



11/29/11

Technical Report for

KRW Consulting, Inc.

XOM FRU 297-17A

1108-13A

Accutest Job Number: D29645

Sampling Date: 11/18/11

Report to:

KRW Consulting, Inc.
8000 West 14th Avenue Suite 200
Lakewood, CO 80214
cburger@krwconsulting.com; gknell@krwconsulting.com;
dknudson@krwconsulting.com; jhess@krwconsulting.com;
ATTN: Dwayne Knudson

Total number of pages in report: 55



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


Brad Madadian
Laboratory Director

Client Service contact: 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

KRW Consulting, Inc.

Job No: D29645

XOM FRU 297-17A
Project No: 1108-13A

Sample Number	Collected		Matrix Code	Type	Client Sample ID
	Date	Time By			
D29645-1	11/18/11	11:25 RR	11/19/11	SO Soil	RESERVE PIT MIX/BLEND 11-18

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: KRW Consulting, Inc.

Job No D29645

Site: XOM FRU 297-17A

Report Dat 11/29/2011 2:24:17 PM

On 11/19/2011, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 2.1 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D29645 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

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

Volatiles by GCMS By Method SW846 8260B

Matrix SO	Batch ID: V3V848
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29644-1MS, D29644-1MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015B

Matrix SO	Batch ID: GGB794
------------------	-------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29577-1MS, D29577-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO	Batch ID: OP4885
------------------	-------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D29644-1MS, D29644-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO	Batch ID: GN12598
------------------	--------------------------

- The data for SM19 2540B M meets quality control requirements.

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

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

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

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	RESERVE PIT MIX/BLEND 11-18	Date Sampled:	11/18/11
Lab Sample ID:	D29645-1	Date Received:	11/19/11
Matrix:	SO - Soil	Percent Solids:	79.0
Method:	SW846 8260B		
Project:	XOM FRU 297-17A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3V14685.D	1	11/21/11	DC	n/a	n/a	V3V848
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	76	34	ug/kg	
108-88-3	Toluene	ND	150	76	ug/kg	
100-41-4	Ethylbenzene	ND	150	38	ug/kg	
1330-20-7	Xylene (total)	189	310	150	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		61-130%
460-00-4	4-Bromofluorobenzene	112%		53-131%
17060-07-0	1,2-Dichloroethane-D4	104%		62-130%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	RESERVE PIT MIX/BLEND 11-18	Date Sampled:	11/18/11
Lab Sample ID:	D29645-1	Date Received:	11/19/11
Matrix:	SO - Soil	Percent Solids:	79.0
Method:	SW846 8015B		
Project:	XOM FRU 297-17A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB13990.D	1	11/21/11	SK	n/a	n/a	GGB794
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	23.5	15	7.6	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	95%		60-140%		

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	RESERVE PIT MIX/BLEND 11-18				Date Sampled:	11/18/11
Lab Sample ID:	D29645-1				Date Received:	11/19/11
Matrix:	SO - Soil				Percent Solids:	79.0
Method:	SW846-8015B SW846 3546					
Project:	XOM FRU 297-17A					

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD11778.D	1	11/28/11	TR	11/21/11	OP4885	GFD599
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	695	17	11	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	69%		61-142%		

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Mountain States
4036 Youngfield Street Wheat Ridge, Co 80033
TEL. 303-425-6021 877-737-4521
FAX 303-425-6021

[illegible]

D29645: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D29645

Client: KRW CONSULTING INC

Immediate Client Services Action Required: No

Date / Time Received: 11/19/2011 9:00:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project: XOM FRU 297-17A

Airbill #'s: Fedex

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			Infrared gun
3. Cooler media:			Ice (bag)

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:			Intact

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D29645
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V848-MB	3V14680.D	1	11/21/11	DC	n/a	n/a	V3V848

The QC reported here applies to the following samples:

Method: SW846 8260B

D29645-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	22	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	200	100	ug/kg	

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	105% 61-130%
460-00-4	4-Bromofluorobenzene	102% 53-131%
17060-07-0	1,2-Dichloroethane-D4	107% 62-130%

Blank Spike Summary

Page 1 of 1

Job Number: D29645

Account: KRWCCOL KRW Consulting, Inc.

Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3V848-BS	3V14681.D	1	11/21/11	DC	n/a	n/a	V3V848

The QC reported here applies to the following samples:

Method: SW846 8260B

D29645-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	58.1	116	70-130
100-41-4	Ethylbenzene	50	56.3	113	70-130
108-88-3	Toluene	50	53.7	107	70-130
1330-20-7	Xylene (total)	150	169	113	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	103%	61-130%
460-00-4	4-Bromofluorobenzene	114%	53-131%
17060-07-0	1,2-Dichloroethane-D4	110%	62-130%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D29645
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29644-1MS	3V14683.D	1	11/21/11	DC	n/a	n/a	V3V848
D29644-1MSD	3V14684.D	1	11/21/11	DC	n/a	n/a	V3V848
D29644-1	3V14682.D	1	11/21/11	DC	n/a	n/a	V3V848

The QC reported here applies to the following samples:

Method: SW846 8260B

D29645-1

CAS No.	Compound	D29644-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		3480	3810	110	3990	115	5	70-134/30
100-41-4	Ethylbenzene	ND		3480	3660	105	3900	112	6	70-137/30
108-88-3	Toluene	ND		3480	3460	99	3710	107	7	70-130/30
1330-20-7	Xylene (total)	ND		10400	11000	105	11600	111	5	61-131/30

CAS No.	Surrogate Recoveries	MS	MSD	D29644-1	Limits
2037-26-5	Toluene-D8	100%	101%	101%	61-130%
460-00-4	4-Bromofluorobenzene	113%	116%	109%	53-131%
17060-07-0	1,2-Dichloroethane-D4	108%	100%	111%	62-130%

GC/MS Volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V3112111.S\
 Data File : 3V14685.D
 Acq On : 21 Nov 2011 4:49 pm
 Operator : DONC
 Sample : D29645-1, 50x
 Misc : MS2987,V3V848,5.023,,100,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 22 08:26:54 2011
 Quant Method : C:\msdchem\1\METHODS\V3AP830TVH830.M
 Quant Title : 8260
 QLast Update : Mon Nov 07 14:42:41 2011
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.888	168	341176	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.680	114	570806	50.00	ug/l	0.00
53) Chlorobenzene-d5	15.315	117	533140	50.00	ug/l	0.00
74) 1,4-Dichlorobenzene-d4	17.314	152	295635	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	12.282	102	46685	51.80	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.60%
61) Toluene-d8	14.073	98	809460	50.90	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.80%
69) 4-Bromofluorobenzene	16.265	95	288790	55.81	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	111.62%

Target Compounds

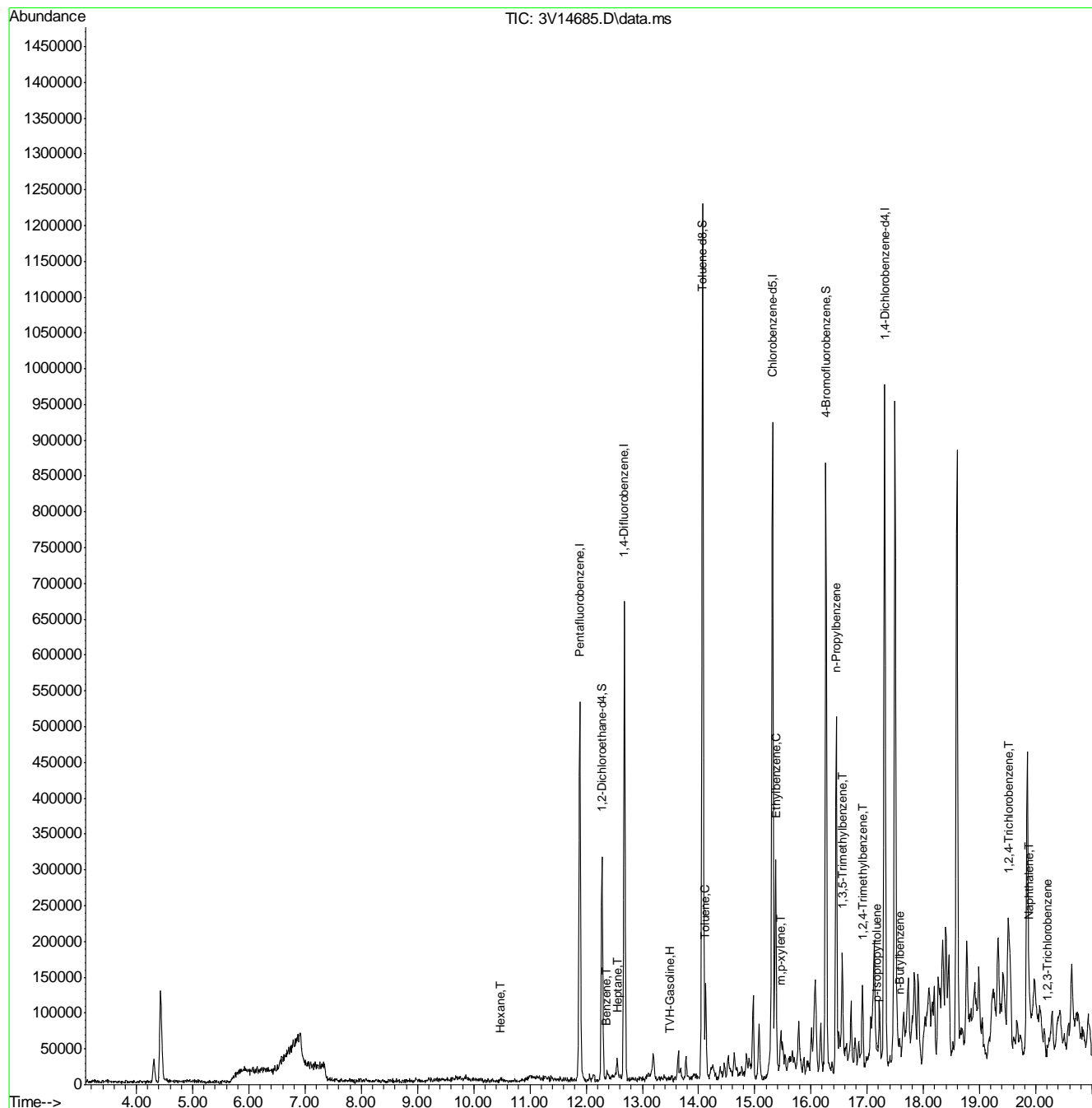
						Qvalue
1) TVH-Gasoline	13.491	TIC	4939833m	291.10	ug/l	
41) Hexane	10.489	57	1209	0.25	ug/l	100
43) Heptane	12.546	43	8089	1.49	ug/l	97
50) Benzene	12.369	78	5995	0.39	ug/l	100
62) Toluene	14.127	92	9754	0.90	ug/l	98
66) Ethylbenzene	15.382	91	5905	0.25	ug/l	78
72) m,p-xylene	15.469	106	19278	2.48	ug/l	98
77) n-Propylbenzene	16.447	91	7540	0.37	ug/l	93
80) 1,3,5-Trimethylbenzene	16.557	105	63672	4.01	ug/l	96
82) 1,2,4-Trimethylbenzene	16.919	105	58774	3.28	ug/l	87
86) p-Isopropyltoluene	17.176	119	8998m	0.45	ug/l	
88) n-Butylbenzene	17.567	91	9876	0.57	ug/l #	75
90) 1,2,4-Trichlorobenzene	19.502	180	2937	0.45	ug/l #	65
91) Naphthalene	19.884	128	79210	4.85	ug/l	100
93) 1,2,3-Trichlorobenzene	20.215	180	4453	0.73	ug/l #	87

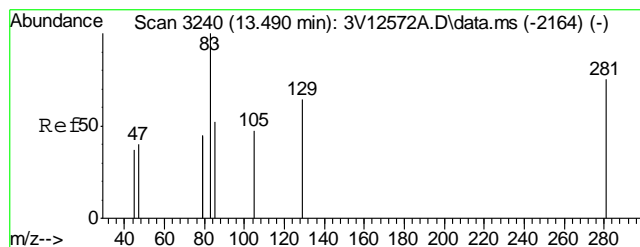
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V3112111.S\
Data File : 3V14685.D
Acq On : 21 Nov 2011 4:49 pm
Operator : DONC
Sample : D29645-1, 50x
Misc : MS2987,V3V848,5.023,,100,5,1
ALS Vial : 8 Sample Multiplier: 1

