#: 12H184

CASE NARRATIVE

Client : ECO & ASSOCIATES, INC.  
Project : B & B, MONTHLY CITY WELL SAMPLING  
SDG : 12H184

METHOD 8151A  
HERBICIDES

A total of seven (7) water samples were received on 08/27/12 for Chlorinated Herbicides analysis, Method 8151A in accordance with Department of Defense Quality Systems Manual for Environmental Laboratories, Version 4.2 and QAPP09.

**Holding Time**  
Samples were analyzed within the prescribed holding time.

**Calibration**  
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried on a frequency specified by the project. All calibration requirements were within acceptance criteria. Refer to calibration summary forms of ICAL, ICV and CCV for details.

**Method Blank**  
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Results were compliant to project requirement.

**Lab Control Sample**  
A set of LCS/LCD was analyzed with the samples in this SDG. Percent recoveries for HEH006WL/C were within QC limits.

**Matrix QC Sample**  
A set of MS/MSD was analyzed with the samples in this SDG. Percent recoveries for H184-03M/S were within project QC limits.

**Surrogate**  
Surrogate was added on QC and field samples. Surrogate recoveries were within project QC limits. Refer to sample result forms for details.

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



# **SAMPLE RESULTS**

METHOD 8151A  
HERBICIDES

```

=====
Client      : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project     : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.   : 12H184                          Date Extracted: 08/29/12 11:45
Sample ID   : 08-27-12-CW-1                   Date Analyzed: 08/30/12 22:47
Lab Samp ID: H184-01                          Dilution Factor: 1
Lab File ID: WH30020A                         Matrix          : WATER
Ext Btch ID: HEH006W                          % Moisture     : NA
Calib. Ref.: WH30012A                         Instrument ID   : GCT016
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
DINOSEB	(ND) ND	0.40	0.20 0.20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(8.150) 8.094	10.00	(81.5) 80.9	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client      : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project     : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.   : 12H184                          Date Extracted: 08/29/12 11:45
Sample ID   : 08-27-12-CW-5                   Date Analyzed: 08/30/12 23:07
Lab Samp ID: H184-02                          Dilution Factor: 1
Lab File ID: WH30021A                         Matrix          : WATER
Ext Btch ID: HEH006W                          % Moisture     : NA
Calib. Ref.: WH30012A                         Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
DINOSB	(ND) ND	0.40	0.20 0.20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	7.904 (7.921)	10.00	79.0 (79.2)	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

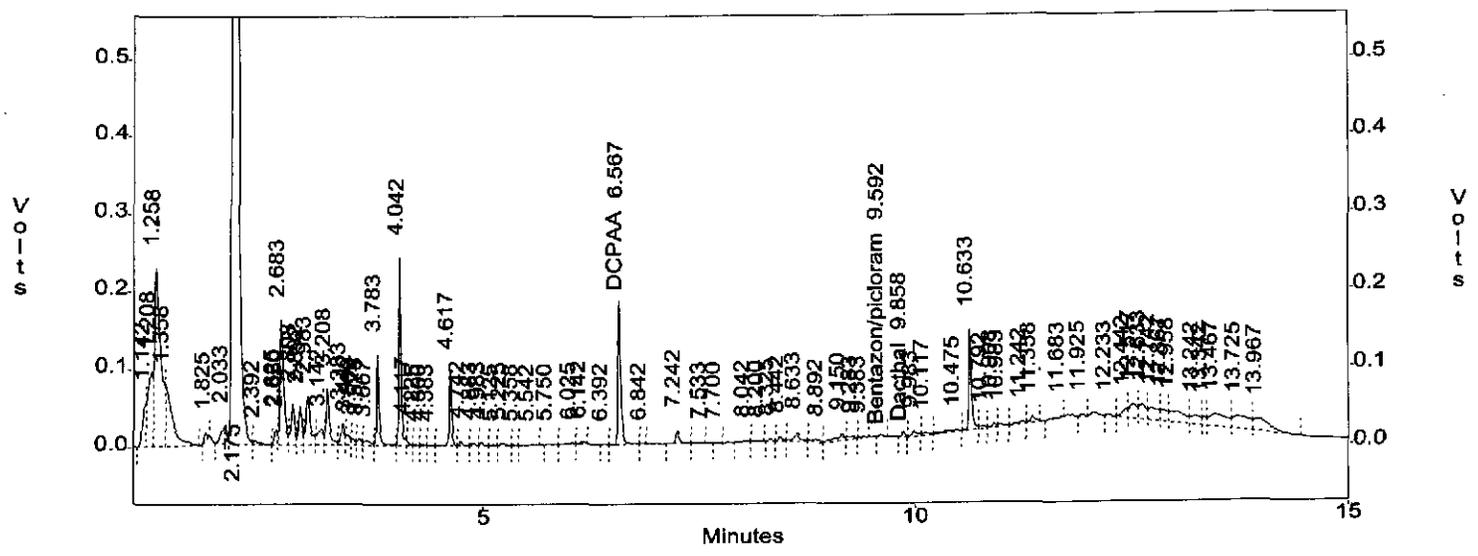
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.021  
 Method : c:\ezchrom\methods\he16h30.met  
 Sample ID : H184-02  
 Acquired : Aug 30, 2012 23:07:58  
 Printed : Aug 31, 2012 11:52:32  
 User : Supakit

Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	0.0	0.00	0.00	--
3,5 Dichlorobenzoic	5.825	0.0	0.00	0.00	--
4-Nitrophenol	6.358	0.0	0.00	0.00	--
DCPAA	6.567	413723.0	523.45	790.37	VV
Dicamba	6.733	0.0	0.00	0.00	--
MCPPP	6.933	0.0	0.00	0.00	--
MCPA	7.075	0.0	0.00	0.00	--
DCP	7.425	0.0	0.00	0.00	--
2,4-D	7.633	0.0	0.00	0.00	--
Pentachlorophenol	7.842	0.0	0.00	0.00	--
Silvex	8.342	0.0	0.00	0.00	--
Chloramben	8.458	0.0	0.00	0.00	--
2,4,5-T	8.558	0.0	0.00	0.00	--
2,4-DB	8.967	0.0	0.00	0.00	--
Bentazon/picloram	9.592	7214.0	2079.53	3.47	BI
Dinoseb	9.683	0.0	0.00	0.00	--
Dacthal	9.858	17642.0	3862.33	4.57	BV
Acifluorfen	11.325	0.0	0.00	0.00	--

c:\ezchrom\chrom\wh30\wh30.021 -- Channel A



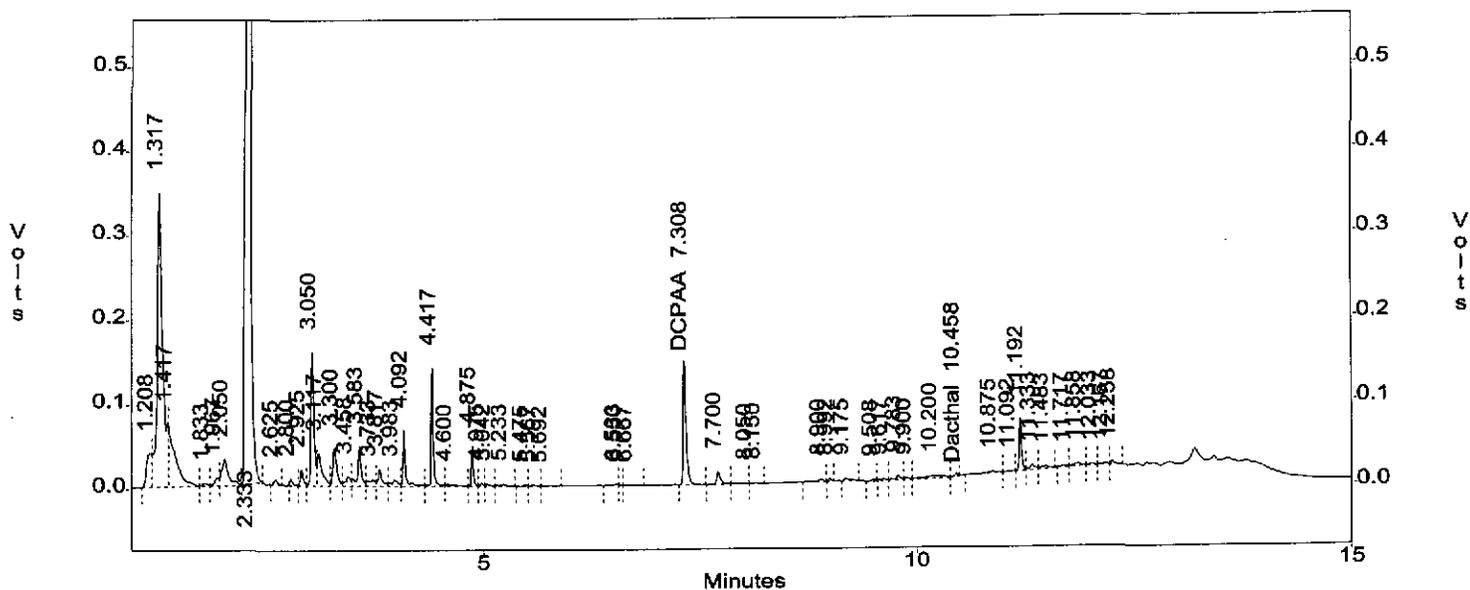
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.021  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : H184-02  
Acquired : Aug 30, 2012 23:07:58  
Printed : Aug 31, 2012 11:52:32  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	0.0	0.00	0.00	--
3,5 Dichlorobenzoic	6.292	0.0	0.00	0.00	--
4-Nitrophenol	6.842	0.0	0.00	0.00	--
DCPAA	7.308	349426.0	441.16	792.05	VV
Dicamba	7.492	0.0	0.00	0.00	--
MCPPP	7.600	0.0	0.00	0.00	--
MCPA	7.817	0.0	0.00	0.00	--
DCP	8.125	0.0	0.00	0.00	--
2,4-D	8.392	0.0	0.00	0.00	--
Pentachlorophenol	8.742	0.0	0.00	0.00	--
Silvex	9.033	0.0	0.00	0.00	--
2,4,5-T	9.317	0.0	0.00	0.00	--
Chloramben	9.350	0.0	0.00	0.00	--
2,4-DB	9.667	0.0	0.00	0.00	--
Dinoseb	9.875	0.0	0.00	0.00	--
Bentazon	10.233	0.0	0.00	0.00	--
Dacthal	10.458	9000.0	2450.54	3.67	Vx
Picloram	10.508	0.0	0.00	0.00	--
Acifluorfen	11.675	0.0	0.00	0.00	--

c:\ezchrom\chrom\wh30\wh30.021 -- Channel B



METHOD 8151A  
HERBICIDES

```

=====
Client       : ECO & ASSOCIATES, INC.
Project      : B & B, MONTHLY CITY WELL SAMPLING
Batch No.    : 12H184
Sample ID    : 08-27-12-CW-6
Lab Samp ID  : H184-03
Lab File ID  : WH30018A
Ext Btch ID  : MEH006W
Calib. Ref. : WH30012A

Date Collected: 08/27/12
Date Received: 08/27/12
Date Extracted: 08/29/12 11:45
Date Analyzed: 08/30/12 22:07
Dilution Factor: 1
Matrix       : WATER
% Moisture   : NA
Instrument ID : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
DINOSEB	(ND) ND	0.40	0.20 0.20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	8.281 (8.437)	10.00	82.8 (84.4)	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client       : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project      : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.    : 12H184                          Date Extracted: 08/29/12 11:45
Sample ID    : 08-27-12-CW-8                   Date Analyzed: 08/30/12 23:28
Lab Samp ID  : H184-04                         Dilution Factor: 1
Lab File ID  : WH30022A                       Matrix          : WATER
Ext Btch ID  : HEH006W                        % Moisture      : NA
Calib. Ref.  : WH30012A                       Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
DINOSEB	(ND) ND	0.40	0.20 0.20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(8.933) 8.761	10.00	(89.3) 87.6	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client       : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project      : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.    : 12H184                          Date Extracted: 08/29/12 11:45
Sample ID    : 08-27-12-CW-9                   Date Analyzed: 08/31/12 00:28
Lab Samp ID  : H184-05                         Dilution Factor: 1
Lab File ID  : WH30025A                       Matrix          : WATER
Ext Btch ID  : HEH006W                        % Moisture      : NA
Calib. Ref.  : WH30024A                       Instrument ID    : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
DINOSEB	(ND) ND	0.40	0.20 0.20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(7.666) 7.552	10.00	(76.7) 75.5	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client       : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project      : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.    : 12H184                          Date Extracted: 08/29/12 11:45
Sample ID    : 08-27-12-CW-10                 Date Analyzed: 08/31/12 00:48
Lab Samp ID  : H184-06                        Dilution Factor: 1
Lab File ID  : WH30026A                      Matrix          : WATER
Ext Btch ID  : HEH006W                       % Moisture      : NA
Calib. Ref.  : WH30024A                      Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
DINOSEB	(ND) ND	0.40	0.20 0.20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(8.436) 8.299	10.00	(84.4) 83.0	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client       : ECO & ASSOCIATES, INC.           Date Collected: 08/27/12
Project      : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/27/12
Batch No.    : 12H184                          Date Extracted: 08/29/12 11:45
Sample ID    : 08-27-12-FDUP-1                 Date Analyzed: 08/31/12 01:08
Lab Samp ID  : H184-07                         Dilution Factor: 1
Lab File ID  : WH30027A                       Matrix          : WATER
Ext Btch ID  : HEH006W                       % Moisture      : NA
Calib. Ref.  : WH30024A                       Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
DINOSEB	(ND) ND	0.40	0.20 0.20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(8.475) 8.373	10.00	(84.7) 83.7	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

