TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-24850-1

Job Description: Beren Cook Battery NOAV #200337810

For:
Colorado Oil&Gas Conservation Commision
1120 Lincoln St.
Suite 801
Denver, CO 80203

Attention: John Axelson

Approved for release.
Joseph J Egry
Project Manager I
1/31/2012 4:11 PM

Joseph J Egry
Project Manager I
joseph.egry@testamericainc.com
01/31/2012

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Table of Contents

CASE NARRATIVE

Client: Colorado Oil & Gas Conservation Commission

Project: Beren Cook Battery NOAV #200337810

Report Number: 280-24850-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 01/20/2012; the samples arrived in good condition, properly preserved, and on ice. The temperature of the coolers at receipt was 3.1ºC.

The requested 8015 extended carbon range to C38 cannot be performed, the laboratory can only report up to C36.

GASOLINE RANGE ORGANICS (GRO)

Samples SS-1 (280-24850-1), SS-2 (280-24850-2) and SS-3 (280-24850-3) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 01/25/2012.

a,a,a-Trifluorotoluene failed the surrogate recovery criteria low for SS-1 (280-24850-1), SS-2 (280-24850-2), and SS-3 (280-24850-3) due to dilution.

Samples SS-1 (280-24850-1) [50X], SS-2 (280-24850-2) [50X], and SS-3 (280-24850-3) [20X] required dilution prior to analysis due to the abundance of target analytes. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the GRO analyses.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC)

Samples SS-1 (280-24850-1), SS-2 (280-24850-2) and SS-3 (280-24850-3) were analyzed for volatile organic compounds (GC) in accordance with EPA SW-846 Method 8021B. The samples were analyzed on 01/30/2012 and 01/31/2012.

Insufficient sample volume was available to meet method-mandated requirements for matrix spike/matrix spike duplicate (MS/MSD) analyses for 8021 batch 105566 (prep 104602). No other 8021 solids to batch with these samples which were designated as limited volume.

a,a,a-Trifluorotoluene failed the surrogate recovery criteria high for MB 280-104602/5-A. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Samples SS-1 (280-24850-1) [10X], SS-2 (280-24850-2) [10X], and SS-3 (280-24850-3) [10X] required dilution prior to analysis due to abundance of non-target analytes. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS

Samples SS-1 (280-24850-1), SS-2 (280-24850-2) and SS-3 (280-24850-3) were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 01/23/2012 and analyzed on 01/27/2012.

o-Terphenyl failed the surrogate recovery criteria low for SS-1 (280-24850-1), SS-2 (280-24850-2), and SS-3 (280-24850-3) due to dilution.

C10-C36 and Diesel Range Organics [C10-C28] failed the recovery criteria high for the MS and MSD of sample 280-24851-1 in batch 280-105490. C10-C36 and Diesel Range Organics [C10-C28] exceeded the %RPD limit. The associated laboratory control sample

(LCS) recovery met acceptance criteria.

Due to the matrix, the following samples could not be concentrated to the final method required volume: SS-1 (280-24850-1), SS-2 (280-24850-2), and SS-3 (280-24850-3). The nominal final volume for the samples is 1,000uL; the samples could only be concentrated to 10,000uL. The reporting limits (RLs) are elevated proportionately.

Samples SS-1 (280-24850-1) [10X], SS-2 (280-24850-2) [10X] and SS-3 (280-24850-3) [10X] required dilution prior to analysis due to matrix interferences. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the DRO analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples SS-1 (280-24850-1), SS-2 (280-24850-2) and SS-3 (280-24850-3) were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 01/24/2012.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_L Analysis Batch Number: 101950

Lab Sample ID: IC 280-101950/3 Client Sample ID:

Date Analyzed: 12/28/11 13:17 Lab File ID: 130F0301.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.19	Baseline Event	byla	12/30/11 11:27
Gasoline Range Organics (GRO) -C6-C10	13.73	Baseline Event	byla	12/30/11 00:00
C5-C12	14.33	Baseline Event	byla	12/30/11 00:00
C6-C12	15.07	Baseline Event	byla	12/30/11 00:00
1-Chloro-4-fluorobenzene	16.81	Baseline Event	byla	12/30/11 11:27
Chlorobenzene	17.11	Baseline Event	byla	12/30/11 11:27

Lab Sample ID: IC 280-101950/4 Client Sample ID:

Date Analyzed: 12/28/11 13:55 Lab File ID: 131F0401.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.18	Baseline Event	byla	12/30/11 11:28
Gasoline Range Organics (GRO) -C6-C10	13.73	Baseline Event	byla	12/30/11 00:00
C5-C12	14.33	Baseline Event	byla	12/30/11 00:00
C6-C12	15.07	Baseline Event	byla	12/30/11 00:00
1-Chloro-4-fluorobenzene	16.80	Baseline Event	byla	12/30/11 11:28
Chlorobenzene	17.10	Baseline Event	byla	12/30/11 11:28

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_L Analysis Batch Number: 101950

Lab Sample ID: ICRT 280-101950/5 Client Sample ID:

Date Analyzed: 12/28/11 14:32 Lab File ID: 132F0501.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.19	Baseline Event	byla	12/30/11 11:23
Gasoline Range Organics (GRO) -C6-C10	13.73	Baseline Event	byla	12/30/11 00:00
C5-C12	14.33	Baseline Event	byla	12/30/11 00:00
C6-C12	15.07	Baseline Event	byla	12/30/11 00:00
1-Chloro-4-fluorobenzene	16.81	Baseline Event	byla	12/30/11 11:23
Chlorobenzene	17.11	Baseline Event	byla	12/30/11 11:23

Lab Sample ID: IC 280-101950/6 Client Sample ID:

Date Analyzed: 12/28/11 15:10 Lab File ID: 201F0601.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.19	Baseline Event	byla	12/30/11 11:29
Gasoline Range Organics (GRO) -C6-C10	13.73	Baseline Event	byla	12/30/11 00:00
C5-C12	14.33	Baseline Event	byla	12/30/11 00:00
C6-C12	15.07	Baseline Event	byla	12/30/11 00:00
1-Chloro-4-fluorobenzene	16.81	Baseline Event	byla	12/30/11 11:29
Chlorobenzene	17.11	Baseline Event	byla	12/30/11 11:29

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_L Analysis Batch Number: 101950

Lab Sample ID: IC 280-101950/7 Client Sample ID:

Date Analyzed: 12/28/11 15:47 Lab File ID: 202F0701.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.20	Baseline Event	byla	12/30/11 11:29
Gasoline Range Organics (GRO) -C6-C10	13.73	Baseline Event	byla	12/30/11 00:00
C5-C12	14.33	Baseline Event	byla	12/30/11 00:00
C6-C12	15.07	Baseline Event	byla	12/30/11 00:00
1-Chloro-4-fluorobenzene	16.81	Baseline Event	byla	12/30/11 11:29
Chlorobenzene	17.11	Baseline Event	byla	12/30/11 11:29

Lab Sample ID: IC 280-101950/8 Client Sample ID:

Date Analyzed: 12/28/11 16:25 Lab File ID: 203F0801.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.20	Baseline Event	byla	12/30/11 11:32
Gasoline Range Organics (GRO) -C6-C10	13.73	Baseline Event	byla	12/30/11 00:00
C5-C12	14.33	Baseline Event	byla	12/30/11 00:00
C6-C12	15.07	Baseline Event	byla	12/30/11 00:00
1-Chloro-4-fluorobenzene	16.82	Baseline Event	byla	12/30/11 11:32
Chlorobenzene	17.11	Baseline Event	byla	12/30/11 11:32

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_L Analysis Batch Number: 101950

Lab Sample ID: ICV 280-101950/9 Client Sample ID:

Date Analyzed: 12/28/11 17:03 Lab File ID: 204F0901.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.19	Baseline Event	byla	12/30/11 11:45
Gasoline Range Organics (GRO) -C6-C10	13.73	Baseline Event	byla	12/30/11 00:00
C5-C12	14.33	Baseline Event	byla	12/30/11 00:00
C6-C12	15.07	Baseline Event	byla	12/30/11 00:00
Gasoline	15.07	Baseline Event	byla	12/30/11 00:00
Chlorobenzene	17.11	Baseline Event	byla	12/30/11 11:45

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_L Analysis Batch Number: 104736

Lab Sample ID: CCVRT 280-104736/2 Client Sample ID:

Date Analyzed: 01/24/12 11:19 Lab File ID: 125F0201.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.19	Baseline Event	byla	01/24/12 12:27
Gasoline Range Organics (GRO) -C6-C10	13.75	Baseline Event	byla	01/24/12 00:00
Chlorobenzene	17.10	Baseline Event	byla	01/24/12 12:27

Lab Sample ID: LCS 280-104602/1-A Client Sample ID:

Date Analyzed: 01/24/12 13:30 Lab File ID: 126F0301.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.19	Baseline Event	byla	01/24/12 14:41
Gasoline Range Organics (GRO) -C6-C10	13.75	Baseline Event	byla	01/24/12 00:00

Lab Sample ID: LCSD 280-104602/2-A Client Sample ID:

Date Analyzed: 01/24/12 14:07 Lab File ID: 127F0401.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.17	Baseline Event	byla	01/24/12 14:41
Gasoline Range Organics (GRO) -C6-C10	13.75	Baseline Event	byla	01/24/12 00:00

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_L Analysis Batch Number: 104736

Lab Sample ID: CCV 280-104736/10 Client Sample ID:

Date Analyzed: 01/24/12 19:20 Lab File ID: 201F1001.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.17	Baseline Event	byla	01/25/12 08:39
Gasoline Range Organics (GRO) -C6-C10	13.75	Baseline Event	byla	01/25/12 00:00
Chlorobenzene	17.09	Baseline Event	byla	01/25/12 08:39

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_L Analysis Batch Number: 104882

Lab Sample ID: CCVRT 280-104882/2 Client Sample ID:

Date Analyzed: 01/25/12 10:40 Lab File ID: 126F0201.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.15	Baseline Event	byla	01/25/12 11:05
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	byla	01/25/12 00:00
Chlorobenzene	17.07	Baseline Event	byla	01/25/12 11:05

Lab Sample ID: 280-24850-1 Client Sample ID: SS-1

Date Analyzed: 01/25/12 11:36 Lab File ID: 127F0301.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	byla	01/25/12 00:00

Lab Sample ID: 280-24850-2 Client Sample ID: SS-2

Date Analyzed: 01/25/12 12:14 Lab File ID: 128F0401.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	byla	01/25/12 00:00

Lab Sample ID: 280-24850-3 Client Sample ID: SS-3

Date Analyzed: 01/25/12 12:53 Lab File ID: 129F0501.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.20	Baseline Event	byla	01/25/12 14:36
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	byla	01/25/12 00:00

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_L Analysis Batch Number: 104882

Lab Sample ID: 280-24851-C-3-B MS Client Sample ID:

Date Analyzed: 01/25/12 15:59 Lab File ID: 202F1001.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.16	Baseline Event	byla	01/25/12 17:57
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	byla	01/25/12 00:00

Lab Sample ID: 280-24851-C-3-C MSD Client Sample ID:

Date Analyzed: 01/25/12 16:37 Lab File ID: 203F1101.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.17	Baseline Event	byla	01/25/12 17:58
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	byla	01/25/12 00:00

Lab Sample ID: CCV 280-104882/11 Client Sample ID:

Date Analyzed: 01/25/12 17:30 Lab File ID: 204F1201.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	12.17	Baseline Event	byla	01/25/12 17:55
Gasoline Range Organics (GRO) -C6-C10	13.71	Baseline Event	byla	01/25/12 00:00
Chlorobenzene	17.08	Baseline Event	byla	01/25/12 17:55

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_H Analysis Batch Number: 98153

Lab Sample ID: IC 280-98153/4 Client Sample ID:

Date Analyzed: 11/29/11 17:57 Lab File ID: 203B0901.D GC Column: RTX-1 (60.53) ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	5.03	Split Peak	SmithM	11/30/11 16:54

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_H Analysis Batch Number: 105566

Lab Sample ID: 280-24850-1 Client Sample ID: SS-1

Date Analyzed: 01/30/12 23:20 Lab File ID: 301B1901.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	8.50	Baseline Event	SmithM	01/31/12 12:52
1-Chloro-4-fluorobenzene	12.71	Baseline Event	SmithM	01/31/12 13:14
o-Xylene	14.12	Baseline Event	SmithM	01/31/12 12:52
Naphthalene	20.52	Baseline Event	SmithM	01/31/12 12:52

Lab Sample ID: 280-24850-1 Client Sample ID: SS-1

Date Analyzed: 01/30/12 23:20 Lab File ID: 301B1901.D GC Column: RTX-1 (60.53) ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	7.93	Baseline Event	SmithM	01/31/12 12:50
Toluene	9.61	Baseline Event	SmithM	01/31/12 12:47
1-Chloro-4-fluorobenzene	11.41	Baseline Event	SmithM	01/31/12 12:47
Ethylbenzene	12.09	Baseline Event	SmithM	01/31/12 12:47
o-Xylene	12.95	Analyte not Identified by the Data System	SmithM	01/31/12 00:00
Naphthalene	19.16	Baseline Event	SmithM	01/31/12 12:47

Lab Sample ID: 280-24850-2 Client Sample ID: SS-2

Date Analyzed: 01/31/12 00:26 Lab File ID: 303B2101.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	8.49	Baseline Event	SmithM	01/31/12 12:52
1-Chloro-4-fluorobenzene	12.71	Baseline Event	SmithM	01/31/12 13:14
o-Xylene	14.12	Baseline Event	SmithM	01/31/12 12:52
Naphthalene	20.53	Baseline Event	SmithM	01/31/12 12:52

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_H Analysis Batch Number: 105566

Lab Sample ID: 280-24850-2 Client Sample ID: SS-2

Date Analyzed: 01/31/12 00:26 Lab File ID: 303B2101.D GC Column: RTX-1 (60.53) ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	7.93	Baseline Event	SmithM	01/31/12 12:49
Toluene	9.61	Baseline Event	SmithM	01/31/12 12:47
1-Chloro-4-fluorobenzene	11.41	Baseline Event	SmithM	01/31/12 12:47
Ethylbenzene	12.09	Baseline Event	SmithM	01/31/12 12:47
o-Xylene	12.95	Analyte not Identified by the Data System	SmithM	01/31/12 00:00
Naphthalene	19.16	Baseline Event	SmithM	01/31/12 12:47

Lab Sample ID: 280-24850-3 Client Sample ID: SS-3

Date Analyzed: 01/31/12 01:31 Lab File ID: 305B2301.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	8.49	Baseline Event	SmithM	01/31/12 12:52
1-Chloro-4-fluorobenzene	12.72	Baseline Event	SmithM	01/31/12 13:13
o-Xylene	14.12	Baseline Event	SmithM	01/31/12 12:52
Naphthalene	20.53	Baseline Event	SmithM	01/31/12 12:52

Lab Sample ID: 280-24850-3 Client Sample ID: SS-3

Date Analyzed: 01/31/12 01:31 Lab File ID: 305B2301.D GC Column: RTX-1 (60.53) ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	7.94	Split Peak	SmithM	01/31/12 12:48
1-Chloro-4-fluorobenzene	11.42	Baseline Event	SmithM	01/31/12 12:48
Ethylbenzene	12.10	Baseline Event	SmithM	01/31/12 12:48
o-Xylene	12.96	Analyte not Identified by the Data System	SmithM	01/31/12 00:00
Naphthalene	19.17	Baseline Event	SmithM	01/31/12 12:48

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCV_H Analysis Batch Number: 105566

Lab Sample ID: CCV 280-105566/8 Client Sample ID:

Date Analyzed: 01/31/12 02:04 Lab File ID: 306B2401.D GC Column: RTX 502.2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	7.64	Baseline Event	SmithM	01/31/12 12:42
a,a,a-Trifluorotoluene	8.49	Baseline Event	SmithM	01/31/12 12:42
Naphthalene	20.51	Baseline Event	SmithM	01/31/12 12:42

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCS_U Analysis Batch Number: 104020

Lab Sample ID: IC 280-104020/2 Client Sample ID:

Date Analyzed: 01/18/12 12:21 Lab File ID: 004B0401.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.36	Baseline Event	birdsellm	01/19/12 09:01
C10-C24	3.59	Baseline Event	birdsellm	01/19/12 09:01
C10-C25	3.69	Baseline Event	birdsellm	01/19/12 09:01
Diesel Range Organics [C10-C28]	3.99	Baseline Event	birdsellm	01/19/12 09:01
C8-C34	4.32	Baseline Event	birdsellm	
C10-C32	4.35	Baseline Event	birdsellm	01/19/12 09:01
C10-C36	4.68	Baseline Event	birdsellm	01/19/12 09:01

Lab Sample ID: IC 280-104020/3 Client Sample ID:

Date Analyzed: 01/18/12 12:50 Lab File ID: 005B0501.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.36	Baseline Event	birdsellm	01/19/12 10:27
C10-C24	3.59	Baseline Event	birdsellm	01/19/12 10:27
C10-C25	3.69	Baseline Event	birdsellm	01/19/12 10:27
Diesel Range Organics [C10-C28]	3.99	Baseline Event	birdsellm	01/19/12 10:27
C8-C34	4.32	Baseline Event	birdsellm	01/19/12 10:27
C10-C32	4.35	Baseline Event	birdsellm	01/19/12 10:27
C10-C36	4.68	Baseline Event	birdsellm	01/19/12 10:27
o-Terphenyl	5.15	Baseline Event	birdsellm	01/19/12 10:27
n-Octacosane	7.38	Baseline Event	birdsellm	01/19/12 09:02

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCS_U Analysis Batch Number: 104020

Lab Sample ID: IC 280-104020/4 Client Sample ID:

Date Analyzed: 01/18/12 13:18 Lab File ID: 006B0601.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.36	Baseline Event	birdsellm	01/19/12 10:27
C10-C24	3.59	Baseline Event	birdsellm	01/19/12 10:27
C10-C25	3.69	Baseline Event	birdsellm	01/19/12 10:27
Diesel Range Organics [C10-C28]	3.99	Baseline Event	birdsellm	01/19/12 10:27
C8-C34	4.32	Baseline Event	birdsellm	01/19/12 10:27
C10-C32	4.35	Baseline Event	birdsellm	01/19/12 10:27
C10-C36	4.68	Baseline Event	birdsellm	01/19/12 10:27
o-Terphenyl	5.14	Baseline Event	birdsellm	01/19/12 10:27
n-Octacosane	7.38	Baseline Event	birdsellm	01/19/12 09:02

Lab Sample ID: ICRT 280-104020/5 Client Sample ID:

Date Analyzed: 01/18/12 13:47 Lab File ID: 007B0701.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.36	Baseline Event	birdsellm	01/19/12 10:27
C10-C24	3.59	Baseline Event	birdsellm	01/19/12 10:27
C10-C25	3.69	Baseline Event	birdsellm	01/19/12 10:27
Diesel Range Organics [C10-C28]	3.99	Baseline Event	birdsellm	01/19/12 10:27
C8-C34	4.32	Baseline Event	birdsellm	01/19/12 10:27
C10-C32	4.35	Baseline Event	birdsellm	01/19/12 10:27
C10-C36	4.68	Baseline Event	birdsellm	01/19/12 10:27
o-Terphenyl	5.13	Baseline Event	birdsellm	01/19/12 10:27

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCS_U Analysis Batch Number: 104020

Lab Sample ID: IC 280-104020/6 Client Sample ID:

Date Analyzed: 01/18/12 14:15 Lab File ID: 008B0801.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.36	Baseline Event	birdsellm	01/19/12 10:27
C10-C24	3.59	Baseline Event	birdsellm	01/19/12 10:27
C10-C25	3.69	Baseline Event	birdsellm	01/19/12 10:27
Diesel Range Organics [C10-C28]	3.99	Baseline Event	birdsellm	01/19/12 10:27
C8-C34	4.32	Baseline Event	birdsellm	01/19/12 10:27
C10-C32	4.35	Baseline Event	birdsellm	01/19/12 10:27
C10-C36	4.68	Baseline Event	birdsellm	01/19/12 10:27
o-Terphenyl	5.13	Baseline Event	birdsellm	01/19/12 10:27
n-Octacosane	7.39	Baseline Event	birdsellm	01/19/12 09:03

Lab Sample ID: IC 280-104020/7 Client Sample ID:

Date Analyzed: 01/18/12 14:44 Lab File ID: 009B0901.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.36	Baseline Event	birdsellm	01/19/12 10:27
C10-C24	3.59	Baseline Event	birdsellm	01/19/12 10:27
C10-C25	3.69	Baseline Event	birdsellm	01/19/12 10:27
Diesel Range Organics [C10-C28]	3.99	Baseline Event	birdsellm	01/19/12 10:27
C8-C34	4.32	Baseline Event	birdsellm	01/19/12 10:27
C10-C32	4.35	Baseline Event	birdsellm	01/19/12 10:27
C10-C36	4.68	Baseline Event	birdsellm	01/19/12 10:27
o-Terphenyl	5.12	Baseline Event	birdsellm	01/19/12 10:27

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCS_U Analysis Batch Number: 104020

Lab Sample ID: IC 280-104020/8 Client Sample ID:

Date Analyzed: 01/18/12 15:12 Lab File ID: 010B1001.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.36	Baseline Event	birdsellm	01/19/12 10:27
C10-C24	3.59	Baseline Event	birdsellm	01/19/12 10:27
C10-C25	3.69	Baseline Event	birdsellm	01/19/12 10:27
Diesel Range Organics [C10-C28]	3.99	Baseline Event	birdsellm	01/19/12 10:27
C8-C34	4.32	Baseline Event	birdsellm	01/19/12 10:27
C10-C32	4.35	Baseline Event	birdsellm	01/19/12 10:27
C10-C36	4.68	Baseline Event	birdsellm	01/19/12 10:27
o-Terphenyl	5.12	Baseline Event	birdsellm	01/19/12 10:27

Lab Sample ID: ICV 280-104020/9 Client Sample ID:

Date Analyzed: 01/18/12 15:41 Lab File ID: 011B1101.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	3.36	Baseline Event	birdsellm	01/19/12 10:43
C10-C24	3.59	Baseline Event	birdsellm	01/19/12 10:43
C10-C25	3.69	Baseline Event	birdsellm	01/19/12 10:43
Diesel Range Organics [C10-C28]	3.99	Baseline Event	birdsellm	01/19/12 10:43
C8-C34	4.32	Baseline Event	birdsellm	01/19/12 10:43
C10-C32	4.35	Baseline Event	birdsellm	01/19/12 10:43
C10-C36	4.68	Baseline Event	birdsellm	01/19/12 10:43
o-Terphenyl	5.12	Baseline Event	birdsellm	01/19/12 10:29
n-Octacosane	7.39	Baseline Event	birdsellm	01/19/12 10:43

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCS_U Analysis Batch Number: 105490

Lab Sample ID: CCVRT 280-105490/2 Client Sample ID:

Date Analyzed: 01/26/12 09:29 Lab File ID: 003B0301.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	3.98	Baseline Event	birdsellm	01/31/12 09:54
C10-C36	4.68	Baseline Event	birdsellm	01/31/12 09:54
o-Terphenyl	5.10	Baseline Event	birdsellm	01/31/12 09:54
C25-C36	7.77	Baseline Event	birdsellm	01/31/12 09:54

Lab Sample ID: CCV 280-105490/3 Client Sample ID:

Date Analyzed: 01/27/12 12:12 Lab File ID: 035B3501.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	3.98	Baseline Event	birdsellm	01/31/12 09:55
C10-C36	4.68	Baseline Event	birdsellm	01/31/12 09:55
o-Terphenyl	5.10	Baseline Event	birdsellm	01/31/12 09:55
C25-C36	7.77	Baseline Event	birdsellm	01/31/12 09:55

Lab Sample ID: LCS 280-104523/2-A Client Sample ID:

Date Analyzed: 01/27/12 13:37 Lab File ID: 038B3801.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	3.98	Baseline Event	birdsellm	01/31/12 09:56
C10-C36	4.68	Baseline Event	birdsellm	01/31/12 09:56
o-Terphenyl	5.08	Baseline Event	birdsellm	01/31/12 09:56

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCS_U Analysis Batch Number: 105490

Lab Sample ID: 280-24850-1 Client Sample ID: SS-1

Date Analyzed: 01/27/12 14:06 Lab File ID: 039B3901.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	3.98	Baseline Event	birdsellm	
C10-C36	4.68	Baseline Event	birdsellm	01/31/12 09:56

Lab Sample ID: 280-24850-2 Client Sample ID: SS-2

Date Analyzed: 01/27/12 14:34 Lab File ID: 040B4001.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	3.98	Baseline Event	birdsellm	
C10-C36	4.68	Baseline Event	birdsellm	01/31/12 09:56

Lab Sample ID: 280-24850-3 Client Sample ID: SS-3

Date Analyzed: 01/27/12 15:02 Lab File ID: 041B4101.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	3.98	Baseline Event	birdsellm	
C10-C36	4.68	Baseline Event	birdsellm	01/31/12 09:56

Lab Sample ID: 280-24851-B-1-B MS Client Sample ID:

Date Analyzed: 01/27/12 15:59 Lab File ID: 043B4301.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	3.98	Baseline Event	birdsellm	01/31/12 12:36
C10-C36	4.68	Baseline Event	birdsellm	01/31/12 12:36
o-Terphenyl	5.08	Baseline Event	birdsellm	01/31/12 09:57

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Instrument ID: GCS_U Analysis Batch Number: 105490

Lab Sample ID: 280-24851-B-1-C MSD Client Sample ID:

Date Analyzed: 01/27/12 16:27 Lab File ID: 044B4401.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	3.98	Baseline Event	birdsellm	01/31/12 12:36
C10-C36	4.68	Baseline Event	birdsellm	01/31/12 12:36
o-Terphenyl	5.08	Baseline Event	birdsellm	01/31/12 09:57

Lab Sample ID: CCV 280-105490/13 Client Sample ID:

Date Analyzed: 01/27/12 16:55 Lab File ID: 045B4501.D GC Column: RTX-1 (30.32) ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	3.98	Baseline Event	birdsellm	01/31/12 09:57
C10-C36	4.68	Baseline Event	birdsellm	01/31/12 09:57
o-Terphenyl	5.09	Baseline Event	birdsellm	01/31/12 09:57
n-Octacosane	7.37	Baseline Event	birdsellm	01/31/12 09:57
C25-C36	7.77	Baseline Event	birdsellm	01/31/12 09:57

SAMPLE SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-24850-1	SS-1	Solid	01/19/2012 1100	01/20/2012 1310
280-24850-2	SS-2	Solid	01/19/2012 1114	01/20/2012 1310
280-24850-3	SS-3	Solid	01/19/2012 1126	01/20/2012 1310

EXECUTIVE SUMMARY - Detections

Client: Colorado Oil&Gas Conservation Commision Job Number: 280-24850-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-24850-1	**SS-1**					
Gasoline Range Organics (GRO)-C6-C10		1500		70	mg/Kg	8015B
o-Xylene		2400	p	580	ug/Kg	8021B
Naphthalene		12000	P	580	ug/Kg	8021B
Diesel Range Organics [C10-C28]		48000		470	mg/Kg	8015B
C10-C36		63000		470	mg/Kg	8015B
Percent Moisture		16		0.10	%	Moisture
280-24850-2	**SS-2**					
Gasoline Range Organics (GRO)-C6-C10		1200		71	mg/Kg	8015B
o-Xylene		1900	p	590	ug/Kg	8021B
Naphthalene		12000	P	590	ug/Kg	8021B
Diesel Range Organics [C10-C28]		49000		460	mg/Kg	8015B
C10-C36		65000		460	mg/Kg	8015B
Percent Moisture		16		0.10	%	Moisture
280-24850-3	**SS-3**					
Gasoline Range Organics (GRO)-C6-C10		970		27	mg/Kg	8015B
o-Xylene		1400	p	560	ug/Kg	8021B
Naphthalene		17000	P	560	ug/Kg	8021B
Diesel Range Organics [C10-C28]		48000		450	mg/Kg	8015B
C10-C36		64000		450	mg/Kg	8015B
Percent Moisture		12		0.10	%	Moisture

METHOD SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Gasoline Range Organics - (GC)	TAL DEN	SW846 8015B	
Purge and Trap			SW846 5030B
Volatile Organic Compounds (GC)	TAL DEN	SW846 8021B	
Purge and Trap			SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL DEN	SW846 8015B	
Microwave Extraction			SW846 3546
Percent Moisture	TAL DEN	EPA Moisture	

Lab References:

TAL DEN = TestAmerica Denver

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: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Method	Analyst	Analyst ID
SW846 8015B	Byl, Amelia M	AMB
SW846 8021B	Smith, Matthew P	MPS
SW846 8015B	Birdsell, Matthew R	MRB
EPA Moisture	Berry III, Paul B	PBB