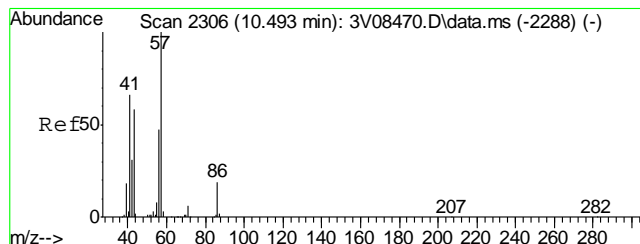
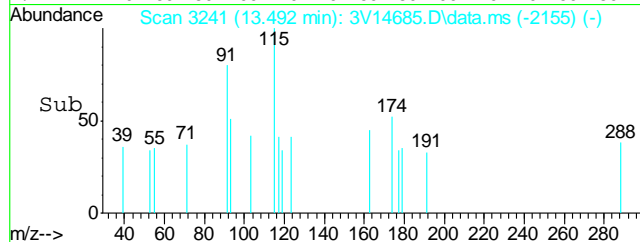
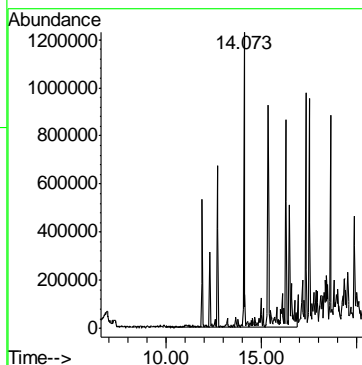
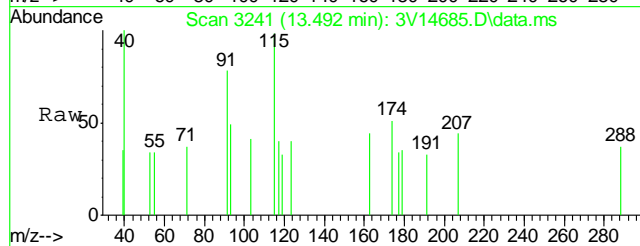
Quant Time: Nov 22 08:26:54 2011
Quant Method : C:\msdchem\1\METHODS\V3AP830TVH830.M
Quant Title : 8260
QLast Update : Mon Nov 07 14:42:41 2011
Response via : Initial Calibration





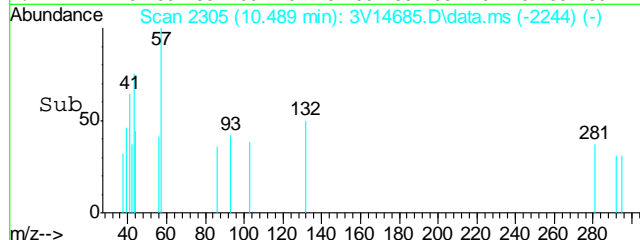
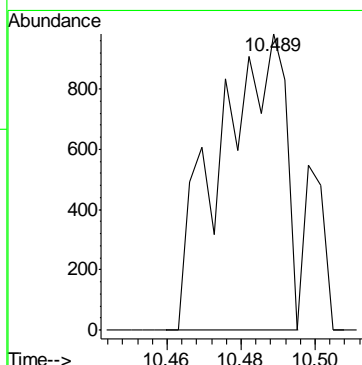
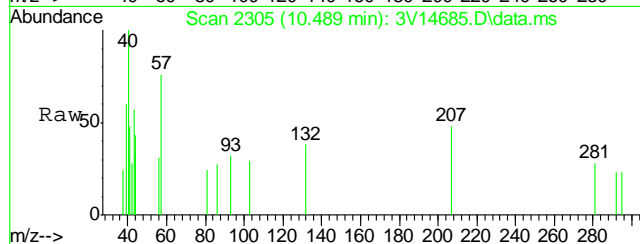
#1
TVH-Gasoline
Concen: 291.10 ug/l m
RT: 13.491 min Scan# 3241
Delta R.T. 0.000 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

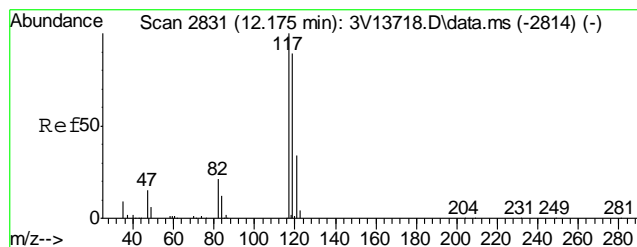
Tgt Ion:TIC Resp: 4939833



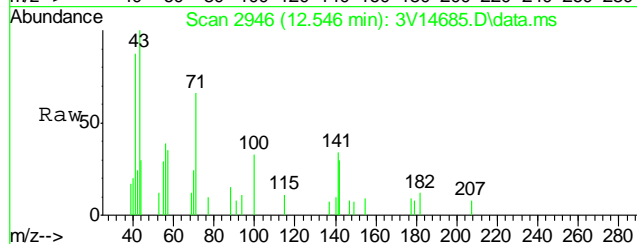
#41
Hexane
Concen: 0.25 ug/l
RT: 10.489 min Scan# 2305
Delta R.T. -0.005 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

Tgt Ion: 57 Resp: 1209

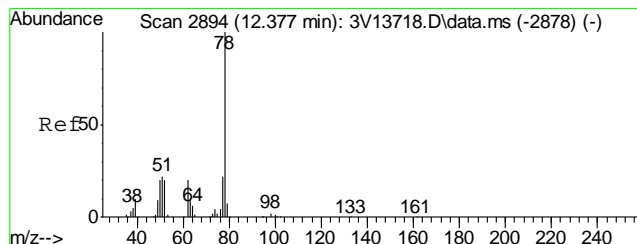
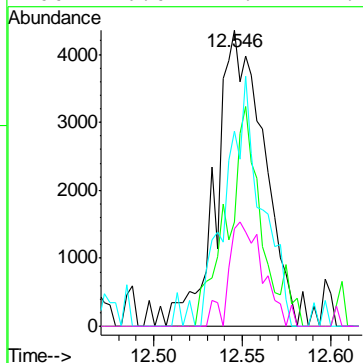
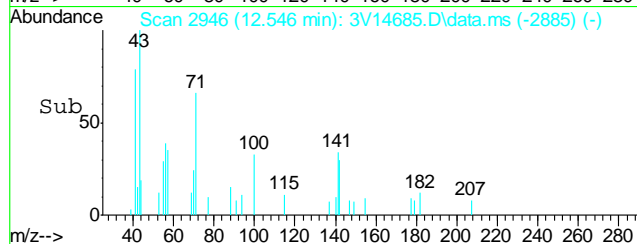




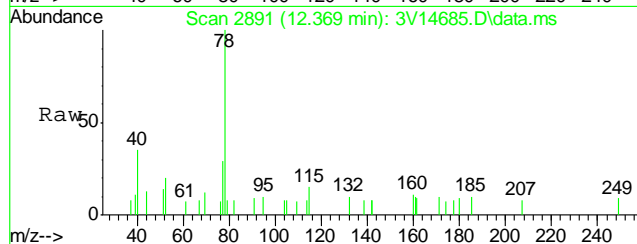
#43
Heptane
Concen: 1.49 ug/l
RT: 12.546 min Scan# 2946
Delta R.T. -0.005 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm



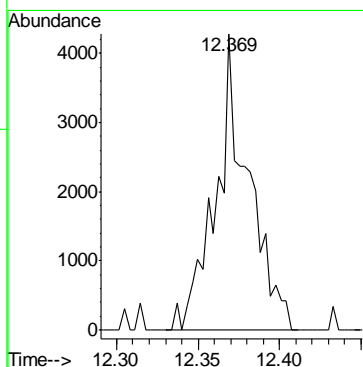
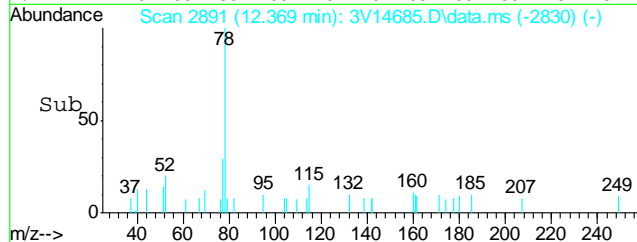
Tgt Ion	Ratio	Lower	Upper
43	100		
57	54.7	33.4	73.4
71	63.3	46.9	86.9
100	26.0	4.7	44.7

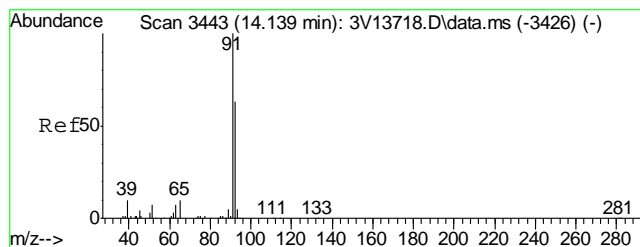


#50
Benzene
Concen: 0.39 ug/l
RT: 12.369 min Scan# 2891
Delta R.T. -0.005 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm



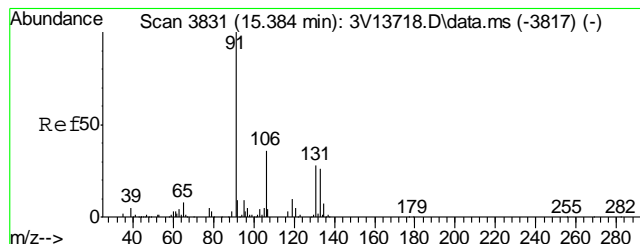
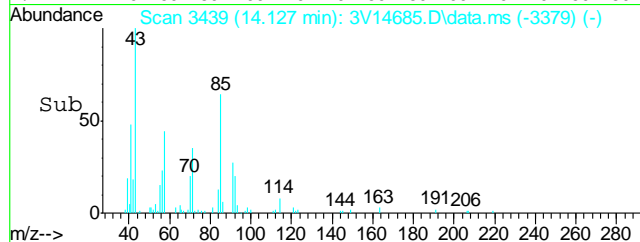
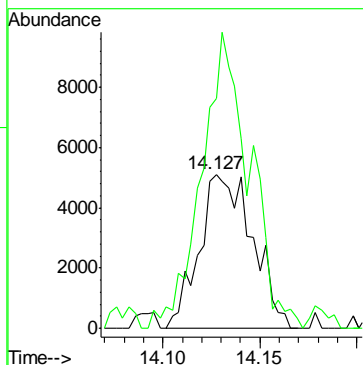
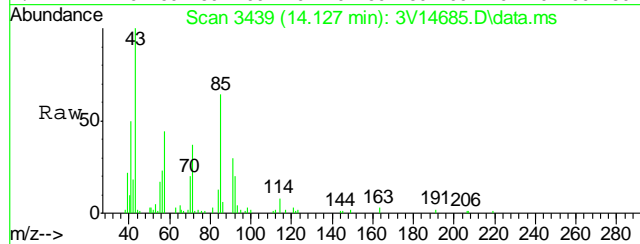
Tgt Ion: 78 Resp: 5995





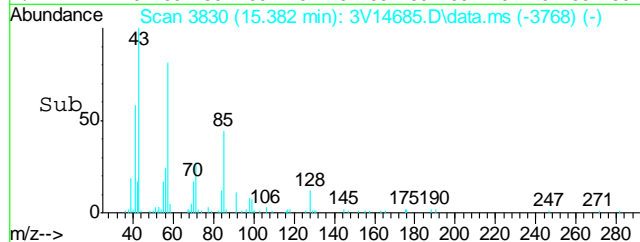
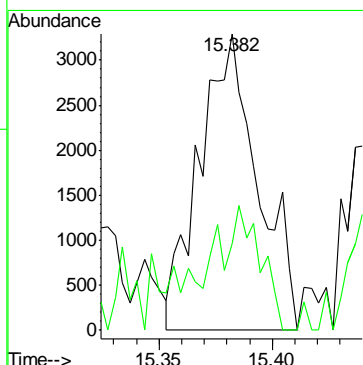
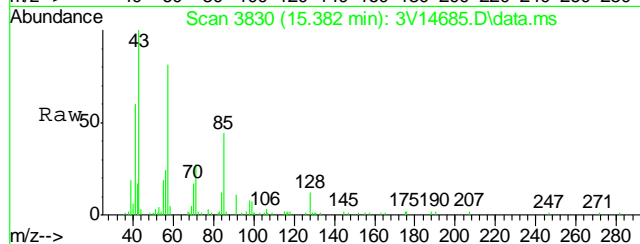
#62
Toluene
Concen: 0.90 ug/l
RT: 14.127 min Scan# 3439
Delta R.T. -0.008 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

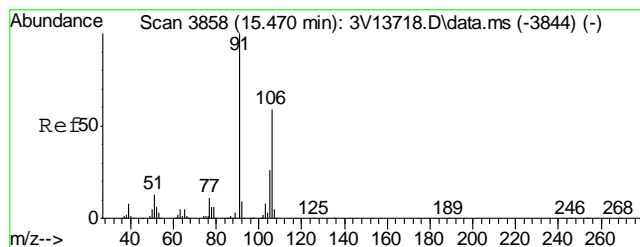
Tgt Ion: 92 Resp: 9754
Ion Ratio Lower Upper
92 100
91 173.4 156.8 196.8



#66
Ethylbenzene
Concen: 0.25 ug/l
RT: 15.382 min Scan# 3830
Delta R.T. -0.001 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

