

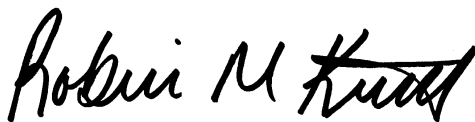
ANALYTICAL REPORT

Job Number: 510-66868-1

Job Description: South Bend Former Studebaker Foundry

For:

Weaver Boos Consultants LLC
4085 Meghan Beeler Court
South Bend, IN 46628
Attention: Jodi Slough



Approved for release.
Robin M Kintz
Project Manager I
7/8/2011 4:14 PM

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07/08/2011

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Valparaiso Certifications and IDs: New Hampshire (283711), Illinois (200065), Indiana DW (C-64-01), Indiana DW Micro (M-64-4), Washington (C842), Kentucky UST (57) and Foreign Soil Permit (P330-11-00073).

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Job Narrative
510-66868-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 82538 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

SAMPLE SUMMARY

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
510-66868-1	SB0058:TK2FSS:165170	Solid	06/23/2011 0930	06/23/2011 1320

EXECUTIVE SUMMARY - Detections

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
510-66868-1	SB0058:TK2FSS:165170				
C5-C12		0.22	0.019	mg/Kg	8015B
Percent Moisture		4.4	0.10	%	Moisture
Percent Solids		96	0.10	%	Moisture

METHOD SUMMARY

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Indiana ERO	TAL VAL	SW846 8015B	
Automated Soxhlet Extraction	TAL VAL		SW846 3541
Percent Moisture	TAL VAL	EPA Moisture	
Gasoline Range Organics - (GC)	TAL CHI	SW846 8015B	
Closed System Purge and Trap	TAL CHI		SW846 5035

Lab References:

TAL CHI = TestAmerica Chicago

TAL VAL = TestAmerica Valparaiso

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Method	Analyst	Analyst ID
SW846 8015B	Manzano, Louis	LM
SW846 8015B	Ivers, Catherine L	CLI
EPA Moisture	Allen, Tiffany L	TLA

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Client Sample ID: SB0058:TK2FSS:165170

Lab Sample ID: 510-66868-1

Date Sampled: 06/23/2011 0930

Client Matrix: Solid

% Moisture: 4.4

Date Received: 06/23/2011 1320

8015B Gasoline Range Organics - (GC)

Analysis Method: 8015B	Analysis Batch: 500-117736	Instrument ID: INST13-14
Prep Method: 5035	Prep Batch: 500-117679	Initial Weight/Volume: 5.5479 g
Dilution: 1.0		Final Weight/Volume: 5 mL
Analysis Date: 06/25/2011 2322		Injection Volume:
Prep Date: 06/23/2011 0930		Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
C5-C12		0.22		0.019

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	67		51 - 117
a,a,a-Trifluorotoluene	71		64 - 116

Analytical Data

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Client Sample ID: SB0058:TK2FSS:165170

Lab Sample ID: 510-66868-1

Date Sampled: 06/23/2011 0930

Client Matrix: Solid

% Moisture: 4.4

Date Received: 06/23/2011 1320

8015B Indiana ERO

Analysis Method: 8015B

Analysis Batch: 510-82538

Instrument ID: SGCC

Prep Method: 3541

Prep Batch: 510-82524

Initial Weight/Volume: 30.51 g

Dilution: 1.0

Final Weight/Volume: 1 mL

Analysis Date: 06/24/2011 1357

Injection Volume: 1 uL

Prep Date: 06/24/2011 0750

Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
C8-C36		<21		21
Surrogate		%Rec	Qualifier	Acceptance Limits
Decafluorobiphenyl		46		10 - 122

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

General Chemistry

Client Sample ID: SB0058:TK2FSS:165170

Lab Sample ID: 510-66868-1
Client Matrix: Solid

Date Sampled: 06/23/2011 0930
Date Received: 06/23/2011 1320

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	4.4		%	0.10	1.0	Moisture
	Analysis Batch: 510-82575	Analysis Date: 06/24/2011 1733				DryWt Corrected: N
Percent Solids	96		%	0.10	1.0	Moisture
	Analysis Batch: 510-82575	Analysis Date: 06/24/2011 1733				DryWt Corrected: N

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Surrogate Recovery Report

8015B Indiana ERO

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DBP1 %Rec
510-66868-1	SB0058:TK2FSS:165 170	46
MB 510-82524/1-A		63
LCS 510-82524/2-A		73
510-66868-1 MS	SB0058:TK2FSS:165 170 MS	58
510-66868-1 MSD	SB0058:TK2FSS:165 170 MSD	51

Surrogate	Acceptance Limits
DBP = Decafluorobiphenyl	10-122

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Surrogate Recovery Report

8015B Gasoline Range Organics - (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TFT1 %Rec	BFB1 %Rec
510-66868-1	SB0058:TK2FSS:165 170	71	67
MB 500-117736/3		105	100
LCS 500-117736/4		105	103
LCSD 500-117736/6		103	101

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene	64-116
BFB = 4-Bromofluorobenzene	51-117

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Method Blank - Batch: 500-117736

Method: 8015B
Preparation: N/A

Lab Sample ID: MB 500-117736/3	Analysis Batch: 500-117736	Instrument ID: INST13-14
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: 06251114_003.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 g
Analysis Date: 06/25/2011 2212	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		Injection Volume:
Leach Date: N/A		Column ID: PRIMARY

Analyte	Result	Qual	RL
C5-C12	<0.020		0.020

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	100	51 - 117
a,a,a-Trifluorotoluene	105	64 - 116

Lab Control Sample/

Method: 8015B
Preparation: N/A

Lab Control Sample Duplicate Recovery Report - Batch: 500-117736

LCS Lab Sample ID: LCS 500-117736/4	Analysis Batch: 500-117736	Instrument ID: INST13-14
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: 06251114_004.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 g
Analysis Date: 06/25/2011 2247	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		Injection Volume:
Leach Date: N/A		Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 500-117736/6	Analysis Batch: 500-117736	Instrument ID: INST13-14
Client Matrix: Solid	Prep Batch: N/A	Lab File ID: 06251114_006.d
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 g
Analysis Date: 06/25/2011 2358	Units: mg/Kg	Final Weight/Volume: 5 mL
Prep Date: N/A		Injection Volume:
Leach Date: N/A		Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
C5-C12	102	101	70 - 130	1	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
4-Bromofluorobenzene	103		101		51 - 117		
a,a,a-Trifluorotoluene	105		103		64 - 116		

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 500-117736**

**Method: 8015B
Preparation: N/A**

LCS Lab Sample ID: LCS 500-117736/4 Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 06/25/2011 2247
Prep Date: N/A
Leach Date: N/A

LCSD Lab Sample ID: LCSD 500-117736/6
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 06/25/2011 2358
Prep Date: N/A
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
C5-C12	0.400	0.400	0.409	0.404

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Method Blank - Batch: 510-82524

Lab Sample ID: MB 510-82524/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 06/24/2011 1252
 Prep Date: 06/24/2011 0750
 Leach Date: N/A

Analysis Batch: 510-82538
 Prep Batch: 510-82524
 Leach Batch: N/A
 Units: mg/Kg

**Method: 8015B
 Preparation: 3541**

Instrument ID: SGCC
 Lab File ID: G5048.D
 Initial Weight/Volume: 30 g
 Final Weight/Volume: 1 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	Result	Qual	RL
C8-C36	<20		20

Surrogate	% Rec	Acceptance Limits
Decafluorobiphenyl	63	10 - 122

Lab Control Sample - Batch: 510-82524

Lab Sample ID: LCS 510-82524/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 06/24/2011 1325
 Prep Date: 06/24/2011 0750
 Leach Date: N/A

Analysis Batch: 510-82538
 Prep Batch: 510-82524
 Leach Batch: N/A
 Units: mg/Kg

**Method: 8015B
 Preparation: 3541**

Instrument ID: SGCC
 Lab File ID: G5049.D
 Initial Weight/Volume: 30 g
 Final Weight/Volume: 1 mL
 Injection Volume: 1 uL
 Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C8-C36	16.6	<20	69	30 - 146	

Surrogate	% Rec	Acceptance Limits
Decafluorobiphenyl	73	10 - 122

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 510-82524**

**Method: 8015B
Preparation: 3541**

MS Lab Sample ID: 510-66868-1
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 06/24/2011 1429
Prep Date: 06/24/2011 0750
Leach Date: N/A

Analysis Batch: 510-82538
Prep Batch: 510-82524
Leach Batch: N/A

Instrument ID: SGCC
Lab File ID: G5051.D
Initial Weight/Volume: 30.88 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

MSD Lab Sample ID: 510-66868-1
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 06/24/2011 1502
Prep Date: 06/24/2011 0750
Leach Date: N/A

Analysis Batch: 510-82538
Prep Batch: 510-82524
Leach Batch: N/A

Instrument ID: SGCC
Lab File ID: G5052.D
Initial Weight/Volume: 30.94 g
Final Weight/Volume: 1 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
C8-C36	52	44	58 - 117	9	30	F	F
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Decafluorobiphenyl	58		51	10 - 122			

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 510-82524**

**Method: 8015B
Preparation: 3541**

MS Lab Sample ID: 510-66868-1
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 06/24/2011 1429
Prep Date: 06/24/2011 0750
Leach Date: N/A

Units: mg/Kg

MSD Lab Sample ID: 510-66868-1
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 06/24/2011 1502
Prep Date: 06/24/2011 0750
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
C8-C36	<21	16.9	16.8	<20 F	<20 F

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Method Blank - Batch: 510-82575

**Method: Moisture
Preparation: N/A**

Lab Sample ID: MB 510-82575/1
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 06/24/2011 1733
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 510-82575
Prep Batch: N/A
Leach Batch: N/A
Units: %

Instrument ID: No Equipment
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Result	Qual	RL
Percent Moisture	100		0.10
Percent Solids	0.021		0.10

DATA REPORTING QUALIFIERS

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Lab Section	Qualifier	Description
GC Semi VOA	F	MS or MSD exceeds the control limits

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 500-117679					
510-66868-1	SB0058:TK2FSS:165170	T	Solid	5035	
Analysis Batch:500-117736					
LCS 500-117736/4	Lab Control Sample	T	Solid	8015B	
LCSD 500-117736/6	Lab Control Sample Duplicate	T	Solid	8015B	
MB 500-117736/3	Method Blank	T	Solid	8015B	
510-66868-1	SB0058:TK2FSS:165170	T	Solid	8015B	500-117679

Report Basis

T = Total

GC Semi VOA

Prep Batch: 510-82524					
LCS 510-82524/2-A	Lab Control Sample	T	Solid	3541	
MB 510-82524/1-A	Method Blank	T	Solid	3541	
510-66868-1	SB0058:TK2FSS:165170	T	Solid	3541	
510-66868-1MS	Matrix Spike	T	Solid	3541	
510-66868-1MSD	Matrix Spike Duplicate	T	Solid	3541	
Analysis Batch:510-82538					
LCS 510-82524/2-A	Lab Control Sample	T	Solid	8015B	510-82524
MB 510-82524/1-A	Method Blank	T	Solid	8015B	510-82524
510-66868-1	SB0058:TK2FSS:165170	T	Solid	8015B	510-82524
510-66868-1MS	Matrix Spike	T	Solid	8015B	510-82524
510-66868-1MSD	Matrix Spike Duplicate	T	Solid	8015B	510-82524

Report Basis

T = Total

General Chemistry

Analysis Batch:510-82575					
MB 510-82575/1	Method Blank	T	Solid	Moisture	
510-66868-1	SB0058:TK2FSS:165170	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Laboratory Chronicle

Lab ID: 510-66868-1

Client ID: SB0058:TK2FSS:165170

Sample Date/Time: 06/23/2011 09:30 Received Date/Time: 06/23/2011 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	510-66868-A-1-A		500-117736	500-117679	06/23/2011 09:30	1	TAL CHI	WRE
A:8015B	510-66868-A-1-A		500-117736	500-117679	06/25/2011 23:22	1	TAL CHI	LM
P:3541	510-66868-E-1-A		510-82538	510-82524	06/24/2011 07:50	1	TAL VAL	SNP
A:8015B	510-66868-E-1-A		510-82538	510-82524	06/24/2011 13:57	1	TAL VAL	CLI
A:Moisture	510-66868-E-1		510-82575		06/24/2011 17:33	1	TAL VAL	TLA

Lab ID: 510-66868-1 MS

Client ID: SB0058:TK2FSS:165170

Sample Date/Time: 06/23/2011 09:30 Received Date/Time: 06/23/2011 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	510-66868-E-1-B MS		510-82538	510-82524	06/24/2011 07:50	1	TAL VAL	SNP
A:8015B	510-66868-E-1-B MS		510-82538	510-82524	06/24/2011 14:29	1	TAL VAL	CLI

Lab ID: 510-66868-1 MSD

Client ID: SB0058:TK2FSS:165170

Sample Date/Time: 06/23/2011 09:30 Received Date/Time: 06/23/2011 13:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3541	510-66868-E-1-C MSD		510-82538	510-82524	06/24/2011 07:50	1	TAL VAL	SNP
A:8015B	510-66868-E-1-C MSD		510-82538	510-82524	06/24/2011 15:02	1	TAL VAL	CLI

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8015B	MB 500-117736/3		500-117736		06/25/2011 22:12	1	TAL CHI	LM
P:3541	MB 510-82524/1-A		510-82538	510-82524	06/24/2011 07:50	1	TAL VAL	SNP
A:8015B	MB 510-82524/1-A		510-82538	510-82524	06/24/2011 12:52	1	TAL VAL	CLI
A:Moisture	MB 510-82575/1		510-82575		06/24/2011 17:33	1	TAL VAL	TLA

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8015B	LCS 500-117736/4		500-117736		06/25/2011 22:47	1	TAL CHI	LM
P:3541	LCS 510-82524/2-A		510-82538	510-82524	06/24/2011 07:50	1	TAL VAL	SNP
A:8015B	LCS 510-82524/2-A		510-82538	510-82524	06/24/2011 13:25	1	TAL VAL	CLI

Quality Control Results

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8015B	LCSD 500-117736/6		500-117736		06/25/2011 23:58	1	TAL CHI	LM

Lab References:

TAL CHI = TestAmerica Chicago

TAL VAL = TestAmerica Valparaiso

8015B_GRO

Gasoline Range Organics - (GC) by
Method 8015B

FORM II
GASOLINE RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 510-66868-1

SDG No.: _____

Matrix: Solid Level: Low

GC Column (1): DB624 ID: 0.2 (mm)

Client Sample ID	Lab Sample ID	TFT1 #	BFB1 #
SB0058:TK2FSS:1651 70	510-66868-1	71	67
	MB 500-117736/3	105	100
	LCS 500-117736/4	105	103
	LCSD 500-117736/6	103	101

TFT = a,a,a-Trifluorotoluene
BFB = 4-Bromofluorobenzene

QC LIMITS
64-116
51-117

Column to be used to flag recovery values

FORM II 8015B

FORM III
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 510-66868-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: 06251114_004.d

Lab ID: LCS 500-117736/4 Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
C5-C12	0.400	0.409	102	70-130	

Column to be used to flag recovery and RPD values

FORM III
 GASOLINE RANGE ORGANICS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Chicago Job No.: 510-66868-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: 06251114_006.d

Lab ID: LCSD 500-117736/6 Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCSD CONCENTRATION (mg/Kg)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
C5-C12	0.400	0.404	101	1	30	70-130	

Column to be used to flag recovery and RPD values

FORM IV
GASOLINE RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Chicago Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: MB 500-117736/3
 Matrix: Solid Date Extracted: _____
 Lab File ID: (1) 06251114_003.d Lab File ID: (2) _____
 Date Analyzed: (1) 06/25/2011 22:12 Date Analyzed: (2) _____
 Instrument ID: (1) INST13-14 Instrument ID: (2) _____
 GC Column: (1) DB624 ID: 0.2 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 500-117736/4	06/25/2011 22:47	
SB0058:TK2FSS:165170	510-66868-1	06/25/2011 23:22	
	LCSD 500-117736/6	06/25/2011 23:58	

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 510-66868-1
 SDG No.: _____
 Client Sample ID: SB0058:TK2FSS:165170 Lab Sample ID: 510-66868-1
 Matrix: Solid Lab File ID: 06251114_005.d
 Analysis Method: 8015B Date Collected: 06/23/2011 09:30
 Sample wt/vol: 5.5479(g) Date Analyzed: 06/25/2011 23:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 % Moisture: 4.4 Level: (low/med) Low
 Analysis Batch No.: 117736 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00349	C5-C12	0.22		0.019	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	67		51-117
98-08-8	a,a,a-Trifluorotoluene	71		64-116

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_005.d
 Lims ID: 510-66868-A-1-A Client ID: SB0058:TK2FSS:165170
 Inject. Date: 25-Jun-2011 23:22:35 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: #: cd= Name: 062511,gro14s,510-66868-A-1-A
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 117736 Lims Sample ID: 5
 Detector: Ch-A-06251114
 Method: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\gro14s.m
 Last Update: 27-Jun-2011 16:00:18 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-OFF6A

First Level Reviewer: manzanol

Date: 27-Jun-2011 16:00:42

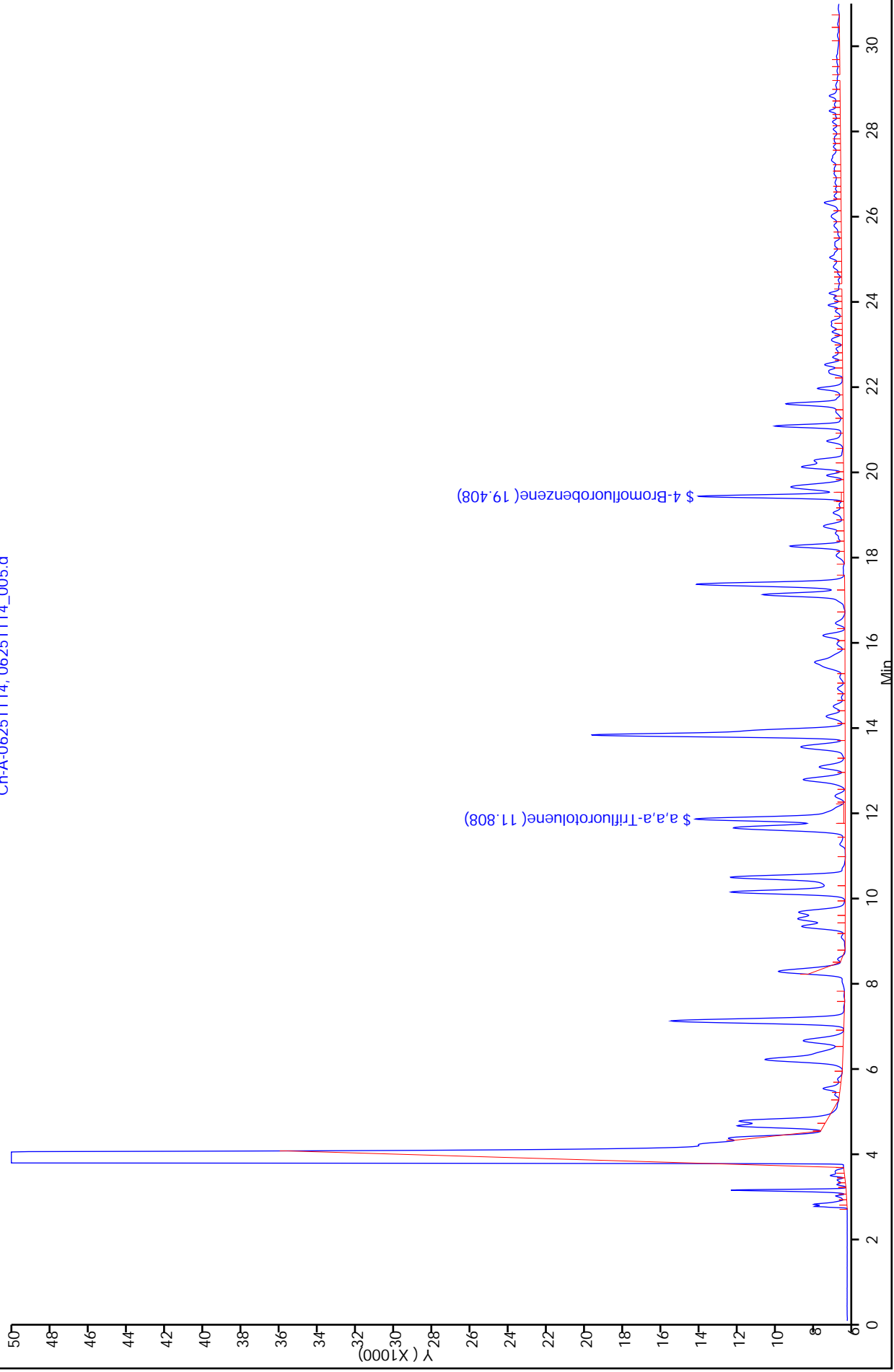
Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.808	11.834	-0.026	7675	14.2	
A 5 C5-C12	14.746	4.536 -	24.955	1978572	235.8	
\$ 3 4-Bromofluorobenzene	19.408	19.421	-0.013	7394	13.3	

Report Date: 27-Jun-2011 16:00:42
Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_005.d
Injection Date: 25-Jun-2011 23:22:35
Client ID: SB0058:TK2FSS:165170
Lims Batch ID: 117736
Operator ID: estesw

Chrom Revision: 1.2 03-Jun-2011 08:44:02
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 5

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-A-06251114_06251114_005.d



Report Date: 27-Jun-2011 16:00:42

Chrom Revision: 1.2 03-Jun-2011 08:44:02

Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_005.d

Injection Date: 25-Jun-2011 23:22:35

Limit Group: GCVOA_8015B_GRO

Client ID: SB0058:TK2FSS:165170

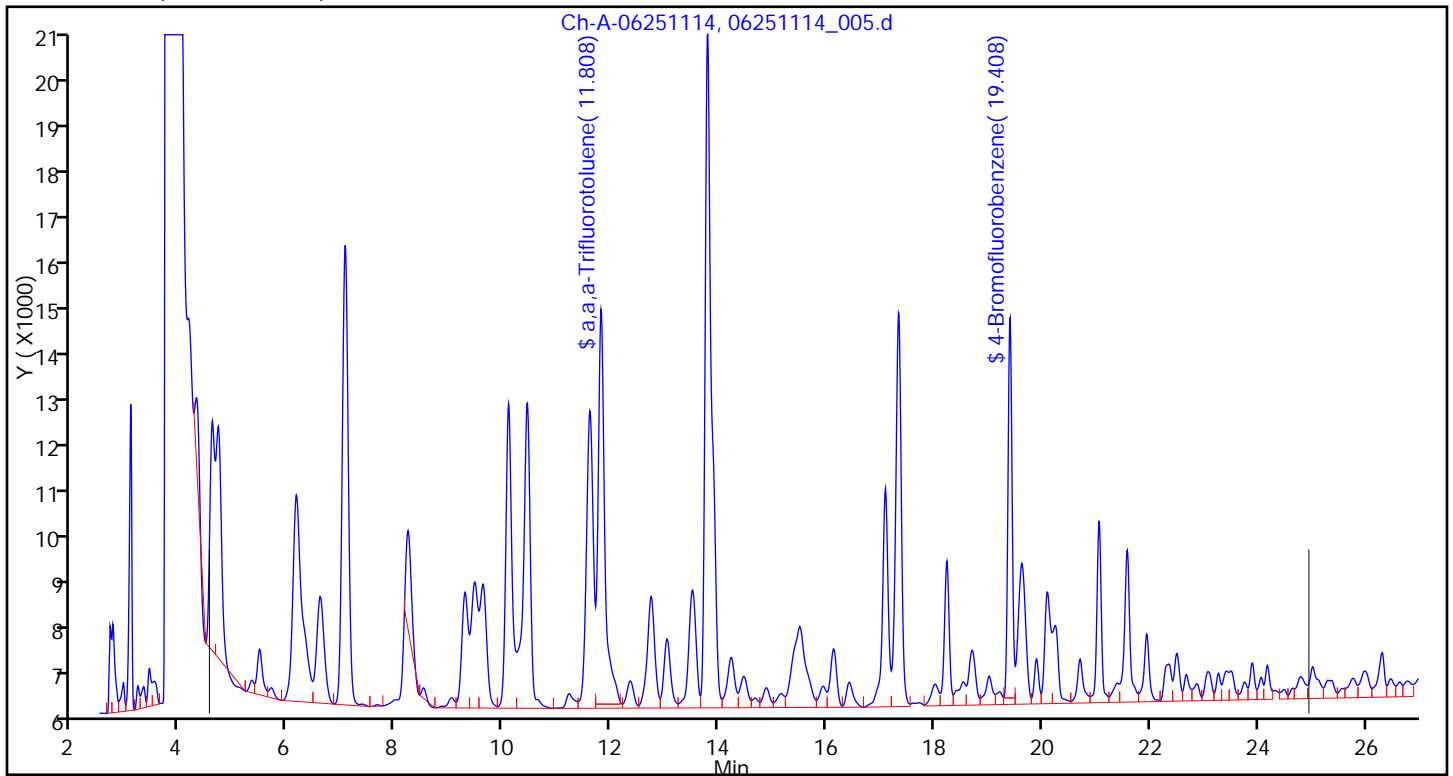
Instrument ID: INST13-14

Lims Batch ID: 117736

Lims Sample ID: 5

Operator ID: estesw

A 5 C5-C12, Detector: 1, Ch-A-01141011



FORM VI
 GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
 EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 510-66868-1 Analy Batch No.: 115482