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-1**

Lab Sample ID: 280-24850-1
Client Matrix: Solid
% Moisture: 15.7

Date Sampled: 01/19/2012 1100
Date Received: 01/20/2012 1310

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-104882	Instrument ID:	GCV_L
Prep Method:	5030B	Prep Batch:	280-104602	Initial Weight/Volume:	10.23 g
Dilution:	50			Final Weight/Volume:	500 mL
Analysis Date:	01/25/2012 1136			Injection Volume:	5 mL
Prep Date:	01/24/2012 1037			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		1500		70

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	0	D	77 - 123

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-2**

Lab Sample ID: 280-24850-2
Client Matrix: Solid
% Moisture: 15.7

Date Sampled: 01/19/2012 1114
Date Received: 01/20/2012 1310

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-104882	Instrument ID:	GCV_L
Prep Method:	5030B	Prep Batch:	280-104602	Initial Weight/Volume:	10.04 g
Dilution:	50			Final Weight/Volume:	500 mL
Analysis Date:	01/25/2012 1214			Injection Volume:	5 mL
Prep Date:	01/24/2012 1037			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		1200		71

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	0	D	77 - 123

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-3**

Lab Sample ID: 280-24850-3
Client Matrix: Solid
% Moisture: 12.4

Date Sampled: 01/19/2012 1126
Date Received: 01/20/2012 1310

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-104882	Instrument ID:	GCV_L
Prep Method:	5030B	Prep Batch:	280-104602	Initial Weight/Volume:	10.26 g
Dilution:	20			Final Weight/Volume:	500 mL
Analysis Date:	01/25/2012 1253			Injection Volume:	5 mL
Prep Date:	01/24/2012 1037			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		970		27

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	148	D	77 - 123

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-1**

Lab Sample ID: 280-24850-1
Client Matrix: Solid
% Moisture: 15.7

Date Sampled: 01/19/2012 1100
Date Received: 01/20/2012 1310

8021B Volatile Organic Compounds (GC)

Analysis Method:	8021B	Analysis Batch:	280-105566	Instrument ID:	GCV_H
Prep Method:	5030B	Prep Batch:	280-104602	Initial Weight/Volume:	10.23 g
Dilution:	10			Final Weight/Volume:	500 mL
Analysis Date:	01/30/2012 2320			Injection Volume:	5 mL
Prep Date:	01/24/2012 1037			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Benzene		ND		580
Ethylbenzene		ND		580
Toluene		ND		580
m-Xylene & p-Xylene		ND		580
o-Xylene		2400	p	580
Naphthalene		12000	P	580

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	105	D	82 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-1**

Lab Sample ID: 280-24850-1
Client Matrix: Solid
% Moisture: 15.7

Date Sampled: 01/19/2012 1100
Date Received: 01/20/2012 1310

8021B Volatile Organic Compounds (GC)

Analysis Method:	8021B	Analysis Batch:	280-105566	Instrument ID:	GCV_H
Prep Method:	5030B	Prep Batch:	280-104602	Initial Weight/Volume:	10.23 g
Dilution:	10			Final Weight/Volume:	500 mL
Analysis Date:	01/30/2012 2320			Injection Volume:	5 mL
Prep Date:	01/24/2012 1037			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	75	D	82 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-2**

Lab Sample ID: 280-24850-2
Client Matrix: Solid
% Moisture: 15.7

Date Sampled: 01/19/2012 1114
Date Received: 01/20/2012 1310

8021B Volatile Organic Compounds (GC)

Analysis Method:	8021B	Analysis Batch:	280-105566	Instrument ID:	GCV_H
Prep Method:	5030B	Prep Batch:	280-104602	Initial Weight/Volume:	10.04 g
Dilution:	10			Final Weight/Volume:	500 mL
Analysis Date:	01/31/2012 0026			Injection Volume:	5 mL
Prep Date:	01/24/2012 1037			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Benzene		ND		590
Ethylbenzene		ND		590
Toluene		ND		590
m-Xylene & p-Xylene		ND		590
o-Xylene		1900	p	590
Naphthalene		12000	P	590

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	100	D	82 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-2**

Lab Sample ID: 280-24850-2
Client Matrix: Solid
% Moisture: 15.7

Date Sampled: 01/19/2012 1114
Date Received: 01/20/2012 1310

8021B Volatile Organic Compounds (GC)

Analysis Method:	8021B	Analysis Batch:	280-105566	Instrument ID:	GCV_H
Prep Method:	5030B	Prep Batch:	280-104602	Initial Weight/Volume:	10.04 g
Dilution:	10			Final Weight/Volume:	500 mL
Analysis Date:	01/31/2012 0026			Injection Volume:	5 mL
Prep Date:	01/24/2012 1037			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	68	D	82 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-3**

Lab Sample ID: 280-24850-3
Client Matrix: Solid
% Moisture: 12.4

Date Sampled: 01/19/2012 1126
Date Received: 01/20/2012 1310

8021B Volatile Organic Compounds (GC)

Analysis Method:	8021B	Analysis Batch:	280-105566	Instrument ID:	GCV_H
Prep Method:	5030B	Prep Batch:	280-104602	Initial Weight/Volume:	10.26 g
Dilution:	10			Final Weight/Volume:	500 mL
Analysis Date:	01/31/2012 0131			Injection Volume:	5 mL
Prep Date:	01/24/2012 1037			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Benzene		ND		560
Ethylbenzene		ND		560
Toluene		ND		560
m-Xylene & p-Xylene		ND		560
o-Xylene		1400	p	560
Naphthalene		17000	P	560

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	93	D	82 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-3**

Lab Sample ID: 280-24850-3
Client Matrix: Solid
% Moisture: 12.4

Date Sampled: 01/19/2012 1126
Date Received: 01/20/2012 1310

8021B Volatile Organic Compounds (GC)

Analysis Method:	8021B	Analysis Batch:	280-105566	Instrument ID:	GCV_H
Prep Method:	5030B	Prep Batch:	280-104602	Initial Weight/Volume:	10.26 g
Dilution:	10			Final Weight/Volume:	500 mL
Analysis Date:	01/31/2012 0131			Injection Volume:	5 mL
Prep Date:	01/24/2012 1037			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	45	D	82 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-1**

Lab Sample ID: 280-24850-1
Client Matrix: Solid
% Moisture: 15.7

Date Sampled: 01/19/2012 1100
Date Received: 01/20/2012 1310

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-105490	Instrument ID:	GCS_U
Prep Method:	3546	Prep Batch:	280-104523	Initial Weight/Volume:	30.1 g
Dilution:	10			Final Weight/Volume:	10000 uL
Analysis Date:	01/27/2012 1406			Injection Volume:	1 uL
Prep Date:	01/23/2012 1946			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		48000		470
C10-C36		63000		470

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	0	D	49 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-2**

Lab Sample ID: 280-24850-2
Client Matrix: Solid
% Moisture: 15.7

Date Sampled: 01/19/2012 1114
Date Received: 01/20/2012 1310

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-105490	Instrument ID:	GCS_U
Prep Method:	3546	Prep Batch:	280-104523	Initial Weight/Volume:	30.8 g
Dilution:	10			Final Weight/Volume:	10000 uL
Analysis Date:	01/27/2012 1434			Injection Volume:	1 uL
Prep Date:	01/23/2012 1946			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		49000		460
C10-C36		65000		460

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	0	D	49 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Client Sample ID: **SS-3**

Lab Sample ID: 280-24850-3
Client Matrix: Solid
% Moisture: 12.4

Date Sampled: 01/19/2012 1126
Date Received: 01/20/2012 1310

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-105490	Instrument ID:	GCS_U
Prep Method:	3546	Prep Batch:	280-104523	Initial Weight/Volume:	30.1 g
Dilution:	10			Final Weight/Volume:	10000 uL
Analysis Date:	01/27/2012 1502			Injection Volume:	1 uL
Prep Date:	01/23/2012 1946			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		48000		450
C10-C36		64000		450

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	0	D	49 - 115

General Chemistry

Client Sample ID: **SS-1**

Lab Sample ID: 280-24850-1 Date Sampled: 01/19/2012 1100

Client Matrix: Solid Date Received: 01/20/2012 1310

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 280-104549	Analysis Date: 01/24/2012 0732					DryWt Corrected: N

General Chemistry

Client Sample ID: **SS-2**

Lab Sample ID: 280-24850-2 Date Sampled: 01/19/2012 1114

Client Matrix: Solid Date Received: 01/20/2012 1310

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 280-104549	Analysis Date: 01/24/2012 0732					DryWt Corrected: N

General Chemistry

Client Sample ID: **SS-3**

Lab Sample ID: 280-24850-3 Date Sampled: 01/19/2012 1126

Client Matrix: Solid Date Received: 01/20/2012 1310

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Moisture	12		%	0.10	1.0	Moisture
Analysis Batch: 280-104549	Analysis Date: 01/24/2012 0732					DryWt Corrected: N

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Surrogate Recovery Report

8015B Gasoline Range Organics - (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TFT1 %Rec
280-24850-1	SS-1	0D
280-24850-2	SS-2	0D
280-24850-3	SS-3	148D
MB 280-104602/5-A		95
LCS 280-104602/1-A		104
LCSD 280-104602/2-A		102
280-24851-C-3-B MS		93
280-24851-C-3-C MSD		95

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene	77-123

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Surrogate Recovery Report

8021B Volatile Organic Compounds (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TFT1 %Rec	TFT2 %Rec
280-24850-1	SS-1	105D	75D
280-24850-2	SS-2	100D	68D
280-24850-3	SS-3	93D	45D
MB 280-104602/5-A		119X	117X
LCS 280-104602/3-A		97	96
LCSD 280-104602/4-A		96	95

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene	82-115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Surrogate Recovery Report

8015B Diesel Range Organics (DRO) (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	OTPH1 %Rec
280-24850-1	SS-1	0D
280-24850-2	SS-2	0D
280-24850-3	SS-3	0D
MB 280-104523/1-A		106
LCS 280-104523/2-A		107
280-24851-B-1-B MS		97
280-24851-B-1-C MSD		79

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	49-115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Method Blank - Batch: 280-104602

Method: 8015B
Preparation: 5030B

Lab Sample ID:	MB 280-104602/5-A	Analysis Batch:	280-104736	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-104602	Lab File ID:	128F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.12 g
Analysis Date:	01/24/2012 1444	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	01/24/2012 1037			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C6-C10	ND		1.2

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	95	77 - 123

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-104602

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-104602/1-A	Analysis Batch:	280-104736	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-104602	Lab File ID:	126F0301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.05 g
Analysis Date:	01/24/2012 1330	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	01/24/2012 1037			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-104602/2-A	Analysis Batch:	280-104736	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-104602	Lab File ID:	127F0401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.14 g
Analysis Date:	01/24/2012 1407	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	01/24/2012 1037			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C6-C10	105	104	85 - 153	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	104	102	77 - 123

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-104602

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-104602/1-A	Units: mg/Kg	LCSD Lab Sample ID:	LCSD 280-104602/2-A	
Client Matrix:	Solid		Client Matrix:	Solid	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	01/24/2012 1330		Analysis Date:	01/24/2012 1407	
Prep Date:	01/24/2012 1037		Prep Date:	01/24/2012 1037	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	5.47	5.42	5.76	5.63

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-104602

Method: 8015B
Preparation: 5030B

MS Lab Sample ID:	280-24851-C-3-B MS	Analysis Batch:	280-104882	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-104602	Lab File ID:	202F1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.28 g
Analysis Date:	01/25/2012 1559			Final Weight/Volume:	500 mL
Prep Date:	01/24/2012 1037			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY
MSD Lab Sample ID:	280-24851-C-3-C MSD	Analysis Batch:	280-104882	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-104602	Lab File ID:	203F1101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.43 g
Analysis Date:	01/25/2012 1637			Final Weight/Volume:	500 mL
Prep Date:	01/24/2012 1037			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Gasoline Range Organics (GRO)-C6-C10	91	93	85 - 153	2	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	93	95	77 - 123

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-104602

Method: 8015B
Preparation: 5030B

MS Lab Sample ID:	280-24851-C-3-B MS	Units: mg/Kg	MSD Lab Sample ID:	280-24851-C-3-C MSD	
Client Matrix:	Solid		Client Matrix:	Solid	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	01/25/2012 1559		Analysis Date:	01/25/2012 1637	
Prep Date:	01/24/2012 1037		Prep Date:	01/24/2012 1037	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	ND	5.88	5.79	5.33	5.42

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Method Blank - Batch: 280-104602

Method: 8021B
Preparation: 5030B

Lab Sample ID:	MB 280-104602/5-A	Analysis Batch:	280-105566	Instrument ID:	GCV_H
Client Matrix:	Solid	Prep Batch:	280-104602	Lab File ID:	216B1801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.12 g
Analysis Date:	01/30/2012 2248	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	01/24/2012 1037			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	RL
Benzene	ND		49
Ethylbenzene	ND		49
Toluene	ND		49
m-Xylene & p-Xylene	ND		49
o-Xylene	ND		49
Naphthalene	ND		49

Surrogate	% Rec		Acceptance Limits
a,a,a-Trifluorotoluene	119	X	82 - 115

Surrogate	% Rec		Acceptance Limits
a,a,a-Trifluorotoluene	117	X	82 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-104602

Method: 8021B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-104602/3-A	Analysis Batch:	280-105566	Instrument ID:	GCV_H
Client Matrix:	Solid	Prep Batch:	280-104602	Lab File ID:	213B1501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.06 g
Analysis Date:	01/30/2012 2109	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	01/24/2012 1037			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-104602/4-A	Analysis Batch:	280-105566	Instrument ID:	GCV_H
Client Matrix:	Solid	Prep Batch:	280-104602	Lab File ID:	214B1601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.01 g
Analysis Date:	01/30/2012 2142	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	01/24/2012 1037			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	86	87	85 - 115	2	15		
Ethylbenzene	94	94	85 - 115	1	17		
Methyl tert-butyl ether	95	93	85 - 115	1	15		
Toluene	90	91	85 - 115	1	15		
m-Xylene & p-Xylene	94	94	85 - 115	1	15		
o-Xylene	95	96	85 - 115	2	15		
Naphthalene	98	101	85 - 115	3	15		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	97	96	82 - 115

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	96	95	82 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-104602

Method: 8021B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-104602/3-A	Units: ug/Kg		LCSD Lab Sample ID:	LCSD 280-104602/4-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/30/2012 2109			Analysis Date:	01/30/2012 2142
Prep Date:	01/24/2012 1037			Prep Date:	01/24/2012 1037
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	997	1000	861	875
Ethylbenzene	996	1000	933	944
Methyl tert-butyl ether	993	998	939	925
Toluene	996	1000	898	907
m-Xylene & p-Xylene	1990	2000	1870	1890
o-Xylene	985	990	939	954
Naphthalene	994	999	979	1010

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Method Blank - Batch: 280-104523

Method: 8015B
Preparation: 3546

Lab Sample ID:	MB 280-104523/1-A	Analysis Batch:	280-105490	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-104523	Lab File ID:	037B3701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	01/27/2012 1309	Units:	mg/Kg	Final Weight/Volume:	1000 uL
Prep Date:	01/23/2012 1946			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		3.9
C10-C36	ND		3.9

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	106	49 - 115

Lab Control Sample - Batch: 280-104523

Method: 8015B
Preparation: 3546

Lab Sample ID:	LCS 280-104523/2-A	Analysis Batch:	280-105490	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-104523	Lab File ID:	038B3801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.1 g
Analysis Date:	01/27/2012 1337	Units:	mg/Kg	Final Weight/Volume:	1000 uL
Prep Date:	01/23/2012 1946			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel Range Organics [C10-C28]	64.3	72.3	112	53 - 115	
C10-C36	64.3	71.8	112	57 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	107	49 - 115

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-104523

Method: 8015B
Preparation: 3546

MS Lab Sample ID:	280-24851-B-1-B MS	Analysis Batch:	280-105490	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-104523	Lab File ID:	043B4301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	01/27/2012 1559			Final Weight/Volume:	1000 uL
Prep Date:	01/23/2012 1946			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-24851-B-1-C MSD	Analysis Batch:	280-105490	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-104523	Lab File ID:	044B4401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.8 g
Analysis Date:	01/27/2012 1627			Final Weight/Volume:	1000 uL
Prep Date:	01/23/2012 1946			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diesel Range Organics [C10-C28]	116	87	56 - 115	25	23	F	F
C10-C36	170	48	57 - 115	58	23	F	F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	97	79	49 - 115

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-104523

Method: 8015B
Preparation: 3546

MS Lab Sample ID:	280-24851-B-1-B MS	Units:	mg/Kg	MSD Lab Sample ID:	280-24851-B-1-C MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/27/2012 1559			Analysis Date:	01/27/2012 1627
Prep Date:	01/23/2012 1946			Prep Date:	01/23/2012 1946
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Diesel Range Organics [C10-C28]	20	70.1	67.6	101	F	78.5	F
C10-C36	73	70.1	67.6	192	F	105	F

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Duplicate - Batch: 280-104549

Method: Moisture
Preparation: N/A

Lab Sample ID:	280-24914-A-1 DU	Analysis Batch:	280-104549	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/24/2012 0732	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	19	19	0.06	20	

DATA REPORTING QUALIFIERS

Client: Colorado Oil&Gas Conservation Commision Job Number: 280-24850-1

Lab Section	Qualifier	Description
GC VOA		
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
	X	Surrogate is outside control limits
	P	The %RPD between the primary and confirmation column/detector is >40%. The higher value has been reported
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
GC Semi VOA		
	F	MS or MSD exceeds the control limits
	F	RPD of the MS and MSD exceeds the control limits
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 280-104602					
LCS 280-104602/1-A	Lab Control Sample	T	Solid	5030B	
LCS 280-104602/3-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-104602/2-A	Lab Control Sample Duplicate	T	Solid	5030B	
LCSD 280-104602/4-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-104602/5-A	Method Blank	T	Solid	5030B	
280-24850-1	SS-1	T	Solid	5030B	
280-24850-2	SS-2	T	Solid	5030B	
280-24850-3	SS-3	T	Solid	5030B	
280-24851-C-3-B MS	Matrix Spike	T	Solid	5030B	
280-24851-C-3-C MSD	Matrix Spike Duplicate	T	Solid	5030B	
Analysis Batch:280-104736					
LCS 280-104602/1-A	Lab Control Sample	T	Solid	8015B	280-104602
LCSD 280-104602/2-A	Lab Control Sample Duplicate	T	Solid	8015B	280-104602
MB 280-104602/5-A	Method Blank	T	Solid	8015B	280-104602
Analysis Batch:280-104882					
280-24850-1	SS-1	T	Solid	8015B	280-104602
280-24850-2	SS-2	T	Solid	8015B	280-104602
280-24850-3	SS-3	T	Solid	8015B	280-104602
280-24851-C-3-B MS	Matrix Spike	T	Solid	8015B	280-104602
280-24851-C-3-C MSD	Matrix Spike Duplicate	T	Solid	8015B	280-104602
Analysis Batch:280-105566					
LCS 280-104602/3-A	Lab Control Sample	T	Solid	8021B	280-104602
LCSD 280-104602/4-A	Lab Control Sample Duplicate	T	Solid	8021B	280-104602
MB 280-104602/5-A	Method Blank	T	Solid	8021B	280-104602
280-24850-1	SS-1	T	Solid	8021B	280-104602
280-24850-2	SS-2	T	Solid	8021B	280-104602
280-24850-3	SS-3	T	Solid	8021B	280-104602

Report Basis
T = Total

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-104523					
LCS 280-104523/2-A	Lab Control Sample	T	Solid	3546	
MB 280-104523/1-A	Method Blank	T	Solid	3546	
280-24850-1	SS-1	T	Solid	3546	
280-24850-2	SS-2	T	Solid	3546	
280-24850-3	SS-3	T	Solid	3546	
280-24851-B-1-B MS	Matrix Spike	T	Solid	3546	
280-24851-B-1-C MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:280-105490					
LCS 280-104523/2-A	Lab Control Sample	T	Solid	8015B	280-104523
MB 280-104523/1-A	Method Blank	T	Solid	8015B	280-104523
280-24850-1	SS-1	T	Solid	8015B	280-104523
280-24850-2	SS-2	T	Solid	8015B	280-104523
280-24850-3	SS-3	T	Solid	8015B	280-104523
280-24851-B-1-B MS	Matrix Spike	T	Solid	8015B	280-104523
280-24851-B-1-C MSD	Matrix Spike Duplicate	T	Solid	8015B	280-104523

Report Basis

T = Total

General Chemistry					
Analysis Batch:280-104549					
280-24850-1	SS-1	T	Solid	Moisture	
280-24850-2	SS-2	T	Solid	Moisture	
280-24850-3	SS-3	T	Solid	Moisture	
280-24914-A-1 DU	Duplicate	T	Solid	Moisture	

Report Basis

T = Total

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Laboratory Chronicle

Lab ID: 280-24850-1 **Client ID:** SS-1

Sample Date/Time: 01/19/2012 11:00 Received Date/Time: 01/20/2012 13:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-24850-A-1-B		280-104882	280-104602	01/24/2012 10:37	50	TAL DEN	AMB
A:8015B	280-24850-A-1-B		280-104882	280-104602	01/25/2012 11:36	50	TAL DEN	AMB
P:5030B	280-24850-A-1-B		280-105566	280-104602	01/24/2012 10:37	10	TAL DEN	AMB
A:8021B	280-24850-A-1-B		280-105566	280-104602	01/30/2012 23:20	10	TAL DEN	MPS
P:3546	280-24850-A-1-A		280-105490	280-104523	01/23/2012 19:46	10	TAL DEN	JJW
A:8015B	280-24850-A-1-A		280-105490	280-104523	01/27/2012 14:06	10	TAL DEN	MRB
A:Moisture	280-24850-A-1		280-104549		01/24/2012 07:32	1	TAL DEN	PBB

Lab ID: 280-24850-2 **Client ID:** SS-2

Sample Date/Time: 01/19/2012 11:14 Received Date/Time: 01/20/2012 13:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-24850-A-2-B		280-104882	280-104602	01/24/2012 10:37	50	TAL DEN	AMB
A:8015B	280-24850-A-2-B		280-104882	280-104602	01/25/2012 12:14	50	TAL DEN	AMB
P:5030B	280-24850-A-2-B		280-105566	280-104602	01/24/2012 10:37	10	TAL DEN	AMB
A:8021B	280-24850-A-2-B		280-105566	280-104602	01/31/2012 00:26	10	TAL DEN	MPS
P:3546	280-24850-A-2-A		280-105490	280-104523	01/23/2012 19:46	10	TAL DEN	JJW
A:8015B	280-24850-A-2-A		280-105490	280-104523	01/27/2012 14:34	10	TAL DEN	MRB
A:Moisture	280-24850-A-2		280-104549		01/24/2012 07:32	1	TAL DEN	PBB

Lab ID: 280-24850-3 **Client ID:** SS-3

Sample Date/Time: 01/19/2012 11:26 Received Date/Time: 01/20/2012 13:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-24850-A-3-B		280-104882	280-104602	01/24/2012 10:37	20	TAL DEN	AMB
A:8015B	280-24850-A-3-B		280-104882	280-104602	01/25/2012 12:53	20	TAL DEN	AMB
P:5030B	280-24850-A-3-B		280-105566	280-104602	01/24/2012 10:37	10	TAL DEN	AMB
A:8021B	280-24850-A-3-B		280-105566	280-104602	01/31/2012 01:31	10	TAL DEN	MPS
P:3546	280-24850-A-3-A		280-105490	280-104523	01/23/2012 19:46	10	TAL DEN	JJW
A:8015B	280-24850-A-3-A		280-105490	280-104523	01/27/2012 15:02	10	TAL DEN	MRB
A:Moisture	280-24850-A-3		280-104549		01/24/2012 07:32	1	TAL DEN	PBB

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Laboratory Chronicle

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
P:5030B	MB 280-104602/5-A		280-104736	280-104602	01/24/2012 10:37	1	TAL DEN	AMB
A:8015B	MB 280-104602/5-A		280-104736	280-104602	01/24/2012 14:44	1	TAL DEN	AMB
P:5030B	MB 280-104602/5-A		280-105566	280-104602	01/24/2012 10:37	1	TAL DEN	AMB
A:8021B	MB 280-104602/5-A		280-105566	280-104602	01/30/2012 22:48	1	TAL DEN	MPS
P:3546	MB 280-104523/1-A		280-105490	280-104523	01/23/2012 19:46	1	TAL DEN	JJW
A:8015B	MB 280-104523/1-A		280-105490	280-104523	01/27/2012 13:09	1	TAL DEN	MRB

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
P:5030B	LCS 280-104602/1-A		280-104736	280-104602	01/24/2012 10:37	1	TAL DEN	AMB
A:8015B	LCS 280-104602/1-A		280-104736	280-104602	01/24/2012 13:30	1	TAL DEN	AMB
P:5030B	LCS 280-104602/3-A		280-105566	280-104602	01/24/2012 10:37	1	TAL DEN	AMB
A:8021B	LCS 280-104602/3-A		280-105566	280-104602	01/30/2012 21:09	1	TAL DEN	MPS
P:3546	LCS 280-104523/2-A		280-105490	280-104523	01/23/2012 19:46	1	TAL DEN	JJW
A:8015B	LCS 280-104523/2-A		280-105490	280-104523	01/27/2012 13:37	1	TAL DEN	MRB

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
P:5030B	LCSD 280-104602/2-A		280-104736	280-104602	01/24/2012 10:37	1	TAL DEN	AMB
A:8015B	LCSD 280-104602/2-A		280-104736	280-104602	01/24/2012 14:07	1	TAL DEN	AMB
P:5030B	LCSD 280-104602/4-A		280-105566	280-104602	01/24/2012 10:37	1	TAL DEN	AMB
A:8021B	LCSD 280-104602/4-A		280-105566	280-104602	01/30/2012 21:42	1	TAL DEN	MPS

Lab ID: MS **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
P:5030B	280-24851-C-3-B MS		280-104882	280-104602	01/24/2012 10:37	1	TAL DEN	AMB
A:8015B	280-24851-C-3-B MS		280-104882	280-104602	01/25/2012 15:59	1	TAL DEN	AMB
P:3546	280-24851-B-1-B MS		280-105490	280-104523	01/23/2012 19:46	1	TAL DEN	JJW
A:8015B	280-24851-B-1-B MS		280-105490	280-104523	01/27/2012 15:59	1	TAL DEN	MRB

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Laboratory Chronicle

Lab ID: **MSD** **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
P:5030B	280-24851-C-3-C MSD		280-104882	280-104602	01/24/2012 10:37	1	TAL DEN	AMB
A:8015B	280-24851-C-3-C MSD		280-104882	280-104602	01/25/2012 16:37	1	TAL DEN	AMB
P:3546	280-24851-B-1-C MSD		280-105490	280-104523	01/23/2012 19:46	1	TAL DEN	JJW
A:8015B	280-24851-B-1-C MSD		280-105490	280-104523	01/27/2012 16:27	1	TAL DEN	MRB

Lab ID: **DU** **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:Moisture	280-24914-A-1 DU		280-104549		01/24/2012 07:32	1	TAL DEN	PBB

Lab References:

TAL DEN = TestAmerica Denver

Certification Summary

Client: Colorado Oil&Gas Conservation Commision
Project/Site: Beren Cook Battery NOAV #200337810

TestAmerica Job ID: 280-24850-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8015B - GRO

Gasoline Range Organics (GC) by Method 8015B

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-1 Lab Sample ID: 280-24850-1

Matrix: Solid Lab File ID: 127F0301.D

Analysis Method: 8015B Date Collected: 01/19/2012 11:00

Sample wt/vol: 10.23(g) Date Analyzed: 01/25/2012 11:36

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 500(mL) GC Column: RTX 502.2 (105) ID: 0.53(mm)

% Moisture: 15.7 Level: (low/med) Medium

Analysis Batch No.: 104882 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	1500		70

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	0	D	77-123

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_L.i\0125121.B\127F0301.D
Lab Smp Id: 280-24850-A-1-B Client Smp ID: SS-1
Inj Date : 25-JAN-2012 11:36
Operator : AMB Inst ID: GC_L.i
Smp Info : 280-1222815,50-1
Misc Info : 280-24850-A-1-B
Comment   : REV. OLMO1.1.1
Method   : \\DenSvr03\Public\chem\GCV\GC_L.i\0125121.B\8015.m
Meth Date : 25-Jan-2012 11:05 target Quant Type: ESTD
Cal Date : 28-DEC-2011 14:32 Cal File: 132F0501.D
Als bottle: 127
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: GRO.S.01.sub
Target Version: 4.14
Processing Host: DENPC382

Concentration Formula: Amt * DF * Uf * Vp/Va * Vf/Ws * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	1000.000	ng unit correction factor (mg/g)
Ws	10.230	Weight of sample extracted (g)
Vp	5.000	final purge volume (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction (ml)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
$	2 Trifluorotoluene	Compound Not Detected.					
S	3 GRO - C6 to C10	7.100-20.327			2885954	504.746	1233490(M)
	4 1-Chloro-4-Fluorobenzene	16.800	16.776	0.024	313495	39.5608	96678.4(M)

QC Flag Legend

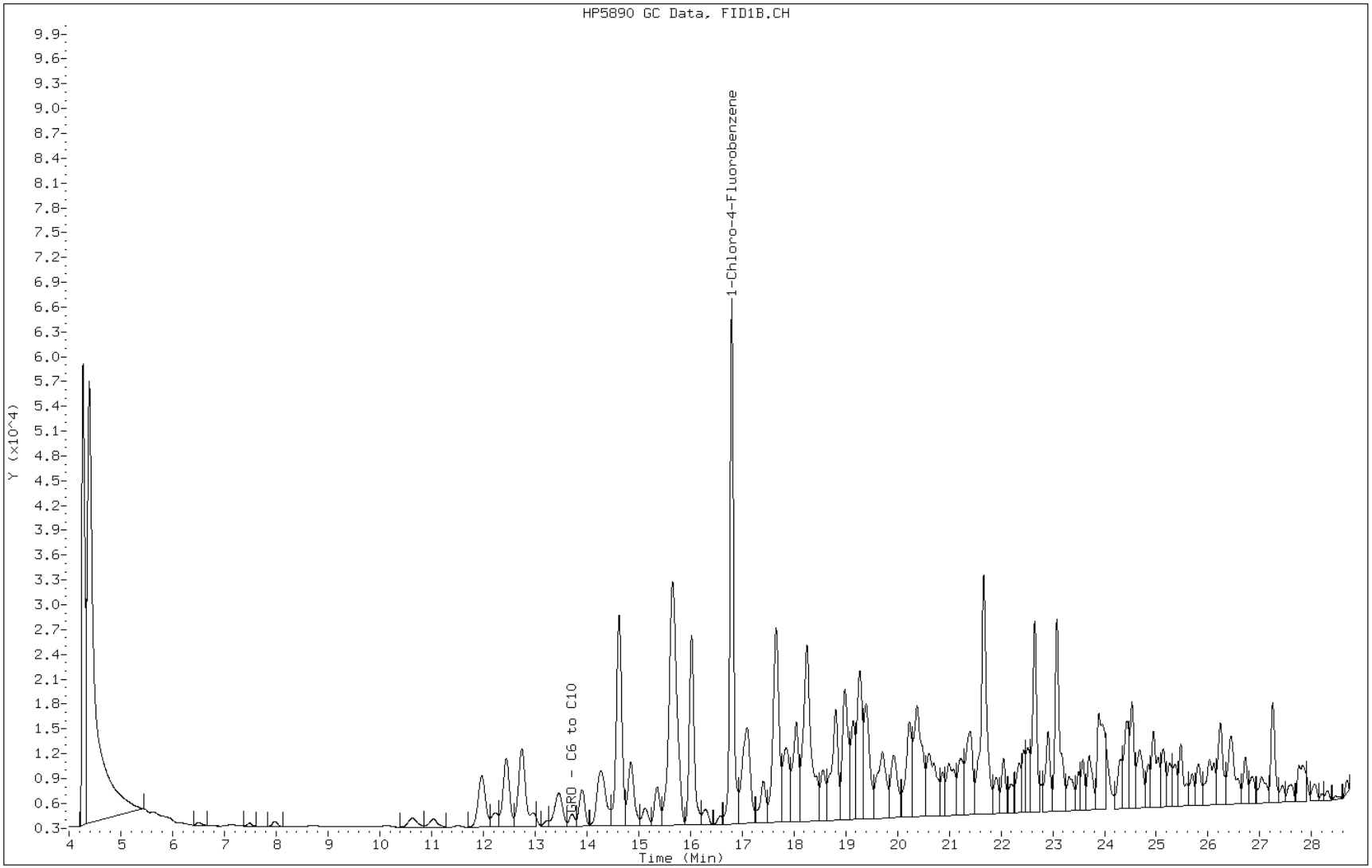
M - Compound response manually integrated.