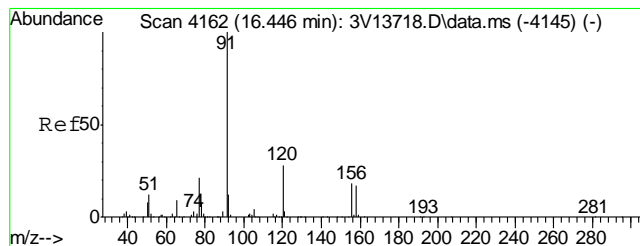
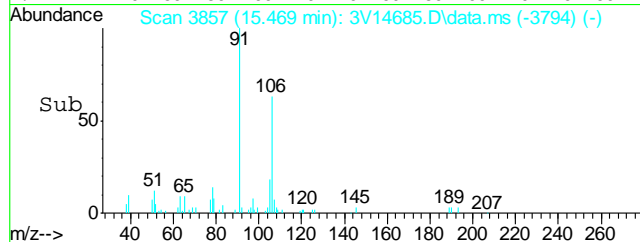
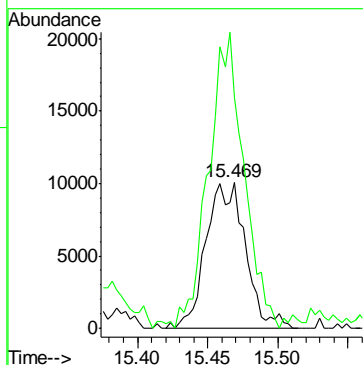
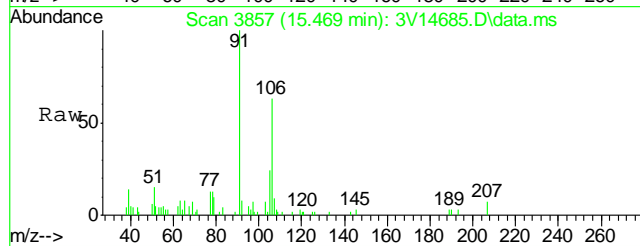
Tgt Ion: 91 Resp: 5905
Ion Ratio Lower Upper
91 100
106 21.0 13.3 53.3





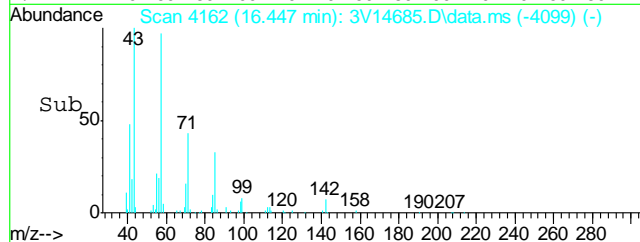
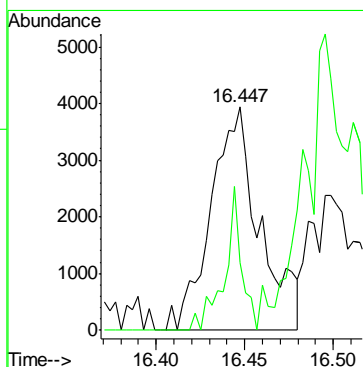
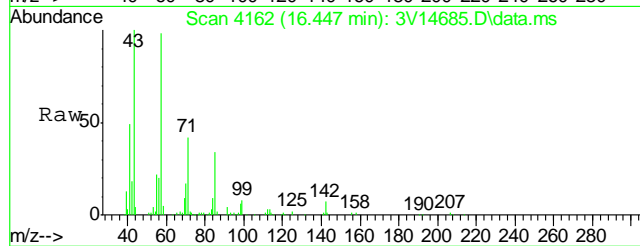
#72
m,p-xylene
Concen: 2.48 ug/l
RT: 15.469 min Scan# 3857
Delta R.T. 0.003 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

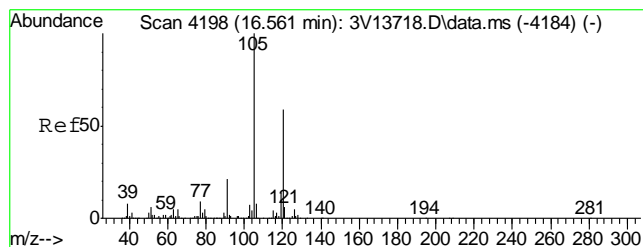
Tgt Ion: 106 Resp: 19278
Ion Ratio Lower Upper
106 100
91 182.0 164.7 204.7



#77
n-Propylbenzene
Concen: 0.37 ug/l
RT: 16.447 min Scan# 4162
Delta R.T. 0.002 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

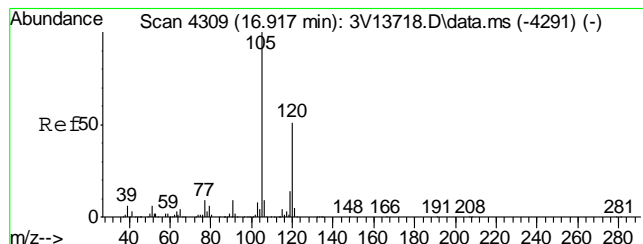
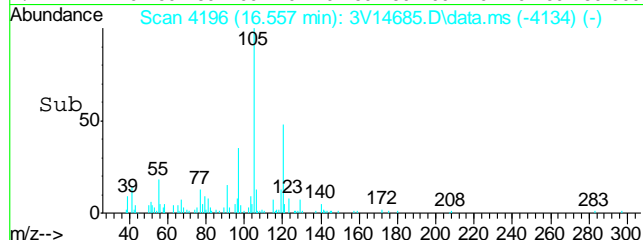
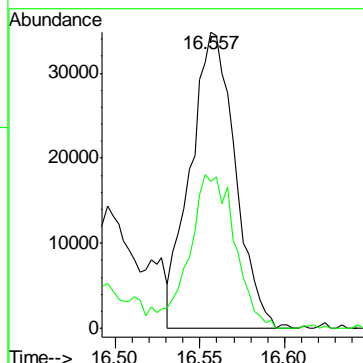
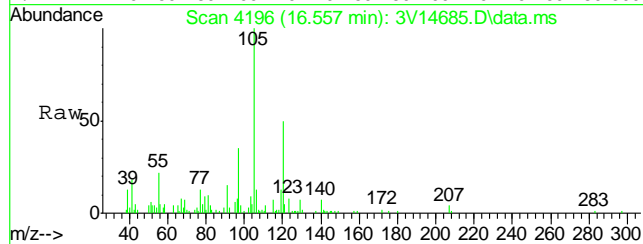
Tgt Ion: 91 Resp: 7540
Ion Ratio Lower Upper
91 100
120 22.6 20.8 31.2





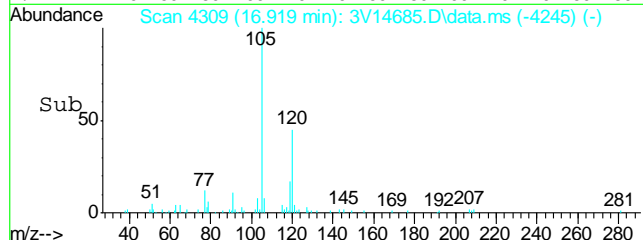
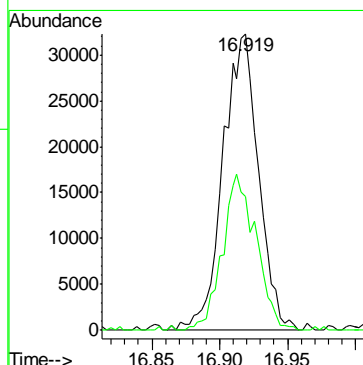
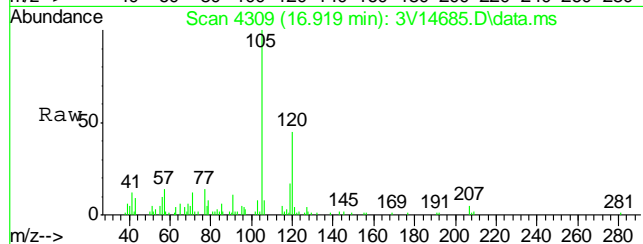
#80
1,3,5-Trimethylbenzene
Concen: 4.01 ug/l
RT: 16.557 min Scan# 4196
Delta R.T. -0.000 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

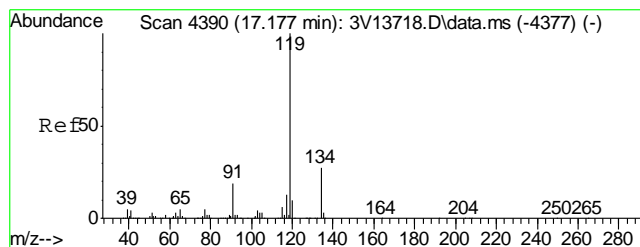
Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.0	43.8	65.8



#82
1,2,4-Trimethylbenzene
Concen: 3.28 ug/l
RT: 16.919 min Scan# 4309
Delta R.T. 0.005 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

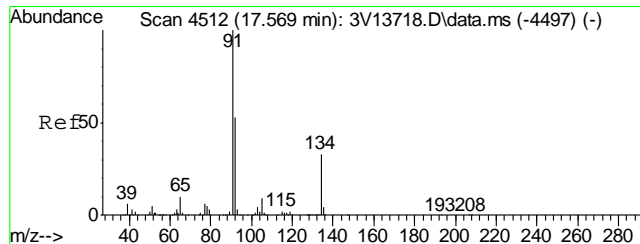
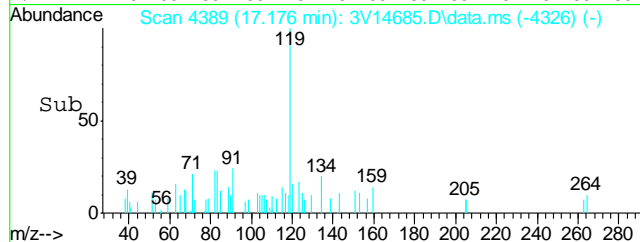
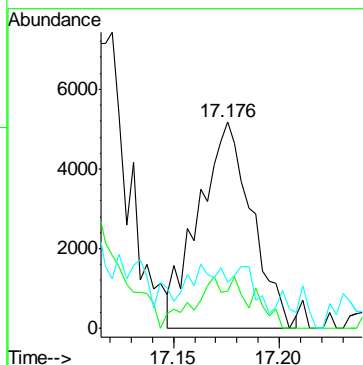
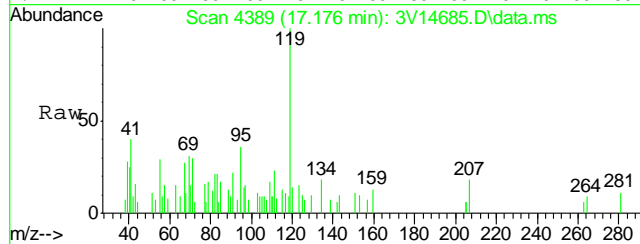
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.9	47.8	71.6





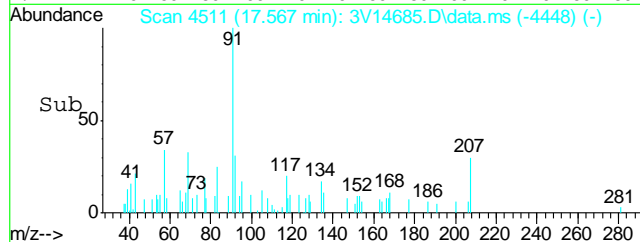
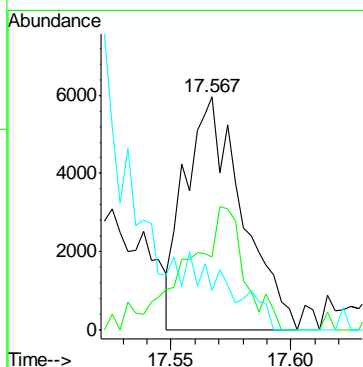
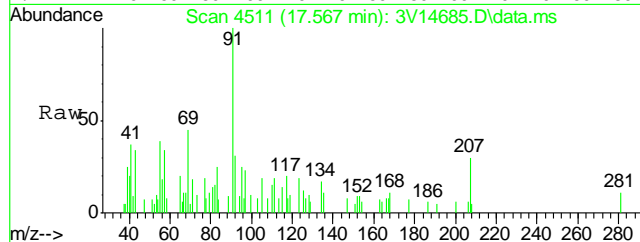
#86
p-Isopropyltoluene
Concen: 0.45 ug/l m
RT: 17.176 min Scan# 4389
Delta R.T. 0.002 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

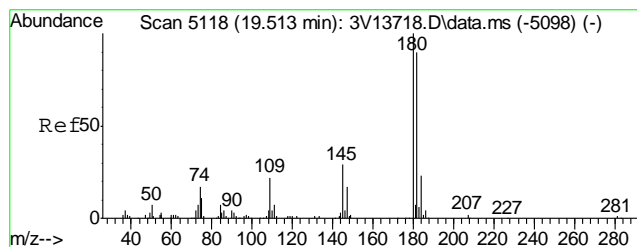
Tgt Ion:	119	Resp:	8998
Ion Ratio	Lower	Upper	
119	100		
134	42.9	23.4	35.0#
91	35.7	16.3	24.5#



#88
n-Butylbenzene
Concen: 0.57 ug/l
RT: 17.567 min Scan# 4511
Delta R.T. 0.002 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

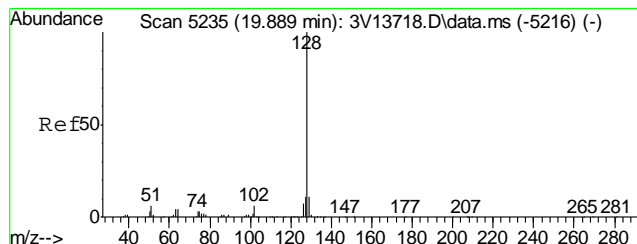
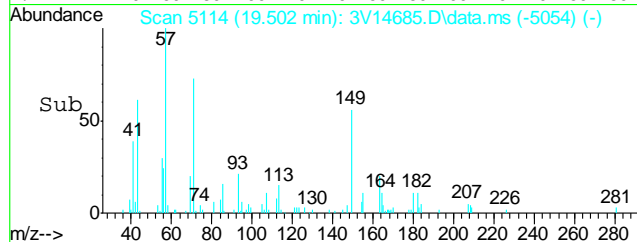
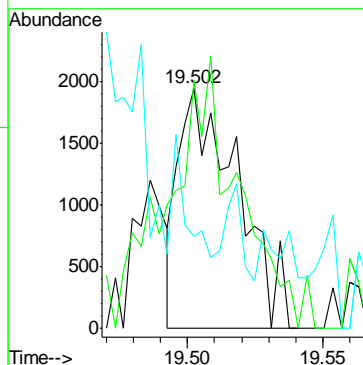
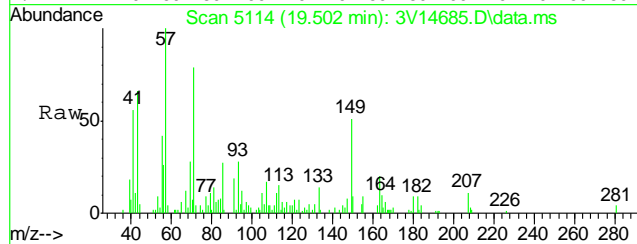
Tgt Ion:	91	Resp:	9876
Ion Ratio	Lower	Upper	
91	100		
92	55.1	41.5	62.3
134	0.0	25.4	38.0#





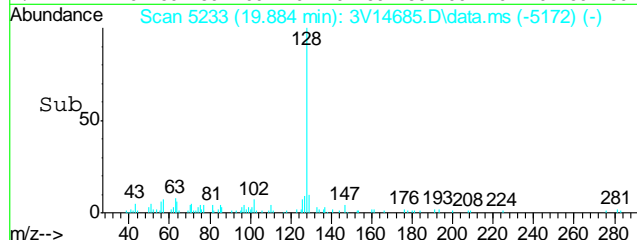
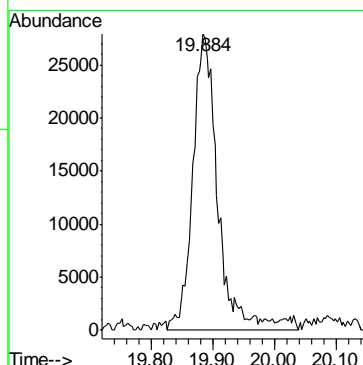
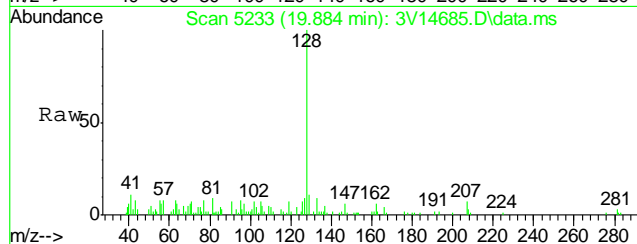
#90
1,2,4-Trichlorobenzene
Concen: 0.45 ug/l
RT: 19.502 min Scan# 5114
Delta R.T. -0.008 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

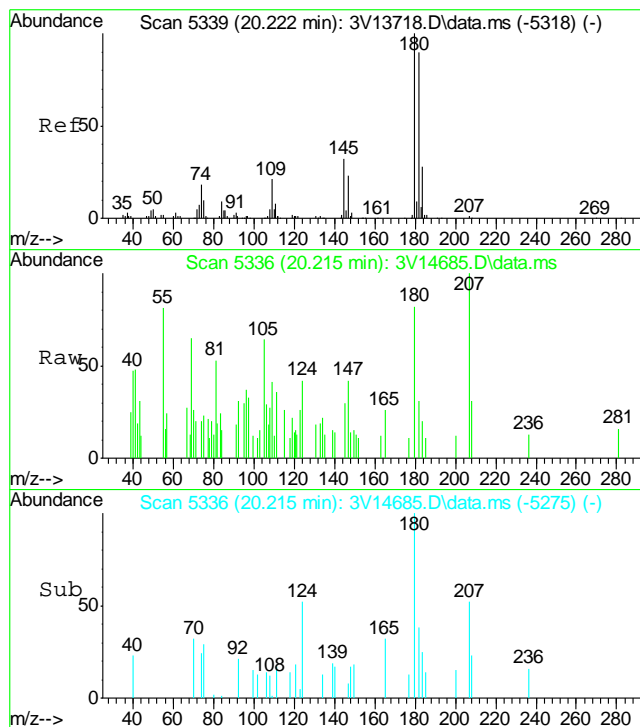
Tgt Ion	Ratio	Lower	Upper
180	100		
182	136.9	76.6	115.0#
145	24.0	25.3	37.9#



#91
Naphthalene
Concen: 4.85 ug/l
RT: 19.884 min Scan# 5233
Delta R.T. -0.005 min
Lab File: 3V14685.D
Acq: 21 Nov 2011 4:49 pm

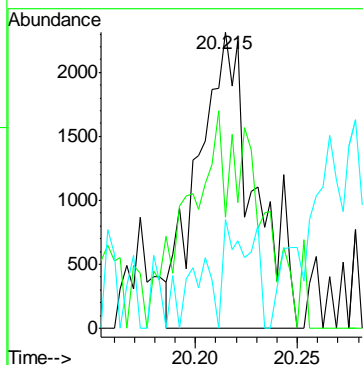
Tgt Ion	Ratio
128	79210





#93
 1,2,3-Trichlorobenzene
 Concen: 0.73 ug/l
 RT: 20.215 min Scan# 5336
 Delta R.T. -0.005 min
 Lab File: 3V14685.D
 Acq: 21 Nov 2011 4:49 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.3	76.6	115.0
145	17.8	27.1	40.7#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V3112111.S\
Data File : 3V14680.D
Acq On : 21 Nov 2011 2:11 pm
Operator : DONC
Sample : MB, MEB112111
Misc : MS2987,V3V848,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 22 08:19:59 2011
Quant Method : C:\msdchem\1\METHODS\V3AP830TVH830.M
Quant Title : 8260
QLast Update : Mon Nov 07 14:42:41 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Pentafluorobenzene	11.887	168	289638	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	12.683	114	495822	50.00	ug/l	0.00
53) Chlorobenzene-d5	15.314	117	436642	50.00	ug/l	0.00
74) 1,4-Dichlorobenzene-d4	17.307	152	228943	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	12.282	102	41028	53.62	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.24%
61) Toluene-d8	14.072	98	686411	52.70	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	105.40%
69) 4-Bromofluorobenzene	16.264	95	216209	51.01	ug/l	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.02%

Target Compounds

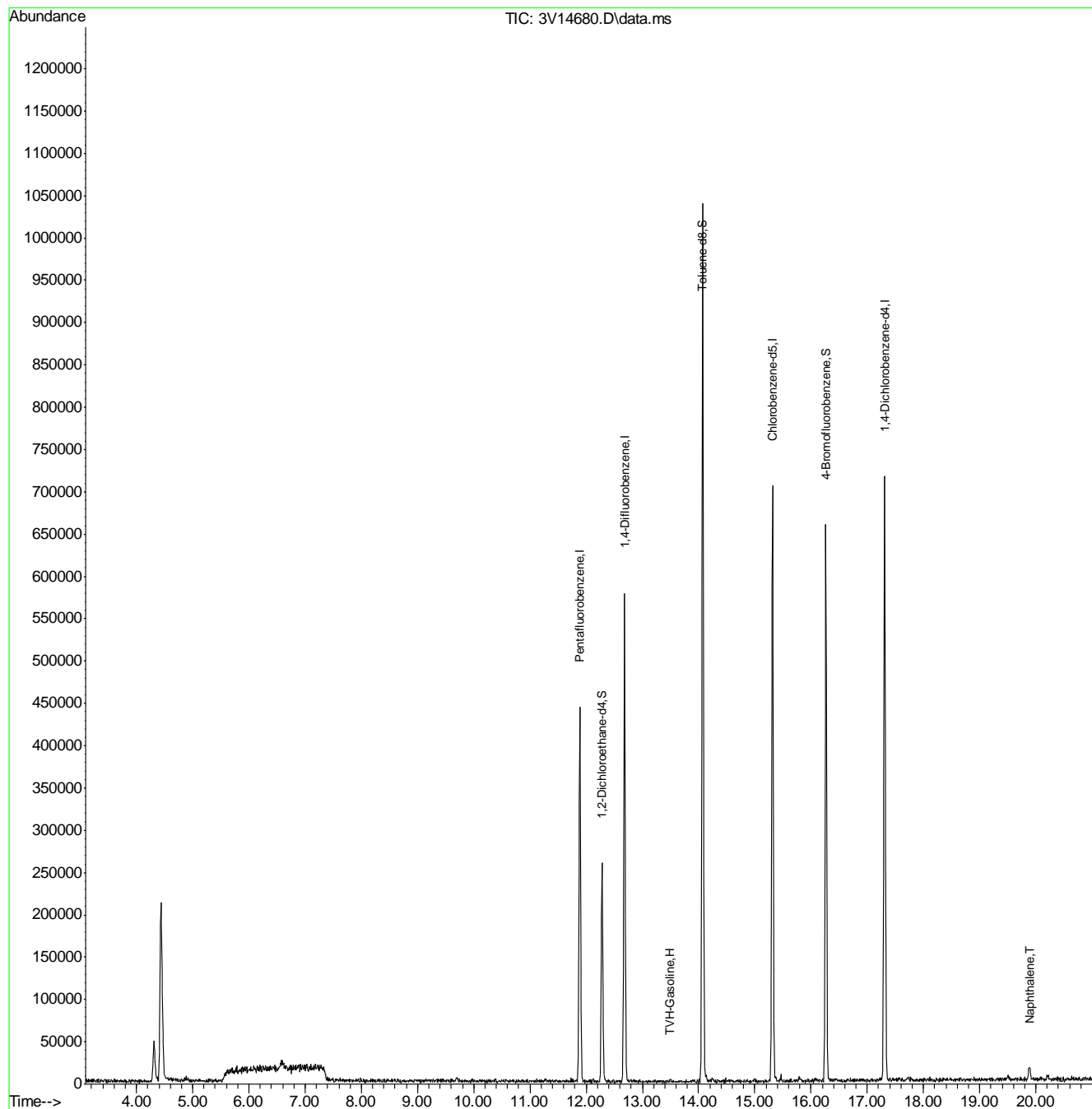
					Qvalue
1) TVH-Gasoline	13.491	TIC	174727m	22.29	ug/l
91) Naphthalene	19.893	128	18848	1.49	ug/l

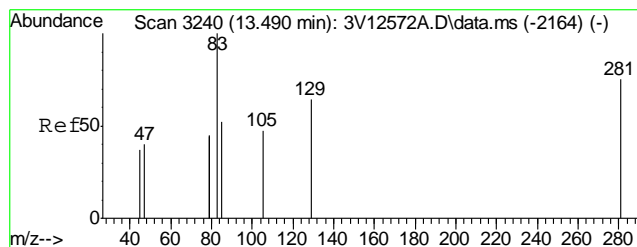
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V3112111.S\
Data File : 3V14680.D
Acq On : 21 Nov 2011 2:11 pm
Operator : DONC
Sample : MB, MEB112111
Misc : MS2987,V3V848,5,,100,5,1
ALS Vial : 3 Sample Multiplier: 1

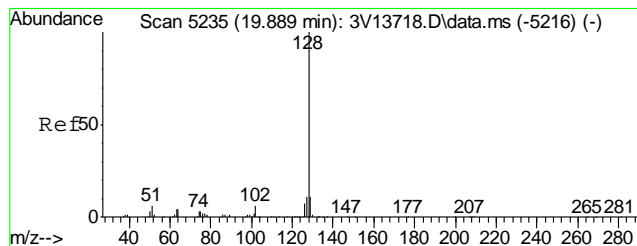
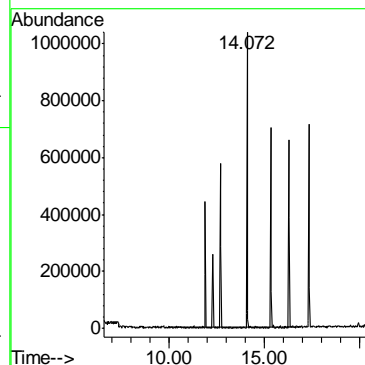
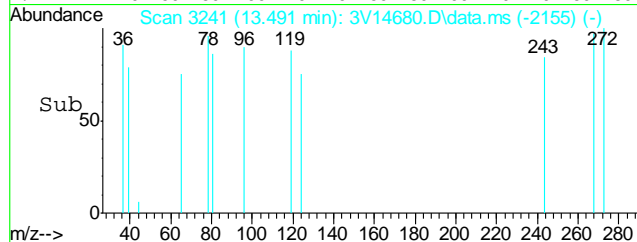
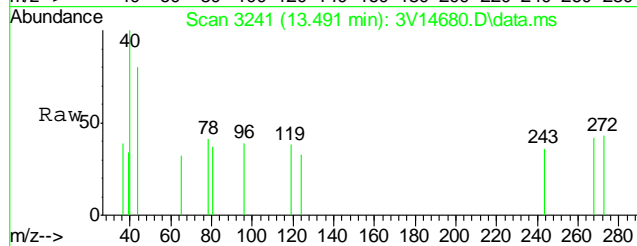
Quant Time: Nov 22 08:19:59 2011
Quant Method : C:\msdchem\1\METHODS\V3AP830TVH830.M
Quant Title : 8260
QLast Update : Mon Nov 07 14:42:41 2011
Response via : Initial Calibration