SDG No.: _____

Instrument ID: INST13-14 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/03/2011 12:11 Calibration End Date: 06/03/2011 15:39 Calibration ID: 4717

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-115482/2	06031114_019.d
Level 2	IC 500-115482/3	06031114_020.d
Level 3	IC 500-115482/4	06031114_021.d
Level 4	IC 500-115482/5	06031114_022.d
Level 5	IC 500-115482/6	06031114_023.d
Level 6	IC 500-115482/7	06031114_024.d
Level 7	IC 500-115482/8	06031114_025.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Gasoline Range Organics (C6-C9)	13.611	13.611	13.611	13.611	13.611	13.611	13.611				6.071 - 21.152	13.611
C5-C12	14.725	14.725	14.725	14.725	14.725	14.725	14.725				4.514 - 24.935	14.725
Gasoline Range Organics (GRO)-C6-C12	15.503	15.503	15.503	15.503	15.503	15.503	15.503				6.071 - 24.935	15.503
Gasoline Range Organics (GRO)-C6-C10	16.245	16.245	16.245	16.245	16.245	16.245	16.245				6.071 - 26.420	16.245
a,a,a-Trifluorotoluene	11.808	11.808	11.808	11.808	11.817	11.808	11.808				11.717 - 11.917	11.809
4-Bromofluorobenzene	19.400	19.400	19.392	19.400	19.400	19.400	19.400				19.300 - 19.500	19.399

FORM VI
GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Chicago Job No.: 510-66868-1 Analy Batch No.: 115482

SDG No.: _____

Instrument ID: INST13-14 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/03/2011 12:11 Calibration End Date: 06/03/2011 15:39 Calibration ID: 4717

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-115482/2	06031114_019.d
Level 2	IC 500-115482/3	06031114_020.d
Level 3	IC 500-115482/4	06031114_021.d
Level 4	IC 500-115482/5	06031114_022.d
Level 5	IC 500-115482/6	06031114_023.d
Level 6	IC 500-115482/7	06031114_024.d
Level 7	IC 500-115482/8	06031114_025.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Gasoline Range Organics (C6-C9)	8882.4 7446.7	7791.0 7540.6	7587.8 7219.6	7322.1	Lin2	30936.3054	7285.80266							1.0000		0.9900
C5-C12	11032 8410.0	9084.4 8503.4	8692.9 8133.7	8253.8	Lin2	55917.2347	8152.55191							0.9990		0.9900
Gasoline Range Organics (GRO)-C6-C12	10706 8080.7	8750.3 8174.9	8387.0 7822.0	7965.0	Lin2	55653.5982	7838.30756							0.9990		0.9900
Gasoline Range Organics (GRO)-C6-C10	11136 8173.8	8876.7 8263.5	8500.1 7911.3	8060.4	Lin2	62452.3887	7898.60895							0.9990		0.9900
a,a,a-Trifluorotoluene	9950.0 8688.5	8928.4 8672.5	8699.0 8417.1	8729.6	Lin2	70.7532755	534.365942							1.0000		0.9900
4-Bromofluorobenzene	6652.0 6080.3	5808.8 6199.9	5708.6 6047.0	6045.3	Lin2	79.5610807	550.644503							0.9990		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
 GASOLINE RANGE ORGANICS INITIAL CALIBRATION DATA
 EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Chicago Job No.: 510-66868-1 Analy Batch No.: 115482

SDG No.: _____

Instrument ID: INST13-14 GC Column: DB624 ID: 0.2 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/03/2011 12:11 Calibration End Date: 06/03/2011 15:39 Calibration ID: 4717

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 500-115482/2	06031114_019.d
Level 2	IC 500-115482/3	06031114_020.d
Level 3	IC 500-115482/4	06031114_021.d
Level 4	IC 500-115482/5	06031114_022.d
Level 5	IC 500-115482/6	06031114_023.d
Level 6	IC 500-115482/7	06031114_024.d
Level 7	IC 500-115482/8	06031114_025.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Gasoline Range Organics (C6-C9)	Lin2	177647 4524334	389549 7219623	758777	1464413	2978679	20.0 600	50.0 1000	100	200	400
C5-C12	Lin2	220633 5102034	454219 8133699	869290	1650751	3363984	20.0 600	50.0 1000	100	200	400
Gasoline Range Organics (GRO)-C6-C12	Lin2	214126 4904927	437514 7822034	838698	1593008	3232296	20.0 600	50.0 1000	100	200	400
Gasoline Range Organics (GRO)-C6-C10	Lin2	222712 4958078	443836 7911298	850014	1612082	3269502	20.0 600	50.0 1000	100	200	400
a, a, a-Trifluorotoluene	Lin2	9950 260175	22321 420855	43495	87296	173770	1.00 30.0	2.50 50.0	5.00	10.0	20.0
4-Bromofluorobenzene	Lin2	6652 185996	14522 302352	28543	60453	121605	1.00 30.0	2.50 50.0	5.00	10.0	20.0

Curve Type Legend:

Lin2 = Linear 1/conc^2

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_019.d
 Lims ID: ic Client ID:
 Inject. Date: 03-Jun-2011 12:11:57 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: #: cd= Name: 060311,gro14s,ic20
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 115482 Lims Sample ID: 2
 Sublist: chrom-gro14s*sub1
 Detector: Ch-A-06031114
 Method: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\gro14s.m
 Last Update: 04-Jun-2011 02:10:53 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-VLAB2

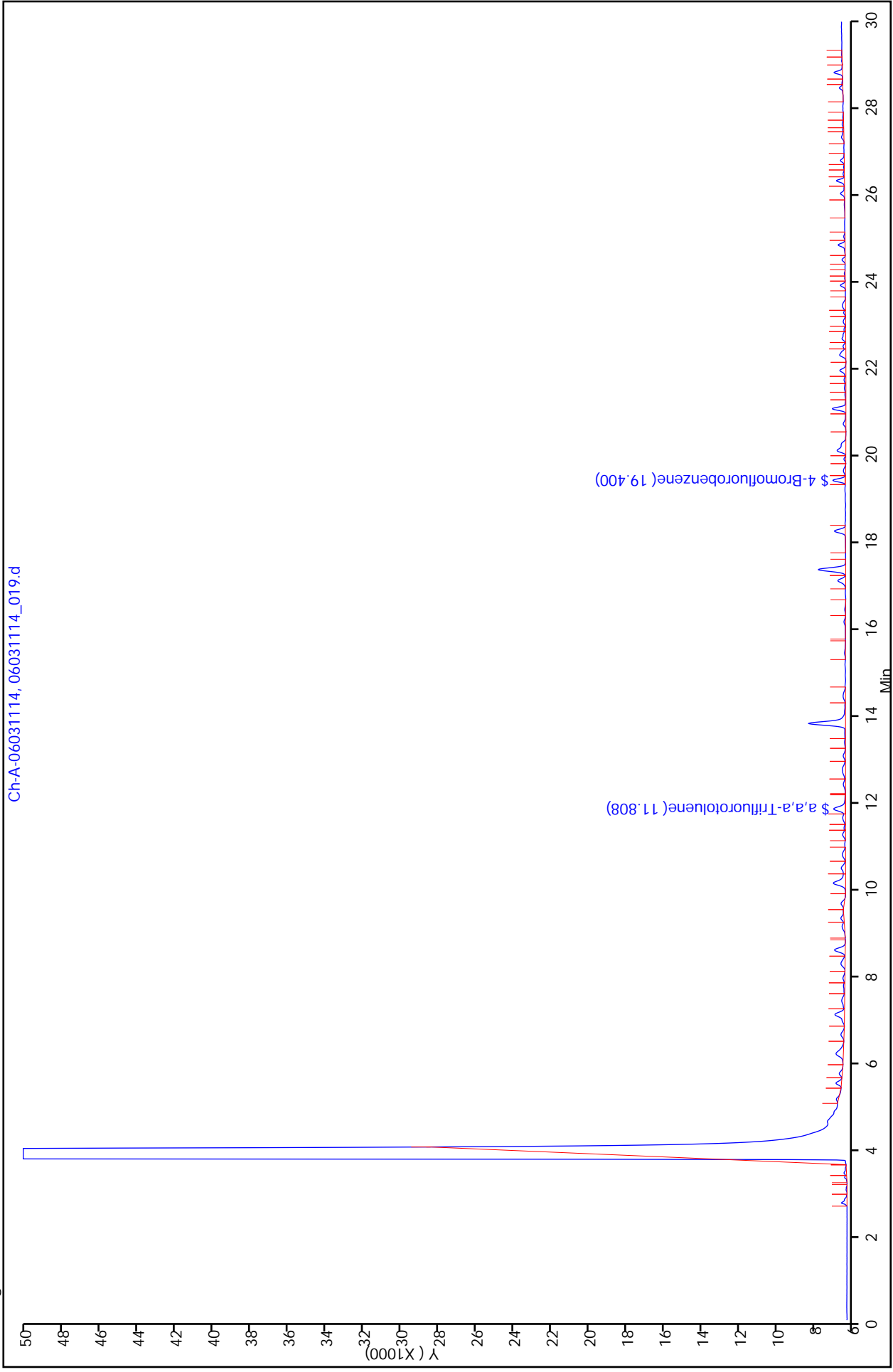
First Level Reviewer: estesw

Date: 04-Jun-2011 01:26:09

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.808	11.808	0.0	609	1.01	
A 10 GRO	13.611	6.071 - 21.152		177647	20.1	
A 5 C5-C12	14.725	4.514 - 24.935		220633	20.2	
A 7 C6-C12	15.503	6.071 - 24.935		214126	20.2	
A 6 C6-C10	16.245	6.071 - 26.420		222712	20.3	
\$ 3 4-Bromofluorobenzene	19.400	19.400	0.0	643	1.02	

Report Date: 04-Jun-2011 02:10:54
Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_019.d
Injection Date: 03-Jun-2011 12:11:57
Client ID:
Lims Batch ID: 115482
Operator ID: estesw
Y Scaling: Method Defined: Set to Absolute Y Value

Chrom Revision: 1.2 17-May-2011 14:46:34
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_020.d
 Lims ID: ic Client ID:
 Inject. Date: 03-Jun-2011 12:46:34 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: #: cd= Name: 060311,gro14s,ic50
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 115482 Lims Sample ID: 3
 Sublist: chrom-gro14s*sub1
 Detector: Ch-A-06031114
 Method: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\gro14s.m
 Last Update: 04-Jun-2011 02:11:38 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-VLAB2

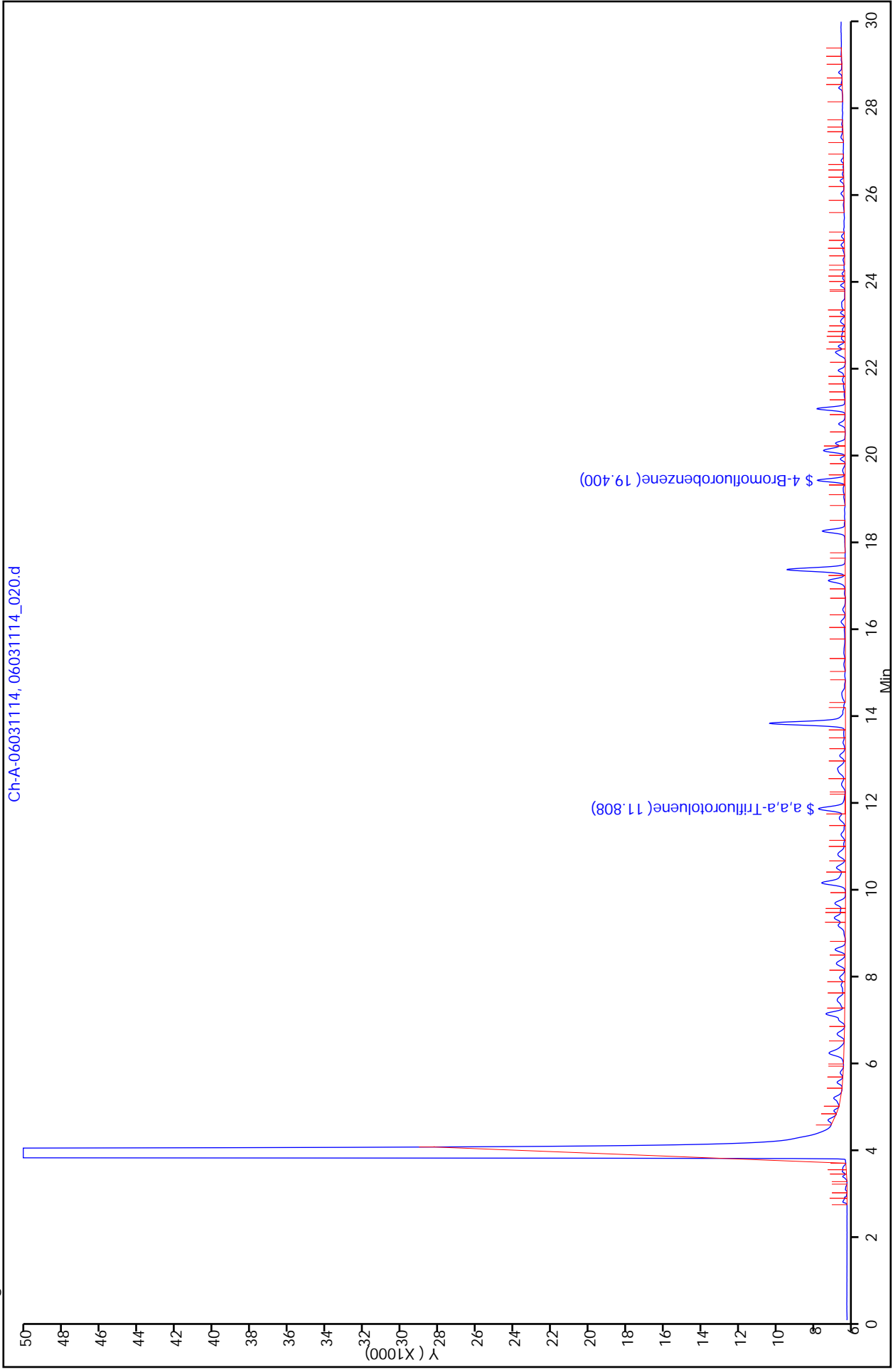
First Level Reviewer: estesw

Date: 04-Jun-2011 01:26:37

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.808	11.808	0.0	1387	2.46	
A 10 GRO	13.611	6.071 - 21.152		389549	49.2	
A 5 C5-C12	14.725	4.514 - 24.935		454219	48.9	
A 7 C6-C12	15.503	6.071 - 24.935		437514	48.7	
A 6 C6-C10	16.245	6.071 - 26.420		443836	48.3	
\$ 3 4-Bromofluorobenzene	19.400	19.400	0.0	1399	2.40	

Report Date: 04-Jun-2011 02:11:39
Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_020.d
Injection Date: 03-Jun-2011 12:46:34
Client ID: GCVOA_8015B_GRO
Lims Batch ID: 115482
Operator ID: estesw
Y Scaling: Method Defined: Set to Absolute Y Value

Chrom Revision: 1.2 17-May-2011 14:46:34
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 3



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_021.d
 Lims ID: ic Client ID:
 Inject. Date: 03-Jun-2011 13:21:07 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: #: cd= Name: 060311,gro14s,ic100
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 115482 Lims Sample ID: 4
 Sublist: chrom-gro14s*sub1
 Detector: Ch-A-06031114
 Method: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\gro14s.m
 Last Update: 04-Jun-2011 02:12:09 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-VLAB2

First Level Reviewer: estesw

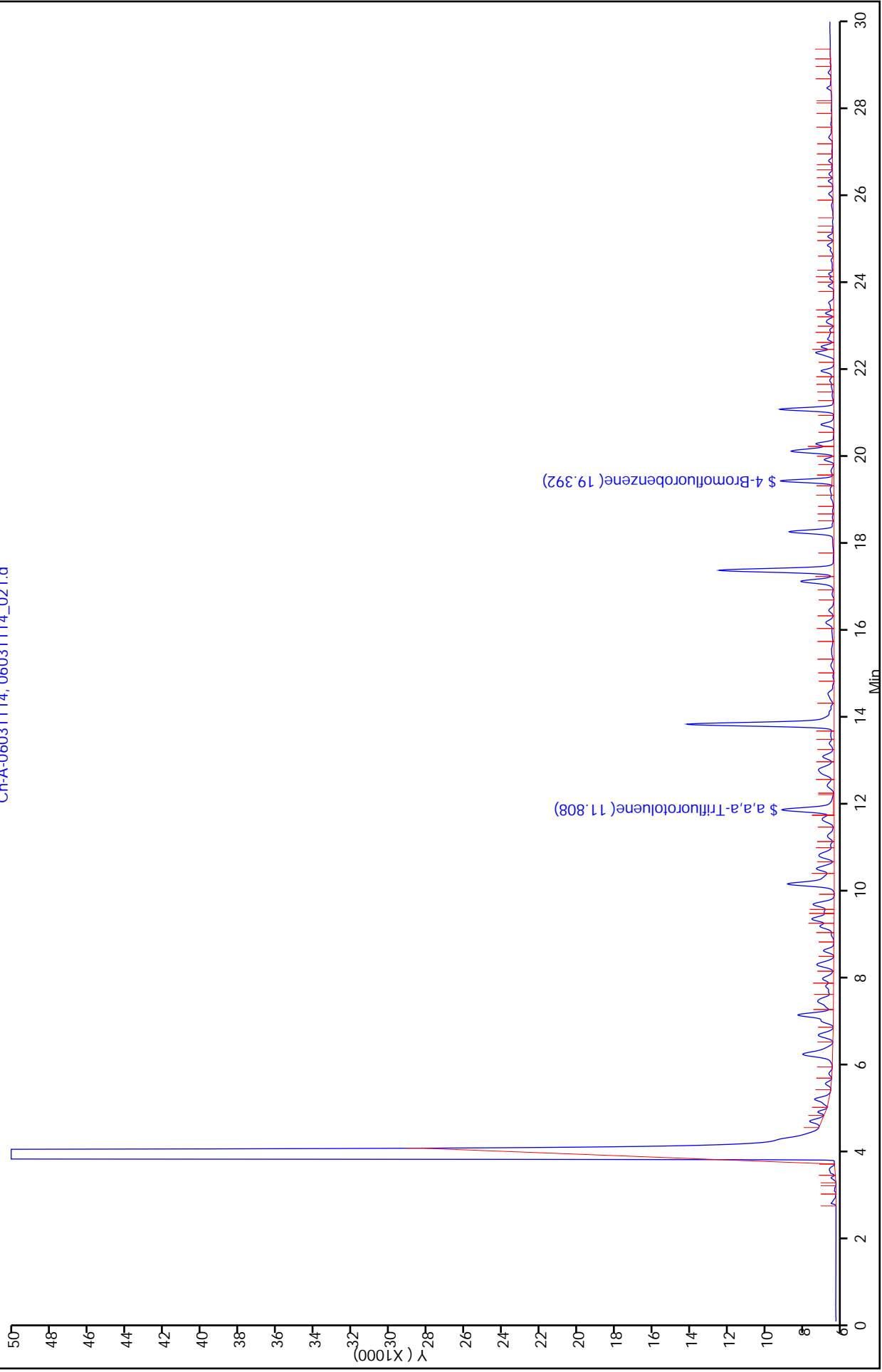
Date: 04-Jun-2011 01:27:21

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.808	11.808	0.0	2702	4.92	
A 10 GRO	13.611	6.071 - 21.152		758777	99.9	
A 5 C5-C12	14.725	4.514 - 24.935		869290	99.8	
A 7 C6-C12	15.503	6.071 - 24.935		838698	99.9	
A 6 C6-C10	16.245	6.071 - 26.420		850014	99.7	
\$ 3 4-Bromofluorobenzene	19.392	19.400	-0.008	2700	4.76	

Report Date: 04-Jun-2011 02:12:10
Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_021.d
Injection Date: 03-Jun-2011 13:21:07
Client ID:
Lims Batch ID: 115482
Operator ID: estesw
Chrom Revision: 1.2 17-May-2011 14:46:34
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 4

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-A-06031114_06031114_021.d



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_022.d
 Lims ID: ic Client ID:
 Inject. Date: 03-Jun-2011 13:55:37 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: #: cd= Name: 060311,gro14s,ic200
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 115482 Lims Sample ID: 5
 Sublist: chrom-gro14s*sub1
 Detector: Ch-A-06031114
 Method: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\gro14s.m
 Last Update: 04-Jun-2011 02:12:40 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-VLAB2

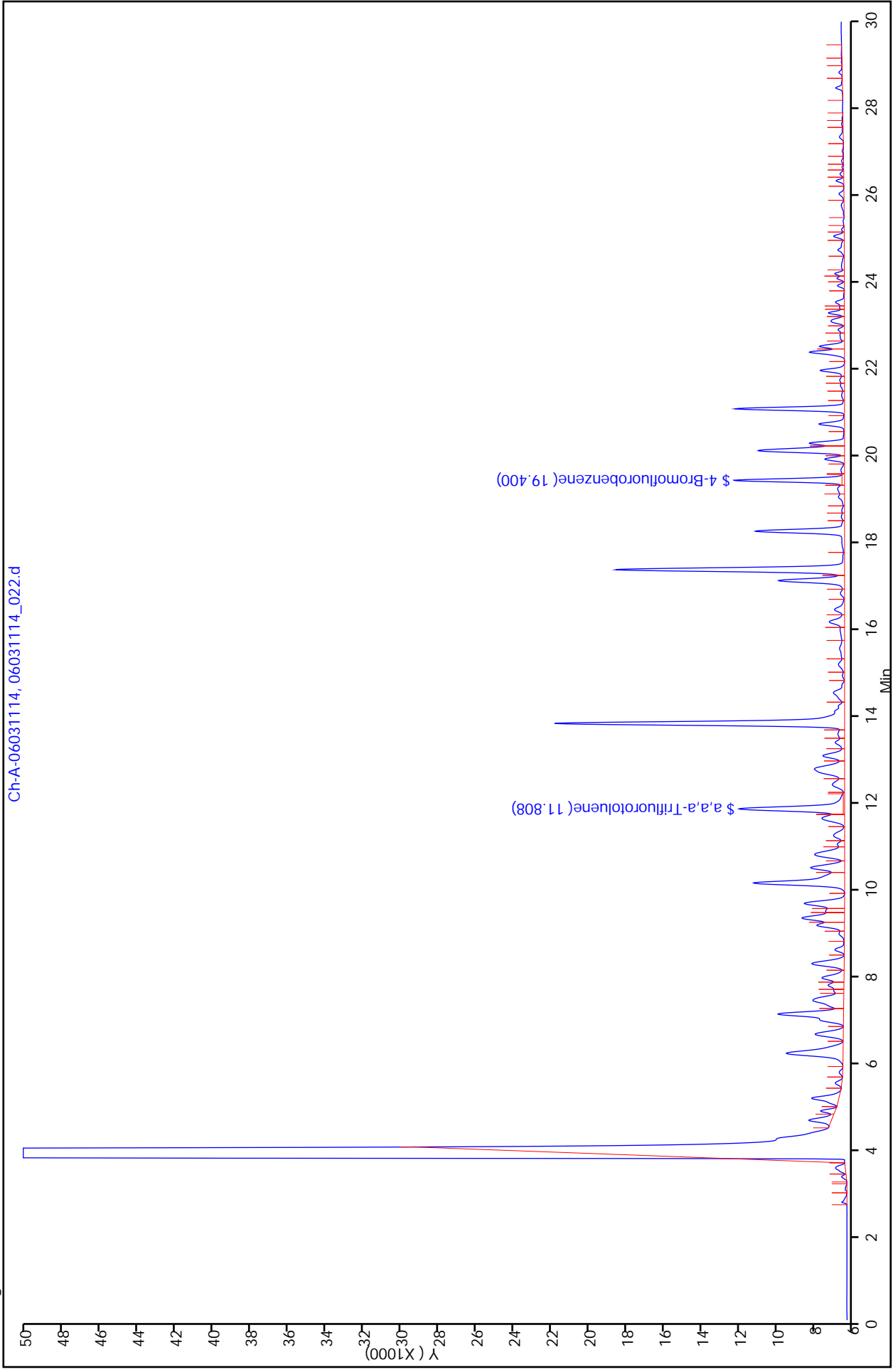
First Level Reviewer: estesw

Date: 04-Jun-2011 01:27:50

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.808	11.808	0.0	5464	10.1	
A 10 GRO	13.611	6.071 - 21.152		1464413	196.7	
A 5 C5-C12	14.725	4.514 - 24.935		1650751	195.6	
A 7 C6-C12	15.503	6.071 - 24.935		1593008	196.1	
A 6 C6-C10	16.245	6.071 - 26.420		1612082	196.2	
\$ 3 4-Bromofluorobenzene	19.400	19.400	0.0	5643	10.1	