Data File: 127F0301.D

Date: 25-JAN-2012 11:36

Client ID: SS-1 Instrument: GC_L.i

Sample Info: 280-1222815,50-1 Operator: AMB



Manual Integration Report

Data File: 127F0301.D
Inj. Date and Time: 25-JAN-2012 11:36
Instrument ID: GC_L.i
Client ID: SS-1
Compound: 3 GRO - C6 to C10
CAS #: 8006-61-9
Report Date: 01/26/2012

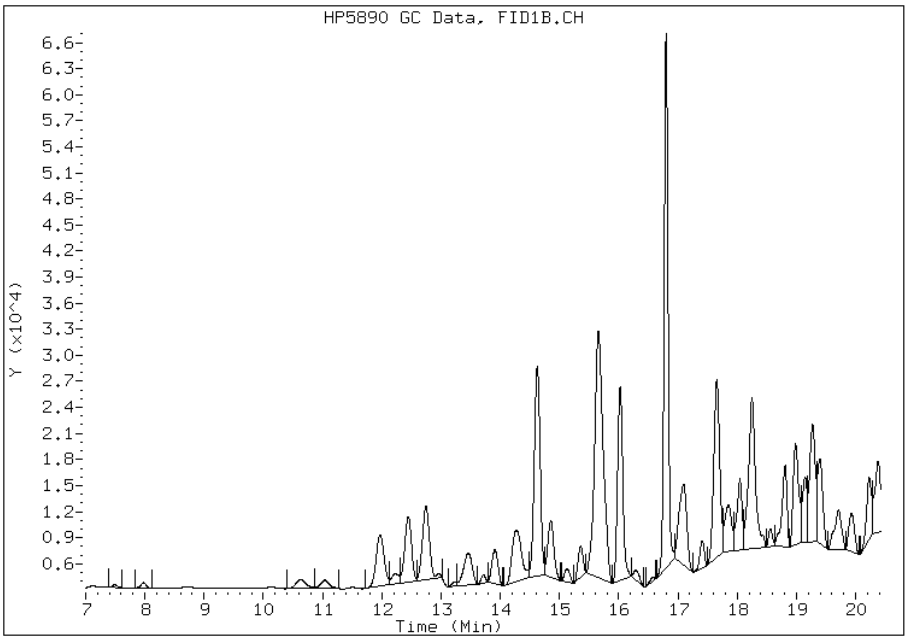
Processing Integration Results

RT: 13.71

Response: 1966244

Amount: 343.98

Conc: 840606.49



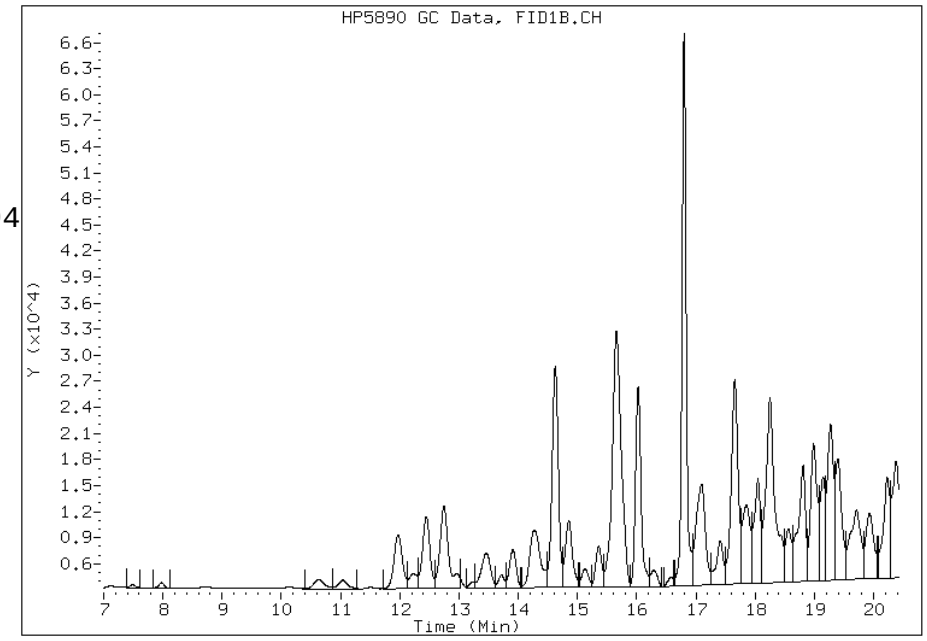
Manual Integration Results

RT: 13.71

Response: 2885954

Amount: 504.75

Conc: 1233494.94



Manually Integrated By: byla
Manual Integration Reason: Baseline Event

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-2 Lab Sample ID: 280-24850-2

Matrix: Solid Lab File ID: 128F0401.D

Analysis Method: 8015B Date Collected: 01/19/2012 11:14

Sample wt/vol: 10.04(g) Date Analyzed: 01/25/2012 12:14

Soil Aliquot Vol: 5 (mL) Dilution Factor: 50

Soil Extract Vol.: 500(mL) GC Column: RTX 502.2 (105) ID: 0.53(mm)

% Moisture: 15.7 Level: (low/med) Medium

Analysis Batch No.: 104882 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	1200		71

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	0	D	77-123

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_L.i\0125121.B\128F0401.D
Lab Smp Id: 280-24850-A-2-B Client Smp ID: SS-2
Inj Date : 25-JAN-2012 12:14
Operator : AMB Inst ID: GC_L.i
Smp Info : 280-1222816,50-2
Misc Info : 280-24850-A-2-B
Comment   : REV. OLMO1.1.1
Method   : \\DenSvr03\Public\chem\GCV\GC_L.i\0125121.B\8015.m
Meth Date : 25-Jan-2012 11:05 target Quant Type: ESTD
Cal Date : 28-DEC-2011 14:32 Cal File: 132F0501.D
Als bottle: 128
Dil Factor: 50.00000
Integrator: Falcon Compound Sublist: GRO.S.01.sub
Target Version: 4.14
Processing Host: DENPC382

Concentration Formula: Amt * DF * Uf * Vp/Va * Vf/Ws * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	1000.000	ng unit correction factor (mg/g)
Ws	10.040	Weight of sample extracted (g)
Vp	5.000	final purge volume (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction (ml)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
Compounds		RT	EXP RT	DLT RT	RESPONSE		
$	2 Trifluorotoluene	Compound Not Detected.					
S	3 GRO - C6 to C10	7.100-20.327			2403569	420.423	1046870(M)
	4 1-Chloro-4-Fluorobenzene	16.800	16.776	0.024	295660	37.3228	92935.3(M)

QC Flag Legend

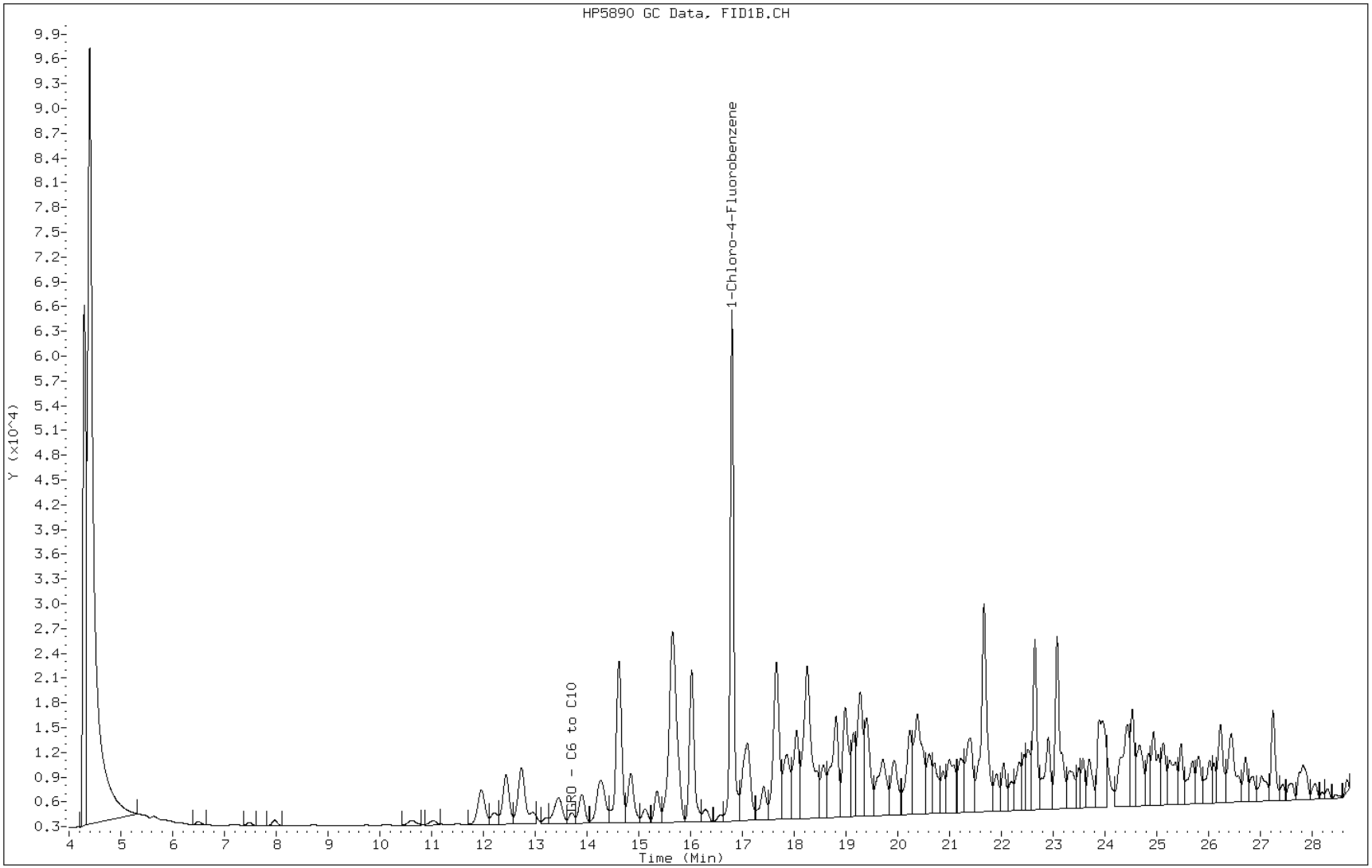
M - Compound response manually integrated.

Data File: 128F0401.D

Date: 25-JAN-2012 12:14

Client ID: SS-2 Instrument: GC_L.i

Sample Info: 280-1222816,50-2 Operator: AMB



Manual Integration Report

Data File: 128F0401.D
Inj. Date and Time: 25-JAN-2012 12:14
Instrument ID: GC_L.i
Client ID: SS-2
Compound: 3 GRO - C6 to C10
CAS #: 8006-61-9
Report Date: 01/26/2012

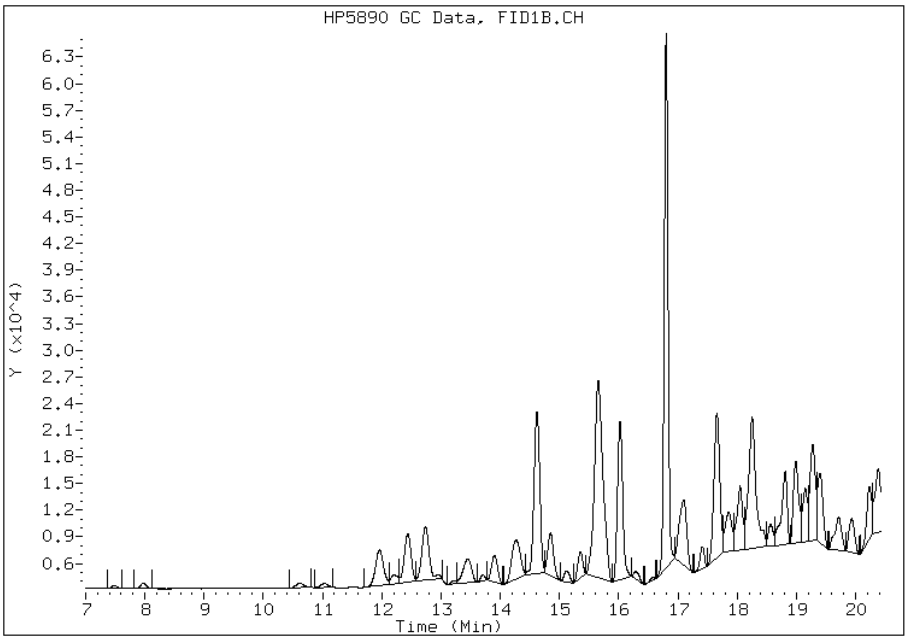
Processing Integration Results

RT: 13.71

Response: 1736144

Amount: 303.75

Conc: 756358.40



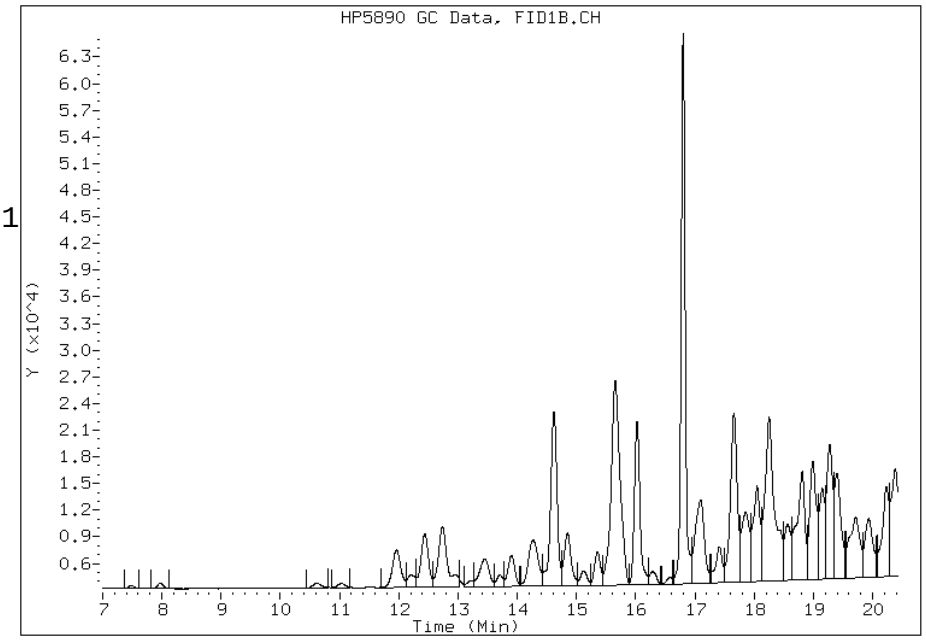
Manual Integration Results

RT: 13.71

Response: 2403569

Amount: 420.42

Conc: 1046869.51



Manually Integrated By: byla
Manual Integration Reason: Baseline Event

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-3 Lab Sample ID: 280-24850-3

Matrix: Solid Lab File ID: 129F0501.D

Analysis Method: 8015B Date Collected: 01/19/2012 11:26

Sample wt/vol: 10.26(g) Date Analyzed: 01/25/2012 12:53

Soil Aliquot Vol: 5 (mL) Dilution Factor: 20

Soil Extract Vol.: 500(mL) GC Column: RTX 502.2 (105) ID: 0.53(mm)

% Moisture: 12.4 Level: (low/med) Medium

Analysis Batch No.: 104882 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	970		27

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	148	D	77-123

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_L.i\0125121.B\129F0501.D
Lab Smp Id: 280-24850-A-3-B Client Smp ID: SS-3
Inj Date : 25-JAN-2012 12:53
Operator : AMB Inst ID: GC_L.i
Smp Info : 280-1222817,50-3
Misc Info : 280-24850-A-3-B
Comment   : REV. OLMO1.1.1
Method   : \\DenSvr03\Public\chem\GCV\GC_L.i\0125121.B\8015.m
Meth Date : 25-Jan-2012 11:05 target Quant Type: ESTD
Cal Date : 28-DEC-2011 14:32 Cal File: 132F0501.D
Als bottle: 129
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: GRO.S.01.sub
Target Version: 4.14
Processing Host: DENPC382

Concentration Formula: Amt * DF * Uf * Vp/Va * Vf/Ws * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1000.000	ng unit correction factor (mg/g)
Ws	10.260	Weight of sample extracted (g)
Vp	5.000	final purge volume (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction (ml)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
$	2 Trifluorotoluene	12.203	12.150	0.053	16311	2.21772	2161.52(aRM)
S	3 GRO - C6 to C10	7.100	-20.327		4981952	871.137	849062(M)
	4 1-Chloro-4-Fluorobenzene	16.806	16.776	0.030	387450	48.8408	47603.1(M)

QC Flag Legend

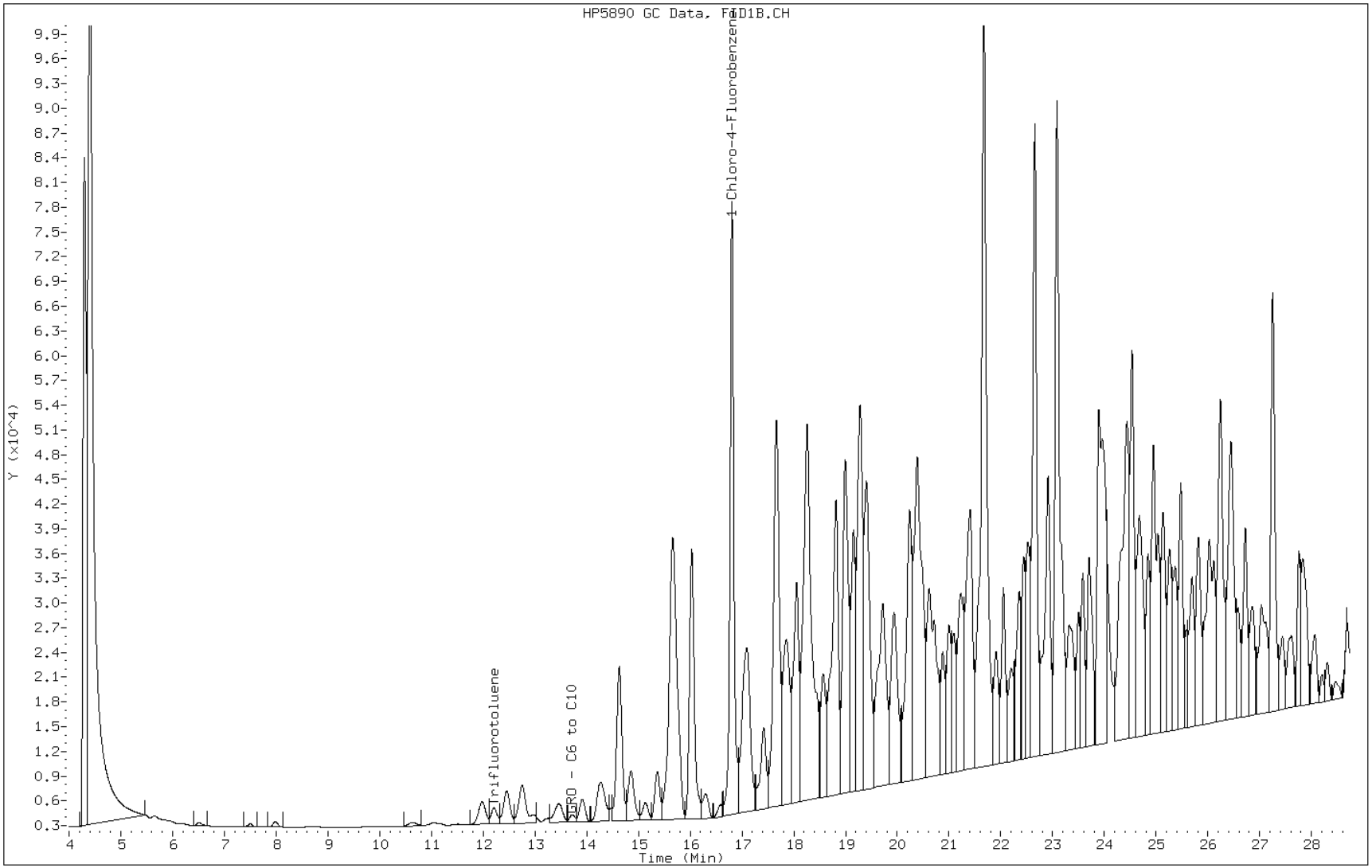
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 129F0501.D

Date: 25-JAN-2012 12:53

Client ID: SS-3 Instrument: GC_L.i

Sample Info: 280-1222817,50-3 Operator: AMB



Manual Integration Report

Data File: 129F0501.D
Inj. Date and Time: 25-JAN-2012 12:53
Instrument ID: GC_L.i
Client ID: SS-3
Compound: 2 Trifluorotoluene
CAS #: 98-08-8
Report Date: 01/26/2012

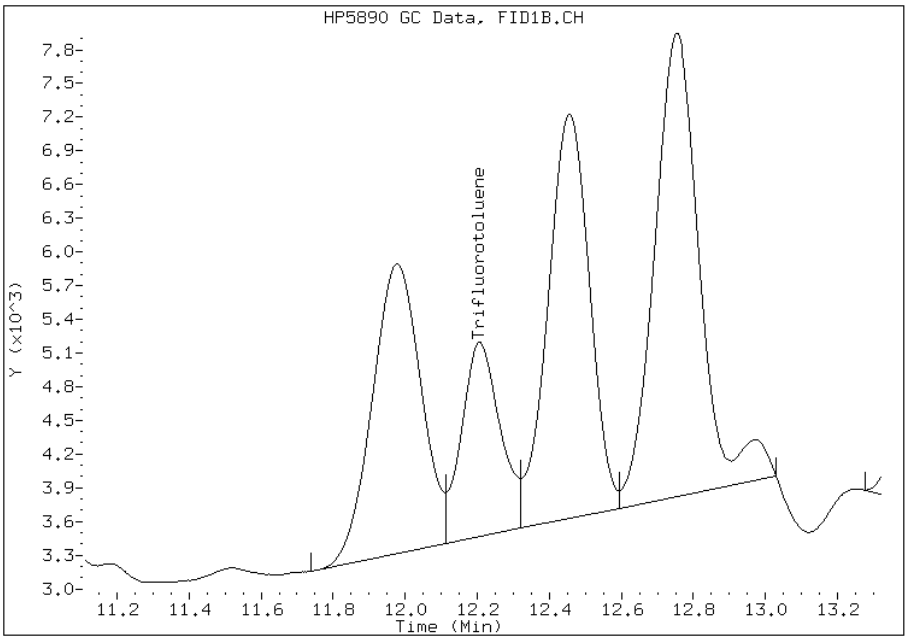
Processing Integration Results

RT: 12.20

Response: 12876

Amount: 1.78

Conc: 1736.72



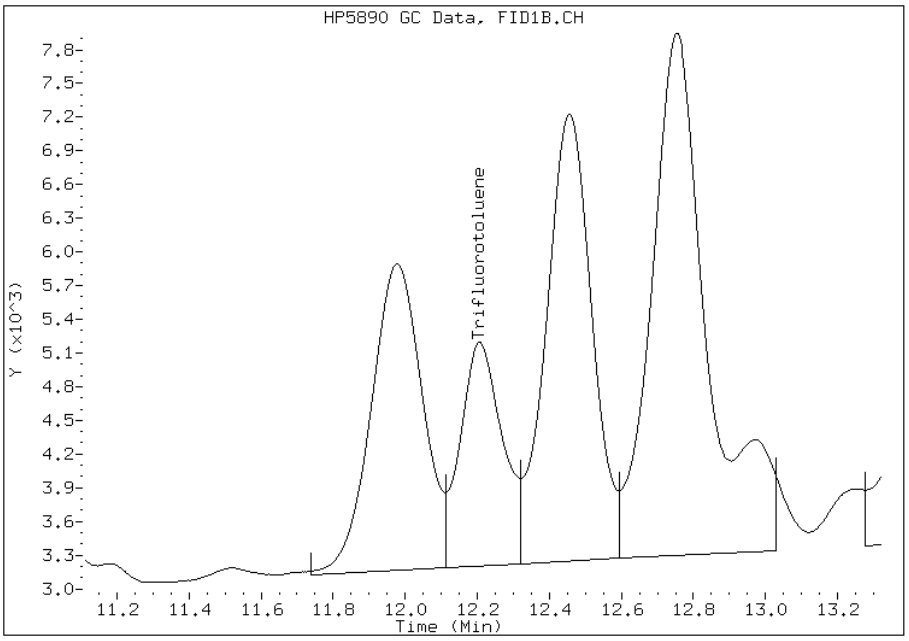
Manual Integration Results

RT: 12.20

Response: 16311

Amount: 2.22

Conc: 2161.52



Manually Integrated By: byla
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 129F0501.D
Inj. Date and Time: 25-JAN-2012 12:53
Instrument ID: GC_L.i
Client ID: SS-3
Compound: 3 GRO - C6 to C10
CAS #: 8006-61-9
Report Date: 01/26/2012