# **QC SUMMARIES**

METHOD 8151A  
HERBICIDES

```

=====
Client      : ECO & ASSOCIATES, INC.           Date Collected: NA
Project     : B & B, MONTHLY CITY WELL SAMPLING Date Received: 08/29/12
Batch No.   : 12H184                          Date Extracted: 08/29/12 11:45
Sample ID   : MBLK1W                          Date Analyzed: 08/30/12 20:26
Lab Samp ID: HEH006WB                        Dilution Factor: 1
Lab File ID: WH30013A                        Matrix          : WATER
Ext Btch ID: HEH006W                         % Moisture     : NA
Calib. Ref.: WH30012A                        Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
DINOSEB	(ND) ND	0.40	0.20 0.20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	8.737 (8.841)	10.00	87.4 (88.4)	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: ECO & ASSOCIATES, INC.  
PROJECT: B & B, MONTHLY CITY WELL SAMPLING  
BATCH NO.: 12H184  
METHOD: METHOD 8151A

MATRIX: WATER  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HEH006WL HEH006WC  
LAB FILE ID: WH30014A WH30015A  
DATE EXTRACTED: 08/29/1211:45 08/29/1211:45  
DATE ANALYZED: 08/30/1220:47 08/30/1221:07  
PREP. BATCH: HEH006W  
CALIB. REF: WH30012A WH30012A

DATE COLLECTED: NA  
DATE RECEIVED: 08/29/12

% MOISTURE: NA

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Dinoseb	(ND) ND	1.00	0.312J (0.259J)	31 (26)	1.00	0.219J (0.214J)	22 (21)	35* (19)	20-100	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
2,4-DCPAA	10.00	8.259 (8.261)	82.6 (82.6)	10.00	7.655 (7.754)	76.6 (77.5)	40-140

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: ECO & ASSOCIATES, INC.  
PROJECT: B & B, MONTHLY CITY WELL SAMPLING  
BATCH NO.: 12H184  
METHOD: METHOD 8151A

MATRIX: WATER  
DILUTION FACTOR: 1 1  
SAMPLE ID: 08-27-12-CW-6  
LAB SAMP ID: H184-03M H184-03S  
LAB FILE ID: WH30018A WH30016A WH30017A  
DATE EXTRACTED: 08/29/1211:45 08/29/1211:45 08/29/1211:45  
DATE ANALYZED: 08/30/1222:07 08/30/1221:27 08/30/1221:47  
PREP. BATCH: HEH006W HEH006W  
CALIB. REF: WH30012A WH30012A WH30012A

DATE COLLECTED: 08/27/12  
DATE RECEIVED: 08/27/12

ACCESSION:

PARAMETER	SAMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Dinoseb	(ND) ND	1.00	(0.293J) 0.214J	(29) 21	1.00	(0.342J) 0.299J	(34) 30	(15) 33*	20-100	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
2,4-DCPAA	10.00	8.357 (8.416)	83.6 (84.2)	10.00	9.073 (9.141)	90.7 (91.4)	40-140

# QC DATA

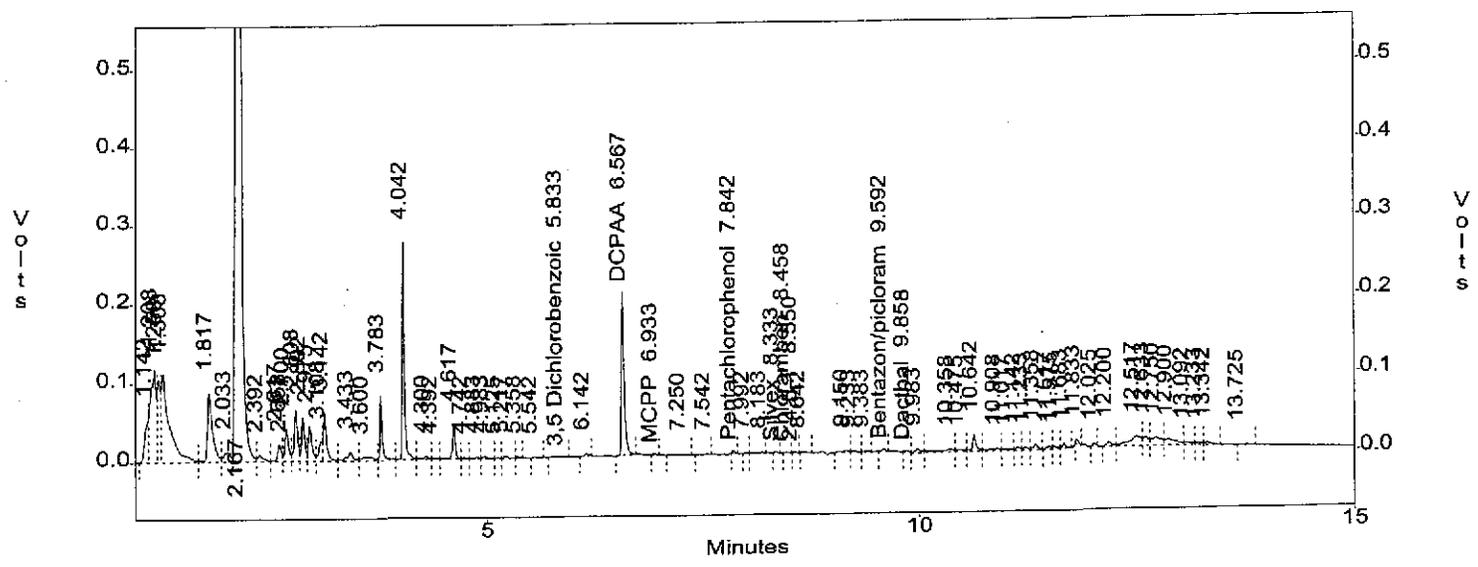
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.013  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HEH006WB  
Acquired : Aug 30, 2012 20:26:57  
Printed : Sep 05, 2012 16:38:34  
User : Supakit

Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	0.0	0.00	0.00	--
3,5 Dichlorobenzoic	5.833	5541.0	1136.62	4.87	BV
4-Nitrophenol	6.358	0.0	0.00	0.00	--
DCPAA	6.567	457321.0	523.45	873.66	BI
Dicamba	6.733	0.0	0.00	0.00	--
MCPP	6.933	4400.0	3.93	1119.30	BV
MCPA	7.075	0.0	0.00	0.00	--
DCP	7.425	0.0	0.00	0.00	--
2,4-D	7.633	0.0	0.00	0.00	--
Pentachlorophenol	7.842	6419.0	7843.35	0.82	BI
Silvex	8.333	4288.0	3292.53	1.30	BI
Chloramben	8.458	2310.0	2404.82	0.96	BI
2,4,5-T	8.550	3029.0	3954.31	0.77	BI
2,4-DB	8.967	0.0	0.00	0.00	--
Bentazon/picloram	9.592	7705.0	2079.53	3.71	BI
Dinoseb	9.683	0.0	0.00	0.00	--
Dacthal	9.858	7294.0	3862.33	1.89	BV
Acifluorfen	11.325	0.0	0.00	0.00	--

c:\ezchrom\chrom\wh30\wh30.013 -- Channel A



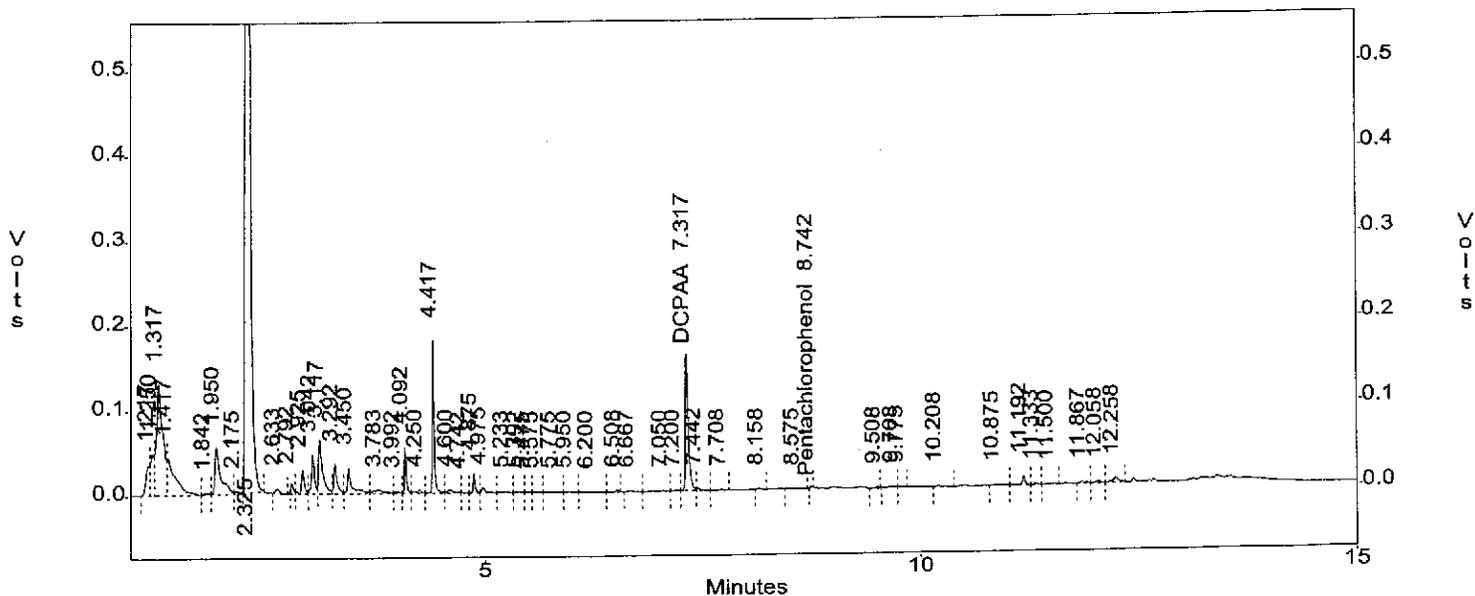
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.013  
 Method : c:\ezchrom\methods\he16h30.met  
 Sample ID : HEH006WB  
 Acquired : Aug 30, 2012 20:26:57  
 Printed : Sep 05, 2012 16:38:34  
 User : Supakit

Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	0.0	0.00	0.00	--
3,5 Dichlorobenzoic	6.292	0.0	0.00	0.00	--
4-Nitrophenol	6.842	0.0	0.00	0.00	--
DCPAA	7.317	390032.0	441.16	884.10	SS
Dicamba	7.492	0.0	0.00	0.00	--
MCPP	7.600	0.0	0.00	0.00	--
MCPA	7.817	0.0	0.00	0.00	--
DCP	8.125	0.0	0.00	0.00	--
2,4-D	8.392	0.0	0.00	0.00	--
Pentachlorophenol	8.742	2113.0	6174.46	0.34	BI
Silvex	9.033	0.0	0.00	0.00	--
2,4,5-T	9.317	0.0	0.00	0.00	--
Chloramben	9.350	0.0	0.00	0.00	--
2,4-DB	9.667	0.0	0.00	0.00	--
Dinoseb	9.875	0.0	0.00	0.00	--
Bentazon	10.233	0.0	0.00	0.00	--
Dacthal	10.467	0.0	0.00	0.00	--
Picloram	10.508	0.0	0.00	0.00	--
Acifluorfen	11.675	0.0	0.00	0.00	--

c:\ezchrom\chrom\wh30\wh30.013 -- Channel B



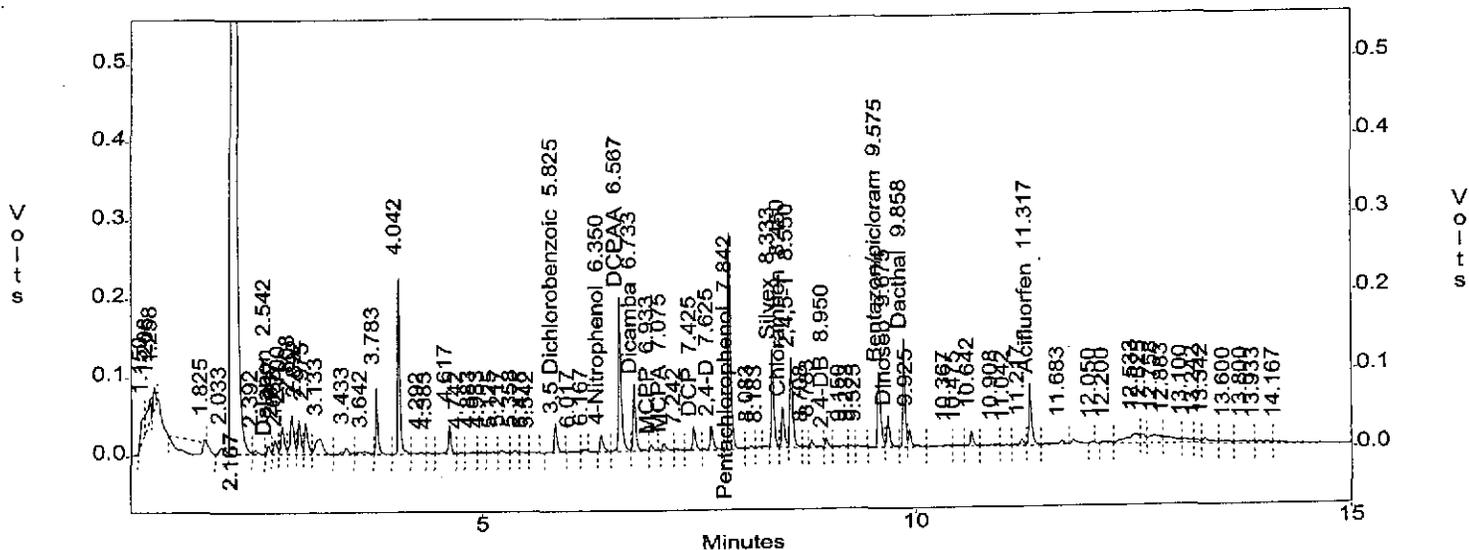
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.014  
 Method : c:\ezchrom\methods\he16h30.met  
 Sample ID : HEH006WL  
 Acquired : Aug 30, 2012 20:47:03  
 Printed : Aug 31, 2012 10:30:10  
 User : Supakit

Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	27388.0	1068.05	25.64	VV
3,5 Dichlorobenzoic	5.825	81491.0	1136.62	71.70	BV
4-Nitrophenol	6.350	52774.0	565.13	93.38	BV
DCPAA	6.567	432308.0	523.45	825.87	VV
Dicamba	6.733	182483.0	2283.43	79.92	VV
MCPP	6.933	20402.0	3.93	5189.99	Vx
MCPA	7.075	31226.0	7.04	4438.34	VV
DCP	7.425	71599.0	802.74	89.19	VV
2,4-D	7.625	83944.0	989.51	84.83	VV
Pentachlorophenol	7.842	598472.0	7843.35	76.30	VV
Silvex	8.333	238847.0	3292.53	72.54	BV
Chloramben	8.450	116439.0	2404.82	48.42	VV
2,4,5-T	8.550	259120.0	3954.31	65.53	VV
2,4-DB	8.950	31152.0	566.24	55.02	VV
Bentazon/picloram	9.575	247257.0	2079.53	118.90	BV
Dinoseb	9.675	88102.0	2823.13	31.21	VV
Dacthal	9.858	248239.0	3862.33	64.27	VS
Acifluorfen	11.317	169852.0	2657.39	63.92	VV

c:\ezchrom\chrom\wh30\wh30.014 -- Channel A



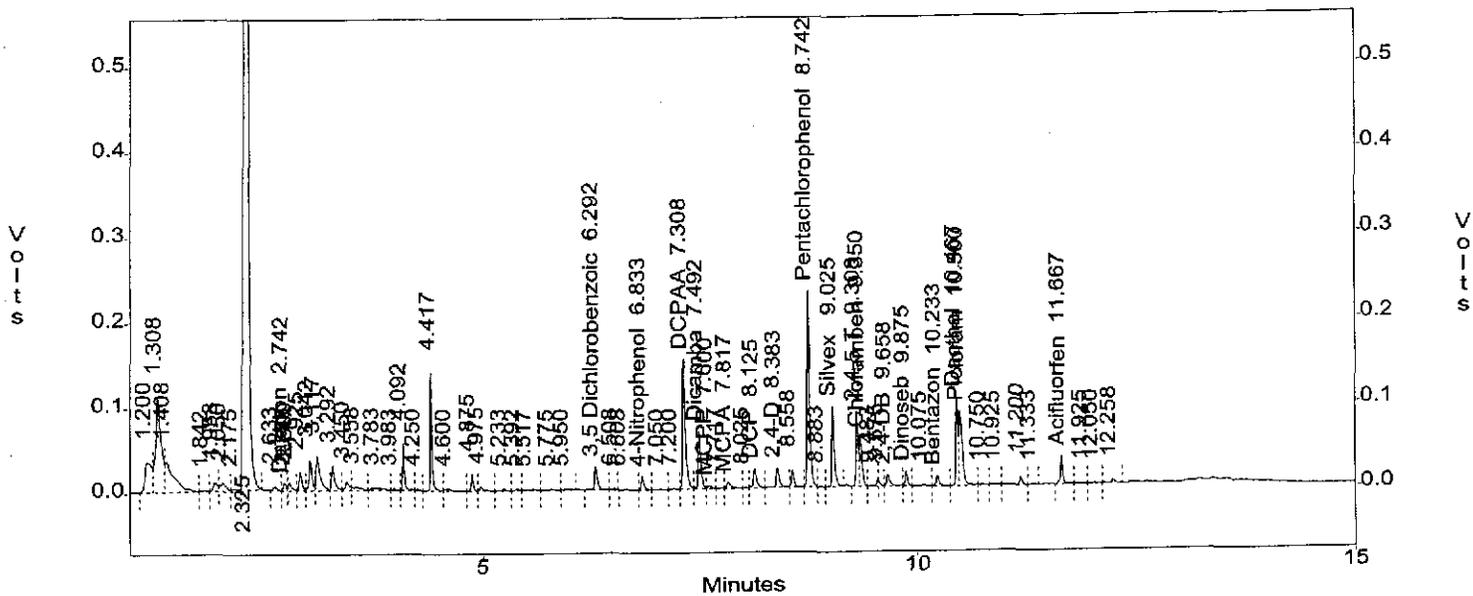
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.014  
 Method : c:\ezchrom\methods\he16h30.met  
 Sample ID : HEH006WL  
 Acquired : Aug 30, 2012 20:47:03  
 Printed : Aug 31, 2012 10:30:10  
 User : Supakit

Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	21374.0	742.79	28.78	VS
3,5 Dichlorobenzoic	6.292	65928.0	883.83	74.59	VV
4-Nitrophenol	6.833	35576.0	334.78	106.27	VV
DCPAA	7.308	364439.0	441.16	826.08	VV
Dicamba	7.492	144516.0	1770.58	81.62	VV
MCPP	7.600	11743.0	2.90	4046.79	VV
MCPA	7.817	25025.0	5.37	4662.18	VV
DCP	8.125	58217.0	660.40	88.15	xV
2,4-D	8.383	58474.0	753.13	77.64	VV
Pentachlorophenol	8.742	483540.0	6174.46	78.31	VV
Silvex	9.025	191668.0	2503.01	76.57	VV
2,4,5-T	9.308	157354.0	1904.03	82.64	Sx
Chloramben	9.350	125780.0	2691.20	46.74	xV
2,4-DB	9.658	46211.0	434.49	106.36	SV
Dinoseb	9.875	34786.0	1340.73	25.95	VV
Bentazon	10.233	34865.0	310.67	112.23	VV
Dacthal	10.467	186835.0	2450.54	76.24	Vx
Picloram	10.500	249528.0	3772.71	66.14	xV
Acifluorfen	11.667	62985.0	1369.06	46.01	BV

c:\ezchrom\chrom\wh30\wh30.014 -- Channel B



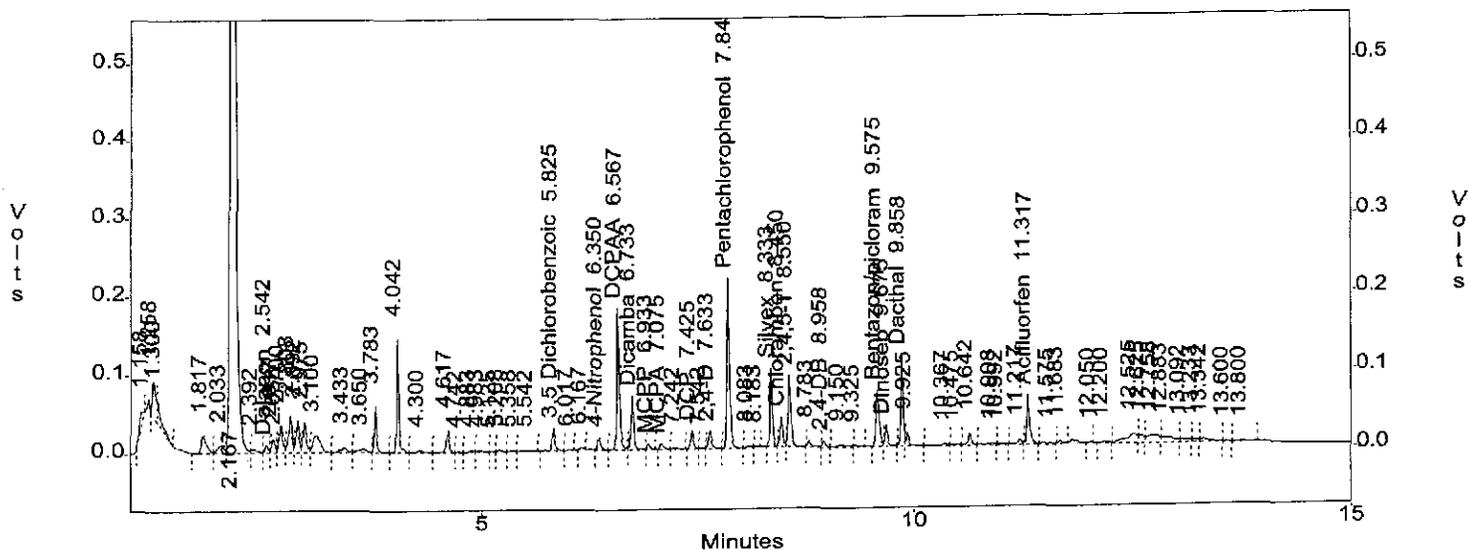
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.015  
 Method : c:\ezchrom\methods\he16h30.met  
 Sample ID : HEH006WC  
 Acquired : Aug 30, 2012 21:07:10  
 Printed : Aug 31, 2012 10:36:09  
 User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc (ppb)	ICODE
Dalapon	2.542	23783.0	1068.05	22.27	VV
3,5 Dichlorobenzoic	5.825	65383.0	1136.62	57.52	BV
4-Nitrophenol	6.350	42680.0	565.13	75.52	BV
DCPAA	6.567	400718.0	523.45	765.53	VV
Dicamba	6.733	151421.0	2283.43	66.31	VV
M CPP	6.933	17977.0	3.93	4573.10	Vx
MCPA	7.075	22404.0	7.04	3184.41	VV
DCP	7.425	53962.0	802.74	67.22	BV
2,4-D	7.633	63235.0	989.51	63.91	VV
Pentachlorophenol	7.842	472020.0	7843.35	60.18	VV
Silvex	8.333	194982.0	3292.53	59.22	BV
Chloramben	8.450	89211.0	2404.82	37.10	VV
2,4,5-T	8.550	215377.0	3954.31	54.47	VV
2,4-DB	8.958	25971.0	566.24	45.87	VV
Bentazon/picloram	9.575	188110.0	2079.53	90.46	BV
Dinoseb	9.675	61938.0	2823.13	21.94	VV
Dacthal	9.858	210501.0	3862.33	54.50	VS
Acifluorfen	11.317	142490.0	2657.39	53.62	VV

c:\ezchrom\chrom\wh30\wh30.015 -- Channel A



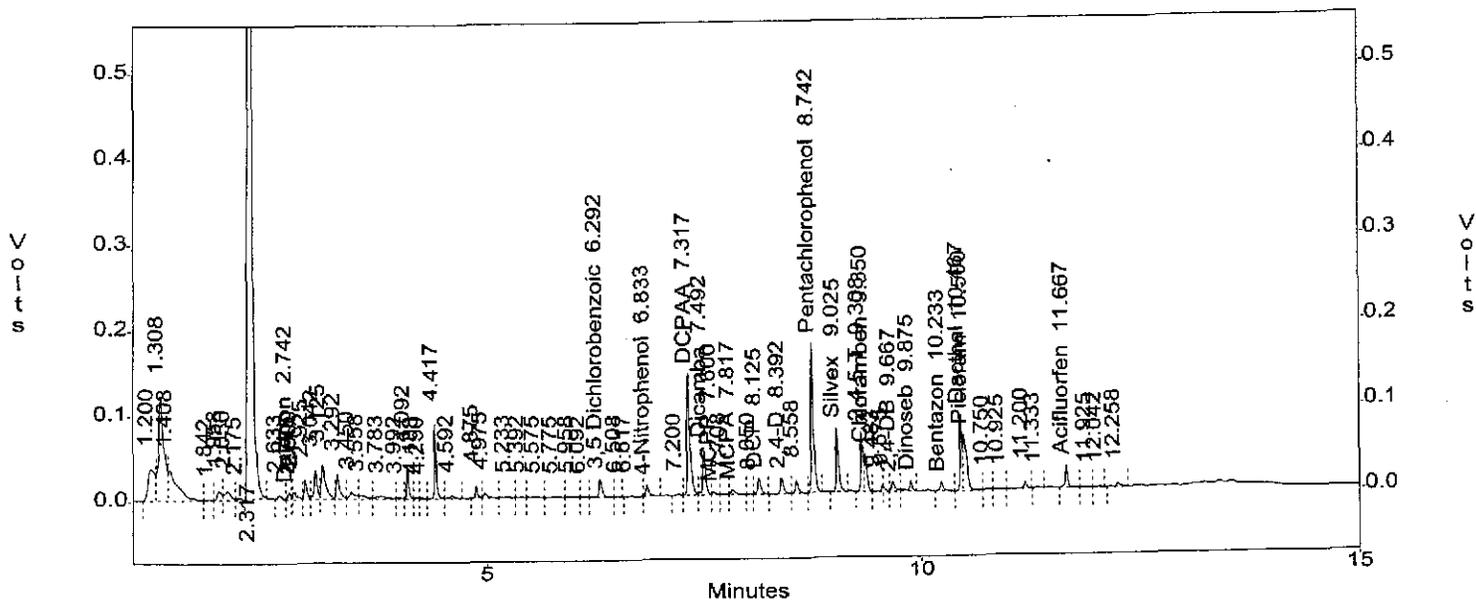
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.015  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HEH006WC  
Acquired : Aug 30, 2012 21:07:10  
Printed : Aug 31, 2012 10:36:09  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	17821.0	742.79	23.99	VS
3,5 Dichlorobenzoic	6.292	52547.0	883.83	59.45	VV
4-Nitrophenol	6.833	29163.0	334.78	87.11	VB
DCPAA	7.317	342062.0	441.16	775.36	VV
Dicamba	7.492	120919.0	1770.58	68.29	VV
MCPP	7.600	9335.0	2.90	3216.97	VV
MCPA	7.817	21805.0	5.37	4062.29	VV
DCP	8.125	48848.0	660.40	73.97	xV
2,4-D	8.392	45554.0	753.13	60.49	VV
Pentachlorophenol	8.742	371243.0	6174.46	60.13	VV
Silvex	9.025	153636.0	2503.01	61.38	VV
2,4,5-T	9.308	124268.0	1904.03	65.27	Sx
Chloramben	9.350	100071.0	2691.20	37.18	xV
2,4-DB	9.667	30023.0	434.49	69.10	Sf
Dinoseb	9.875	28637.0	1340.73	21.36	fV
Bentazon	10.233	26741.0	310.67	86.08	SV
Dacthal	10.467	154769.0	2450.54	63.16	Vx
Picloram	10.500	195541.0	3772.71	51.83	xV
Acifluorfen	11.667	52124.0	1369.06	38.07	BV

c:\ezchrom\chrom\wh30\wh30.015 -- Channel B



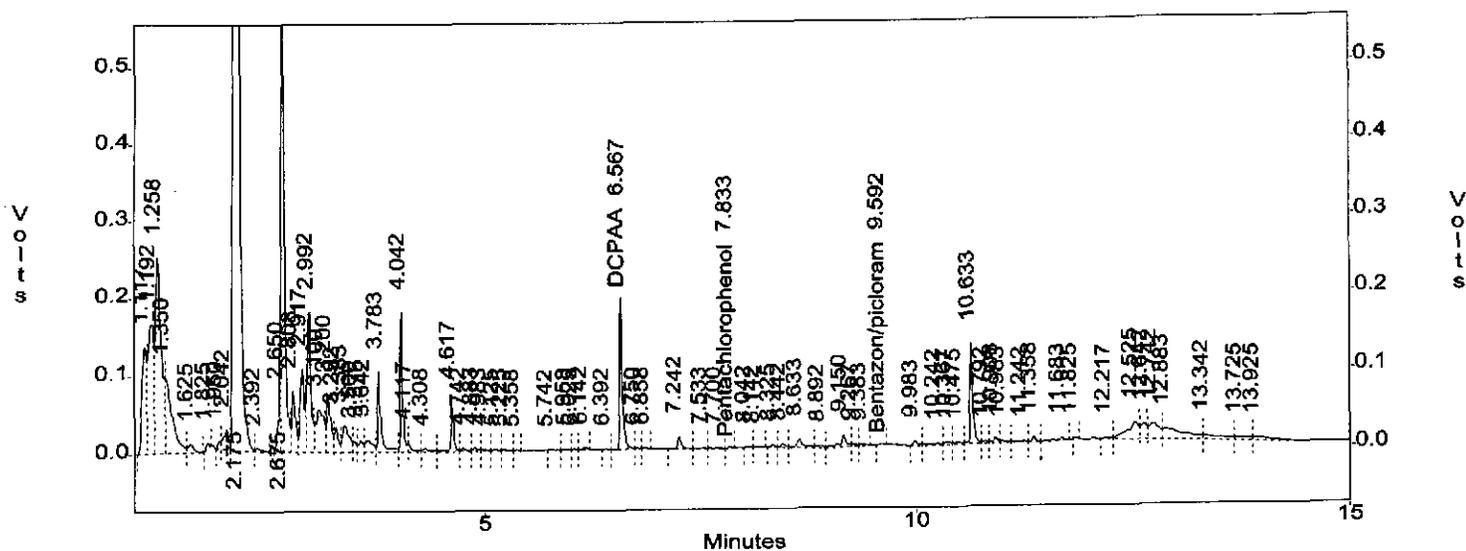