Report Date: 04-Jun-2011 02:12:41
Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_022.d
Injection Date: 03-Jun-2011 13:55:37
Client ID: GCVOA_8015B_GRO
Lims Batch ID: 115482
Operator ID: estesw
Y Scaling: Method Defined: Set to Absolute Y Value

Chrom Revision: 1.2 17-May-2011 14:46:34
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 5



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_023.d
 Lims ID: ic Client ID:
 Inject. Date: 03-Jun-2011 14:30:10 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: #: cd= Name: 060311,gro14s,ic400
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 115482 Lims Sample ID: 6
 Sublist: chrom-gro14s*sub1
 Detector: Ch-A-06031114
 Method: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\gro14s.m
 Last Update: 04-Jun-2011 02:13:07 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-VLAB2

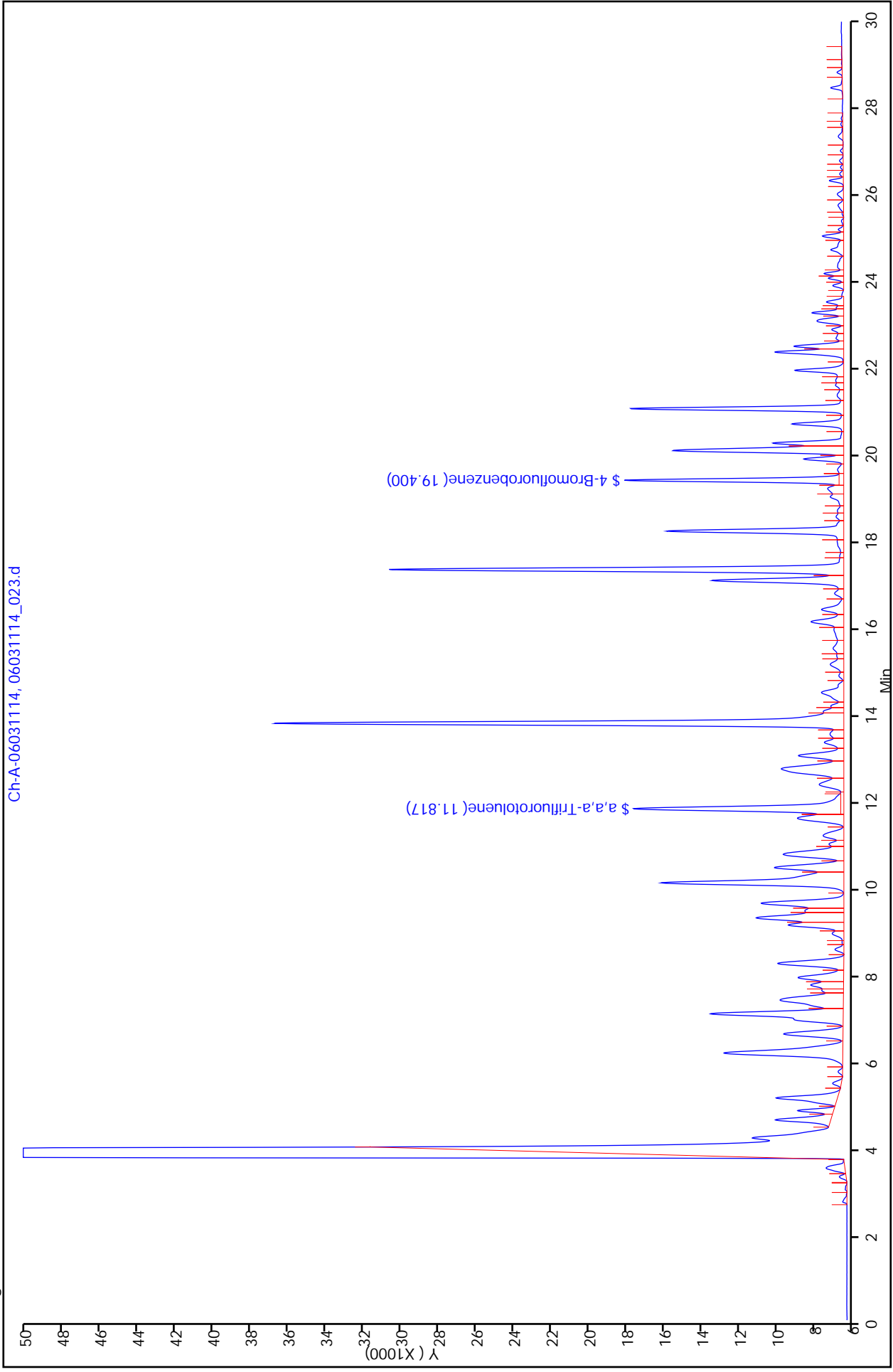
First Level Reviewer: estesw

Date: 04-Jun-2011 01:28:50

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.817	11.817	0.0	10846	20.2	
A 10 GRO	13.611	6.071 - 21.152		2978679	404.6	
A 5 C5-C12	14.725	4.514 - 24.935		3363984	405.8	
A 7 C6-C12	15.503	6.071 - 24.935		3232296	405.3	
A 6 C6-C10	16.245	6.071 - 26.420		3269502	406.0	
\$ 3 4-Bromofluorobenzene	19.400	19.400	0.0	11234	20.3	

Report Date: 04-Jun-2011 02:13:08
Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_023.d
Injection Date: 03-Jun-2011 14:30:10
Client ID: GCVOA_8015B_GRO
Lims Batch ID: 115482
Operator ID: estesw
Y Scaling: Method Defined: Set to Absolute Y Value

Chrom Revision: 1.2 17-May-2011 14:46:34
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 6



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_024.d
 Lims ID: ic Client ID:
 Inject. Date: 03-Jun-2011 15:04:39 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: #: cd= Name: 060311,gro14s,ic600
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 115482 Lims Sample ID: 7
 Sublist: chrom-gro14s*sub1
 Detector: Ch-A-06031114
 Method: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\gro14s.m
 Last Update: 04-Jun-2011 02:13:33 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-VLAB2

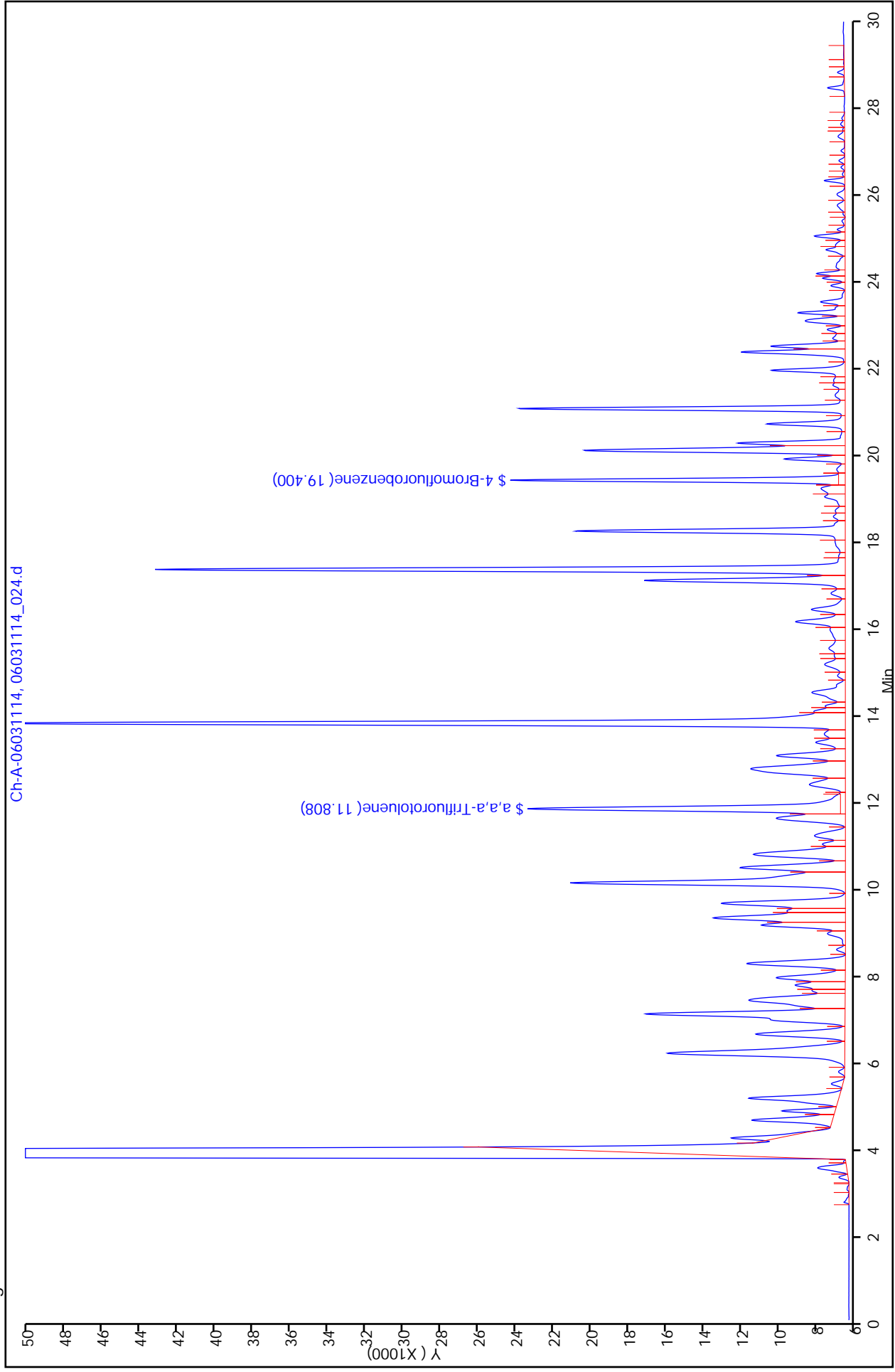
First Level Reviewer: estesw

Date: 04-Jun-2011 01:29:32

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.808	11.817	-0.009	16369	30.5	
A 10 GRO	13.611	6.071 - 21.152		4524334	616.7	
A 5 C5-C12	14.725	4.514 - 24.935		5102034	619.0	
A 7 C6-C12	15.503	6.071 - 24.935		4904927	618.7	
A 6 C6-C10	16.245	6.071 - 26.420		4958078	619.8	
\$ 3 4-Bromofluorobenzene	19.400	19.400	0.0	17192	31.1	

Report Date: 04-Jun-2011 02:13:34
Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_024.d
Injection Date: 03-Jun-2011 15:04:39
Client ID: 03-Jun-2011 15:04:39
Lims Batch ID: 115482
Operator ID: estesw
Y Scaling: Method Defined: Set to Absolute Y Value

Chrom Revision: 1.2 17-May-2011 14:46:34
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 7



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Lims ID: ic Client ID:
 Inject. Date: 03-Jun-2011 15:39:09 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 7
 Sample ID: #: cd= Name: 060311,gro14s,ic1000
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 115482 Lims Sample ID: 8
 Sublist: chrom-gro14s*sub1
 Detector: Ch-A-06031114
 Method: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\gro14s.m
 Last Update: 04-Jun-2011 02:13:54 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-VLAB2

First Level Reviewer: estesw

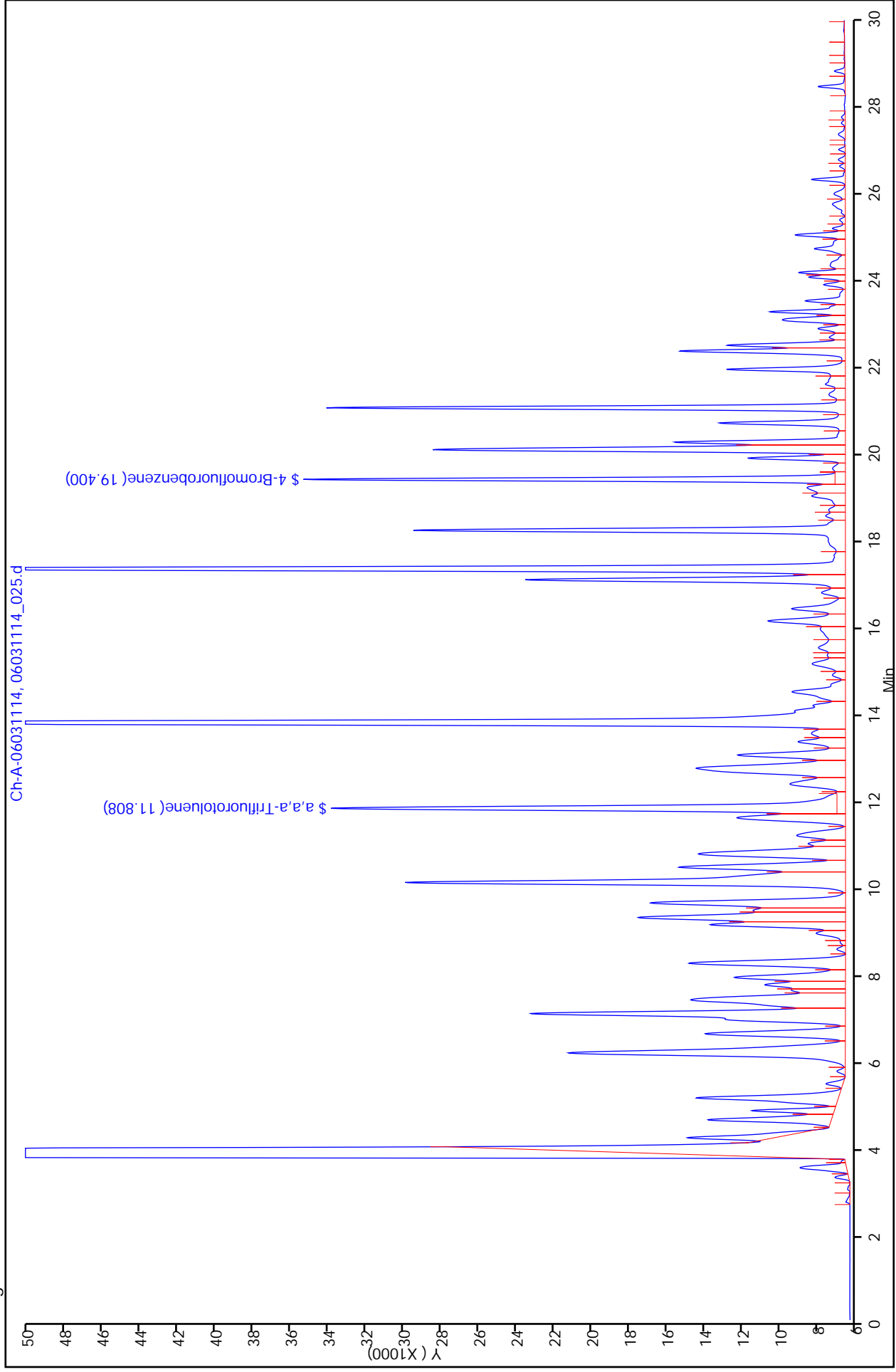
Date: 04-Jun-2011 02:13:54

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.808	11.817	-0.009	26481	49.4	
A 10 GRO	13.611	6.071 - 21.152		7219623	986.7	
A 5 C5-C12	14.725	4.514 - 24.935		8133699	990.8	
A 7 C6-C12	15.503	6.071 - 24.935		7822034	990.8	
A 6 C6-C10	16.245	6.071 - 26.420		7911298	993.7	
\$ 3 4-Bromofluorobenzene	19.400	19.400	0.0	27816	50.4	

Report Date: 04-Jun-2011 02:13:55
Data File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
Injection Date: 03-Jun-2011 15:39:09
Client ID: 03-Jun-2011 15:39:09
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 8

Lims Batch ID: 115482
Operator ID: estesw

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: CCV 500-117736/2 Calibration Date: 06/25/2011 21:36
 Instrument ID: INST13-14 Calib Start Date: 06/03/2011 12:11
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/03/2011 15:39
 Lab File ID: 06251114_002.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (C6-C9)	Lin2		7554		411	400	2.6	15.0
C5-C12	Lin2		8613		416	400	3.9	15.0
Gasoline Range Organics (GRO)-C6-C12	Lin2		8224		413	400	3.2	15.0
Gasoline Range Organics (GRO)-C6-C10	Lin2		8330		414	400	3.5	15.0
a, a, a-Trifluorotoluene	Lin2		9057		21.2	20.0	6.0	15.0
4-Bromofluorobenzene	Lin2		6367		21.2	20.0	6.0	15.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: CCV 500-117736/2 Calibration Date: 06/25/2011 21:36
 Instrument ID: INST13-14 Calib Start Date: 06/03/2011 12:11
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/03/2011 15:39
 Lab File ID: 06251114_002.d Heated Purge: (Y/N) Y

Analyte	RT	RT WINDOW	
		TO	FROM
Gasoline Range Organics (C6-C9)	13.63	6.09	21.17
C5-C12	14.75	4.54	24.96
Gasoline Range Organics (GRO)-C6-C12	15.53	6.09	24.96
Gasoline Range Organics (GRO)-C6-C10	16.27	6.09	26.44
a,a,a-Trifluorotoluene	11.83	11.73	11.93
4-Bromofluorobenzene	19.42	19.32	19.52

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_002.d
 Lims ID: ccv Client ID:
 Inject. Date: 25-Jun-2011 21:36:34 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: #: cd= Name: 062511,gro14s,ccv
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 117736 Lims Sample ID: 2
 Sublist: chrom-gro14s*sub1
 Detector: Ch-A-06251114
 Method: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\gro14s.m
 Last Update: 27-Jun-2011 16:00:18 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-OFF6A

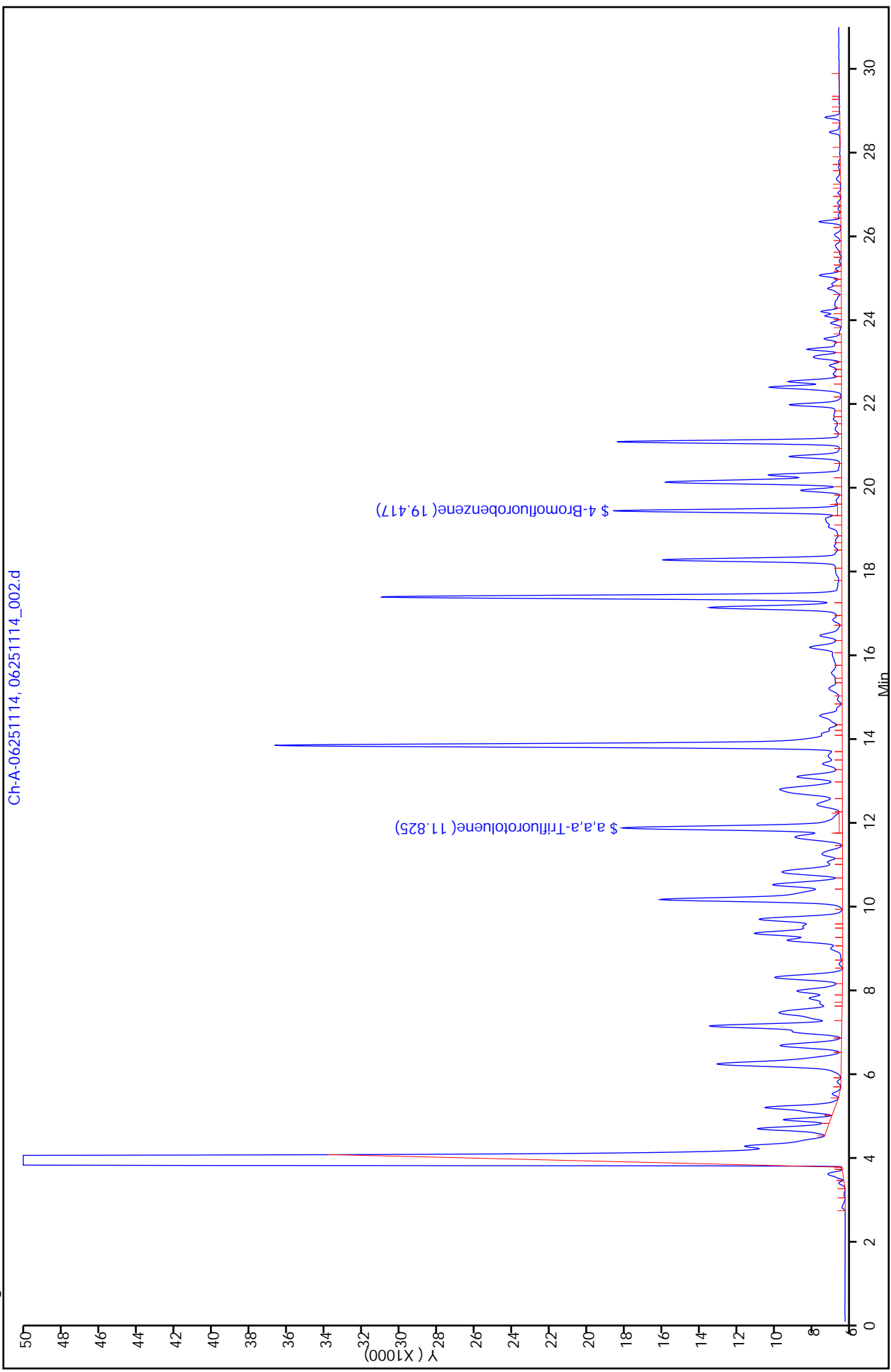
First Level Reviewer: manzanol

Date: 27-Jun-2011 16:00:18

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.825	11.834	-0.009	11402	21.2	
A 10 GRO	13.634	6.094 - 21.174		3021473	410.5	
A 5 C5-C12	14.746	4.536 - 24.955		3445007	415.7	
A 7 C6-C12	15.525	6.094 - 24.955		3289598	412.6	
A 6 C6-C10	16.268	6.094 - 26.442		3332169	414.0	
\$ 3 4-Bromofluorobenzene	19.417	19.421	-0.004	11770	21.2	

Report Date: 27-Jun-2011 16:00:18
Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_002.d
Injection Date: 25-Jun-2011 21:36:34
Client ID: GCVOA_8015B_GRO
Lims Batch ID: 117736
Operator ID: estesw
Y Scaling: Method Defined: Set to Absolute Y Value

Chrom Revision: 1.2 03-Jun-2011 08:44:02
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 2