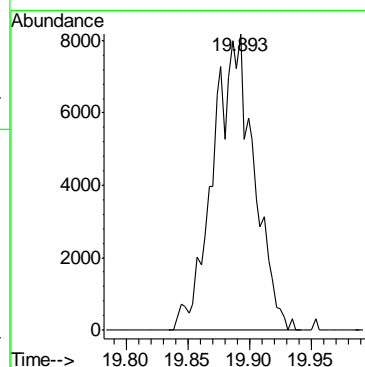
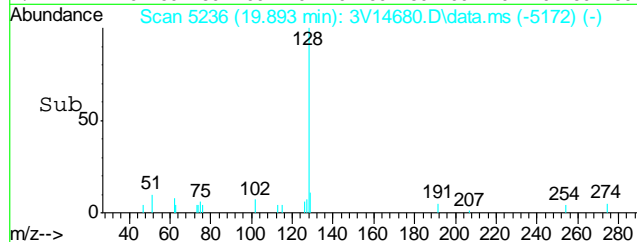
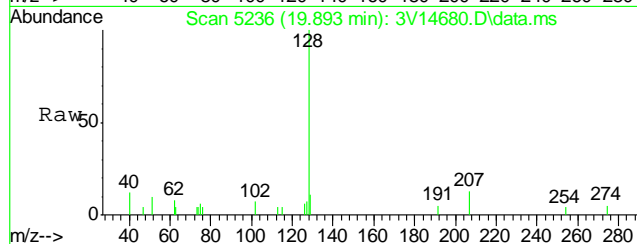
#1
TVH-Gasoline
Concen: 22.29 ug/l m
RT: 13.491 min Scan# 3241
Delta R.T. 0.000 min
Lab File: 3V14680.D
Acq: 21 Nov 2011 2:11 pm

Tgt Ion:TIC Resp: 174727



#91
Naphthalene
Concen: 1.49 ug/l
RT: 19.893 min Scan# 5236
Delta R.T. 0.004 min
Lab File: 3V14680.D
Acq: 21 Nov 2011 2:11 pm

Tgt Ion:128 Resp: 18848



GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D29645**Account:** KRWCCOL KRW Consulting, Inc.**Project:** XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB794-MB	GB13979.D	1	11/21/11	SK	n/a	n/a	GGB794

The QC reported here applies to the following samples:**Method:** SW846 8015B

D29645-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	97% 60-140%

Blank Spike Summary

Job Number: D29645
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB794-BS	GB13980.D	1	11/21/11	SK	n/a	n/a	GGB794

The QC reported here applies to the following samples: Method: SW846 8015B

D29645-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	110	100	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29645
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D29577-1MS	GB13982.D	1	11/21/11	SK	n/a	n/a	GGB794
D29577-1MSD	GB13983.D	1	11/21/11	SK	n/a	n/a	GGB794
D29577-1	GB13981.D	1	11/21/11	SK	n/a	n/a	GGB794

The QC reported here applies to the following samples: Method: SW846 8015B

D29645-1

CAS No.	Compound	D29577-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	12.2	J	154	162	97	159	95	2	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D29577-1	Limits
120-82-1	1,2,4-Trichlorobenzene	109%	107%	87%	60-140%

7.3.1
7

GC Volatiles

Raw Data

∞

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112111\GB13990.D\FID1A.CH Vial: 14
Signal #2 : Y:\1\DATA\112111\GB13990.D\FID2B.CH
Acq On : 21 Nov 2011 11:19 pm Operator: StephK
Sample : D29645-1, 50X Inst : GC/MS Ins
Misc : GC2426,GGB794,5.023,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 22 08:15:00 2011 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Tue Nov 22 08:14:15 2011
Response via : Initial Calibration
DataAcq Meth : TVB4.M

Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm

Compound	R.T.	Response	Conc	Units

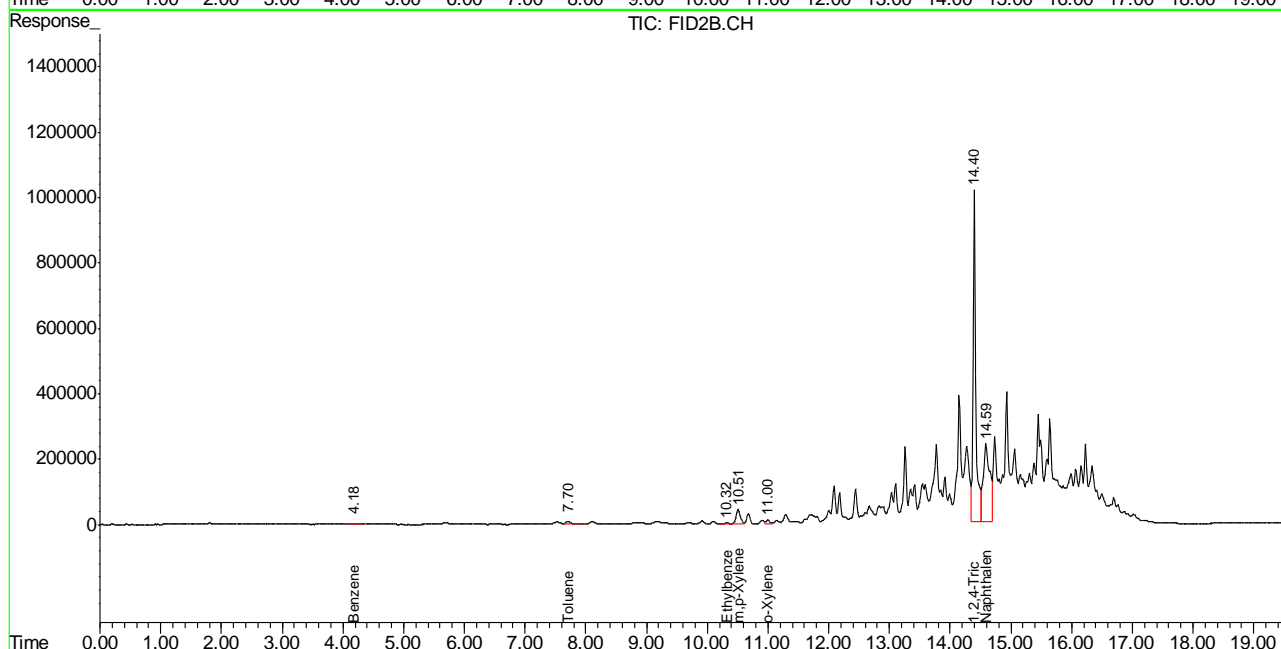
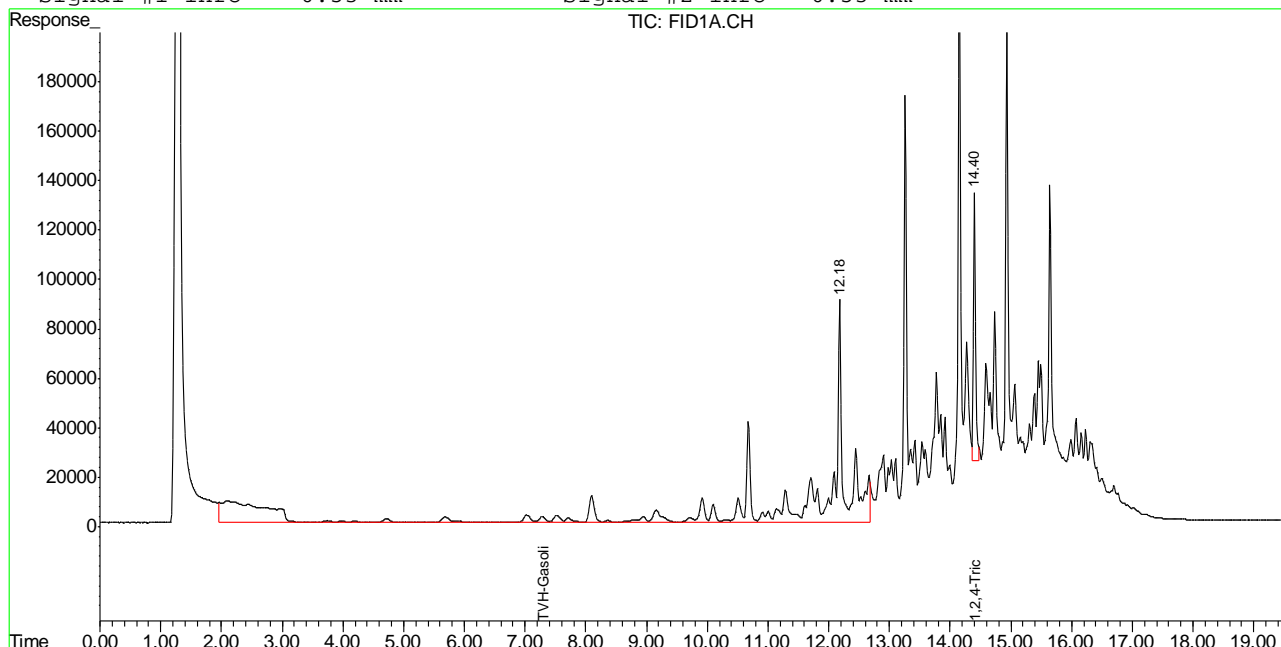
System Monitoring Compounds				
2) S 1,2,4-Trichlorobenzene	14.40	2775289	94.865 %	m
10) S 1,2,4-Trichlorobenzene (P)	14.40	31198605	135.741 %	
Target Compounds				
1) H TVH-Gasoline	7.32	21948776	0.308 mg/L	
4) T Methyl-t-butyl-ether	0.00	0	N.D. ug/L	d
5) T Benzene	4.18	185318	0.324 ug/L	
6) T Toluene	7.70	655019	1.156 ug/L	
7) T Ethylbenzene	10.32	202370	0.415 ug/L	
8) T m,p-Xylene	10.51	2251436	3.606 ug/L	
9) T o-Xylene	11.00	513492	0.814 ug/L	
11) T Naphthalene	14.59	18076321	70.228 ug/L	

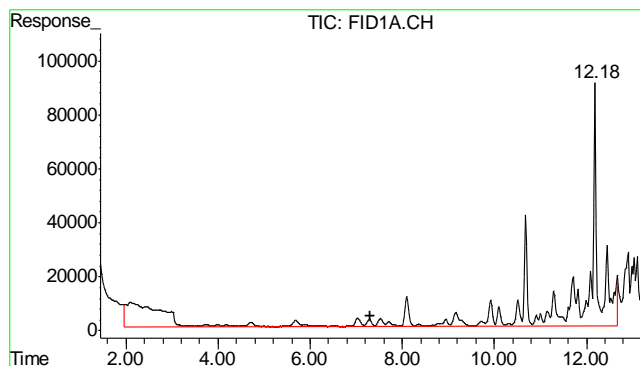
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112111\GB13990.D\FID1A.CH Vial: 14
 Signal #2 : Y:\1\DATA\112111\GB13990.D\FID2B.CH
 Acq On : 21 Nov 2011 11:19 pm Operator: StephK
 Sample : D29645-1, 50X Inst : GC/MS Ins
 Misc : GC2426,GGB794,5.023,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Nov 22 8:18 2011 Quant Results File: TB791GB791SOIL.RES

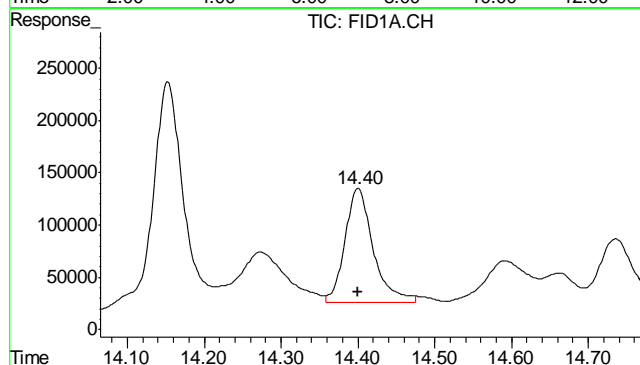
Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Tue Nov 22 08:14:15 2011
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm

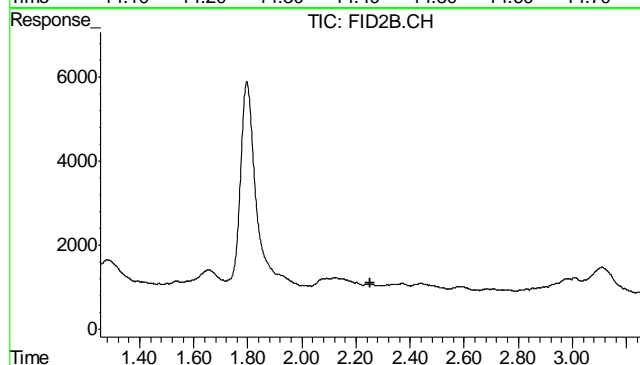




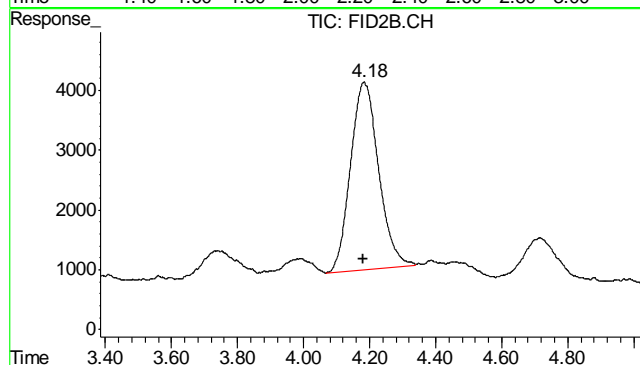
#1 TVH-Gasoline
 R.T.: 7.315 min
 Delta R.T.: 0.000 min
 Response: 21948776
 Conc: 0.31 mg/L m



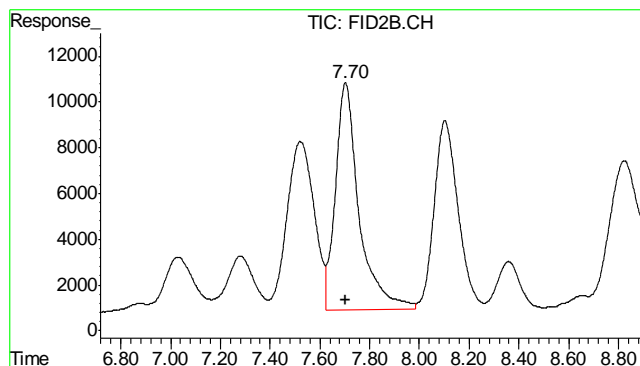
#2 1,2,4-Trichlorobenzene
 R.T.: 14.400 min
 Delta R.T.: 0.000 min
 Response: 2775289
 Conc: 94.86 % m



#4 Methyl-t-butyl-ether
 R.T.: 0.000 min
 Exp R.T.: 2.254 min
 Response: 0
 Conc: N.D.



#5 Benzene
 R.T.: 4.183 min
 Delta R.T.: 0.003 min
 Response: 185318
 Conc: 0.32 ug/L



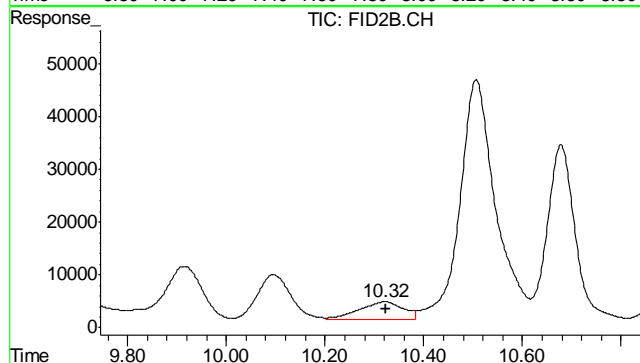
#6 Toluene

R.T.: 7.702 min

Delta R.T.: 0.002 min

Response: 655019

Conc: 1.16 ug/L



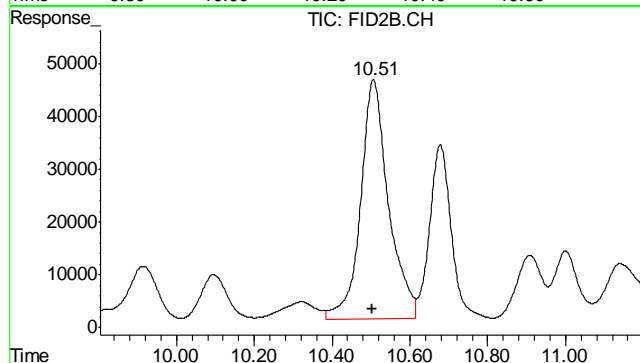
#7 Ethylbenzene

R.T.: 10.321 min

Delta R.T.: -0.002 min

Response: 202370

Conc: 0.42 ug/L



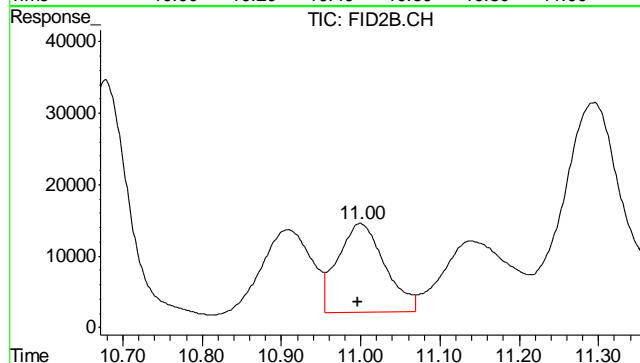
#8 m,p-Xylene

R.T.: 10.506 min

Delta R.T.: 0.004 min

Response: 2251436

Conc: 3.61 ug/L



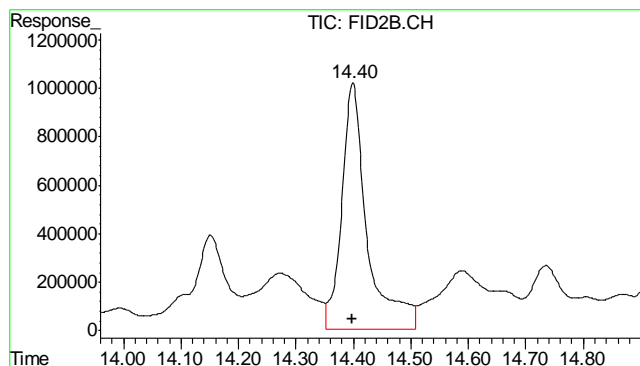
#9 o-Xylene

R.T.: 11.000 min

Delta R.T.: 0.004 min

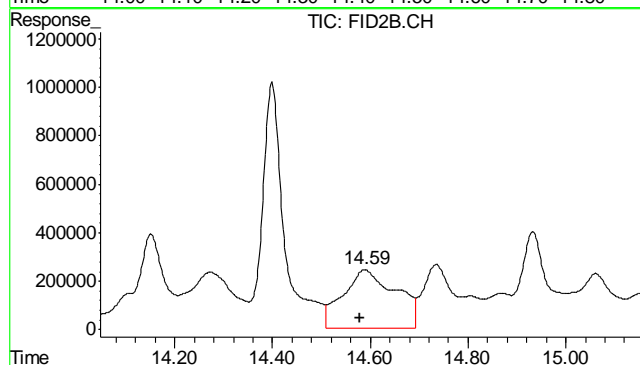
Response: 513492

Conc: 0.81 ug/L



#10 1,2,4-Trichlorobenzene (P)

R.T.: 14.399 min
Delta R.T.: 0.002 min
Response: 31198605
Conc: 135.74 %



#11 Naphthalene

R.T.: 14.589 min
Delta R.T.: 0.009 min
Response: 18076321
Conc: 70.23 ug/L

8.1.1

8

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112111\GB13979.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\112111\GB13979.D\FID2B.CH
Acq On : 21 Nov 2011 4:46 pm Operator: StephK
Sample : MB, S Inst : GC/MS Ins
Misc : GC2426,GGB794,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 21 16:55:18 2011 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Mon Nov 21 16:54:59 2011
Response via : Initial Calibration
DataAcq Meth : TVB4.M

Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm

Compound		R.T.	Response	Conc	Units

System Monitoring Compounds					
2) S	1,2,4-Trichlorobenzene	14.40	2831394	96.783	%
10) S	1,2,4-Trichlorobenzene (P)	14.40	23494418	102.221	%
Target Compounds					
1) H	TVH-Gasoline	7.32	5609938	<MDL	mg/L
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T	Benzene	0.00	0	N.D.	ug/L d
6) T	Toluene	7.70	197556	0.349	ug/L
7) T	Ethylbenzene	0.00	0	N.D.	ug/L d
8) T	m,p-Xylene	0.00	0	N.D.	ug/L d
9) T	o-Xylene	0.00	0	N.D.	ug/L d
11) T	Naphthalene	14.58	441310	1.715	ug/L

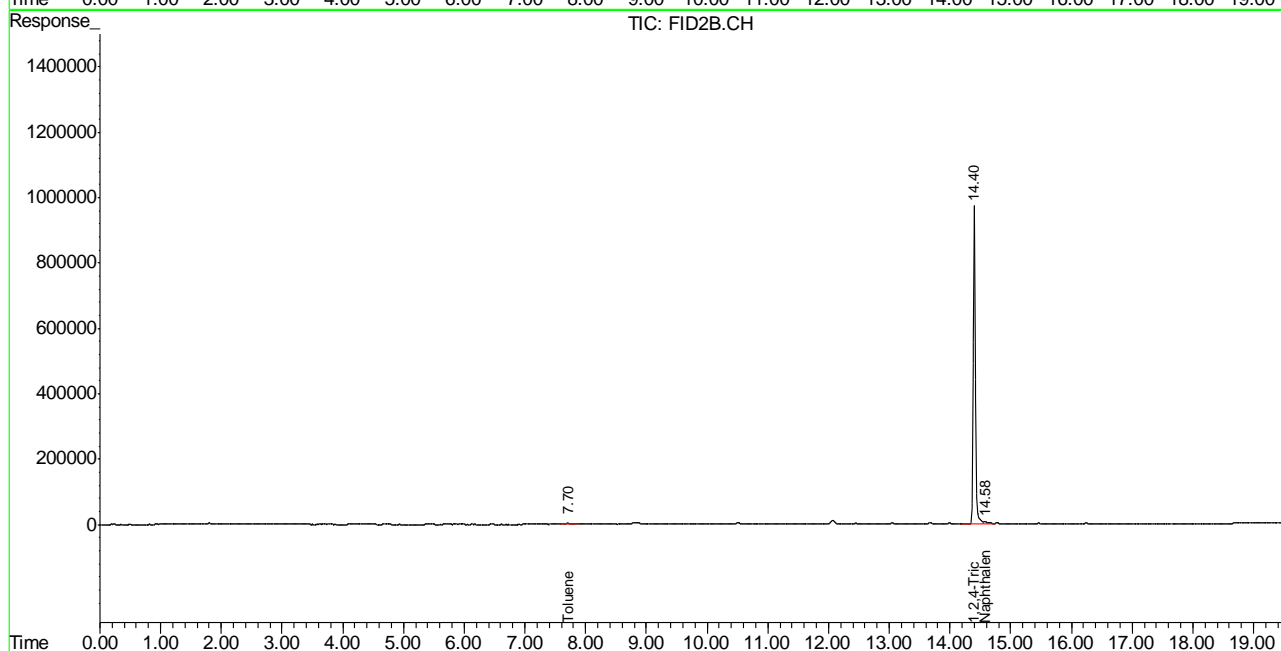
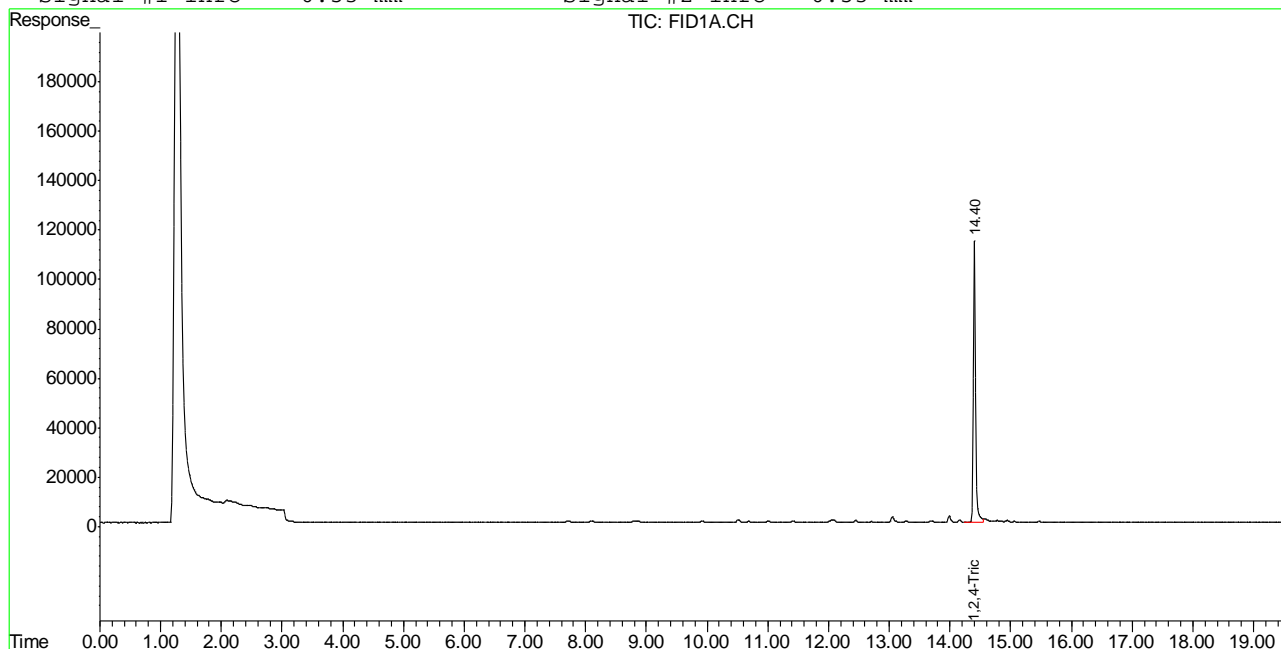
(f)=RT Delta > 1/2 Window (m)=manual int.
GB13979.D TB791GB791SOIL.M Tue Nov 22 08:23:29 2011 GC