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.018  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : H184-03  
Acquired : Aug 30, 2012 22:07:28  
Printed : Aug 31, 2012 11:27:24  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	0.0	0.00	0.00	--
3,5 Dichlorobenzoic	5.825	0.0	0.00	0.00	--
4-Nitrophenol	6.358	0.0	0.00	0.00	--
DCPAA	6.567	433497.0	523.45	828.15	VV
Dicamba	6.733	0.0	0.00	0.00	--
MCPP	6.933	0.0	0.00	0.00	--
MCPA	7.075	0.0	0.00	0.00	--
DCP	7.425	0.0	0.00	0.00	--
2,4-D	7.633	0.0	0.00	0.00	--
Pentachlorophenol	7.833	4491.0	7843.35	0.57	VI
Silvex	8.342	0.0	0.00	0.00	--
Chloramben	8.458	0.0	0.00	0.00	--
2,4,5-T	8.558	0.0	0.00	0.00	--
2,4-DB	8.967	0.0	0.00	0.00	--
Bentazon/picloram	9.592	4961.0	2079.53	2.39	BI
Dinoseb	9.683	0.0	0.00	0.00	--
Dacthal	9.858	0.0	0.00	0.00	--
Acifluorfen	11.325	0.0	0.00	0.00	--

c:\ezchrom\chrom\wh30\wh30.018 - Channel A



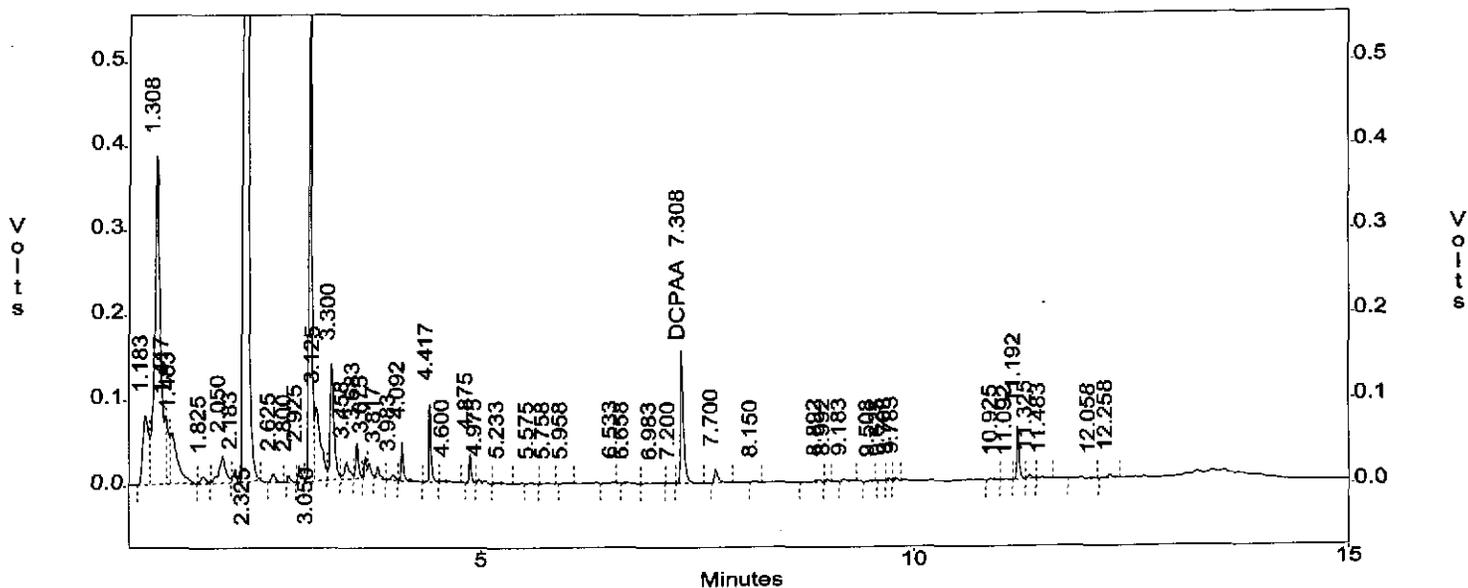
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.018  
Method : c:\ezchrom\methods\hel6h30.met  
Sample ID : H184-03  
Acquired : Aug 30, 2012 22:07:28  
Printed : Aug 31, 2012 11:27:24  
User : Supakit

## Channel B Results

Peak Name	RT (min)	Area	Average RF	ESTD Conc (ppb)	ICODE
Dalapon	2.742	0.0	0.00	0.00	--
3,5 Dichlorobenzoic	6.292	0.0	0.00	0.00	--
4-Nitrophenol	6.842	0.0	0.00	0.00	--
DCPAA	7.308	372231.0	441.16	843.75	VV
Dicamba	7.492	0.0	0.00	0.00	--
MCPPP	7.600	0.0	0.00	0.00	--
MCPA	7.817	0.0	0.00	0.00	--
DCP	8.125	0.0	0.00	0.00	--
2,4-D	8.392	0.0	0.00	0.00	--
Pentachlorophenol	8.742	0.0	0.00	0.00	--
Silvex	9.033	0.0	0.00	0.00	--
2,4,5-T	9.317	0.0	0.00	0.00	--
Chloramben	9.350	0.0	0.00	0.00	--
2,4-DB	9.667	0.0	0.00	0.00	--
Dinoseb	9.875	0.0	0.00	0.00	--
Bentazon	10.233	0.0	0.00	0.00	--
Dacthal	10.467	0.0	0.00	0.00	--
Picloram	10.508	0.0	0.00	0.00	--
Acifluorfen	11.675	0.0	0.00	0.00	--

c:\ezchrom\chrom\wh30\wh30.018 -- Channel B



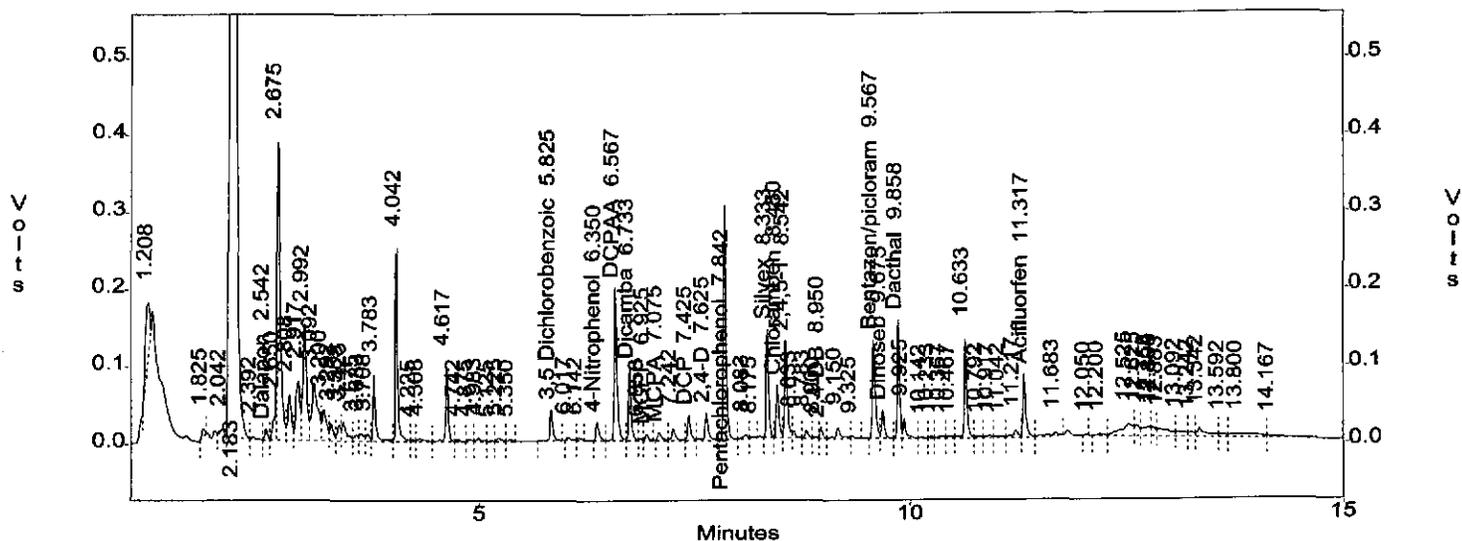
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.016  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : H184-03M  
Acquired : Aug 30, 2012 21:27:16  
Printed : Sep 06, 2012 16:18:01  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	32702.0	1068.05	30.62	VV
3,5 Dichlorobenzoic	5.825	89113.0	1136.62	78.40	BV
4-Nitrophenol	6.350	62188.0	565.13	110.04	BV
DCPAA	6.567	437453.0	523.45	835.70	VV
Dicamba	6.733	198913.0	2283.43	87.11	VV
MCPPP	6.925	22365.0	3.93	5689.35	Vx
MCPA	7.075	33937.0	7.04	4823.67	VV
DCP	7.425	77197.0	802.74	96.17	VV
2,4-D	7.625	98780.0	989.51	99.83	VV
Pentachlorophenol	7.842	665438.0	7843.35	84.84	VV
Silvex	8.333	270816.0	3292.53	82.25	BV
Chloramben	8.450	148214.0	2404.82	61.63	VV
2,4,5-T	8.542	284929.0	3954.31	72.06	VS
2,4-DB	8.950	31202.0	566.24	55.10	VV
Bentazon/picloram	9.567	306715.0	2079.53	147.49	BV
Dinoseb	9.675	82709.0	2823.13	29.30	VV
Dacthal	9.858	281410.0	3862.33	72.86	VS
Acifluorfen	11.317	178414.0	2657.39	67.14	VV

c:\ezchrom\chrom\wh30\wh30.016 -- Channel A



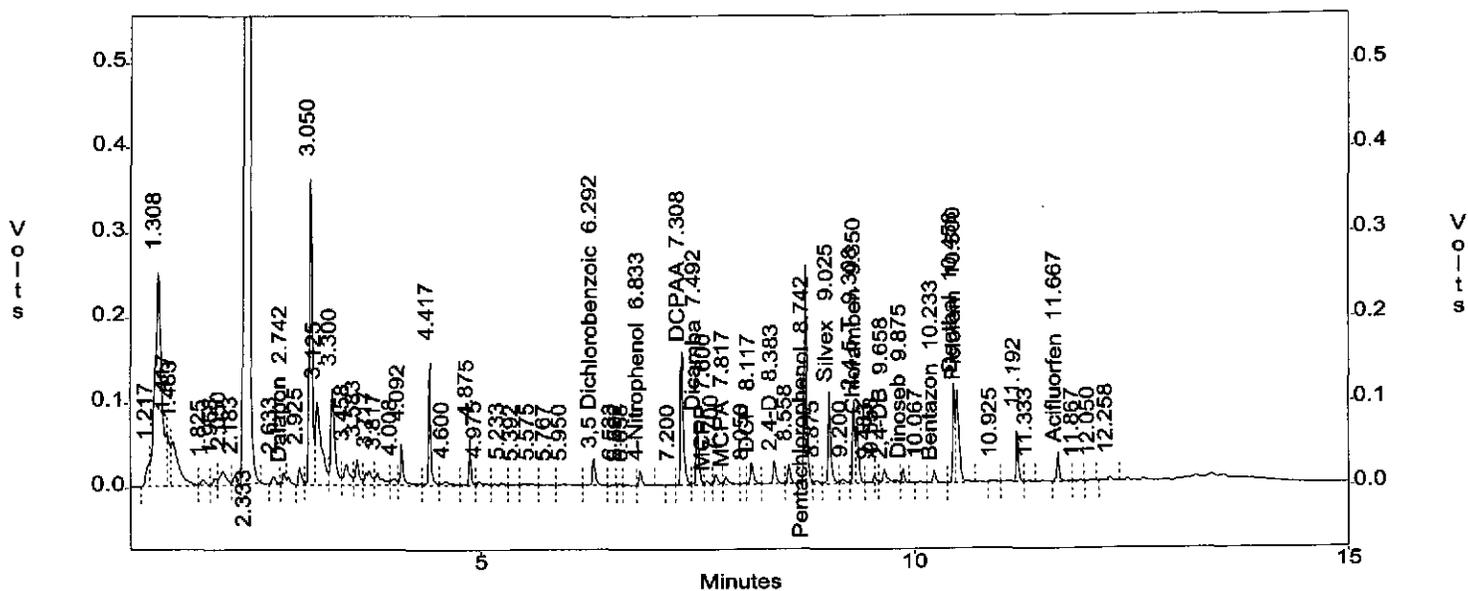
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.016  
Method : c:\ezchrom\methods\hel6h30.met  
Sample ID : H184-03M  
Acquired : Aug 30, 2012 21:27:16  
Printed : Sep 06, 2012 16:18:01  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc (ppb)	ICODE
Dalapon	2.742	20924.0	742.79	28.17	VS
3,5 Dichlorobenzoic	6.292	73207.0	883.83	82.83	VV
4-Nitrophenol	6.833	40319.0	334.78	120.44	VV
DCPAA	7.308	371269.0	441.16	841.57	SV
Dicamba	7.492	158208.0	1770.58	89.35	VV
MCPP	7.600	12790.0	2.90	4407.60	VV
MCPA	7.817	29391.0	5.37	5475.57	VV
DCP	8.117	67722.0	660.40	102.55	xV
2,4-D	8.383	64550.0	753.13	85.71	VV
Pentachlorophenol	8.742	541775.0	6174.46	87.74	VV
Silvex	9.025	224934.0	2503.01	89.87	VV
2,4,5-T	9.308	180955.0	1904.03	95.04	Sx
Chloramben	9.350	147392.0	2691.20	54.77	xV
2,4-DB	9.658	61420.0	434.49	141.36	SV
Dinoseb	9.875	28661.0	1340.73	21.38	VI
Bentazon	10.233	36243.0	310.67	116.66	VV
Dacthal	10.458	212173.0	2450.54	86.58	Vx
Picloram	10.500	283233.0	3772.71	75.07	xS
Acifluorfen	11.667	65523.0	1369.06	47.86	SV

c:\ezchrom\chrom\wh30\wh30.016 -- Channel B



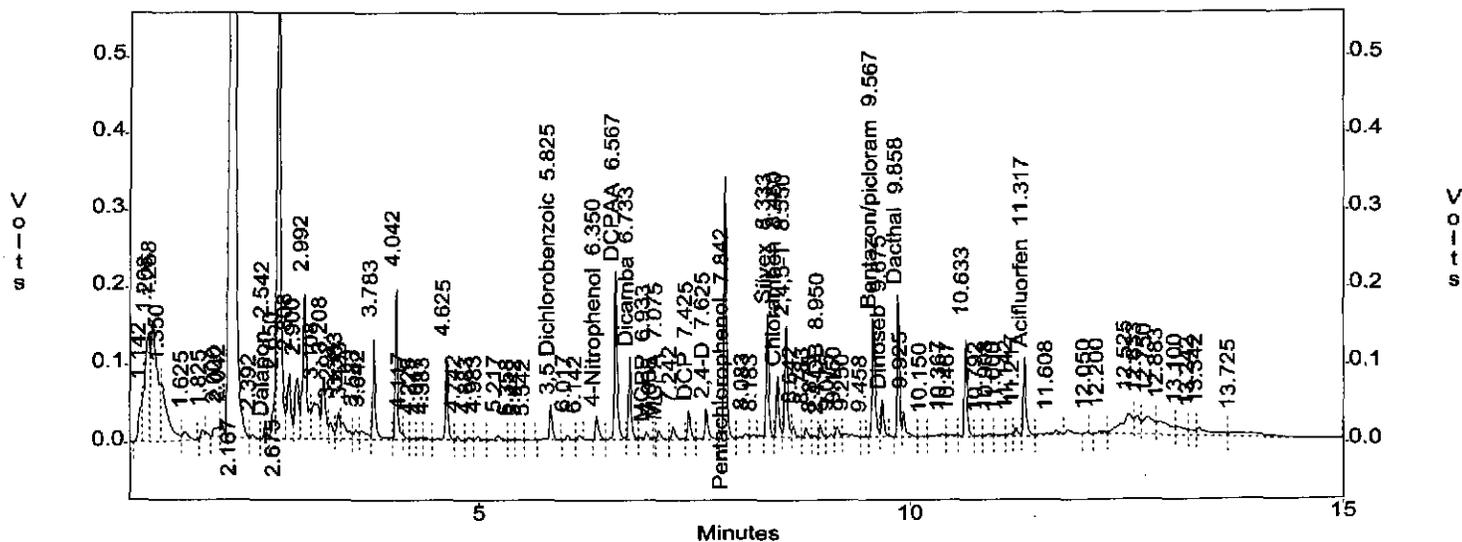
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.017  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : H184-03S  
Acquired : Aug 30, 2012 21:47:23  
Printed : Sep 06, 2012 16:16:44  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc (ppb)	ICODE
Dalapon	2.542	35143.0	1068.05	32.90	VV
3,5 Dichlorobenzoic	5.825	96867.0	1136.62	85.22	BV
4-Nitrophenol	6.350	75482.0	565.13	133.57	BV
DCPAA	6.567	474932.0	523.45	907.30	VV
Dicamba	6.733	222285.0	2283.43	97.35	VV
MCPPP	6.933	33535.0	3.93	8530.84	Vx
MCPA	7.075	36806.0	7.04	5231.46	VV
DCP	7.425	86495.0	802.74	107.75	VV
2,4-D	7.625	108439.0	989.51	109.59	VV
Pentachlorophenol	7.842	731210.0	7843.35	93.23	VV
Silvex	8.333	304018.0	3292.53	92.34	BV
Chloramben	8.450	171224.0	2404.82	71.20	VV
2,4,5-T	8.550	318669.0	3954.31	80.59	VS
2,4-DB	8.950	36098.0	566.24	63.75	VV
Bentazon/picloram	9.567	370830.0	2079.53	178.32	BV
Dinoseb	9.675	96441.0	2823.13	34.16	VI
Dacthal	9.858	329872.0	3862.33	85.41	BS
Acifluorfen	11.317	214044.0	2657.39	80.55	VV

c:\ezchrom\chrom\wh30\wh30.017 - Channel A



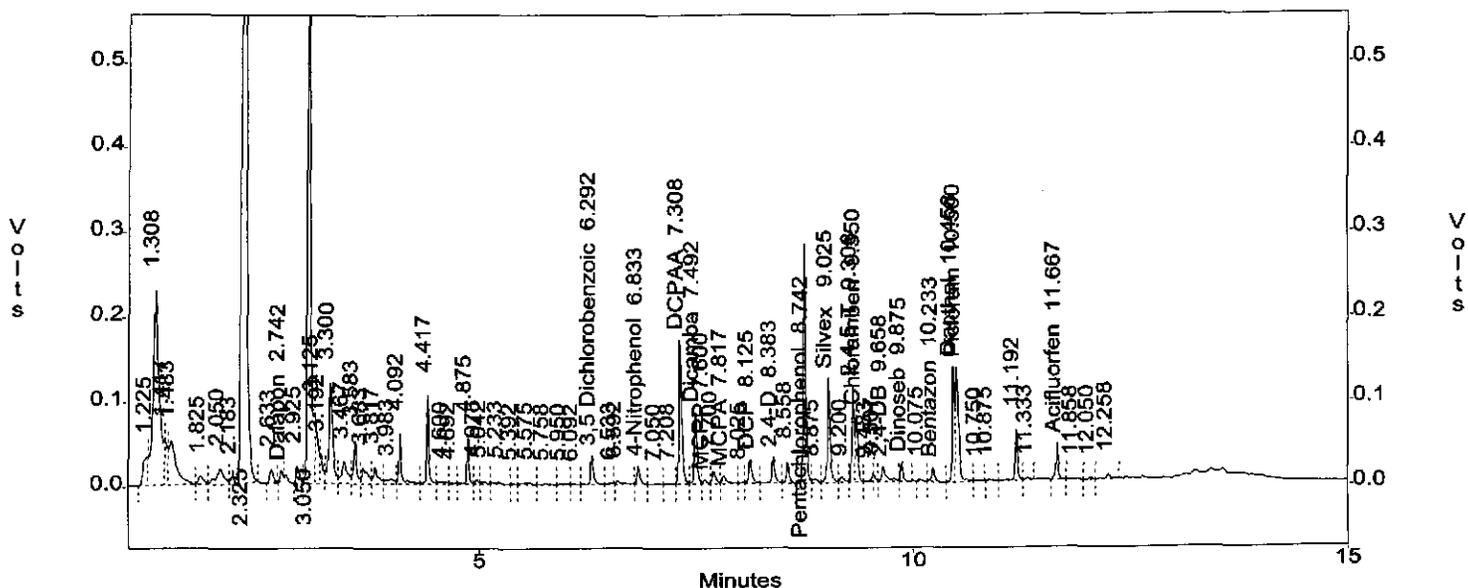
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.017  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : H184-03S  
Acquired : Aug 30, 2012 21:47:23  
Printed : Sep 06, 2012 16:16:44  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc (ppb)	ICODE
Dalapon	2.742	21620.0	742.79	29.11	VS
3,5 Dichlorobenzoic	6.292	79395.0	883.83	89.83	VV
4-Nitrophenol	6.833	47504.0	334.78	141.90	VV
DCPAA	7.308	403284.0	441.16	914.14	VV
Dicamba	7.492	179248.0	1770.58	101.24	VV
MCPFP	7.600	13312.0	2.90	4587.49	VV
MCPA	7.817	31769.0	5.37	5918.60	VV
DCP	8.125	76984.0	660.40	116.57	xV
2,4-D	8.383	73235.0	753.13	97.24	VV
Pentachlorophenol	8.742	597124.0	6174.46	96.71	VV
Silvex	9.025	264079.0	2503.01	105.50	VV
2,4,5-T	9.308	208346.0	1904.03	109.42	Sx
Chloramben	9.350	169308.0	2691.20	62.91	xV
2,4-DB	9.658	66027.0	434.49	151.96	SV
Dinoseb	9.875	40063.0	1340.73	29.88	VI
Bentazon	10.233	39428.0	310.67	126.91	VV
Dacthal	10.458	249995.0	2450.54	102.02	Vx
Picloram	10.500	364053.0	3772.71	96.50	xV
Acifluorfen	11.667	77726.0	1369.06	56.77	BV

c:\ezchrom\chrom\wh30\wh30.017 -- Channel B



# **INITIAL CALIBRATIONS**

INITIAL CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPEST  
 Column size ID : 30MX0.32MM 0.32UM  
 LFID & Datetime: WH30002A 08/30/12 16:45  
 LFID & Datetime: WH30003A 08/30/12 17:05  
 LFID & Datetime: WH30004A 08/30/12 17:25  
 LFID & Datetime: WH30005A 08/30/12 17:45  
 LFID & Datetime: WH30006A 08/30/12 18:05  
 LFID & Datetime: WH30007A 08/30/12 18:25  
 LFID & Datetime: WH30008A 08/30/12 18:46  
 LFID & Datetime: WH30009A 08/30/12 19:06  
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS					(AREA)/UNIT				MEAN	%RSD
		1.00X	2.00X	4.00X	7.00X	10.00X	13.00X	16.00X	20.00X			
Dalapon	10.00	0	1127	1123	1085	1040	995	1008	1099	1068.1	5.1	
3,5-Dichlorobenzo	10.00	0	1310	1318	1183	1106	1056	1017	967	1136.6	12.2	
4-Nitrophenol	10.00	0	581	649	595	564	543	523	500	565.1	8.8	
Dicamba	10.00	0	2372	2657	2407	2265	2164	2103	2017	2283.4	9.5	
MCPPP	500.00	0	0	3	4	4	4	4	4	3.9	5.7	
MCPA	500.00	0	0	9	8	7	7	6	6	7.0	15.0	
Dichloroprop	10.00	0	946	901	825	780	747	726	693	802.7	11.6	
2,4-D	10.00	0	1110	1088	1018	972	941	916	880	989.5	8.8	
Pentachlorophenol	10.00	9162	9118	8607	7859	7405	7091	6902	6604	7843.4	12.9	
2,4,5-TP(Silvex)	10.00	0	3607	3614	3417	3271	3149	3055	2935	3292.5	8.1	
Chloramben	10.00	0	2239	2404	2472	2458	2444	2423	2393	2404.8	3.3	
2,4,5-T	10.00	0	4395	4480	4031	3946	3779	3605	3444	3954.3	9.7	
2,4-DB	10.00	0	549	529	564	630	610	537	545	566.2	6.8	
Bentazon/Picloram	20.00	1808	1992	2089	2149	2167	2155	2148	2128	2079.5	5.9	
Dinoseb	10.00	0	3355	3297	2963	2726	2610	2508	2302	2823.1	14.1	
Dacthal	10.00	0	4352	4327	4010	3798	3646	3543	3361	3862.3	9.9	
Acifluorfen	10.00	0	2571	2710	2724	2690	2661	2654	2591	2657.4	2.2	
SURROGATE	X	1.00X	2.00X	4.00X	7.00X	10.00X	13.00X	16.00X	20.00X	MEAN	%RSD	
2,4-DCPAA	100.00	0	654	616	537	497	471	455	434	523.5	16.0	

2 9/4/12  
5031

INITIAL CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPESTII  
 Column size ID : 30MX0.32MM 0.32UM  
 LFID & Datetime: WH30002B 08/30/12 16:45  
 LFID & Datetime: WH30003B 08/30/12 17:05  
 LFID & Datetime: WH30004B 08/30/12 17:25  
 LFID & Datetime: WH30005B 08/30/12 17:45  
 LFID & Datetime: WH30006B 08/30/12 18:05  
 LFID & Datetime: WH30007B 08/30/12 18:25  
 LFID & Datetime: WH30008B 08/30/12 18:46  
 LFID & Datetime: WH30009B 08/30/12 19:06  
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS								MEAN		%RSD
		1.00X	2.00X	4.00X	7.00X	10.00X	13.00X	16.00X	20.00X	(AREA)/UNIT		
Dalapon	10.00	0	743	624	781	769	748	690	846	742.8	9.5	
