



02/02/12

Technical Report for

XTO Energy

PCU T35X-2G

1108-11A

Accutest Job Number: D31465

Sampling Date: 01/30/12


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: 36



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)

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Test results relate only to samples analyzed.

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Sample Summary

XTO Energy

Job No: D31465

PCU T35X-2G

Project No: 1108-11A

Sample Number	Collected		Matrix Code Type	Received	Client Sample ID
	Date	Time By			
D31465-1	01/30/12	14:30 CB	01/31/12 SO Soil		FW SUBLINER -2 TO -3 FT

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

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: XTO Energy**Job No** D31465**Site:** PCU T35X-2G**Report Date** 2/2/2012 1:07:35 PM

On 01/31/2012, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3.5 °C. The sample was intact and properly preserved, unless noted below. An AMS Job Number of D31465 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 GC By Method SW846 8015B

Matrix SO**Batch ID:** GGB832

- The sample was analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31465-1MS, D31465-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO**Batch ID:** OP5272

- The sample was extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31465-1MS, D31465-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO**Batch ID:** GN13488

- 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:	FW SUBLINER -2 TO -3 FT			Date Sampled:	01/30/12
Lab Sample ID:	D31465-1			Date Received:	01/31/12
Matrix:	SO - Soil			Percent Solids:	86.8
Method:	SW846 8015B				
Project:	PCU T35X-2G				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB14712.D	1	02/01/12	SK	n/a	n/a	GGB832
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)	ND	13	6.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	117%		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:	FW SUBLINER -2 TO -3 FT			Date Sampled:	01/30/12
Lab Sample ID:	D31465-1			Date Received:	01/31/12
Matrix:	SO - Soil			Percent Solids:	86.8
Method:	SW846-8015B SW846 3546				
Project:	PCU T35X-2G				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD13125.D	1	02/01/12	TR	02/01/12	OP5272	GFD687
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)	30.8	15	10	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	76%		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

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

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # D31465

[illegible]

D31465: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D31465

Client: KRW CONSULTING INC.

Immediate Client Services Action Required: No

Date / Time Received: 1/31/2012 12:45:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project: XTO PCU T35X-2G

Airbill #'s: HD/CO

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 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: D31465
Account: XTOKRWR XTO Energy
Project: PCU T35X-2G

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB832-MB	GB14710.D	1	02/01/12	SK	n/a	n/a	GGB832

The QC reported here applies to the following samples:

Method: SW846 8015B

D31465-1

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	121% 60-140%

Blank Spike Summary

Page 1 of 1

Job Number: D31465
Account: XTOKRWR XTO Energy
Project: PCU T35X-2G

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB832-BS	GB14711.D	1	02/01/12	SK	n/a	n/a	GGB832

The QC reported here applies to the following samples:

Method: SW846 8015B

D31465-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	108	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	125%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D31465
Account: XTOKRWR XTO Energy
Project: PCU T35X-2G

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D31465-1MS	GB14713.D	1	02/01/12	SK	n/a	n/a	GGB832
D31465-1MSD	GB14714.D	1	02/01/12	SK	n/a	n/a	GGB832
D31465-1	GB14712.D	1	02/01/12	SK	n/a	n/a	GGB832

The QC reported here applies to the following samples:

Method: SW846 8015B

D31465-1

CAS No.	Compound	D31465-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		142	137	96	135	95	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D31465-1	Limits
120-82-1	1,2,4-Trichlorobenzene	116%	122%	117%	60-140%

GC Volatiles

Raw Data



Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\020112\GB14712.D\FID1A.CH Vial: 7
 Signal #2 : Y:\1\DATA\020112\GB14712.D\FID2B.CH
 Acq On : 1 Feb 2012 5:38 pm Operator: StephK
 Sample : D31465-1, 50X Inst : GC/MS Ins
 Misc : GC2580,GGB832,5.041,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Feb 02 11:09:02 2012 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Wed Feb 01 16:34:55 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