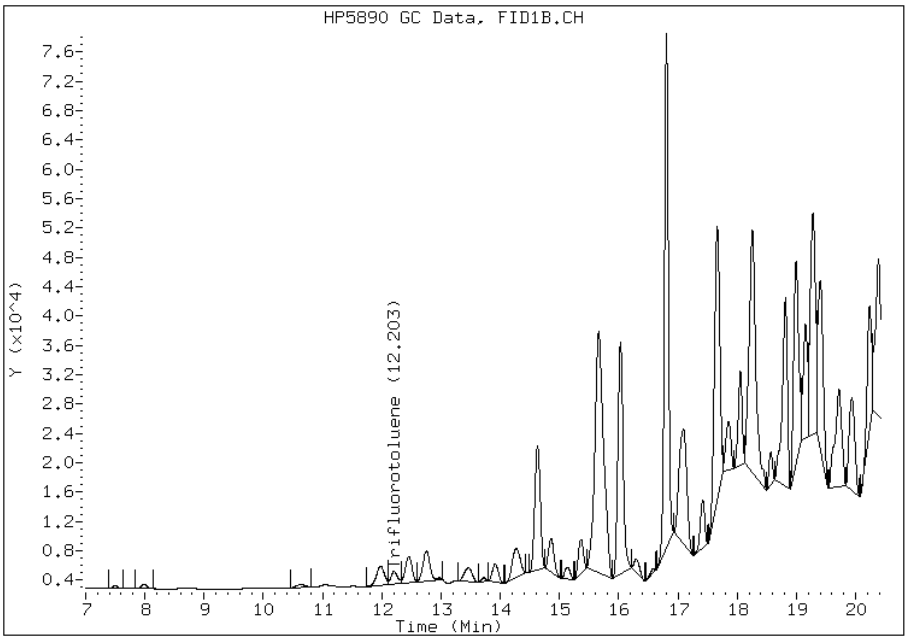
Processing Integration Results

RT: 13.71

Response: 2892625

Amount: 505.91

Conc: 493091.86



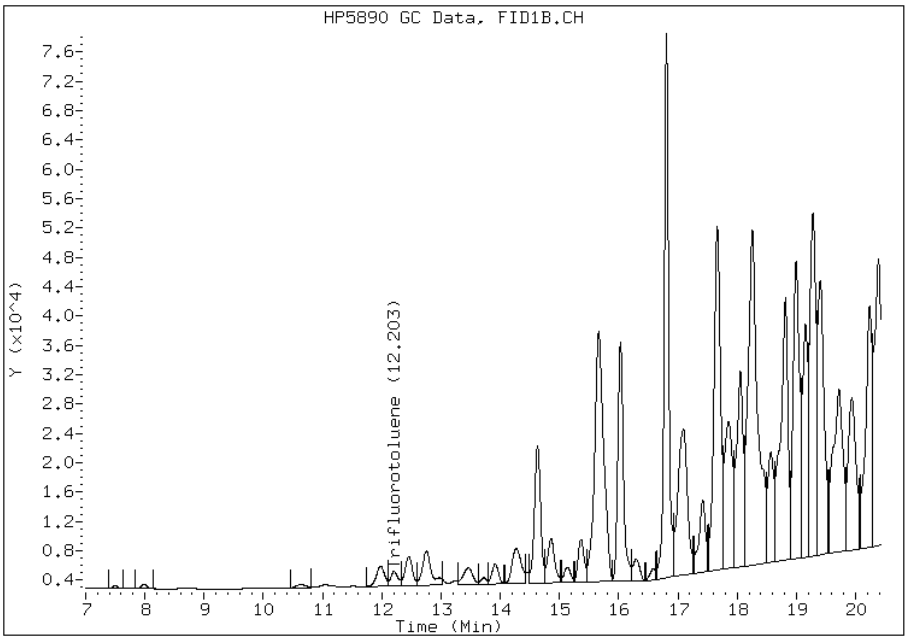
Manual Integration Results

RT: 13.71

Response: 4981952

Amount: 871.14

Conc: 849061.57



Manually Integrated By: byla
Manual Integration Reason: Baseline Event

Method 8021B

Volatile Organic Compounds (GC) by Method 8021B

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-1 Lab Sample ID: 280-24850-1

Matrix: Solid Lab File ID: 301B1901.D

Analysis Method: 8021B Date Collected: 01/19/2012 11:00

Sample wt/vol: 10.23(g) Date Analyzed: 01/30/2012 23:20

Soil Aliquot Vol: 5 (mL) Dilution Factor: 10

Soil Extract Vol.: 500(mL) GC Column: RTX 502.2 (60) ID: 0.53(mm)

% Moisture: 15.7 Level: (low/med) Medium

Analysis Batch No.: 105566 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	ND		580

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	75	*D*	82-115

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b1.B\301B1901.D
Lab Smp Id: 280-24850-A-1-B Client Smp ID: SS-1
Inj Date : 30-JAN-2012 23:20
Operator : mps Inst ID: GC_H.i
Smp Info : 280-1222815,1
Misc Info : 280-24850-A-1-B
Comment   : REV. OLMO1.1.1
Method   : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b1.B\H1.m
Meth Date : 31-Jan-2012 12:19 SmithM Quant Type: ISTD
Cal Date : 29-NOV-2011 15:45 Cal File: 115B0501.D
Als bottle: 301
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: mnBTEX.sub
Target Version: 4.14
Processing Host: DENPC290

Concentration Formula: Amt * DF * Uf*Vp/Va*Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Ws	10.230	Weight of sample extracted (g)
Uf	1000.000	unit correction factor (mg/g)
Vp	5.000	final volume purged (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction vlm (ml
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
1	Methyl tert-butylether	Compound Not Detected.					
2	Benzene	Compound Not Detected.					
$ 3	Trifluorotoluene	8.496	8.490	(0.669)	43109	2.26164	110.540(RM)
4	Toluene	Compound Not Detected.					
* 5	1-Chloro-4-fluorobenzene	12.706	12.716	(1.000)	832903	30.0000	(M)
7	Ethylbenzene	Compound Not Detected.					
8	m+p-Xylene	Compound Not Detected.					
9	o-Xylene	14.116	14.146	(1.111)	343989	7.97487	3897.78(M)
15	Naphthalene	20.523	20.513	(1.615)	257103	6.98172	3412.38(M)
M 16	Total Xylene				343989	7.97487	3897.78

QC Flag Legend

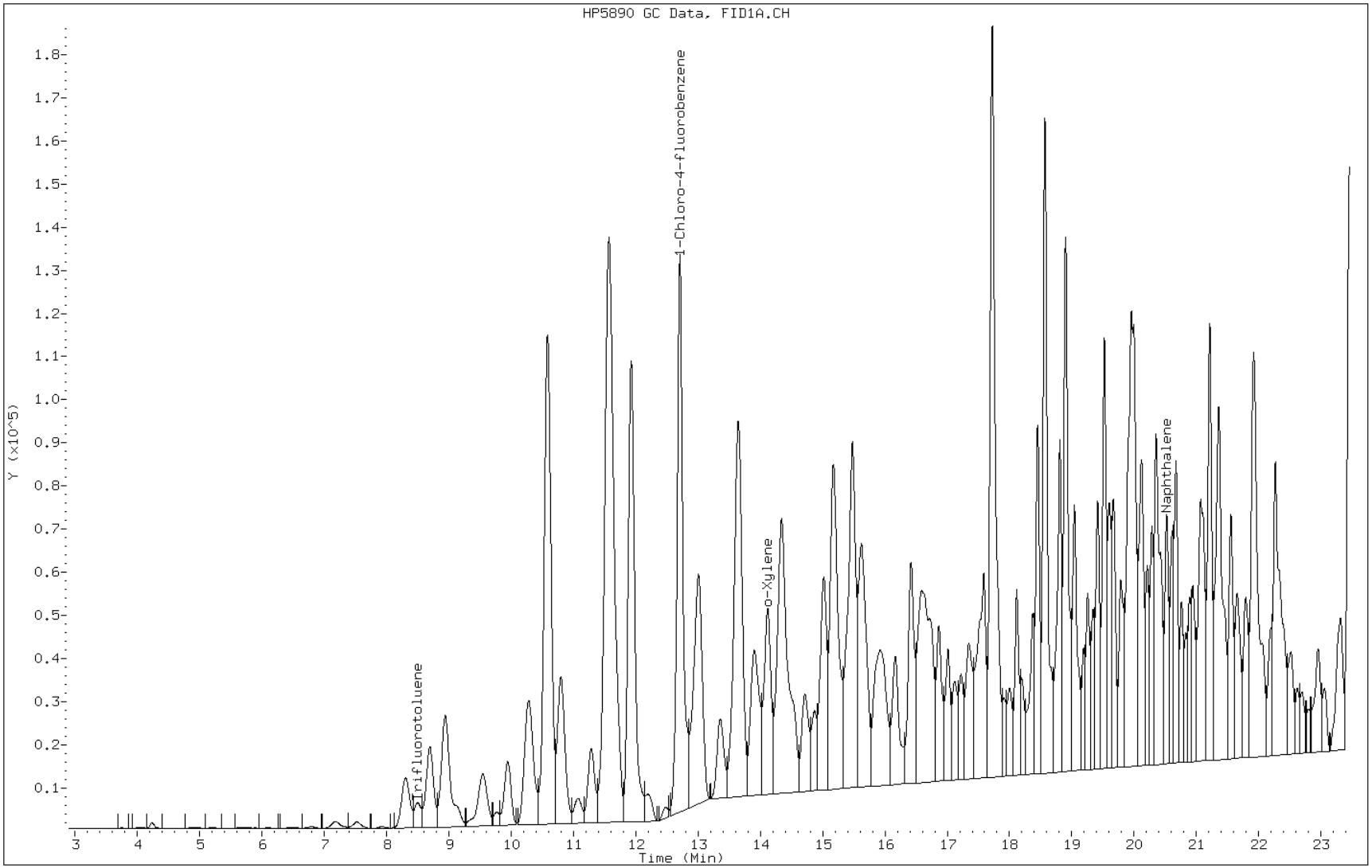
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 301B1901.D

Date: 30-JAN-2012 23:20

Client ID: SS-1 Instrument: GC_H.i

Sample Info: 280-1222815,1 Operator: mps



Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 9 o-Xylene
CAS #: 95-47-6
Report Date: 01/31/2012

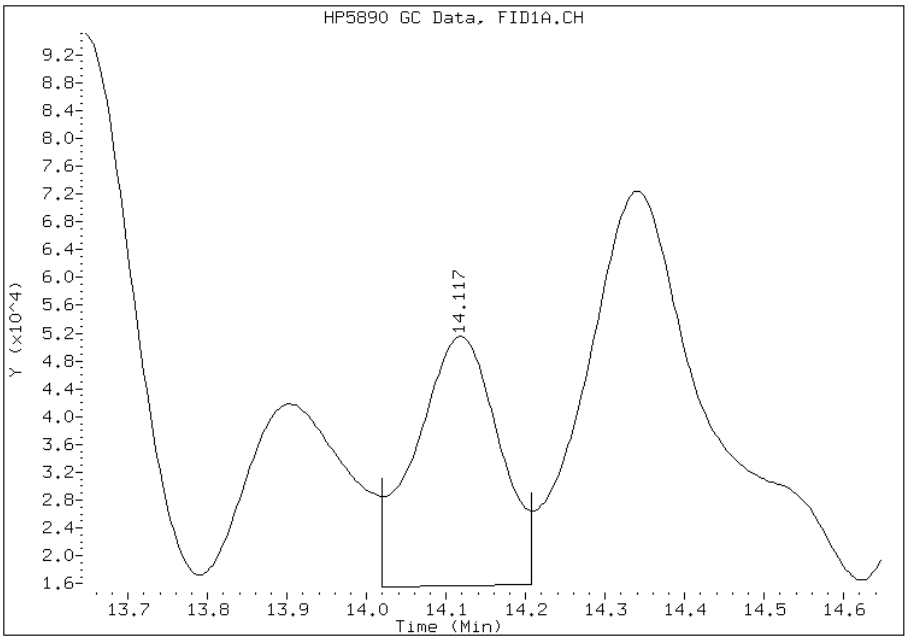
Processing Integration Results

RT: 14.12

Response: 260103

Amount: 6.00

Conc: 146574.37



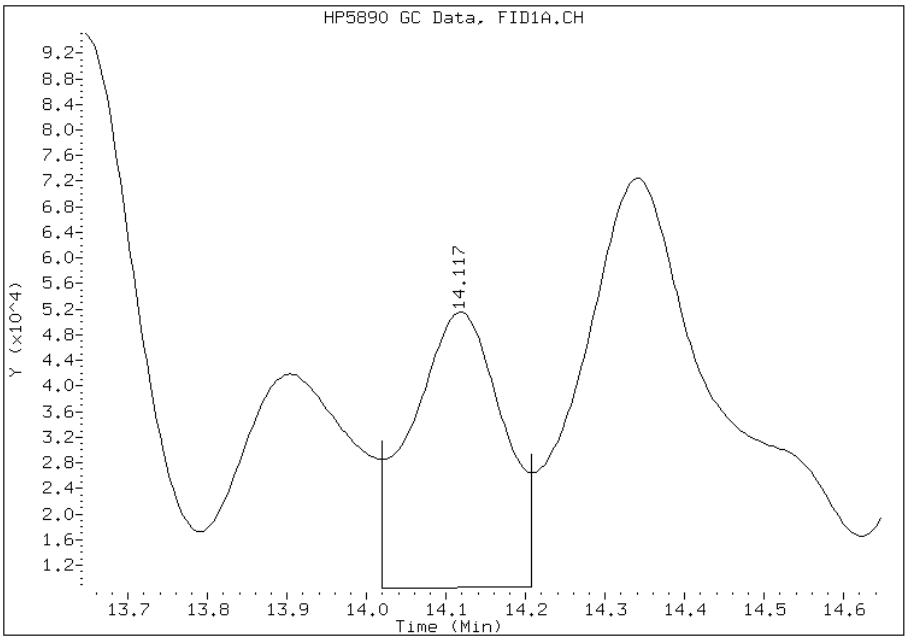
Manual Integration Results

RT: 14.12

Response: 343989

Amount: 7.97

Conc: 3897.78



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 3 Trifluorotoluene
CAS #: 98-08-8
Report Date: 01/31/2012

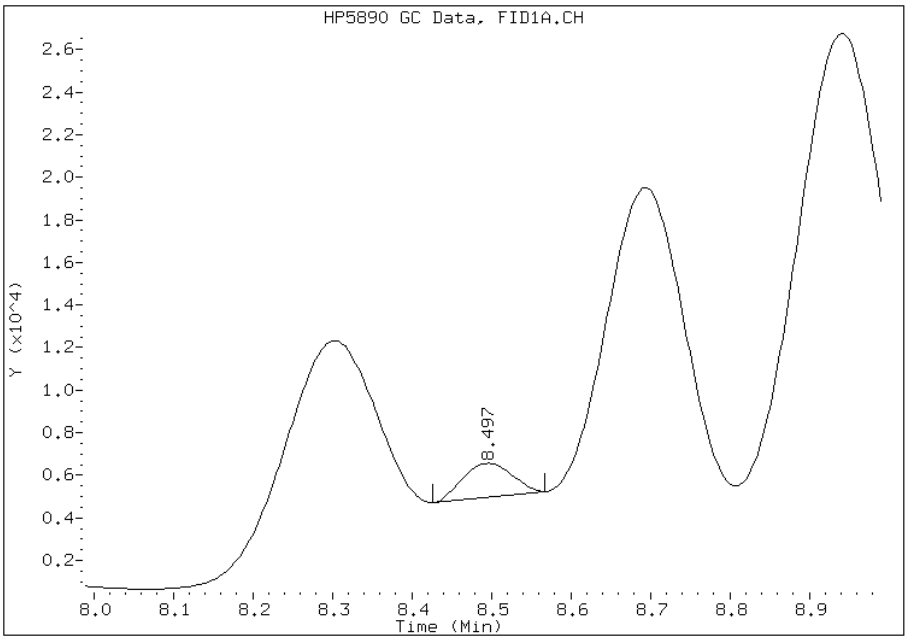
Processing Integration Results

RT: 8.50

Response: 6876

Amount: 0.17

Conc: 407.36



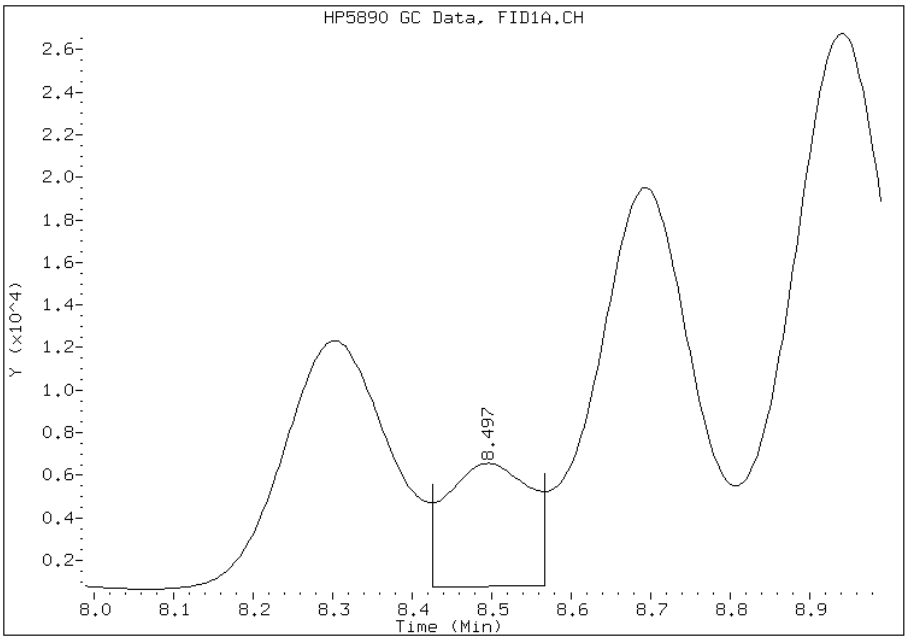
Manual Integration Results

RT: 8.50

Response: 43109

Amount: 2.26

Conc: 110.54



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 15 Naphthalene
CAS #: 91-20-3
Report Date: 01/31/2012

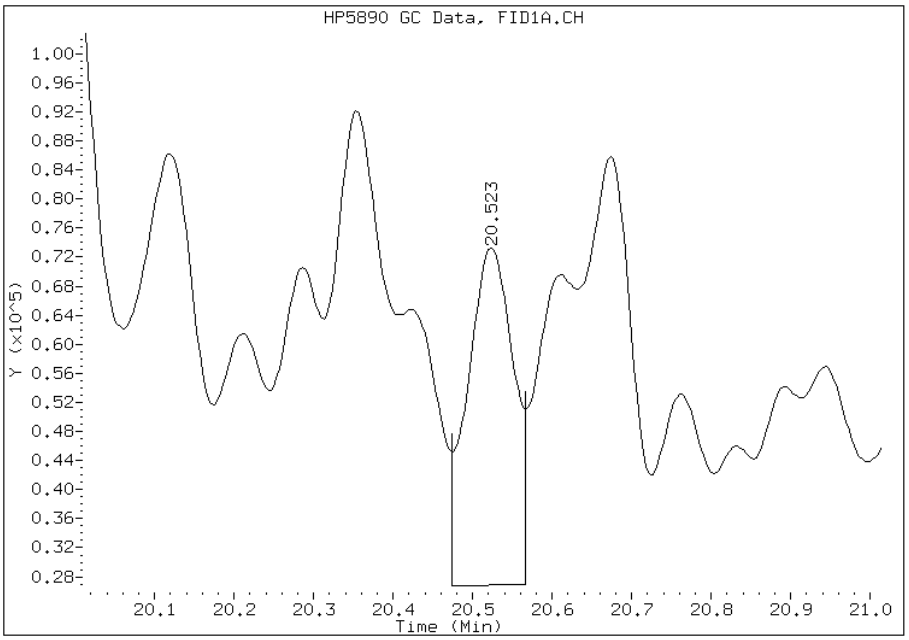
Processing Integration Results

RT: 20.52

Response: 187391

Amount: 4.92

Conc: 120140.01



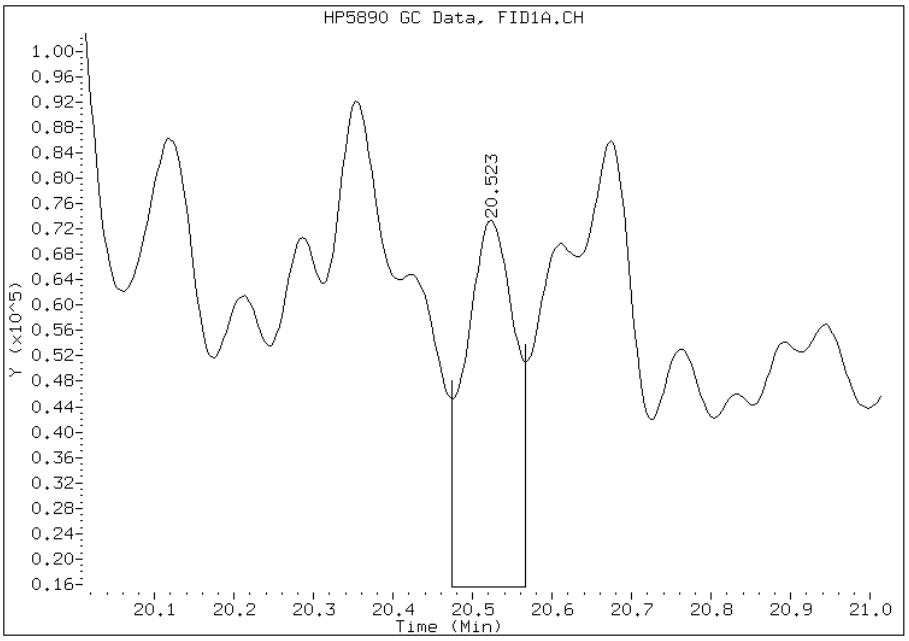
Manual Integration Results

RT: 20.52

Response: 257103

Amount: 6.98

Conc: 3412.38



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 5 1-Chloro-4-fluorobenzene
CAS #: 352-33-0
Report Date: 01/31/2012

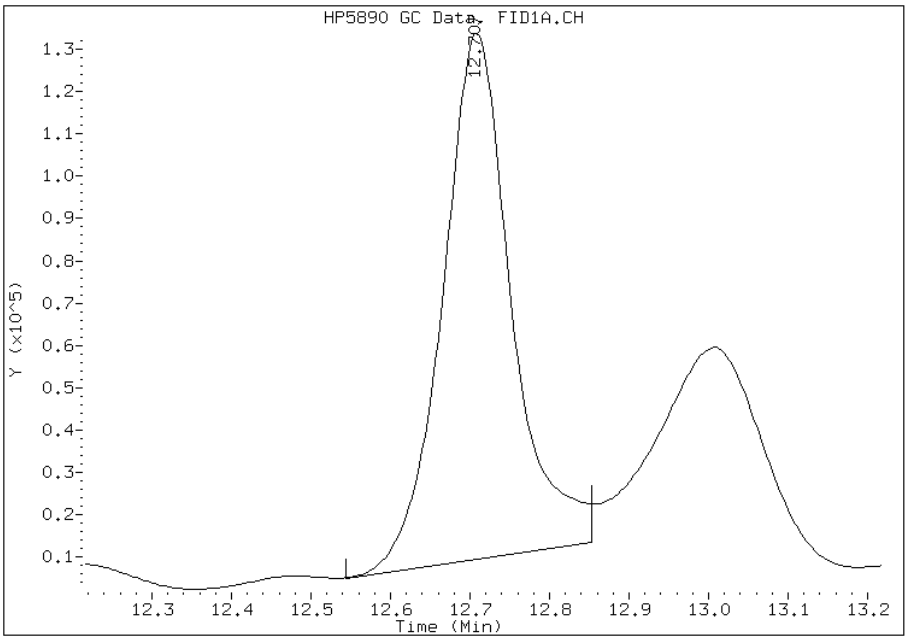
Processing Integration Results

RT: 12.71

Response: 746742

Amount: 30.00

Conc: 733137.83



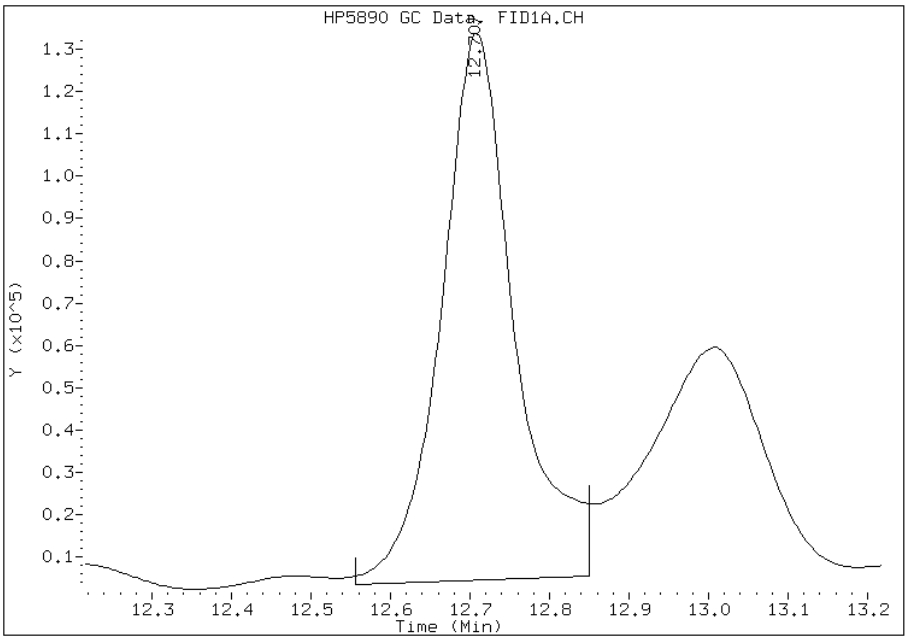
Manual Integration Results

RT: 12.71

Response: 832903

Amount: 30.00

Conc: 14662.76



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 13:14
Manual Integration Reason: Baseline Event

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-1 Lab Sample ID: 280-24850-1

Matrix: Solid Lab File ID: 301B1901.D

Analysis Method: 8021B Date Collected: 01/19/2012 11:00

Sample wt/vol: 10.23(g) Date Analyzed: 01/30/2012 23:20

Soil Aliquot Vol: 5 (mL) Dilution Factor: 10

Soil Extract Vol.: 500(mL) GC Column: RTX-1 (60.53) ID: 0.53(mm)

% Moisture: 15.7 Level: (low/med) Medium

Analysis Batch No.: 105566 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
71-43-2	Benzene	ND		580
108-88-3	Toluene	ND		580
179601-23-1	m-Xylene & p-Xylene	ND		580
95-47-6	o-Xylene	2400	p	580
91-20-3	Naphthalene	12000	P	580

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	105	D	82-115

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b2.B\301B1901.D
Lab Smp Id: 280-24850-A-1-B Client Smp ID: SS-1
Inj Date : 30-JAN-2012 23:20
Operator : mps Inst ID: GC_H.i
Smp Info : 280-1222815,1
Misc Info : 280-24850-A-1-B
Comment   : REV. OLMO1.1.1
Method   : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b2.B\H2.m
Meth Date : 31-Jan-2012 12:23 SmithM Quant Type: ISTD
Cal Date : 29-NOV-2011 17:57 Cal File: 203B0901.D
Als bottle: 301
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: mnBTEX.sub
Target Version: 4.14
Processing Host: DENPC290

Concentration Formula: Amt * DF * Uf*Vp/Va*Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Ws	10.230	Weight of sample extracted (g)
Uf	1000.000	unit correction factor (mg/g)
Vp	5.000	final sample volume (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction (ml)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
	1 Methyl tert-butylether	Compound Not Detected.					
	2 Benzene	Compound Not Detected.					
$	3 Trifluorotoluene	7.930	7.933	(0.695)	16636	3.14936	153.928(RM)
	4 Toluene	9.610	9.600	(0.842)	17526	0.98019	479.078(M)
*	5 1-Chloro-4-fluorobenzene	11.413	11.420	(1.000)	260999	30.0000	(M)
	7 Ethylbenzene	12.090	12.133	(1.059)	85239	6.34676	3102.03(M)
	8 m+p-Xylene	Compound Not Detected.					
	9 o-Xylene	12.946	12.990	(1.134)	56216	4.14542	2026.11(M)
	15 Naphthalene	19.160	19.173	(1.679)	237159	21.4161	10467.3(M)
M	16 Total Xylene				56216	4.14542	2026.11

QC Flag Legend

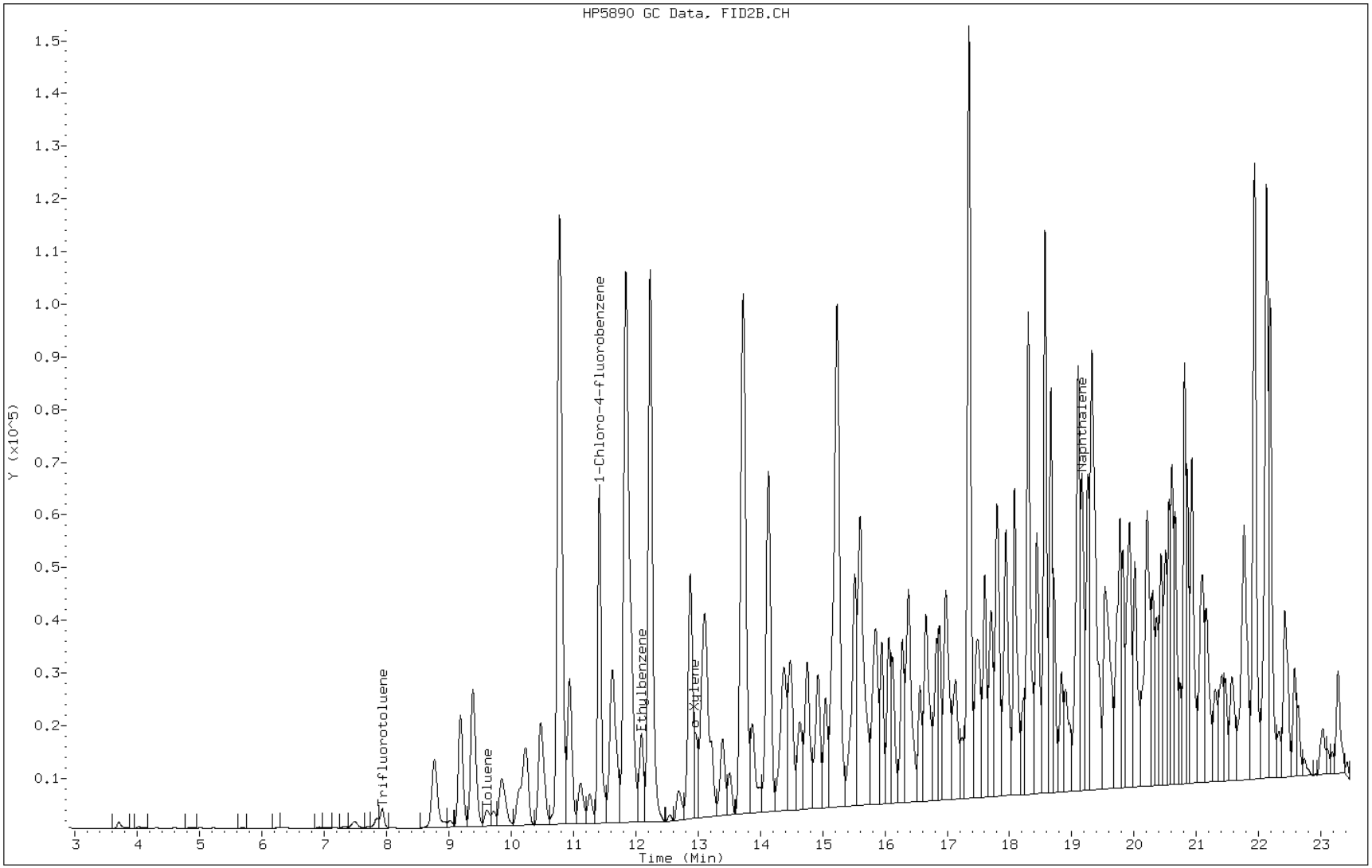
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 301B1901.D

Date: 30-JAN-2012 23:20

Client ID: SS-1 Instrument: GC_H.i

Sample Info: 280-1222815,1 Operator: mps



Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 7 Ethylbenzene
CAS #: 100-41-4
Report Date: 01/31/2012

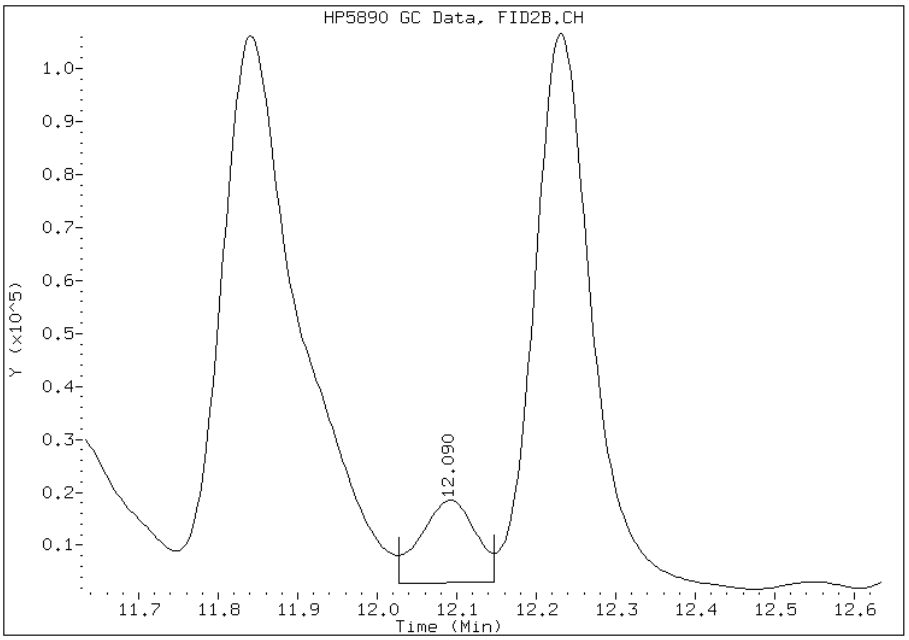
Processing Integration Results

RT: 12.09

Response: 74545

Amount: 5.84

Conc: 142796.38



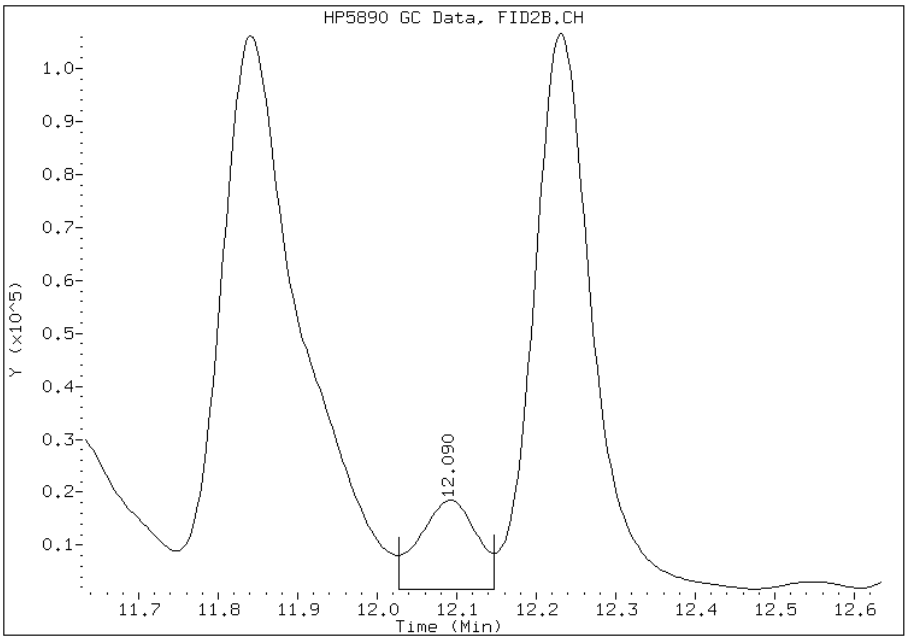
Manual Integration Results

RT: 12.09

Response: 85239

Amount: 6.35

Conc: 3102.03



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 4 Toluene
CAS #: 108-88-3
Report Date: 01/31/2012

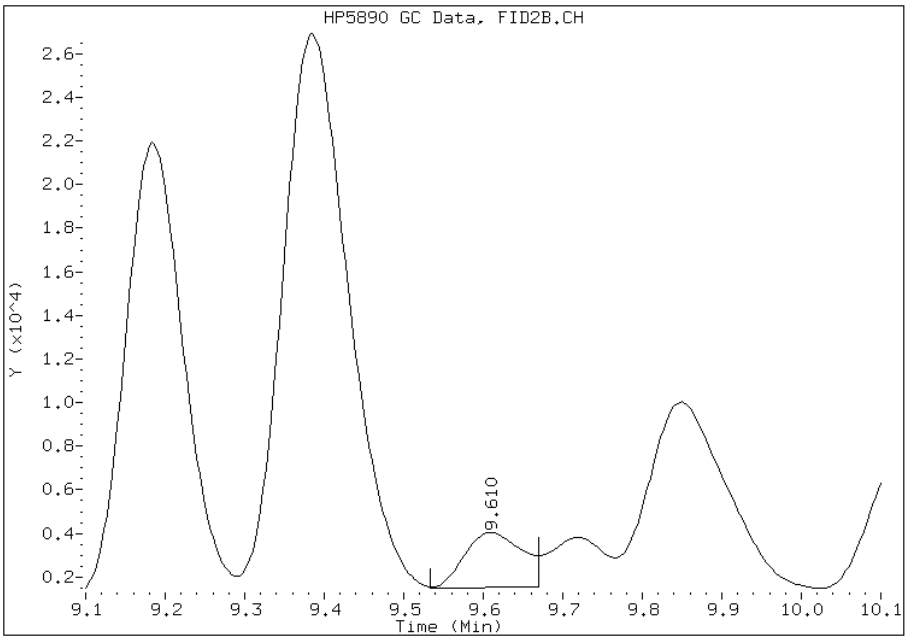
Processing Integration Results

RT: 9.61

Response: 12942

Amount: 0.72

Conc: 17665.25



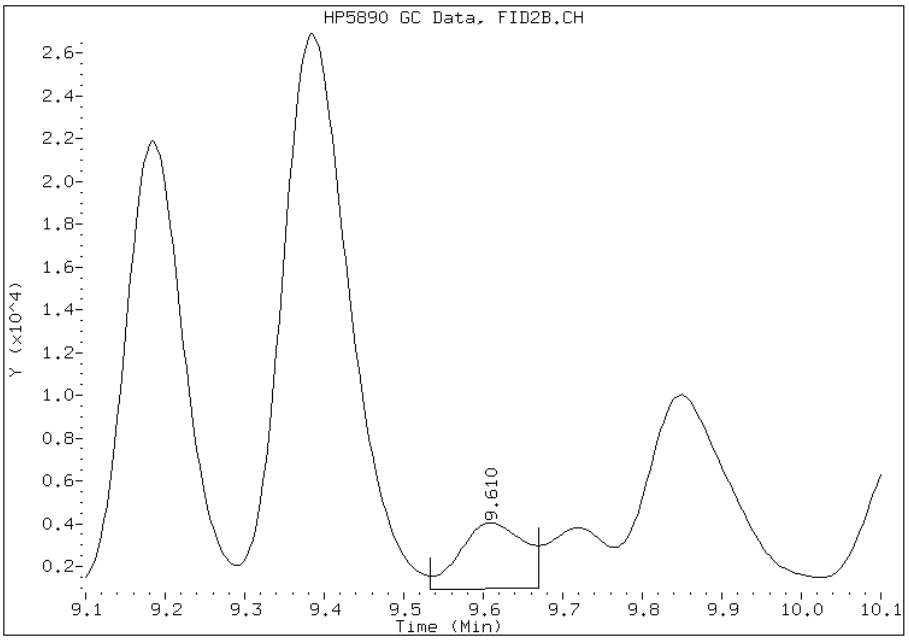
Manual Integration Results

RT: 9.61

Response: 17526

Amount: 0.98

Conc: 479.08



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:47
Manual Integration Reason: Baseline Event

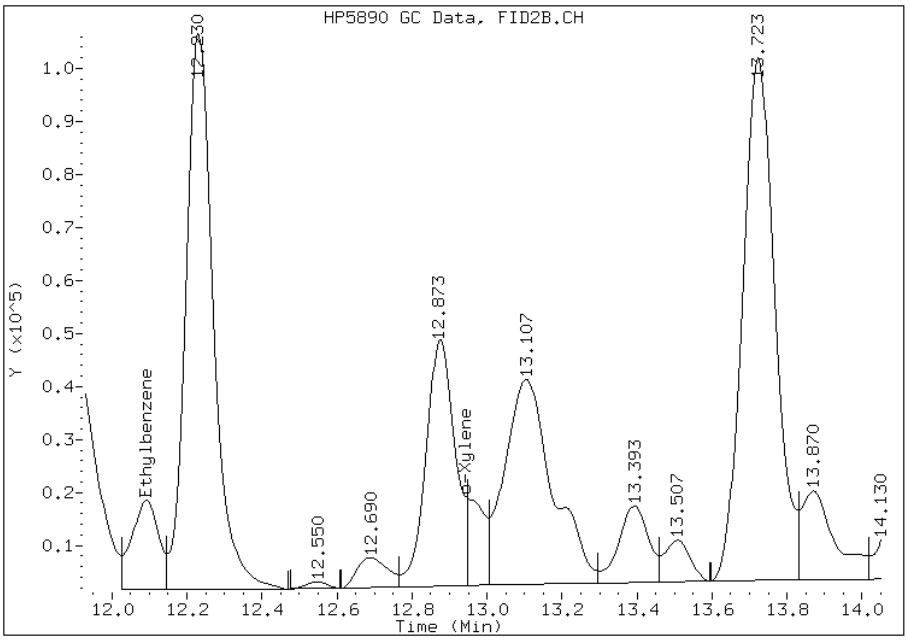
Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 9 o-Xylene
CAS #: 95-47-6
Report Date: 01/31/2012

Processing Integration Results

Not Detected

Expected RT: 12.99



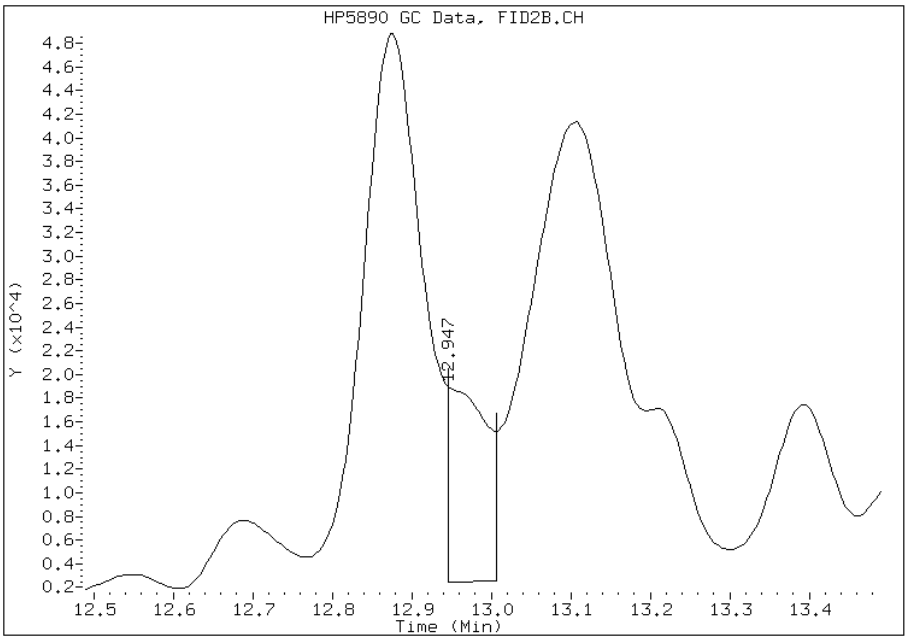
Manual Integration Results

RT: 12.95

Response: 56216

Amount: 4.15

Conc: 2026.11



Manually Integrated By: SmithM
Modification Date:
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 3 Trifluorotoluene
CAS #: 98-08-8
Report Date: 01/31/2012

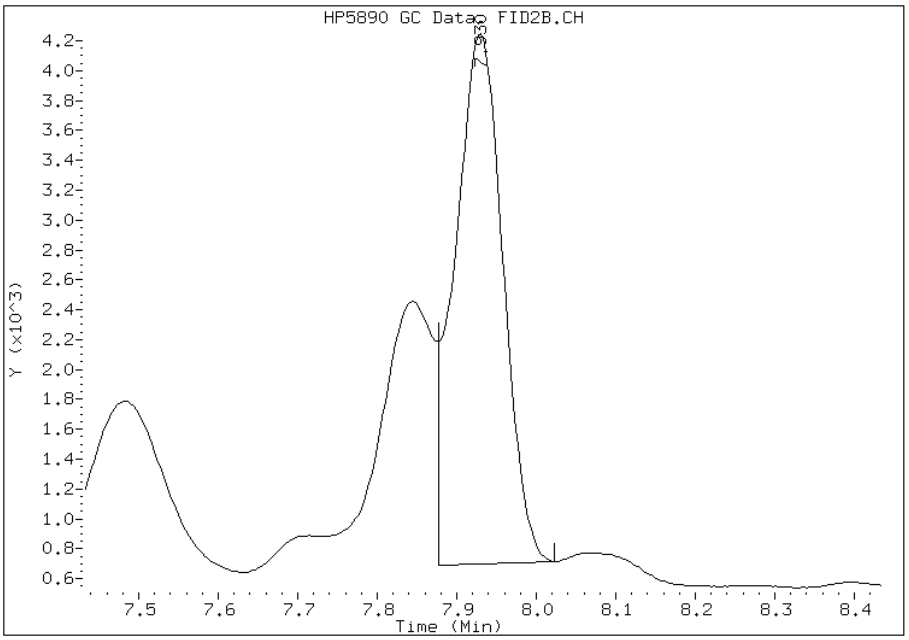
Processing Integration Results

RT: 7.93

Response: 14960

Amount: 2.84

Conc: 6946.40



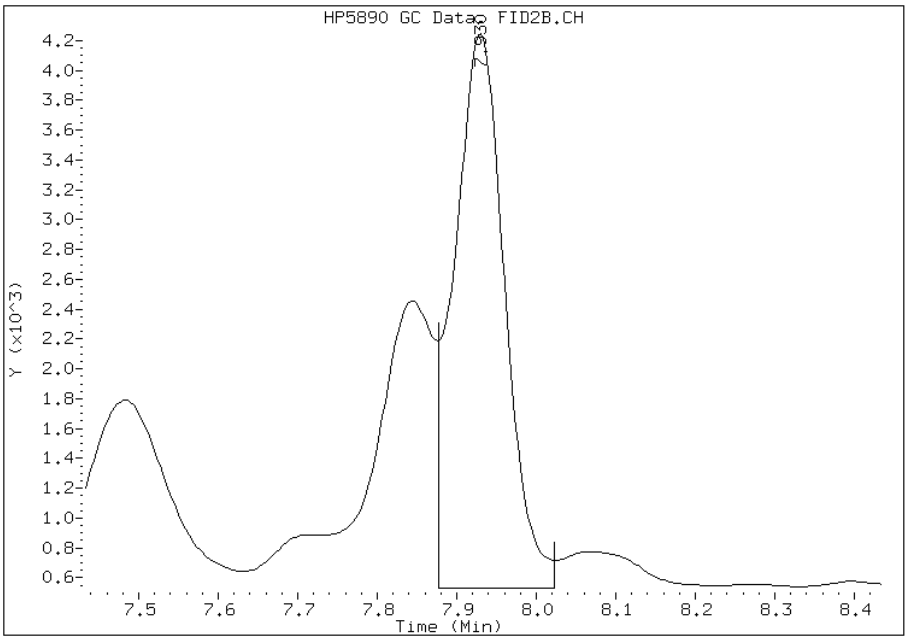
Manual Integration Results

RT: 7.93

Response: 16636

Amount: 3.15

Conc: 153.93



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 15 Naphthalene
CAS #: 91-20-3
Report Date: 01/31/2012

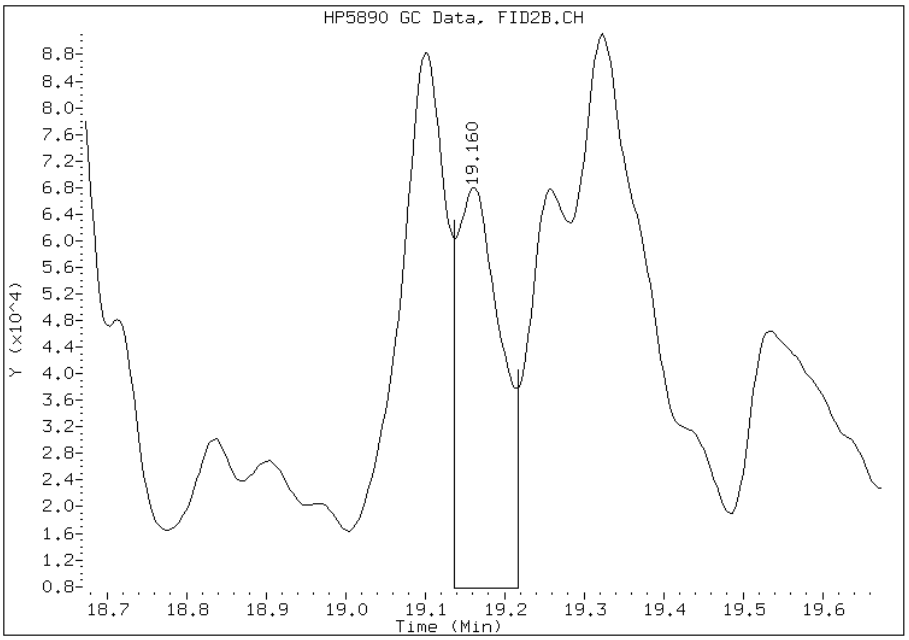
Processing Integration Results

RT: 19.16

Response: 228727

Amount: 20.63

Conc: 504133.43



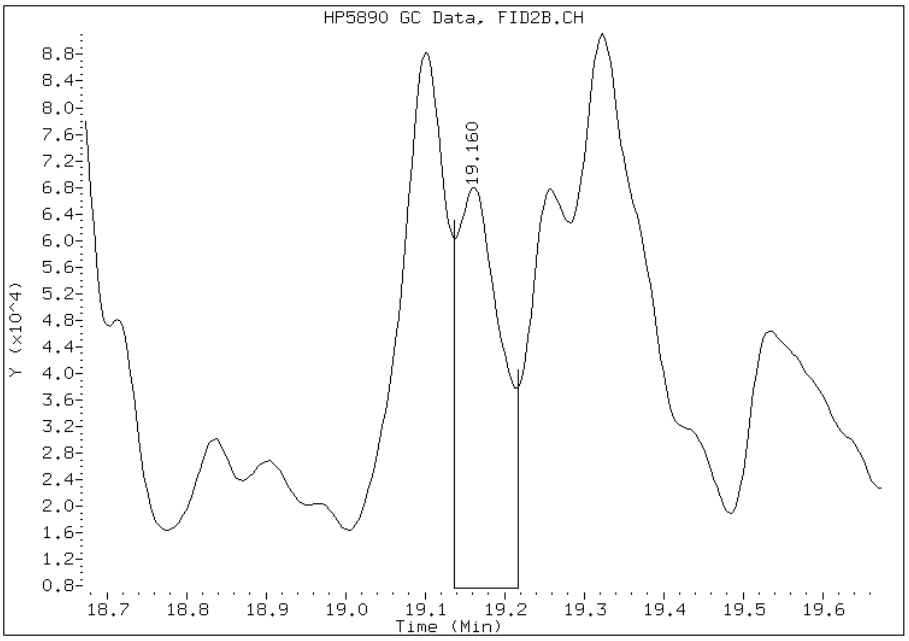
Manual Integration Results

RT: 19.16

Response: 237159

Amount: 21.42

Conc: 10467.30



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 301B1901.D
Inj. Date and Time: 30-JAN-2012 23:20
Instrument ID: GC_H.i
Client ID: SS-1
Compound: 5 1-Chloro-4-fluorobenzene
CAS #: 352-33-0
Report Date: 01/31/2012

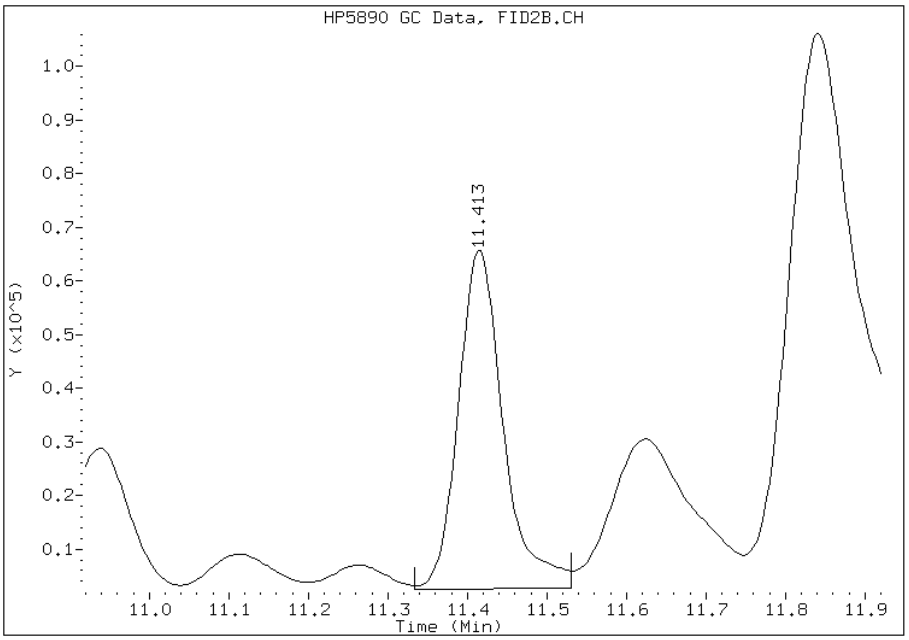
Processing Integration Results

RT: 11.41

Response: 247656

Amount: 30.00

Conc: 733137.83



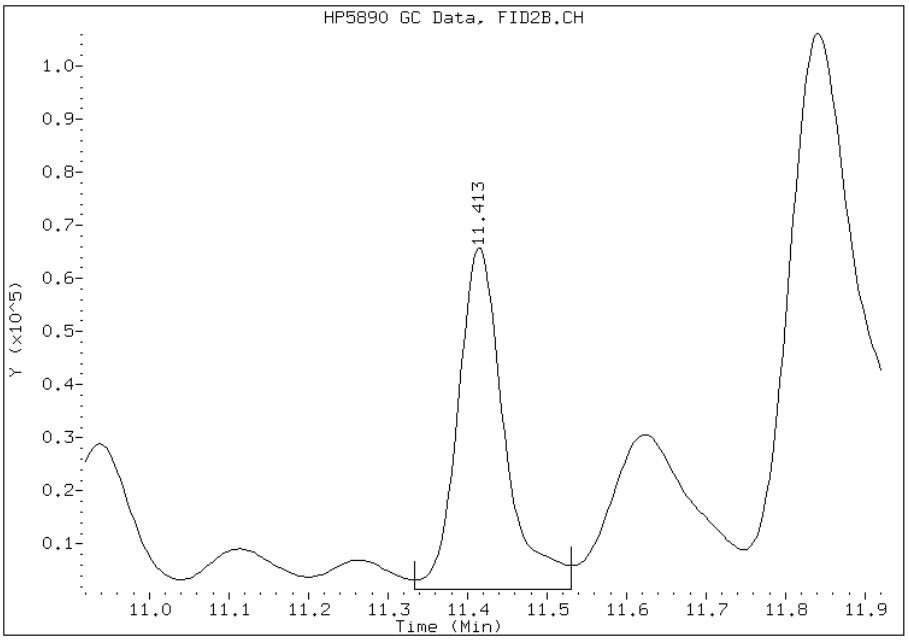
Manual Integration Results

RT: 11.41

Response: 260999

Amount: 30.00

Conc: 14662.76



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:47
Manual Integration Reason: Baseline Event

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-2 | Lab Sample ID: 280-24850-2