3,5-Dichlorobenzo	10.00	0	1025	976	902	861	830	811	782	883.8	10.1	
4-Nitrophenol	10.00	0	360	355	338	329	327	322	312	334.8	5.3	
Dicamba	10.00	0	1831	1884	1806	1764	1729	1710	1670	1770.6	4.2	
MCPP	500.00	0	0	3	3	3	3	3	3	2.9	3.2	
MCPA	500.00	0	0	6	6	5	5	5	5	5.4	13.4	
Dichloroprop	10.00	0	797	708	678	643	618	602	578	660.4	11.3	
2,4-D	10.00	0	873	824	770	733	710	693	670	753.1	9.8	
Pentachlorophenol	10.00	6418	6611	6599	6278	6078	5916	5832	5665	6174.5	5.8	
2,4,5-TP(Silvex)	10.00	0	2530	2629	2561	2516	2467	2442	2377	2503.0	3.3	
Chloramben	10.00	0	2697	2695	2886	2735	2683	2644	2498	2691.2	4.3	
2,4,5-T	10.00	0	1798	2028	1809	1917	1910	1912	1954	1904.0	4.2	
2,4-DB	10.00	0	476	470	439	429	418	412	398	434.5	6.7	
Dinoseb	10.00	0	1423	1398	1349	1325	1310	1303	1278	1340.7	3.9	
Bentazon	10.00	0	363	314	300	300	298	299	301	310.7	7.6	
Dacthal	10.00	0	2500	2625	2688	2374	2320	2313	2335	2450.5	6.3	
Picloram	10.00	0	3467	3630	3636	3946	3964	3953	3813	3772.7	5.2	
Acifluorfen	10.00	0	1355	1373	1383	1371	1368	1375	1359	1369.1	0.7	
SURROGATE	X	1.00X	2.00X	4.00X	7.00X	10.00X	13.00X	16.00X	20.00X	MEAN	%RSD	
2,4-DCPAA	100.00	0	543	497	447	422	405	395	381	441.2	13.4	

9/14/12  
5632

INITIAL CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPEST  
 Column size ID : 30MX0.32MM 0.32UM  
 LFID & Datetime: WH30002A 08/30/12 16:45  
 LFID & Datetime: WH30003A 08/30/12 17:05  
 LFID & Datetime: WH30004A 08/30/12 17:25  
 LFID & Datetime: WH30005A 08/30/12 17:45  
 LFID & Datetime: WH30006A 08/30/12 18:05  
 LFID & Datetime: WH30007A 08/30/12 18:25  
 LFID & Datetime: WH30008A 08/30/12 18:46  
 LFID & Datetime: WH30009A 08/30/12 19:06

COMPOUND	RT OF STANDARDS (MIN)								MEAN RT	RT WINDOW		RTWINDOW WIDTH
	1.0X	2.0X	4.0X	7.0X	10.0X	13.0X	16.0X	20.0X		FROM	TO	
Dalapon	2.542	2.542	2.542	2.542	2.542	2.542	2.542	2.533	2.541	2.525	2.557	0.016
3,5-Dichlorobenzo	5.833	5.833	5.833	5.825	5.825	5.825	5.825	5.825	5.827	5.811	5.843	0.016
4-Nitrophenol	0.000	6.367	6.367	6.358	6.358	6.358	6.350	6.350	6.358	6.344	6.372	0.014
Dicamba	6.742	6.742	6.742	6.733	6.733	6.733	6.733	6.733	6.736	6.720	6.752	0.016
MCPP	0.000	6.942	6.933	6.933	6.933	6.933	6.933	6.933	6.933	6.917	6.949	0.016
MCPA	7.092	7.092	7.083	7.083	7.075	7.075	7.075	7.075	7.078	7.064	7.092	0.014
Dichloroprop	7.442	7.433	7.433	7.433	7.425	7.425	7.425	7.425	7.428	7.412	7.444	0.016
2,4-D	7.650	7.650	7.642	7.633	7.633	7.633	7.633	7.633	7.637	7.623	7.651	0.014
Pentachlorophenol	7.850	7.850	7.842	7.842	7.842	7.842	7.842	7.842	7.844	7.830	7.858	0.014
2,4,5-TP(Silvex)	8.350	8.342	8.342	8.342	8.333	8.333	8.333	8.333	8.337	8.321	8.353	0.016
Chloramben	8.475	8.475	8.467	8.467	8.458	8.458	8.458	8.458	8.462	8.448	8.476	0.014
2,4,5-T	0.000	8.567	8.567	8.558	8.550	8.550	8.550	8.550	8.556	8.540	8.572	0.016
2,4-DB	0.000	8.975	8.975	8.967	8.967	8.958	8.958	8.958	8.965	8.949	8.981	0.016
Bentazon/Picloram	9.600	9.600	9.592	9.592	9.583	9.583	9.583	9.575	9.588	9.572	9.604	0.016
Dinoseb	9.683	9.683	9.683	9.683	9.675	9.675	9.675	9.675	9.678	9.664	9.692	0.014
Dacthal	9.867	9.867	9.867	9.867	9.858	9.858	9.858	9.858	9.862	9.848	9.876	0.014
Acifluorfen	11.325	11.325	11.325	11.325	11.325	11.325	11.325	11.317	11.324	11.308	11.340	0.016
SURROGATE	1.0X	2.0X	4.0X	7.0X	10.0X	13.0X	16.0X	20.0X	RT	FROM	TO	WIDTH
2,4-DCPAA	6.575	6.575	6.575	6.567	6.567	6.567	6.567	6.567	6.569	6.553	6.585	0.016

12-9/14

INITIAL CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPESTII  
 Column size ID : 30MX0.32MM 0.32UM  
 LFID & Datetime: WH30002B 08/30/12 16:45  
 LFID & Datetime: WH30003B 08/30/12 17:05  
 LFID & Datetime: WH30004B 08/30/12 17:25  
 LFID & Datetime: WH30005B 08/30/12 17:45  
 LFID & Datetime: WH30006B 08/30/12 18:05  
 LFID & Datetime: WH30007B 08/30/12 18:25  
 LFID & Datetime: WH30008B 08/30/12 18:46  
 LFID & Datetime: WH30009B 08/30/12 19:06

COMPOUND	RT OF STANDARDS (MIN)								MEAN RT	RT WINDOW		RTWINDOW WIDTH
	1.0X	2.0X	4.0X	7.0X	10.0X	13.0X	16.0X	20.0X		FROM	TO	
Dalapon	2.750	2.750	2.750	2.742	2.742	2.742	2.742	2.742	2.744	2.728	2.760	0.016
3,5-Dichlorobenzo	6.308	6.300	6.300	6.300	6.292	6.292	6.292	6.292	6.295	6.281	6.309	0.014
4-Nitrophenol	6.850	6.850	6.850	6.842	6.842	6.842	6.842	6.833	6.843	6.827	6.859	0.016
Dicamba	7.500	7.500	7.500	7.500	7.492	7.492	7.492	7.492	7.495	7.479	7.511	0.016
MCPP	0.000	0.000	7.608	7.600	7.600	7.600	7.600	7.600	7.601	7.587	7.615	0.014
MCPA	7.833	7.825	7.825	7.825	7.817	7.817	7.817	7.817	7.820	7.804	7.836	0.016
Dichloroprop	8.133	8.133	8.125	8.125	8.125	8.125	8.125	8.125	8.126	8.112	8.140	0.014
2,4-D	0.000	8.400	8.400	8.392	8.392	8.392	8.392	8.383	8.393	8.379	8.407	0.014
Pentachlorophenol	8.750	8.750	8.750	8.750	8.742	8.742	8.742	8.742	8.746	8.730	8.762	0.016
2,4,5-TP(Silvex)	9.042	9.042	9.033	9.033	9.033	9.033	9.033	9.025	9.033	9.017	9.049	0.016
Chloramben	9.367	9.367	9.358	9.358	9.350	9.350	9.350	9.350	9.355	9.341	9.369	0.014
2,4,5-T	9.325	9.325	9.317	9.317	9.317	9.308	9.308	9.308	9.314	9.298	9.330	0.016
2,4-DB	9.683	9.683	9.675	9.675	9.667	9.667	9.667	9.667	9.672	9.658	9.686	0.014
Dinoseb	9.883	9.883	9.883	9.875	9.875	9.875	9.875	9.875	9.877	9.863	9.891	0.014
Bentazon	10.242	10.242	10.242	10.242	10.233	10.233	10.233	10.233	10.237	10.223	10.251	0.014
Dacthal	10.475	10.467	10.467	10.467	10.467	10.467	10.467	10.467	10.467	10.453	10.481	0.014
Picloram	10.525	10.517	10.517	10.508	10.508	10.508	10.508	10.508	10.511	10.481	10.541	0.030
Acifluorfen	11.675	11.675	11.675	11.675	11.667	11.667	11.667	11.667	11.670	11.654	11.686	0.016
SURROGATE	1.0X	2.0X	4.0X	7.0X	10.0X	13.0X	16.0X	20.0X	RT	FROM	TO	WIDTH
2,4-DCPAA	7.325	7.317	7.317	7.317	7.317	7.317	7.317	7.317	7.317	7.303	7.331	0.014

*9/14/12*

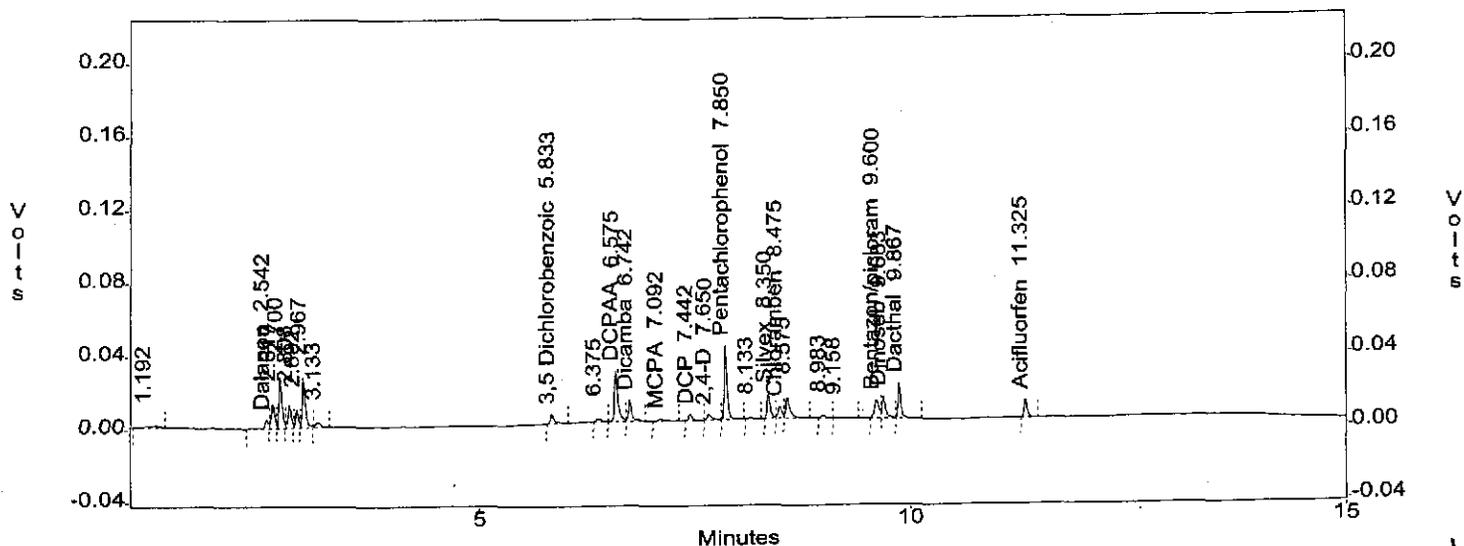
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.002  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3001  
Acquired : Aug 30, 2012 16:45:08  
Printed : Aug 31, 2012 09:56:51  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	17363.0	1068.05	-1.00	BS
3,5 Dichlorobenzoic	5.833	16056.0	1136.62	-1.00	BV
4-Nitrophenol	6.358	0.0	0.00	0.00	--
DCPAA	6.575	80408.0	523.45	-1.00	VV
Dicamba	6.742	32717.0	2283.43	-1.00	VV
MCP	6.933	0.0	0.00	0.00	--
MCPA	7.092	5692.0	7.04	-1.00	xB
DCP	7.442	9500.0	802.74	-1.00	BV
2,4-D	7.650	10800.0	989.51	-1.00	VV
Pentachlorophenol	7.850	91616.0	7843.35	10.00	VV
Silvex	8.350	34885.0	3292.53	-1.00	BV
Chloramben	8.475	20700.0	2404.82	-1.00	VV
2,4,5-T	8.558	0.0	0.00	0.00	--
2,4-DB	8.967	0.0	0.00	0.00	--
Bentazon/picloram	9.600	36167.0	2079.53	20.00	BV
Dinoseb	9.683	34791.0	2823.13	-1.00	VV
Dacthal	9.867	43437.0	3862.33	-1.00	VB
Acifluorfen	11.325	23826.0	2657.39	-1.00	BV

c:\ezchrom\chrom\wh30\wh30.002 -- Channel A

9/4/12  
5035

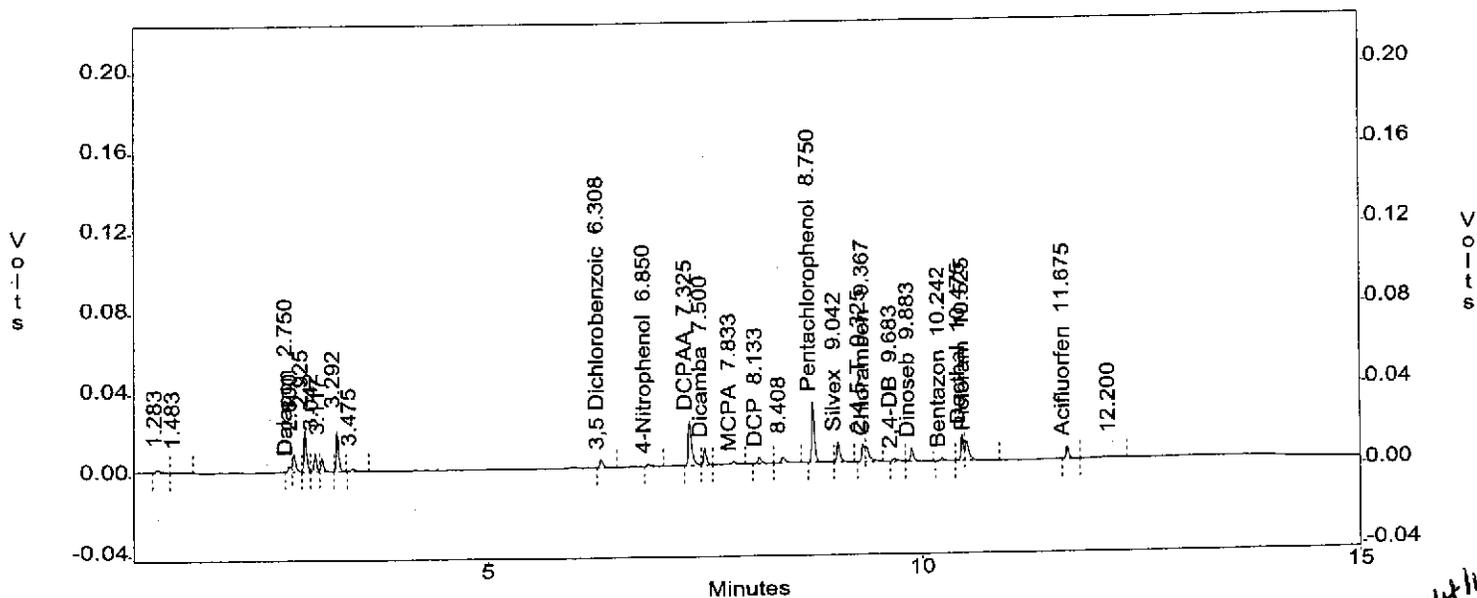
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.002  
Method : c:\ezchrom\methods\hel6h30.met  
Sample ID : HE16H3001  
Acquired : Aug 30, 2012 16:45:08  
Printed : Aug 31, 2012 09:56:51  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.750	6809.0	742.79	-1.00	Bx
3,5 Dichlorobenzoic	6.308	10847.0	883.83	-1.00	BV
4-Nitrophenol	6.850	3555.0	334.78	-1.00	BV
DCPAA	7.325	60830.0	441.16	-1.00	BV
Dicamba	7.500	19911.0	1770.58	-1.00	VV
MCPPP	7.608	0.0	0.00	0.00	--
MCPA	7.833	7017.0	5.37	-1.00	VV
DCP	8.133	9489.0	660.40	-1.00	xV
2,4-D	8.392	0.0	0.00	0.00	--
Pentachlorophenol	8.750	64175.0	6174.46	10.00	BV
Silvex	9.042	25405.0	2503.01	-1.00	VB
2,4,5-T	9.325	19419.0	1904.03	-1.00	Bx
Chloramben	9.367	24187.0	2691.20	-1.00	xx
2,4-DB	9.683	5007.0	434.49	-1.00	VV
Dinoseb	9.883	14741.0	1340.73	-1.00	VV
Bentazon	10.242	3574.0	310.67	-1.00	VV
Dacthal	10.475	26615.0	2450.54	-1.00	Vx
Picloram	10.525	30995.0	3772.71	-1.00	xV
Acifluorfen	11.675	13510.0	1369.06	-1.00	BV

c:\ezchrom\chrom\wh30\wh30.002 -- Channel B



5836

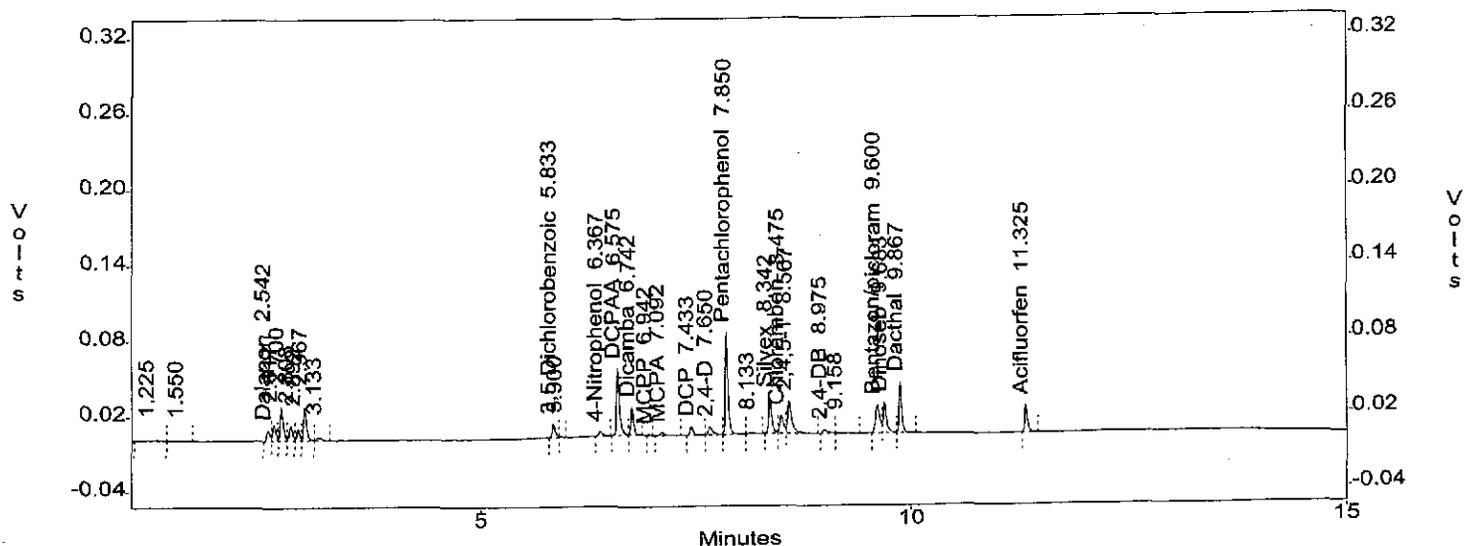
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.003  
 Method : c:\ezchrom\methods\he16h30.met  
 Sample ID : HE16H3002  
 Acquired : Aug 30, 2012 17:05:15  
 Printed : Aug 31, 2012 09:57:40  
 User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	22537.0	1068.05	20.00	BS
3,5 Dichlorobenzoic	5.833	26196.0	1136.62	20.00	Bx
4-Nitrophenol	6.367	11629.0	565.13	20.00	BI
DCPAA	6.575	130874.0	523.45	200.00	BI
Dicamba	6.742	47440.0	2283.43	20.00	fI
MCPA	6.942	1551.0	3.93	-1.00	BV
MCPA	7.092	9145.0	7.04	-1.00	xB
DCP	7.433	18916.0	802.74	20.00	BV
2,4-D	7.650	22209.0	989.51	20.00	VV
Pentachlorophenol	7.850	182369.0	7843.35	20.00	VV
Silvex	8.342	72142.0	3292.53	20.00	BV
Chloramben	8.475	44780.0	2404.82	20.00	VV
2,4,5-T	8.567	87905.0	3954.31	20.00	VI
2,4-DB	8.975	10981.0	566.24	20.00	BV
Bentazon/picloram	9.600	79698.0	2079.53	40.00	BV
Dinoseb	9.683	67108.0	2823.13	20.00	VV
Dacthal	9.867	87046.0	3862.33	20.00	VI
Acifluorfen	11.325	51423.0	2657.39	20.00	BV

c:\ezchrom\chrom\wh30\wh30.003 -- Channel A