FORM VII
GASOLINE RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Chicago Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: CCV 500-117736/7 Calibration Date: 06/26/2011 00:33
 Instrument ID: INST13-14 Calib Start Date: 06/03/2011 12:11
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/03/2011 15:39
 Lab File ID: 06251114_007.d Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Gasoline Range Organics (C6-C9)	Lin2		7417		403	400	0.7	15.0
C5-C12	Lin2		8423		406	400	1.6	15.0
Gasoline Range Organics (GRO)-C6-C12	Lin2		8072		405	400	1.2	15.0
Gasoline Range Organics (GRO)-C6-C10	Lin2		8169		406	400	1.5	15.0
a, a, a-Trifluorotoluene	Lin2		8694		20.2	20.0	1.0	15.0
4-Bromofluorobenzene	Lin2		6108		20.3	20.0	1.5	15.0

FORM VII
 GASOLINE RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Chicago Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: CCV 500-117736/7 Calibration Date: 06/26/2011 00:33
 Instrument ID: INST13-14 Calib Start Date: 06/03/2011 12:11
 GC Column: DB624 ID: 0.20 (mm) Calib End Date: 06/03/2011 15:39
 Lab File ID: 06251114_007.d Heated Purge: (Y/N) Y

Analyte	RT	RT WINDOW	
		TO	FROM
Gasoline Range Organics (C6-C9)	13.63	6.09	21.17
C5-C12	14.75	4.54	24.96
Gasoline Range Organics (GRO)-C6-C12	15.53	6.09	24.96
Gasoline Range Organics (GRO)-C6-C10	16.27	6.09	26.44
a,a,a-Trifluorotoluene	11.81	11.73	11.93
4-Bromofluorobenzene	19.40	19.32	19.52

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_007.d
 Lims ID: ccv Client ID:
 Inject. Date: 26-Jun-2011 00:33:33 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: #: cd= Name: 062511,gro14s,ccv
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 117736 Lims Sample ID: 7
 Sublist: chrom-gro14s*sub1
 Detector: Ch-A-06251114
 Method: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\gro14s.m
 Last Update: 27-Jun-2011 16:00:57 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-OFF6A

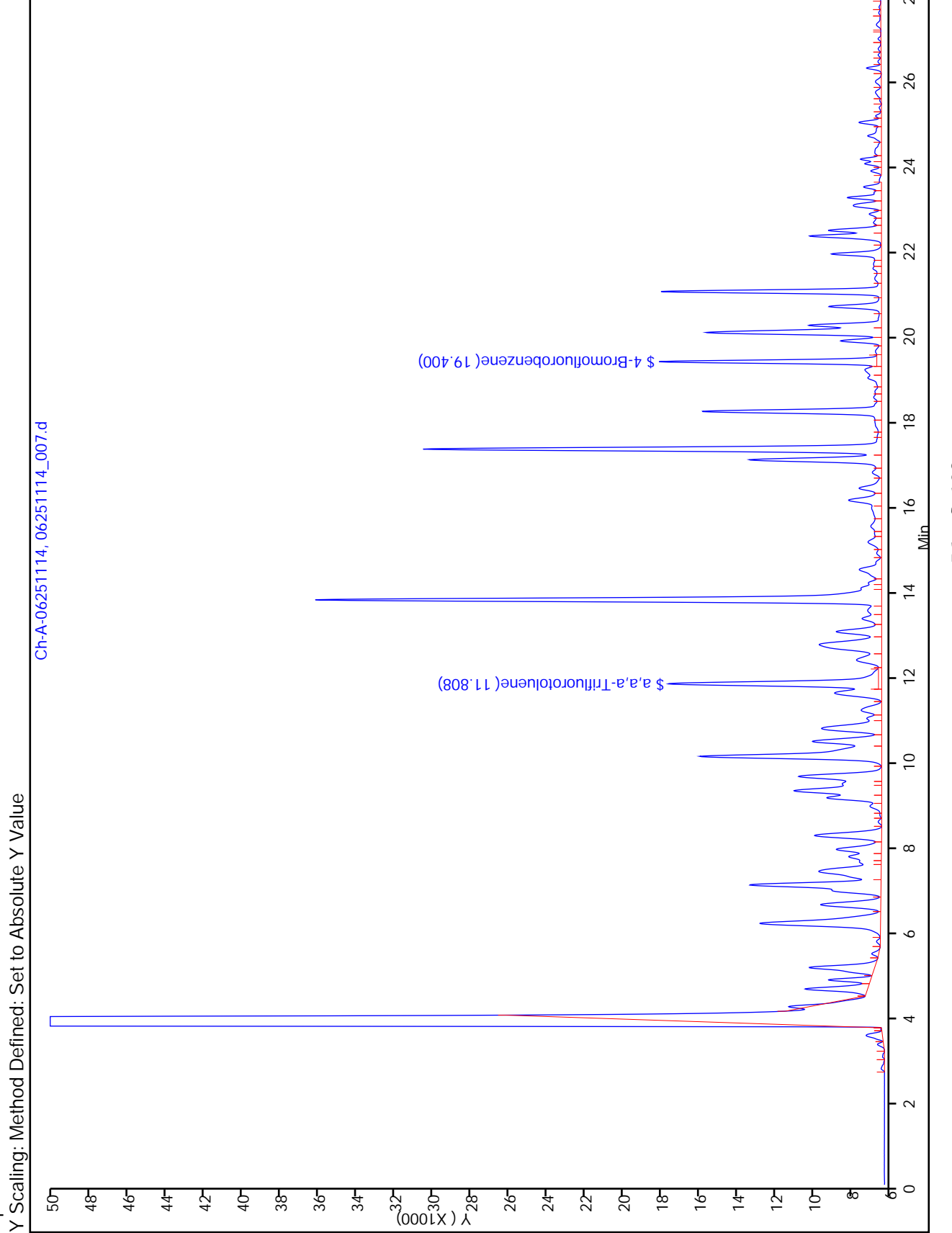
First Level Reviewer: manzanol

Date: 27-Jun-2011 16:00:57

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.808	11.834	-0.026	10879	20.2	
A 10 GRO	13.634	6.094 - 21.174		2966722	402.9	
A 5 C5-C12	14.746	4.536 - 24.955		3369295	406.4	
A 7 C6-C12	15.525	6.094 - 24.955		3228984	404.8	
A 6 C6-C10	16.268	6.094 - 26.442		3267534	405.8	
\$ 3 4-Bromofluorobenzene	19.400	19.421	-0.021	11272	20.3	

Report Date: 27-Jun-2011 16:00:58
Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_007.d
Injection Date: 26-Jun-2011 00:33:33
Client ID: 26-Jun-2011 00:33:33
Lims Batch ID: 117736
Operator ID: estesw
Y Scaling: Method Defined: Set to Absolute Y Value

Chrom Revision: 1.2 03-Jun-2011 08:44:02
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 7



FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 510-66868-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 500-117736/3
 Matrix: Solid Lab File ID: 06251114_003.d
 Analysis Method: 8015B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 06/25/2011 22:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 117736 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00349	C5-C12	<0.020		0.020	0.0077

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	100		51-117
98-08-8	a,a,a-Trifluorotoluene	105		64-116

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_003.d
 Lims ID: mb Client ID:
 Inject. Date: 25-Jun-2011 22:12:02 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: #: cd= Name: 062511,gro14s,mb
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 117736 Lims Sample ID: 3
 Detector: Ch-A-06251114
 Method: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\gro14s.m
 Last Update: 27-Jun-2011 16:00:18 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-OFF6A

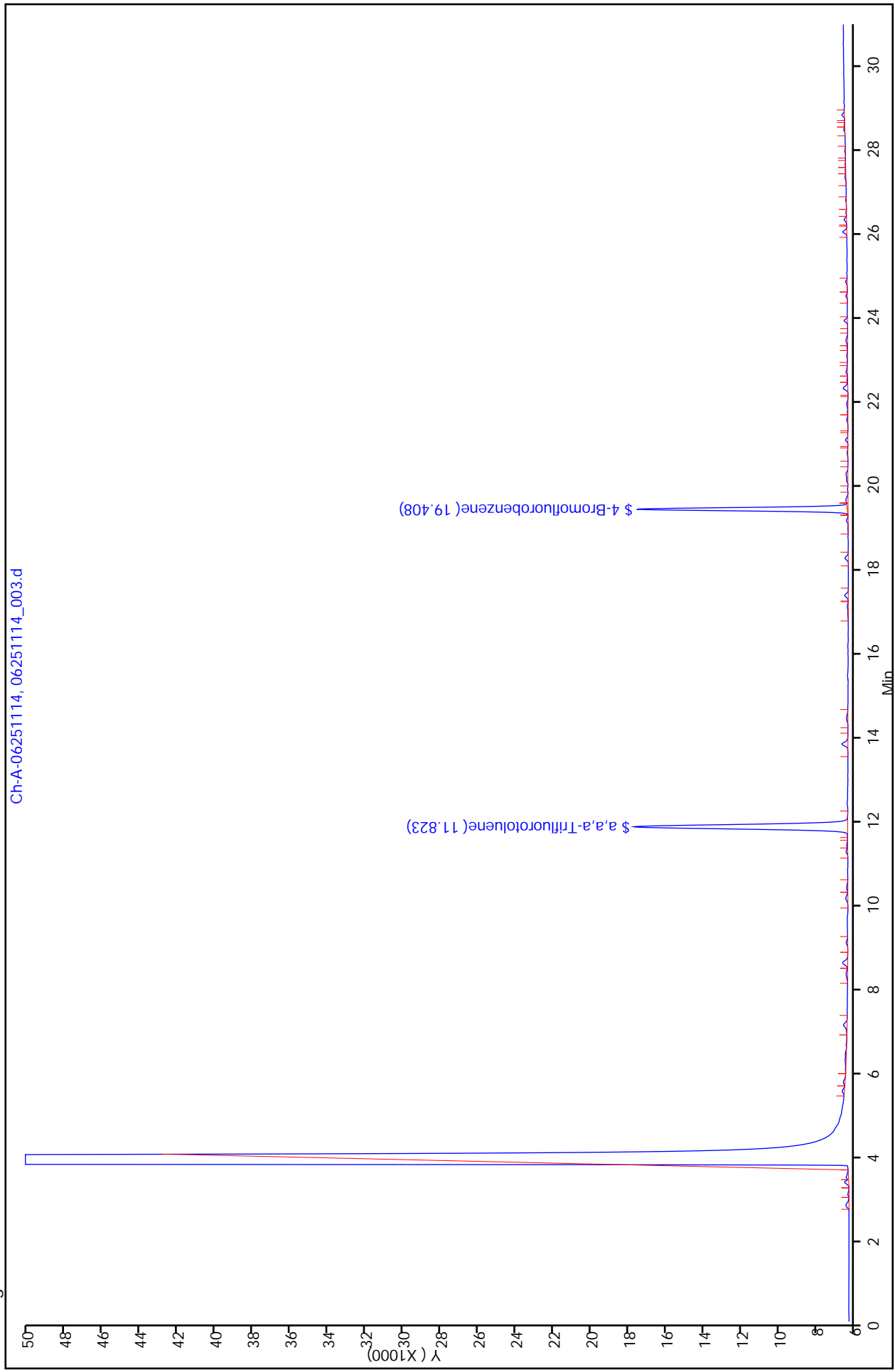
First Level Reviewer: manzanol

Date: 27-Jun-2011 16:00:28

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.823	11.834	-0.011	11220	20.9	
\$ 3 4-Bromofluorobenzene	19.408	19.421	-0.013	11029	19.9	
1 1,2,4-Trimethylbenzene	21.066	21.074	-0.008	1263	0	
9 Dodecane	24.847	24.855	-0.008	966	0	
11 Naphthalene	26.331	26.342	-0.011	1365	0	

Report Date: 27-Jun-2011 16:00:28
Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_003.d
Injection Date: 25-Jun-2011 22:12:02
Client ID: GCVOA_8015B_GRO
Lims Batch ID: 117736
Operator ID: estesw
Lims Sample ID: 3

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 510-66868-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 500-117736/4
 Matrix: Solid Lab File ID: 06251114_004.d
 Analysis Method: 8015B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 06/25/2011 22:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 117736 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00349	C5-C12	0.409		0.020	0.0077

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	103		51-117
98-08-8	a,a,a-Trifluorotoluene	105		64-116

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_004.d
 Lims ID: lcs Client ID:
 Inject. Date: 25-Jun-2011 22:47:17 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: #: cd= Name: 062511,gro14s,lcs
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 117736 Lims Sample ID: 4
 Detector: Ch-A-06251114
 Method: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\gro14s.m
 Last Update: 27-Jun-2011 16:00:18 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-OFF6A

First Level Reviewer: manzanol

Date: 27-Jun-2011 16:00:34

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.817	11.834	-0.017	11245	20.9	
A 10 GRO	13.634	6.094 - 21.174		3028847	411.5	
A 5 C5-C12	14.746	4.536 - 24.955		3393464	409.4	
A 7 C6-C12	15.525	6.094 - 24.955		3220995	403.8	
A 6 C6-C10	16.268	6.094 - 26.442		3244533	402.9	
\$ 3 4-Bromofluorobenzene	19.408	19.421	-0.013	11404	20.6	

Report Date: 27-Jun-2011 16:00:34
Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_004.d
Injection Date: 25-Jun-2011 22:47:17
Client ID:
Lims Batch ID: 117736
Operator ID: estesw
Y Scaling: Method Defined: Set to Absolute Y Value

Chrom Revision: 1.2 03-Jun-2011 08:44:02

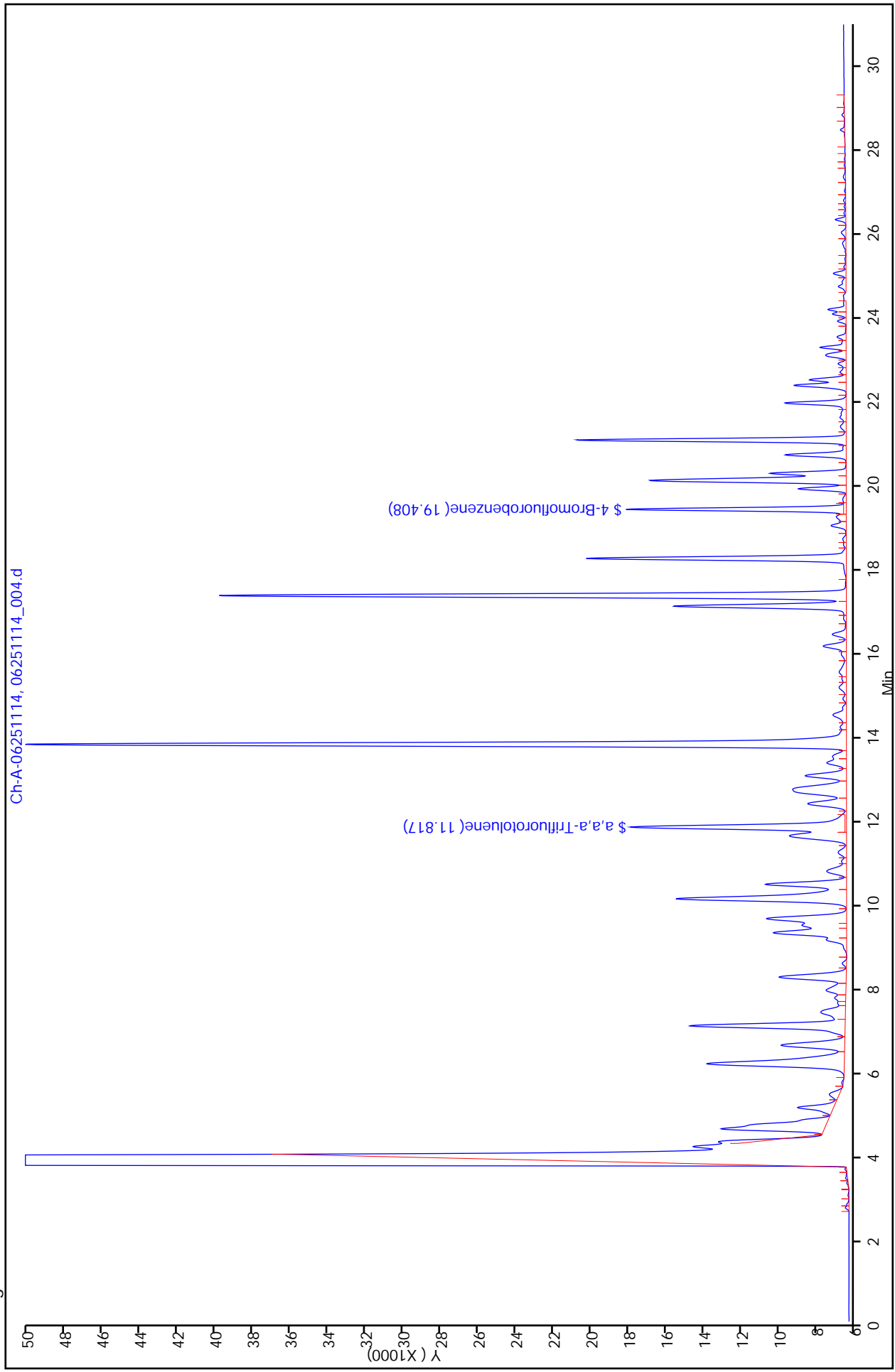
Limit Group: GCVOA_8015B_GRO

Instrument ID: INST13-14

Lims Sample ID: 4

Lims Sample ID: 4

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Chicago Job No.: 510-66868-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 500-117736/6
 Matrix: Solid Lab File ID: 06251114_006.d
 Analysis Method: 8015B Date Collected: _____
 Sample wt/vol: 5(g) Date Analyzed: 06/25/2011 23:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB624 ID: 0.2 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 117736 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00349	C5-C12	0.404		0.020	0.0077

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene	101		51-117
98-08-8	a,a,a-Trifluorotoluene	103		64-116

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_006.d
 Lims ID: lcsd Client ID:
 Inject. Date: 25-Jun-2011 23:58:05 Dil. Factor: 1.0000
 Sample Type: LCSD
 Sample ID: #: cd= Name: 062511,gro14s,lcsd
 Misc. Info.:
 Operator: estesw Instrument ID: INST13-14
 Vol. Injected: 1.0000 ALS Bottle#: 0
 Lims Batch ID: 117736 Lims Sample ID: 6
 Detector: Ch-A-06251114
 Method: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\gro14s.m
 Last Update: 27-Jun-2011 16:00:18 Calib Date: 03-Jun-2011 15:39:09
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Chi-svr07\ChromData\GC13-14\20110604-3820.b\06031114_025.d
 Limit Group: GCVOA_8015B_GRO
 Integrator: Genie
 Process Host: CHI-MS-OFF6A

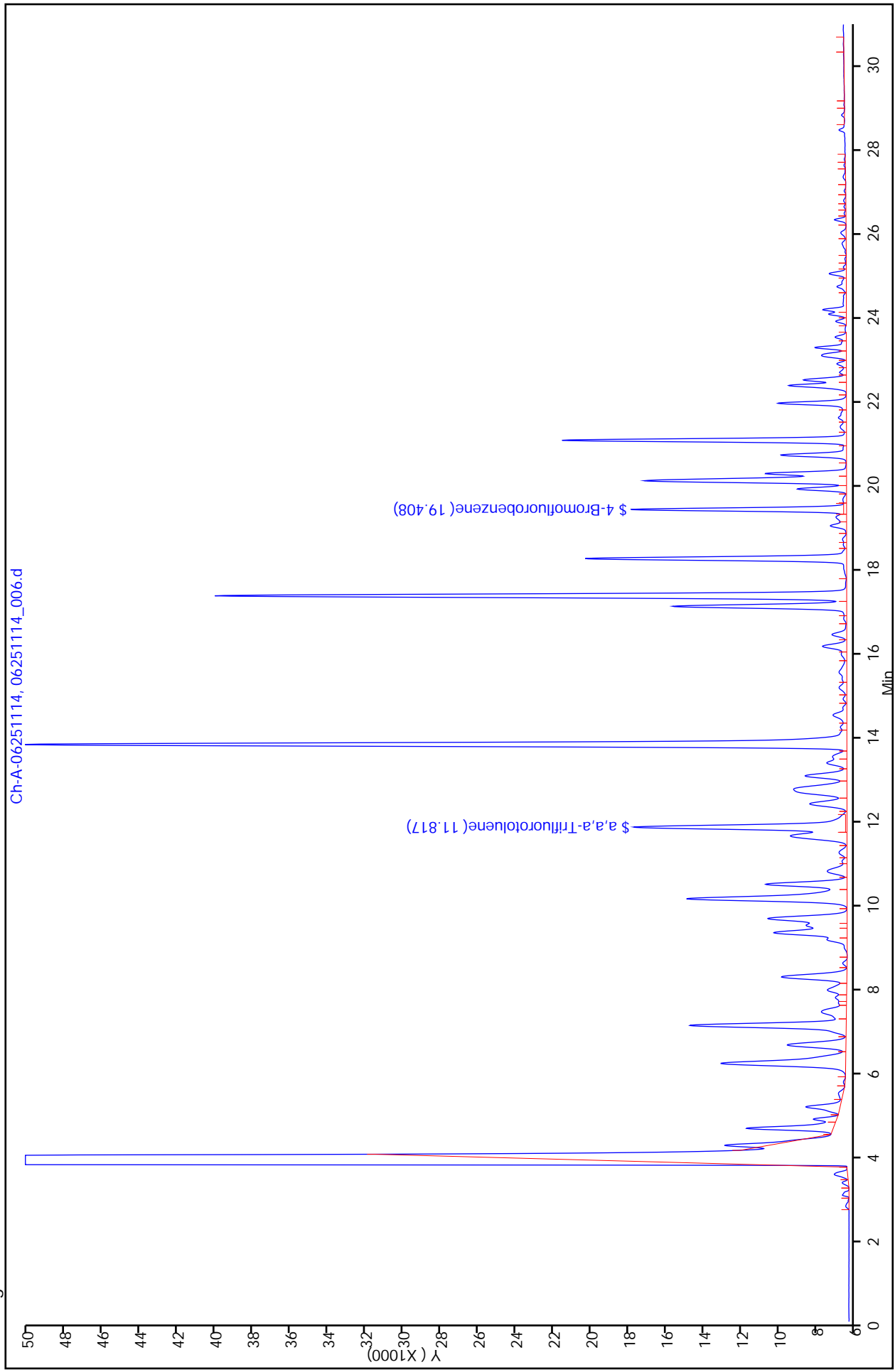
First Level Reviewer: manzanol

Date: 27-Jun-2011 16:00:51

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
\$ 4 a,a,a-Trifluorotoluene	11.817	11.834	-0.017	11096	20.6	
A 10 GRO	13.634	6.094 - 21.174		3009460	408.8	
A 5 C5-C12	14.746	4.536 - 24.955		3352307	404.3	
A 7 C6-C12	15.525	6.094 - 24.955		3238129	406.0	
A 6 C6-C10	16.268	6.094 - 26.442		3267337	405.8	
\$ 3 4-Bromofluorobenzene	19.408	19.421	-0.013	11138	20.1	

Report Date: 27-Jun-2011 16:00:51
Data File: \\Chi-svr07\ChromData\GC13-14\20110625-4214.b\06251114_006.d
Injection Date: 25-Jun-2011 23:58:05
Client ID: GCVOA_8015B_GRO
Lims Batch ID: 117736
Operator ID: estesw
Y Scaling: Method Defined: Set to Absolute Y Value

Chrom Revision: 1.2 03-Jun-2011 08:44:02
Limit Group: GCVOA_8015B_GRO
Instrument ID: INST13-14
Lims Sample ID: 6



GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 510-66868-1

SDG No.: _____

Instrument ID: INST13-14 Start Date: 06/03/2011 12:11

Analysis Batch Number: 115482 End Date: 06/03/2011 16:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 500-115482/2		06/03/2011 12:11	1	06031114_019.d	DB624 0.2 (mm)
IC 500-115482/3		06/03/2011 12:46	1	06031114_020.d	DB624 0.2 (mm)
IC 500-115482/4		06/03/2011 13:21	1	06031114_021.d	DB624 0.2 (mm)
IC 500-115482/5		06/03/2011 13:55	1	06031114_022.d	DB624 0.2 (mm)
IC 500-115482/6		06/03/2011 14:30	1	06031114_023.d	DB624 0.2 (mm)
IC 500-115482/7		06/03/2011 15:04	1	06031114_024.d	DB624 0.2 (mm)
IC 500-115482/8		06/03/2011 15:39	1	06031114_025.d	DB624 0.2 (mm)
ICV 500-115482/9		06/03/2011 16:13	1		DB624 0.2 (mm)