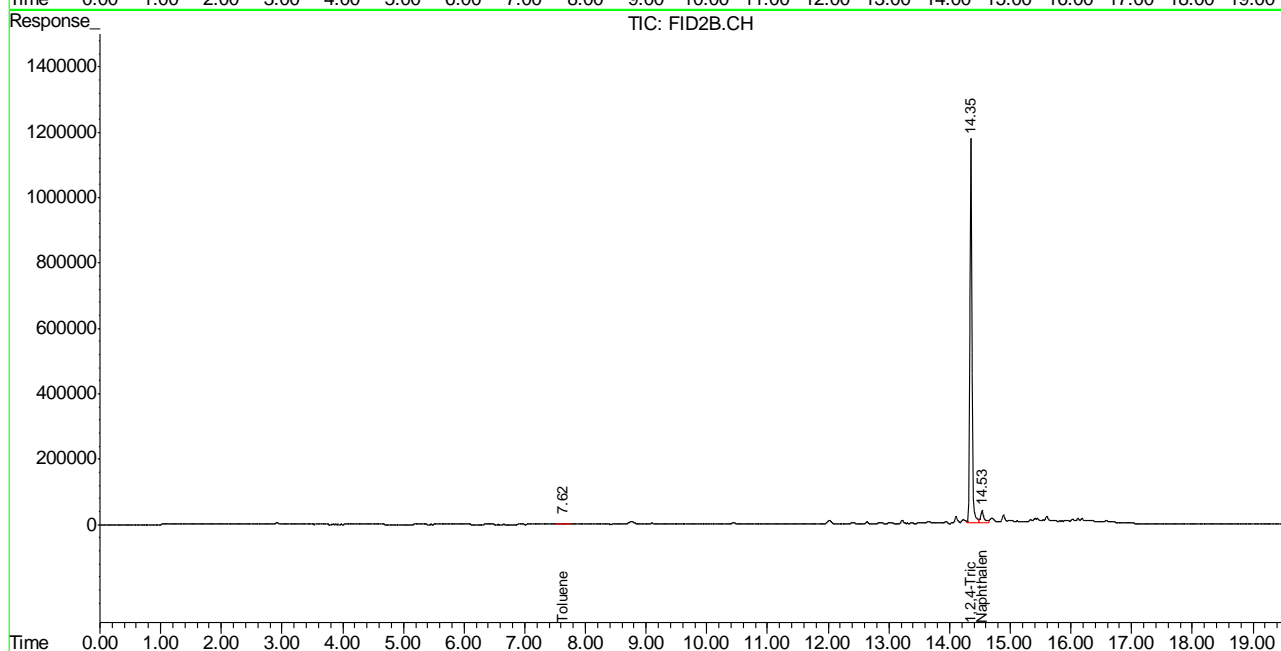
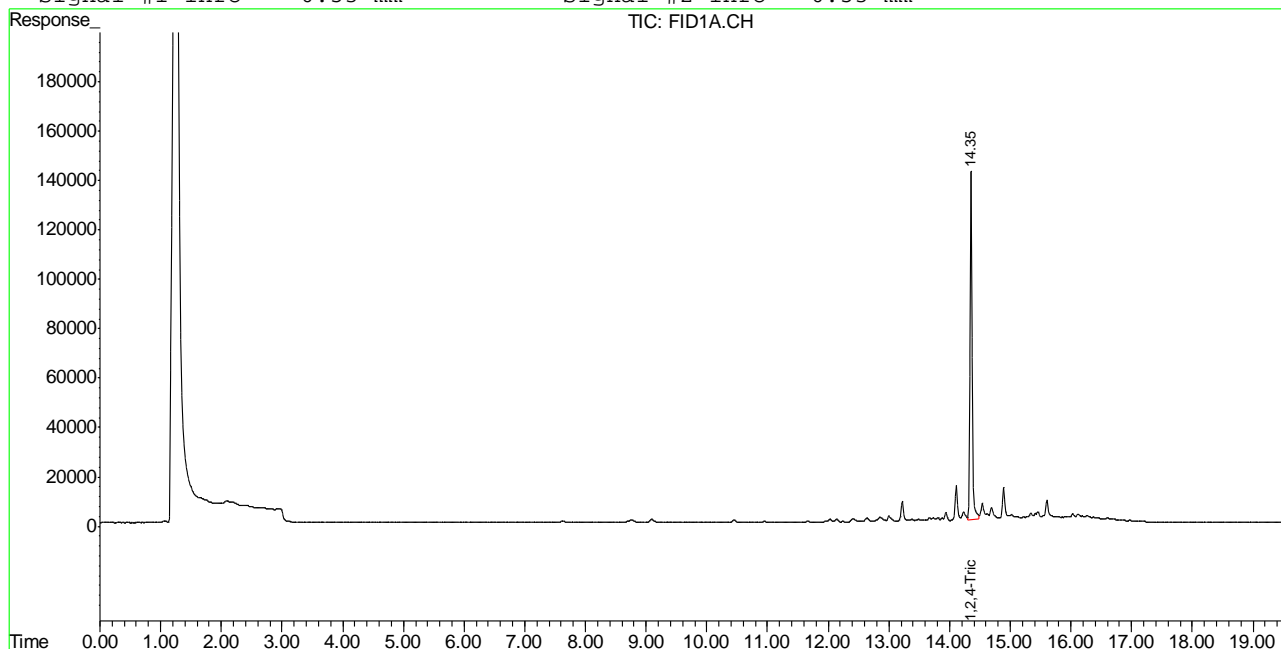
System Monitoring Compounds					
2) S	1,2,4-Trichlorobenzene	14.35	3423604	117.026	%
10) S	1,2,4-Trichlorobenzene (P)	14.35	27867740	121.249	%
Target Compounds					
1) H	TVH-Gasoline	7.32	5518475	<MDL	mg/L
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T	Benzene	0.00	0	N.D.	ug/L d
6) T	Toluene	7.62	147098	0.260	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	14.53	1441824	5.602	ug/L

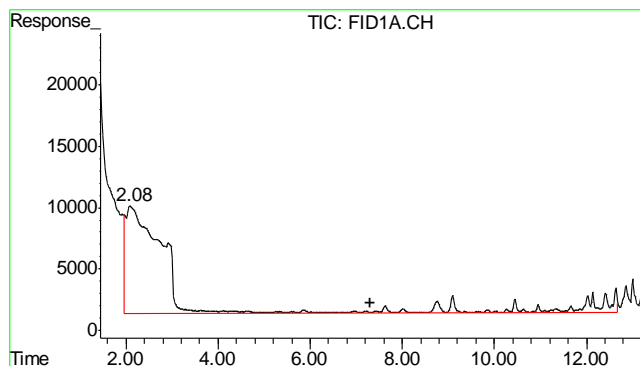
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\020112\GB14712.D\FID1A.CH Vial: 7
Signal #2 : Y:\1\DATA\020112\GB14712.D\FID2B.CH
Acq On : 1 Feb 2012 5:38 pm Operator: StephK
Sample : D31465-1, 50X Inst : GC/MS Ins
Misc : GC2580,GGB832,5.041,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Feb 2 10:10 2012 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Wed Feb 01 16:34:55 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

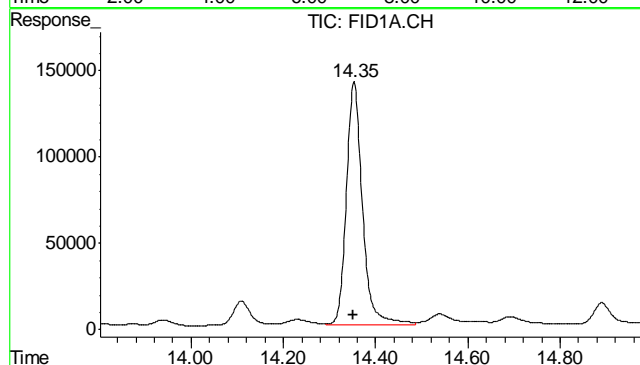
Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





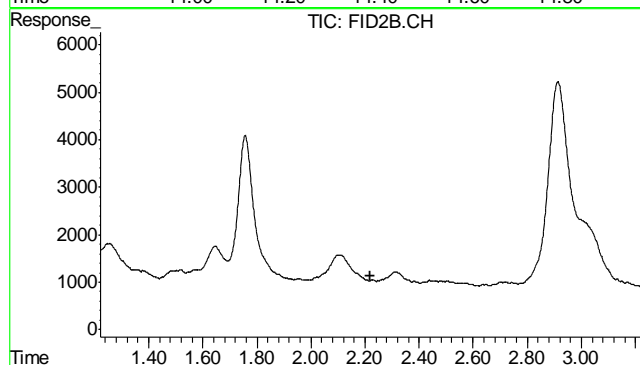
#1 TVH-Gasoline

R.T.: 7.315 min
Delta R.T.: 0.000 min
Response: 5518475
Conc: N.D.