9/14/12  
5637

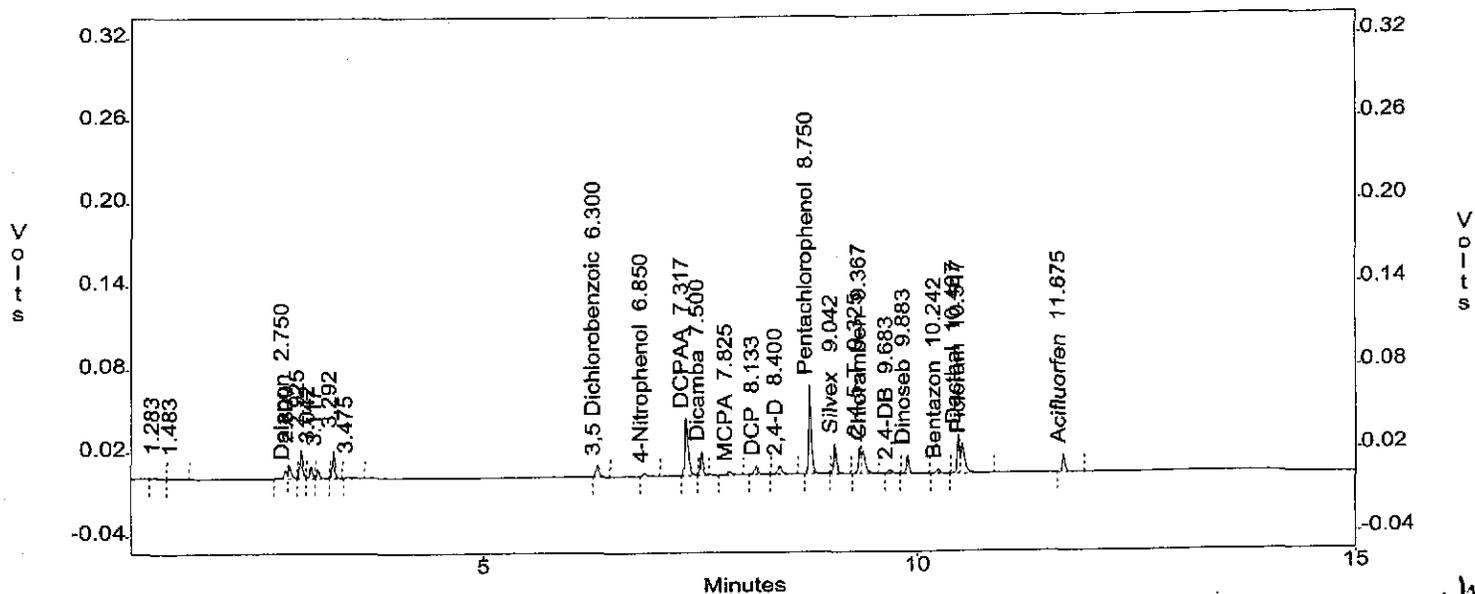
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.003  
 Method : c:\ezchrom\methods\he16h30.met  
 Sample ID : HE16H3002  
 Acquired : Aug 30, 2012 17:05:15  
 Printed : Aug 31, 2012 09:57:40  
 User : Supakit

Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.750	14850.0	742.79	20.00	Bx
3,5 Dichlorobenzoic	6.300	20490.0	883.83	20.00	BI
4-Nitrophenol	6.850	7209.0	334.78	20.00	BV
DCPAA	7.317	108545.0	441.16	200.00	BV
Dicamba	7.500	36626.0	1770.58	20.00	fV
MCPD	7.608	0.0	0.00	0.00	--
MCPA	7.825	7985.0	5.37	-1.00	SV
DCP	8.133	15932.0	660.40	20.00	xV
2,4-D	8.400	17460.0	753.13	20.00	VB
Pentachlorophenol	8.750	132213.0	6174.46	20.00	BV
Silvex	9.042	50605.0	2503.01	20.00	VB
2,4,5-T	9.325	35964.0	1904.03	20.00	Bx
Chloramben	9.367	53934.0	2691.20	20.00	xx
2,4-DB	9.683	9515.0	434.49	20.00	VV
Dinoseb	9.883	28452.0	1340.73	20.00	VV
Bentazon	10.242	7258.0	310.67	20.00	VV
Dacthal	10.467	49995.0	2450.54	20.00	Vx
Picloram	10.517	69348.0	3772.71	20.00	xV
Acifluorfen	11.675	27097.0	1369.06	20.00	BB

c:\ezchrom\chrom\wh30\wh30.003 - Channel B



*9/14/12*  
5038

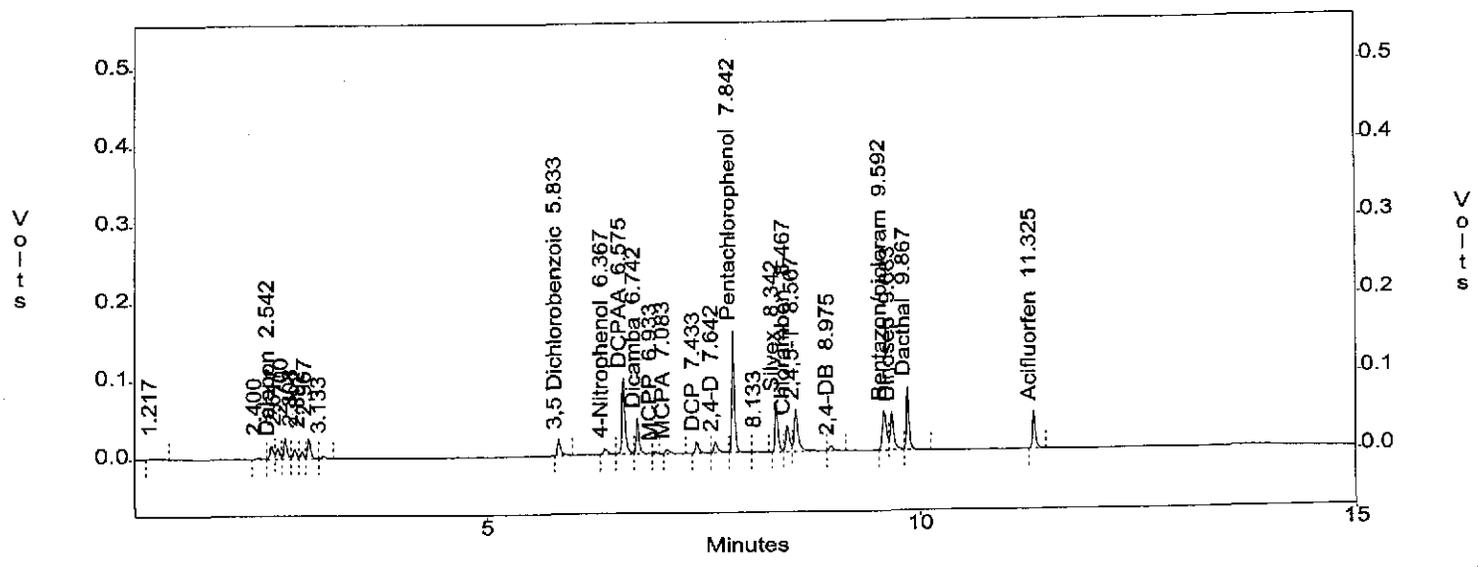
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.004  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3003  
Acquired : Aug 30, 2012 17:25:23  
Printed : Aug 31, 2012 09:51:18  
User : Supakit

Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	44938.0	1068.05	40.00	VV
3,5 Dichlorobenzoic	5.833	52704.0	1136.62	40.00	BV
4-Nitrophenol	6.367	25973.0	565.13	40.00	BV
DCPAA	6.575	246515.0	523.45	400.00	VV
Dicamba	6.742	106283.0	2283.43	40.00	VV
MCPP	6.933	6956.0	3.93	2000.00	VV
MCPA	7.083	17594.0	7.04	2000.00	fB
DCP	7.433	36046.0	802.74	40.00	BV
2,4-D	7.642	43535.0	989.51	40.00	VV
Pentachlorophenol	7.842	344293.0	7843.35	40.00	VV
Silvex	8.342	144544.0	3292.53	40.00	BV
Chloramben	8.467	96177.0	2404.82	40.00	VV
2,4,5-T	8.567	179211.0	3954.31	40.00	VV
2,4-DB	8.975	21168.0	566.24	40.00	VB
Bentazon/picloram	9.592	167082.0	2079.53	80.00	BV
Dinoseb	9.683	131877.0	2823.13	40.00	VV
Dacthal	9.867	173083.0	3862.33	40.00	VB
Acifluorfen	11.325	108406.0	2657.39	40.00	BV

c:\ezchrom\chrom\wh30\wh30.004 -- Channel A



5639  
9/31/12

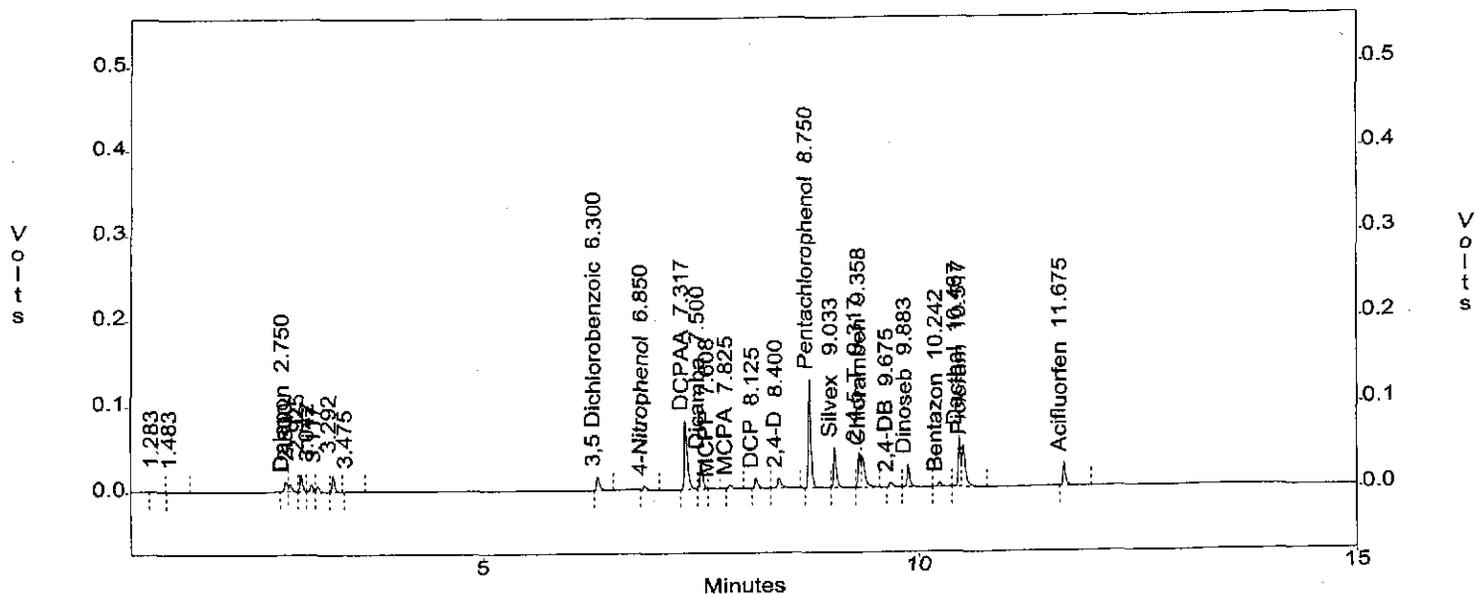
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.004  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3003  
Acquired : Aug 30, 2012 17:25:23  
Printed : Aug 31, 2012 09:51:19  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.750	24940.0	742.79	40.00	MM
3,5 Dichlorobenzoic	6.300	39040.0	883.83	40.00	BV
4-Nitrophenol	6.850	14211.0	334.78	40.00	BV
DCPAA	7.317	198661.0	441.16	400.00	BV
Dicamba	7.500	75378.0	1770.58	40.00	VV
MCPP	7.608	5532.0	2.90	2000.00	VV
MCPA	7.825	12789.0	5.37	2000.00	xI
DCP	8.125	28308.0	660.40	40.00	BV
2,4-D	8.400	32954.0	753.13	40.00	VB
Pentachlorophenol	8.750	263943.0	6174.46	40.00	BV
Silvex	9.033	105144.0	2503.01	40.00	VV
2,4,5-T	9.317	81137.0	1904.03	40.00	Vx
Chloramben	9.358	107795.0	2691.20	40.00	xx
2,4-DB	9.675	18785.0	434.49	40.00	VV
Dinoseb	9.883	55918.0	1340.73	40.00	VV
Bentazon	10.242	12557.0	310.67	40.00	VV
Dacthal	10.467	104986.0	2450.54	40.00	MM
Picloram	10.517	145202.0	3772.71	40.00	MM
Acifluorfen	11.675	54918.0	1369.06	40.00	BV

c:\ezchrom\chrom\wh30\wh30.004 -- Channel B



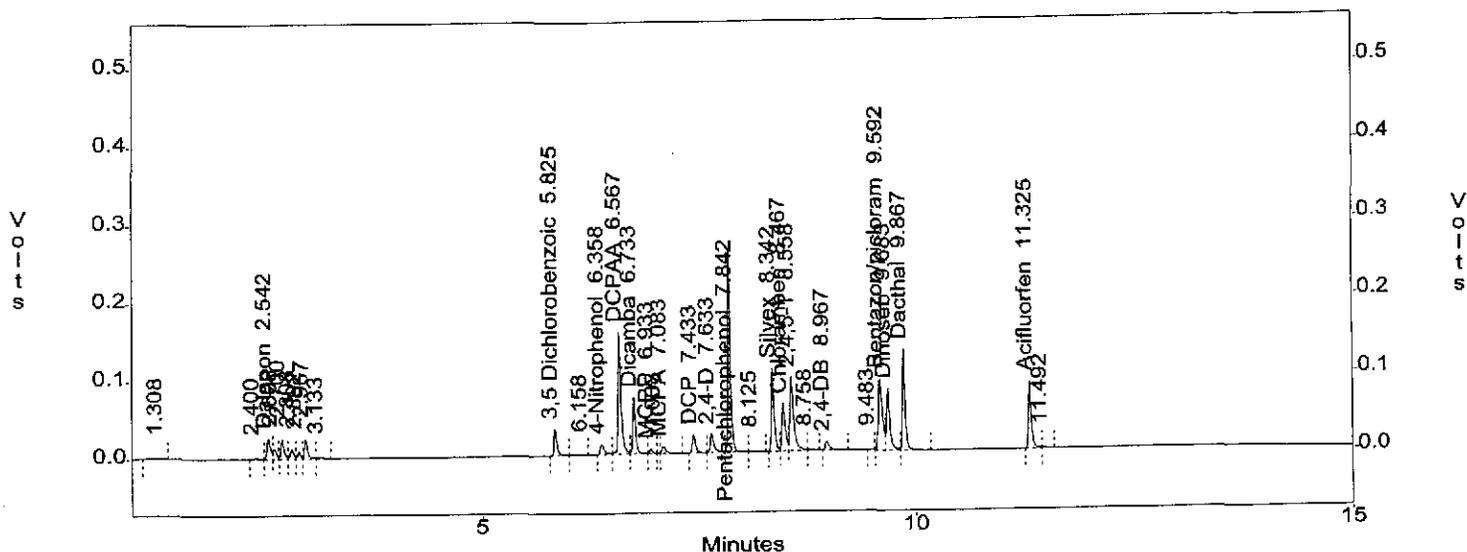
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.005  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3004  
Acquired : Aug 30, 2012 17:45:33  
Printed : Aug 31, 2012 09:51:25  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	75917.0	1068.05	70.00	VS
3,5 Dichlorobenzoic	5.825	82801.0	1136.62	70.00	BV
4-Nitrophenol	6.358	41626.0	565.13	70.00	BV
DCPAA	6.567	375868.0	523.45	700.00	VV
Dicamba	6.733	168486.0	2283.43	70.00	VV
MCPA	6.933	13882.0	3.93	3500.00	Vx
MCPA	7.083	26843.0	7.04	3500.00	VB
DCP	7.433	57761.0	802.74	70.00	BV
2,4-D	7.633	71290.0	989.51	70.00	VV
Pentachlorophenol	7.842	550098.0	7843.35	70.00	VV
Silvex	8.342	239162.0	3292.53	70.00	BV
Chloramben	8.467	173068.0	2404.82	70.00	VV
2,4,5-T	8.558	282167.0	3954.31	70.00	VV
2,4-DB	8.967	39489.0	566.24	70.00	BV
Bentazon/picloram	9.592	300852.0	2079.53	140.00	BV
Dinoseb	9.683	207422.0	2823.13	70.00	VV
Dacthal	9.867	280669.0	3862.33	70.00	VB
Acifluorfen	11.325	190687.0	2657.39	70.00	BV

c:\ezchrom\chrom\wh30\wh30.005 -- Channel A



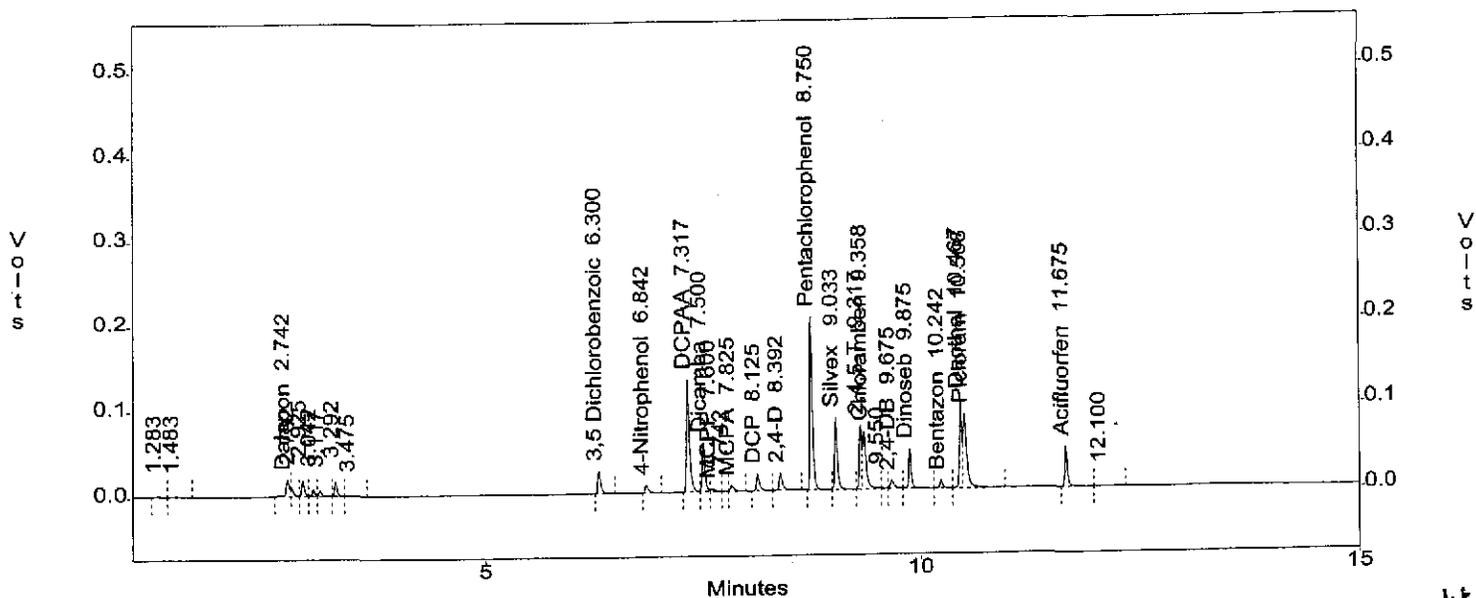
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.005  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3004  
Acquired : Aug 30, 2012 17:45:33  
Printed : Aug 31, 2012 09:51:25  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	54655.0	742.79	70.00	Bx
3,5 Dichlorobenzoic	6.300	63163.0	883.83	70.00	BV
4-Nitrophenol	6.842	23677.0	334.78	70.00	BV
DCPAA	7.317	312647.0	441.16	700.00	BV
Dicamba	7.500	126415.0	1770.58	70.00	VV
MCPP	7.600	10569.0	2.90	3500.00	VV
MCPA	7.825	20996.0	5.37	3500.00	SV
DCP	8.125	47429.0	660.40	70.00	xV
2,4-D	8.392	53868.0	753.13	70.00	VB
Pentachlorophenol	8.750	439473.0	6174.46	70.00	BV
Silvex	9.033	179268.0	2503.01	70.00	VV
2,4,5-T	9.317	126651.0	1904.03	70.00	Vx
Chloramben	9.358	202003.0	2691.20	70.00	xx
2,4-DB	9.675	30750.0	434.49	70.00	VV
Dinoseb	9.875	94443.0	1340.73	70.00	VV
Bentazon	10.242	21028.0	310.67	70.00	VV
Dacthal	10.467	188173.0	2450.54	70.00	Vx
Picloram	10.508	254542.0	3772.71	70.00	xV
Acifluorfen	11.675	96804.0	1369.06	70.00	BV

c:\ezchrom\chrom\wh30\wh30.005 -- Channel B



8/31/12  
5642

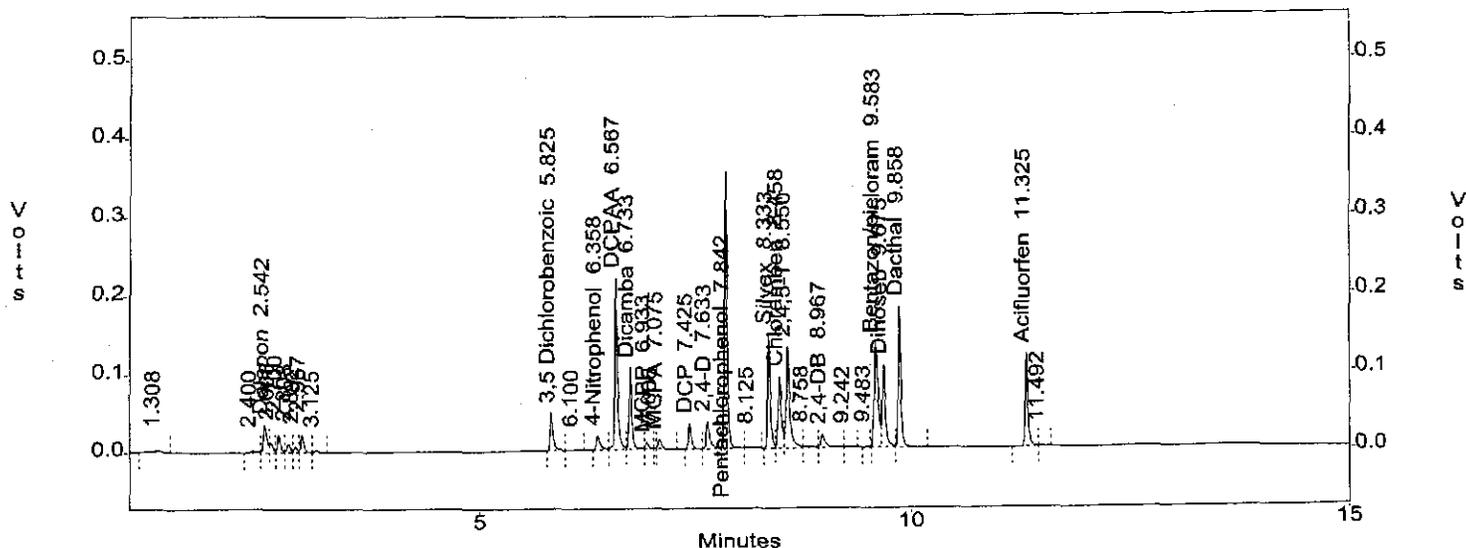
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.006  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3005  
Acquired : Aug 30, 2012 18:05:47  
Printed : Aug 31, 2012 09:51:31  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	104002.0	1068.05	100.00	VS
3,5 Dichlorobenzoic	5.825	110560.0	1136.62	100.00	BV
4-Nitrophenol	6.358	56418.0	565.13	100.00	BV
DCPAA	6.567	496779.0	523.45	1000.00	VV
Dicamba	6.733	226473.0	2283.43	100.00	VV
MCPA	6.933	20085.0	3.93	5000.00	Vx
MCPA	7.075	34945.0	7.04	5000.00	VB
DCP	7.425	78017.0	802.74	100.00	BV
2,4-D	7.633	97243.0	989.51	100.00	VV
Pentachlorophenol	7.842	740456.0	7843.35	100.00	VV
Silvex	8.333	327053.0	3292.53	100.00	BV
Chloramben	8.458	245807.0	2404.82	100.00	VV
2,4,5-T	8.550	394618.0	3954.31	100.00	VV
2,4-DB	8.967	62969.0	566.24	100.00	VV
Bentazon/picloram	9.583	433451.0	2079.53	200.00	BV
Dinoseb	9.675	272553.0	2823.13	100.00	VV
Dacthal	9.858	379791.0	3862.33	100.00	VB
Acifluorfen	11.325	268976.0	2657.39	100.00	BV

c:\ezchrom\chrom\wh30\wh30.006 -- Channel A



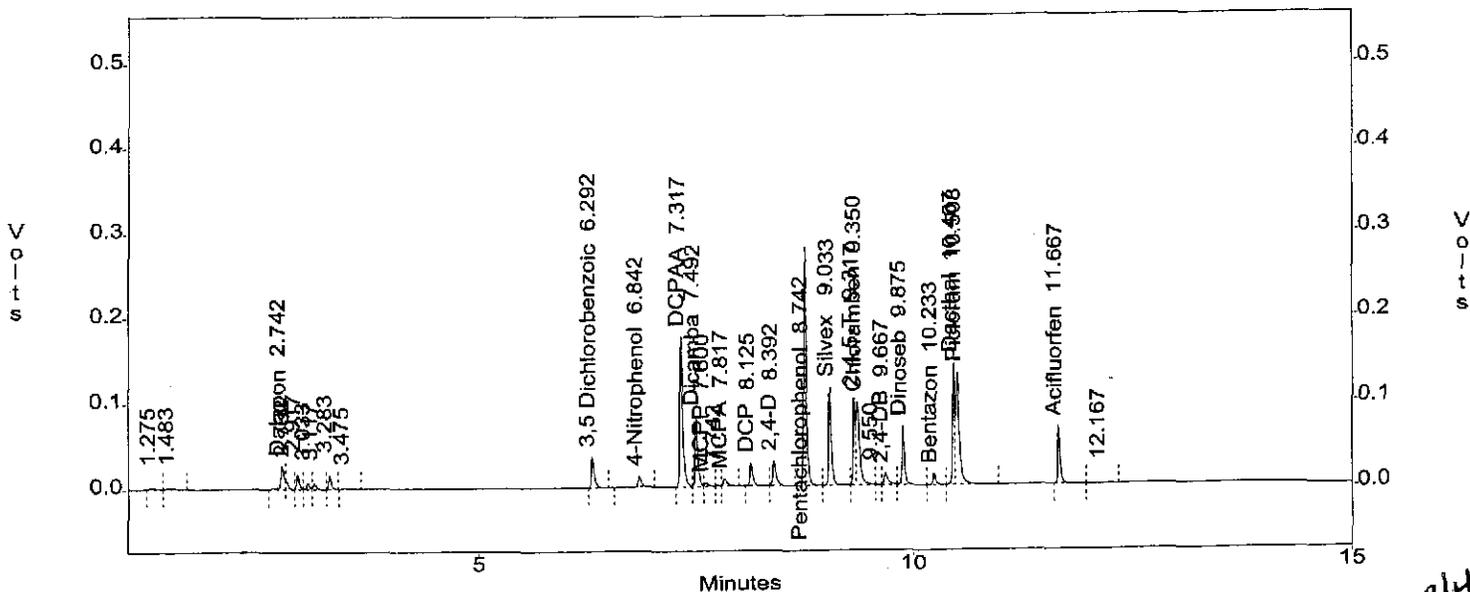
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.006  
 Method : c:\ezchrom\methods\he16h30.met  
 Sample ID : HE16H3005  
 Acquired : Aug 30, 2012 18:05:47  
 Printed : Aug 31, 2012 09:51:31  
 User : Supakit

Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	76903.0	742.79	100.00	Bx
3,5 Dichlorobenzoic	6.292	86072.0	883.83	100.00	BV
4-Nitrophenol	6.842	32860.0	334.78	100.00	xV
DCPAA	7.317	421636.0	441.16	1000.00	BV
Dicamba	7.492	176422.0	1770.58	100.00	VV
MCPP	7.600	14848.0	2.90	5000.00	VV
MCPA	7.817	27124.0	5.37	5000.00	SV
DCP	8.125	64285.0	660.40	100.00	xV
2,4-D	8.392	73310.0	753.13	100.00	VB
Pentachlorophenol	8.742	607834.0	6174.46	100.00	BV
Silvex	9.033	251578.0	2503.01	100.00	VV
2,4,5-T	9.317	191661.0	1904.03	100.00	Vx
Chloramben	9.350	273526.0	2691.20	100.00	xx
2,4-DB	9.667	42933.0	434.49	100.00	VV
Dinoseb	9.875	132476.0	1340.73	100.00	VV
Bentazon	10.233	29968.0	310.67	100.00	VV
Dacthal	10.467	237384.0	2450.54	100.00	Vx
Picloram	10.508	394561.0	3772.71	100.00	xB
Acifluorfen	11.667	137073.0	1369.06	100.00	BV

c:\ezchrom\chrom\wh30\wh30.006 -- Channel B



2-9/14/12  
5674

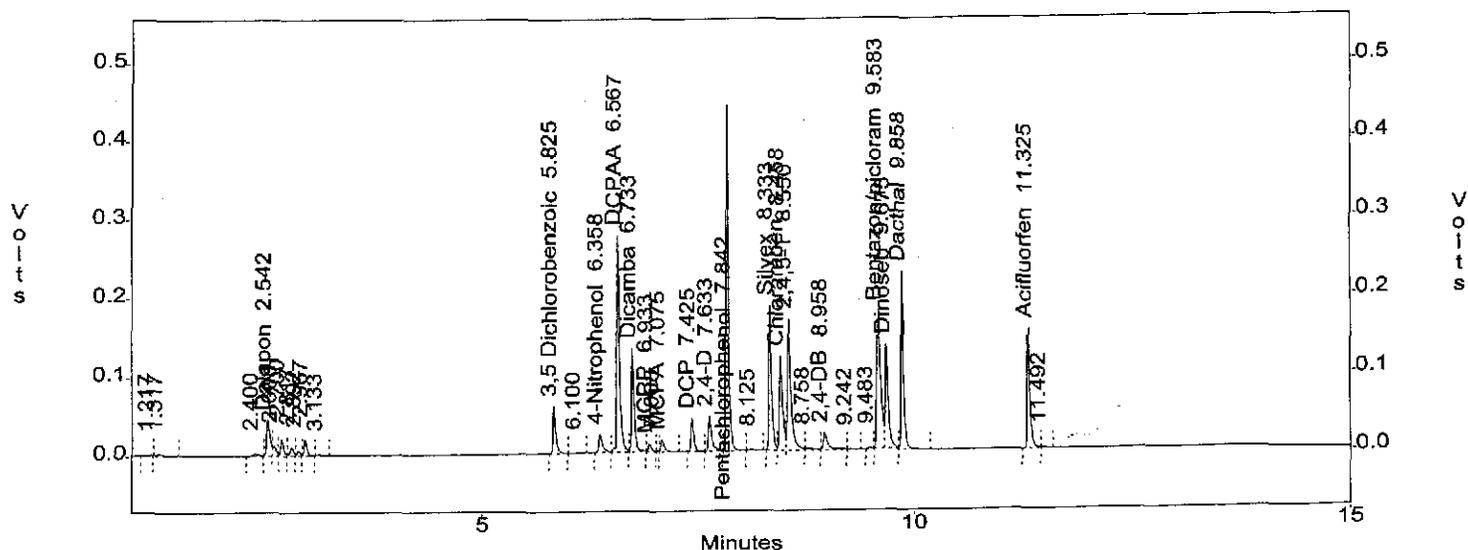
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.007  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3006  
Acquired : Aug 30, 2012 18:25:57  
Printed : Aug 31, 2012 09:51:42  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	129359.0	1068.05	130.00	VS
3,5 Dichlorobenzoic	5.825	137301.0	1136.62	130.00	BV
4-Nitrophenol	6.358	70545.0	565.13	130.00	BV
DCPAA	6.567	611828.0	523.45	1300.00	VV
Dicamba	6.733	281329.0	2283.43	130.00	VV
MCCP	6.933	26462.0	3.93	6500.00	Vx
MCPA	7.075	42809.0	7.04	6500.00	VB
DCP	7.425	97133.0	802.74	130.00	BV
2,4-D	7.633	122284.0	989.51	130.00	VV
Pentachlorophenol	7.842	921801.0	7843.35	130.00	VV
Silvex	8.333	409420.0	3292.53	130.00	BV
Chloramben	8.458	317754.0	2404.82	130.00	VV
2,4,5-T	8.550	491205.0	3954.31	130.00	VV
2,4-DB	8.958	79251.0	566.24	130.00	VV
Bentazon/picloram	9.583	560174.0	2079.53	260.00	BV
Dinoseb	9.675	339363.0	2823.13	130.00	VV
Dacthal	9.858	473965.0	3862.33	130.00	VB
Acifluorfen	11.325	345976.0	2657.39	130.00	VV

c:\ezchrom\chrom\wh30\wh30.007 -- Channel A



8/31/12  
5945

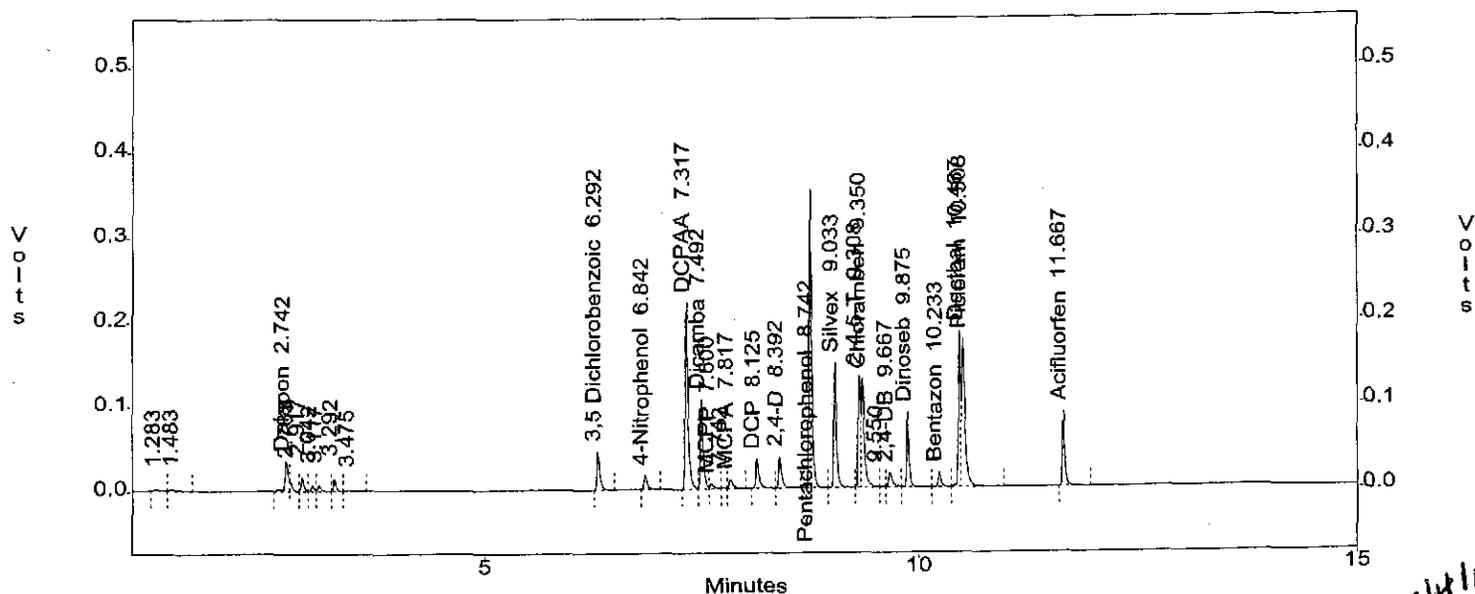