Matrix: Solid | Lab File ID: 303B2101.D

Analysis Method: 8021B | Date Collected: 01/19/2012 11:14

Sample wt/vol: 10.04(g) | Date Analyzed: 01/31/2012 00:26

Soil Aliquot Vol: 5 (mL) | Dilution Factor: 10

Soil Extract Vol.: 500(mL) | GC Column: RTX 502.2 (60) ID: 0.53(mm)

% Moisture: 15.7 | Level: (low/med) Medium

Analysis Batch No.: 105566 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	ND		590

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	68	*D*	82-115

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b1.B\303B2101.D
Lab Smp Id: 280-24850-A-2-B Client Smp ID: SS-2
Inj Date : 31-JAN-2012 00:26
Operator : mps Inst ID: GC_H.i
Smp Info : 280-1222816,2
Misc Info : 280-24850-A-2-B
Comment   : REV. OLMO1.1.1
Method   : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b1.B\H1.m
Meth Date : 31-Jan-2012 12:19 SmithM Quant Type: ISTD
Cal Date : 29-NOV-2011 15:45 Cal File: 115B0501.D
Als bottle: 303
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: mnBTEX.sub
Target Version: 4.14
Processing Host: DENPC290

Concentration Formula: Amt * DF * Uf*Vp/Va*Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Ws	10.040	Weight of sample extracted (g)
Uf	1000.000	unit correction factor (mg/g)
Vp	5.000	final volume purged (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction vlm (ml
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
	1 Methyl tert-butylether	Compound Not Detected.					
	2 Benzene	Compound Not Detected.					
$	3 Trifluorotoluene	8.493	8.490	(0.668)	39513	2.05156	102.169(RM)
	4 Toluene	Compound Not Detected.					
*	5 1-Chloro-4-fluorobenzene	12.706	12.716	(1.000)	832017	30.0000	(M)
	7 Ethylbenzene	Compound Not Detected.					
	8 m+p-Xylene	Compound Not Detected.					
	9 o-Xylene	14.116	14.146	(1.111)	331751	7.69970	3834.51(M)
	15 Naphthalene	20.530	20.513	(1.616)	283064	7.74798	3858.56(M)
M	16 Total Xylene				331751	7.69970	3834.51

QC Flag Legend

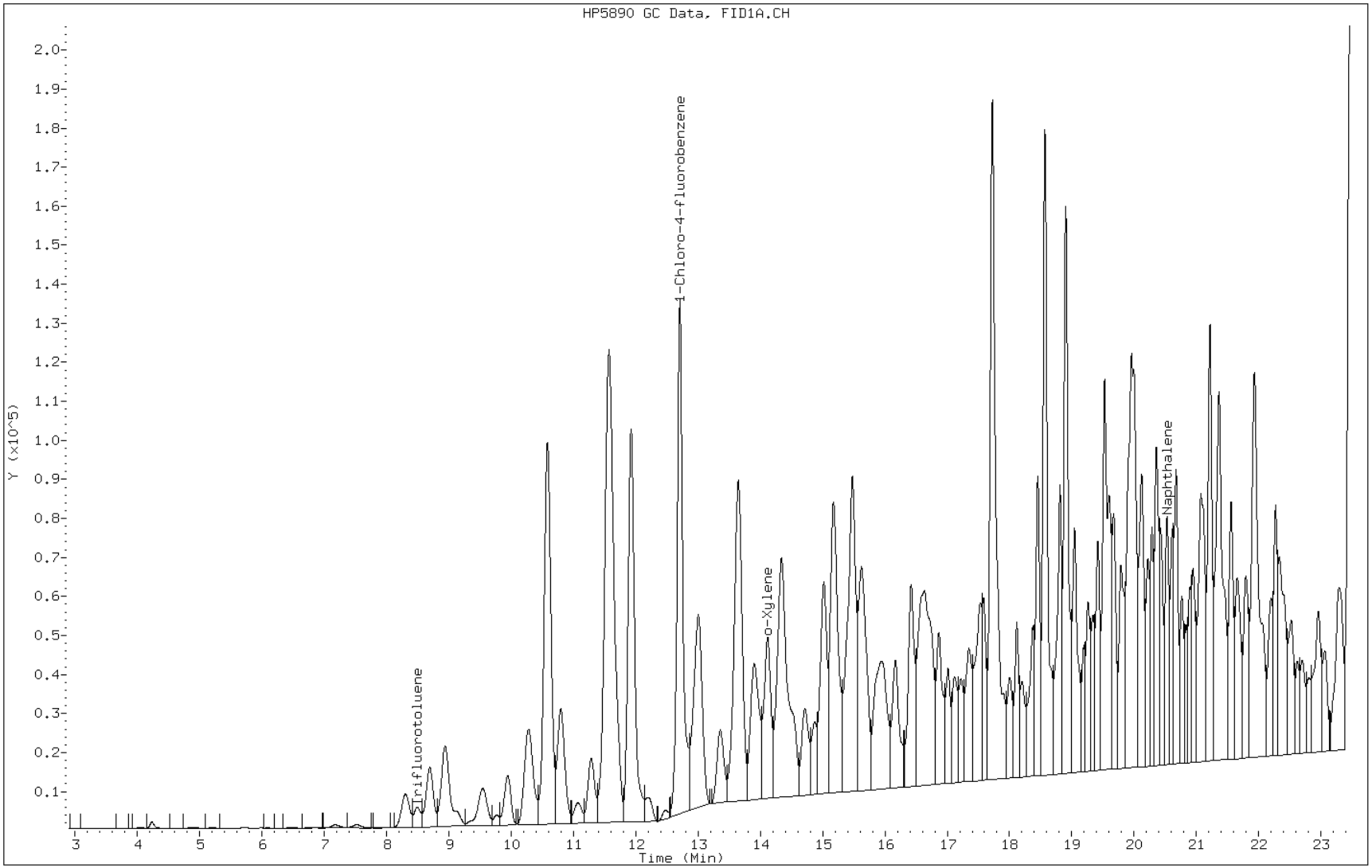
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 303B2101.D

Date: 31-JAN-2012 00:26

Client ID: SS-2 Instrument: GC_H.i

Sample Info: 280-1222816,2 Operator: mps



Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 9 o-Xylene
CAS #: 95-47-6
Report Date: 01/31/2012

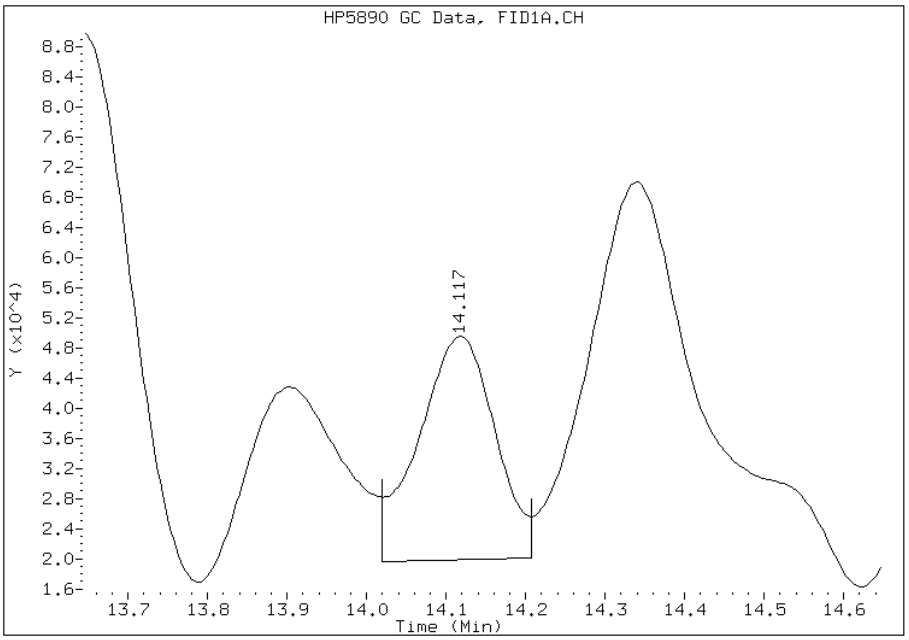
Processing Integration Results

RT: 14.12

Response: 197821

Amount: 4.59

Conc: 114280.90



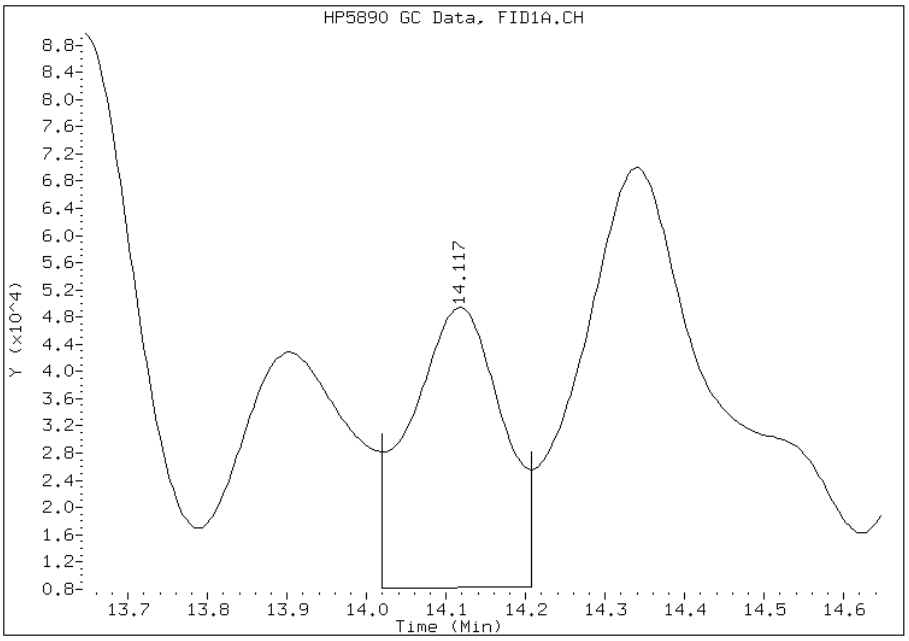
Manual Integration Results

RT: 14.12

Response: 331751

Amount: 7.70

Conc: 3834.51



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 3 Trifluorotoluene
CAS #: 98-08-8
Report Date: 01/31/2012

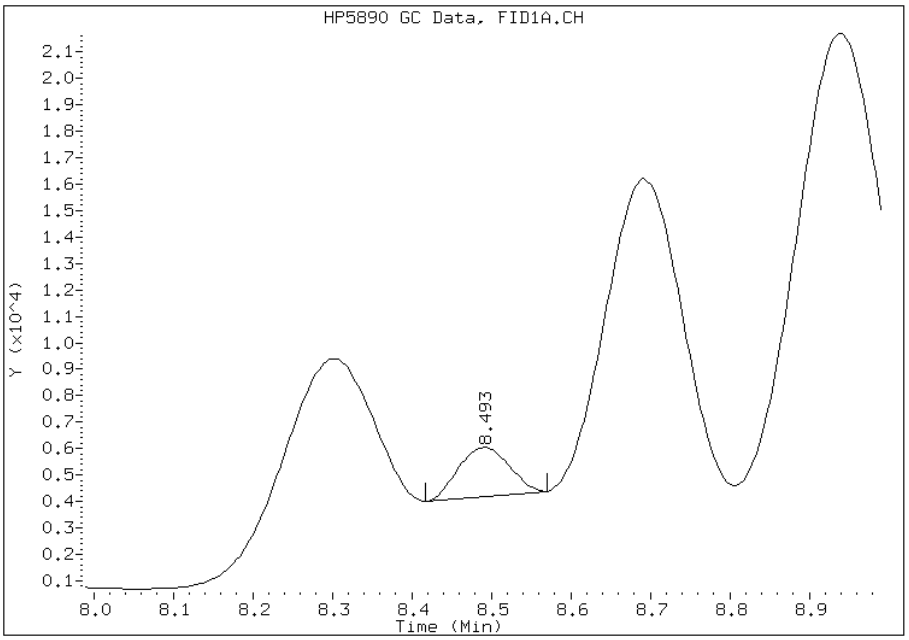
Processing Integration Results

RT: 8.49

Response: 8235

Amount: 0.28

Conc: 707.15



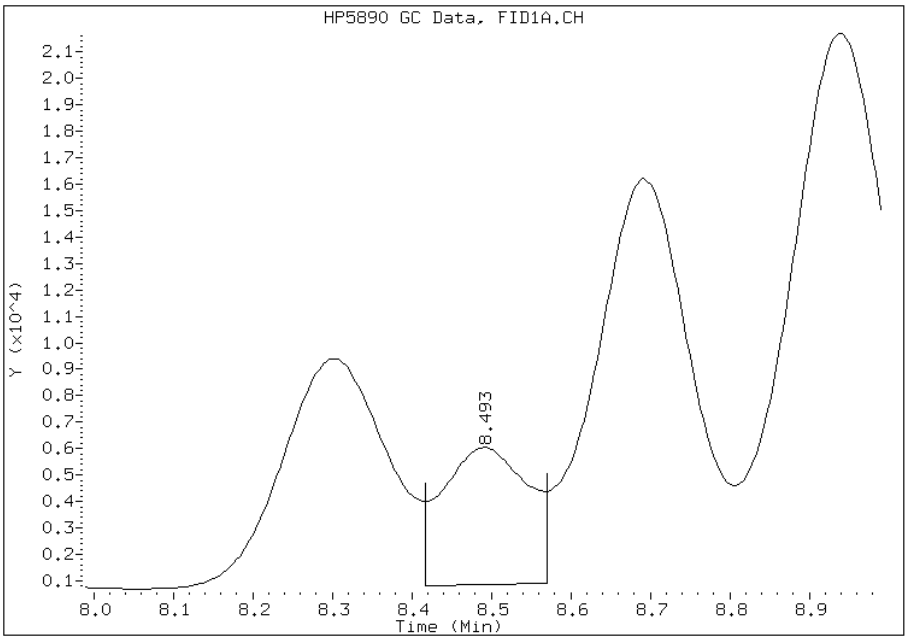
Manual Integration Results

RT: 8.49

Response: 39513

Amount: 2.05

Conc: 102.17



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 15 Naphthalene
CAS #: 91-20-3
Report Date: 01/31/2012

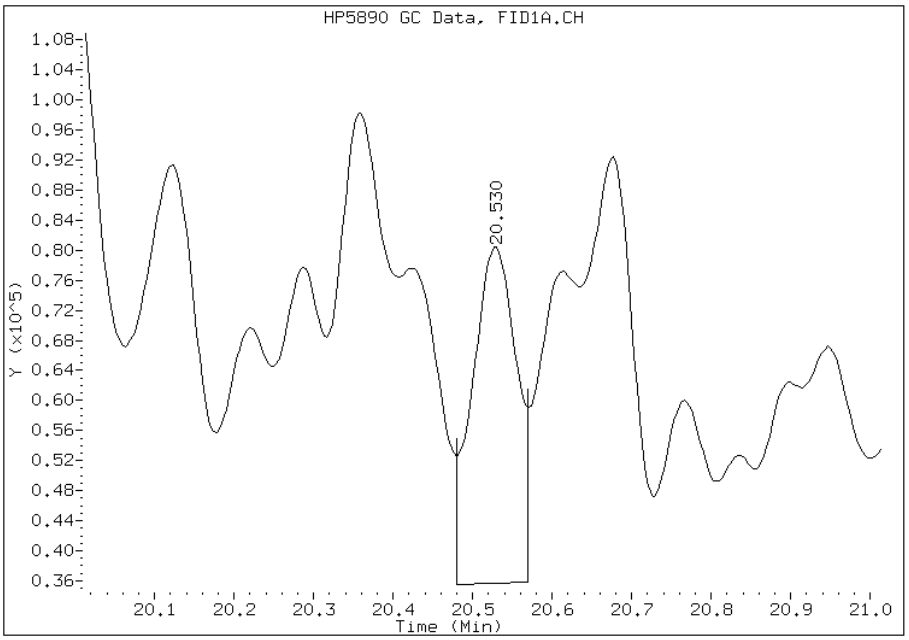
Processing Integration Results

RT: 20.53

Response: 173759

Amount: 4.55

Conc: 113266.82



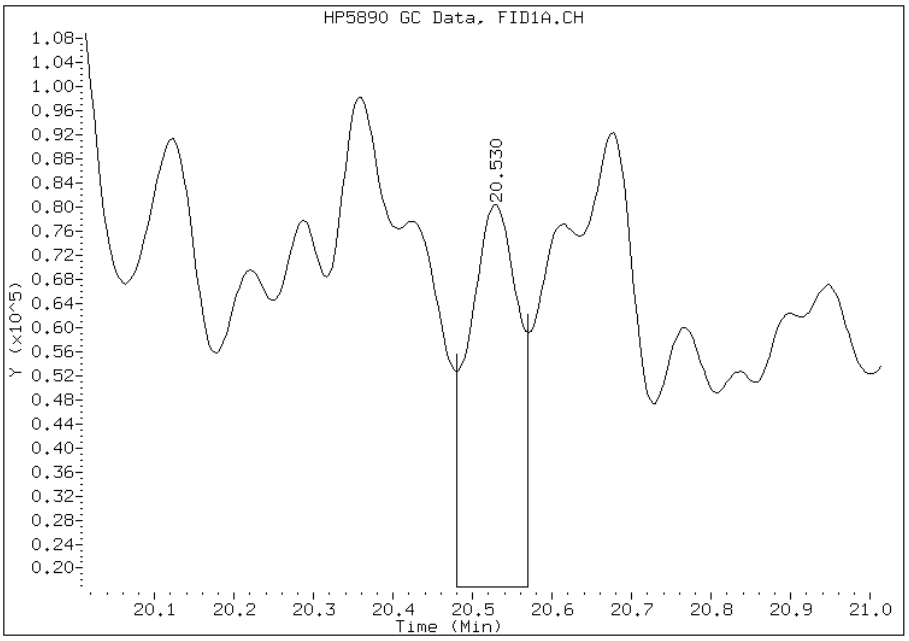
Manual Integration Results

RT: 20.53

Response: 283064

Amount: 7.75

Conc: 3858.56



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 5 1-Chloro-4-fluorobenzene
CAS #: 352-33-0
Report Date: 01/31/2012

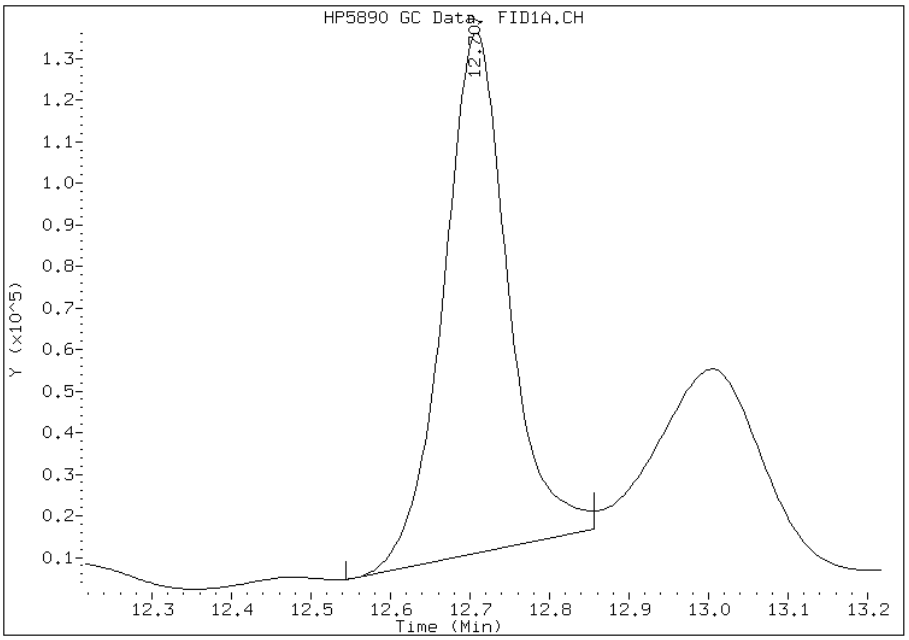
Processing Integration Results

RT: 12.71

Response: 710497

Amount: 30.00

Conc: 747011.95



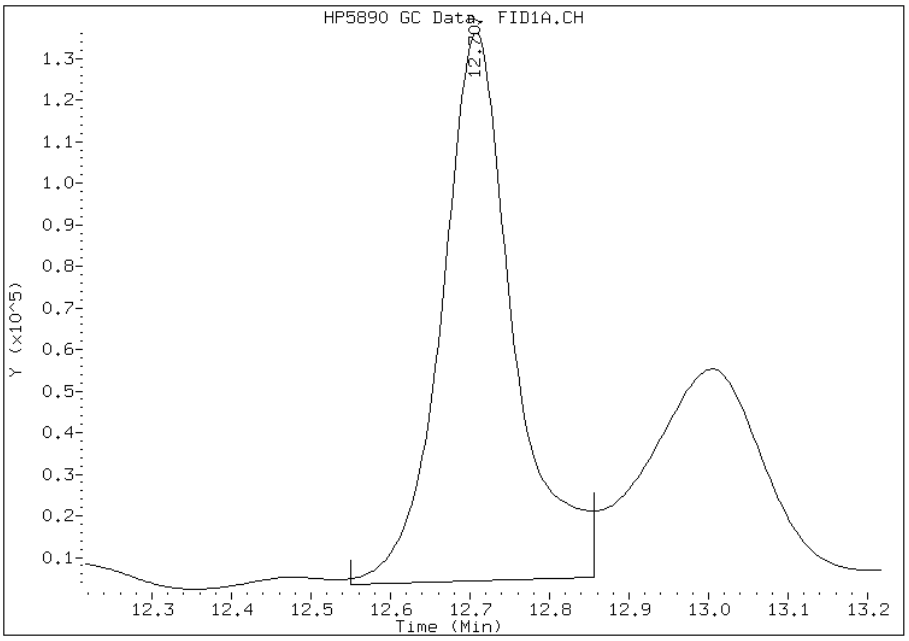
Manual Integration Results

RT: 12.71

Response: 832017

Amount: 30.00

Conc: 14940.24



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 13:14
Manual Integration Reason: Baseline Event

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-2 Lab Sample ID: 280-24850-2

Matrix: Solid Lab File ID: 303B2101.D

Analysis Method: 8021B Date Collected: 01/19/2012 11:14

Sample wt/vol: 10.04(g) Date Analyzed: 01/31/2012 00:26

Soil Aliquot Vol: 5 (mL) Dilution Factor: 10

Soil Extract Vol.: 500(mL) GC Column: RTX-1 (60.53) ID: 0.53(mm)

% Moisture: 15.7 Level: (low/med) Medium

Analysis Batch No.: 105566 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
71-43-2	Benzene	ND		590
108-88-3	Toluene	ND		590
179601-23-1	m-Xylene & p-Xylene	ND		590
95-47-6	o-Xylene	1900	p	590
91-20-3	Naphthalene	12000	P	590

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	100	D	82-115

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b2.B\303B2101.D
Lab Smp Id: 280-24850-A-2-B Client Smp ID: SS-2
Inj Date : 31-JAN-2012 00:26
Operator : mps Inst ID: GC_H.i
Smp Info : 280-1222816,2
Misc Info : 280-24850-A-2-B
Comment   : REV. OLMO1.1.1
Method   : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b2.B\H2.m
Meth Date : 31-Jan-2012 12:23 SmithM Quant Type: ISTD
Cal Date : 29-NOV-2011 17:57 Cal File: 203B0901.D
Als bottle: 303
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: mnBTEX.sub
Target Version: 4.14
Processing Host: DENPC290

Concentration Formula: Amt * DF * Uf*Vp/Va*Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Ws	10.040	Weight of sample extracted (g)
Uf	1000.000	unit correction factor (mg/g)
Vp	5.000	final sample volume (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction (ml)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
	1 Methyl tert-butylether	Compound Not Detected.					
	2 Benzene	Compound Not Detected.					
$	3 Trifluorotoluene	7.926	7.933	(0.695)	16821	2.99943	149.374(RM)
	4 Toluene	9.610	9.600	(0.842)	13986	0.69056	343.905(M)
*	5 1-Chloro-4-fluorobenzene	11.413	11.420	(1.000)	277562	30.0000	(M)
	7 Ethylbenzene	12.090	12.133	(1.059)	79827	5.57948	2778.62(M)
	8 m+p-Xylene	Compound Not Detected.					
	9 o-Xylene	12.950	12.990	(1.135)	45574	3.14075	1564.12(M)
	15 Naphthalene	19.160	19.173	(1.679)	234791	19.8875	9904.12(M)
M	16 Total Xylene				45574	3.14075	1564.12

QC Flag Legend

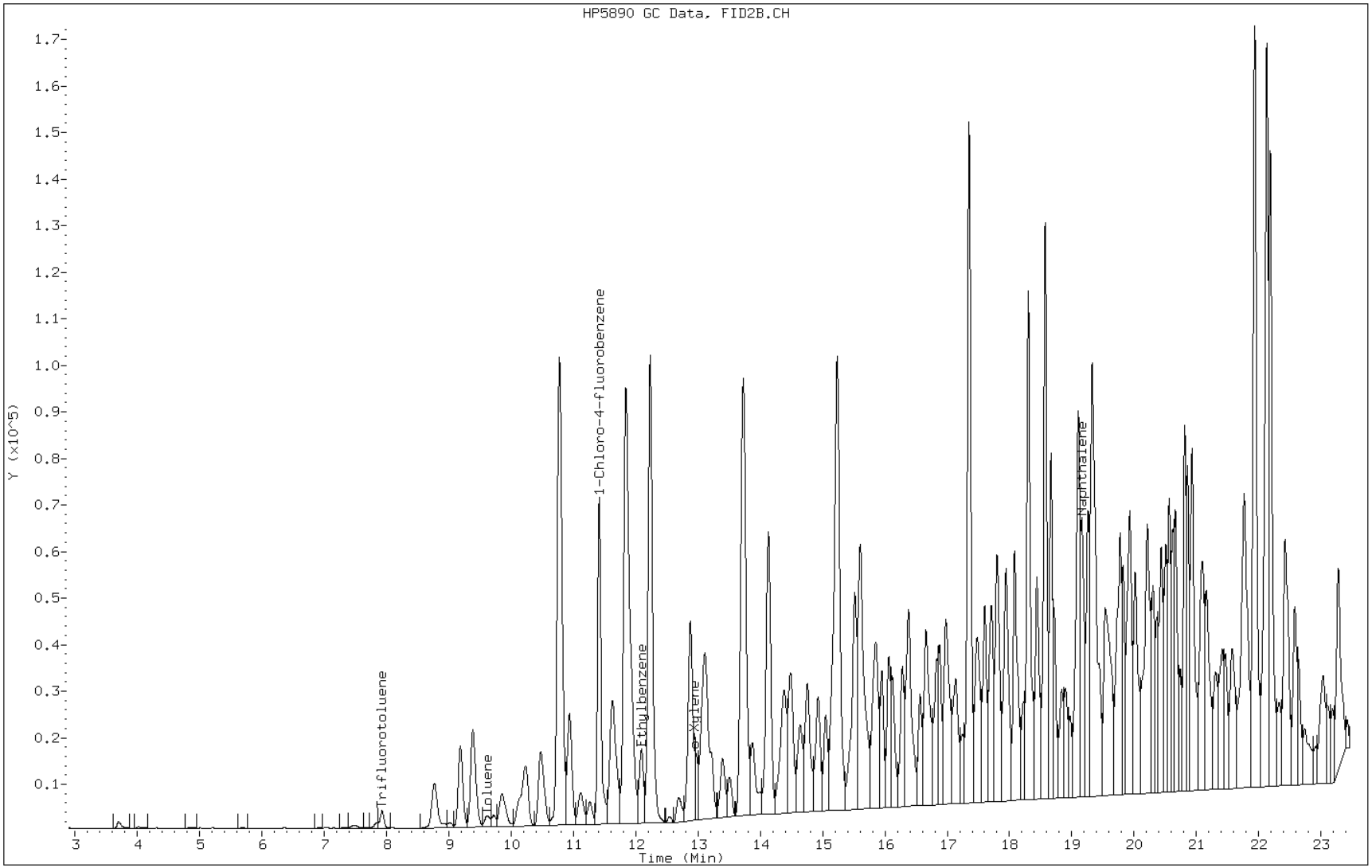
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 303B2101.D

Date: 31-JAN-2012 00:26

Client ID: SS-2 Instrument: GC_H.i

Sample Info: 280-1222816,2 Operator: mps



Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 7 Ethylbenzene
CAS #: 100-41-4
Report Date: 01/31/2012