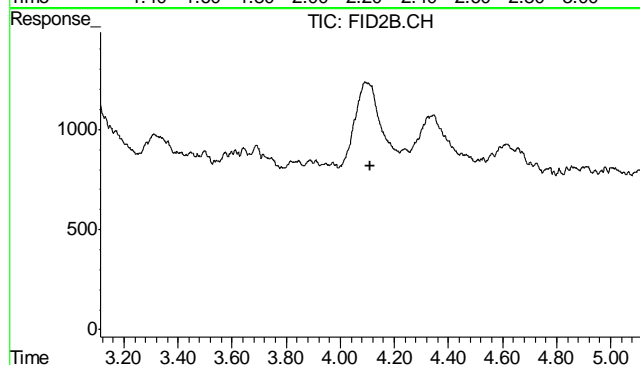
#2 1,2,4-Trichlorobenzene

R.T.: 14.353 min
Delta R.T.: 0.002 min
Response: 3423604
Conc: 117.03 %



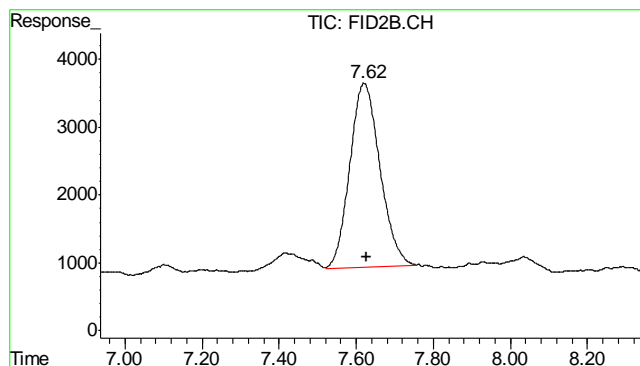
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.220 min
Response: 0
Conc: N.D.



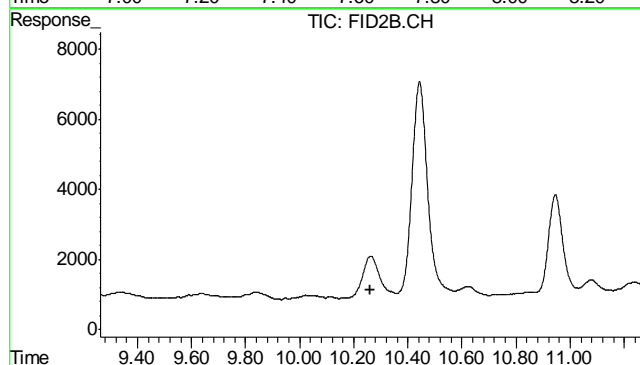
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.112 min
Response: 0
Conc: N.D.



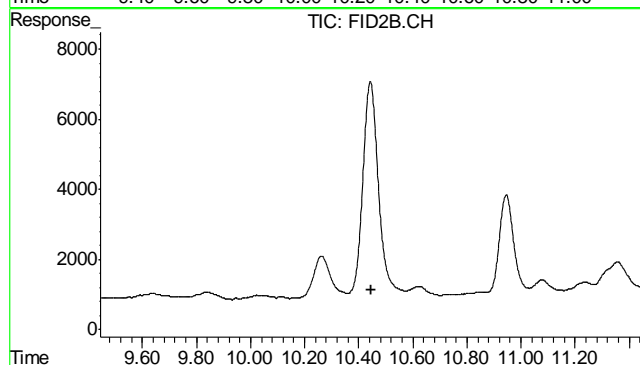
#6 Toluene

R.T.: 7.620 min
Delta R.T.: -0.007 min
Response: 147098
Conc: 0.26 ug/L



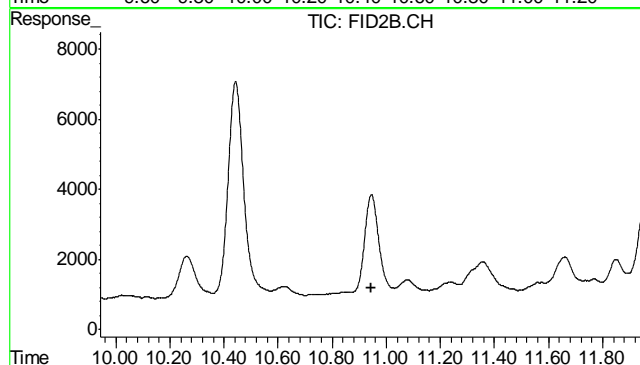
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T.: 10.262 min
Response: 0
Conc: N.D.



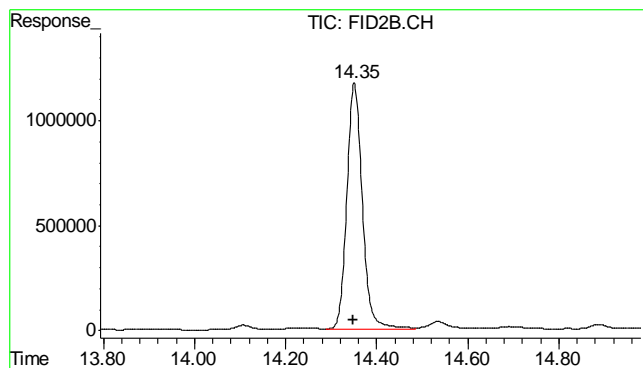
#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T.: 10.444 min
Response: 0
Conc: N.D.



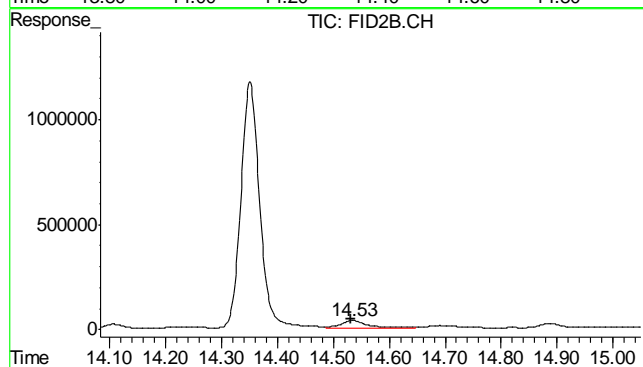
#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.943 min
Response: 0
Conc: N.D.