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.007  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3006  
Acquired : Aug 30, 2012 18:25:57  
Printed : Aug 31, 2012 09:51:43  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	97261.0	742.79	130.00	Bx
3,5 Dichlorobenzoic	6.292	107919.0	883.83	130.00	BV
4-Nitrophenol	6.842	42544.0	334.78	130.00	BV
DCPAA	7.317	526110.0	441.16	1300.00	VV
Dicamba	7.492	224705.0	1770.58	130.00	VV
MCPP	7.600	19026.0	2.90	6500.00	VV
MCPA	7.817	32867.0	5.37	6500.00	SV
DCP	8.125	80390.0	660.40	130.00	xV
2,4-D	8.392	92249.0	753.13	130.00	VB
Pentachlorophenol	8.742	769080.0	6174.46	130.00	BV
Silvex	9.033	320654.0	2503.01	130.00	VV
2,4,5-T	9.308	248247.0	1904.03	130.00	Vx
Chloramben	9.350	348836.0	2691.20	130.00	xx
2,4-DB	9.667	54307.0	434.49	130.00	VV
Dinoseb	9.875	170327.0	1340.73	130.00	VV
Bentazon	10.233	38770.0	310.67	130.00	VV
Dacthal	10.467	301605.0	2450.54	130.00	Vx
Picloram	10.508	515327.0	3772.71	130.00	xB
Acifluorfen	11.667	177809.0	1369.06	130.00	BV

c:\ezchrom\chrom\wh30\wh30.007 -- Channel B

2-9/14/12  
5046

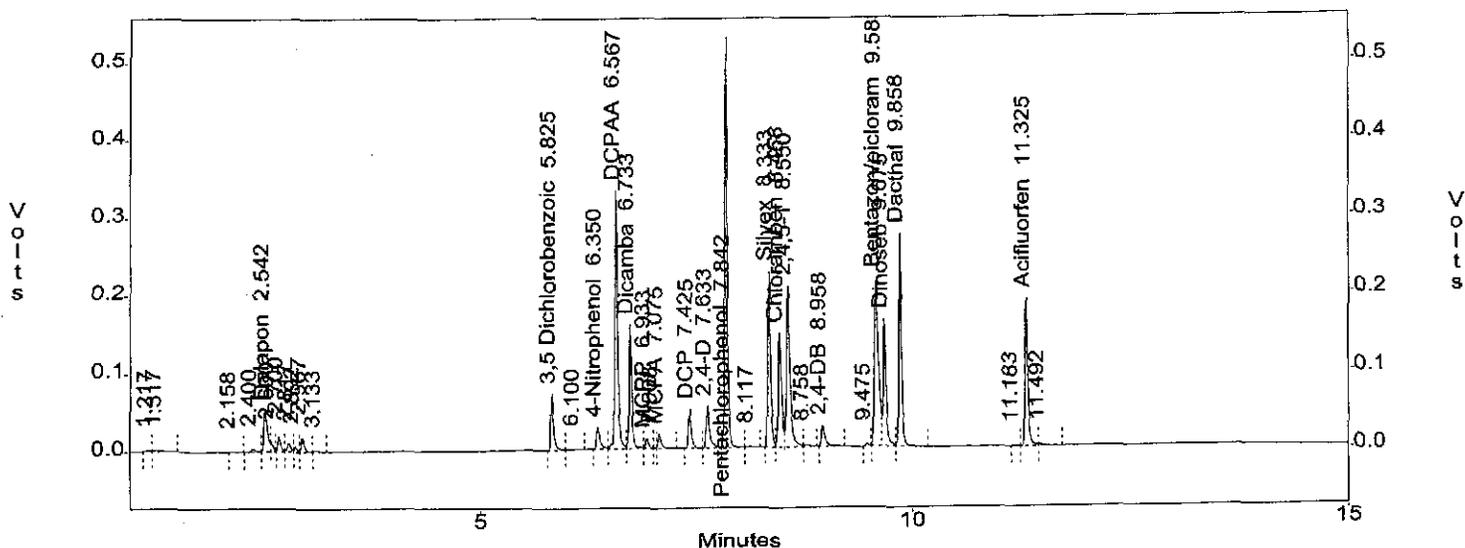
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.008  
Method : c:\ezchrom\methods\hel6h30.met  
Sample ID : HE16H3007  
Acquired : Aug 30, 2012 18:46:07  
Printed : Aug 31, 2012 09:51:51  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	161263.0	1068.05	160.00	Vx
3,5 Dichlorobenzoic	5.825	162714.0	1136.62	160.00	BV
4-Nitrophenol	6.350	83733.0	565.13	160.00	BV
DCPAA	6.567	727646.0	523.45	1600.00	VV
Dicamba	6.733	336404.0	2283.43	160.00	VV
MCPA	6.933	32497.0	3.93	8000.00	Vx
MCPA	7.075	50211.0	7.04	8000.00	VB
DCP	7.425	116210.0	802.74	160.00	BV
2,4-D	7.633	146623.0	989.51	160.00	VV
Pentachlorophenol	7.842	1104308.0	7843.35	160.00	VV
Silvex	8.333	488871.0	3292.53	160.00	BV
Chloramben	8.458	387612.0	2404.82	160.00	VV
2,4,5-T	8.550	576806.0	3954.31	160.00	VV
2,4-DB	8.958	85875.0	566.24	160.00	BV
Bentazon/picloram	9.583	687305.0	2079.53	320.00	BV
Dinoseb	9.675	401311.0	2823.13	160.00	VV
Dacthal	9.858	566875.0	3862.33	160.00	VB
Acifluorfen	11.325	424702.0	2657.39	160.00	VV

c:\ezchrom\chrom\wh30\wh30.008 -- Channel A



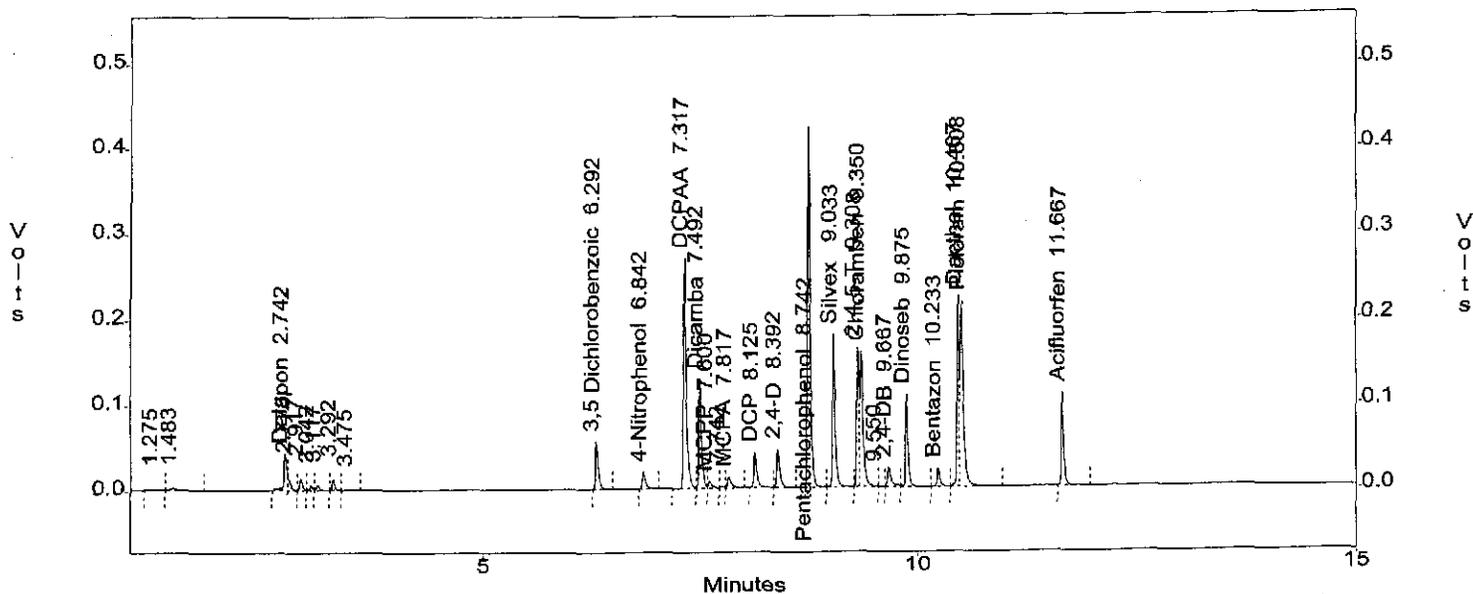
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.008  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3007  
Acquired : Aug 30, 2012 18:46:07  
Printed : Aug 31, 2012 09:51:51  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	110390.0	742.79	160.00	Bx
3,5 Dichlorobenzoic	6.292	129710.0	883.83	160.00	BV
4-Nitrophenol	6.842	51513.0	334.78	160.00	BV
DCPAA	7.317	631278.0	441.16	1600.00	VV
Dicamba	7.492	273528.0	1770.58	160.00	VV
MCPD	7.600	23189.0	2.90	8000.00	VV
MCPA	7.817	38505.0	5.37	8000.00	SV
DCP	8.125	96262.0	660.40	160.00	xV
2,4-D	8.392	110923.0	753.13	160.00	VB
Pentachlorophenol	8.742	933098.0	6174.46	160.00	BV
Silvex	9.033	390729.0	2503.01	160.00	VV
2,4,5-T	9.308	305873.0	1904.03	160.00	Vx
Chloramben	9.350	423040.0	2691.20	160.00	xx
2,4-DB	9.667	65893.0	434.49	160.00	VV
Dinoseb	9.875	208451.0	1340.73	160.00	VV
Bentazon	10.233	47790.0	310.67	160.00	VV
Dacthal	10.467	370023.0	2450.54	160.00	Vx
Picloram	10.508	632446.0	3772.71	160.00	xB
Acifluorfen	11.667	219976.0	1369.06	160.00	BV

c:\ezchrom\chrom\wh30\wh30.008 -- Channel B



9/14/12  
5040

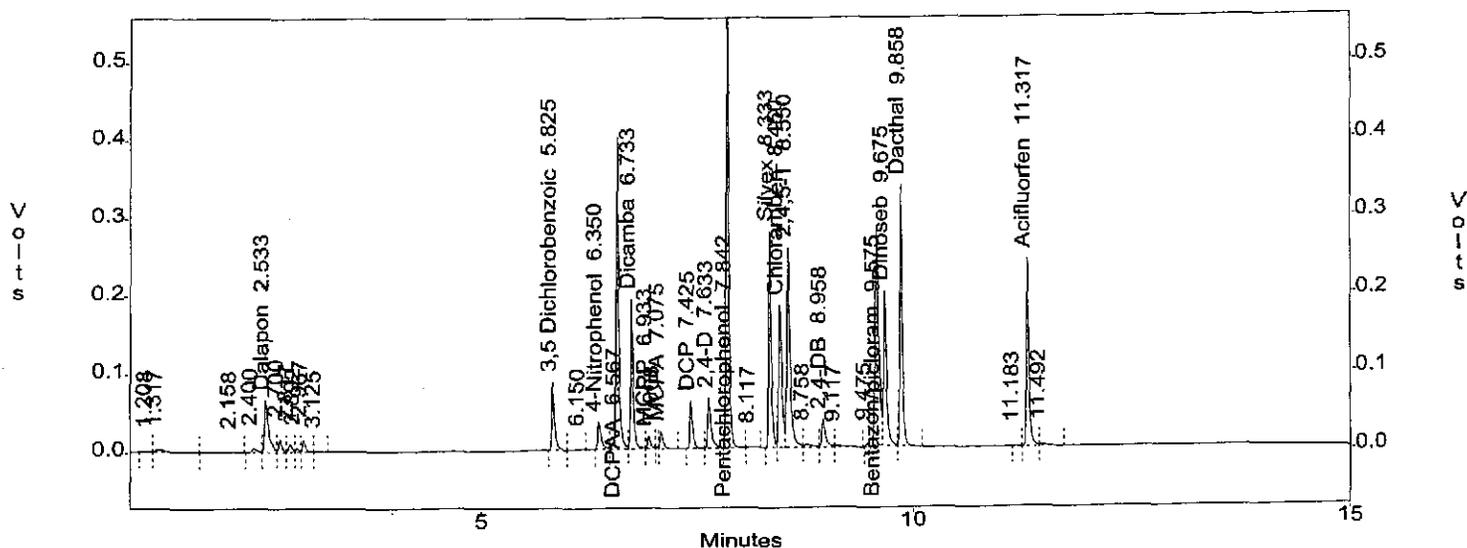
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.009  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3008  
Acquired : Aug 30, 2012 19:06:13  
Printed : Aug 31, 2012 09:51:57  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc (ppb)	ICODE
Dalapon	2.533	219708.0	1068.05	200.00	Vx
3,5 Dichlorobenzoic	5.825	193469.0	1136.62	200.00	BV
4-Nitrophenol	6.350	100066.0	565.13	200.00	BV
DCPAA	6.567	868754.0	523.45	2000.00	VV
Dicamba	6.733	403331.0	2283.43	200.00	VV
MCPA	6.933	39917.0	3.93	10000.00	Vx
MCPA	7.075	58953.0	7.04	10000.00	VB
DCP	7.425	138689.0	802.74	200.00	BV
2,4-D	7.633	175974.0	989.51	200.00	VV
Pentachlorophenol	7.842	1320726.0	7843.35	200.00	VV
Silvex	8.333	587008.0	3292.53	200.00	BV
Chloramben	8.450	478607.0	2404.82	200.00	VV
2,4,5-T	8.550	688798.0	3954.31	200.00	VV
2,4-DB	8.958	109058.0	566.24	200.00	VV
Bentazon/picloram	9.575	851335.0	2079.53	400.00	BV
Dinoseb	9.675	460440.0	2823.13	200.00	VV
Dacthal	9.858	672118.0	3862.33	200.00	VB
Acifluorfen	11.317	518167.0	2657.39	200.00	VV

c:\ezchrom\chrom\wh30\wh30.009 -- Channel A



9/24/12

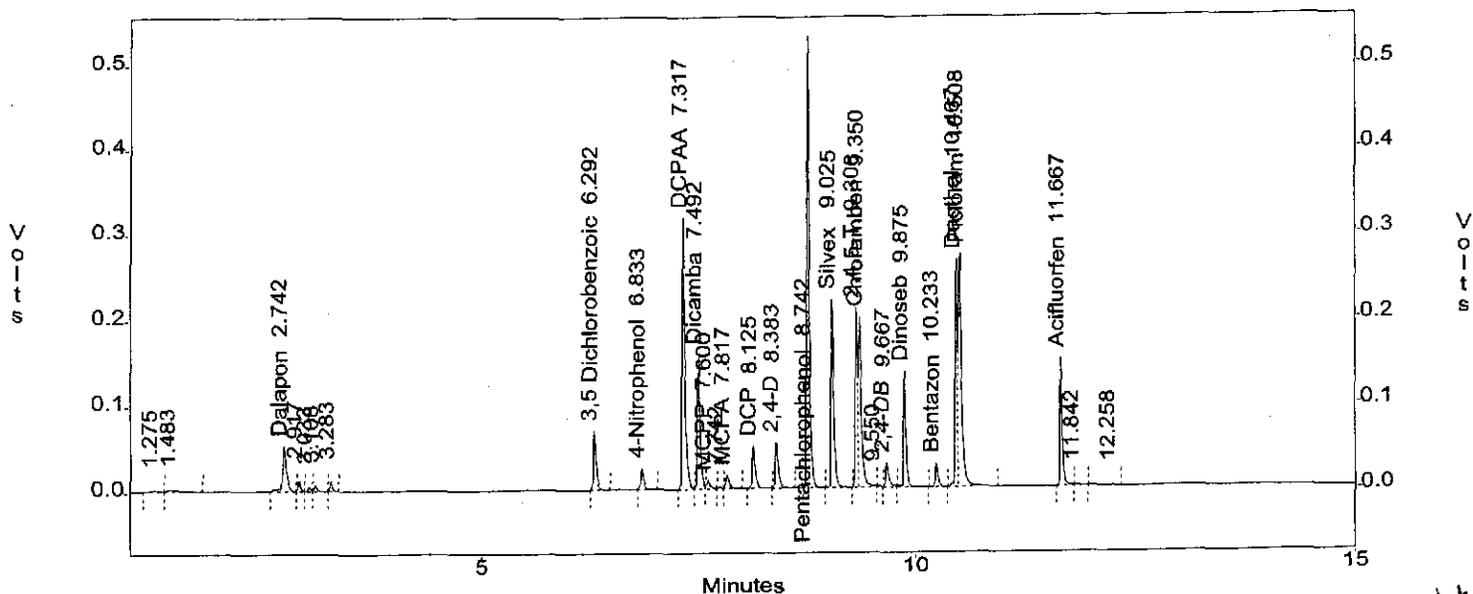
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.009  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : HE16H3008  
Acquired : Aug 30, 2012 19:06:13  
Printed : Aug 31, 2012 09:51:57  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	169127.0	742.79	200.00	BV
3,5 Dichlorobenzoic	6.292	156483.0	883.83	200.00	BV
4-Nitrophenol	6.833	62330.0	334.78	200.00	BV
DCPAA	7.317	762496.0	441.16	2000.00	VV
Dicamba	7.492	334016.0	1770.58	200.00	VV
MCPP	7.600	28298.0	2.90	10000.00	VV
MCPA	7.817	45182.0	5.37	10000.00	SV
DCP	8.125	115621.0	660.40	200.00	xV
2,4-D	8.383	133903.0	753.13	200.00	VB
Pentachlorophenol	8.742	1132910.0	6174.46	200.00	BV
Silvex	9.025	475375.0	2503.01	200.00	VV
2,4,5-T	9.308	390877.0	1904.03	200.00	Vx
Chloramben	9.350	499696.0	2691.20	200.00	xx
2,4-DB	9.667	79577.0	434.49	200.00	SV
Dinoseb	9.875	255511.0	1340.73	200.00	VV
Bentazon	10.233	60174.0	310.67	200.00	VV
Dacthal	10.467	466940.0	2450.54	200.00	Vx
Picloram	10.508	762551.0	3772.71	200.00	xB
Acifluorfen	11.667	271868.0	1369.06	200.00	BS

c:\ezchrom\chrom\wh30\wh30.009 - Channel B



2-9-12/12  
5050

# **SECOND SOURCE VERIFICATION**

INITIAL CALIBRATION VERIFICATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPEST  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006A 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30010A 08/30/2012 19:26  
 CONC UNIT : ppb

COMPOUND	RT	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT			QL	%D	LIMITS
	MINUTES	FROM	TO			AREA	CONC	%D			
Dalapon	2.542	2.526	2.558	100.0	1068.1	104324	97.68	-2		15	
3,5-Dichlorobenzo	5.825	5.809	5.841	100.0	1136.6	104933	92.32	-8		15	
4-Nitrophenol	6.358	6.344	6.372	100.0	565.100	53220	94.17	-6		15	
Dicamba	6.733	6.717	6.749	100.0	2283.4	215680	94.45	-6		15	
Dichloroprop	7.425	7.409	7.441	100.0	802.700	78010	97.18	-3		15	
2,4-D	7.633	7.619	7.647	100.0	989.500	93819	94.81	-5		15	
Pentachlorophenol	7.842	7.828	7.856	100.0	7843.4	730896	93.19	-7		15	
2,4,5-TP(Silvex)	8.333	8.317	8.349	100.0	3292.5	316684	96.18	-4		15	
Chloramben	8.458	8.444	8.472	100.0	2404.8	238880	99.33	-1		15	
2,4,5-T	8.550	8.534	8.566	100.0	3954.3	401026	101.42	1		15	
2,4-DB	8.967	8.951	8.983	100.0	566.200	55672	98.32	-2		15	
Bentazon/Picloram	9.583	9.567	9.599	200.0	2079.5	427620	205.63	3		15	
Dinoseb	9.675	9.661	9.689	100.0	2823.1	250220	88.63	-11		15	
Dacthal	9.858	9.844	9.872	100.0	3862.3	381570	98.79	-1		15	
Acifluorfen	11.325	11.309	11.341	100.0	2657.4	268610	101.08	1		15	
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS	
2,4-DCPAA	6.567	6.551	6.583	1000.0	523.500	480431	917.81	-8		15	

9/14/12  
5052

INITIAL CALIBRATION VERIFICATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPESTII  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006B 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30010B 08/30/2012 19:26  
 CONC UNIT : ppb

COMPOUND	RT	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT			QL	%D LIMITS
	MINUTES	FROM	TO			AREA	CONC	%D		
Dalapon	2.742	2.726	2.758	100.0	742.800	76999	103.66	4	15	
3,5-Dichlorobenzo	6.292	6.278	6.306	100.0	883.800	80163	90.70	-9	15	
4-Nitrophenol	6.842	6.826	6.858	100.0	334.800	32188	96.15	-4	15	
Dicamba	7.492	7.476	7.508	100.0	1770.6	168745	95.31	-5	15	
Dichloroprop	8.125	8.111	8.139	100.0	660.400	72282	109.45	9	15	
2,4-D	8.392	8.378	8.406	100.0	753.100	78614	104.38	4	15	
Pentachlorophenol	8.742	8.726	8.758	100.0	6174.5	613543	99.37	-1	15	
2,4,5-TP(Silvex)	9.033	9.017	9.049	100.0	2503.0	248912	99.44	-1	15	
Chloramben	9.350	9.336	9.364	100.0	2691.2	273902	101.78	2	15	
2,4,5-T	9.317	9.301	9.333	100.0	1904.0	202510	106.36	6	15	
2,4-DB	9.667	9.653	9.681	100.0	434.500	48469	111.55	12	15	
Bentazon/Picloram	0.000	-0.014	0.014	200.0	0.000	0	205.63	3	15	
Dinoseb	9.875	9.861	9.889	100.0	1340.7	128948	96.18	-4	15	
Bentazon	10.233	10.219	10.247	100.0	310.700	32693	105.23	5	15	
Oacthal	10.467	10.453	10.481	100.0	2450.5	276132	112.68	13	15	
Picloram	10.508	10.478	10.538	100.0	3772.7	352437	93.42	-7	15	
Acifluorfen	11.667	11.651	11.683	100.0	1369.1	136698	99.85	-0	15	
SURROGATE	MINUTES	FROM	TO	TRUECONC	CF	AREA	CONC	%D	QL	LIMITS
2,4-DCPAA	7.317	7.303	7.331	1000.0	441.200	410487	930.46	-7	15	

9/4/12  
5653

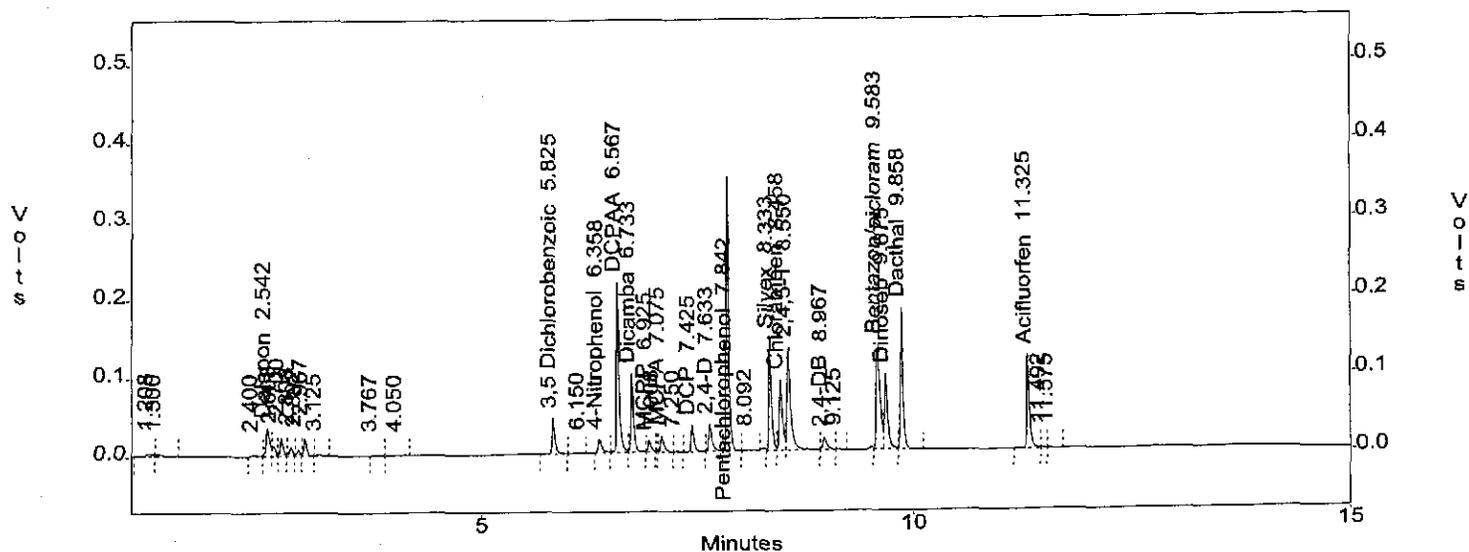
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.010  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : IHE16H3001  