GASOLINE RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Chicago Job No.: 510-66868-1

SDG No.: _____

Instrument ID: INST13-14 Start Date: 06/25/2011 21:01

Analysis Batch Number: 117736 End Date: 06/26/2011 00:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/25/2011 21:01	1		DB624 0.2 (mm)
CCV 500-117736/2		06/25/2011 21:36	1	06251114_002.d	DB624 0.2 (mm)
MB 500-117736/3		06/25/2011 22:12	1	06251114_003.d	DB624 0.2 (mm)
LCS 500-117736/4		06/25/2011 22:47	1	06251114_004.d	DB624 0.2 (mm)
510-66868-1	SB0058:TK2FSS:165170	06/25/2011 23:22	1	06251114_005.d	DB624 0.2 (mm)
LCSD 500-117736/6		06/25/2011 23:58	1	06251114_006.d	DB624 0.2 (mm)
CCV 500-117736/7		06/26/2011 00:33	1	06251114_007.d	DB624 0.2 (mm)

GASOLINE RANGE ORGANICS BATCH WORKSHEET

Lab Name: TestAmerica Chicago Job No.: 510-66868-1

SDG No.: _____

Batch Number: 117679 Batch Start Date: 06/23/11 09:30 Batch Analyst: Estes, William R

Batch Method: 5035 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	AnalysisComment	
510-66868-A-1	SB0058:TK2FSS:16 5170	5035, 8015B	T	+032.495 g	38.0429 g	5.5479 g	5 mL	ap	

Batch Notes	

Basis	Basis Description
T	Total/NA

Method 8015B – DRO

**Diesel Range Organics (DRO) (GC) by
Method 8015B**

FORM II
DIESEL RANGE ORGANICS SURROGATE RECOVERY

Lab Name: TestAmerica Valparaiso

Job No.: 510-66868-1

SDG No.: _____

Matrix: Solid

Level: Low

GC Column (1): 8015 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBP1 #
SB0058:TK2FSS:1651 70	510-66868-1	46
	MB 510-82524/1-A	63
	LCS 510-82524/2-A	73
SB0058:TK2FSS:1651 70 MS	510-66868-1 MS	58
SB0058:TK2FSS:1651 70 MSD	510-66868-1 MSD	51

DBP = Decafluorobiphenyl

QC LIMITS
10-122

Column to be used to flag recovery values

FORM II 8015B

FORM III
DIESEL RANGE ORGANICS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: G5049.D

Lab ID: LCS 510-82524/2-A Client ID: _____

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
C8-C36	16.6	<20	69	30-146	

Column to be used to flag recovery and RPD values

FORM III
DIESEL RANGE ORGANICS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: G5051.D

Lab ID: 510-66868-1 MS Client ID: SB0058:TK2FSS:165170 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
C8-C36	16.9	<21	<20	52	58-117	F

Column to be used to flag recovery and RPD values

FORM III
DIESEL RANGE ORGANICS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1

SDG No.: _____

Matrix: Solid Level: Low Lab File ID: G5052.D

Lab ID: 510-66868-1 MSD Client ID: SB0058:TK2FSS:165170 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
C8-C36	16.8	<20	44	9	30	58-117	F

Column to be used to flag recovery and RPD values

FORM IV
DIESEL RANGE ORGANICS METHOD BLANK SUMMARY

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: MB 510-82524/1-A
 Matrix: Solid Date Extracted: 06/24/2011 07:50
 Lab File ID: (1) G5048.D Lab File ID: (2) _____
 Date Analyzed: (1) 06/24/2011 12:52 Date Analyzed: (2) _____
 Instrument ID: (1) SGCC Instrument ID: (2) _____
 GC Column: (1) 8015 ID: 0.25 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 510-82524/2-A	06/24/2011 13:25	
SB0058:TK2FSS:165170	510-66868-1	06/24/2011 13:57	
SB0058:TK2FSS:165170 MS	510-66868-1 MS	06/24/2011 14:29	
SB0058:TK2FSS:165170 MSD	510-66868-1 MSD	06/24/2011 15:02	

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Client Sample ID: SB0058:TK2FSS:165170 Lab Sample ID: 510-66868-1
 Matrix: Solid Lab File ID: G5050.D
 Analysis Method: 8015B Date Collected: 06/23/2011 09:30
 Extraction Method: 3541 Date Extracted: 06/24/2011 07:50
 Sample wt/vol: 30.51(g) Date Analyzed: 06/24/2011 13:57
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: 8015 (ERO/DRO) ID: 0.25(mm)
 % Moisture: 4.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 82538 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00524	C8-C36	<21		21	3.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
434-90-2	Decafluorobiphenyl	46		10-122

TestAmerica Laboratories
Target Compound Quantitation Report

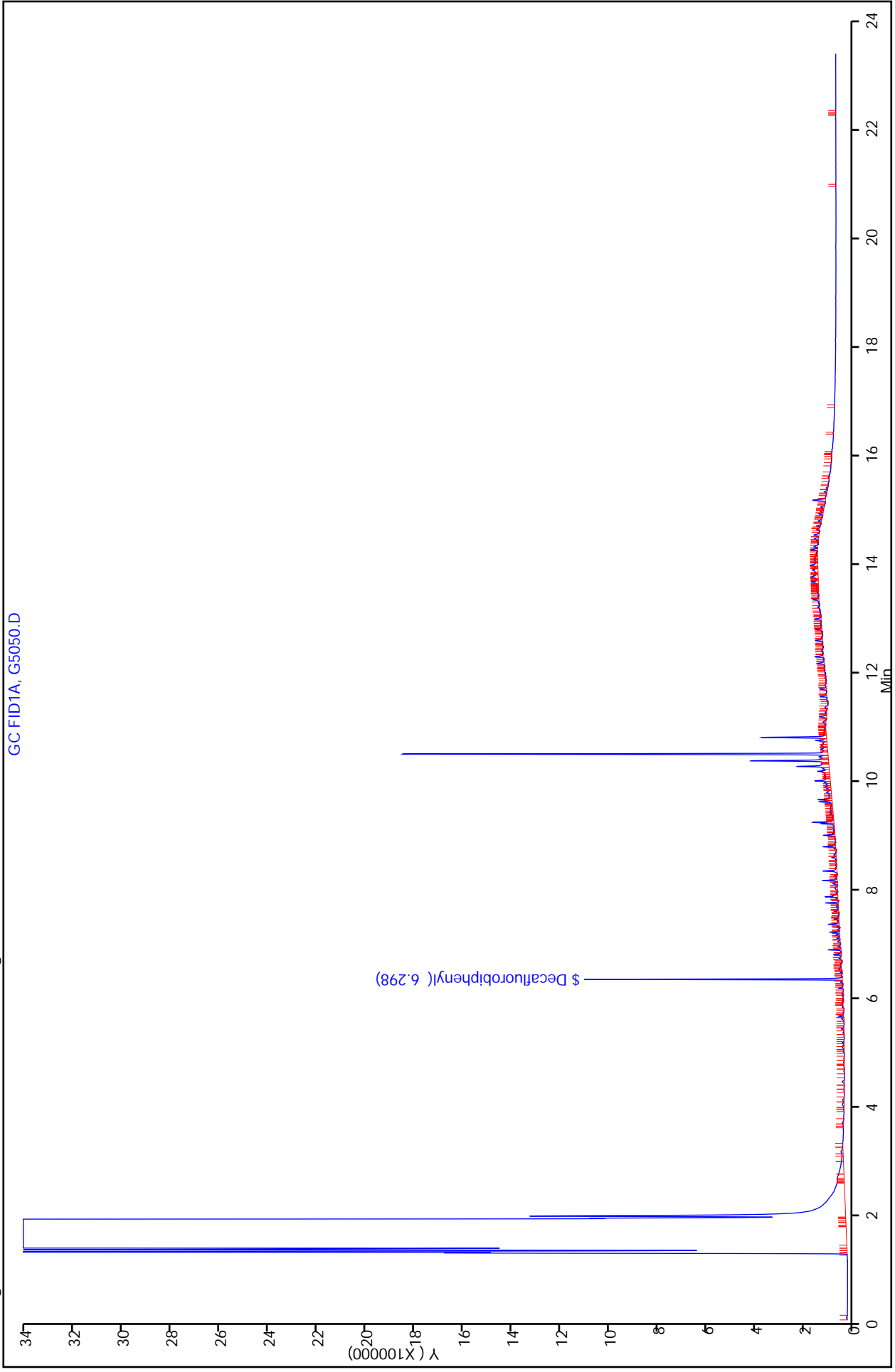
Data File: \\valsvr08\ChromData\SGCC\20110624-5101.b\G5050.D
 Lims ID: 510-66868-E-1-A Client ID: SB0058:TK8FSS:165170
 Inject. Date: 24-Jun-2011 13:57:26 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 510-66868-e-1-a
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 8
 Lims Batch ID: 82538 Lims Sample ID: 8
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110624-5101.b\DRO_8015.m
 Last Update: 24-Jun-2011 12:18:50 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 24-Jun-2011 15:10:30

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.298	6.313	-0.015	934109	9.28	
A 3 C8-C36	9.536	2.999 - 16.072		44282215	225.6	

Report Date: 24-Jun-2011 15:10:30 Chrom Revision: 1.2 03-Jun-2011 08:44:02
Data File: \\valsrv08\ChromData\SGCC\20110624-5101.b\G5050.D
Injection Date: 24-Jun-2011 13:57:26 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: SB0058:TK8FSS:165170 Instrument ID: SGCC
Lims Batch ID: 82538 Lims Sample ID: 8
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



FORM VI
 DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
 EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1 Analy Batch No.: 78704

SDG No.: _____

Instrument ID: SGCC GC Column: 8015 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2011 13:58 Calibration End Date: 04/08/2011 17:47 Calibration ID: 3878

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 510-78704/3	G4398.D
Level 2	STD 510-78704/4	G4399.D
Level 3	STD 510-78704/5	G4400.D
Level 4	STD 510-78704/6	G4401.D
Level 5	STD 510-78704/7	G4402.D
Level 6	STD 510-78704/8	G4403.D
Level 7	STD 510-78704/9	G4404.D
Level 8	STD 510-78704/10	G4405.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
C8-C28	8.380	8.380	8.620	8.380	8.380	8.380	8.380	8.380			3.013 - 13.748	8.410
Diesel Range Organics [C10-C28]	9.549	9.549	9.648	9.549	9.549	9.549	9.549	9.549			5.349 - 13.748	9.561
C8-C36	9.553	9.553	9.793	9.553	9.553	9.553	9.553	9.553			3.013 - 16.093	9.583
Decafluorobiphenyl	6.313	6.316	6.318	6.321	6.321	6.325	6.325				6.263 - 6.363	6.320

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1 Analy Batch No.: 78704

SDG No.: _____

Instrument ID: SGCC GC Column: 8015 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2011 13:58 Calibration End Date: 04/08/2011 17:47 Calibration ID: 3878

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 510-78704/3	G4398.D
Level 2	STD 510-78704/4	G4399.D
Level 3	STD 510-78704/5	G4400.D
Level 4	STD 510-78704/6	G4401.D
Level 5	STD 510-78704/7	G4402.D
Level 6	STD 510-78704/8	G4403.D
Level 7	STD 510-78704/9	G4404.D
Level 8	STD 510-78704/10	G4405.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
C8-C28	208552 177616	186856 189395	180039 191202	184789 184957	Ave		187925.690			5.0		20.0				
Diesel Range Organics [C10-C28]	184874 166949	173406 178194	167261 180147	173262 174107	Ave		174774.921			3.5		20.0				
C8-C36	248991 178620	203411 189984	185387 191749	186983 185511	Ave		196329.491			11.0		20.0				
Decafluorobiphenyl	95854 99756	96123 104657	98068 108593	101284	Ave		100619.368			4.6		20.0				

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
DIESEL RANGE ORGANICS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1 Analy Batch No.: 78704

SDG No.: _____

Instrument ID: SGCC GC Column: 8015 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/08/2011 13:58 Calibration End Date: 04/08/2011 17:47 Calibration ID: 3878

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 510-78704/3	G4398.D
Level 2	STD 510-78704/4	G4399.D
Level 3	STD 510-78704/5	G4400.D
Level 4	STD 510-78704/6	G4401.D
Level 5	STD 510-78704/7	G4402.D
Level 6	STD 510-78704/8	G4403.D
Level 7	STD 510-78704/9	G4404.D
Level 8	STD 510-78704/10	G4405.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
C8-C28	Ave	10427518 284088930	18685384 382399636	45009407 554865626	92393384	177614244	50.0 1500	100.0 2000	250 3000	500	1000
Diesel Range Organics [C10-C28]	Ave	9243628 267287664	17340394 360290087	41814820 522315261	86630236	166947225	50.0 1500	100.0 2000	250 3000	500	1000
C8-C36	Ave	12449403 284972842	20340864 383494590	46346394 556526104	93490712	178618628	50.0 1500	100.0 2000	250 3000	500	1000
Decafluorobiphenyl	Ave	4792678 41862788	9612323 54296529	19613629	25321122	29926837	50.0 400	100 500	200	250	300

Curve Type Legend:

Ave = Average

TestAmerica Laboratories
Target Compound Quantitation Report

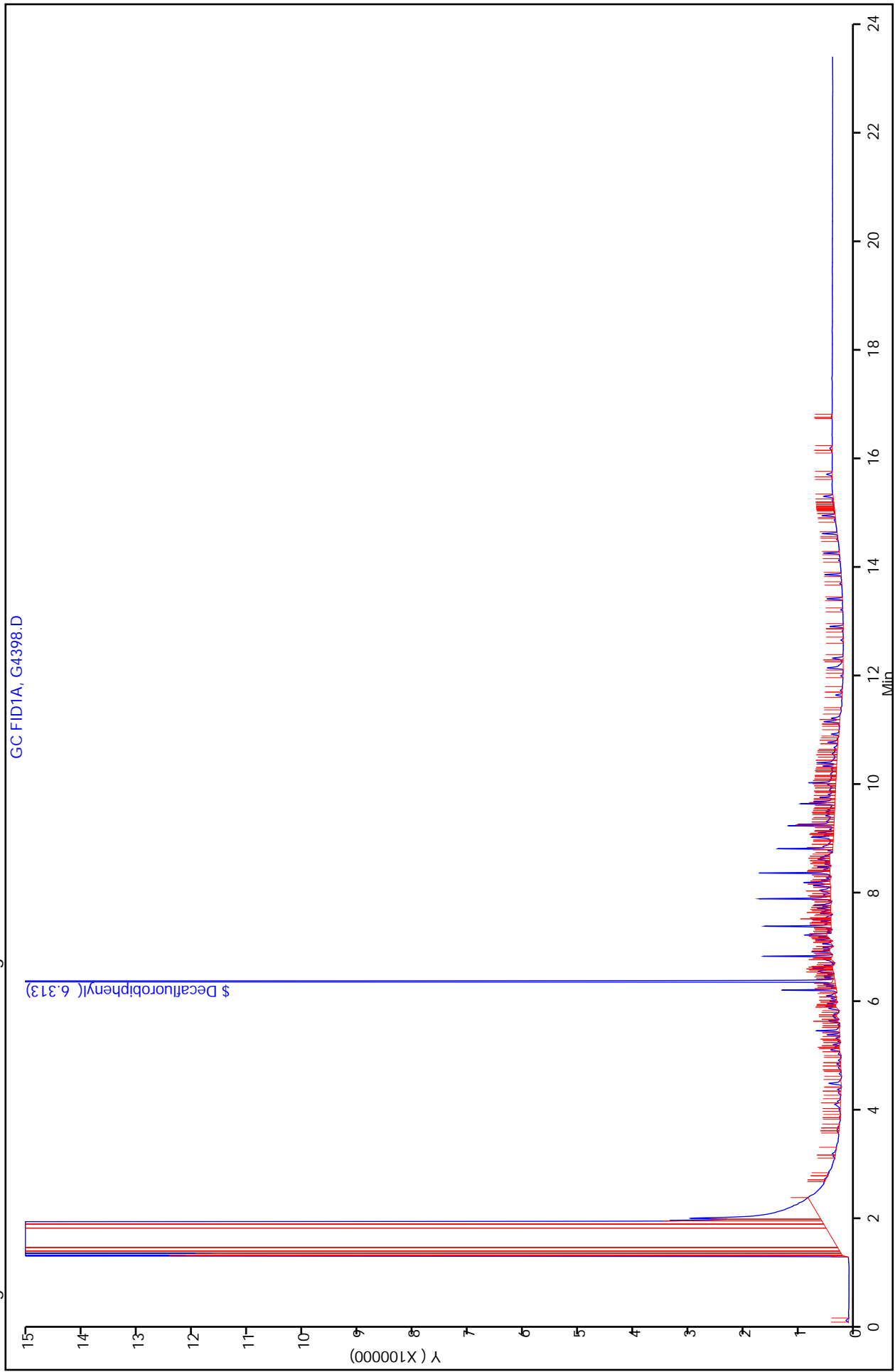
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 Lims ID: STD 50 Client ID:
 Inject. Date: 08-Apr-2011 13:58:57 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: std 50
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 6
 Lims Batch ID: 78704 Lims Sample ID: 3
 Sublist: chrom-DRO_8015*sub7
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110408-4684.b\DRO_8015.m
 Last Update: 08-Apr-2011 16:00:24 Calib Date: 08-Apr-2011 15:04:08
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4400.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 08-Apr-2011 16:00:24

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.313	6.313	0.0	4792678	49.6	
A 10 C8-C28	8.380	3.013 - 13.748		10427518	54.6	
A 4 C10-C28	9.549	5.349 - 13.748		9243628	53.0	
A 3 C8-C36	9.553	3.013 - 16.093		12449403	58.8	

Report Date: 08-Apr-2011 16:00:24 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\valsrv08\ChromData\SGCC\20110408-4684.b\G4398.D
Injection Date: 08-Apr-2011 13:58:57 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 78704 Lims Sample ID: 3
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



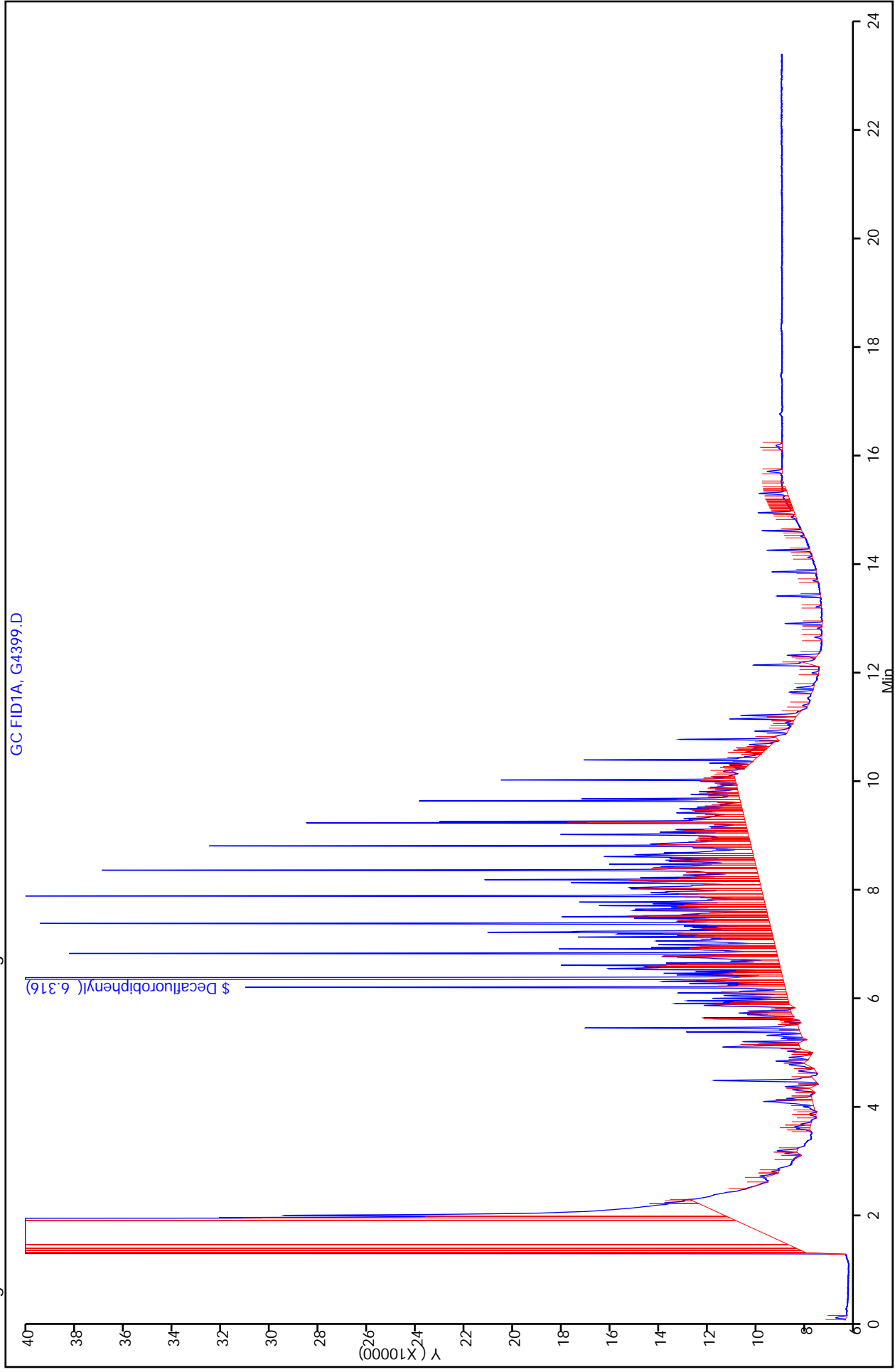
TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4399.D
 Lims ID: STD 100 Client ID:
 Inject. Date: 08-Apr-2011 14:31:33 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: std 100
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 7
 Lims Batch ID: 78704 Lims Sample ID: 4
 Sublist: chrom-DRO_8015*sub7
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110408-4684.b\DRO_8015.m
 Last Update: 08-Apr-2011 16:01:09 Calib Date: 08-Apr-2011 15:04:08
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4400.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc Date: 08-Apr-2011 16:01:09

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.316	6.313	0.003	9612323	99.4	
A 10 C8-C28	8.380	3.013 - 13.748		18685384	97.4	
A 4 C10-C28	9.549	5.349 - 13.748		17340394	99.0	
A 3 C8-C36	9.553	3.013 - 16.093		20340864	95.7	

Report Date: 08-Apr-2011 16:01:09 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\valsrv08\ChromData\SGCC\20110408-4684.b\G4399.D
Injection Date: 08-Apr-2011 14:31:33 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 78704 Lims Sample ID: 4
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



TestAmerica Laboratories
Target Compound Quantitation Report

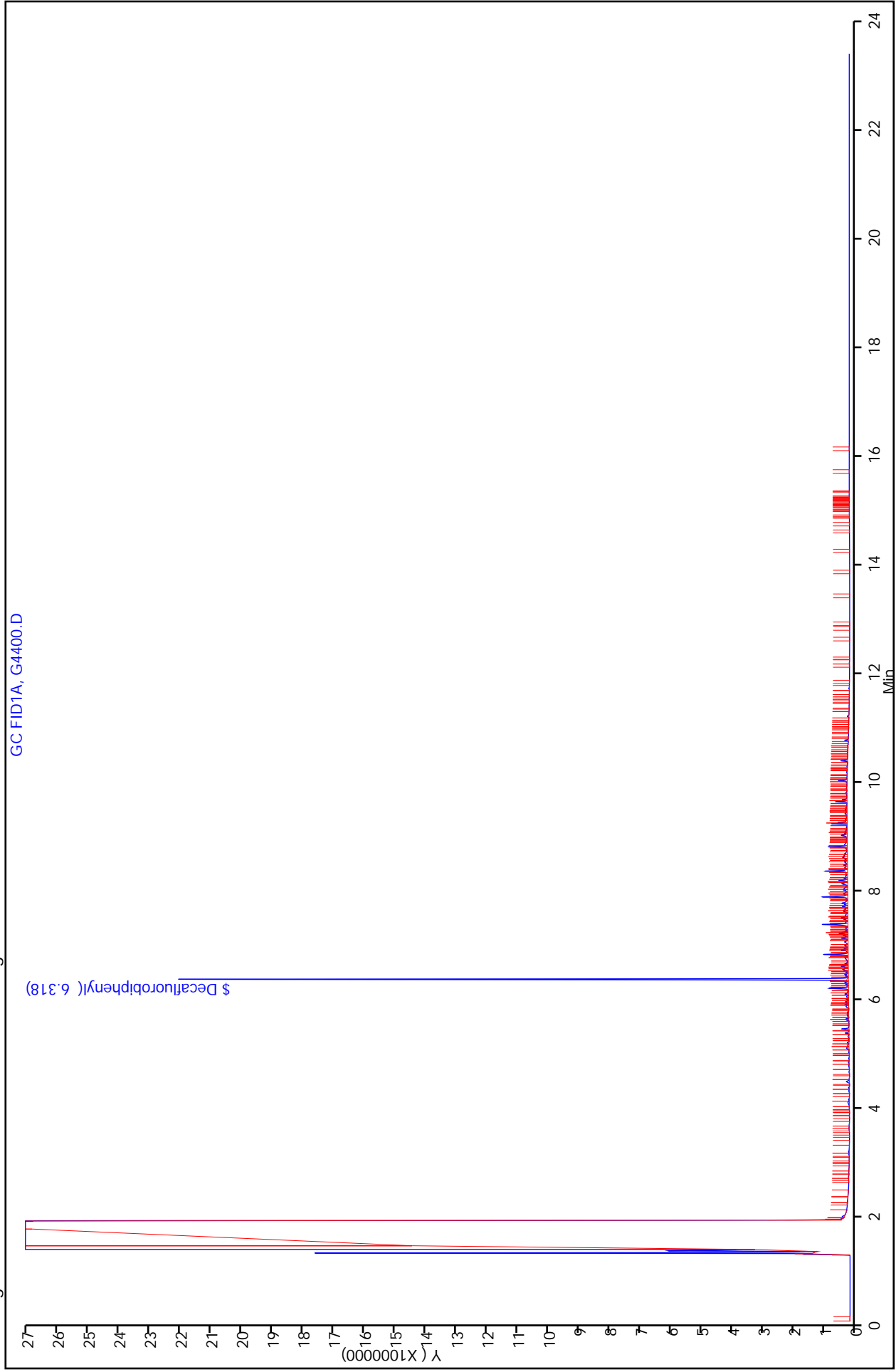
Data File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4400.D
 Lims ID: STD 250 Client ID:
 Inject. Date: 08-Apr-2011 15:04:08 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: std 250
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 8
 Lims Batch ID: 78704 Lims Sample ID: 5
 Sublist: chrom-DRO_8015*sub7
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110408-4684.b\DRO_8015.m
 Last Update: 08-Apr-2011 16:01:25 Calib Date: 08-Apr-2011 15:04:08
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4400.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 08-Apr-2011 16:01:25

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.318	6.313	0.005	19613629	202.9	
A 10 C8-C28	8.620	3.013 - 13.748		45009407	234.6	
A 4 C10-C28	9.648	5.349 - 13.748		41814820	238.7	
A 3 C8-C36	9.793	3.013 - 16.093		46346394	218.0	

Report Date: 08-Apr-2011 16:01:25 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\valsrv08\ChromData\SGCC\20110408-4684.b\G4400.D
Injection Date: 08-Apr-2011 15:04:08 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 78704 Lims Sample ID: 5
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



TestAmerica Laboratories
Target Compound Quantitation Report

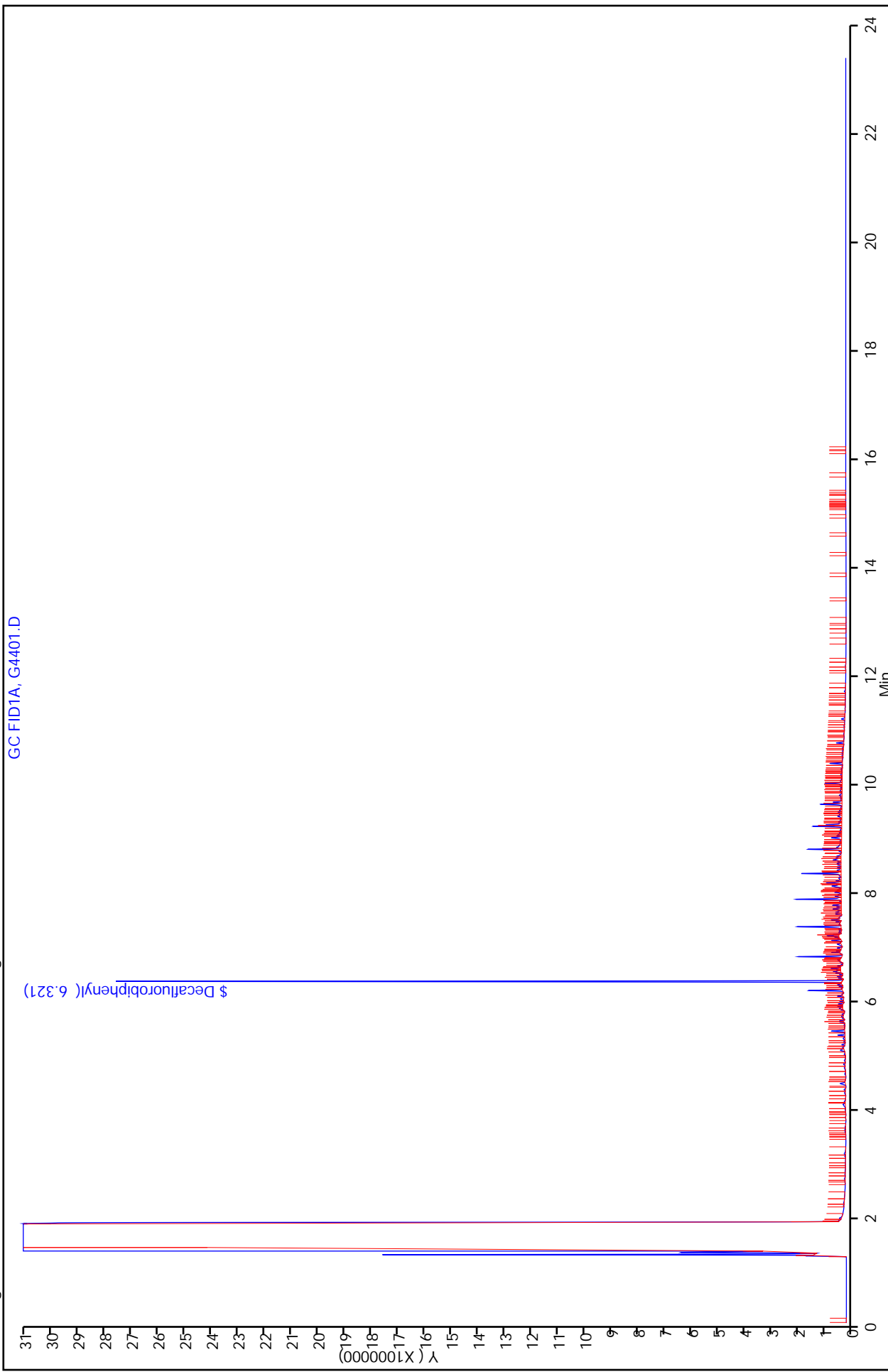
Data File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4401.D
 Lims ID: STD 500 Client ID:
 Inject. Date: 08-Apr-2011 15:36:50 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: std 500
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 9
 Lims Batch ID: 78704 Lims Sample ID: 6
 Sublist: chrom-DRO_8015*sub7
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110408-4684.b\DRO_8015.m
 Last Update: 08-Apr-2011 16:02:21 Calib Date: 08-Apr-2011 15:36:50
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4401.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 08-Apr-2011 16:02:21

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.321	6.313	0.008	25321122	258.8	
A 10 C8-C28	8.380	3.013 - 13.748		92393384	486.1	
A 4 C10-C28	9.549	5.349 - 13.748		86630236	495.9	
A 3 C8-C36	9.553	3.013 - 16.093		93490712	453.4	

Report Date: 08-Apr-2011 16:02:21 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\vaisvr08\ChromData\SGCC\20110408-4684.b\G4401.D
Injection Date: 08-Apr-2011 15:36:50 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 78704 Lims Sample ID: 6
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



TestAmerica Laboratories
Target Compound Quantitation Report

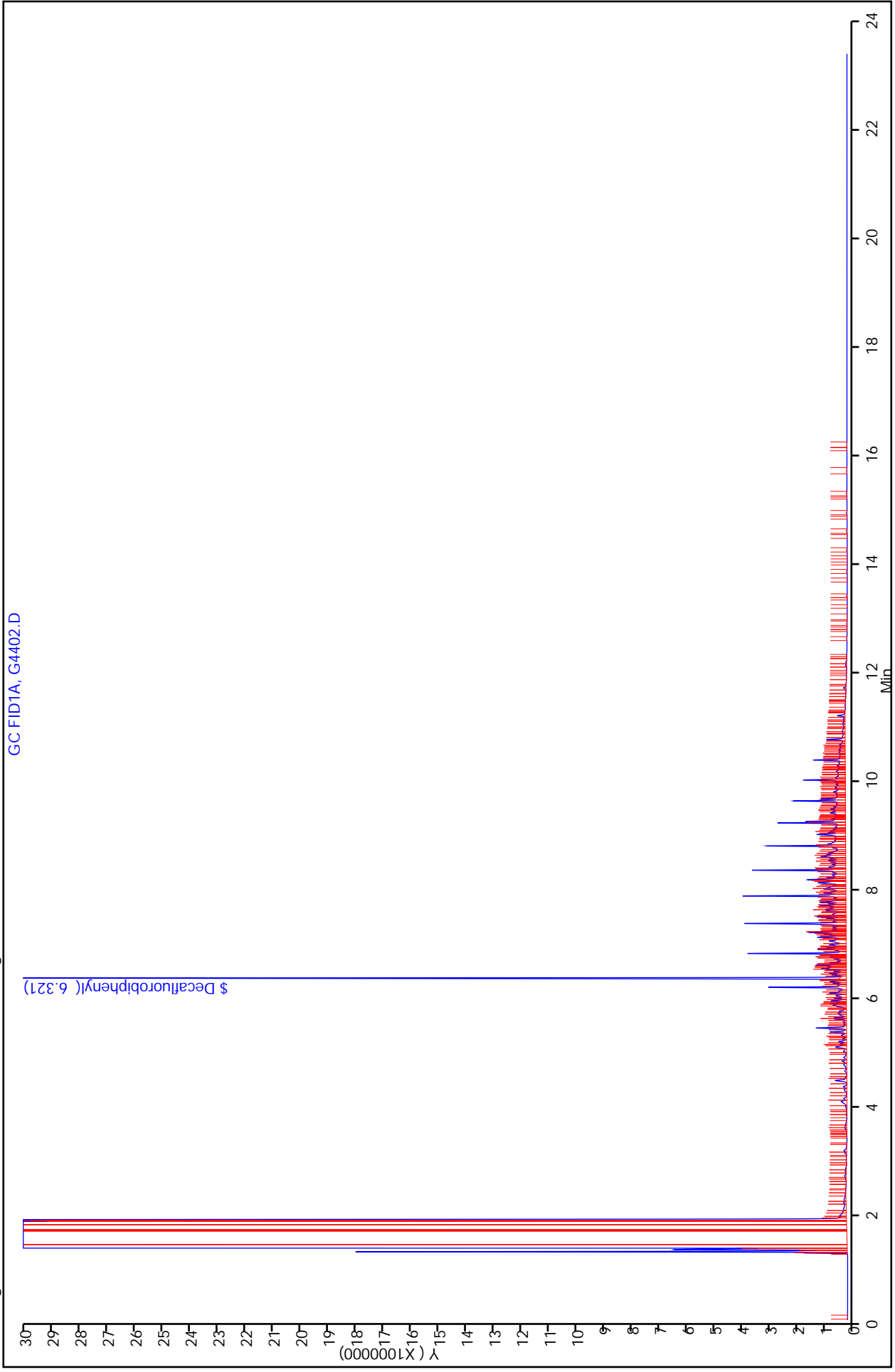
Data File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4402.D
 Lims ID: STD 1000 Client ID:
 Inject. Date: 08-Apr-2011 16:09:45 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: std 1000
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 10
 Lims Batch ID: 78704 Lims Sample ID: 7
 Sublist: chrom-DRO_8015*sub7
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110408-4684.b\DRO_8015.m
 Last Update: 08-Apr-2011 19:52:27 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 08-Apr-2011 19:52:27

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.321	6.313	0.008	29926837	297.4	
A 10 C8-C28	8.380	3.013 - 13.748		177614244	945.5	
A 4 C10-C28	9.549	5.349 - 13.748		166947225	955.6	
A 3 C8-C36	9.553	3.013 - 16.093		178618628	910.1	

Report Date: 08-Apr-2011 19:52:27 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4402.D
Injection Date: 08-Apr-2011 16:09:45 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 78704 Lims Sample ID: 7
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



TestAmerica Laboratories
Target Compound Quantitation Report

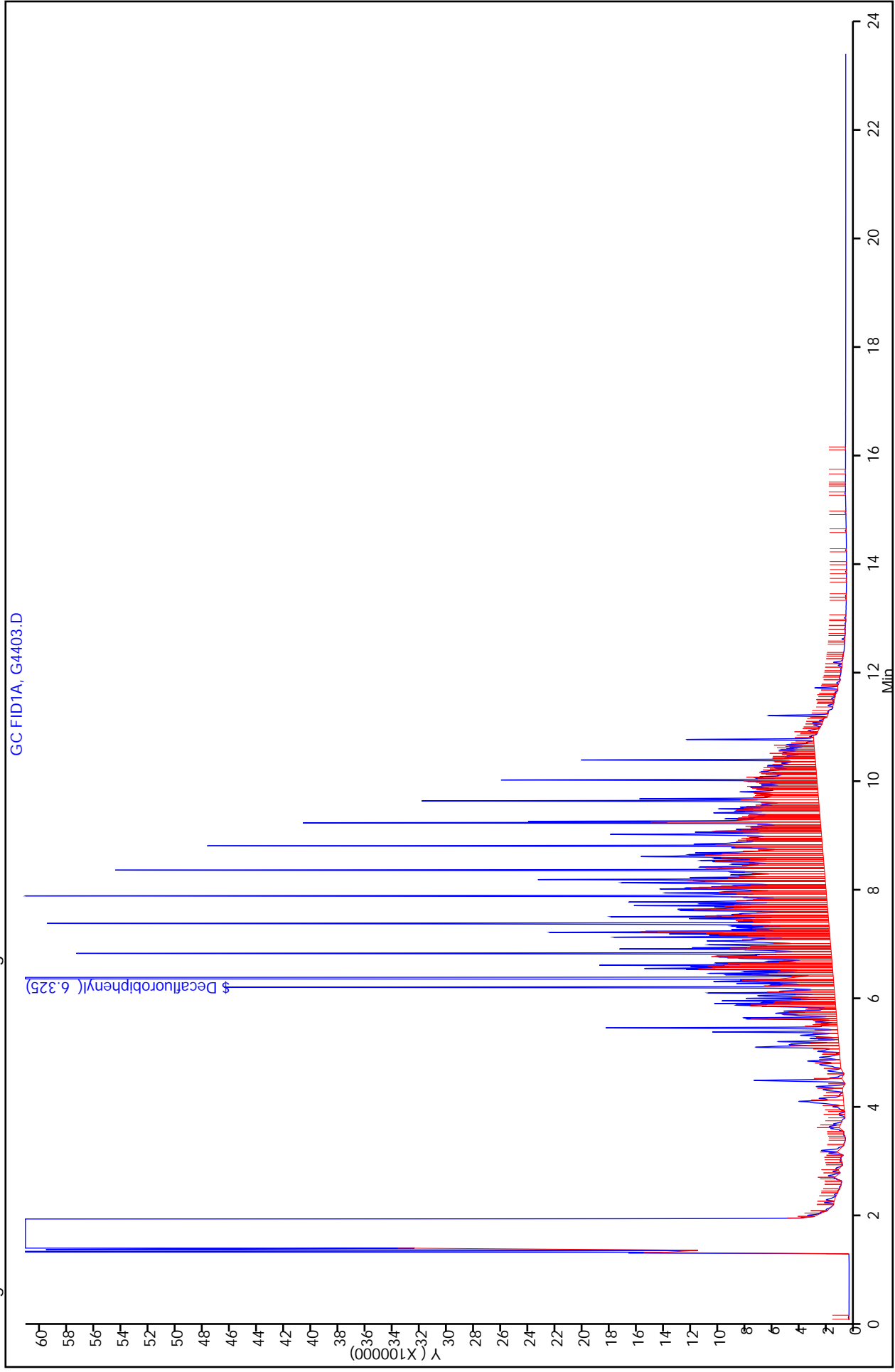
Data File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4403.D
 Lims ID: STD 1500 Client ID:
 Inject. Date: 08-Apr-2011 16:42:40 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: std 1500
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 11
 Lims Batch ID: 78704 Lims Sample ID: 8
 Sublist: chrom-DRO_8015*sub7
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110408-4684.b\DRO_8015.m
 Last Update: 08-Apr-2011 19:52:38 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 08-Apr-2011 19:52:38

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.325	6.313	0.012	41862788	416.1	
A 10 C8-C28	8.380	3.013 - 13.748		284088930	1512.3	
A 4 C10-C28	9.549	5.349 - 13.748		267287664	1530.0	
A 3 C8-C36	9.553	3.013 - 16.093		284972842	1452.0	

Report Date: 08-Apr-2011 19:52:38 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\valsrv08\ChromData\SGCC\20110408-4684.b\G4403.D
Injection Date: 08-Apr-2011 16:42:40 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 78704 Lims Sample ID: 8
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



TestAmerica Laboratories
Target Compound Quantitation Report

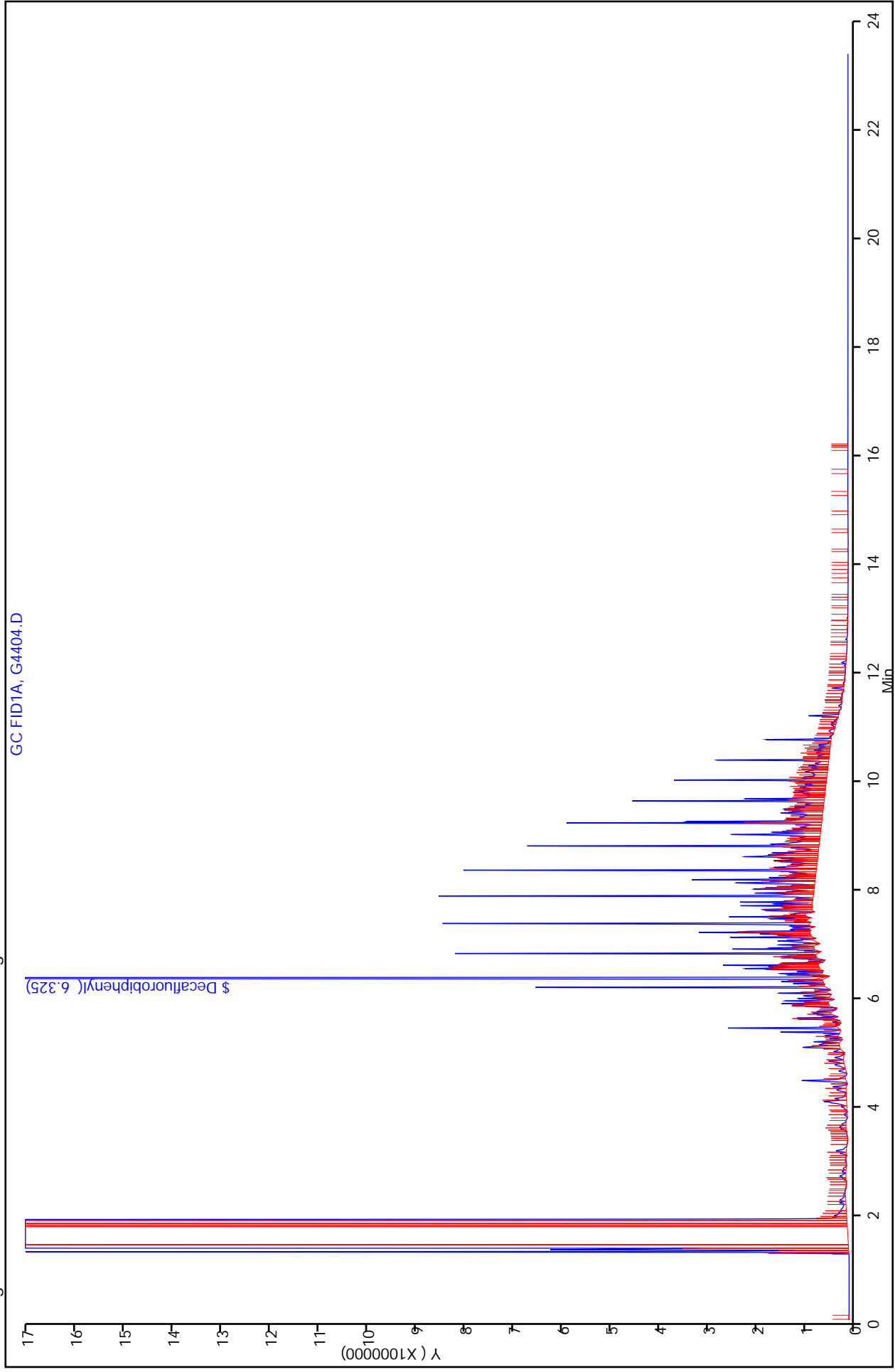
Data File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4404.D
 Lims ID: STD 2000 Client ID:
 Inject. Date: 08-Apr-2011 17:15:18 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 7
 Sample ID: std 2000
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 12
 Lims Batch ID: 78704 Lims Sample ID: 9
 Sublist: chrom-DRO_8015*sub7
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110408-4684.b\DRO_8015.m
 Last Update: 08-Apr-2011 19:52:50 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 08-Apr-2011 19:52:50

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.325	6.313	0.012	54296529	539.6	
A 10 C8-C28	8.380	3.013 - 13.748		382399636	2035.6	
A 4 C10-C28	9.549	5.349 - 13.748		360290087	2062.3	
A 3 C8-C36	9.553	3.013 - 16.093		383494590	1954.0	

Report Date: 08-Apr-2011 19:52:50 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\valsrv08\ChromData\SGCC\20110408-4684.b\G4404.D
Injection Date: 08-Apr-2011 17:15:18 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 78704 Lims Sample ID: 9
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