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

R.T.: 14.351 min
Delta R.T.: 0.002 min
Response: 27867740
Conc: 121.25 %



#11 Naphthalene

R.T.: 14.534 min
Delta R.T.: 0.003 min
Response: 1441824
Conc: 5.60 ug/L

6.1.1

6

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\020112\GB14710.D\FID1A.CH Vial: 5
 Signal #2 : Y:\1\DATA\020112\GB14710.D\FID2B.CH
 Acq On : 1 Feb 2012 4:26 pm Operator: StephK
 Sample : MB, S Inst : GC/MS Ins
 Misc : GC2580,GGB832,5.000,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Feb 02 11:08:55 2012 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Wed Feb 01 16:34:55 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	3552038	121.416	%
10) S	1,2,4-Trichlorobenzene (P)	14.35	28736768	125.030	%
Target Compounds					
1) H	TVH-Gasoline	7.32	5339412	<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	7.61	154371	0.272	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	14.53	341614	1.327	ug/L

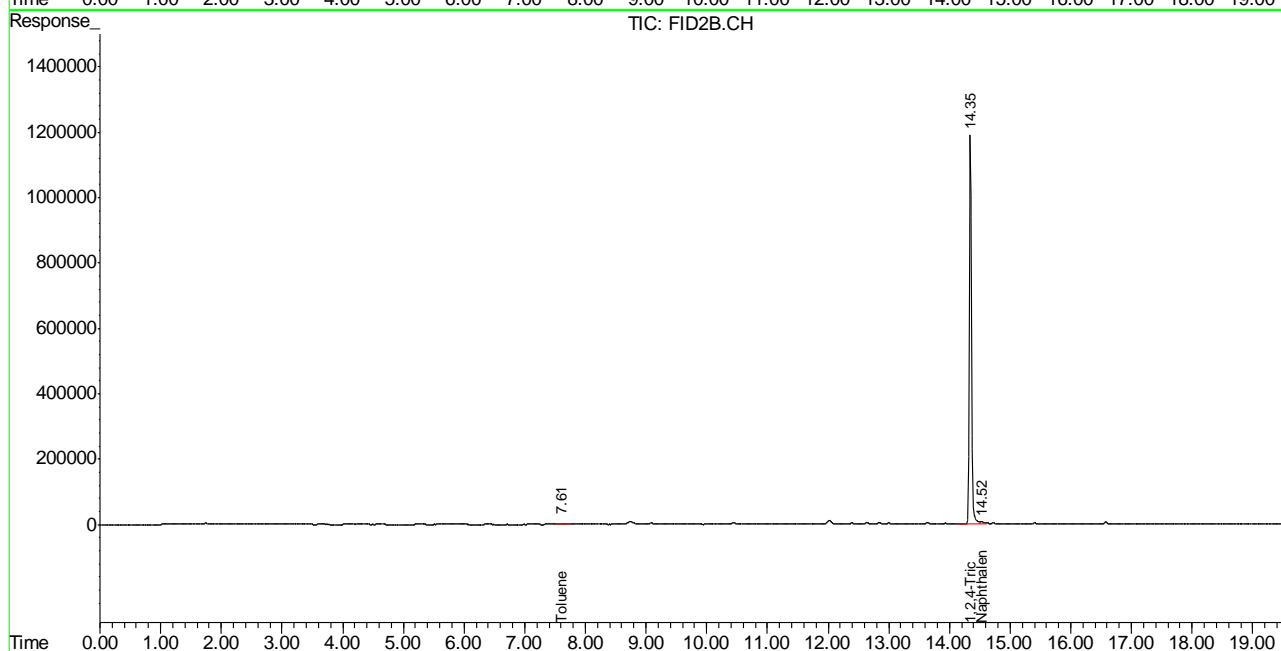
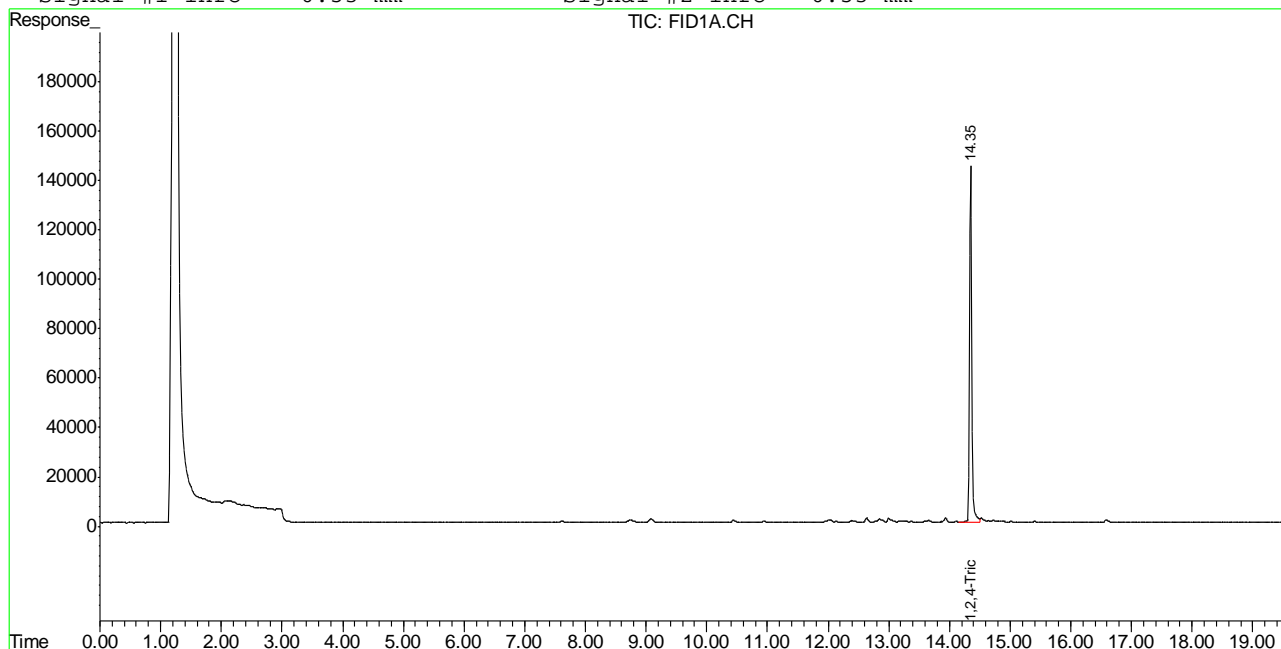
 (f)=RT Delta > 1/2 Window (m)=manual int.
 GB14710.D TB791GB791SOIL.M Thu Feb 02 11:14:34 2012 GC