Acquired : Aug 30, 2012 19:26:24  
Printed : Aug 31, 2012 10:00:14  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	104324.0	1068.05	97.68	VS
3,5 Dichlorobenzoic	5.825	104933.0	1136.62	92.32	BV
4-Nitrophenol	6.358	53220.0	565.13	94.17	BV
DCPAA	6.567	480431.0	523.45	917.81	VV
Dicamba	6.733	215680.0	2283.43	94.45	VV
MCPP	6.925	35594.0	3.93	9054.62	Vx
MCPA	7.075	58382.0	7.04	8298.18	VV
DCP	7.425	78010.0	802.74	97.18	VV
2,4-D	7.633	93819.0	989.51	94.81	VV
Pentachlorophenol	7.842	730896.0	7843.35	93.19	VV
Silvex	8.333	316684.0	3292.53	96.18	BV
Chloramben	8.458	238880.0	2404.82	99.33	VV
2,4,5-T	8.550	401026.0	3954.31	101.41	VV
2,4-DB	8.967	55672.0	566.24	98.32	VV
Bentazon/picloram	9.583	427620.0	2079.53	205.63	BV
Dinoseb	9.675	250220.0	2823.13	88.63	VV
Dacthal	9.858	381570.0	3862.33	98.79	VB
Acifluorfen	11.325	268610.0	2657.39	101.08	BV

c:\ezchrom\chrom\wh30\wh30.010 -- Channel A



914117  
5804

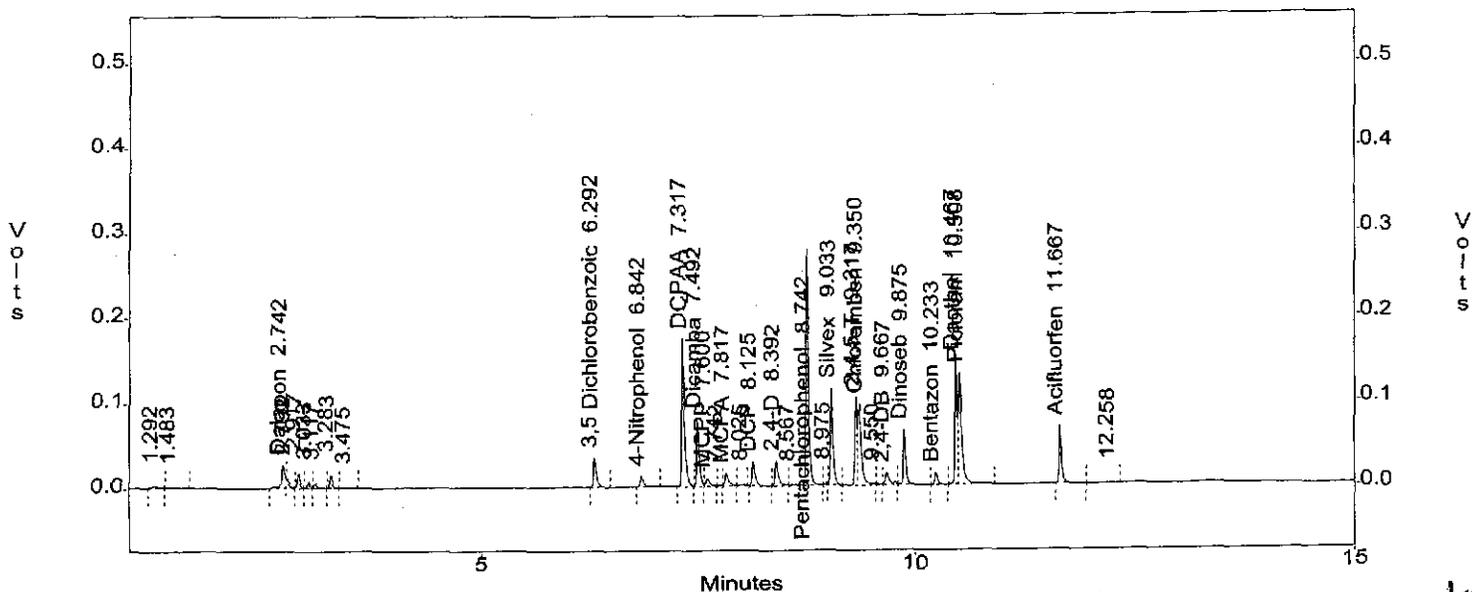
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.010  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : IHE16H3001  
Acquired : Aug 30, 2012 19:26:24  
Printed : Aug 31, 2012 10:00:14  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	76999.0	742.79	103.66	Bx
3,5 Dichlorobenzoic	6.292	80163.0	883.83	90.70	BV
4-Nitrophenol	6.842	32188.0	334.78	96.15	BB
DCPAA	7.317	410487.0	441.16	930.46	BV
Dicamba	7.492	168745.0	1770.58	95.31	VV
MCPP	7.600	27312.0	2.90	9412.08	VV
MCPA	7.817	46144.0	5.37	8596.67	SV
DCP	8.125	72282.0	660.40	109.45	VV
2,4-D	8.392	78614.0	753.13	104.38	VV
Pentachlorophenol	8.742	613543.0	6174.46	99.37	VV
Silvex	9.033	248912.0	2503.01	99.44	SV
2,4,5-T	9.317	202510.0	1904.03	106.36	Vx
Chloramben	9.350	273902.0	2691.20	101.78	xx
2,4-DB	9.667	48469.0	434.49	111.55	VV
Dinoseb	9.875	128948.0	1340.73	96.18	VV
Bentazon	10.233	32693.0	310.67	105.23	VV
Dacthal	10.467	276132.0	2450.54	112.68	Vx
Picloram	10.508	352437.0	3772.71	93.42	xV
Acifluorfen	11.667	136698.0	1369.06	99.85	BV

c:\ezchrom\chrom\wh30\wh30.010 -- Channel B



INITIAL CALIBRATION VERIFICATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPEST  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006A 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30011A 08/30/2012 19:46  
 CONC UNIT : ppb

COMPOUND	RT	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
	MINUTES	FROM	TO			AREA	CONC			
MCP	6.933	6.917	6.949	5000.0	3.900	18468	4698.00	-6		15
MCPA	7.075	7.061	7.089	5000.0	7.000	34975	4971.21	-1		15

*2-9/14/12*  
5656

INITIAL CALIBRATION VERIFICATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPEST11  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006B 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30011B 08/30/2012 19:46  
 CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
MCPP	7.600	7.586	7.614	5000.0	2.900	13917	4795.98	-4		15
MCPA	7.817	7.801	7.833	5000.0	5.400	27124	5053.23	1		15

9/4/12  
5057

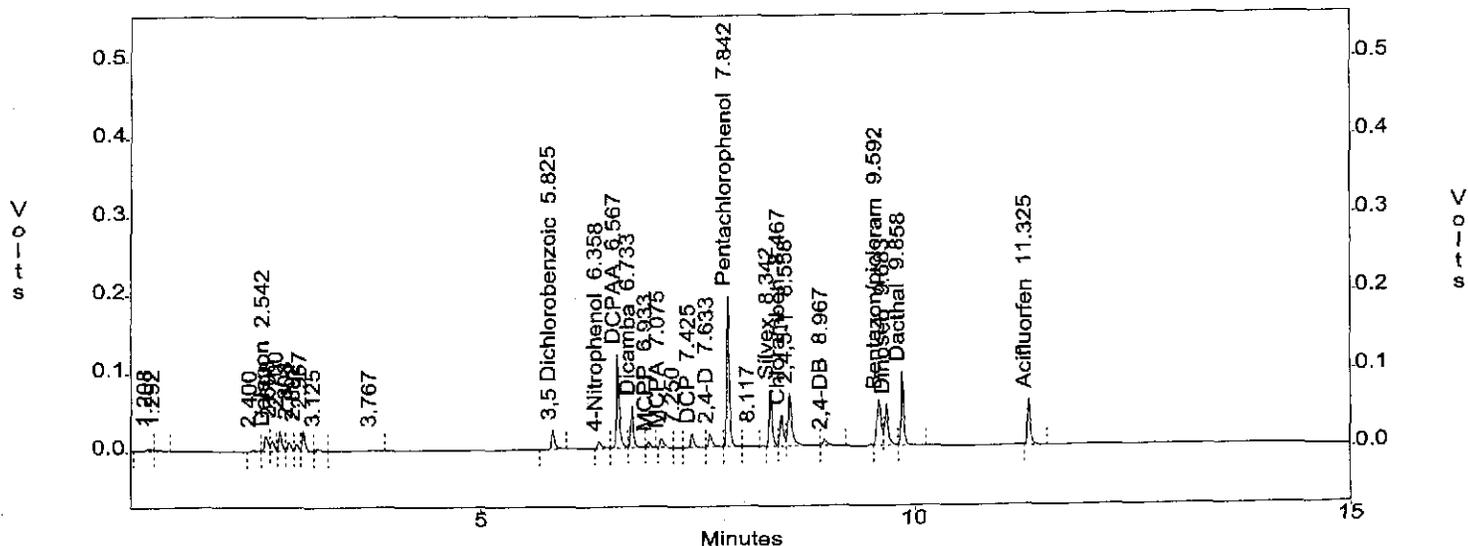
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.011  
Method : c:\ezchrom\methods\hel6h30.met  
Sample ID : IHE16H3002  
Acquired : Aug 30, 2012 19:46:34  
Printed : Aug 31, 2012 10:00:55  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc (ppb)	ICODE
Dalapon	2.542	56301.0	1068.05	52.71	VV
3,5 Dichlorobenzoic	5.825	59194.0	1136.62	52.08	BV
4-Nitrophenol	6.358	29560.0	565.13	52.31	BV
DCPAA	6.567	281119.0	523.45	537.05	VV
Dicamba	6.733	120583.0	2283.43	52.81	VV
MCPA	6.933	18468.0	3.93	4698.00	Vx
MCPA	7.075	34975.0	7.04	4971.20	VV
DCP	7.425	43471.0	802.74	54.15	VV
2,4-D	7.633	51386.0	989.51	51.93	VV
Pentachlorophenol	7.842	408786.0	7843.35	52.12	VV
Silvex	8.342	171270.0	3292.53	52.02	BV
Chloramben	8.467	117835.0	2404.82	49.00	VV
2,4,5-T	8.558	219849.0	3954.31	55.60	VV
2,4-DB	8.967	32680.0	566.24	57.71	VV
Bentazon/picloram	9.592	199995.0	2079.53	96.17	BV
Dinoseb	9.683	147933.0	2823.13	52.40	VV
Dacthal	9.858	213021.0	3862.33	55.15	VB
Acifluorfen	11.325	136617.0	2657.39	51.41	BV

c:\ezchrom\chrom\wh30\wh30.011 -- Channel A



9/14/12  
5058

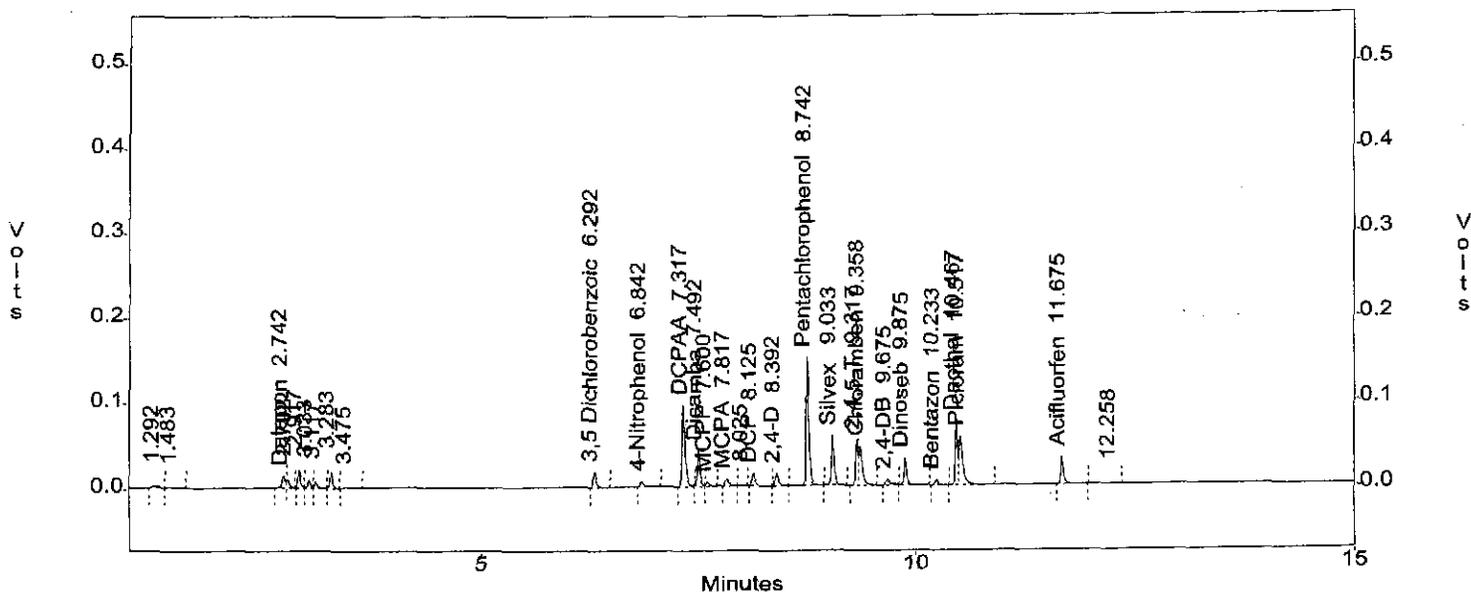
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.011  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : IHE16H3002  
Acquired : Aug 30, 2012 19:46:34  
Printed : Aug 31, 2012 10:00:55  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	33160.0	742.79	44.64	MM
3,5 Dichlorobenzoic	6.292	44063.0	883.83	49.85	BV
4-Nitrophenol	6.842	17293.0	334.78	51.66	BB
DCPAA	7.317	231576.0	441.16	524.92	BV
Dicamba	7.492	88584.0	1770.58	50.03	VV
MCPA	7.600	13917.0	2.90	4795.98	VV
MCPA	7.817	27124.0	5.37	5053.23	SV
DCP	8.125	38265.0	660.40	57.94	VV
2,4-D	8.392	41116.0	753.13	54.59	VV
Pentachlorophenol	8.742	324043.0	6174.46	52.48	VV
Silvex	9.033	125957.0	2503.01	50.32	VB
2,4,5-T	9.317	93036.0	1904.03	48.86	Bx
Chloramben	9.358	140282.0	2691.20	52.13	xx
2,4-DB	9.675	24018.0	434.49	55.28	VV
Dinoseb	9.875	65708.0	1340.73	49.01	VV
Bentazon	10.233	16254.0	310.67	52.32	VV
Dacthal	10.467	137829.0	2450.54	56.24	Vx
Picloram	10.517	175977.0	3772.71	46.64	xV
Acifluorfen	11.675	70230.0	1369.06	51.30	BV

c:\ezchrom\chrom\wh30\wh30.011 - Channel B



9/14/12  
5050

# DAILY CALIBRATIONS

CONTINUE CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPEST  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006A 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30012A 08/30/2012 20:06  
 CONC UNIT : ppb

COMPOUND	RT	RT WINDOW		TRUE	AVERAGE	RESULT			%D
	MINUTES	FROM	TO	CONC	CF	AREA	CONC	%D	QL LIMITS
Dinoseb	9.683	9.669	9.697	100.0	2823.1	282014	99.89	-0	20
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL LIMITS
2,4-DCPAA	6.567	6.551	6.583	1000.0	523.500	497334	950.10	-5	20

CONTINUE CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPESTII  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006B 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30012B 08/30/2012 20:06  
 CONC UNIT : ppb

COMPOUND	RT	RT WINDOW		TRUE	AVERAGE	RESULT			%D
	MINUTES	FROM	TO	CONC	CF	AREA	CONC	%D	QL LIMITS
Dinoseb	9.875	9.861	9.889	100.0	1340.7	135551	101.10	1	20
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL LIMITS
2,4-DCPAA	7.317	7.303	7.331	1000.0	441.200	422495	957.68	-4	20

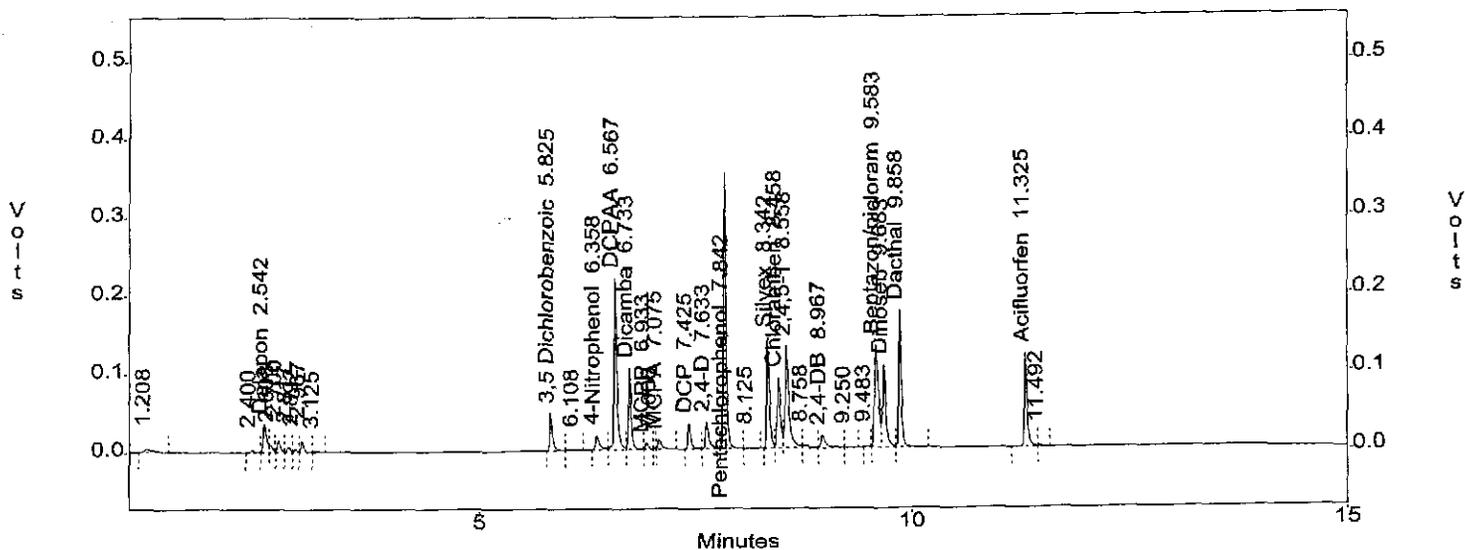
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.012  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : CHE16H3001  
Acquired : Aug 30, 2012 20:06:48  
Printed : Aug 31, 2012 10:10:24  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.542	103517.0	1068.05	96.92	VS
3,5 Dichlorobenzoic	5.825	110275.0	1136.62	97.02	BV
4-Nitrophenol	6.358	56558.0	565.13	100.08	BV
DCPAA	6.567	497334.0	523.45	950.10	VV
Dicamba	6.733	226289.0	2283.43	99.10	VV
MCCP	6.933	20250.0	3.93	5151.32	Vx
MCPA	7.075	35175.0	7.04	4999.63	VB
DCP	7.425	78135.0	802.74	97.33	BV
2,4-D	7.633	97746.0	989.51	98.78	VV
Pentachlorophenol	7.842	737240.0	7843.35	94.00	VV
Silvex	8.342	326847.0	3292.53	99.27	BV
Chloramben	8.458	244243.0	2404.82	101.56	VV
2,4,5-T	8.558	397075.0	3954.31	100.42	VV
2,4-DB	8.967	62963.0	566.24	111.19	VV
Bentazon/picloram	9.583	427322.0	2079.53	205.49	BV
Dinoseb	9.683	282014.0	2823.13	99.89	VV
Dacthal	9.858	383899.0	3862.33	99.40	VB
Acifluorfen	11.325	271875.0	2657.39	102.31	BV

c:\ezchrom\chrom\wh30\wh30.012 -- Channel A



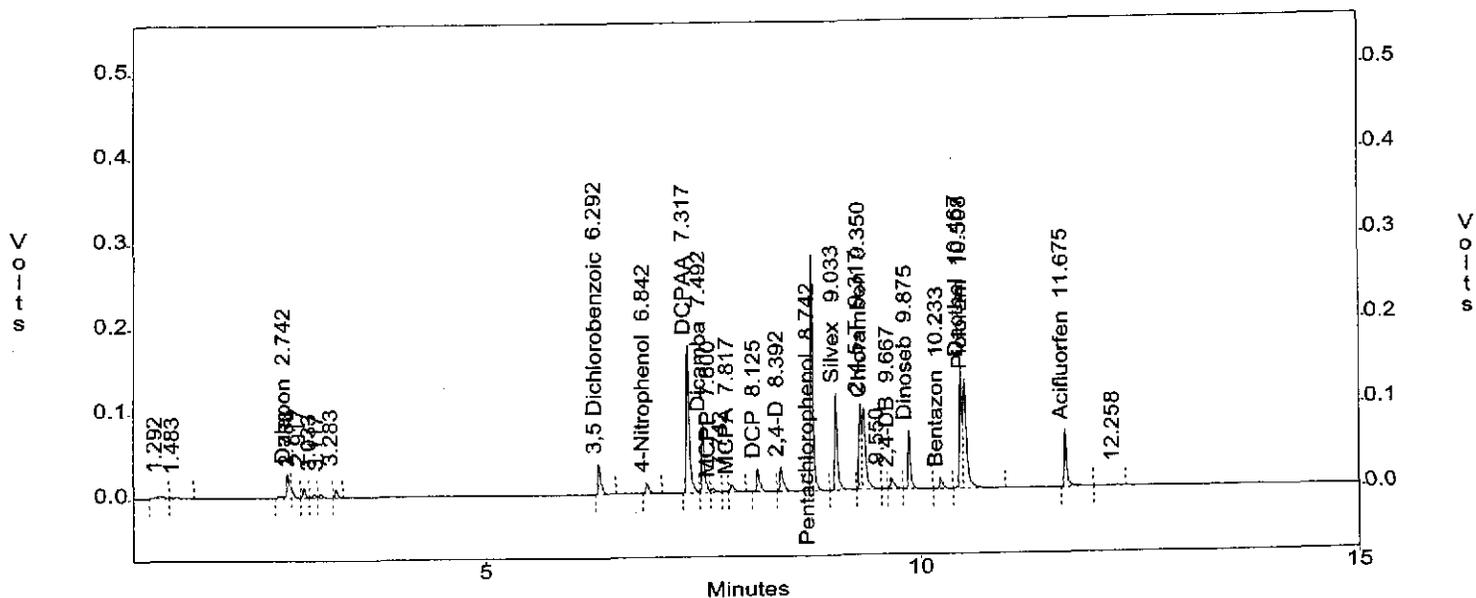
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.012  
 Method : c:\ezchrom\methods\he16h30.met  
 Sample ID : CHE16H3001  
 Acquired : Aug 30, 2012 20:06:48  
 Printed : Aug 31, 2012 10:10:24  
 User : Supakit

Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	77728.0	742.79	104.64	Bx
3,5 Dichlorobenzoic	6.292	86062.0	883.83	97.37	BV
4-Nitrophenol	6.842	33035.0	334.78	98.68	BV
DCPAA	7.317	422495.0	441.16	957.68	BV
Dicamba	7.492	176608.0	1770.58	99.75	VV
MCPP	7.600	14917.0	2.90	5140.60	VV
MCPA	7.817	27402.0	5.37	5105.02	SV
DCP	8.125	64701.0	660.40	97.97	xV
2,4-D	8.392	73836.0	753.13	98.04	VB
Pentachlorophenol	8.742	603935.0	6174.46	97.81	BV
Silvex	9.033	250451.0	2503.01	100.06	VV
2,4,5-T	9.317	189923.0	1904.03	99.75	Vx
Chloramben	9.350	276153.0	2691.20	102.61	xx
2,4-DB	9.667	42990.0	434.49	98.94	VV
Dinoseb	9.875	135551.0	1340.73	101.10	VV
Bentazon	10.233	30183.0	310.67	97.15	VV
Dacthal	10.467	272299.0	2450.54	111.12	Vx
Picloram	10.508	361780.0	3772.71	95.89	xV
Acifluorfen	11.675	141703.0	1369.06	103.50	BV

c:\ezchrom\chrom\wh30\wh30.012 -- Channel B



CONTINUE CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPEST  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006A 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30024A 08/31/2012 00:08  
 CONC UNIT : ppb

COMPOUND	RT	RT WINDOW		TRUE	AVERAGE	RESULT			%D
	MINUTES	FROM	TO	CONC	CF	AREA	CONC	%D	QL LIMITS
Dinoseb	9.675	9.661	9.689	100.0	2823.1	254289	90.07	-10	20
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL LIMITS