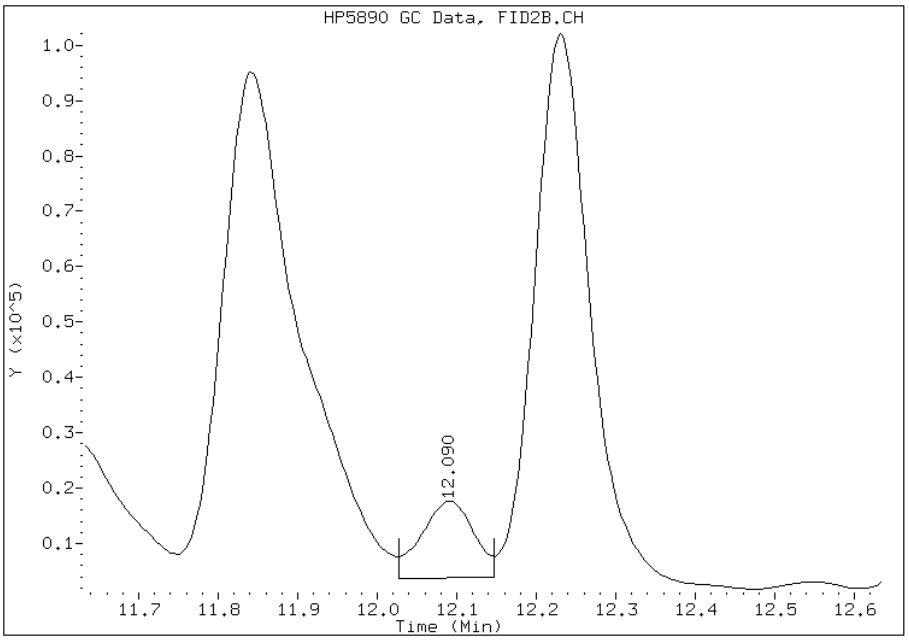
Processing Integration Results

RT: 12.09

Response: 63218

Amount: 4.73

Conc: 117761.26



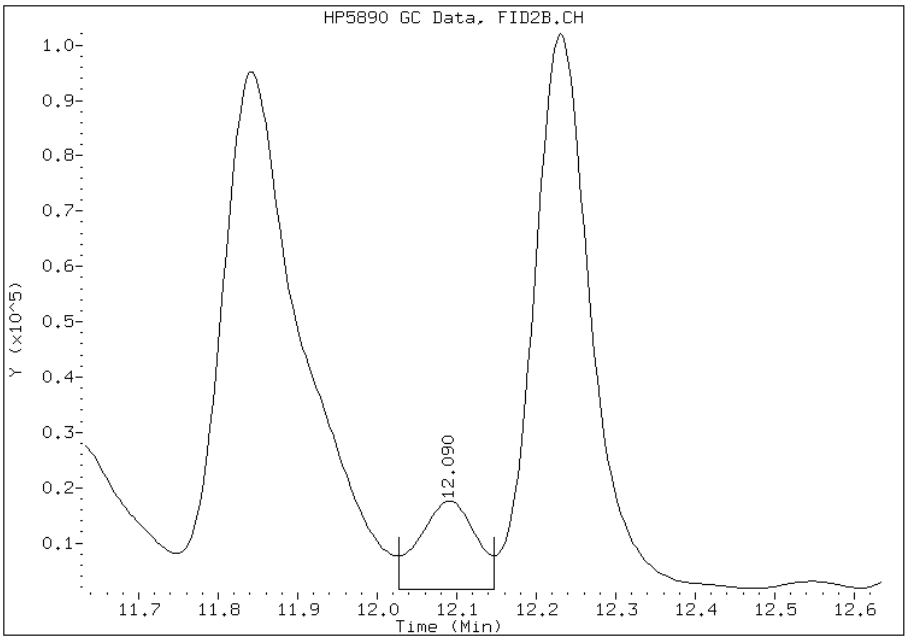
Manual Integration Results

RT: 12.09

Response: 79827

Amount: 5.58

Conc: 2778.62



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 4 Toluene
CAS #: 108-88-3
Report Date: 01/31/2012

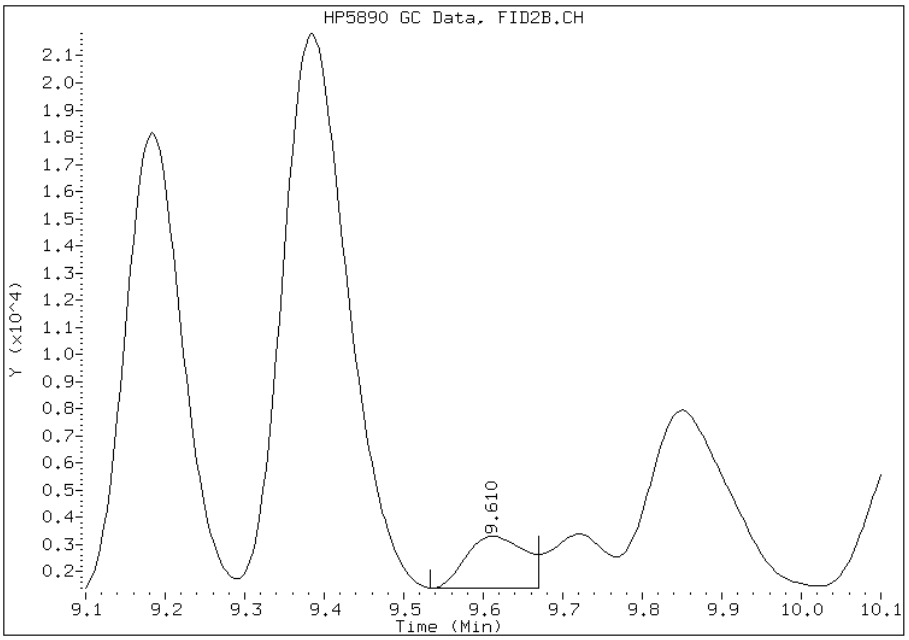
Processing Integration Results

RT: 9.61

Response: 9906

Amount: 0.48

Conc: 11992.20



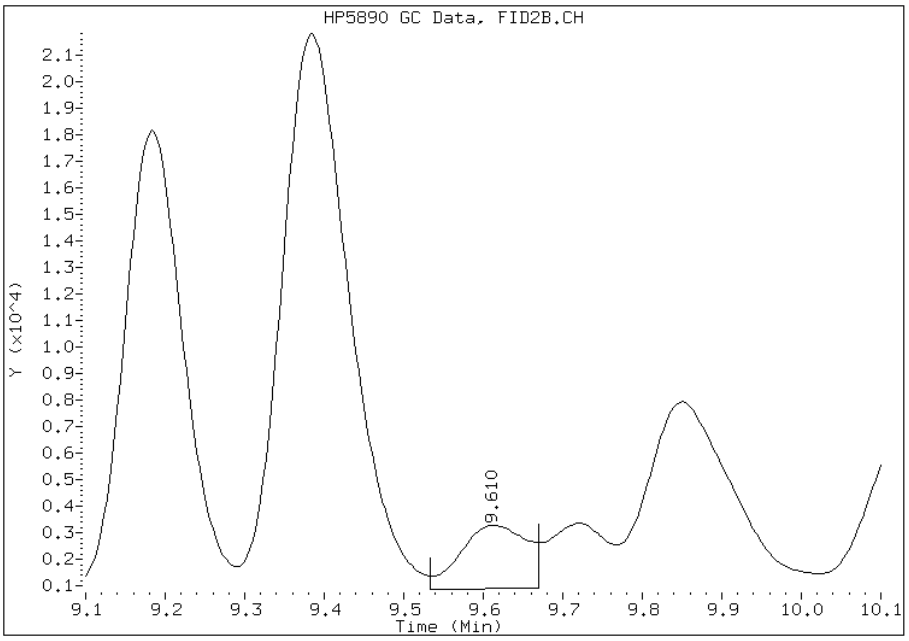
Manual Integration Results

RT: 9.61

Response: 13986

Amount: 0.69

Conc: 343.91



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:47
Manual Integration Reason: Baseline Event

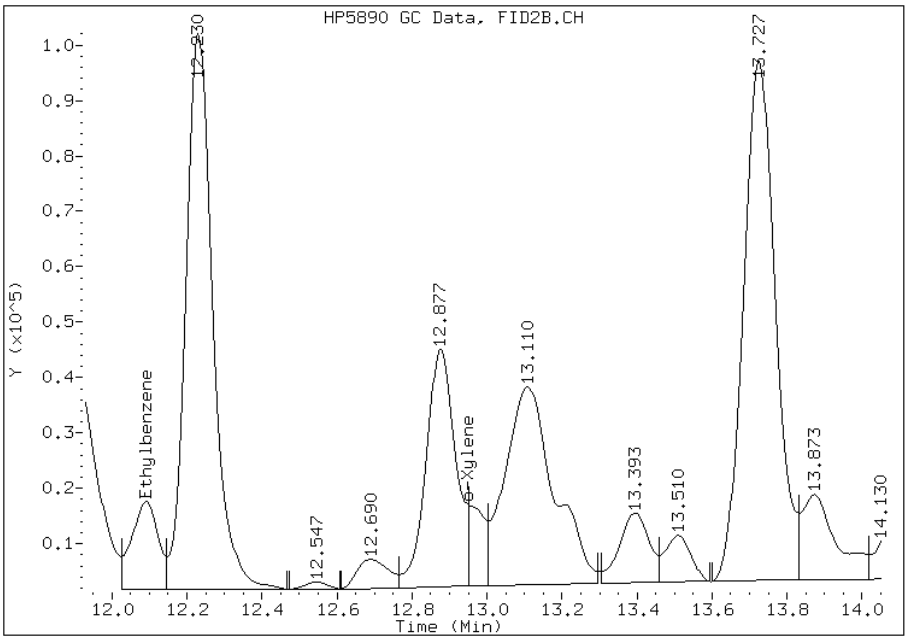
Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 9 o-Xylene
CAS #: 95-47-6
Report Date: 01/31/2012

Processing Integration Results

Not Detected

Expected RT: 12.99



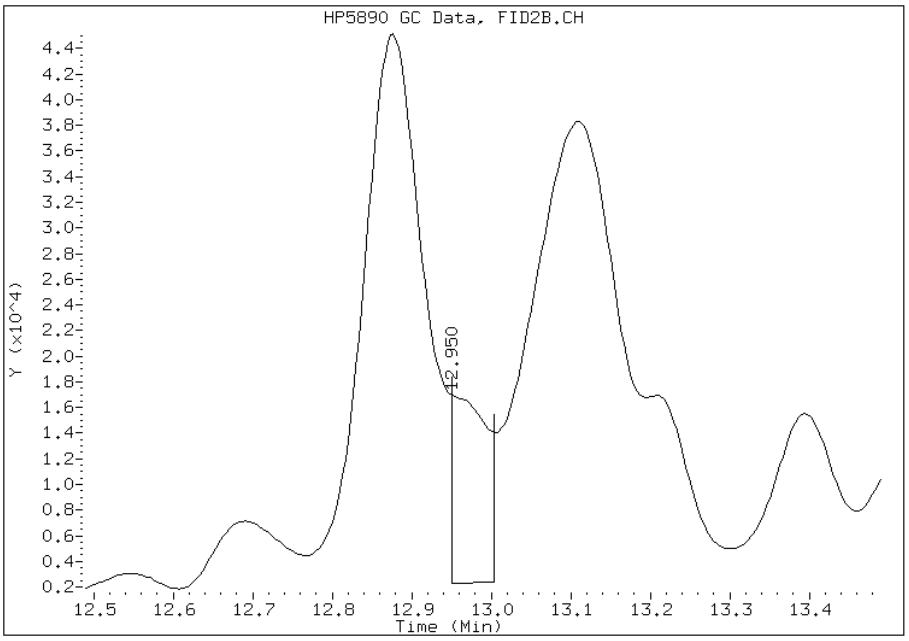
Manual Integration Results

RT: 12.95

Response: 45574

Amount: 3.14

Conc: 1564.12



Manually Integrated By: SmithM
Modification Date:
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 3 Trifluorotoluene
CAS #: 98-08-8
Report Date: 01/31/2012

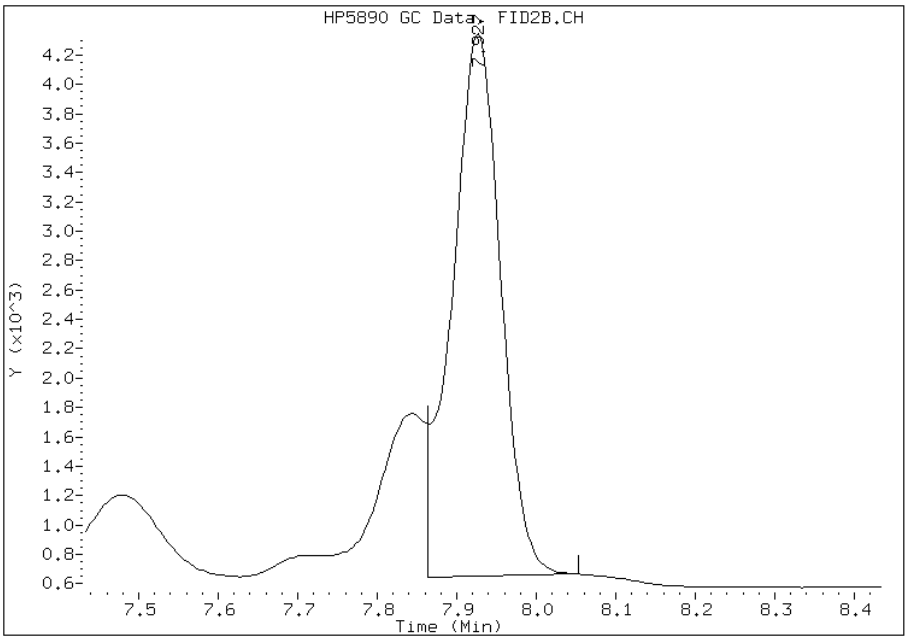
Processing Integration Results

RT: 7.93

Response: 15696

Amount: 2.81

Conc: 6986.38



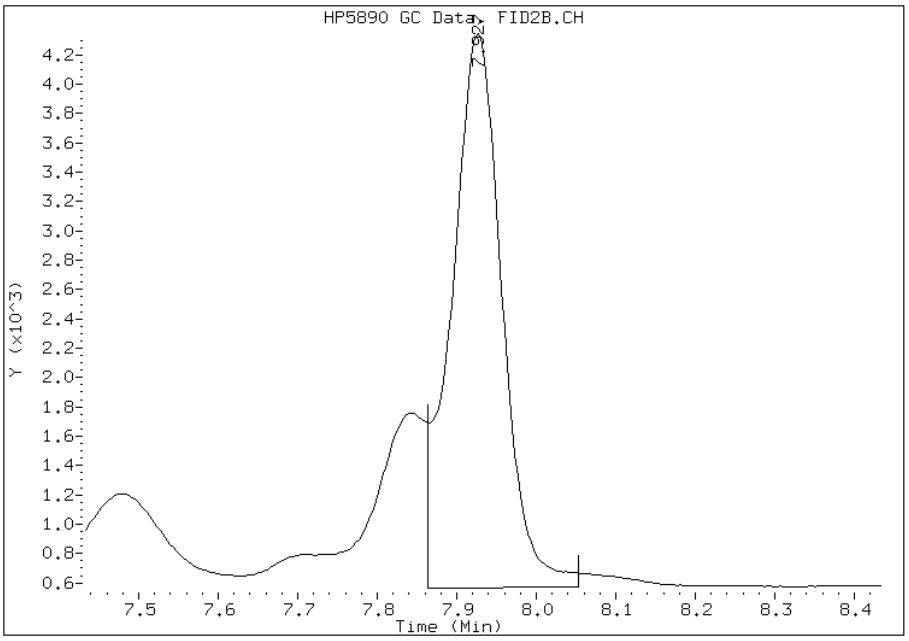
Manual Integration Results

RT: 7.93

Response: 16821

Amount: 3.00

Conc: 149.37



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 15 Naphthalene
CAS #: 91-20-3
Report Date: 01/31/2012

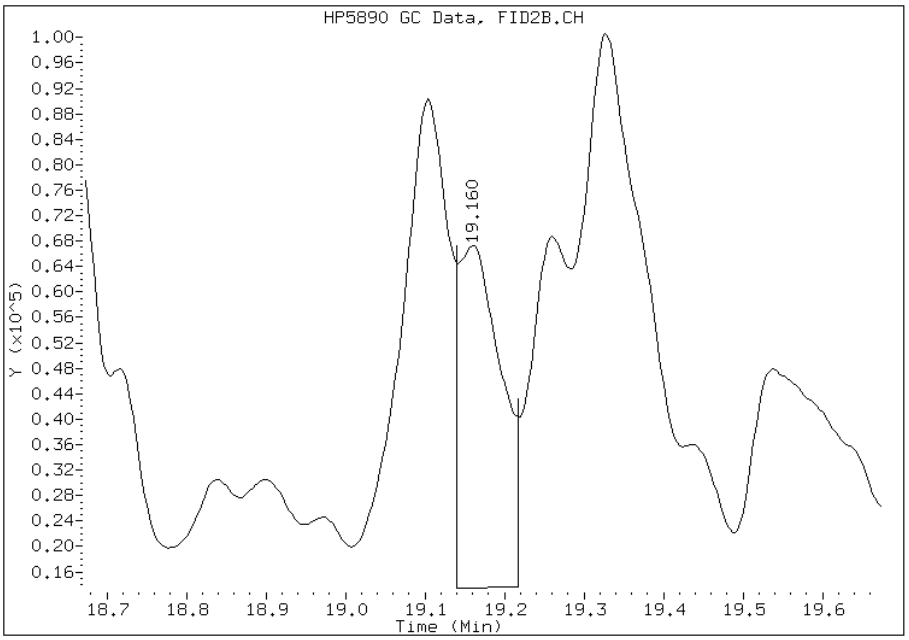
Processing Integration Results

RT: 19.16

Response: 197132

Amount: 16.58

Conc: 412911.26



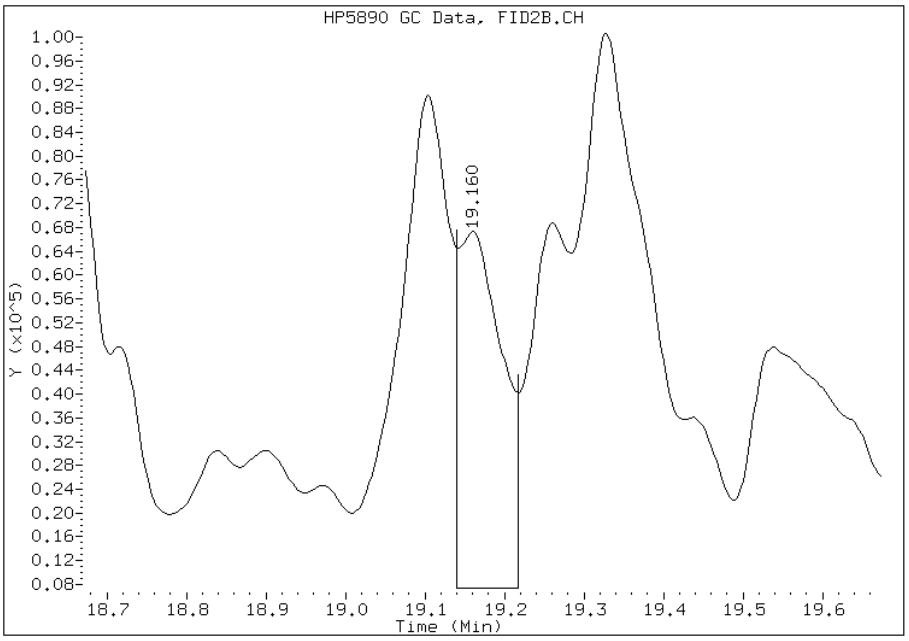
Manual Integration Results

RT: 19.16

Response: 234791

Amount: 19.89

Conc: 9904.12



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 303B2101.D
Inj. Date and Time: 31-JAN-2012 00:26
Instrument ID: GC_H.i
Client ID: SS-2
Compound: 5 1-Chloro-4-fluorobenzene
CAS #: 352-33-0
Report Date: 01/31/2012

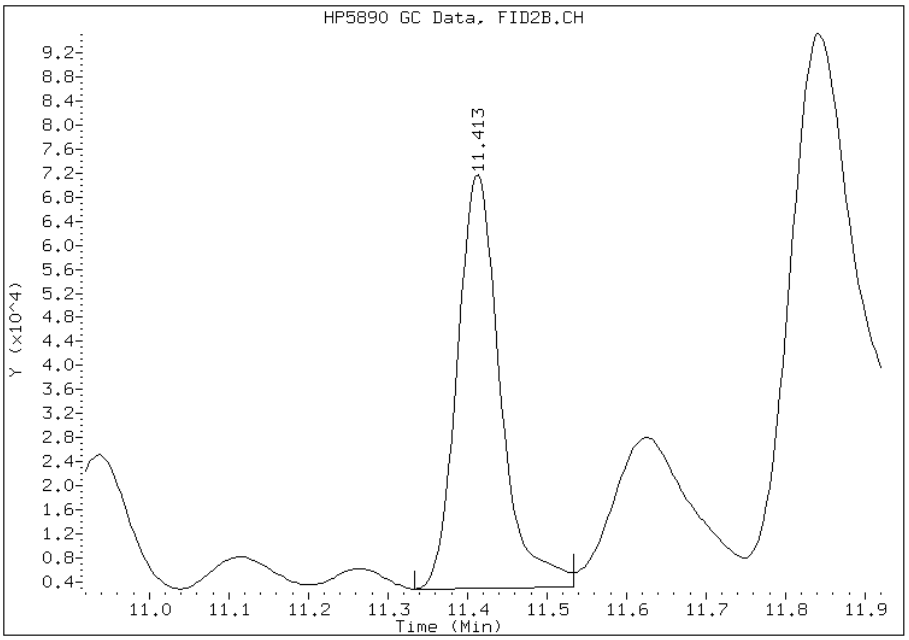
Processing Integration Results

RT: 11.41

Response: 258665

Amount: 30.00

Conc: 747011.95



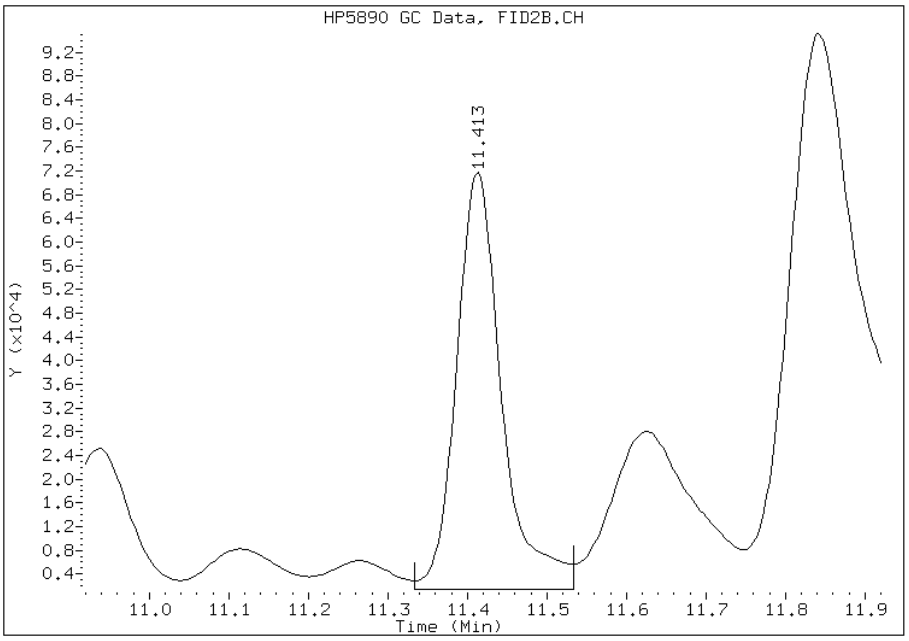
Manual Integration Results

RT: 11.41

Response: 277562

Amount: 30.00

Conc: 14940.24



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:47
Manual Integration Reason: Baseline Event

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-3 Lab Sample ID: 280-24850-3

Matrix: Solid Lab File ID: 305B2301.D

Analysis Method: 8021B Date Collected: 01/19/2012 11:26

Sample wt/vol: 10.26(g) Date Analyzed: 01/31/2012 01:31

Soil Aliquot Vol: 5 (mL) Dilution Factor: 10

Soil Extract Vol.: 500(mL) GC Column: RTX 502.2 (60) ID: 0.53(mm)

% Moisture: 12.4 Level: (low/med) Medium

Analysis Batch No.: 105566 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
100-41-4	Ethylbenzene	ND		560

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	45	*D*	82-115

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b1.B\305B2301.D
Lab Smp Id: 280-24850-A-3-B Client Smp ID: SS-3
Inj Date : 31-JAN-2012 01:31
Operator : mps Inst ID: GC_H.i
Smp Info : 280-1222817,3
Misc Info : 280-24850-A-3-B
Comment   : REV. OLMO1.1.1
Method   : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b1.B\H1.m
Meth Date : 31-Jan-2012 12:19 SmithM Quant Type: ISTD
Cal Date : 29-NOV-2011 15:45 Cal File: 115B0501.D
Als bottle: 305
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: mnBTEX.sub
Target Version: 4.14
Processing Host: DENPC290

Concentration Formula: Amt * DF * Uf*Vp/Va*Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Ws	10.260	Weight of sample extracted (g)
Uf	1000.000	unit correction factor (mg/g)
Vp	5.000	final volume purged (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction vlm (ml
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
	1 Methyl tert-butylether	Compound Not Detected.					
	2 Benzene	Compound Not Detected.					
$	3 Trifluorotoluene	8.493	8.490	(0.668)	22588	1.34256	65.4270(RM)
	4 Toluene	Compound Not Detected.					
*	5 1-Chloro-4-fluorobenzene	12.716	12.716	(1.000)	682612	30.0000	(M)
	7 Ethylbenzene	Compound Not Detected.					
	8 m+p-Xylene	Compound Not Detected.					
	9 o-Xylene	14.123	14.146	(1.111)	310355	8.77821	4277.88(M)
	15 Naphthalene	20.530	20.513	(1.614)	461487	15.9096	7753.22(M)
M	16 Total Xylene				310355	8.77821	4277.88

QC Flag Legend

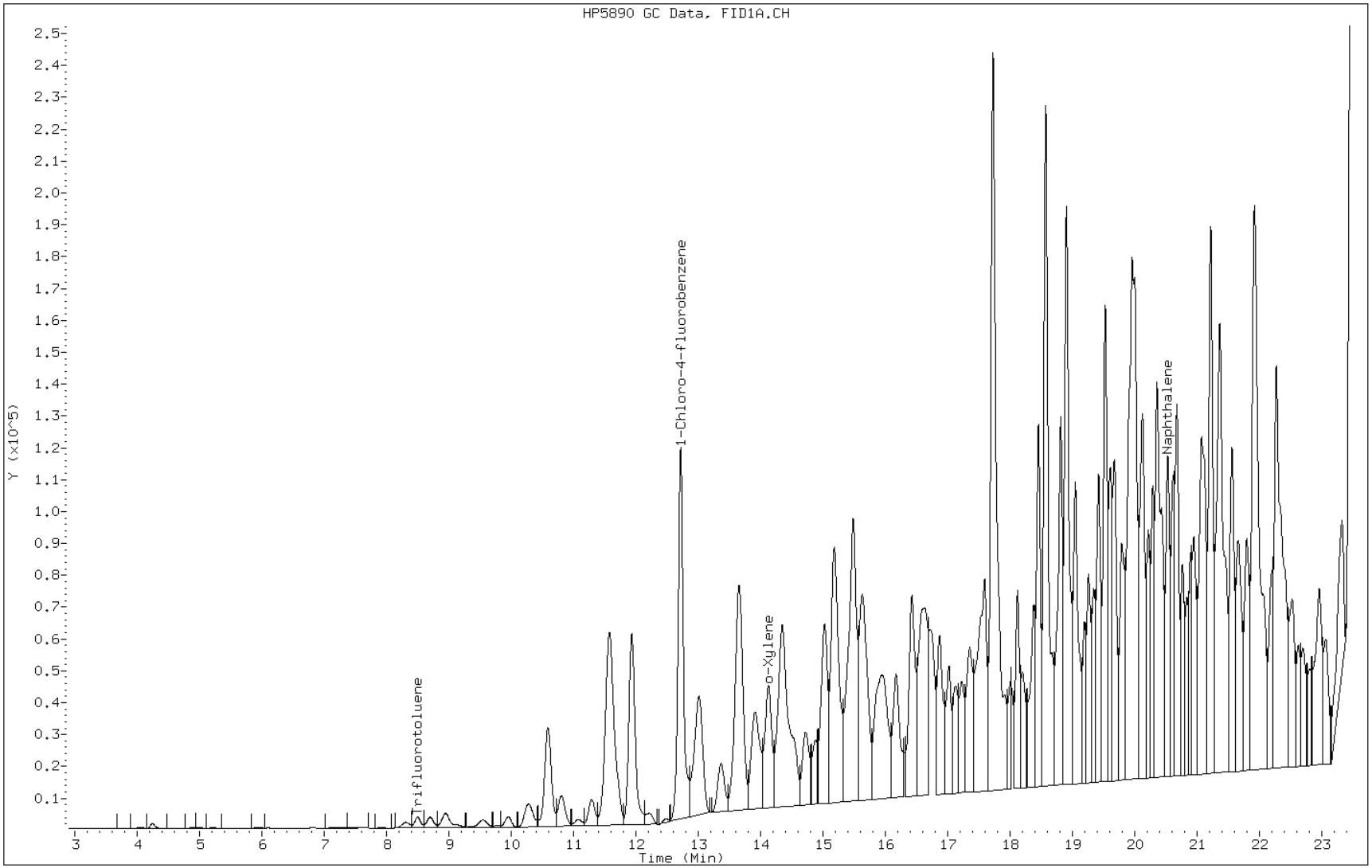
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 305B2301.D