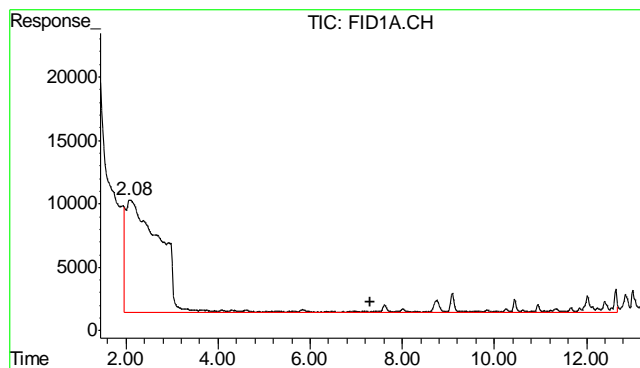
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\020112\GB14710.D\FID1A.CH Vial: 5
Signal #2 : Y:\1\DATA\020112\GB14710.D\FID2B.CH
Acq On : 1 Feb 2012 4:26 pm Operator: StephK
Sample : MB, S Inst : GC/MS Ins
Misc : GC2580,GGB832,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Feb 2 10:10 2012 Quant Results File: TB791GB791SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB791GB791SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Wed Feb 01 16:34:55 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

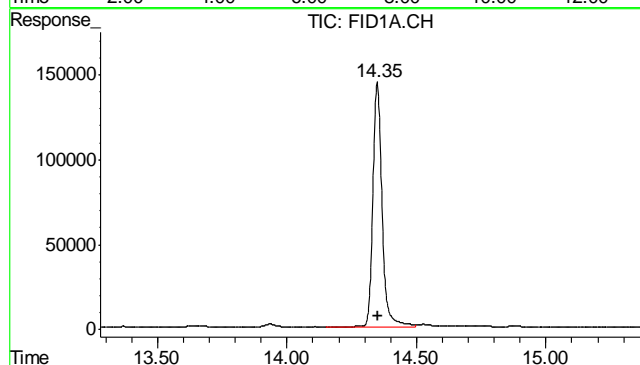
Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





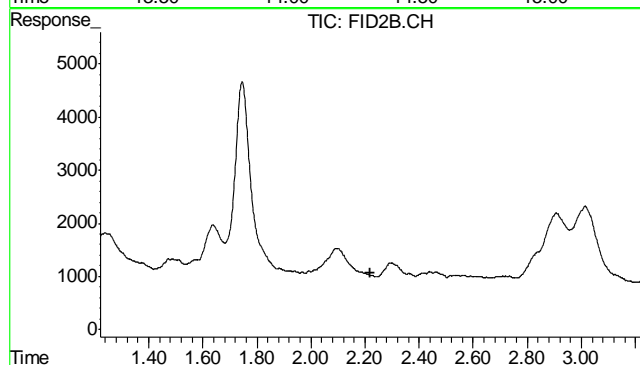
#1 TVH-Gasoline

R.T.: 7.315 min
Delta R.T.: 0.000 min
Response: 5339412
Conc: N.D.



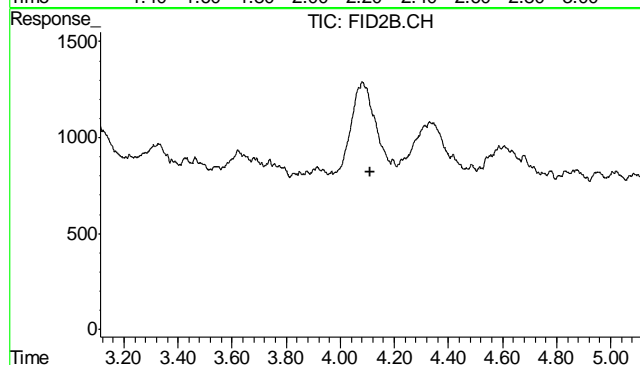
#2 1,2,4-Trichlorobenzene

R.T.: 14.349 min
Delta R.T.: -0.003 min
Response: 3552038
Conc: 121.42 %



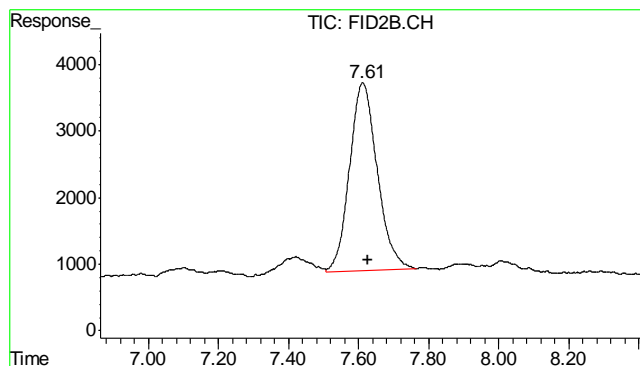
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.220 min
Response: 0
Conc: N.D.



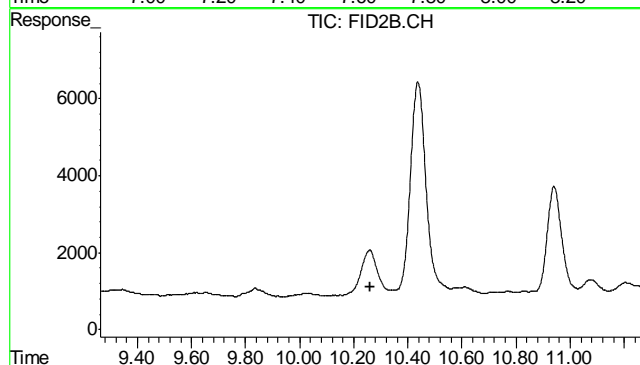
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.112 min
Response: 0
Conc: N.D.