2,4-DCPAA	6.567	6.551	6.583	1000.0	523.500	501941	958.90	-4	20

CONTINUE CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPESTII  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006B 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30024B 08/31/2012 00:08  
 CONC UNIT : ppb

COMPOUND	RT	RT WINDOW		TRUE	AVERAGE	RESULT			%D	QL	LIMITS
	MINUTES	FROM	TO	CONC	CF	AREA	CONC	%D			
Dinoseb	9.875	9.861	9.889	100.0	1340.7	101160	75.45	-25	*	20	
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS	
2,4-DCPAA	7.308	7.294	7.322	1000.0	441.200	434908	985.82	-1		20	

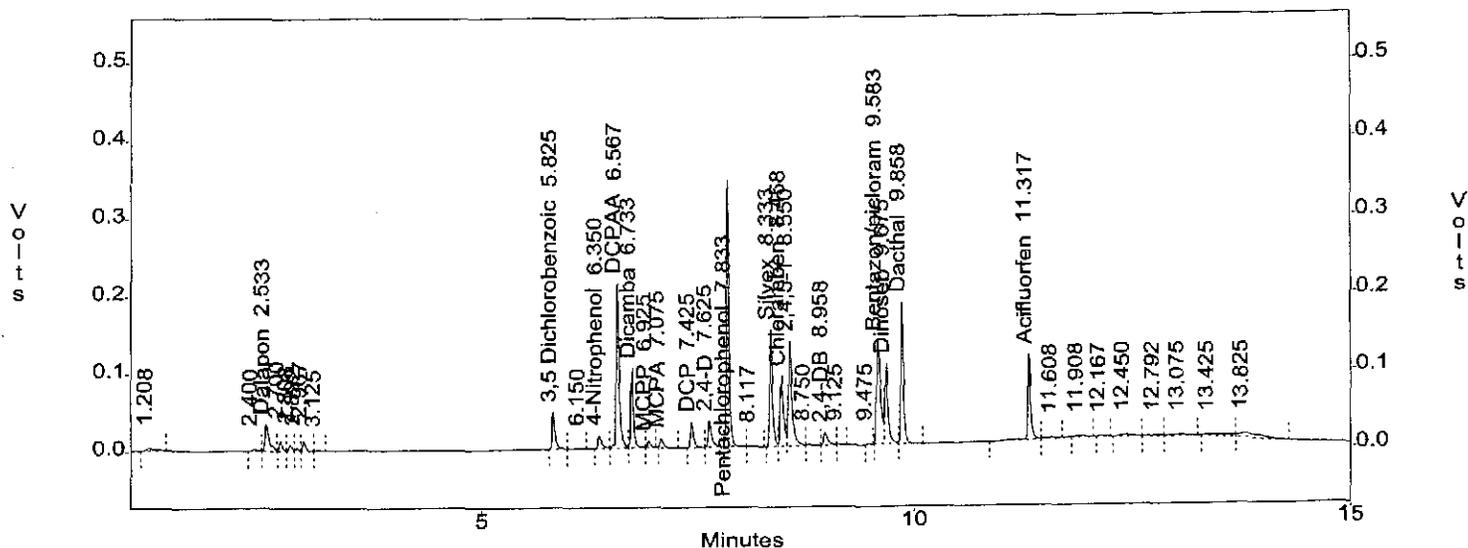
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.024  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : CHE16H3002  
Acquired : Aug 31, 2012 00:08:37  
Printed : Aug 31, 2012 10:15:42  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc (ppb)	ICODE
Dalapon	2.533	119396.0	1068.05	111.79	Vx
3,5 Dichlorobenzoic	5.825	110331.0	1136.62	97.07	BV
4-Nitrophenol	6.350	50866.0	565.13	90.01	BV
DCPAA	6.567	501941.0	523.45	958.90	VV
Dicamba	6.733	226487.0	2283.43	99.19	VV
MCPP	6.925	20084.0	3.93	5109.09	Vx
MCPA	7.075	34689.0	7.04	4930.55	VB
DCP	7.425	78613.0	802.74	97.93	BV
2,4-D	7.625	98819.0	989.51	99.87	VV
Pentachlorophenol	7.833	742543.0	7843.35	94.67	VV
Silvex	8.333	329031.0	3292.53	99.93	BV
Chloramben	8.458	249431.0	2404.82	103.72	VV
2,4,5-T	8.550	392090.0	3954.31	99.16	VV
2,4-DB	8.958	53923.0	566.24	95.23	VV
Bentazon/picloram	9.583	437940.0	2079.53	210.60	BV
Dinoseb	9.675	254289.0	2823.13	90.07	VV
Dacthal	9.858	377715.0	3862.33	97.79	VV
Acifluorfen	11.317	263310.0	2657.39	99.09	BV

c:\ezchrom\chrom\wh30\wh30.024 -- Channel A



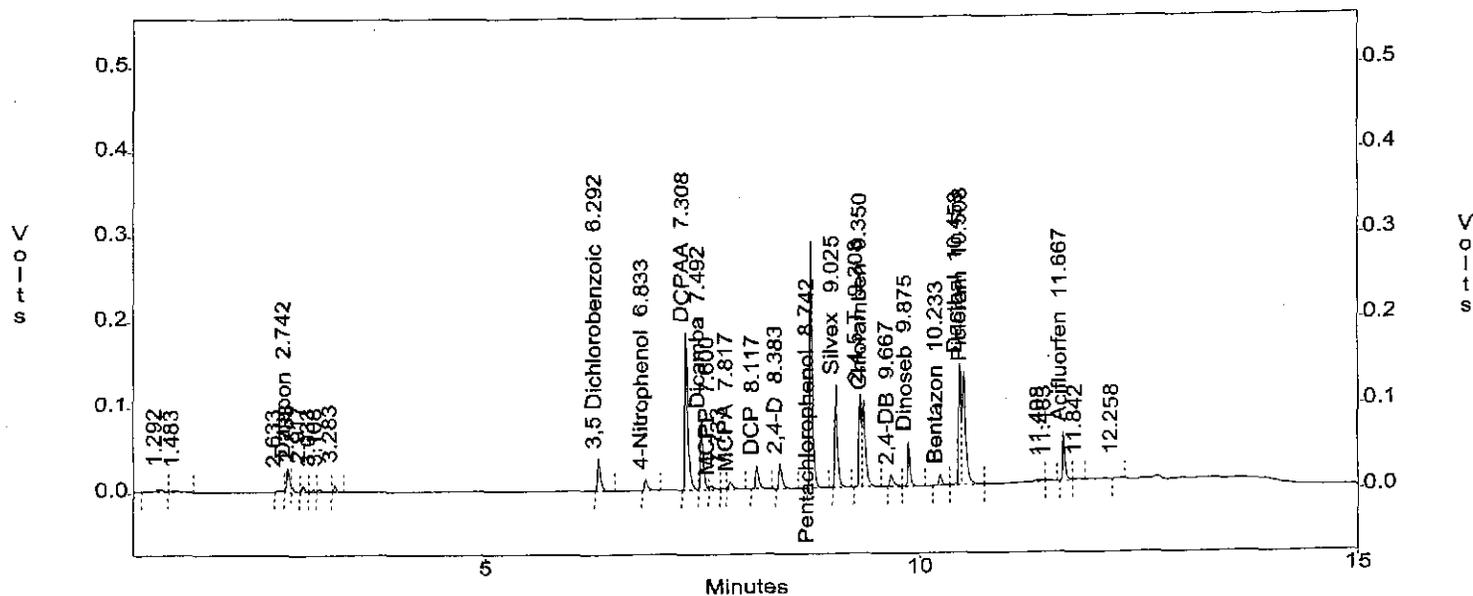
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.024  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : CHE16H3002  
Acquired : Aug 31, 2012 00:08:37  
Printed : Aug 31, 2012 10:15:42  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	67575.0	742.79	90.97	Vx
3,5 Dichlorobenzoic	6.292	87683.0	883.83	99.21	BV
4-Nitrophenol	6.833	32076.0	334.78	95.81	BV
DCPAA	7.308	434908.0	441.16	985.82	BV
Dicamba	7.492	179162.0	1770.58	101.19	VV
MCPP	7.600	14641.0	2.90	5045.48	VV
MCPA	7.817	27078.0	5.37	5044.66	SV
DCP	8.117	64406.0	660.40	97.53	xV
2,4-D	8.383	75692.0	753.13	100.50	VV
Pentachlorophenol	8.742	612612.0	6174.46	99.22	VV
Silvex	9.025	251219.0	2503.01	100.37	VB
2,4,5-T	9.308	209561.0	1904.03	110.06	Bx
Chloramben	9.350	265735.0	2691.20	98.74	xx
2,4-DB	9.667	40463.0	434.49	93.13	VV
Dinoseb	9.875	101160.0	1340.73	75.45	VV
Bentazon	10.233	29075.0	310.67	93.59	VV
Dacthal	10.458	252867.0	2450.54	103.19	Vx
Picloram	10.508	388744.0	3772.71	103.04	xV
Acifluorfen	11.667	108137.0	1369.06	78.99	BV

c:\ezchrom\chrom\wh30\wh30.024 -- Channel B



CONTINUE CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPEST  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006A 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30032A 08/31/2012 02:49  
 CONC UNIT : ppb

COMPOUND	RT	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT			%D	QL	LIMITS
	MINUTES	FROM	TO			AREA	CONC				
Dinoseb	9.675	9.661	9.689	100.0	2823.1	258952	91.72	-8			20
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS	
2,4-DCPAA	6.567	6.551	6.583	1000.0	523.500	504345	963.49	-4			20

CONTINUE CALIBRATION  
METHOD 8151

Lab Name : EMAX Inc  
 Instrument ID : GC-W GC16  
 GC Column : STX-CLPEST11  
 Column size ID : 30MX0.32MM 0.32UM  
 Mid Conc Init LFID & Datetime: WH30006B 08/30/2012 18:05  
 Conc Cont LFID & Datetime: WH30032B 08/31/2012 02:49  
 CONC UNIT : ppb

COMPOUND	RT	RT WINDOW		TRUE	AVERAGE	RESULT			%D	QL	LIMITS
	MINUTES	FROM	TO	CONC	CF	AREA	CONC	%D			
Dinoseb	9.875	9.861	9.889	100.0	1340.7	100500	74.96	-25	*	20	
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS	
2,4-DCPAA	7.308	7.294	7.322	1000.0	441.200	436626	989.71	-1		20	

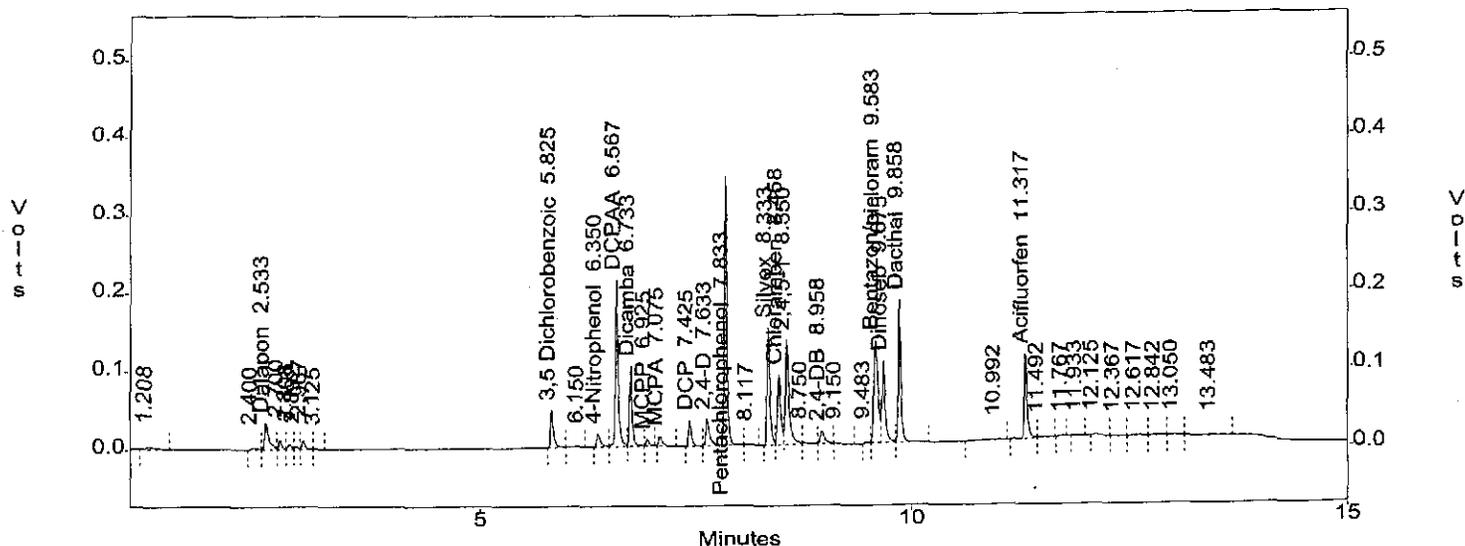
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.032  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : CHE16H3003  
Acquired : Aug 31, 2012 02:49:46  
Printed : Aug 31, 2012 10:17:02  
User : Supakit

## Channel A Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.533	115491.0	1068.05	108.13	Vx
3,5 Dichlorobenzoic	5.825	110479.0	1136.62	97.20	BV
4-Nitrophenol	6.350	50444.0	565.13	89.26	BV
DCPAA	6.567	504345.0	523.45	963.49	VV
Dicamba	6.733	227177.0	2283.43	99.49	VV
MCPP	6.925	20526.0	3.93	5221.53	Vx
MCPA	7.075	35333.0	7.04	5022.09	VB
DCP	7.425	79004.0	802.74	98.42	BV
2,4-D	7.633	98792.0	989.51	99.84	VV
Pentachlorophenol	7.833	742028.0	7843.35	94.61	VV
Silvex	8.333	331220.0	3292.53	100.60	BV
Chloramben	8.458	248943.0	2404.82	103.52	VV
2,4,5-T	8.550	399710.0	3954.31	101.08	VV
2,4-DB	8.958	57264.0	566.24	101.13	VV
Bentazon/picloram	9.583	434241.0	2079.53	208.82	BV
Dinoseb	9.675	258952.0	2823.13	91.73	VV
Dacthal	9.858	384406.0	3862.33	99.53	VV
Acifluorfen	11.317	261332.0	2657.39	98.34	VV

c:\ezchrom\chrom\wh30\wh30.032 -- Channel A



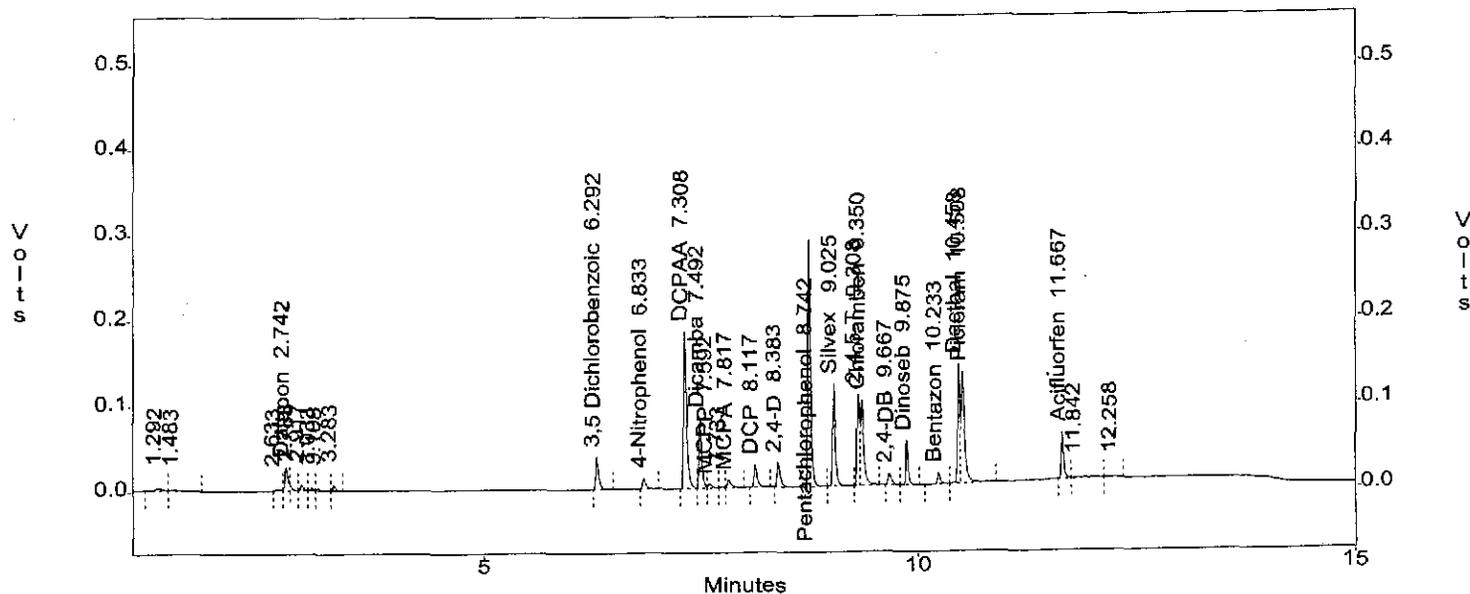
EPA 8151 by GC/ECD  
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\wh30\wh30.032  
Method : c:\ezchrom\methods\he16h30.met  
Sample ID : CHE16H3003  
Acquired : Aug 31, 2012 02:49:46  
Printed : Aug 31, 2012 10:17:03  
User : Supakit

## Channel B Results

Peak Name	RT(min)	Area	Average RF	ESTD Conc(ppb)	ICODE
Dalapon	2.742	68028.0	742.79	91.58	Vx
3,5 Dichlorobenzoic	6.292	88040.0	883.83	99.61	BV
4-Nitrophenol	6.833	31840.0	334.78	95.11	BV
DCPAA	7.308	436626.0	441.16	989.71	BV
Dicamba	7.492	179682.0	1770.58	101.48	VV
MCPP	7.592	14463.0	2.90	4984.14	VV
MCPA	7.817	26843.0	5.37	5000.88	SV
DCP	8.117	64443.0	660.40	97.58	xV
2,4-D	8.383	76227.0	753.13	101.21	VB
Pentachlorophenol	8.742	614729.0	6174.46	99.56	BV
Silvex	9.025	254985.0	2503.01	101.87	VV
2,4,5-T	9.308	209305.0	1904.03	109.93	Vx
Chloramben	9.350	268318.0	2691.20	99.70	xx
2,4-DB	9.667	41215.0	434.49	94.86	VV
Dinoseb	9.875	100500.0	1340.73	74.96	VV
Bentazon	10.233	30926.0	310.67	99.55	VV
Dacthal	10.458	252488.0	2450.54	103.03	Vx
Picloram	10.508	396058.0	3772.71	104.98	xV
Acifluorfen	11.667	105863.0	1369.06	77.33	BV

c:\ezchrom\chrom\wh30\wh30.032 -- Channel B



# **ANALYTICAL LOGS**



Run	Sample ID	Method	Filename	Multi	Description
1	IB16H3001	he16h30.met	WH30.001	1	
2	HE16H3001	he16h30.met	WH30.002	1	
3	HE16H3002	he16h30.met	WH30.003	1	
4	HE16H3003	he16h30.met	WH30.004	1	
5	HE16H3004	he16h30.met	WH30.005	1	
6	HE16H3005	he16h30.met	WH30.006	1	
7	HE16H3006	he16h30.met	WH30.007	1	
8	HE16H3007	he16h30.met	WH30.008	1	
9	HE16H3008	he16h30.met	WH30.009	1	
10	IHE16H3001	he16h30.met	WH30.010	1	
11	IHE16H3002	he16h30.met	WH30.011	1	
12	CHE16H3001	he16h30.met	WH30.012	1	
13	HEH006WB	he16h30.met	WH30.013	1	
14	HEH006WL	he16h30.met	WH30.014	1	
15	HEH006WC	he16h30.met	WH30.015	1	
16	H184-03M	he16h30.met	WH30.016	1	
17	H184-03S	he16h30.met	WH30.017	1	
18	H184-03	he16h30.met	WH30.018	1	
19	H173-01	he16h30.met	WH30.019	1	
20	H184-01	he16h30.met	WH30.020	1	
21	H184-02	he16h30.met	WH30.021	1	
22	H184-04	he16h30.met	WH30.022	1	
23	IB16H3002	he16h30.met	WH30.023	1	
24	CHE16H3002	he16h30.met	WH30.024	1	
25	H184-05	he16h30.met	WH30.025	1	

Run	Sample ID	Method	Filename	Unit	Description
26	H184-06	he16h30.met	WH30.026	1	
27	H184-07	he16h30.met	WH30.027	1	
28	H192-01	he16h30.met	WH30.028	1	
29	H192-02	he16h30.met	WH30.029	1	
30	H192-03	he16h30.met	WH30.030	1	
31	IB16H3003	he16h30.met	WH30.031	1	
32	CHE16H3003	he16h30.met	WH30.032	1	
33	IB	he16h30.met	WH30.033	1	

# **EXTRACTION LOGS**

SOP	Rev. #
<input checked="" type="checkbox"/> EMAX-8151	3
<input type="checkbox"/> EMAX-	

Note: For samples, relevant QCs/Standards extracted, refer to attached extraction sequence.

Comments:

Book #: EHE-015  
Preparation Batch: **HEH006W**  
Matrix: **Water**  
Micropipette ID: **PE00-03**  
Micropipette ID:

Standards	ID	Amount Added (ml)
Surrogate	SS4B-02-50-2	1.0
LCS/MS	SS4B-02-48-2	0.25
Reagent	Lot # / ID	
CH <sub>2</sub> Cl <sub>2</sub>	-	
Hexane	51257	
Ethyl Ether	DG 045	
Acified Na <sub>2</sub> SO <sub>4</sub>	SP1B-04-217	
H <sub>2</sub> SO <sub>4</sub>	3111070	
KOH	-	
Diazo-methane	SP1B-04-246	
Methanol	51145	
Iso Octane	SP1A-03-035	
Silica Sand	CL'ship 20221	
Silicic Acid	SP1A-03-041	
Reagent water	TUNING SW1A-04-825	547
Sonicator #	Reading	ML
	N/A	8/29/17

Lab Sample ID	Sonicator #	Concentrator #
HEH006 WB	N/A	1
↓ - WL		1
↓ - WC		1
12H173-01 ✓		1
12H184-01 ✓		2
↓ -02 ✓		2
↓ -03 ✓		2
↓ -04 ✓		2
↓ -05 ✓		2
↓ -06 ✓		2
↓ -03M ✓		3
↓ -035 ✓		3
↓ -07 ✓		3
12H192-01 ✓		3
↓ -02 ✓		3
↓ -03 ✓		3

MLP/29/17

Concentrator Water Bath Temperature (°C)		
1	35	35
2	35	35
3	35	35

Test Thermometer = T<sub>1</sub>  
Prepared By: **ML** Standard Added By: **ML**  
Witnessed By: **CS** Checked By: **JM**  
Extract Received By: **ML** Extract Location: **SE048U**  
Disposal Date: Disposed By:

