Mountain States ACCUTEST LABORATORIES

03/07/12

Technical Report for

XTO Energy

FRU 197-33A

1103-03A

Accutest Job Number: D32369

Sampling Date: 02/29/12

Report to:

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

Total number of pages in report: **56**

ACCREDITED IN ACCORDANCE WITH nelac

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

Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

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

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7 8

Table of Contents

Sample Summary

XTO Energy

Job No: D32369

FRU 197-33A
Project No: 1103-03A

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D32369-1	02/29/12	13:30	DS	03/02/12	SO	Soil	CUT 1 M/B DAY 10 (2/27)
D32369-2	02/29/12	13:45	DS	03/02/12	SO	Soil	CUT 1 M/B DAY 11 (2/28)
D32369-3	02/29/12	14:00	DS	03/02/12	SO	Soil	CUT 1 M/B DAY 12 (2/29)

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	XTO Energy	**Job No**	D32369
Site:	FRU 197-33A	**Report Date**	3/7/2012 9:40:50 AM

On 03/02/2012, 3 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3.2 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D32369 was assigned to the project. The lab sample IDs, client sample IDs, 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 GC By Method SW846 8015B

Matrix SO **Batch ID:** GGB853

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D32298-1MS, D32298-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO **Batch ID:** OP5468

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D32353-1MS, D32353-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO **Batch ID:** GN13951

- 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.

Mountain States ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID: CUT 1 M/B DAY 10 (2/27)
Lab Sample ID: D32369-1
Matrix: SO - Soil
Method: SW846 8015B
Project: FRU 197-33A

Date Sampled: 02/29/12
Date Received: 03/02/12
Percent Solids: 86.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB15206.D	1	03/02/12	SK	n/a	n/a	GGB853
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)	8.23	13	6.6	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	94%		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

Client Sample ID: CUT 1 M/B DAY 10 (2/27)
Lab Sample ID: D32369-1
Matrix: SO - Soil
Method: SW846-8015B SW846 3546
Project: FRU 197-33A

Date Sampled: 02/29/12
Date Received: 03/02/12
Percent Solids: 86.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH001902.D	1	03/03/12	TR	03/02/12	OP5468	GFH97
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)	118	15	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		43-136%

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

Client Sample ID: CUT 1 M/B DAY 11 (2/28)
Lab Sample ID: D32369-2
Matrix: SO - Soil
Method: SW846 8015B
Project: FRU 197-33A

Date Sampled: 02/29/12
Date Received: 03/02/12
Percent Solids: 87.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB15207.D	1	03/02/12	SK	n/a	n/a	GGB853
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	10.5	13	6.3	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	91%		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

Client Sample ID: CUT 1 M/B DAY 11 (2/28)
Lab Sample ID: D32369-2
Matrix: SO - Soil
Method: SW846-8015B SW846 3546
Project: FRU 197-33A

Date Sampled: 02/29/12
Date Received: 03/02/12
Percent Solids: 87.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH001906.D	1	03/03/12	TR	03/02/12	OP5468	GFH97
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)	171	15	9.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		43-136%

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

Client Sample ID:	CUT 1 M/B DAY 12 (2/29)		
Lab Sample ID:	D32369-3	**Date Sampled:**	02/29/12
Matrix:	SO - Soil	**Date Received:**	03/02/12
Method:	SW846 8015B	**Percent Solids:**	84.9
Project:	FRU 197-33A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB15208.D	1	03/02/12	SK	n/a	n/a	GGB853
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)	11.4	13	6.7	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	89%		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

Client Sample ID: CUT 1 M/B DAY 12 (2/29)
Lab Sample ID: D32369-3
Matrix: SO - Soil
Method: SW846-8015B SW846 3546
Project: FRU 197-33A

Date Sampled: 02/29/12
Date Received: 03/02/12
Percent Solids: 84.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH001908.D	1	03/03/12	TR	03/02/12	OP5468	GFH97
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)	172	16	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	53%		43-136%

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

Mountain States ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

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

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: D32369

Client / Reporting Information

Company Name: KRW CONSULTING
Street Address: 8000 W 14TH AVE STE 200
City: LAKEWOOD State: CO Zip: 80214
Project Contact: DWAYNE KNUDSON E-mail:
Phone #: 970 488 1098 Fax #:
Sampler(s) Name(s): DAVID SANDERS Phone #: 970 488 1098

Project Information

Project Name: XTO FRU 197-33A
Street:
City:
Project#: 1103-03A
Client PO#:
Project Manager: JOE HESS

Billing Information (If different from Report to)

Company Name: XTO ENERGY
Street Address: 21459 CR5
City: RIFLE State: CO Zip: 81650
Attention: JESSICA DOOLING PO#:

Requested Analysis (see TEST CODE sheet)

TPH (GRO + DRO)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	TPH (GRO + DRO)	LAB USE ONLY
	CUT 1 M/B DAY 10 (2/27)		2/29/12	13:30	DLS	SO	1					X					X	01
	CUT 1 M/B DAY 11 (2/28)		2/29/12	13:45	DLS	SO	1					X					X	02
	CUT 1 M/B DAY 12 (2/29)		2/29/12	14:00	DLS	SO	1					X					X	03
																		3/2/12

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [ ] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [x] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] Commercial "B" +Narrative
- [ ] FULLT1 (Level 3+4)
- [ ] State Forms
- [ ] EDD Format
- [x] PDF

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

PLEASE EMAIL RESULTS TO KRW PICEANCE TEAM

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

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		3/1/12 1500	Rifle Service Center	2	3/1/12	FedEx
3		Date Time:	Received By: 3/2 1015	Relinquished By:	Date Time:	Received By:
5	Relinquished by:	Date Time:	Received By:	Custody Seal # FedEx	Intact / Not Intact	Preserved where applicable: On Ice: Cooler Temp. 3.2

D32369: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D32369 **Client:** KRW CONSULTING **Immediate Client Services Action Required:** No

Date / Time Received: 3/2/2012 10:15:00 AM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: XTO FRU 197-33A **Airbill #'s:** Fedex

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

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

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

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

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

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

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www/accutest.com

D32369: Chain of Custody
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Mountain States ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: D32369
Account: XTOKRWR XTO Energy
Project: FRU 197-33A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB853-MB	GB15200.D	1	03/02/12	SK	n/a	n/a	GGB853

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

D32369-1, D32369-2, D32369-3

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	94%	60-140%

Blank Spike Summary

Job Number: D32369
Account: XTOKRWR XTO Energy
Project: FRU 197-33A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB853-BS	GB15201.D	1	03/02/12	SK	n/a	n/a	GGB853

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

D32369-1, D32369-2, D32369-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	113	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	104%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D32369
Account: XTOKRWR XTO Energy
Project: FRU 197-33A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D32298-1MS	GB15203.D	1	03/02/12	SK	n/a	n/a	GGB853
D32298-1MSD	GB15204.D	1	03/02/12	SK	n/a	n/a	GGB853
D32298-1	GB15202.D	1	03/02/12	SK	n/a	n/a	GGB853

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

D32369-1, D32369-2, D32369-3

CAS No.	Compound	D32298-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	15.2		155	168	99	166	97	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D32298-1	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	100%	95%	60-140%
120-82-1	1,2,4-Trichlorobenzene	116%	111%		60-140%

Mountain States ACCUTEST LABORATORIES

GC Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Judy Melson 03/06/12 09:00

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\030212\GB15206.D\FID1A.CH Vial: 9
Signal #2 : Y:\1\DATA\030212\GB15206.D\FID2B.CH
Acq On : 2 Mar 2012 6:20 pm Operator: StephK
Sample : D32369-1, 50X Inst : GC/MS Ins
Misc : GC2653,GGB853,5.033,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Mar 05 08:39:03 2012 Quant Results File: TB851GB851SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB851GB851SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Mar 01 10:54:53 2012
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	14.35	2825767	93.670	%	m
10) S	1,2,4-Trichlorobenzene (P)	14.35	22985658	98.769	%	
	Target Compounds					
1) H	TVH-Gasoline	7.26	9058173	0.125	mg/L	
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L	d
5) T	Benzene	4.12	255369	0.461	ug/L	
6) T	Toluene	7.63	1428844	2.610	ug/L	
7) T	Ethylbenzene	10.27	272661	0.596	ug/L	
8) T	m,p-Xylene	10.45	1524849	2.723	ug/L	
9) T	o-Xylene	10.95	178651	0.390	ug/L	
11) T	Naphthalene	14.54	813048	3.112	ug/L	

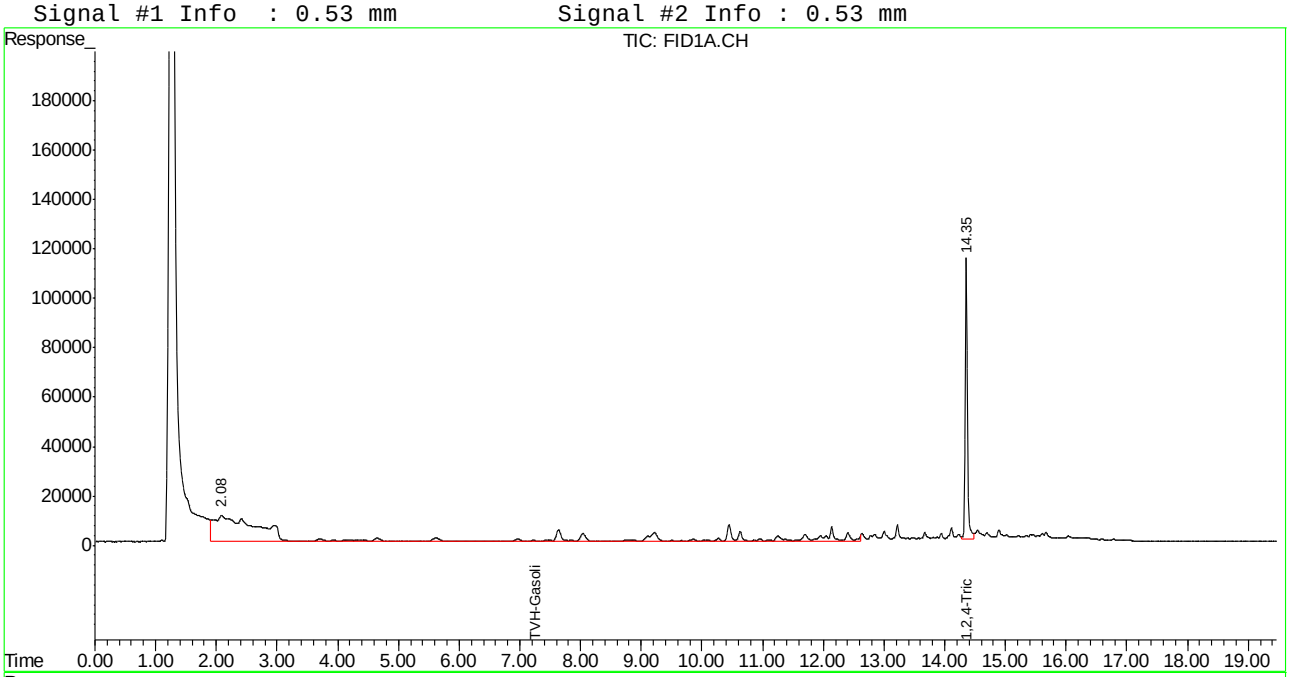
(f)=RT Delta > 1/2 Window (m)=manual int.
GB15206.D TB851GB851SOIL.M Mon Mar 05 08:47:11 2012 GC Page 1

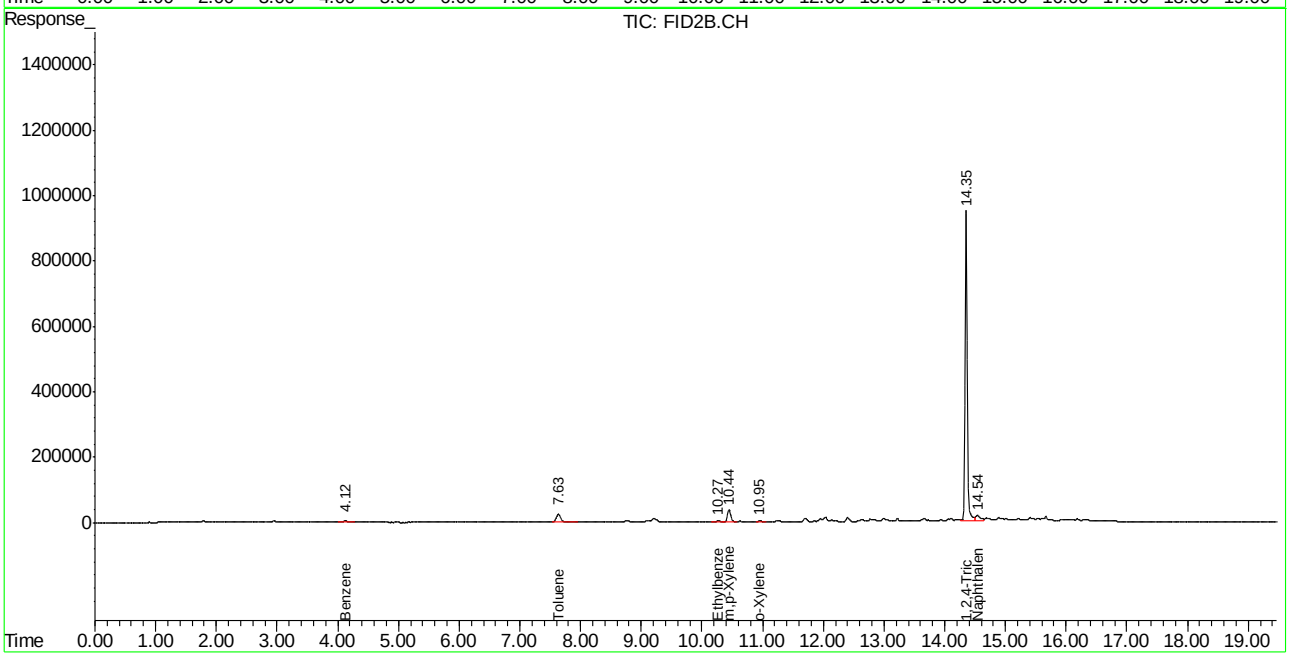
Quantitation Report (QT Reviewed)