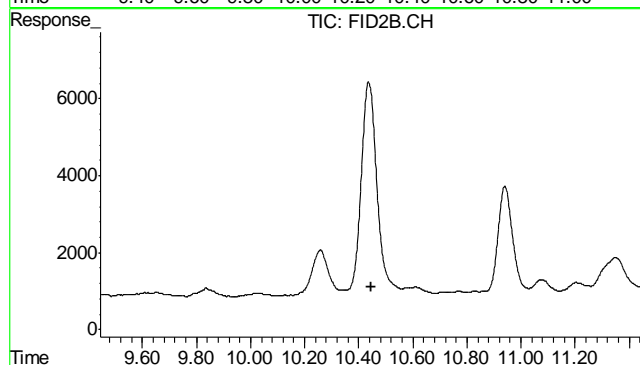
#6 Toluene

R.T.: 7.611 min
Delta R.T.: -0.016 min
Response: 154371
Conc: 0.27 ug/L



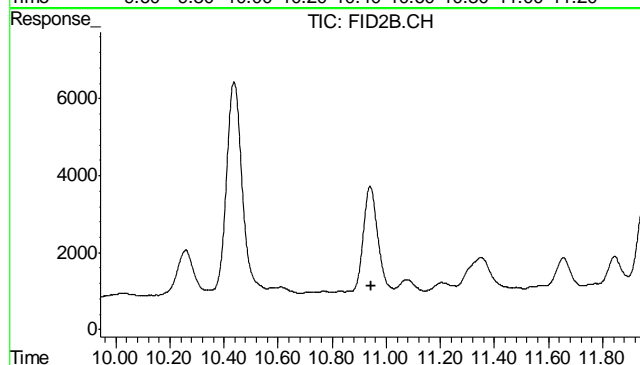
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T. : 10.262 min
Response: 0
Conc: N.D.



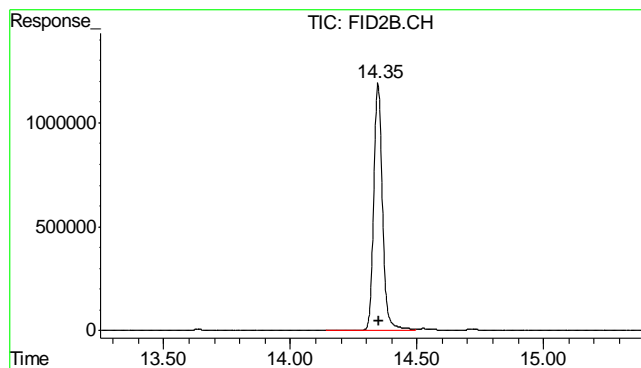
#8 m,p-Xylene

R.T.: 0.000 min
Exp R.T. : 10.444 min
Response: 0
Conc: N.D.



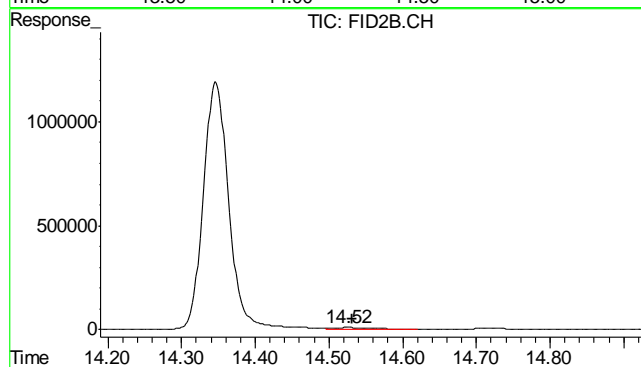
#9 o-Xylene

R.T.: 0.000 min
Exp R.T. : 10.943 min
Response: 0
Conc: N.D.



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

R.T.: 14.347 min
Delta R.T.: -0.003 min
Response: 28736768
Conc: 125.03 %



#11 Naphthalene

R.T.: 14.525 min
Delta R.T.: -0.006 min
Response: 341614
Conc: 1.33 ug/L

6.2.1

6

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: D31465
Account: XTOKRWR XTO Energy
Project: PCU T35X-2G

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5272-MB	FD13121.D	1	02/01/12	TR	02/01/12	OP5272	GFD687

The QC reported here applies to the following samples:

Method: SW846-8015B

D31465-1

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	88% 43-136%

Blank Spike Summary

Page 1 of 1

Job Number: D31465
Account: XTOKRWR XTO Energy
Project: PCU T35X-2G

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5272-BS	FD13122.D	1	02/01/12	TR	02/01/12	OP5272	GFD687

The QC reported here applies to the following samples:

Method: SW846-8015B

D31465-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	488	73	58-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	87%	43-136%

7.2.1

7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D31465
Account: XTOKRWR XTO Energy
Project: PCU T35X-2G

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5272-MS	FD13123.D	1	02/01/12	TR	02/01/12	OP5272	GFD687
OP5272-MSD	FD13124.D	1	02/01/12	TR	02/01/12	OP5272	GFD687
D31465-1	FD13125.D	1	02/01/12	TR	02/01/12	OP5272	GFD687

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

D31465-1

CAS No.	Compound	D31465-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	30.8		768	519	64	486	59	7	20-183/43

CAS No.	Surrogate Recoveries	MS	MSD	D31465-1	Limits
84-15-1	o-Terphenyl	69%	67%	76%	43-136%

GC Semi-volatiles

Raw Data

∞

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JAN\FD020112\FD13125.D Vial: 7
Acq On : 2-1-2012 03:41:46 PM Operator: TEDR
Sample : D31465-1 Inst : FID5
Misc : OP5272,GFD687,30.04,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Feb 02 09:04:33 2012 Quant Results File: GFD624.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD624.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Fri Dec 09 12:22:03 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	9.56	34128170	764.300 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	7.42	16765743	401.002 mg/L