TestAmerica Laboratories
Target Compound Quantitation Report

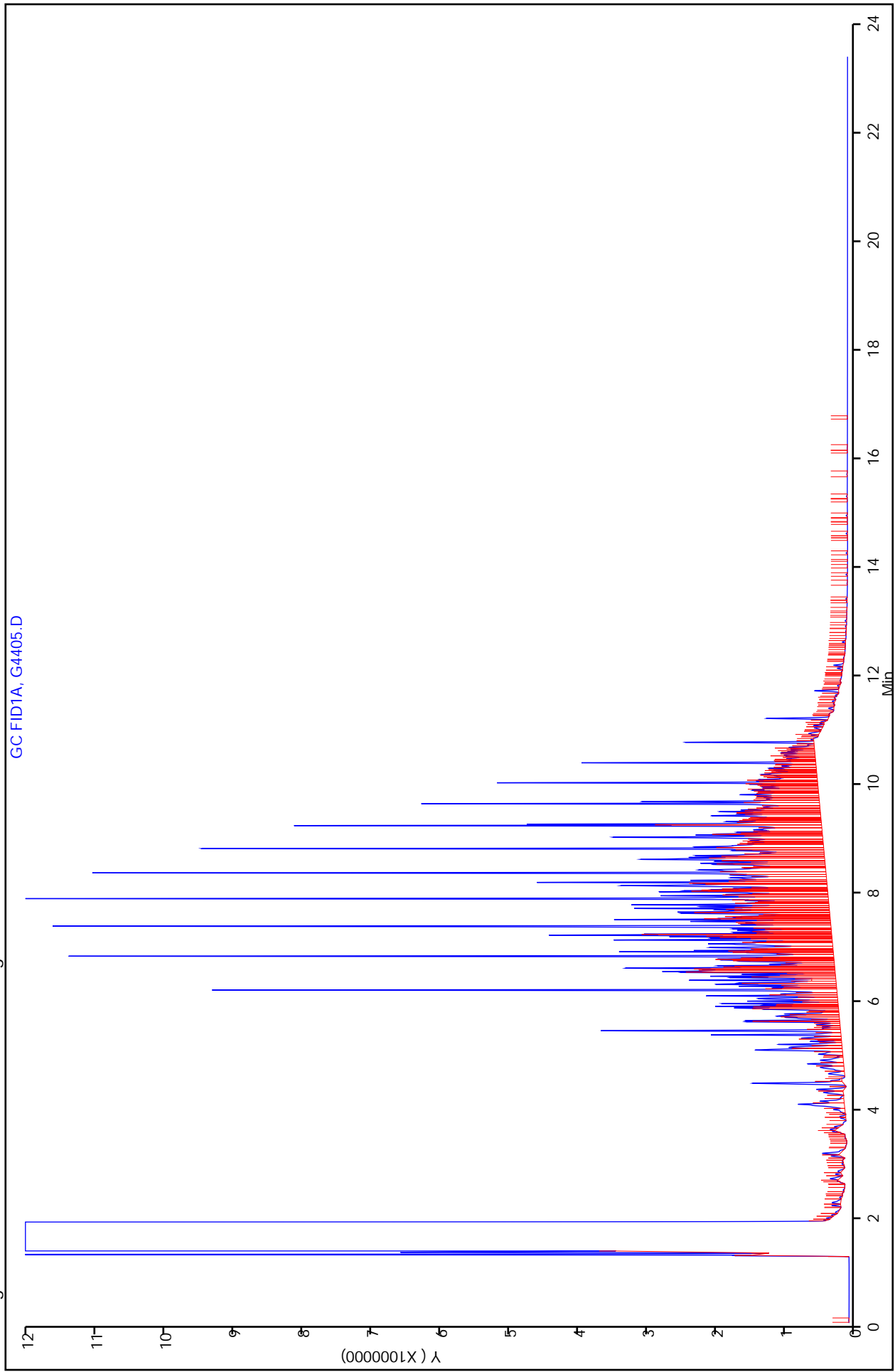
Data File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Lims ID: STD 3000 Client ID:
 Inject. Date: 08-Apr-2011 17:47:57 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 8
 Sample ID: std 3000
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 13
 Lims Batch ID: 78704 Lims Sample ID: 10
 Sublist: chrom-DRO_8015*sub7
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110408-4684.b\DRO_8015.m
 Last Update: 08-Apr-2011 19:53:23 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 08-Apr-2011 19:53:23

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl		6.313				
A 10 C8-C28	8.380	3.013 - 13.748		554865626	2952.6	
A 4 C10-C28	9.549	5.349 - 13.748		522315261	2988.5	
A 3 C8-C36	9.553	3.013 - 16.093		556526104	2834.7	

Report Date: 08-Apr-2011 19:53:23 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\valsrv08\ChromData\SGCC\20110408-4684.b\G4405.D
Injection Date: 08-Apr-2011 17:47:57 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 78704 Lims Sample ID: 10
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: CCV 510-82538/3 Calibration Date: 06/24/2011 11:15
 Instrument ID: SGCC Calib Start Date: 04/08/2011 13:58
 GC Column: 8015 (ERO/DRO) ID: 0.25 (mm) Calib End Date: 04/08/2011 17:47
 Lab File ID: G5045.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C8-C28	Ave	187926	194.3		1030000	995000	-99.9*	15.0
Diesel Range Organics [C10-C28]	Ave	174775	179616		1020	995	2.8	15.0
C8-C36	Ave	196329	196998		998	995	0.3	15.0
Decafluorobiphenyl	Ave	100619	110897		66.1	60.0	10.2	15.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: CCV 510-82538/3 Calibration Date: 06/24/2011 11:15
 Instrument ID: SGCC Calib Start Date: 04/08/2011 13:58
 GC Column: 8015 (ERO/DRO) ID: 0.25 (mm) Calib End Date: 04/08/2011 17:47
 Lab File ID: G5045.D

Analyte	RT	RT WINDOW	
		TO	FROM
C8-C28	8.36	3.00	13.72
Diesel Range Organics [C10-C28]	9.54	5.35	13.72
C8-C36	9.54	3.00	16.07
Decafluorobiphenyl	6.30	6.26	6.36

TestAmerica Laboratories
Target Compound Quantitation Report

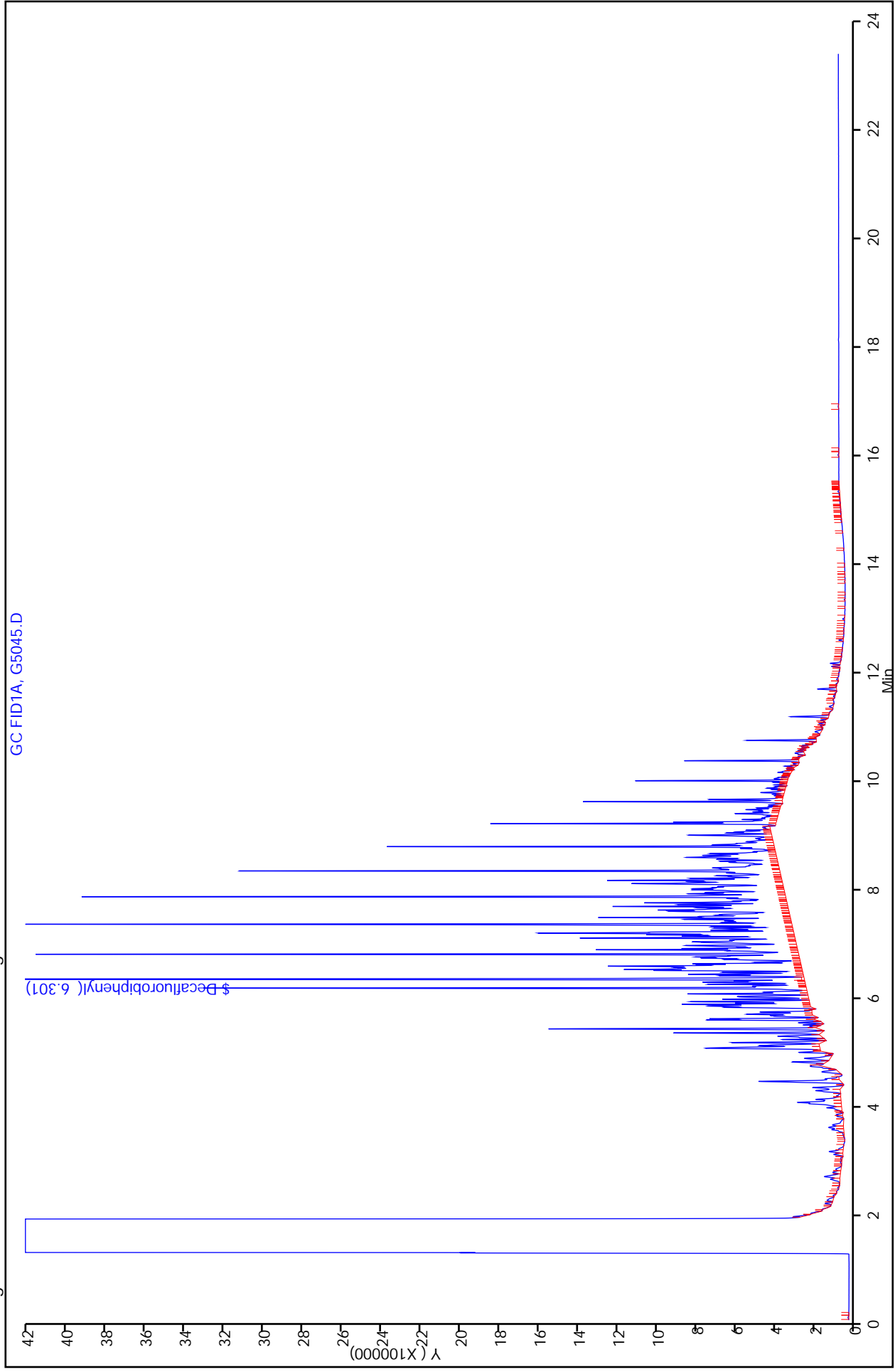
Data File: \\valsvr08\ChromData\SGCC\20110624-5101.b\G5045.D
 Lims ID: CCV Client ID:
 Inject. Date: 24-Jun-2011 11:15:45 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: CCV
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 3
 Lims Batch ID: 82538 Lims Sample ID: 3
 Sublist: chrom-DRO_8015*sub8
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110624-5101.b\DRO_8015.m
 Last Update: 24-Jun-2011 12:18:36 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 24-Jun-2011 12:18:36

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.301	6.313	-0.012	6653813	66.1	
A 10 C8-C28	8.362	2.999 - 13.724		193307278	1028.6	
A 4 C10-C28	9.535	5.346 - 13.724		178718032	1022.6	
A 3 C8-C36	9.536	2.999 - 16.072		196013184	998.4	

Report Date: 24-Jun-2011 12:18:36 Chrom Revision: 1.2 03-Jun-2011 08:44:02
Data File: \\valsrv08\ChromData\SGCC\20110624-5101.b\G5045.D
Injection Date: 24-Jun-2011 11:15:45 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 82538 Lims Sample ID: 3
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: CCV 510-82538/12 Calibration Date: 06/24/2011 16:07
 Instrument ID: SGCC Calib Start Date: 04/08/2011 13:58
 GC Column: 8015 (ERO/DRO) ID: 0.25 (mm) Calib End Date: 04/08/2011 17:47
 Lab File ID: G5054.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
C8-C28	Ave	187926	189.4		1000000	995000	-99.9*	15.0
Diesel Range Organics [C10-C28]	Ave	174775	174912		996	995	0.0	15.0
C8-C36	Ave	196329	192265		974	995	-2.1	15.0
Decafluorobiphenyl	Ave	100619	110887		66.1	60.0	10.2	15.0

FORM VII
DIESEL RANGE ORGANICS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Lab Sample ID: CCV 510-82538/12 Calibration Date: 06/24/2011 16:07
 Instrument ID: SGCC Calib Start Date: 04/08/2011 13:58
 GC Column: 8015 (ERO/DRO) ID: 0.25 (mm) Calib End Date: 04/08/2011 17:47
 Lab File ID: G5054.D

Analyte	RT	RT WINDOW	
		TO	FROM
C8-C28	8.36	3.00	13.72
Diesel Range Organics [C10-C28]	9.54	5.35	13.72
C8-C36	9.54	3.00	16.07
Decafluorobiphenyl	6.30	6.26	6.36

TestAmerica Laboratories
Target Compound Quantitation Report

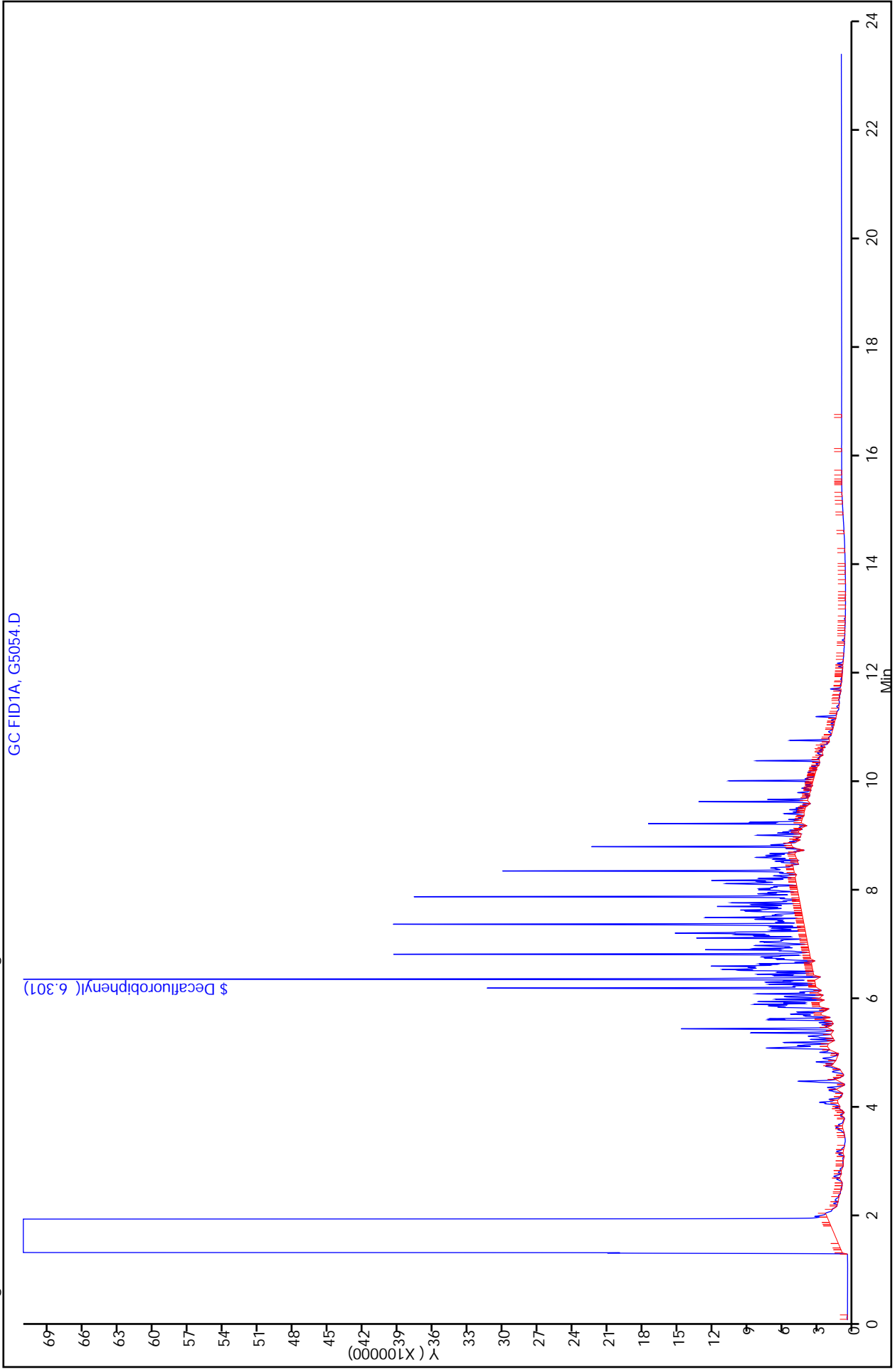
Data File: \\valsvr08\ChromData\SGCC\20110624-5101.b\G5054.D
 Lims ID: ccv Client ID:
 Inject. Date: 24-Jun-2011 16:07:22 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: ccv
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 4
 Lims Batch ID: 82538 Lims Sample ID: 12
 Sublist: chrom-DRO_8015*sub8
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110624-5101.b\DRO_8015.m
 Last Update: 24-Jun-2011 19:26:20 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 24-Jun-2011 19:26:20

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.301	6.313	-0.012	6653249	66.1	
A 10 C8-C28	8.362	2.999 - 13.724		188442337	1002.7	
A 4 C10-C28	9.535	5.346 - 13.724		174037079	995.8	
A 3 C8-C36	9.536	2.999 - 16.072		191303369	974.4	

Report Date: 24-Jun-2011 19:26:20 Chrom Revision: 1.2 03-Jun-2011 08:44:02
Data File: \\valsrv08\ChromData\SGCC\20110624-5101.b\G5054.D
Injection Date: 24-Jun-2011 16:07:22 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 82538 Lims Sample ID: 12
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 510-82524/1-A
 Matrix: Solid Lab File ID: G5048.D
 Analysis Method: 8015B Date Collected: _____
 Extraction Method: 3541 Date Extracted: 06/24/2011 07:50
 Sample wt/vol: 30(g) Date Analyzed: 06/24/2011 12:52
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: 8015 (ERO/DRO) ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 82538 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00524	C8-C36	<20		20	2.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
434-90-2	Decafluorobiphenyl	63		10-122

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\valsvr08\ChromData\SGCC\20110624-5101.b\G5048.D
 Lims ID: MB 510-82524/1-A Client ID:
 Inject. Date: 24-Jun-2011 12:52:40 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: mb 510-82524/1-a
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 6
 Lims Batch ID: 82538 Lims Sample ID: 6
 Detector: GC FID1A

Method: \\valsvr08\ChromData\SGCC\20110624-5101.b\DRO_8015.m
 Last Update: 24-Jun-2011 12:18:50 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 24-Jun-2011 14:11:29

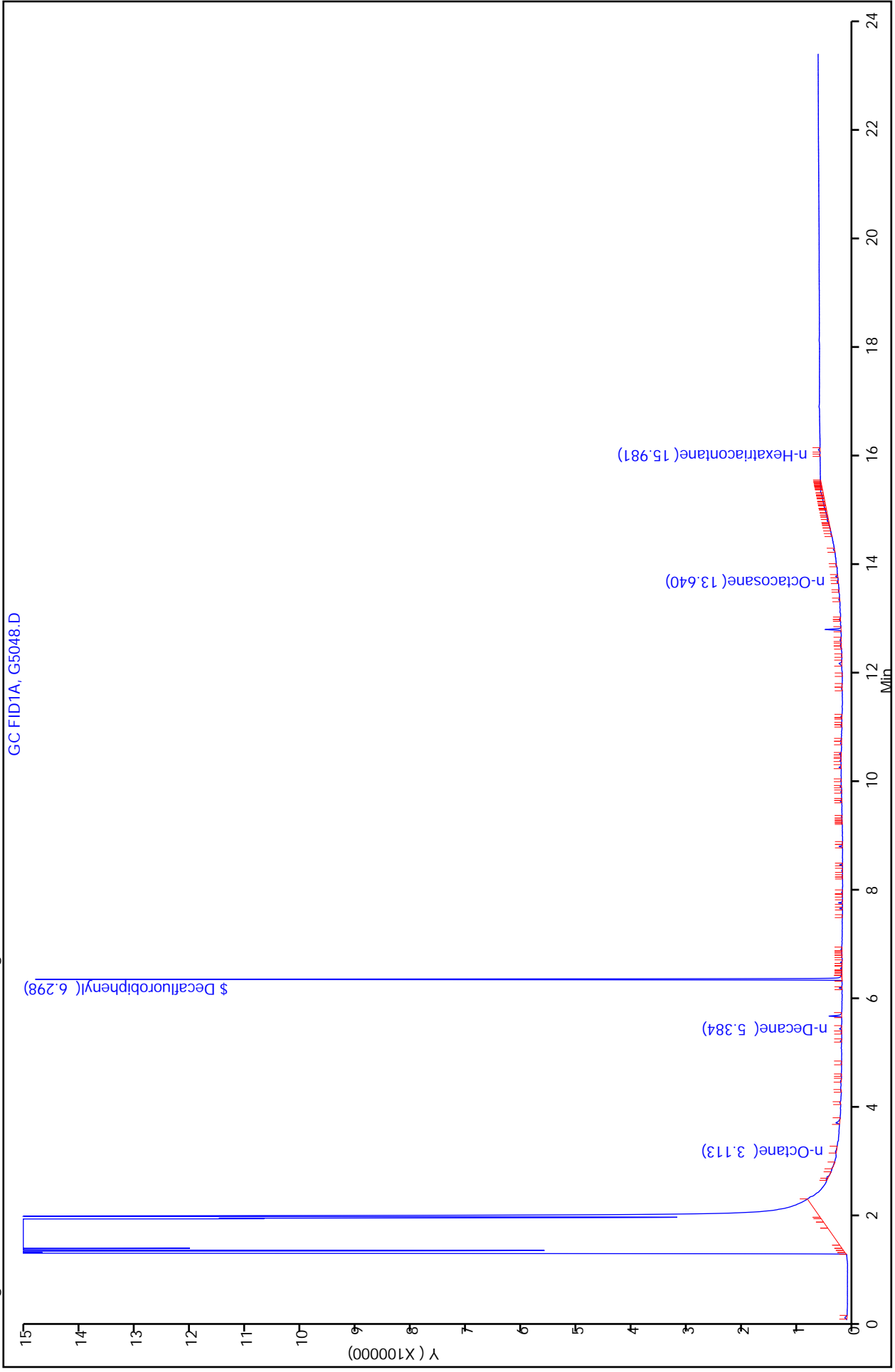
Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
7 C35		0.000				1
9 n-Octane	3.113	3.097	0.016	6023	0	
1 n-Decane	5.384	5.397	-0.013	7698	0	
\$ 2 Decafluorobiphenyl	6.298	6.313	-0.015	1270962	12.6	
A 10 C8-C28		2.999 - 13.724				
A 4 C10-C28		5.346 - 13.724				
A 3 C8-C36	9.536	2.999 - 16.072		5492990	28.0	
6 n-Octacosane	13.640	13.675	-0.035	4023	0	
8 n-Hexatriacontane	15.981	16.011	-0.030	1852	0	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 24-Jun-2011 14:11:29 Chrom Revision: 1.2 03-Jun-2011 08:44:02
Data File: \\valsrv08\ChromData\SGCC\20110624-5101.b\G5048.D
Injection Date: 24-Jun-2011 12:52:40 Limit Group: SGC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 82538 Lims Sample ID: 6
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 510-82524/2-A
 Matrix: Solid Lab File ID: G5049.D
 Analysis Method: 8015B Date Collected: _____
 Extraction Method: 3541 Date Extracted: 06/24/2011 07:50
 Sample wt/vol: 30(g) Date Analyzed: 06/24/2011 13:25
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: 8015 (ERO/DRO) ID: 0.25(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 82538 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00524	C8-C36	<20		20	2.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
434-90-2	Decafluorobiphenyl	73		10-122

TestAmerica Laboratories
Target Compound Quantitation Report

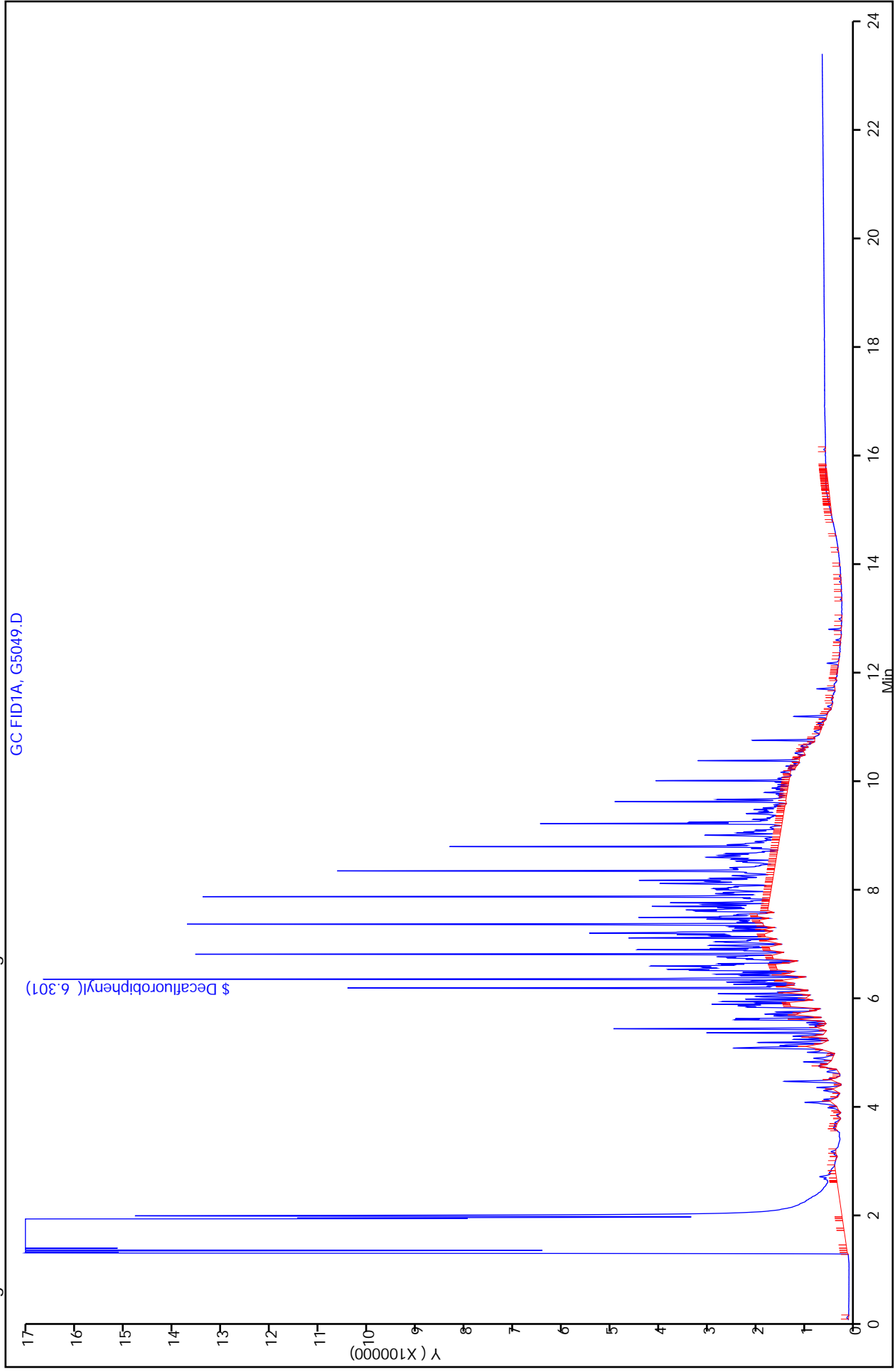
Data File: \\valsvr08\ChromData\SGCC\20110624-5101.b\G5049.D
 Lims ID: LCS 510-82524/2-A Client ID:
 Inject. Date: 24-Jun-2011 13:25:12 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: lcs 510-82524/2-a
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 7
 Lims Batch ID: 82538 Lims Sample ID: 7
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110624-5101.b\DRO_8015.m
 Last Update: 24-Jun-2011 12:18:50 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 24-Jun-2011 14:11:36

Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
\$ 2 Decafluorobiphenyl	6.301	6.313	-0.012	1481029	14.7	
A 10 C8-C28	8.362	2.999 - 13.724		64604377	343.8	
A 4 C10-C28	9.535	5.346 - 13.724		60426152	345.7	
A 3 C8-C36	9.536	2.999 - 16.072		67416585	343.4	

Report Date: 24-Jun-2011 14:11:36 Chrom Revision: 1.2 03-Jun-2011 08:44:02
Data File: \\valsrv08\ChromData\SGCC\20110624-5101.b\G5049.D
Injection Date: 24-Jun-2011 13:25:12 Limit Group: SGCC - 8015 DRO_ERO Calibration
Client ID: Instrument ID: SGCC
Lims Batch ID: 82538 Lims Sample ID: 7
Operator ID: CI Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Client Sample ID: SB0058:TK2FSS:165170 MS Lab Sample ID: 510-66868-1 MS
 Matrix: Solid Lab File ID: G5051.D
 Analysis Method: 8015B Date Collected: 06/23/2011 09:30
 Extraction Method: 3541 Date Extracted: 06/24/2011 07:50
 Sample wt/vol: 30.88(g) Date Analyzed: 06/24/2011 14:29
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: 8015 (ERO/DRO) ID: 0.25(mm)
 % Moisture: 4.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 82538 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00524	C8-C36	<20		20	3.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
434-90-2	Decafluorobiphenyl	58		10-122

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\valsvr08\ChromData\SGCC\20110624-5101.b\G5051.D
 Lims ID: 510-66868-E-1-B MS Client ID:
 Inject. Date: 24-Jun-2011 14:29:58 Dil. Factor: 1.0000
 Sample Type: MS
 Sample ID: 510-66868-e-1-b ms
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 9
 Lims Batch ID: 82538 Lims Sample ID: 9
 Detector: GC FID1A
 Method: \\valsvr08\ChromData\SGCC\20110624-5101.b\DRO_8015.m
 Last Update: 24-Jun-2011 12:18:50 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 24-Jun-2011 15:10:39

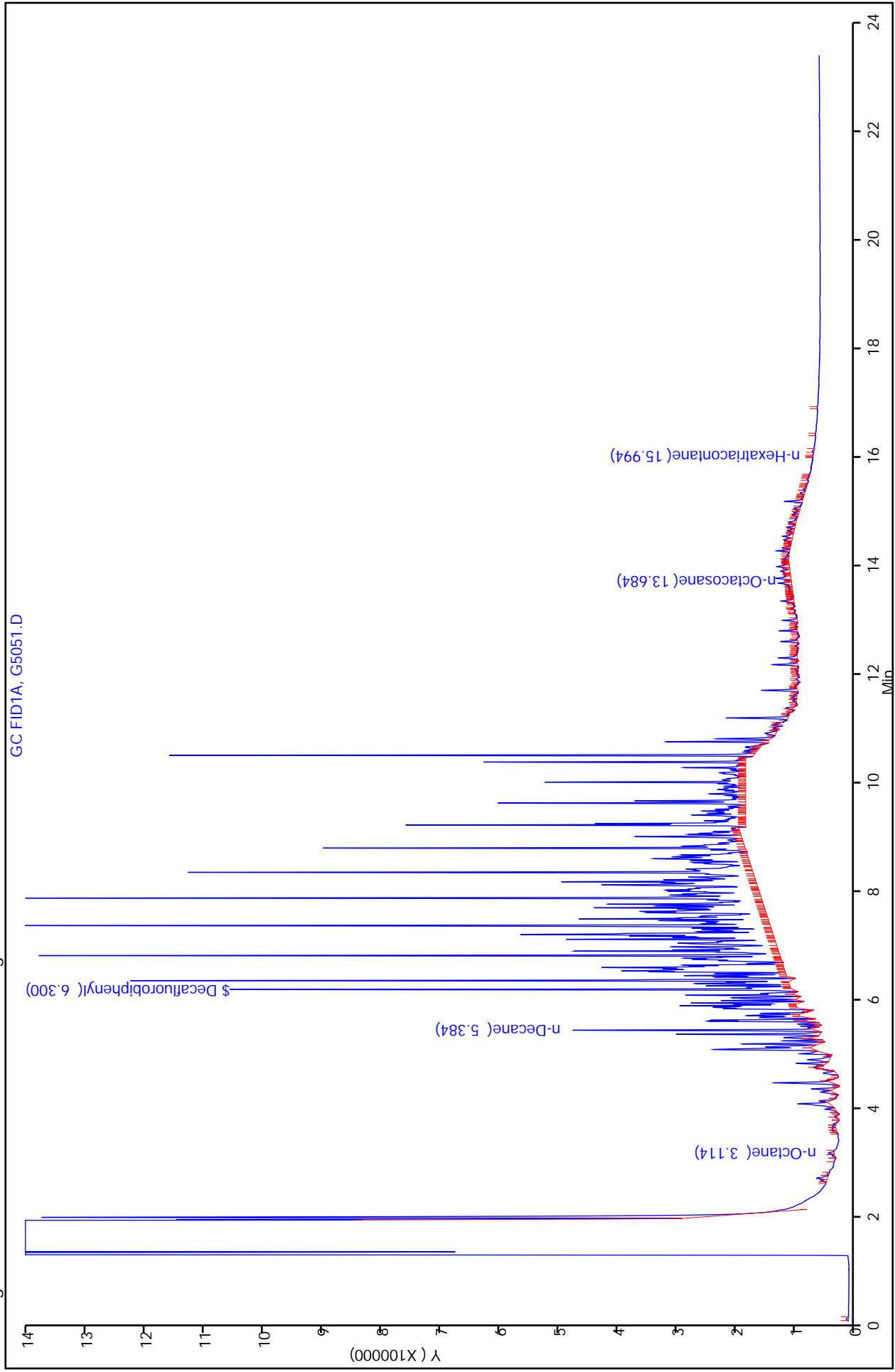
Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
7 C35		0.000				1
9 n-Octane	3.114	3.097	0.017	18255	0	
1 n-Decane	5.384	5.397	-0.013	451919	0	
\$ 2 Decafluorobiphenyl	6.300	6.313	-0.013	1161809	11.5	
A 10 C8-C28	8.362	2.999 - 13.724		85898632	457.1	
A 4 C10-C28	9.535	5.346 - 13.724		67622448	386.9	
A 3 C8-C36	9.536	2.999 - 16.072		95618377	487.0	
6 n-Octacosane	13.684	13.675	0.009	6513	0	
8 n-Hexatriacontane	15.994	16.011	-0.017	1393	0	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 24-Jun-2011 15:10:39 Chrom Revision: 1.2 03-Jun-2011 08:44:02
 Data File: \\valsvr08\ChromData\SGCC\20110624-5101.b\G5051.D
 Injection Date: 24-Jun-2011 14:29:58 Limit Group: SGC - 8015 DRO_ERO Calibration
 Client ID: Instrument ID: SGCC
 Lims Batch ID: 82538 Lims Sample ID: 9
 Operator ID: CI Injection Vol: 1.00 ul
 Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1
 SDG No.: _____
 Client Sample ID: SB0058:TK2FSS:165170 MSD Lab Sample ID: 510-66868-1 MSD
 Matrix: Solid Lab File ID: G5052.D
 Analysis Method: 8015B Date Collected: 06/23/2011 09:30
 Extraction Method: 3541 Date Extracted: 06/24/2011 07:50
 Sample wt/vol: 30.94(g) Date Analyzed: 06/24/2011 15:02
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: 8015 (ERO/DRO) ID: 0.25(mm)
 % Moisture: 4.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 82538 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00524	C8-C36	<20		20	3.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
434-90-2	Decafluorobiphenyl	51		10-122

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\valsvr08\ChromData\SGCC\20110624-5101.b\G5052.D
 Lims ID: 510-66868-E-1-C MSD Client ID:
 Inject. Date: 24-Jun-2011 15:02:18 Dil. Factor: 1.0000
 Sample Type: MSD
 Sample ID: 510-66868-e-1-c msd
 Misc. Info.:
 Operator: CI Instrument ID: SGCC
 Vol. Injected: 1.0000 ALS Bottle#: 10
 Lims Batch ID: 82538 Lims Sample ID: 10
 Detector: GC FID1A

Method: \\valsvr08\ChromData\SGCC\20110624-5101.b\DRO_8015.m
 Last Update: 24-Jun-2011 19:26:27 Calib Date: 08-Apr-2011 17:47:57
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\valsvr08\ChromData\SGCC\20110408-4684.b\G4405.D
 Limit Group: SGC - 8015 DRO_ERO Calibration
 Integrator: Falcon
 Process Host: VAL-SMS-LAB3

First Level Reviewer: iversc

Date: 24-Jun-2011 19:26:07

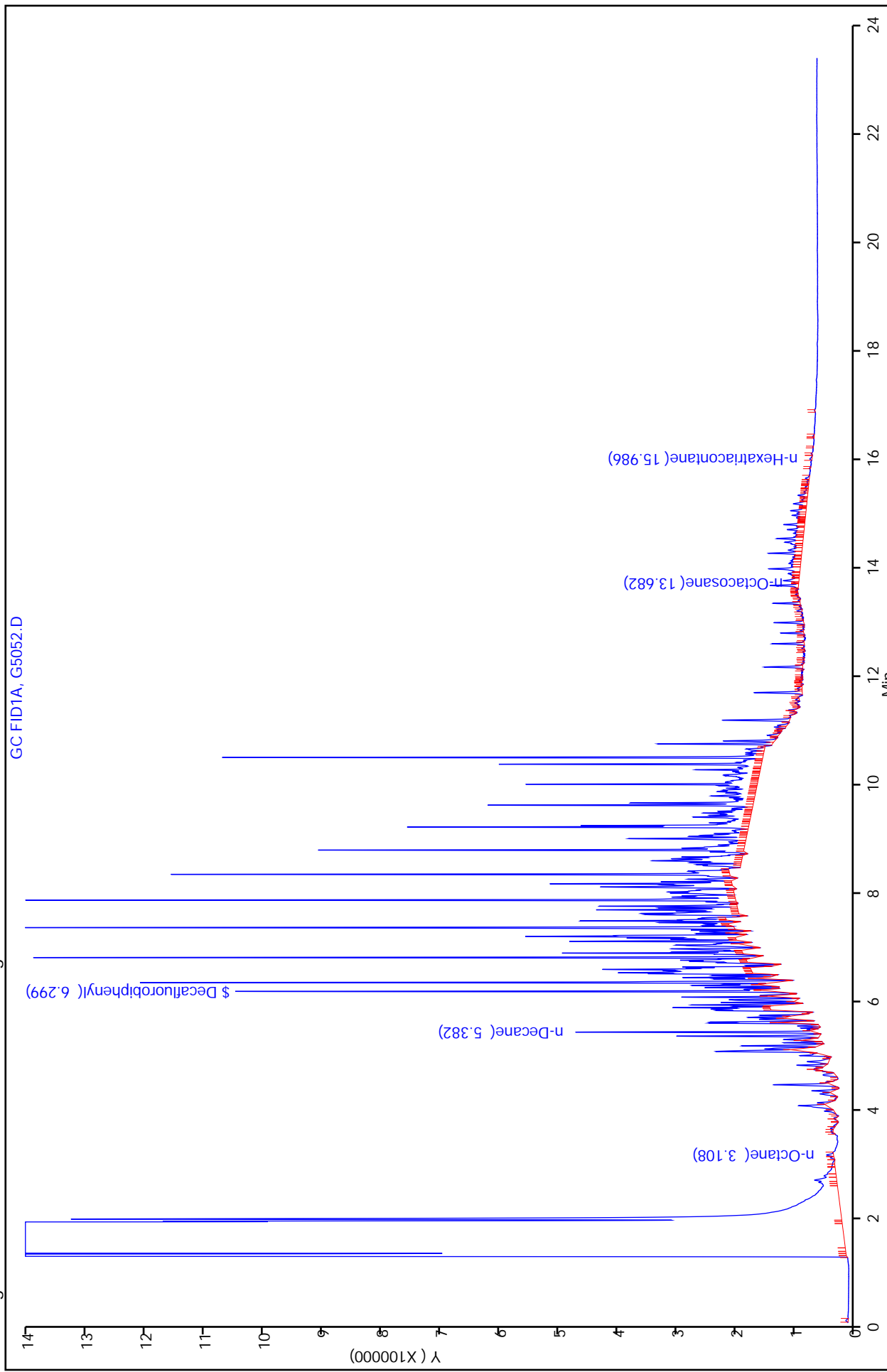
Compound	RT	EXP RT	DLT RT	Response	On-Col Amt ug/ml	Flags
7 C35		0.000				1
9 n-Octane	3.108	3.097	0.011	22621	0	
1 n-Decane	5.382	5.397	-0.015	415256	0	
\$ 2 Decafluorobiphenyl	6.299	6.313	-0.014	1030232	10.2	
A 10 C8-C28	8.362	2.999 - 13.724		79223046	421.6	
A 4 C10-C28	9.535	5.346 - 13.724		61969264	354.6	
A 3 C8-C36	9.536	2.999 - 16.072		87773140	447.1	
6 n-Octacosane	13.682	13.675	0.007	3021	0	
8 n-Hexatriacontane	15.986	16.011	-0.025	7924	0	

QC Flag Legend

Processing Flags

1 - Missing Peaks

Report Date: 24-Jun-2011 19:32:04 Chrom Revision: 1.2 03-Jun-2011 08:44:02
 Data File: \\valsvr08\ChromData\SGCC\20110624-5101.b\G5052.D
 Injection Date: 24-Jun-2011 15:02:18 Limit Group: SGC - 8015 DRO_ERO Calibration
 Client ID: Instrument ID: SGCC
 Lims Batch ID: 82538 Lims Sample ID: 10
 Operator ID: CI Injection Vol: 1.00 ul
 Y Scaling: Method Defined: Scale to the Nth Largest Peak: 8



DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1

SDG No.: _____

Instrument ID: SGCC Start Date: 04/08/2011 12:53

Analysis Batch Number: 78704 End Date: 04/09/2011 20:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/08/2011 12:53	1		8015 (ERO/DRO) 0.25 (mm)
STD 510-78704/3 IC		04/08/2011 13:58	1	G4398.D	8015 (ERO/DRO) 0.25 (mm)
STD 510-78704/4 IC		04/08/2011 14:31	1	G4399.D	8015 (ERO/DRO) 0.25 (mm)
STD 510-78704/5 IC		04/08/2011 15:04	1	G4400.D	8015 (ERO/DRO) 0.25 (mm)
STD 510-78704/6 IC		04/08/2011 15:36	1	G4401.D	8015 (ERO/DRO) 0.25 (mm)
STD 510-78704/7 IC		04/08/2011 16:09	1	G4402.D	8015 (ERO/DRO) 0.25 (mm)
STD 510-78704/8 IC		04/08/2011 16:42	1	G4403.D	8015 (ERO/DRO) 0.25 (mm)
STD 510-78704/9 IC		04/08/2011 17:15	1	G4404.D	8015 (ERO/DRO) 0.25 (mm)
STD 510-78704/10 IC		04/08/2011 17:47	1	G4405.D	8015 (ERO/DRO) 0.25 (mm)
CCV 510-78704/12		04/08/2011 18:53	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/08/2011 19:58	10		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/08/2011 20:30	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/08/2011 21:02	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 11:57	1		8015 (ERO/DRO) 0.25 (mm)
CCV 510-78704/19		04/09/2011 13:02	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 14:08	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 14:41	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 15:13	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 15:46	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 16:19	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 16:51	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 17:24	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 17:57	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 18:29	1		8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		04/09/2011 19:02	1		8015 (ERO/DRO) 0.25 (mm)
CCV 510-78704/32		04/09/2011 20:07	1		8015 (ERO/DRO) 0.25 (mm)

DIESEL RANGE ORGANICS ANALYSIS RUN LOG

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1

SDG No.: _____

Instrument ID: SGCC Start Date: 06/24/2011 10:11

Analysis Batch Number: 82538 End Date: 06/24/2011 16:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		06/24/2011 10:11	1		8015 (ERO/DRO) 0.25 (mm)
ICB 510-82538/2		06/24/2011 10:43	1		8015 (ERO/DRO) 0.25 (mm)
CCV 510-82538/3		06/24/2011 11:15	1	G5045.D	8015 (ERO/DRO) 0.25 (mm)
CCV 510-82538/4		06/24/2011 11:48	1		8015 (ERO/DRO) 0.25 (mm)
ICB 510-82538/5		06/24/2011 12:20	1		8015 (ERO/DRO) 0.25 (mm)
MB 510-82524/1-A		06/24/2011 12:52	1	G5048.D	8015 (ERO/DRO) 0.25 (mm)
LCS 510-82524/2-A		06/24/2011 13:25	1	G5049.D	8015 (ERO/DRO) 0.25 (mm)
510-66868-1	SB0058:TK2FSS:165170	06/24/2011 13:57	1	G5050.D	8015 (ERO/DRO) 0.25 (mm)
510-66868-1 MS	SB0058:TK2FSS:165170 MS	06/24/2011 14:29	1	G5051.D	8015 (ERO/DRO) 0.25 (mm)
510-66868-1 MSD	SB0058:TK2FSS:165170 MSD	06/24/2011 15:02	1	G5052.D	8015 (ERO/DRO) 0.25 (mm)
ZZZZZ		06/24/2011 15:34	1		8015 (ERO/DRO) 0.25 (mm)
CCV 510-82538/12		06/24/2011 16:07	1	G5054.D	8015 (ERO/DRO) 0.25 (mm)
CCV 510-82538/13		06/24/2011 16:39	1		8015 (ERO/DRO) 0.25 (mm)

DIESEL RANGE ORGANICS BATCH WORKSHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1

SDG No.: _____

Batch Number: 82524 Batch Start Date: 06/24/11 07:50 Batch Analyst: Page, Sarah N

Batch Method: 3541 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MSD-DIESEL 00034	SGSSDFB 00024		
MB 510-82524/1		3541, 8015B		30 g	1 mL		50 uL		
LCS 510-82524/2		3541, 8015B		30 g	1 mL	50 uL	50 uL		
510-66868-E-1	SB0058:TK2FSS:16 5170	3541, 8015B	T	30.51 g	1 mL		50 uL		
510-66868-E-1 MS	SB0058:TK2FSS:16 5170	3541, 8015B	T	30.88 g	1 mL	50 uL	50 uL		
510-66868-E-1 MSD	SB0058:TK2FSS:16 5170	3541, 8015B	T	30.94 g	1 mL	50 uL	50 uL		

Batch Notes	
Balance ID	37912
Blank Soil Lot Number	opsand_00005
DCM/CS2 ID	dcm_00056
Vendor lot number	dcm_00056
Na2SO4 Lot Number	opna2so4_00019
Person's name who did the prep	Sarah Page
Solvent	dcm
First Start time	0750

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Valparaiso Job Number: 510-66868-1

SDG No.: _____

Project: South Bend Former Studebaker Foundry

Client Sample ID
SB0058:TK2FSS:165170

Lab Sample ID
510-66868-1

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Valparaiso

Job Number: 510-66868-1

SDG Number: _____

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

RL Date: 11/15/2005 14:44

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/24/2011 17:33 End Date: 06/24/2011 17:33

Lab Sample ID	D / F	T y p e	Time	Analytes															
				% S o l	M o i s t														
MB 510-82575/1	1	T	17:33	X	X														
ZZZZZZ			17:33																
ZZZZZZ			17:33																
510-66868-1	1	T	17:33	X	X														
ZZZZZZ			17:33																
ZZZZZZ			17:33																

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Valparaiso Job No.: 510-66868-1

SDG No.: _____

Batch Number: 82575 Batch Start Date: 06/24/11 17:33 Batch Analyst: Allen, Tiffany L

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 510-82575/1		Moisture		1	001.0281 g	011.3898 g	001.0303 g		
510-66868-E-1	SB0058:TK2FSS:16 5170	Moisture	T	4	001.0123 g	011.3037 g	010.8518 g		

Batch Notes	
Balance ID	GBALB No Unit
Date samples were placed in the oven	06/24/2011
Oven Temp when samples are put in oven	105.2 Degrees C
Oven ID	wc-ovn-1
ID number of the thermometer	14-986B-G
Uncorrected In Temperature	105.0 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Chain of Custody Record

Client Information Client Contact: Ed Stefanek/Jodi Slough Company: Weaver Boos Consultants LLC Address: 4085 Meghan Beeleer Court City: South Bend State, Zip: IN, 46628 Phone: 574-271-3447 Email: estefanek@weaverboos.com / jslough@weaverboos.com Project Name: South Bend Former Studebaker Foundry Site: South Bend Former Studebaker Foundry		Sampler: Jodi Slough Lab PM: Kintz, Robin M Phone: 574-952-5880 E-Mail: robinm.kintz@testamericainc.com		Carner Tracking No(s): COC No: 510-14134.1 Page:		Job #: Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Due Date Requested: TAT Requested (days): ASAP PO #: 0058-37301-01 WO #:		Analysis Requested 8270C, 8270C-SIM - BNAs 6020, 7470 - Metals 8082 - PCBs 8260B - VOCs 8015 - TPH GRO 8015 - TPH ERO 8260B - VOCs (Trip Blanks) Total/Free Cyanide		Field Filtered Sample (Yes or No)		Special Instructions/Note: Total Number of Containers: 1	
Sample Date: 6/23/11 Sample Time: 0730 Sample Type (C=Comp, G=grab): G Matrix (w=water, s=solid, o=wastewater, a=air): S		Preservation Code:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)	
Empty Kit Relinquished by: Jodi Slough Relinquished Date: 6/23/11 1310 Relinquished by: Mandy Drebelt Relinquished Date: 6-23-11 1320		Date:		Method of Shipment:		Special Instructions/QC Requirements:	
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 510-16-016		Company: WBC Company: TestAmerica Company:		Date/Time: 6-23-11 1310 Date/Time: 6-23-11 1320 Date/Time:	

Login Sample Receipt Checklist

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Login Number: 66868

List Source: TestAmerica Valparaiso

List Number: 1

Creator: Looney, Christina M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: Weaver Boos Consultants LLC

Job Number: 510-66868-1

Login Number: 66868
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago
List Creation: 06/24/11 09:55 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	