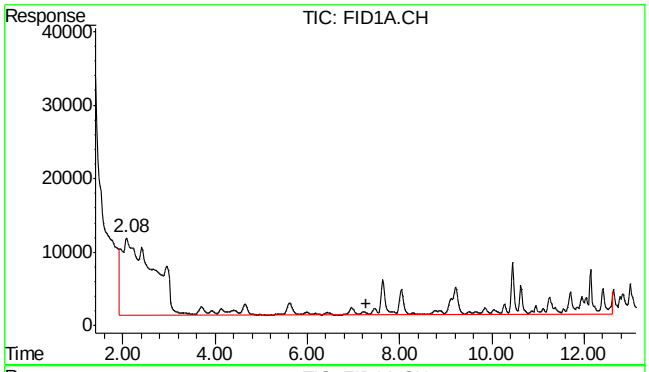
Signal #1 : Y:\1\DATA\030212\GB15206.D\FID1A.CH Vial: 9
Signal #2 : Y:\1\DATA\030212\GB15206.D\FID2B.CH
Acq On : 2 Mar 2012 6:20 pm Operator: StephK
Sample : D32369-1, 50X Inst : GC/MS Ins
Misc : GC2653,GGB853,5.033,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Mar 5 7:43 2012 Quant Results File: TB851GB851SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB851GB851SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Mar 01 10:54:53 2012
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

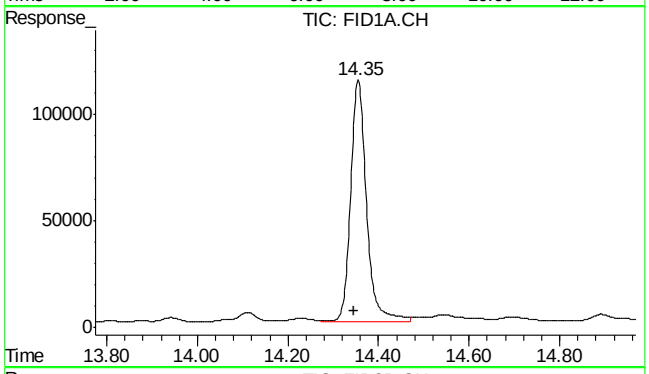






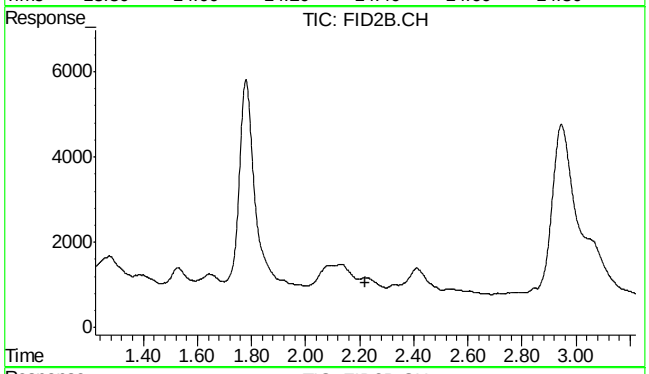
#1 TVH-Gasoline

R.T.: 7.265 min
Delta R.T.: 0.000 min
Response: 9058173
Conc: 0.13 mg/L m



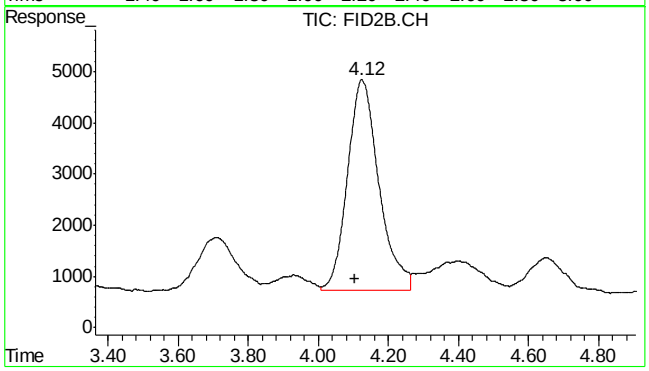
#2 1,2,4-Trichlorobenzene

R.T.: 14.355 min
Delta R.T.: 0.009 min
Response: 2825767
Conc: 93.67 % m



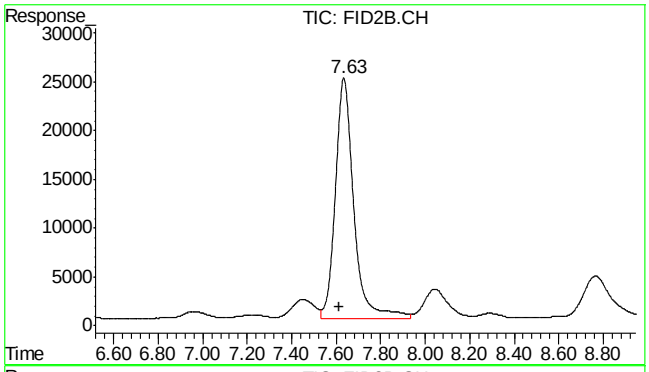
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T. : 2.223 min
Response: 0
Conc: N.D.



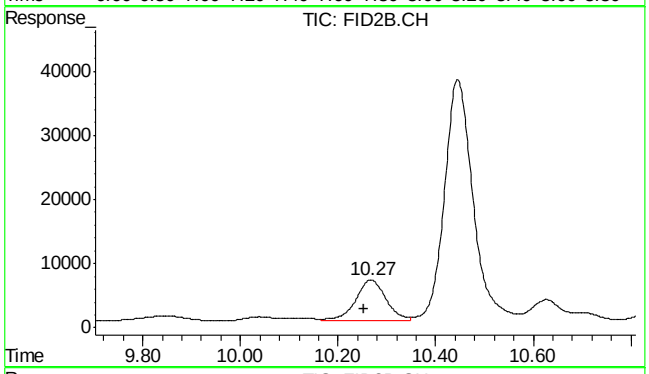
#5 Benzene

R.T.: 4.125 min
Delta R.T.: 0.020 min
Response: 255369
Conc: 0.46 ug/L



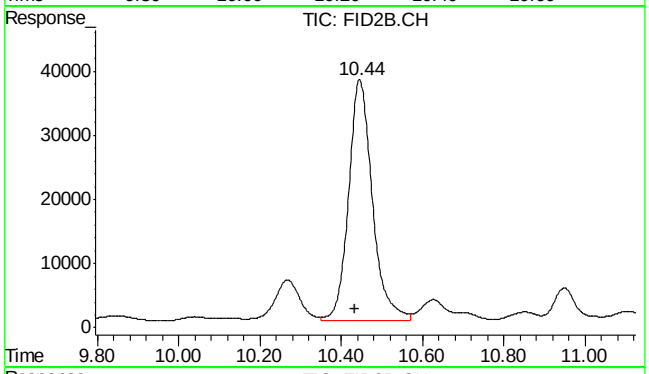
#6 Toluene

R.T.: 7.635 min
Delta R.T.: 0.023 min
Response: 1428844
Conc: 2.61 ug/L



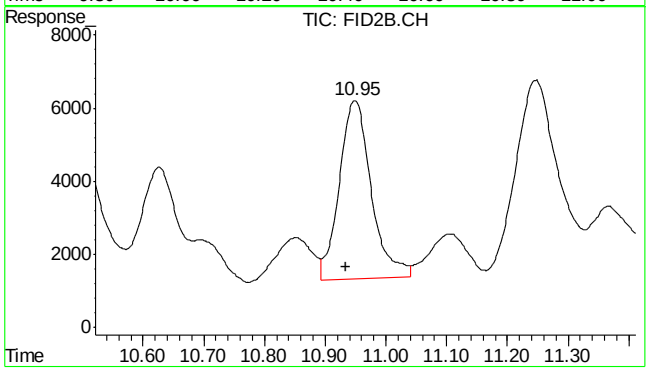
#7 Ethylbenzene

R.T.: 10.268 min
Delta R.T.: 0.015 min
Response: 272661
Conc: 0.60 ug/L



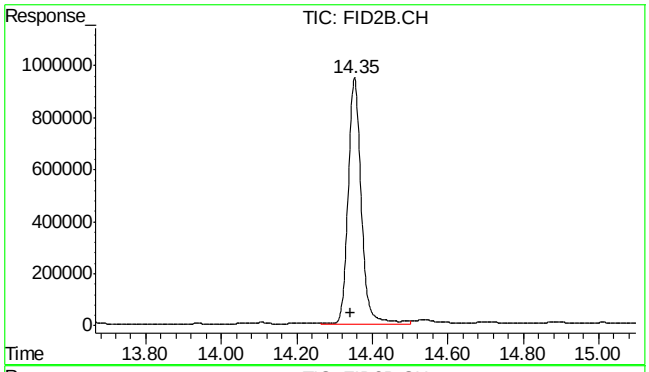
#8 m,p-Xylene

R.T.: 10.445 min
Delta R.T.: 0.011 min
Response: 1524849
Conc: 2.72 ug/L



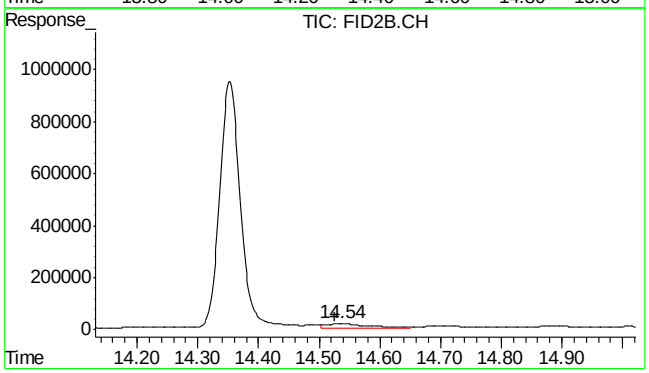
#9 o-Xylene

R.T.: 10.949 min
Delta R.T.: 0.015 min
Response: 178651
Conc: 0.39 ug/L



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

R.T.:	14.353 min
Delta R.T.:	0.009 min
Response:	22985658
Conc:	98.77 %



#11 Naphthalene

R.T.:	14.537 min
Delta R.T.:	0.011 min
Response:	813048
Conc:	3.11 ug/L

Manual Integrations APPROVED (compounds with "m" flag)
Judy Melson 03/06/12 09:00

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\030212\GB15207.D\FID1A.CH Vial: 10
Signal #2 : Y:\1\DATA\030212\GB15207.D\FID2B.CH
Acq On : 2 Mar 2012 6:56 pm Operator: StephK
Sample : D32369-2, 50X Inst : GC/MS Ins
Misc : GC2653,GGB853,5.061,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Mar 05 08:39:07 2012 Quant Results File: TB851GB851SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB851GB851SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Mar 01 10:54:53 2012
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	14.36	2740429	90.841	%	m
10) S	1,2,4-Trichlorobenzene (P)	14.36	22826009	98.083	%	
	Target Compounds					
1) H	TVH-Gasoline	7.26	11945315	0.165	mg/L	
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L	d
5) T	Benzene	4.13	221597	0.400	ug/L	
6) T	Toluene	7.64	1883672	3.441	ug/L	
7) T	Ethylbenzene	10.27	484565	1.060	ug/L	
8) T	m,p-Xylene	10.45	2442786	4.362	ug/L	
9) T	o-Xylene	10.95	238862	0.521	ug/L	
11) T	Naphthalene	14.54	1739469	6.657	ug/L	

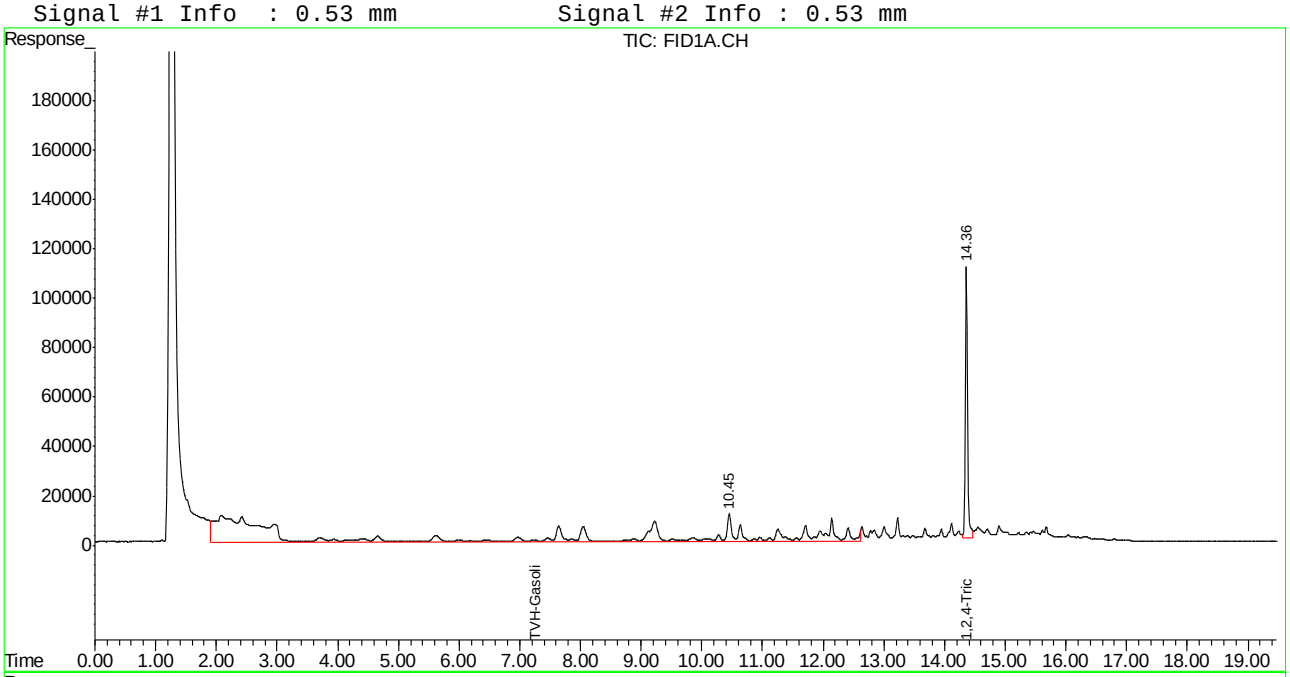
(f)=RT Delta > 1/2 Window (m)=manual int.

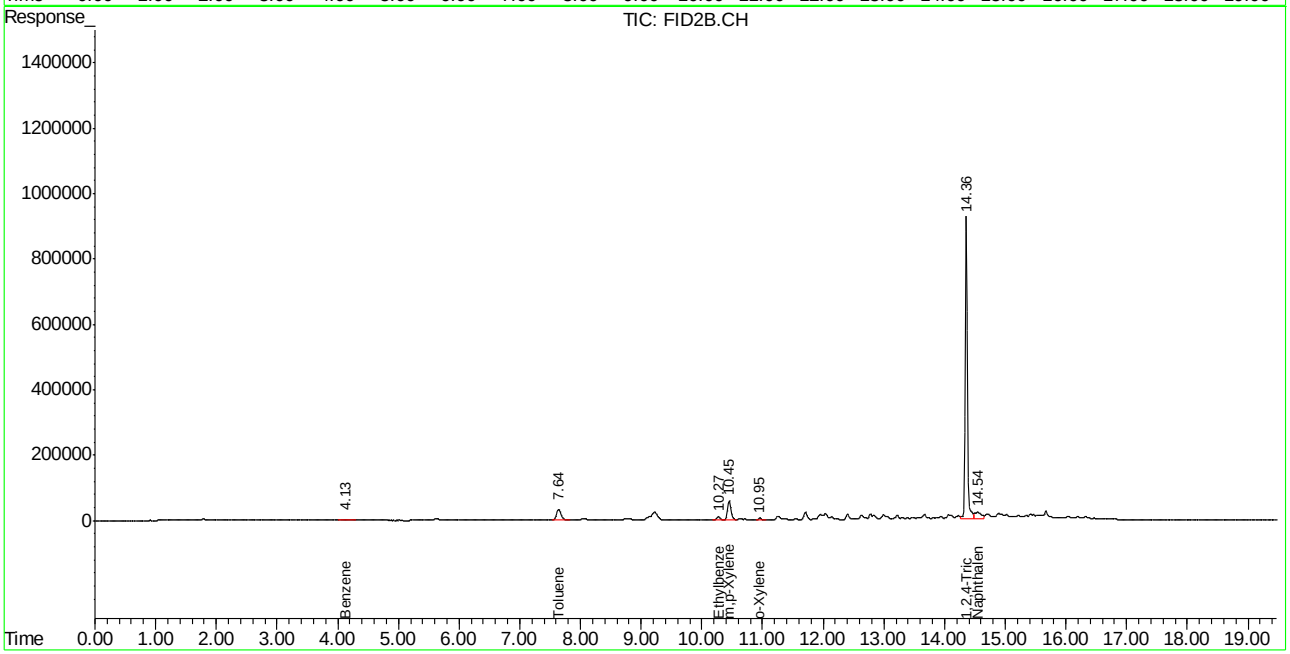
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\030212\GB15207.D\FID1A.CH Vial: 10
Signal #2 : Y:\1\DATA\030212\GB15207.D\FID2B.CH
Acq On : 2 Mar 2012 6:56 pm Operator: StephK
Sample : D32369-2, 50X Inst : GC/MS Ins
Misc : GC2653,GGB853,5.061,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Mar 5 7:44 2012 Quant Results File: TB851GB851SOIL.RES

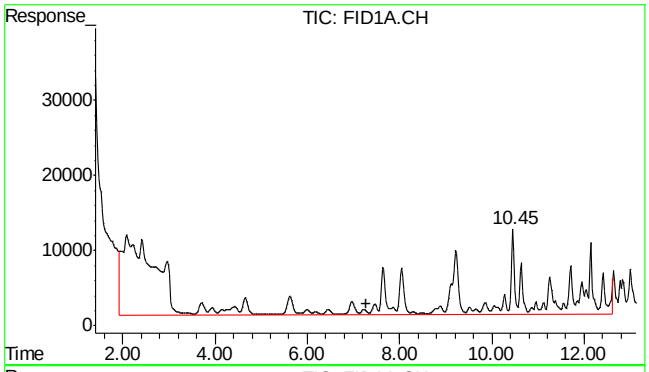
Quant Method : C:\MSDCHEM\1...\TB851GB851SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Mar 01 10:54:53 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

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



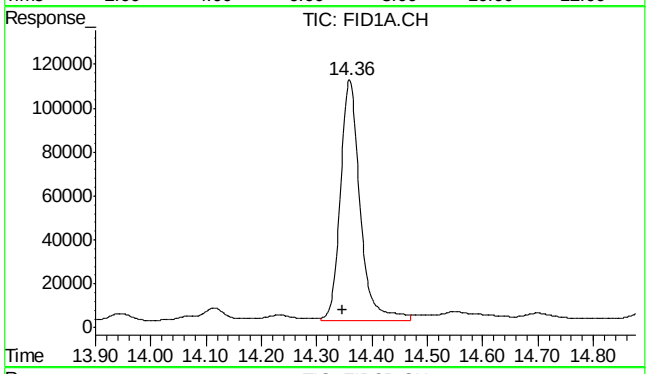


GB15207.D TB851GB851SOIL.M Mon Mar 05 08:47:14 2012 GC Page 2



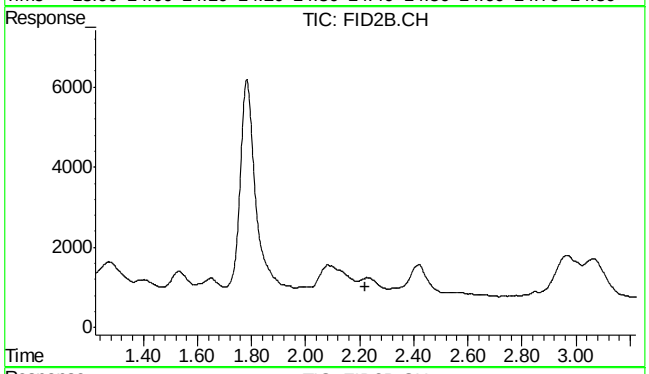
#1 TVH-Gasoline

R.T.: 7.265 min
Delta R.T.: 0.000 min
Response: 11945315
Conc: 0.17 mg/L m



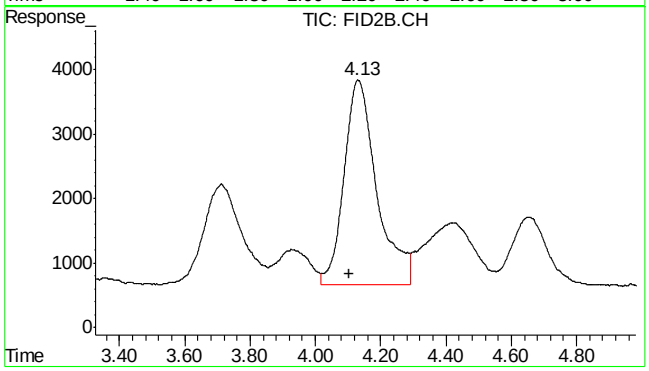
#2 1,2,4-Trichlorobenzene

R.T.: 14.359 min
Delta R.T.: 0.013 min
Response: 2740429
Conc: 90.84 % m



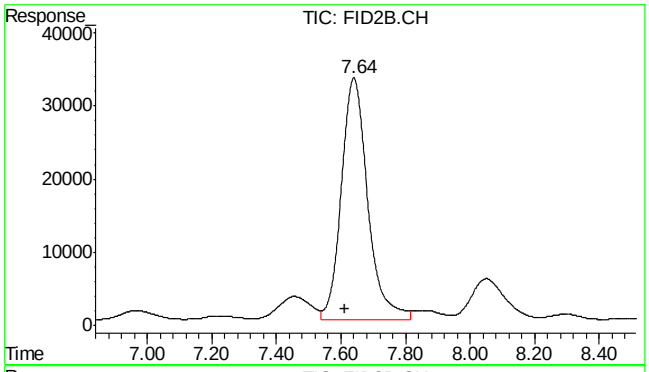
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T. : 2.223 min
Response: 0
Conc: N.D.



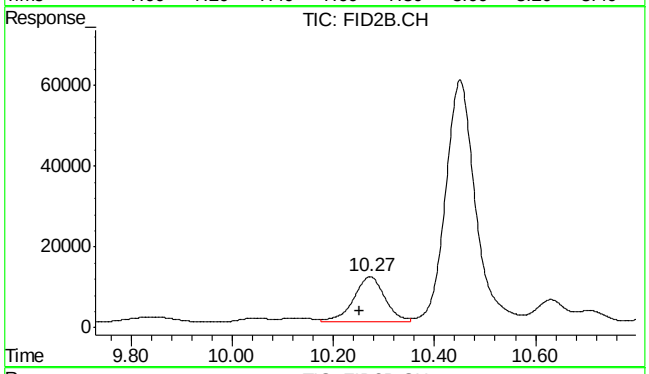
#5 Benzene

R.T.: 4.130 min
Delta R.T.: 0.025 min
Response: 221597
Conc: 0.40 ug/L



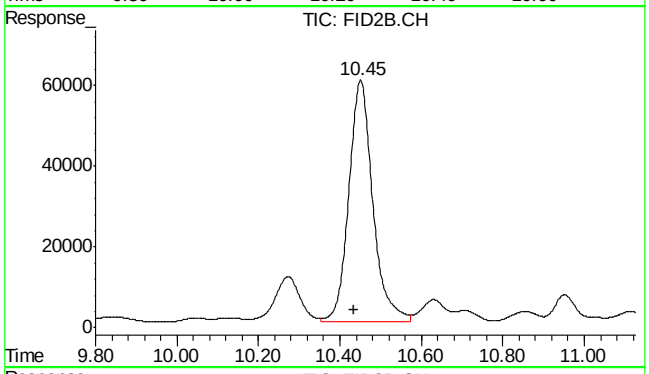
#6 Toluene

R.T.: 7.640 min
Delta R.T.: 0.028 min
Response: 1883672
Conc: 3.44 ug/L



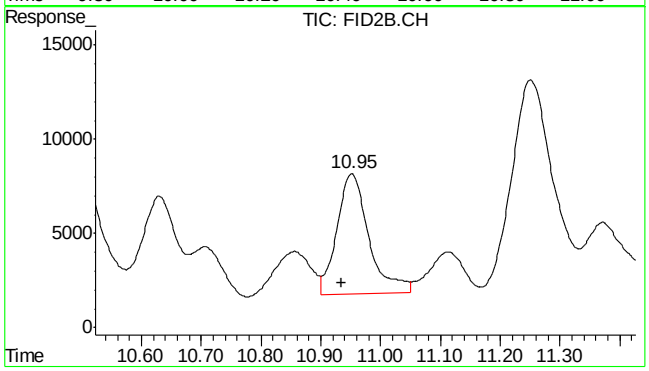
#7 Ethylbenzene

R.T.: 10.273 min
Delta R.T.: 0.020 min
Response: 484565
Conc: 1.06 ug/L



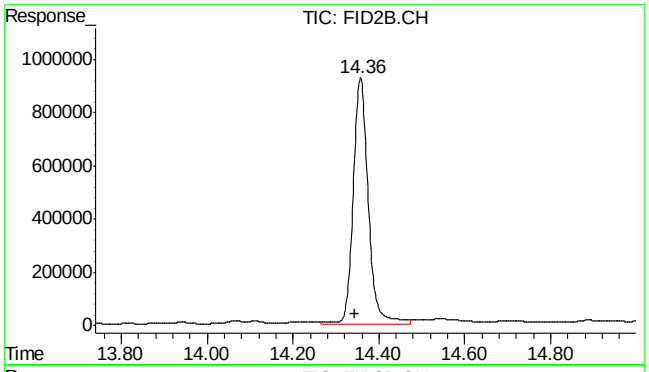
#8 m,p-Xylene

R.T.: 10.451 min
Delta R.T.: 0.017 min
Response: 2442786
Conc: 4.36 ug/L



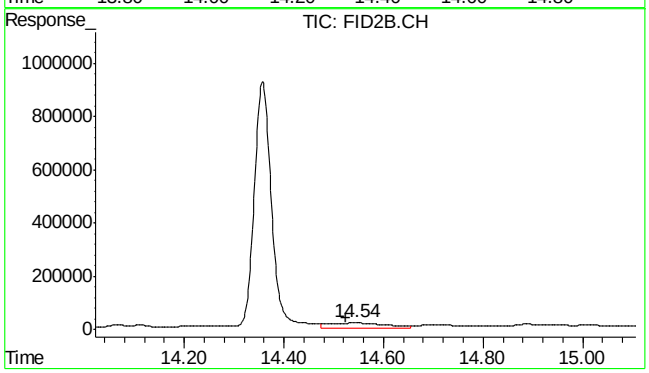
#9 o-Xylene

R.T.: 10.952 min
Delta R.T.: 0.018 min
Response: 238862
Conc: 0.52 ug/L



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

R.T.:	14.357 min
Delta R.T.:	0.014 min
Response:	22826009
Conc:	98.08 %



#11 Naphthalene

R.T.:	14.544 min
Delta R.T.:	0.018 min
Response:	1739469
Conc:	6.66 ug/L

Manual Integrations APPROVED (compounds with "m" flag)
Judy Melson
03/06/12 09:00

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\030212\GB15208.D\FID1A.CH Vial: 11
Signal #2 : Y:\1\DATA\030212\GB15208.D\FID2B.CH
Acq On : 2 Mar 2012 7:32 pm Operator: StephK
Sample : D32369-3, 50X Inst : GC/MS Ins
Misc : GC2653,GGB853,5.033,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Mar 05 08:39:11 2012 Quant Results File: TB851GB851SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB851GB851SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Mar 01 10:54:53 2012
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	14.35	2695726	89.360	%	m
10) S	1,2,4-Trichlorobenzene (P)	14.35	22326884	95.939	%	
	Target Compounds					
1) H	TVH-Gasoline	7.26	12268112	0.170	mg/L	
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L	d
5) T	Benzene	4.12	313131	0.566	ug/L	
6) T	Toluene	7.62	2082440	3.804	ug/L	
7) T	Ethylbenzene	10.26	470844	1.030	ug/L	
8) T	m,p-Xylene	10.44	2472668	4.416	ug/L	
9) T	o-Xylene	10.94	254387	0.555	ug/L	
11) T	Naphthalene	14.53	1561848	5.977	ug/L	

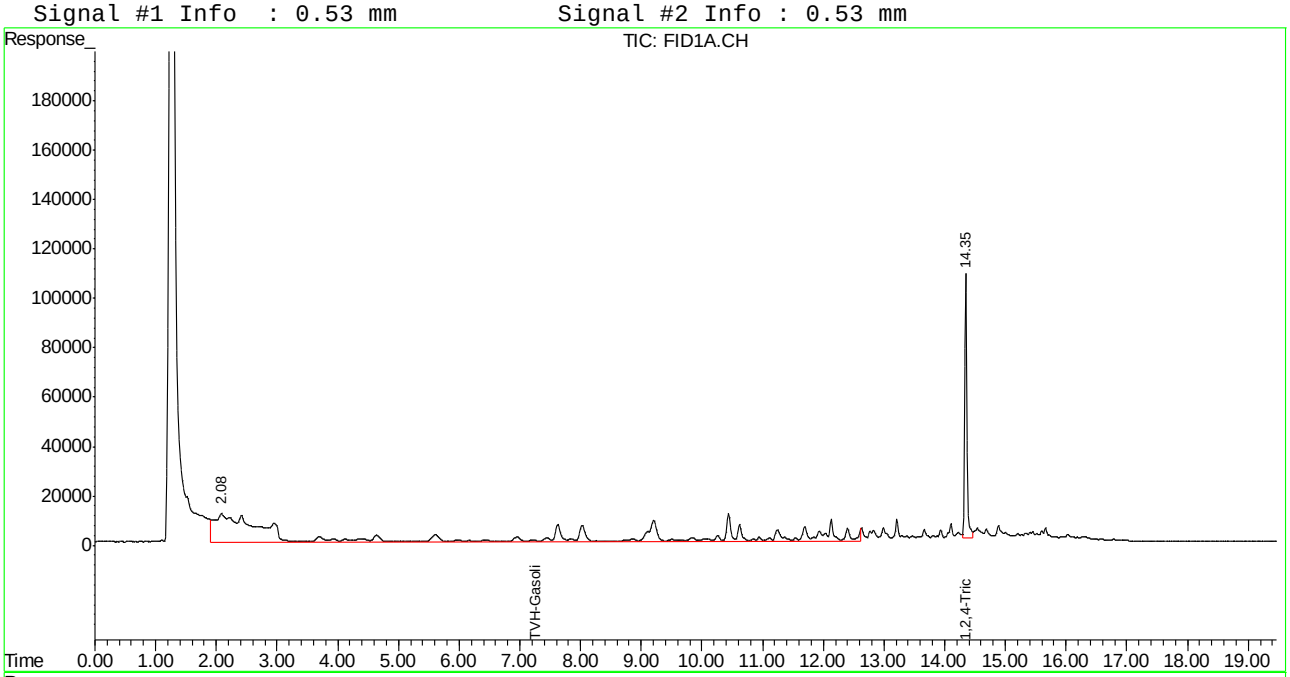
(f)=RT Delta > 1/2 Window (m)=manual int.
GB15208.D TB851GB851SOIL.M Mon Mar 05 08:47:17 2012 GC Page 1

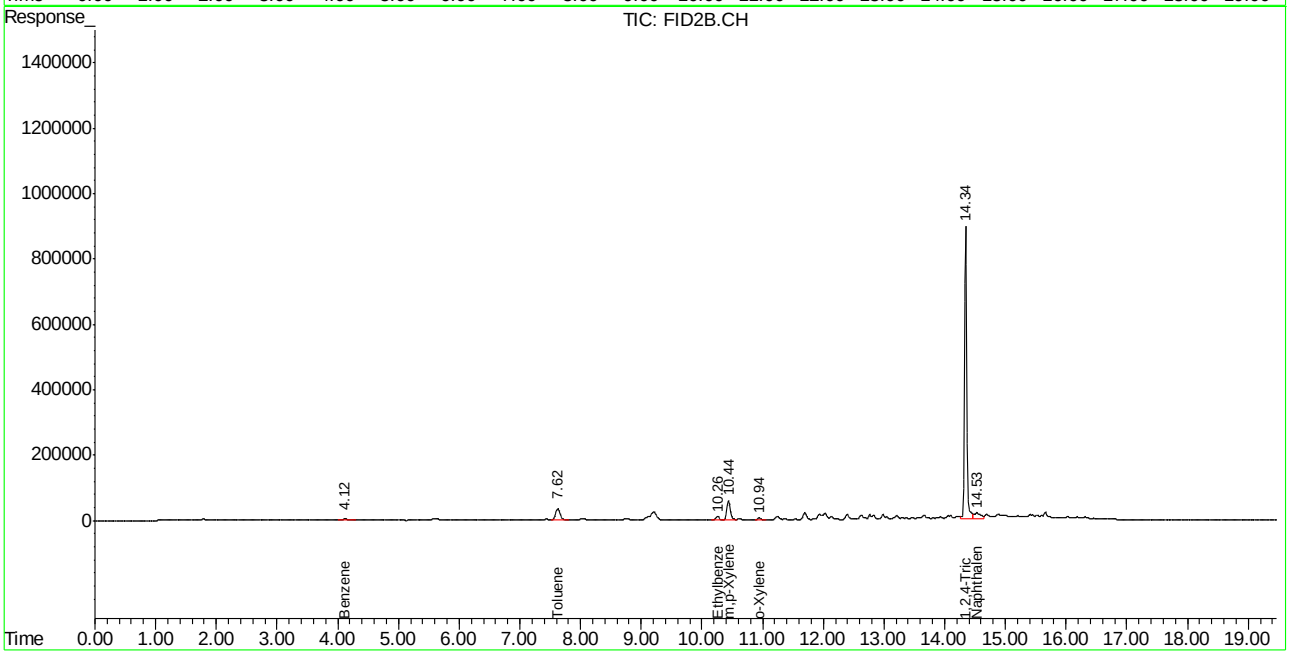
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\030212\GB15208.D\FID1A.CH Vial: 11
Signal #2 : Y:\1\DATA\030212\GB15208.D\FID2B.CH
Acq On : 2 Mar 2012 7:32 pm Operator: StephK
Sample : D32369-3, 50X Inst : GC/MS Ins
Misc : GC2653,GGB853,5.033,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Mar 5 7:45 2012 Quant Results File: TB851GB851SOIL.RES

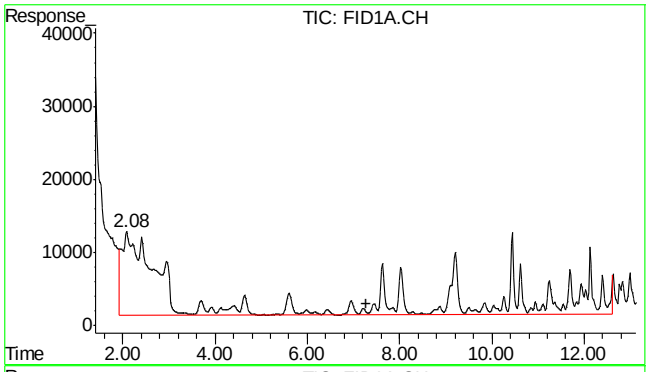
Quant Method : C:\MSDCHEM\1...\TB851GB851SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Mar 01 10:54:53 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

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



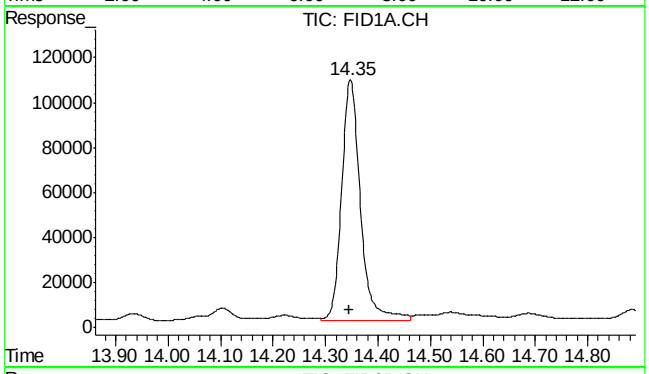


GB15208.D TB851GB851SOIL.M Mon Mar 05 08:47:17 2012 GC Page 2



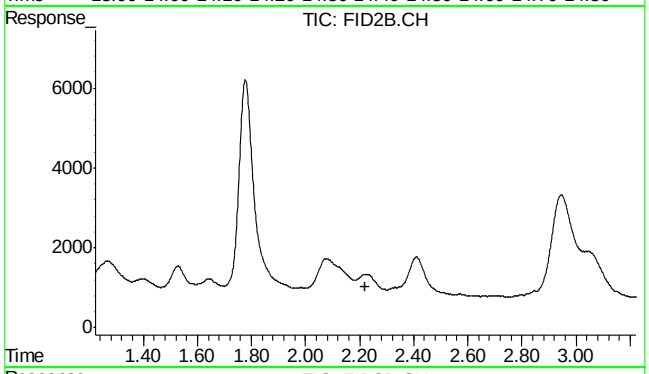
#1 TVH-Gasoline

R.T.: 7.265 min
Delta R.T.: 0.000 min
Response: 12268112
Conc: 0.17 mg/L m



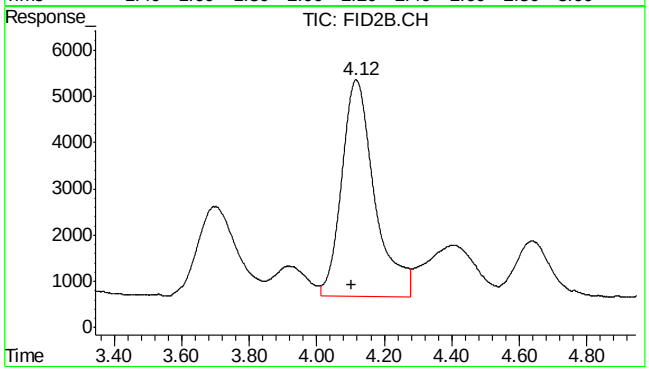
#2 1,2,4-Trichlorobenzene

R.T.: 14.347 min
Delta R.T.: 0.001 min
Response: 2695726
Conc: 89.36 % m



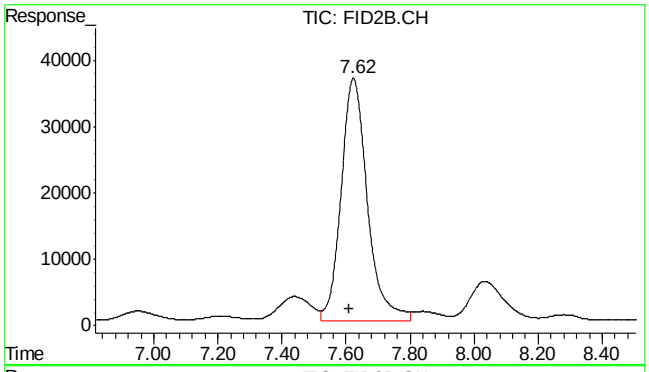
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T. : 2.223 min
Response: 0
Conc: N.D.



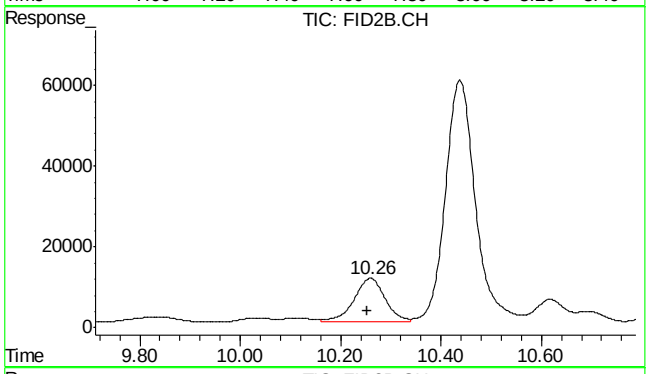
#5 Benzene

R.T.: 4.117 min
Delta R.T.: 0.013 min
Response: 313131
Conc: 0.57 ug/L



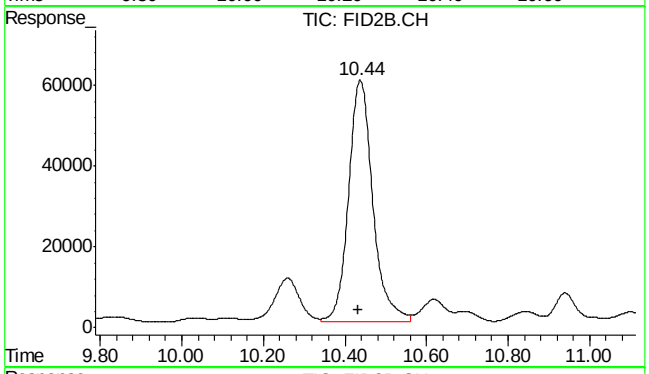
#6 Toluene

R.T.: 7.624 min
Delta R.T.: 0.012 min
Response: 2082440
Conc: 3.80 ug/L



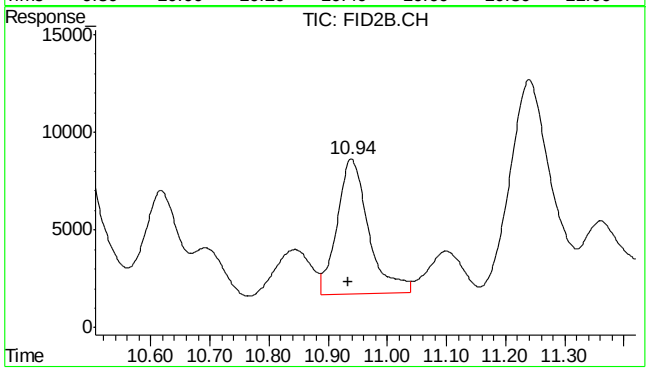
#7 Ethylbenzene

R.T.: 10.260 min
Delta R.T.: 0.007 min
Response: 470844
Conc: 1.03 ug/L



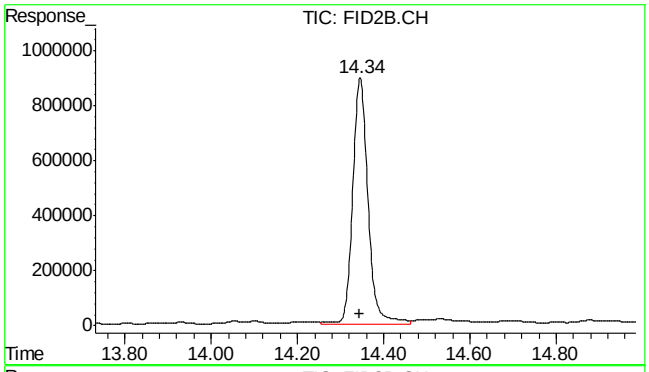
#8 m,p-Xylene

R.T.: 10.438 min
Delta R.T.: 0.004 min
Response: 2472668
Conc: 4.42 ug/L



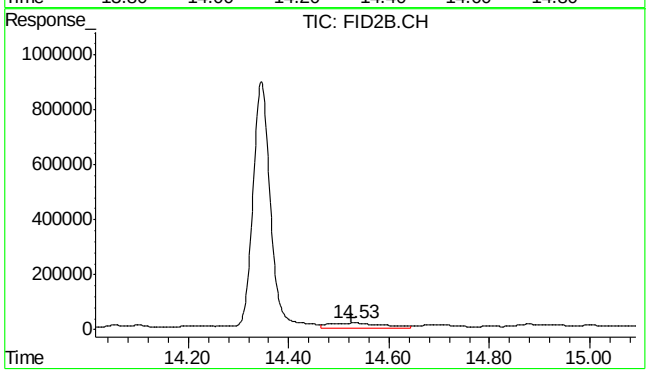
#9 o-Xylene

R.T.: 10.940 min
Delta R.T.: 0.006 min
Response: 254387
Conc: 0.56 ug/L



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

R.T.:	14.346 min
Delta R.T.:	0.002 min
Response:	22326884
Conc:	95.94 %



#11 Naphthalene

R.T.:	14.532 min
Delta R.T.:	0.006 min
Response:	1561848
Conc:	5.98 ug/L

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\030212\GB15200.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\030212\GB15200.D\FID2B.CH
Acq On : 2 Mar 2012 2:46 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC2653,GGB853,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Mar 02 16:48:28 2012 Quant Results File: TB851GB851SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB851GB851SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Mar 01 10:54:53 2012
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	14.37	2839582	94.128	%	
10) S	1,2,4-Trichlorobenzene (P)	14.36	23426587	100.664	%	
	Target Compounds					
1) H	TVH-Gasoline	7.26	5976696	<MDL	mg/L	
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L	d
5) T	Benzene	4.13	126175	0.228	ug/L	
6) T	Toluene	7.65	187915	0.343	ug/L	
7) T	Ethylbenzene	0.00	0	N.D.	ug/L	d
8) T	m,p-Xylene	10.46	177569	0.317	ug/L	
9) T	o-Xylene	0.00	0	N.D.	ug/L	d
11) T	Naphthalene	14.55	335898	1.286	ug/L	

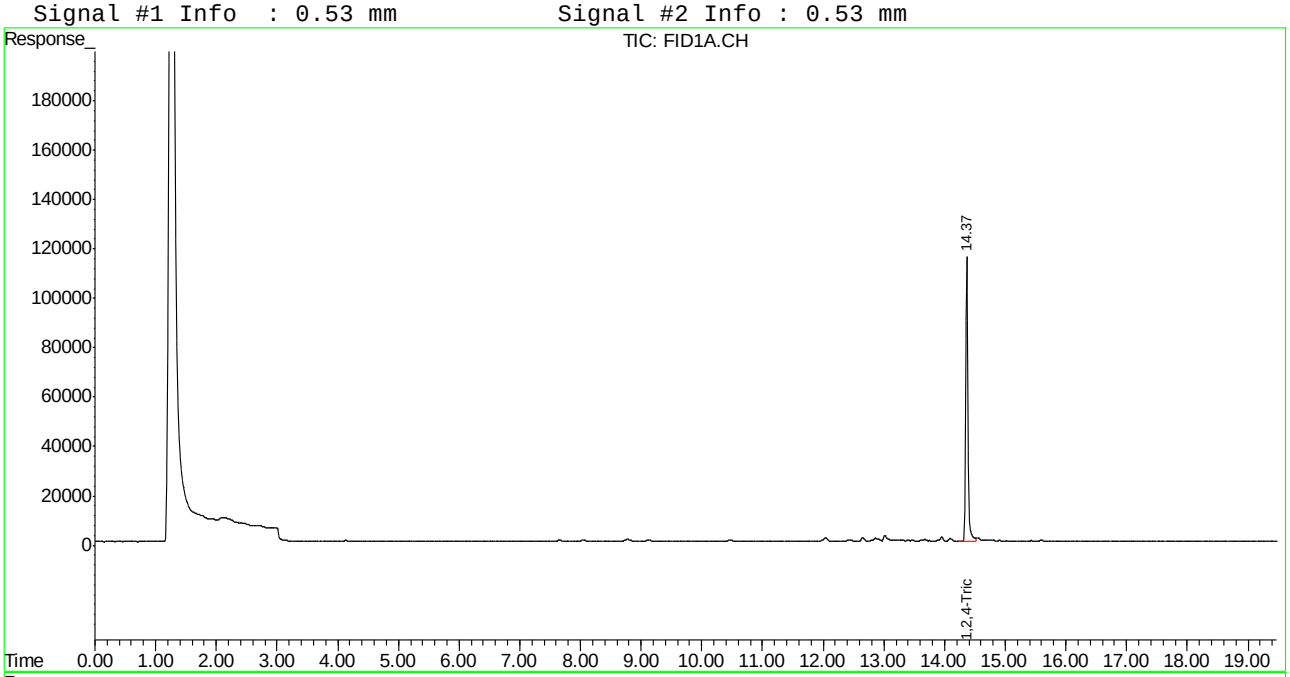
(f)=RT Delta > 1/2 Window (m)=manual int.

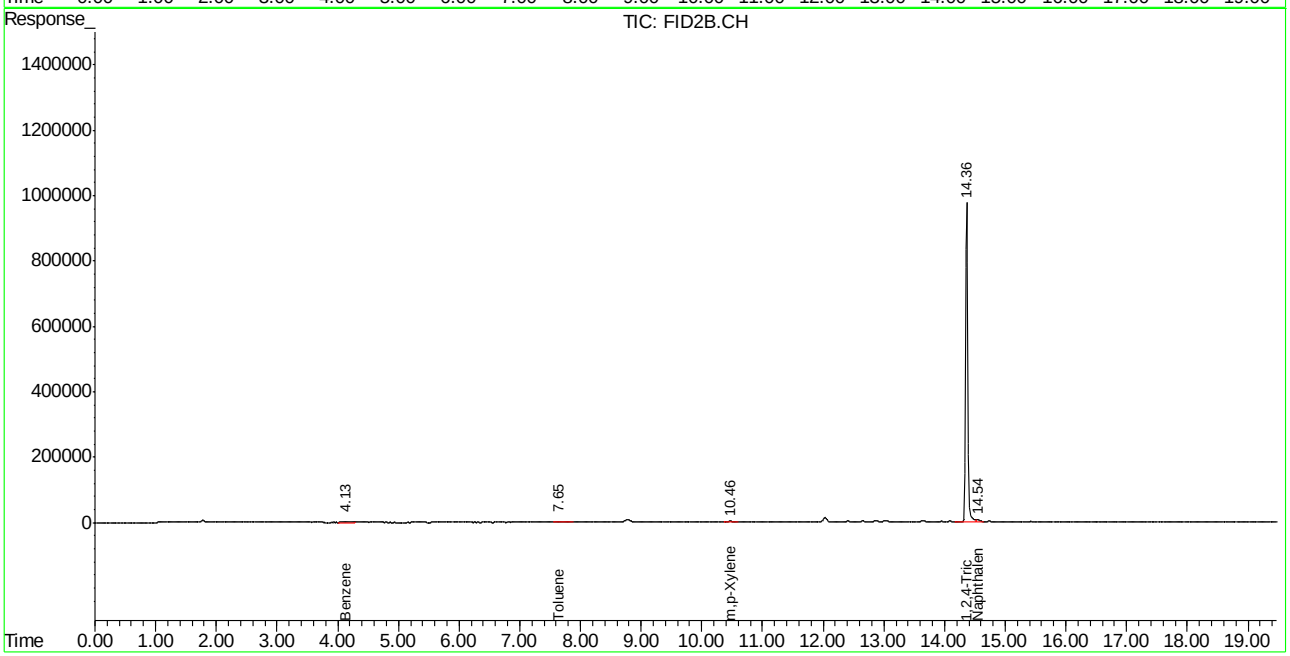
Quantitation Report (QT Reviewed)

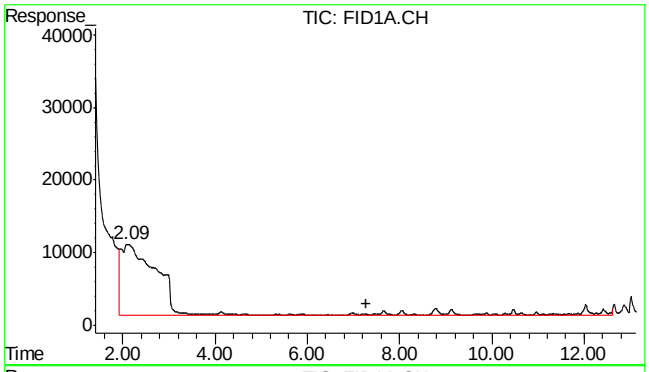
Signal #1 : Y:\1\DATA\030212\GB15200.D\FID1A.CH Vial: 3
Signal #2 : Y:\1\DATA\030212\GB15200.D\FID2B.CH
Acq On : 2 Mar 2012 2:46 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC2653,GGB853,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Mar 2 15:51 2012 Quant Results File: TB851GB851SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB851GB851SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Thu Mar 01 10:54:53 2012
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

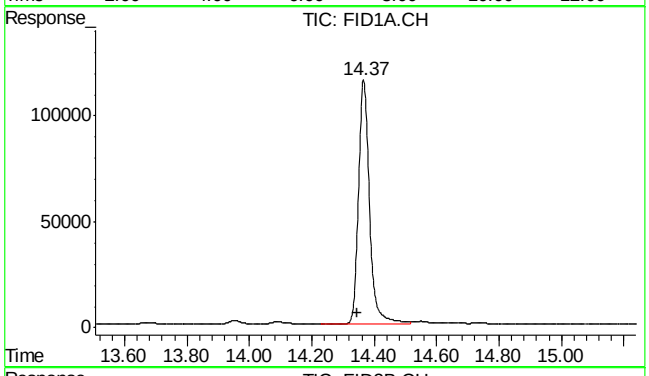






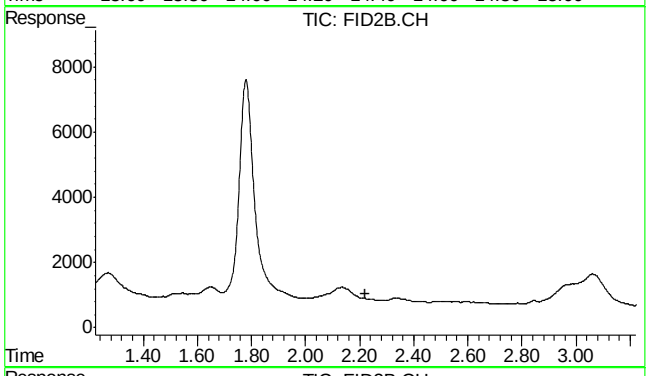
#1 TVH-Gasoline

R.T.: 7.265 min
Delta R.T.: 0.000 min
Response: 5976696
Conc: N.D.



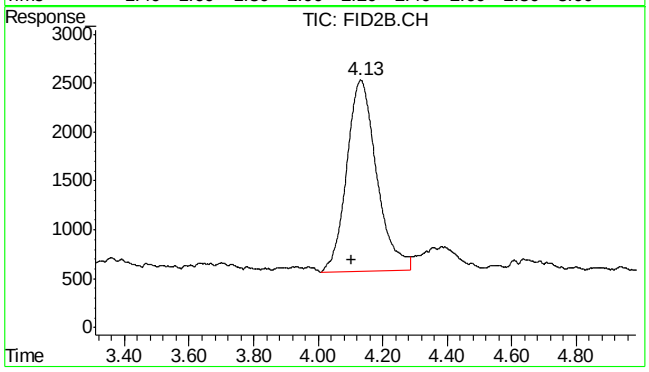
#2 1,2,4-Trichlorobenzene

R.T.: 14.366 min
Delta R.T.: 0.020 min
Response: 2839582
Conc: 94.13 %



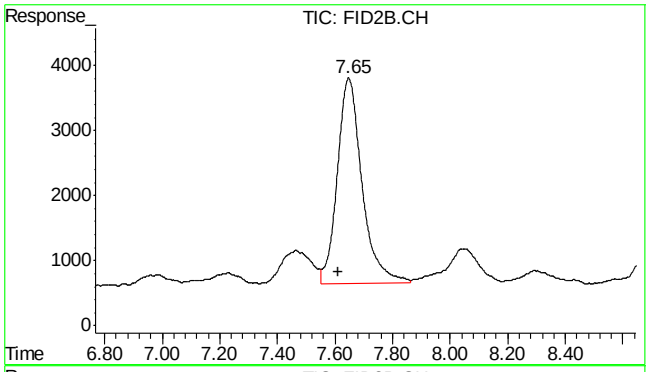
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T. : 2.223 min
Response: 0
Conc: N.D.



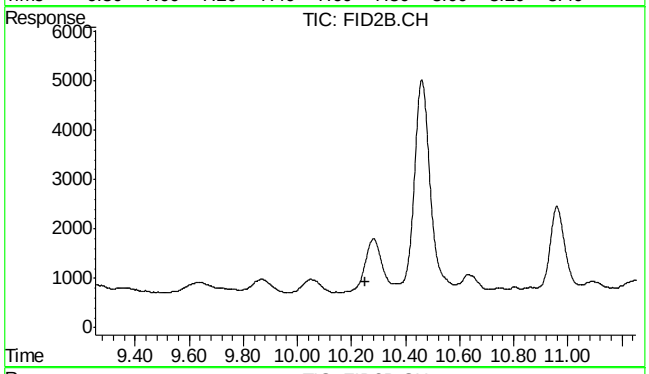
#5 Benzene

R.T.: 4.133 min
Delta R.T.: 0.029 min
Response: 126175
Conc: 0.23 ug/L



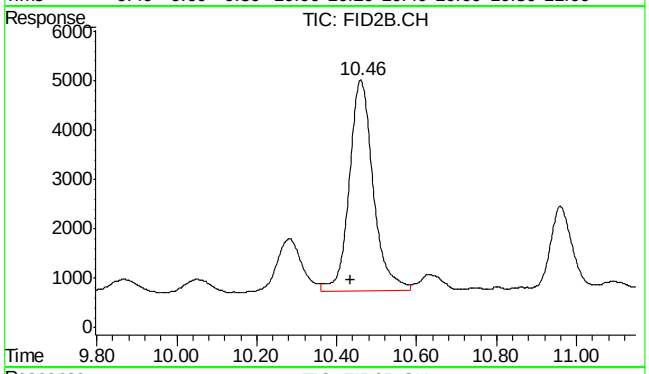
#6 Toluene

R.T.: 7.648 min
Delta R.T.: 0.036 min
Response: 187915
Conc: 0.34 ug/L



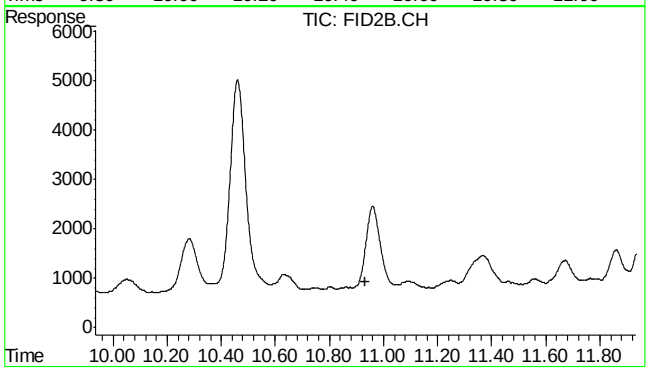
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T. : 10.252 min
Response: 0
Conc: N.D.



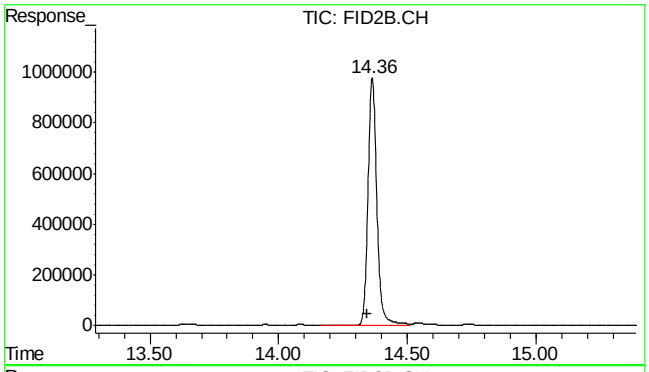
#8 m,p-Xylene

R.T.: 10.460 min
Delta R.T.: 0.026 min
Response: 177569
Conc: 0.32 ug/L



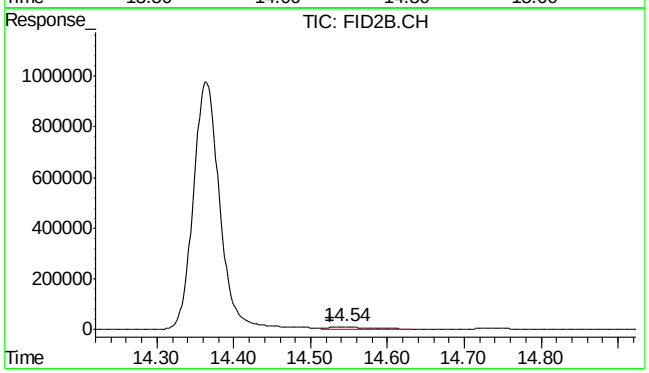
#9 o-Xylene

R.T.: 0.000 min
Exp R.T. : 10.934 min
Response: 0
Conc: N.D.



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

R.T.: 14.364 min
Delta R.T.: 0.020 min
Response: 23426587
Conc: 100.66 %



#11 Naphthalene

R.T.: 14.545 min
Delta R.T.: 0.020 min
Response: 335898
Conc: 1.29 ug/L

Mountain States ACCUTEST LABORATORIES

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

Job Number: D32369
Account: XTOKRWR XTO Energy
Project: FRU 197-33A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5468-MB	FH001892.D	1	03/03/12	TR	03/02/12	OP5468	GFH97

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

D32369-1, D32369-2, D32369-3

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	83%	43-136%

Blank Spike Summary

Job Number: D32369
Account: XTOKRWR XTO Energy
Project: FRU 197-33A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5468-BS	FH001894.D	1	03/03/12	TR	03/02/12	OP5468	GFH97

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

D32369-1, D32369-2, D32369-3

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	533	80	58-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	85%	43-136%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D32369
Account: XTOKRWR XTO Energy
Project: FRU 197-33A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5468-MS	FH001934.D	10	03/04/12	TR	03/02/12	OP5468	GFH99
OP5468-MSD	FH001936.D	10	03/04/12	TR	03/02/12	OP5468	GFH99
D32353-1	FH001938.D	10	03/04/12	TR	03/02/12	OP5468	GFH99

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

D32369-1, D32369-2, D32369-3

CAS No.	Compound	D32353-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	10200		851	10900	82	10800	71	1	20-183/43

CAS No.	Surrogate Recoveries	MS	MSD	D32353-1	Limits
84-15-1	o-Terphenyl	76%	83%	89%	43-136%

Mountain States ACCUTEST LABORATORIES

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH030312.SEC\
Data File : FH001902.D
Signal(s) : FID2B.ch
Acq On : 3 Mar 2012 9:09 pm
Operator : tedr
Sample : D32369-1
Misc : OP5468,GFH97,30.04,,,2,1
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 04 19:48:04 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH95R.M
Quant Title : DRO-ORO REAR
QLast Update : Sun Mar 04 19:15:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
2) s	o-Terphenyl	12.352	1195579038	698.205	ug/ml
Target Compounds					
1) H	TPH-DRO (C10-C28)	9.832	2350980199	1523.411	ug/ml

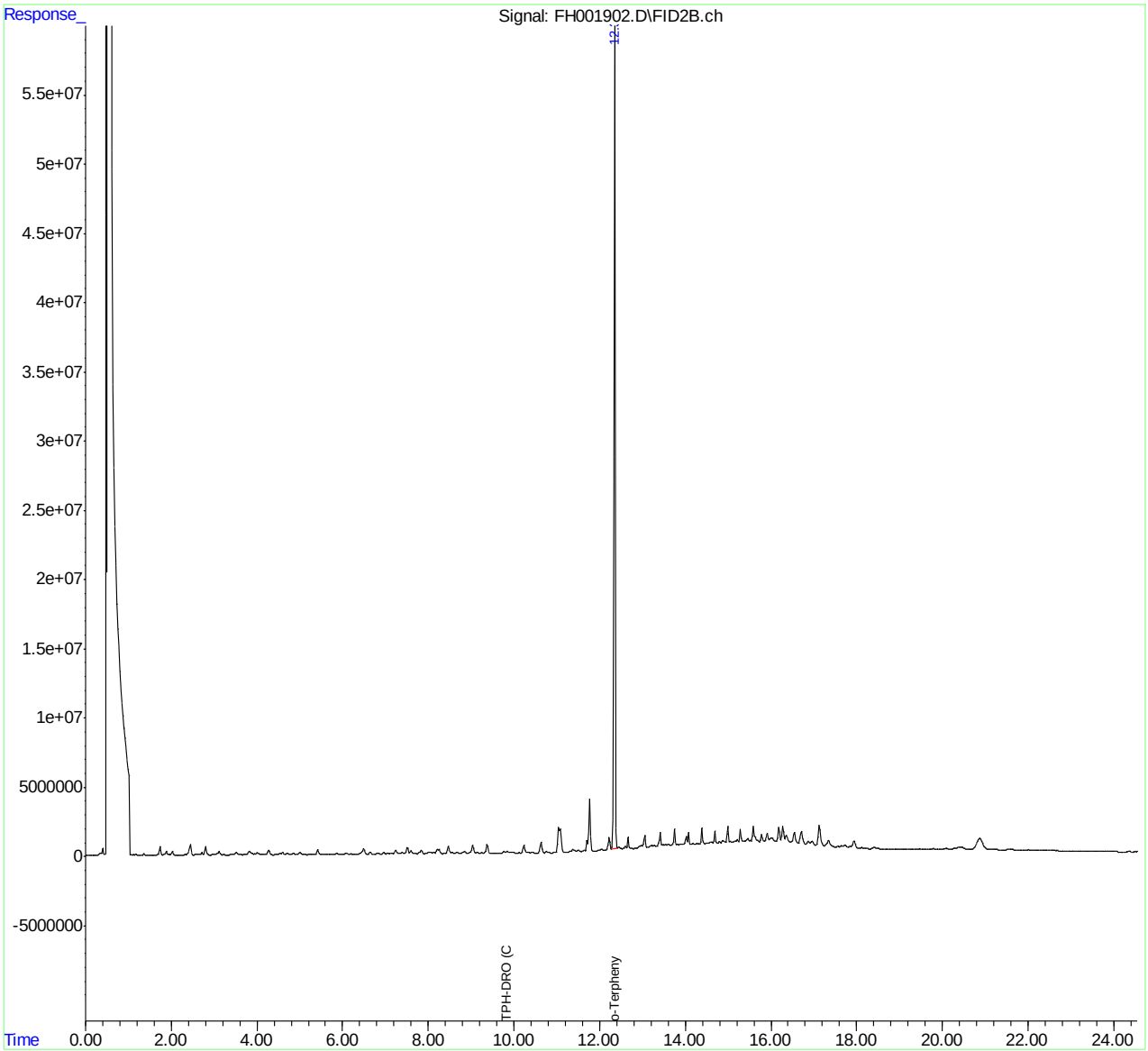
(f)=RT Delta > 1/2 Window (m)=manual int.

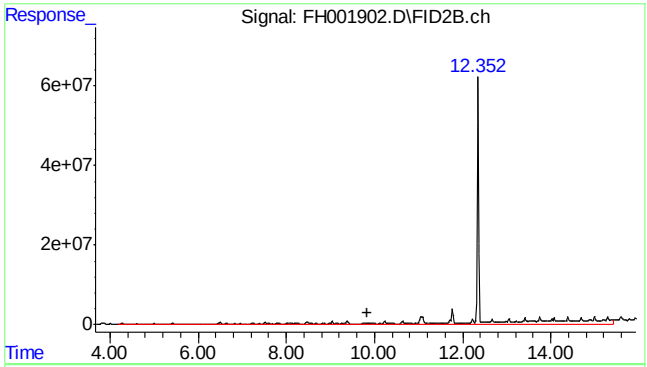
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH030312.SEC\
Data File : FH001902.D
Signal(s) : FID2B.ch
Acq On : 3 Mar 2012 9:09 pm
Operator : tedr
Sample : D32369-1
Misc : OP5468,GFH97,30.04,,,2,1
ALS Vial : 19 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 04 19:48:04 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH95R.M
Quant Title : DRO-ORO REAR
QLast Update : Sun Mar 04 19:15:40 2012
Response via : Initial Calibration
Integrator: ChemStation

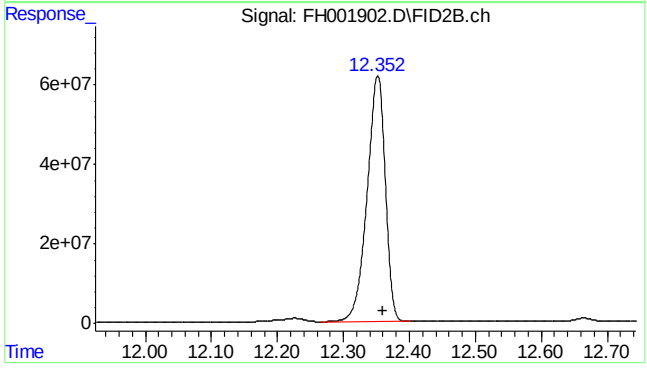
Volume Inj. :
Signal Phase :
Signal Info :





#1 TPH-DRO (C10-C28)

R.T.: 9.832 min
Delta R.T.: 0.000 min
Response: 2350980199
Conc: 1523.41 ug/ml m



#2 o-Terphenyl

R.T.: 12.352 min
Delta R.T.: -0.008 min
Response: 1195579038
Conc: 698.21 ug/ml

8.1.1
8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH030312.SEC\
Data File : FH001906.D
Signal(s) : FID2B.ch
Acq On : 3 Mar 2012 10:20 pm
Operator : tedr
Sample : D32369-2
Misc : OP5468,GFH97,30.00,,,2,1
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 04 19:48:59 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH95R.M
Quant Title : DRO-ORO REAR
QLast Update : Sun Mar 04 19:15:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
2) s	o-Terphenyl	12.352	1207515758	705.176 ug/ml
Target Compounds				
1) H	TPH-DRO (C10-C28)	9.832	3474723211	2251.584 ug/ml

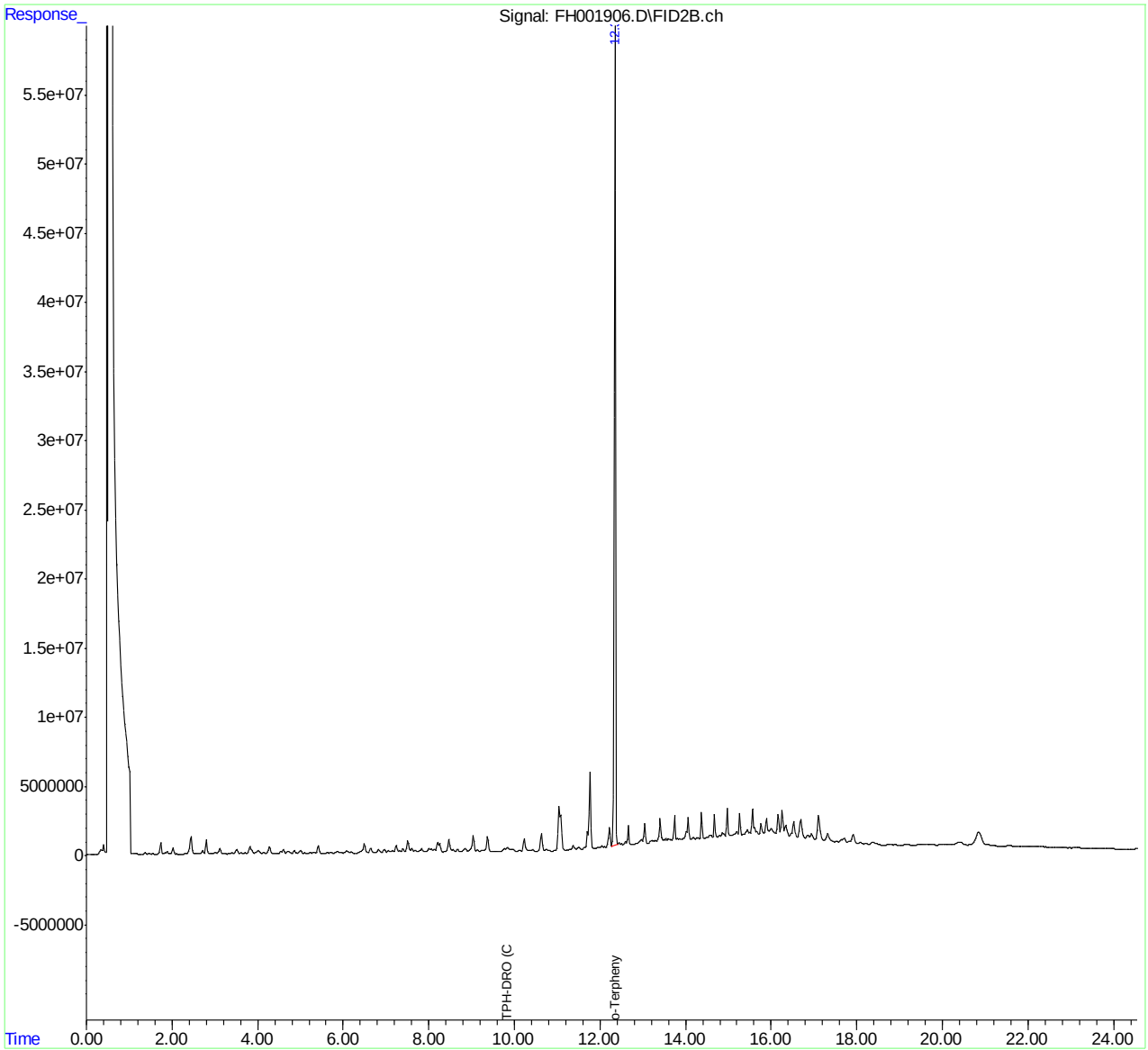
(f)=RT Delta > 1/2 Window (m)=manual int.

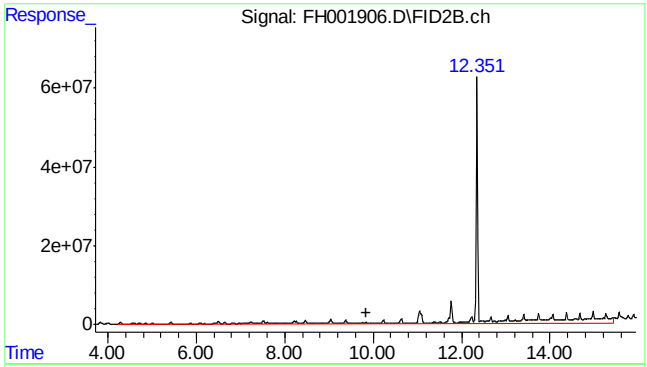
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH030312.SEC\
Data File : FH001906.D
Signal(s) : FID2B.ch
Acq On : 3 Mar 2012 10:20 pm
Operator : tedr
Sample : D32369-2
Misc : OP5468,GFH97,30.00,,,2,1
ALS Vial : 21 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 04 19:48:59 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH95R.M
Quant Title : DRO-ORO REAR
QLast Update : Sun Mar 04 19:15:40 2012
Response via : Initial Calibration
Integrator: ChemStation

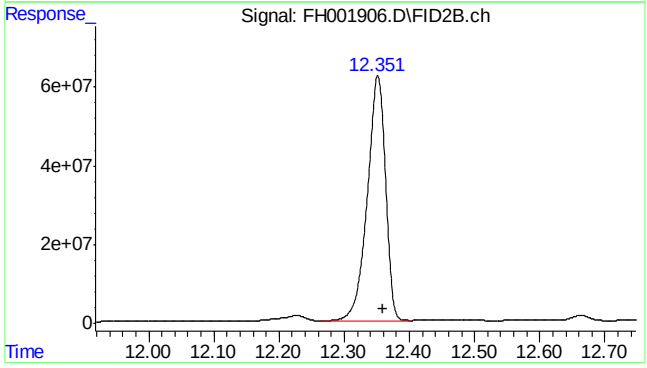
Volume Inj. :
Signal Phase :
Signal Info :





#1 TPH-DRO (C10-C28)

R.T.: 9.832 min
Delta R.T.: 0.000 min
Response: 3474723211
Conc: 2251.58 ug/ml m



#2 o-Terphenyl

R.T.: 12.352 min
Delta R.T.: -0.008 min
Response: 1207515758
Conc: 705.18 ug/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH030312.SEC\
Data File : FH001908.D
Signal(s) : FID2B.ch
Acq On : 3 Mar 2012 10:56 pm
Operator : tedr
Sample : D32369-3
Misc : OP5468,GFH97,30.03,,,2,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 04 19:49:10 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH95R.M
Quant Title : DRO-ORO REAR
QLast Update : Sun Mar 04 19:15:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
2) s	o-Terphenyl	12.350	900226173	525.722	ug/ml
Target Compounds					
1) H	TPH-DRO (C10-C28)	9.832	3386219025	2194.235	ug/ml