8.1.1

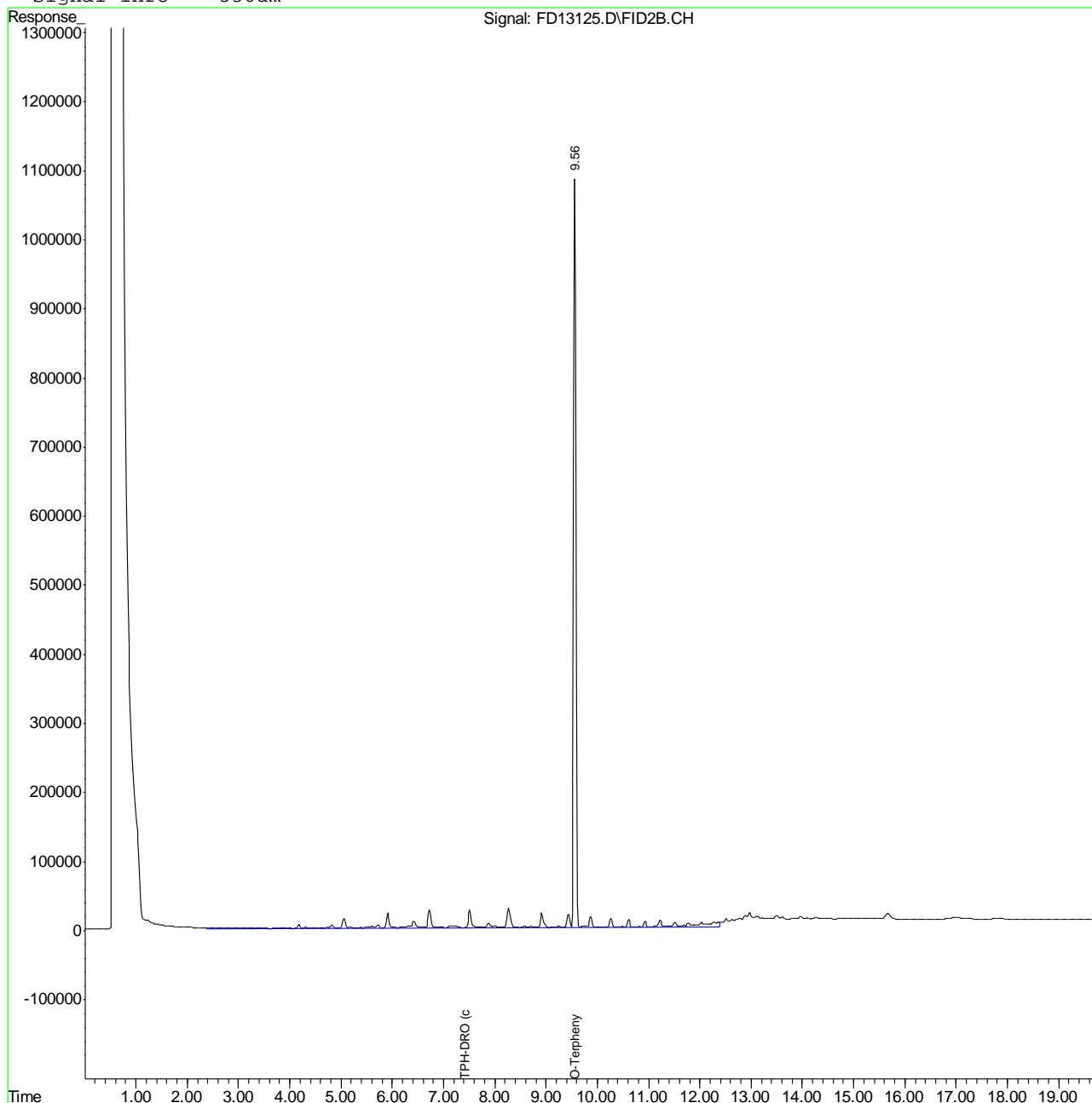
8

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JAN\FD020112\FD13125.D Vial: 7
 Acq On : 2-1-2012 03:41:46 PM Operator: TEDR
 Sample : D31465-1 Inst : FID5
 Misc : OP5272,GFD687,30.04,,,2,1 Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: Feb 2 9:05 2012 Quant Results File: GFD624.RES

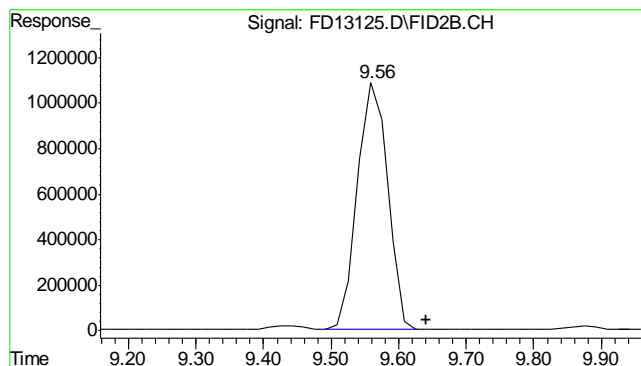
Quant Method : C:\MSDCHEM\2\METHODS\GFD624.M (Chemstation Integrator)
 Title : 8015B TEH
 Last Update : Fri Dec 09 12:22:03 2011
 Response via : Multiple Level Calibration
 DataAcq Meth : JH080911.M

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

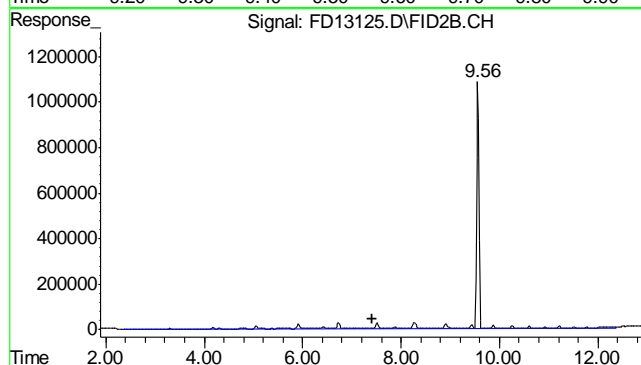


8.1.1

8



#1 O-Terphenyl
 R.T.: 9.561 min
 Delta R.T.: -0.079 min
 Response: 34128170
 Conc: 764.30 mg/L m



#2 TPH-DRO (c10-c28)
 R.T.: 7.420 min
 Delta R.T.: 0.000 min
 Response: 16765743
 Conc: 401.00 mg/L m

8.1.1

8

Judy Melson
02/02/12 10:22

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JAN\FD020112\FD13121.D Vial: 3
Acq On : 2-1-2012 01:59:07 PM Operator: TEDR
Sample : OP5272-MB Inst : FID5
Misc : OP5272,GFD687,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Feb 01 17:09:54 2012 Quant Results File: GFD624.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD624.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Fri Dec 09 12:22:03 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	9.56	39364856	881.576 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	7.42	4289804	102.603 mg/L