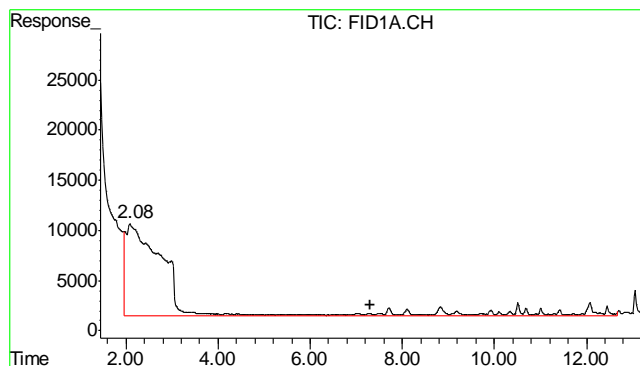
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\112111\GB13979.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\112111\GB13979.D\FID2B.CH
Acq On : 21 Nov 2011 4:46 pm Operator: StephK
Sample : MB, S Inst : GC/MS Ins
Misc : GC2426,GGB794,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Nov 21 16:55 2011 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Mon Nov 21 16:54:59 2011
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

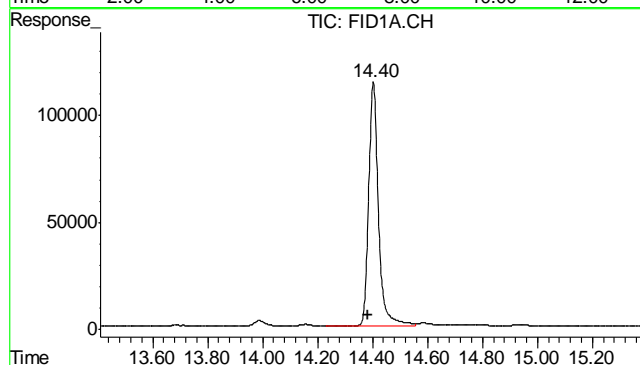
Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





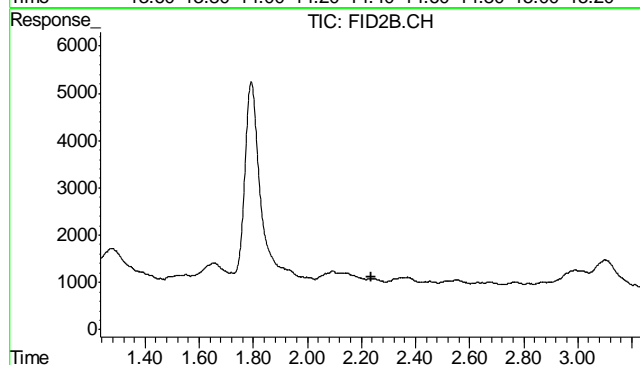
#1 TVH-Gasoline

R.T.: 7.315 min
Delta R.T.: 0.000 min
Response: 5609938
Conc: N.D.



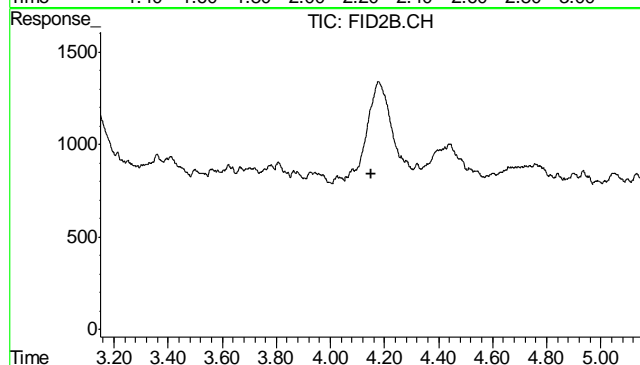
#2 1,2,4-Trichlorobenzene

R.T.: 14.403 min
Delta R.T.: 0.021 min
Response: 2831394
Conc: 96.78 %



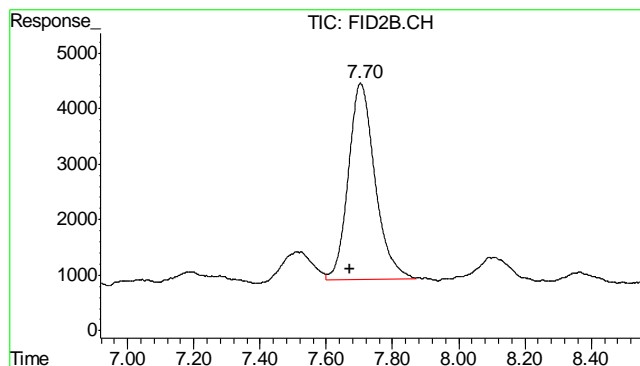
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.235 min
Response: 0
Conc: N.D.



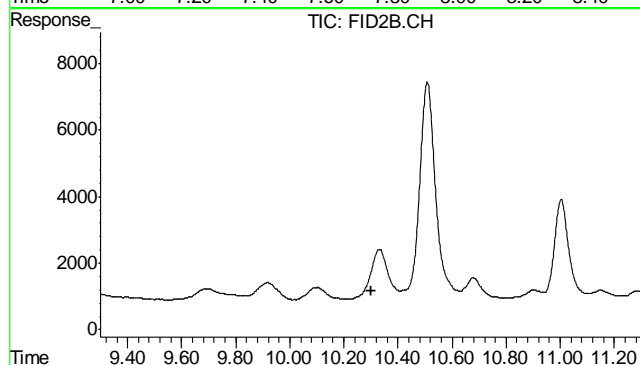
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.149 min
Response: 0
Conc: N.D.



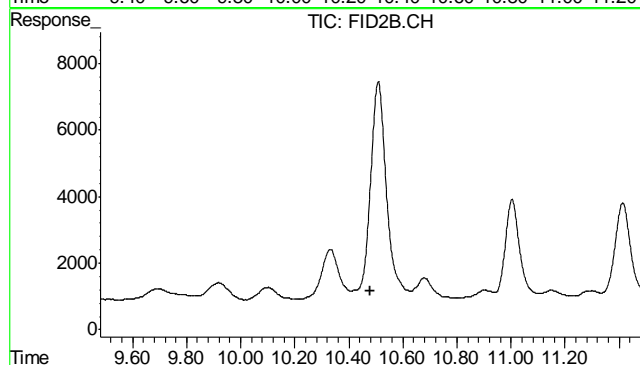
#6 Toluene

R.T.: 7.704 min
Delta R.T.: 0.033 min
Response: 197556
Conc: 0.35 ug/L



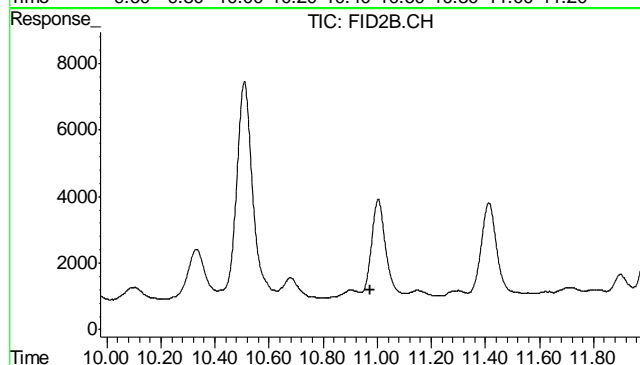
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T.: 10.300 min
Response: 0
Conc: N.D.



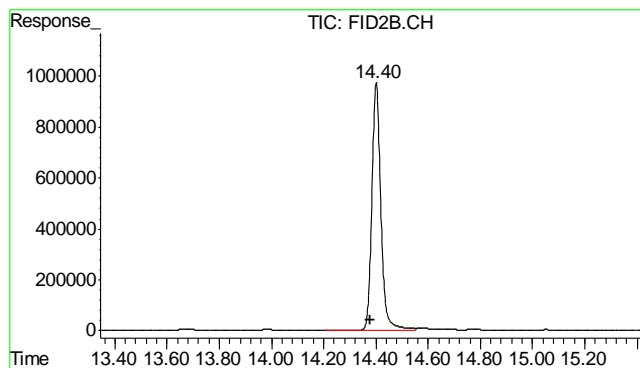
#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T.: 10.480 min
Response: 0
Conc: N.D.



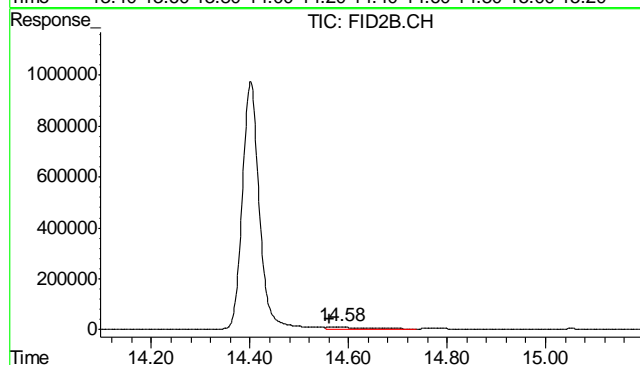
#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.976 min
Response: 0
Conc: N.D.



#10 1,2,4-Trichlorobenzene (P)

R.T.: 14.402 min
Delta R.T.: 0.022 min
Response: 23494418
Conc: 102.22 %



#11 Naphthalene

R.T.: 14.582 min
Delta R.T.: 0.020 min
Response: 441310
Conc: 1.71 ug/L

8.2.1

8

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D29645
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4885-MB	FD11773.D	1	11/28/11	TR	11/21/11	OP4885	GFD599

The QC reported here applies to the following samples:

Method: SW846-8015B

D29645-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	94% 61-142%

9.1.1

9

Blank Spike Summary

Job Number: D29645
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4885-BS	FD11774.D	1	11/28/11	TR	11/21/11	OP4885	GFD599

The QC reported here applies to the following samples: Method: SW846-8015B

D29645-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	554	83	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	83%	61-142%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D29645
Account: KRWCCOL KRW Consulting, Inc.
Project: XOM FRU 297-17A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4885-MS	FD11775.D	1	11/28/11	TR	11/21/11	OP4885	GFD599
OP4885-MSD	FD11776.D	1	11/28/11	TR	11/21/11	OP4885	GFD599
D29644-1	FD11777.D	1	11/28/11	TR	11/21/11	OP4885	GFD599

The QC reported here applies to the following samples: Method: SW846-8015B

D29645-1

CAS No.	Compound	D29644-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	390		804	793	50	1090	87	31	24-157/35

CAS No.	Surrogate Recoveries	MS	MSD	D29644-1	Limits
84-15-1	o-Terphenyl	61%	77%	61%	61-142%

GC Semi-volatiles

Raw Data

Judy Melson
11/29/11 12:07

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2011\NOV\FD112811\FD11778.D Vial: 17
Acq On : 28 Nov 2011 11:33 pm Operator: TEDR
Sample : D29645-1 Inst : FID5
Misc : OP4885,GFD599,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 10:08:36 2011 Quant Results File: GFD599.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD599.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Tue Nov 29 09:00:39 2011
Response via : Initial Calibration
DataAcq Meth : JH080911.M

Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	9.67	36711836	690.225 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	7.46	416194407	8229.842 mg/L