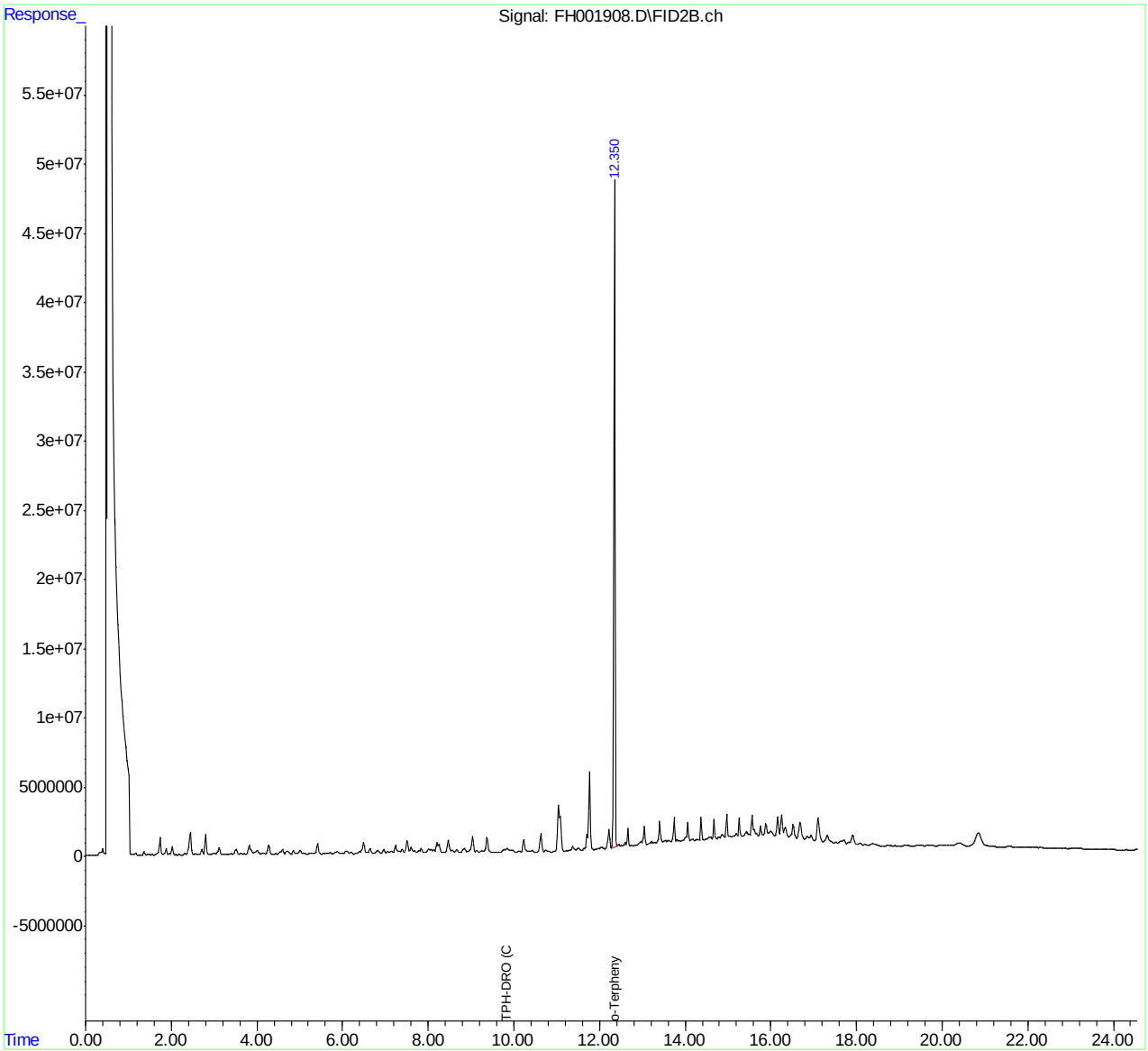
(f)=RT Delta > 1/2 Window (m)=manual int.

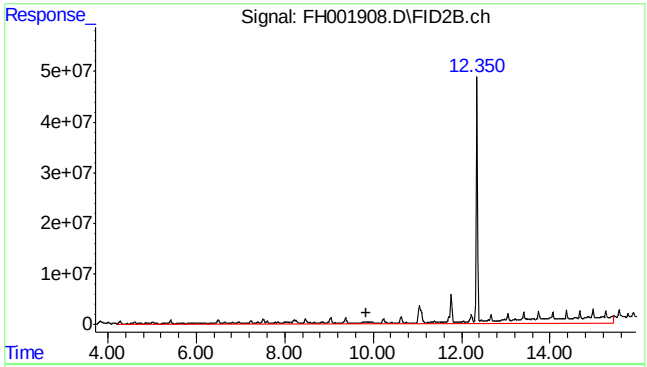
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH030312.SEC\
Data File : FH001908.D
Signal(s) : FID2B.ch
Acq On : 3 Mar 2012 10:56 pm
Operator : tedr
Sample : D32369-3
Misc : OP5468,GFH97,30.03,,,2,1
ALS Vial : 22 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 04 19:49:10 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH95R.M
Quant Title : DRO-ORO REAR
QLast Update : Sun Mar 04 19:15:40 2012
Response via : Initial Calibration
Integrator: ChemStation

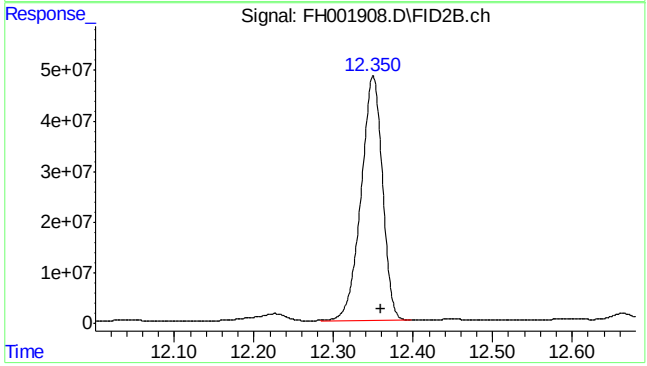
Volume Inj. :
Signal Phase :
Signal Info :





#1 TPH-DRO (C10-C28)

R.T.: 9.832 min
Delta R.T.: 0.000 min
Response: 3386219025
Conc: 2194.23 ug/ml m



#2 o-Terphenyl

R.T.: 12.350 min
Delta R.T.: -0.010 min
Response: 900226173
Conc: 525.72 ug/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH030312.SEC\
Data File : FH001892.D
Signal(s) : FID2B.ch
Acq On : 3 Mar 2012 6:11 pm
Operator : tedr
Sample : OP5468-MB
Misc : OP5468,GFH97,30.00,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 04 19:44:16 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH95R.M
Quant Title : DRO-ORO REAR
QLast Update : Sun Mar 04 19:15:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
2) s	o-Terphenyl	12.356	1413602025	825.528	ug/ml
Target Compounds					
1) H	TPH-DRO (C10-C28)	9.832	49383545	32.000	ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

8.2.1

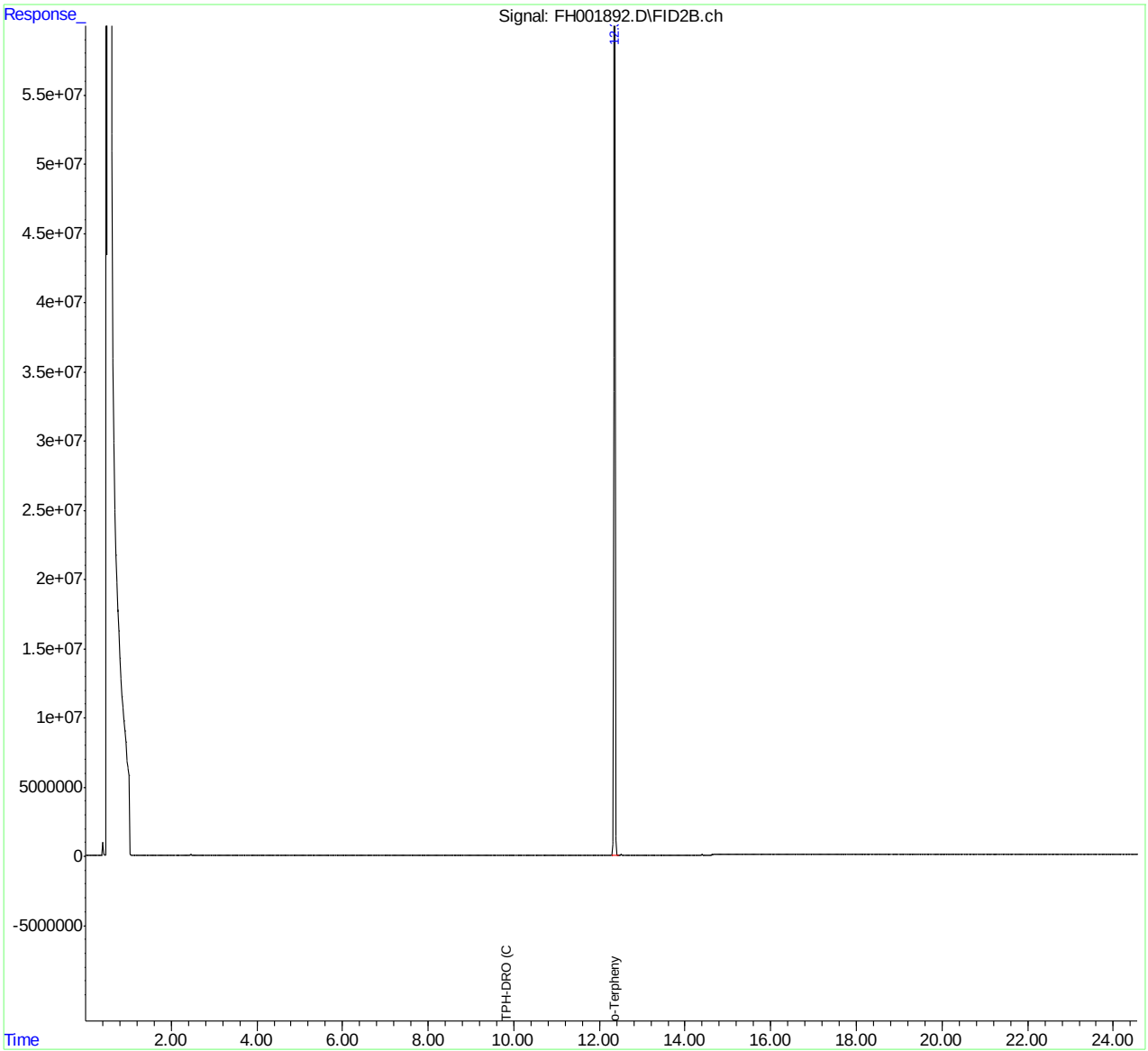
8

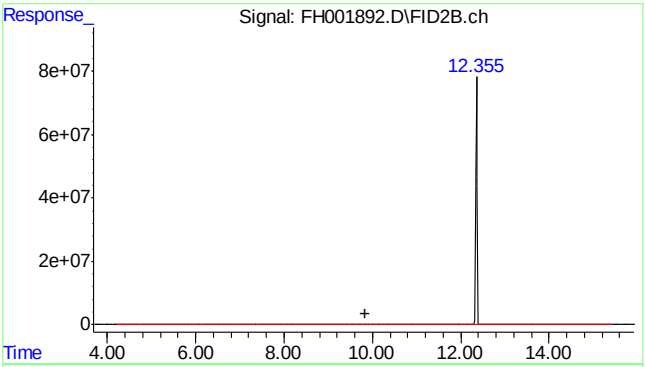
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\FH030312.SEC\
Data File : FH001892.D
Signal(s) : FID2B.ch
Acq On : 3 Mar 2012 6:11 pm
Operator : tedr
Sample : OP5468-MB
Misc : OP5468,GFH97,30.00,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File: events.e
Quant Time: Mar 04 19:44:16 2012
Quant Method : C:\msdchem\1\METHODS\DRO-GFH95R.M
Quant Title : DRO-ORO REAR
QLast Update : Sun Mar 04 19:15:40 2012
Response via : Initial Calibration
Integrator: ChemStation

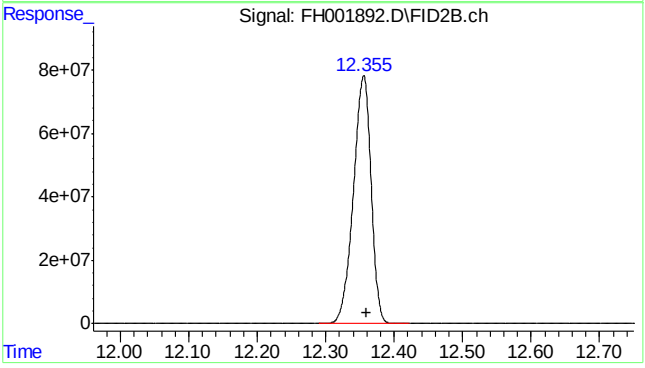
Volume Inj. :
Signal Phase :
Signal Info :





#1 TPH-DRO (C10-C28)

R.T.: 9.832 min
Delta R.T.: 0.000 min
Response: 49383545
Conc: 32.00 ug/ml m



#2 o-Terphenyl

R.T.: 12.356 min
Delta R.T.: -0.004 min
Response: 1413602025
Conc: 825.53 ug/ml