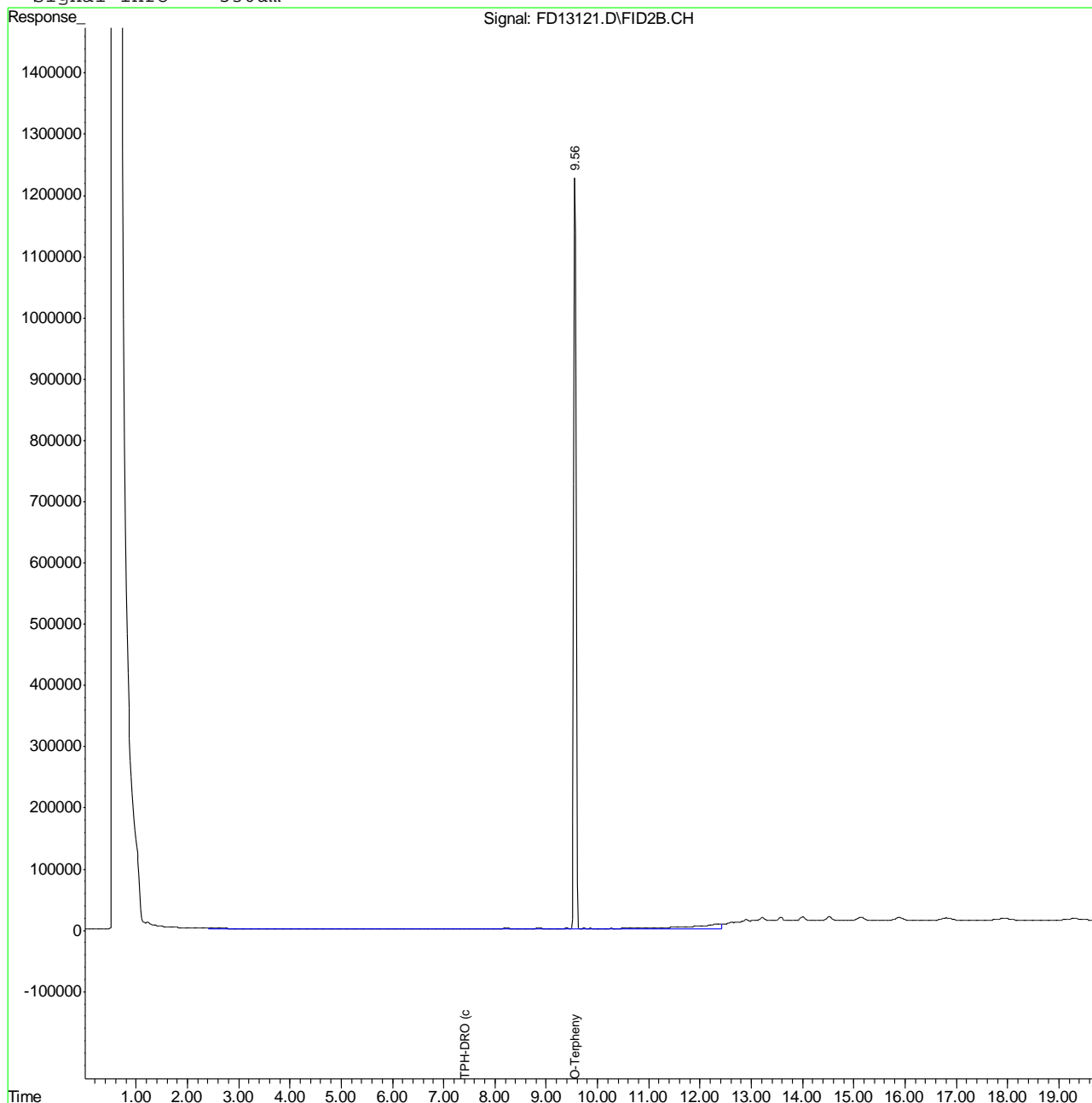
(f)=RT Delta > 1/2 Window (m)=manual int.
FD13121.D GFD624.M Thu Feb 02 09:08:54 2012 GC

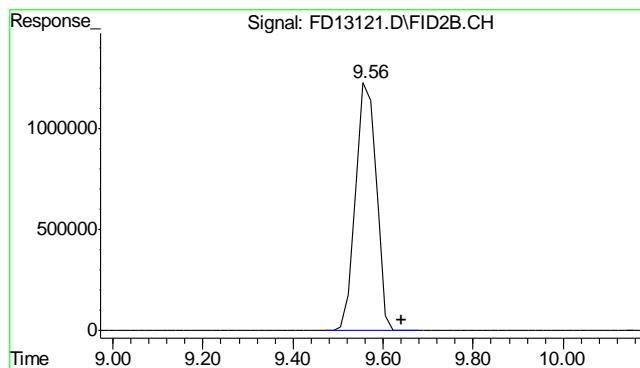
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JAN\FD020112\FD13121.D Vial: 3
Acq On : 2-1-2012 01:59:07 PM Operator: TEDR
Sample : OP5272-MB Inst : FID5
Misc : OP5272,GFD687,30.00,,,2,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Feb 1 17:10 2012 Quant Results File: GFD624.RES

Quant Method : C:\MSDCHEM\2\METHODS\GFD624.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Fri Dec 09 12:22:03 2011
Response via : Multiple Level Calibration
DataAcq Meth : JH080911.M

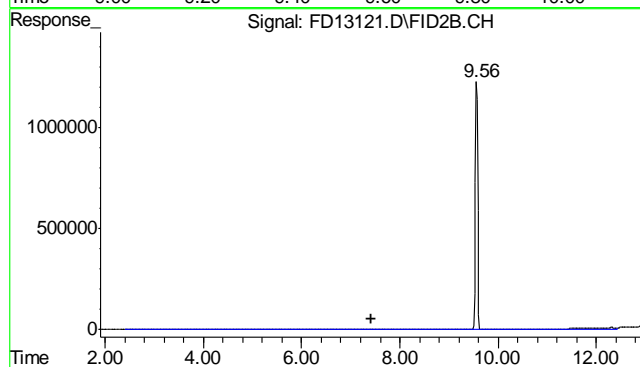
Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





#1 O-Terphenyl

R.T.: 9.562 min
Delta R.T.: -0.078 min
Response: 39364856
Conc: 881.58 mg/L m



#2 TPH-DRO (c10-c28)

R.T.: 7.420 min
Delta R.T.: 0.000 min
Response: 4289804
Conc: 102.60 mg/L m

8.2.1
8