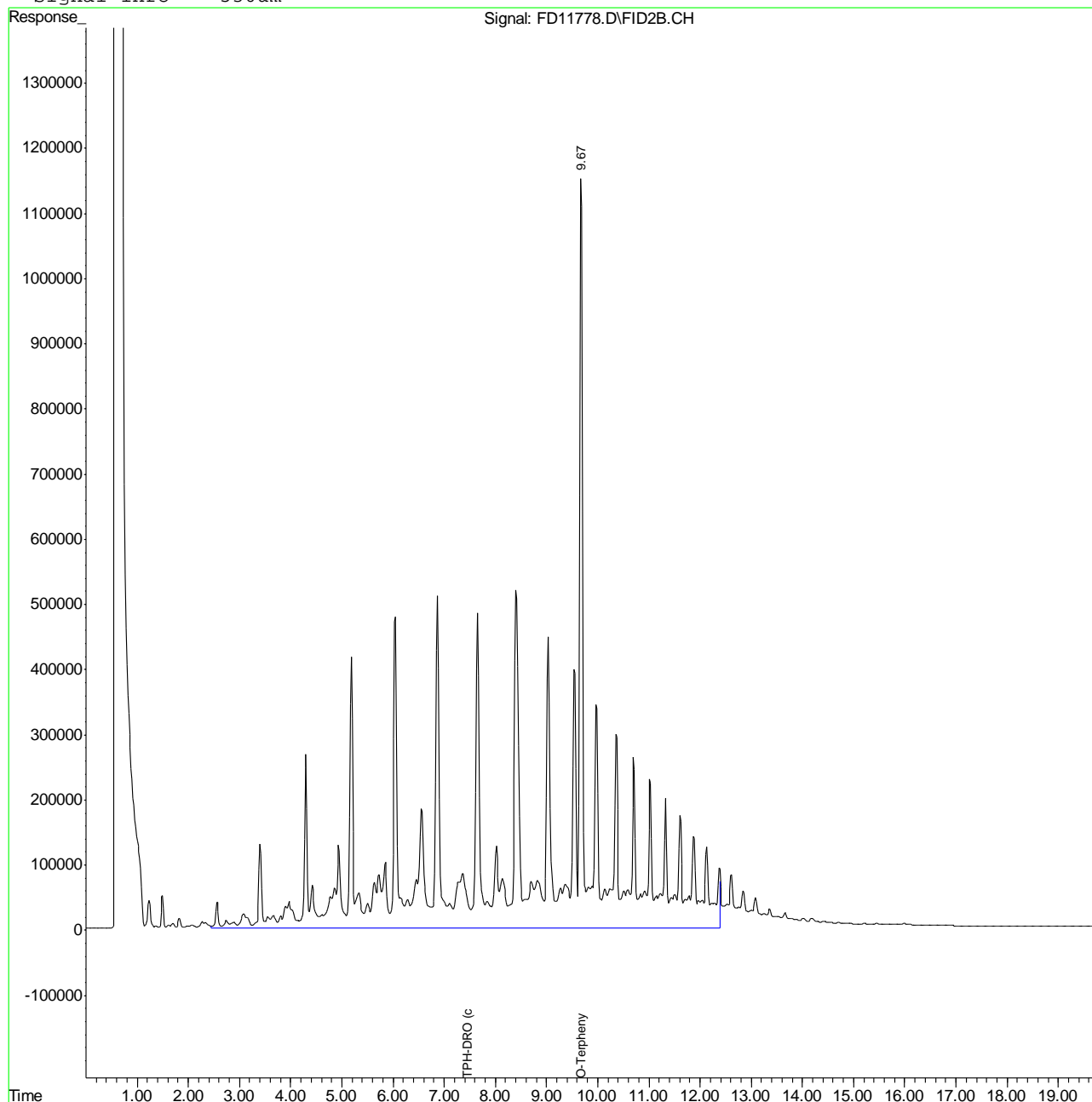
10.1.1
10

Quantitation Report (QT Reviewed)

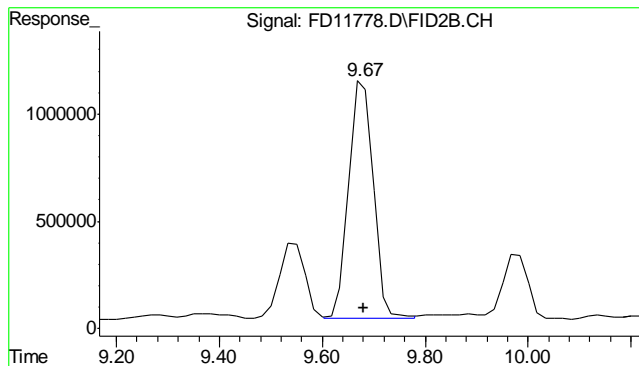
Data File : C:\MSDCHEM\2\DATA\2011\NOV\FD112811\FD11778.D Vial: 17
 Acq On : 28 Nov 2011 11:33 pm Operator: TEDR
 Sample : D29645-1 Inst : FID5
 Misc : OP4885,GFD599,30.00,,,2,1 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Nov 29 10:09 2011 Quant Results File: GFD599.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD599.M (Chemstation Integrator)
 Title : 8015B TEH
 Last Update : Tue Nov 29 09:00:39 2011
 Response via : Multiple Level Calibration
 DataAcq Meth : JH080911.M

Volume Inj. : 1ul
 Signal Phase : RTX-5
 Signal Info : 530um

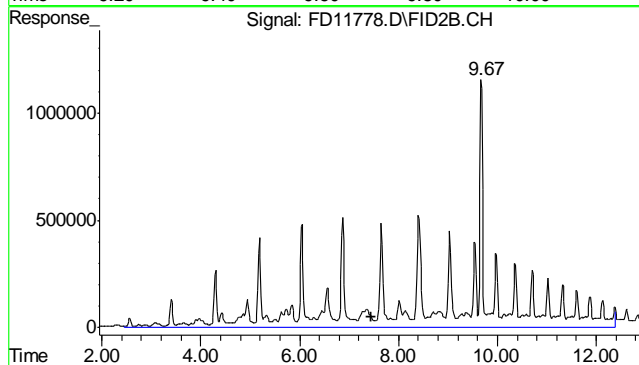


10.1.1
10



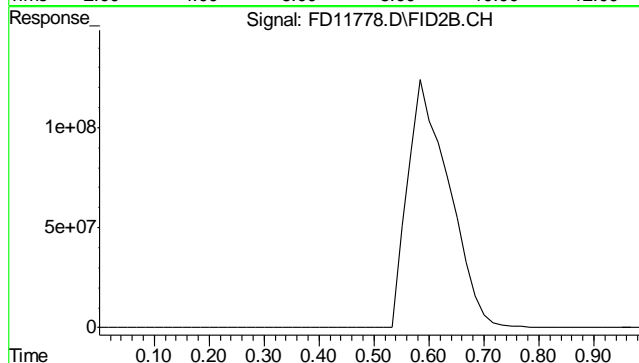
#1 O-Terphenyl

R.T.: 9.674 min
 Delta R.T.: -0.006 min
 Response: 36711836
 Conc: 690.23 mg/L m



#2 TPH-DRO (c10-c28)

R.T.: 7.455 min
 Delta R.T.: 0.000 min
 Response: 416194407
 Conc: 8229.84 mg/L m



#9 5a-Androstane

R.T.: 0.000 min
 Exp R.T.: 0.000 min
 Response: 0
 Conc: N.D.

10.1.1
10

Judy Melson
11/29/11 12:07

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2011\NOV\FD112811\FD11773.D Vial: 12
Acq On : 11-28-2011 09:25:46 PM Operator: TEDR
Sample : OP4885-MB Inst : FID5
Misc : OP4885,GFD599,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 10:04:27 2011 Quant Results File: GFD599.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD599.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Tue Nov 29 09:00:39 2011
Response via : Initial Calibration
DataAcq Meth : JH080911.M

Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	9.68	49721277	942.239 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	7.46	2428144	46.985 mg/L

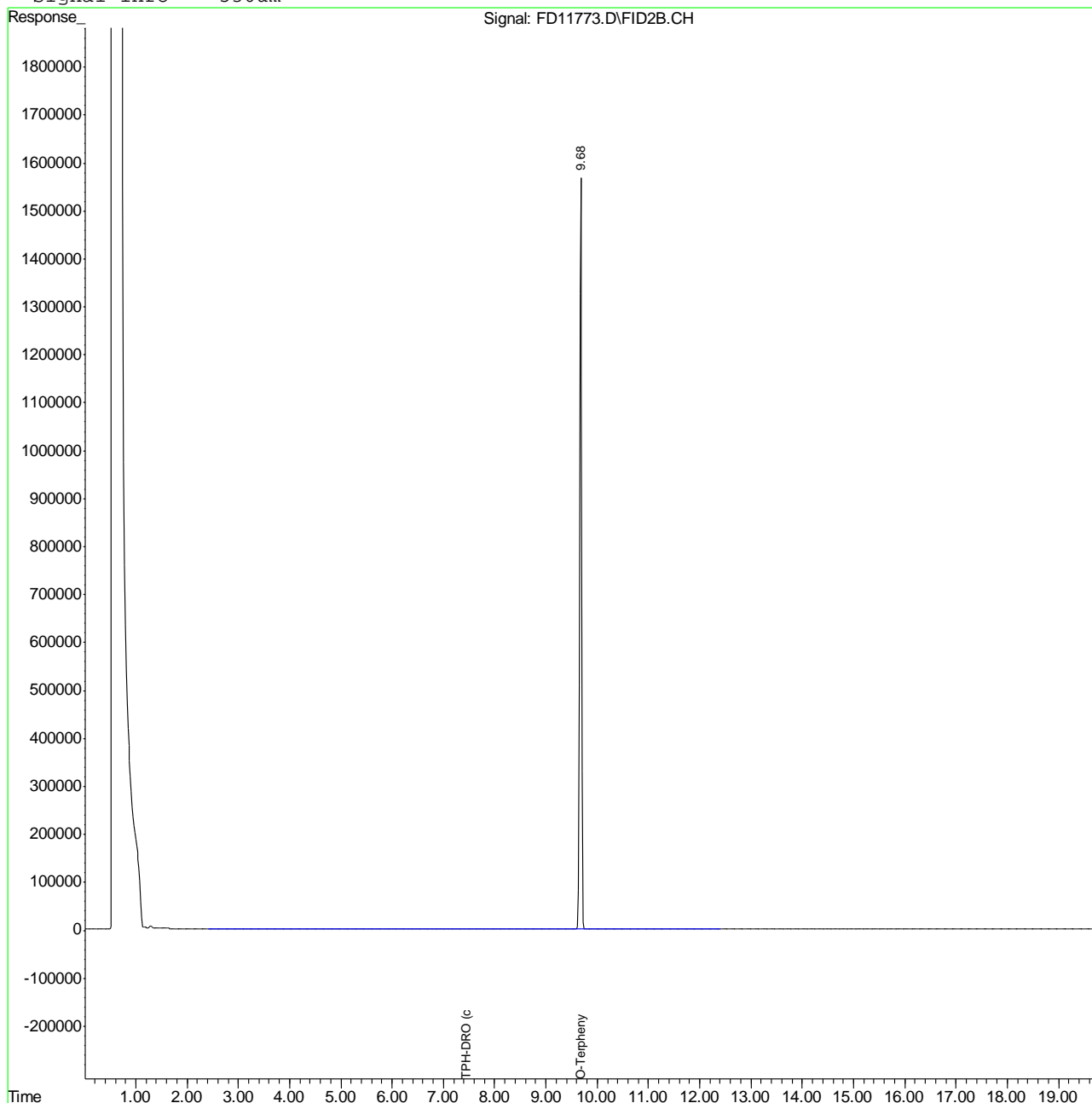
(f)=RT Delta > 1/2 Window (m)=manual int.
FD11773.D GFD599.M Tue Nov 29 10:40:25 2011 GC

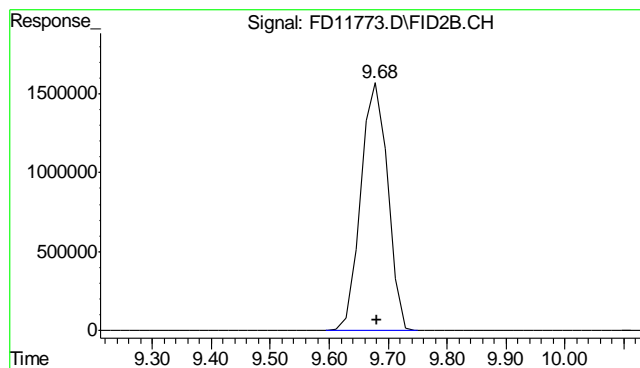
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2011\NOV\FD112811\FD11773.D Vial: 12
Acq On : 11-28-2011 09:25:46 PM Operator: TEDR
Sample : OP4885-MB Inst : FID5
Misc : OP4885,GFD599,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Nov 29 10:04 2011 Quant Results File: GFD599.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD599.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Tue Nov 29 09:00:39 2011
Response via : Multiple Level Calibration
DataAcq Meth : JH080911.M

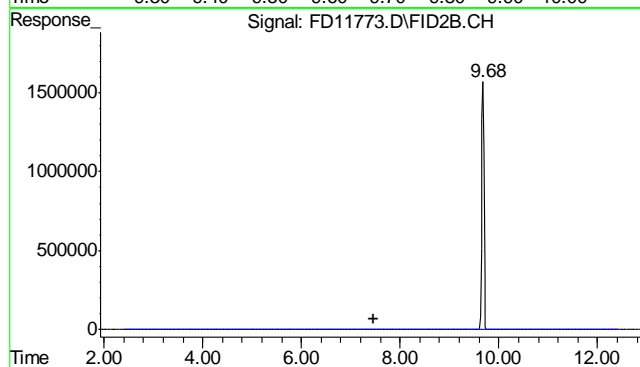
Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





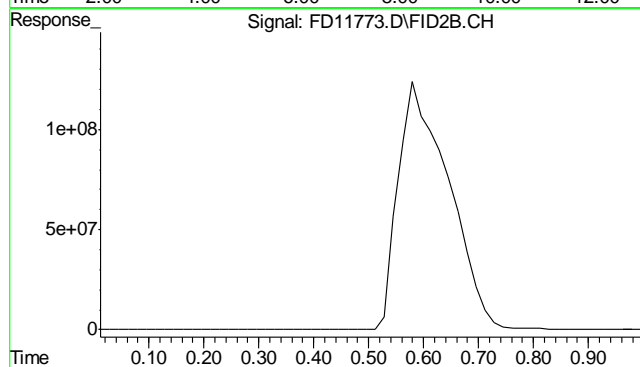
#1 O-Terphenyl

R.T.: 9.676 min
Delta R.T.: -0.004 min
Response: 49721277
Conc: 942.24 mg/L m



#2 TPH-DRO (c10-c28)

R.T.: 7.455 min
Delta R.T.: 0.000 min
Response: 2428144
Conc: 46.98 mg/L m



#9 5a-Androstane

R.T.: 0.000 min
Exp R.T.: 0.000 min
Response: 0
Conc: N.D.