Date: 31-JAN-2012 01:31

Client ID: SS-3 Instrument: GC_H.i

Sample Info: 280-1222817,3 Operator: mps



Manual Integration Report

Data File: 305B2301.D
Inj. Date and Time: 31-JAN-2012 01:31
Instrument ID: GC_H.i
Client ID: SS-3
Compound: 9 o-Xylene
CAS #: 95-47-6
Report Date: 01/31/2012

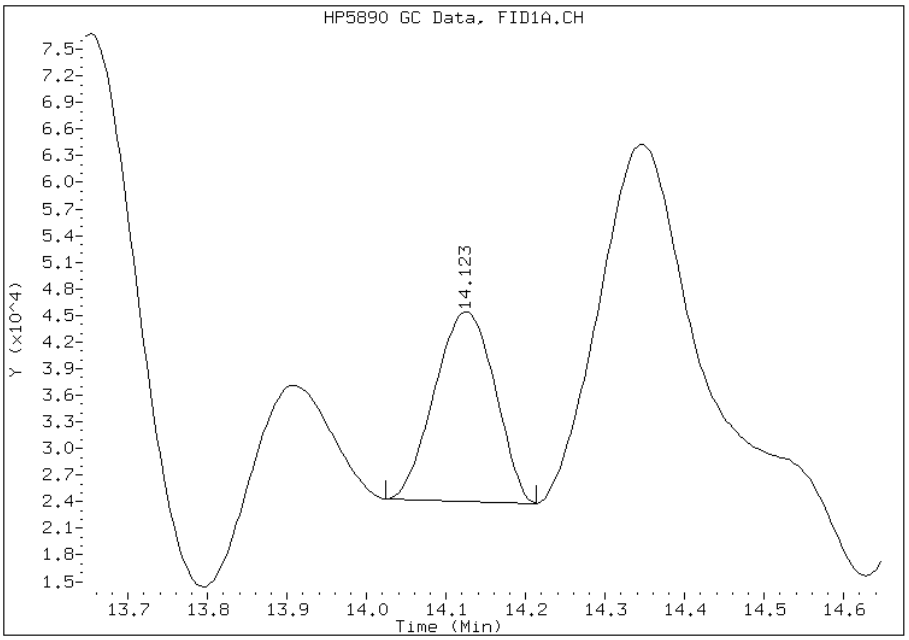
Processing Integration Results

RT: 14.12

Response: 112923

Amount: 3.19

Conc: 77633.62



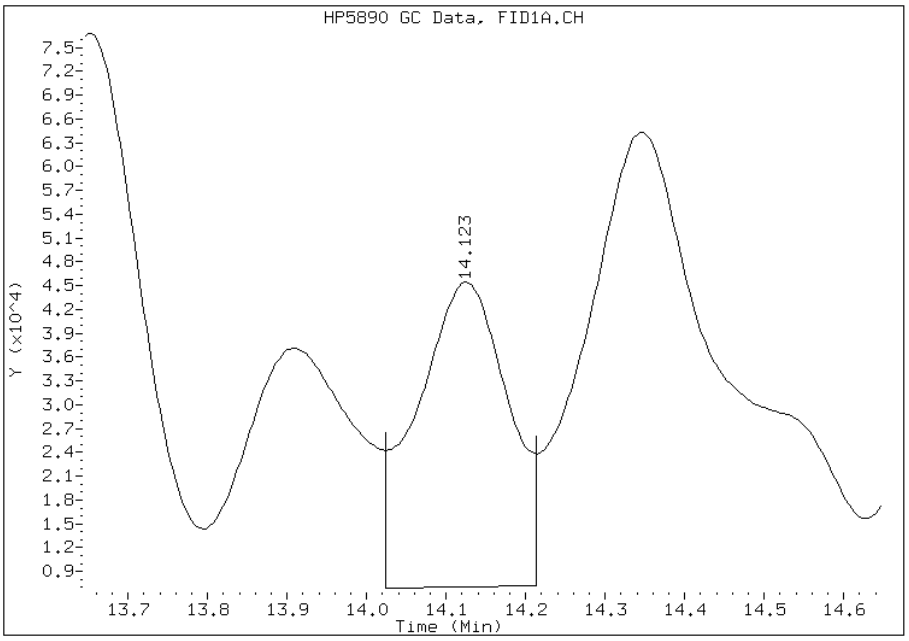
Manual Integration Results

RT: 14.12

Response: 310355

Amount: 8.78

Conc: 4277.88



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 305B2301.D
Inj. Date and Time: 31-JAN-2012 01:31
Instrument ID: GC_H.i
Client ID: SS-3
Compound: 3 Trifluorotoluene
CAS #: 98-08-8
Report Date: 01/31/2012

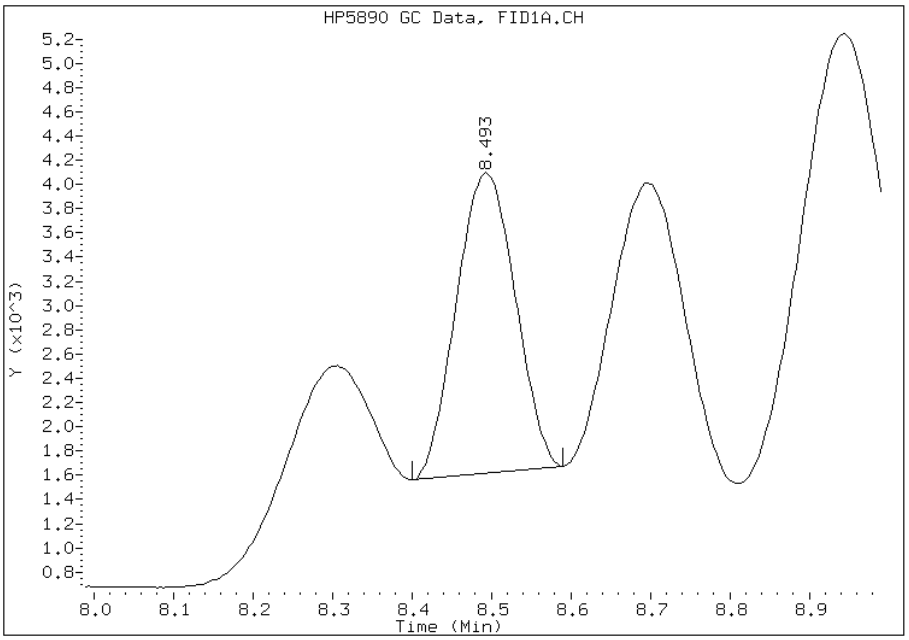
Processing Integration Results

RT: 8.49

Response: 12763

Amount: 0.80

Conc: 1952.08



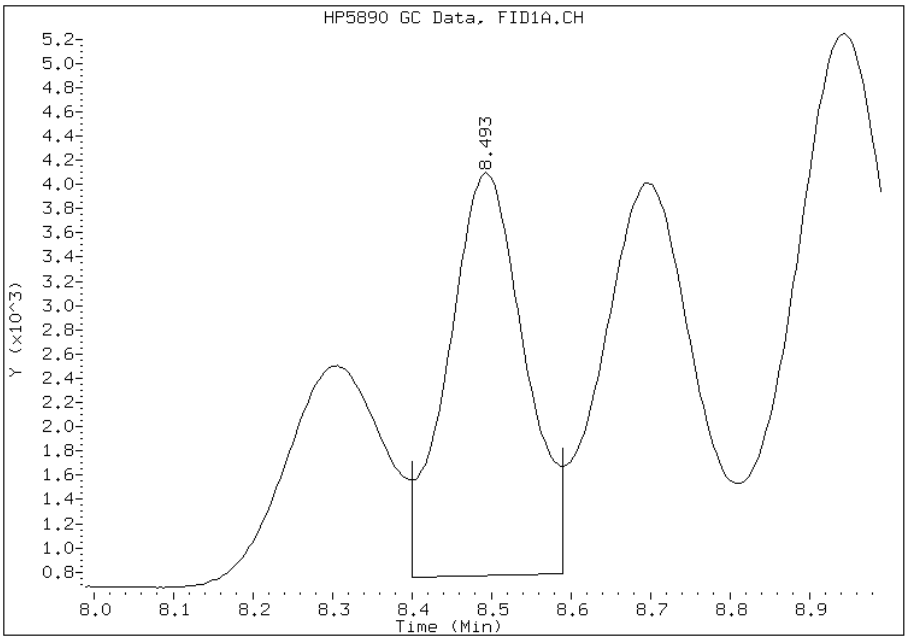
Manual Integration Results

RT: 8.49

Response: 22588

Amount: 1.34

Conc: 65.43



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 305B2301.D
Inj. Date and Time: 31-JAN-2012 01:31
Instrument ID: GC_H.i
Client ID: SS-3
Compound: 15 Naphthalene
CAS #: 91-20-3
Report Date: 01/31/2012

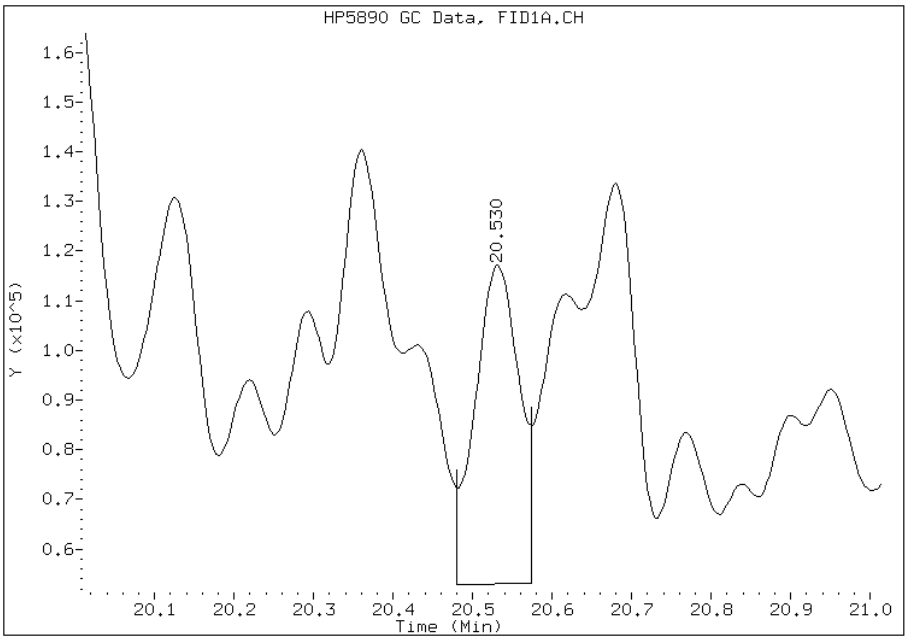
Processing Integration Results

RT: 20.53

Response: 246018

Amount: 8.20

Conc: 199778.54



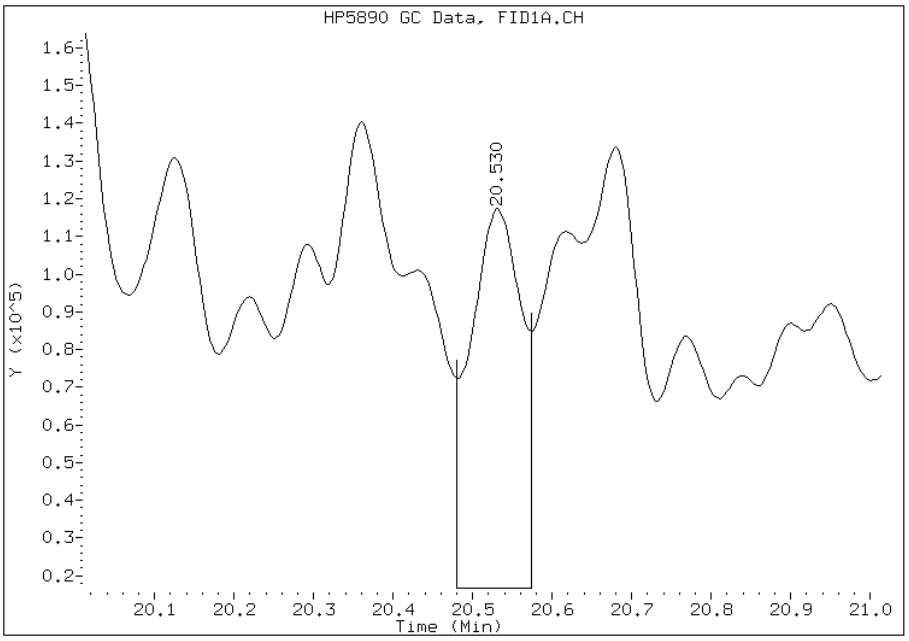
Manual Integration Results

RT: 20.53

Response: 461487

Amount: 15.91

Conc: 7753.22



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 305B2301.D
Inj. Date and Time: 31-JAN-2012 01:31
Instrument ID: GC_H.i
Client ID: SS-3
Compound: 5 1-Chloro-4-fluorobenzene
CAS #: 352-33-0
Report Date: 01/31/2012

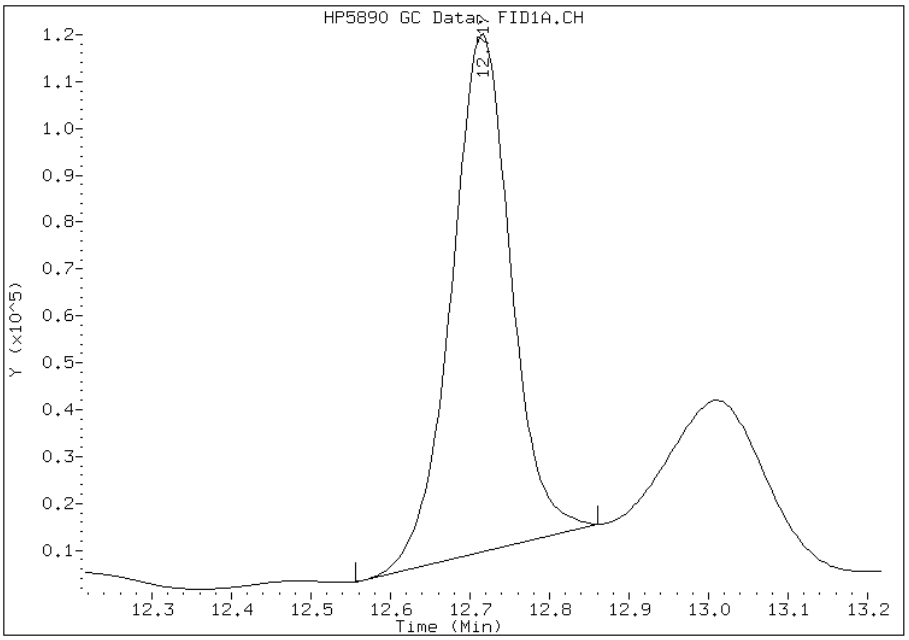
Processing Integration Results

RT: 12.72

Response: 577671

Amount: 30.00

Conc: 730994.15



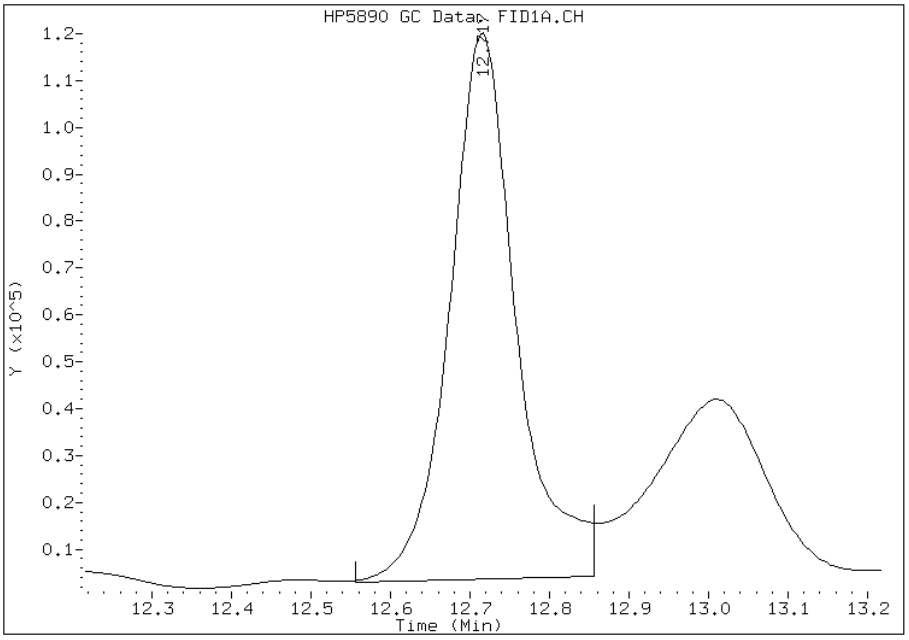
Manual Integration Results

RT: 12.72

Response: 682612

Amount: 30.00

Conc: 14619.88



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 13:13
Manual Integration Reason: Baseline Event

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-3 Lab Sample ID: 280-24850-3

Matrix: Solid Lab File ID: 305B2301.D

Analysis Method: 8021B Date Collected: 01/19/2012 11:26

Sample wt/vol: 10.26(g) Date Analyzed: 01/31/2012 01:31

Soil Aliquot Vol: 5 (mL) Dilution Factor: 10

Soil Extract Vol.: 500(mL) GC Column: RTX-1 (60.53) ID: 0.53(mm)

% Moisture: 12.4 Level: (low/med) Medium

Analysis Batch No.: 105566 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
71-43-2	Benzene	ND		560
108-88-3	Toluene	ND		560
179601-23-1	m-Xylene & p-Xylene	ND		560
95-47-6	o-Xylene	1400	p	560
91-20-3	Naphthalene	17000	P	560

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	93	D	82-115

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b2.B\305B2301.D
Lab Smp Id: 280-24850-A-3-B Client Smp ID: SS-3
Inj Date : 31-JAN-2012 01:31
Operator : mps Inst ID: GC_H.i
Smp Info : 280-1222817,3
Misc Info : 280-24850-A-3-B
Comment   : REV. OLMO1.1.1
Method   : \\DenSvr03\Public\chem\GCV\GC_H.i\013012b2.B\H2.m
Meth Date : 31-Jan-2012 12:23 SmithM Quant Type: ISTD
Cal Date : 29-NOV-2011 17:57 Cal File: 203B0901.D
Als bottle: 305
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: mnBTEX.sub
Target Version: 4.14
Processing Host: DENPC290

Concentration Formula: Amt * DF * Uf*Vp/Va*Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Ws	10.260	Weight of sample extracted (g)
Uf	1000.000	unit correction factor (mg/g)
Vp	5.000	final sample volume (ml)
Va	100.000	vlm methanol added to purge vlm (ul)
Vf	10.000	vlm methanol used for extraction (ml)
Cpnd Variable		Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/Kg)
	1 Methyl tert-butylether	Compound Not Detected.					
	2 Benzene	Compound Not Detected.					
$	3 Trifluorotoluene	7.936	7.933	(0.695)	14933	2.79678	136.295(RM)
	4 Toluene	Compound Not Detected.					
*	5 1-Chloro-4-fluorobenzene	11.420	11.420	(1.000)	264947	30.0000	(M)
	7 Ethylbenzene	12.100	12.133	(1.060)	44760	3.24417	1580.98(M)
	8 m+p-Xylene	Compound Not Detected.					
	9 o-Xylene	12.956	12.990	(1.135)	34795	2.49577	1216.26(M)
	15 Naphthalene	19.166	19.173	(1.678)	346597	31.1479	15179.3(M)
M	16 Total Xylene				34795	2.49577	1216.26

QC Flag Legend

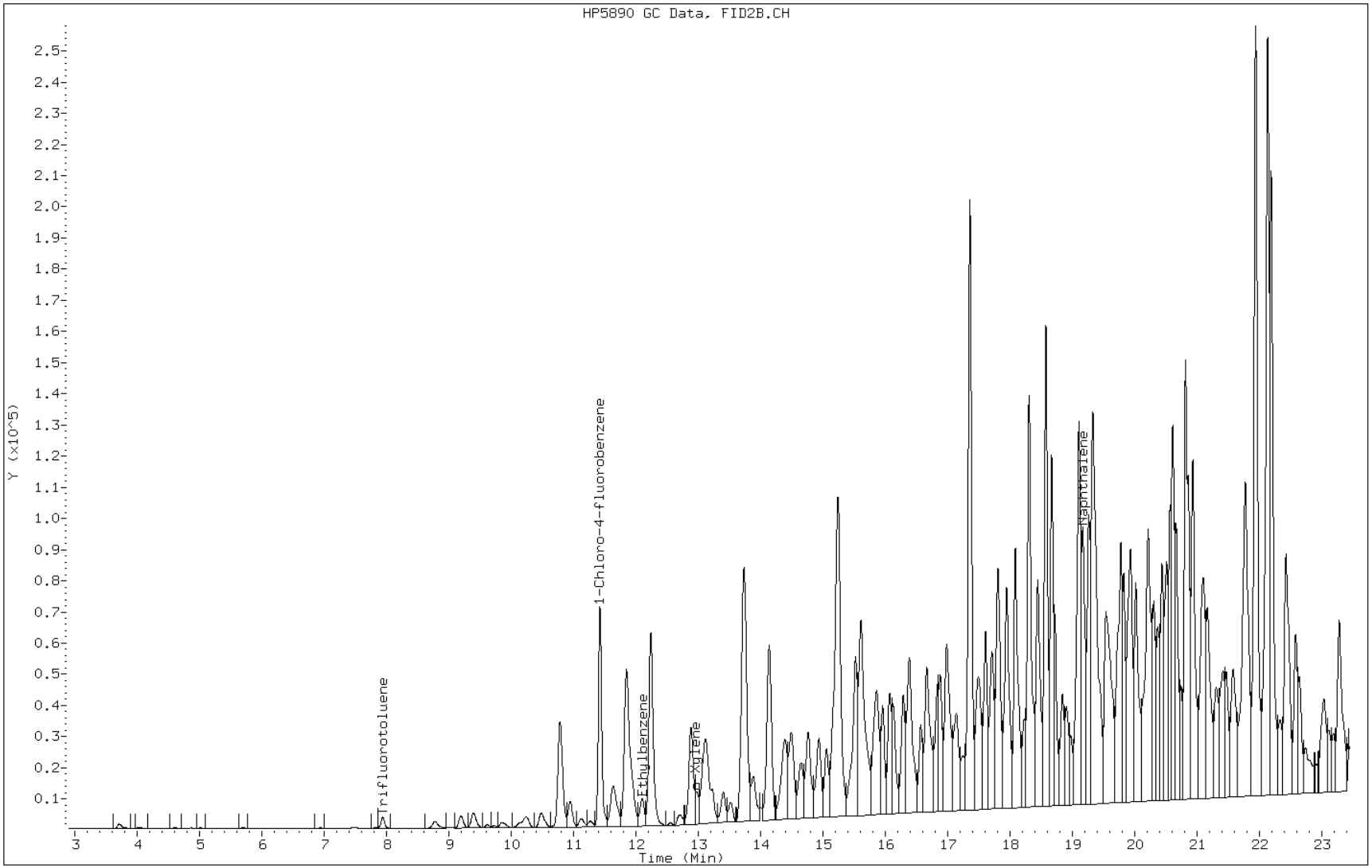
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 305B2301.D

Date: 31-JAN-2012 01:31

Client ID: SS-3 Instrument: GC_H.i

Sample Info: 280-1222817,3 Operator: mps



Manual Integration Report

Data File: 305B2301.D
Inj. Date and Time: 31-JAN-2012 01:31
Instrument ID: GC_H.i
Client ID: SS-3
Compound: 7 Ethylbenzene
CAS #: 100-41-4
Report Date: 01/31/2012

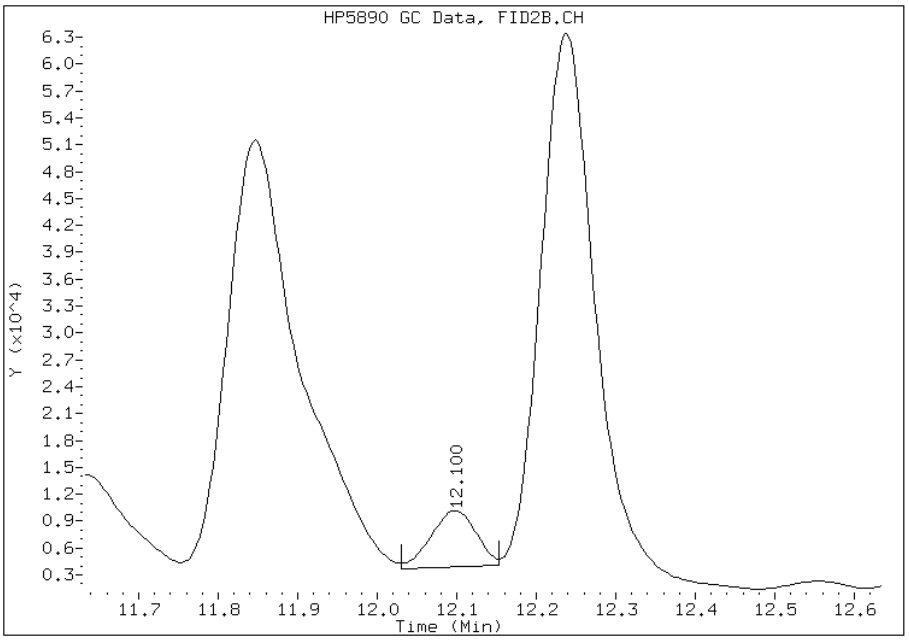
Processing Integration Results

RT: 12.10

Response: 24747

Amount: 1.86

Conc: 45295.81



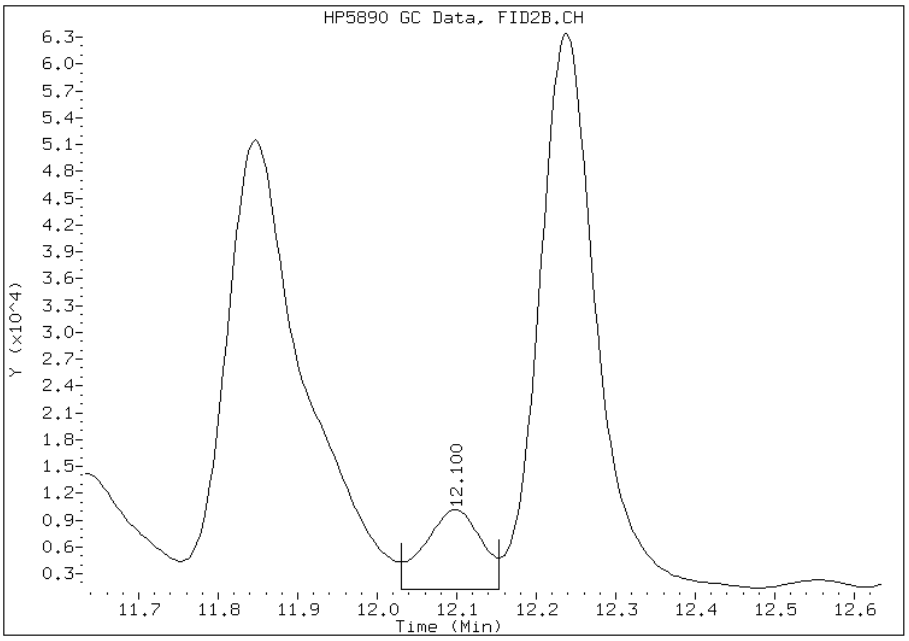
Manual Integration Results

RT: 12.10

Response: 44760

Amount: 3.24

Conc: 1580.98



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:48
Manual Integration Reason: Baseline Event

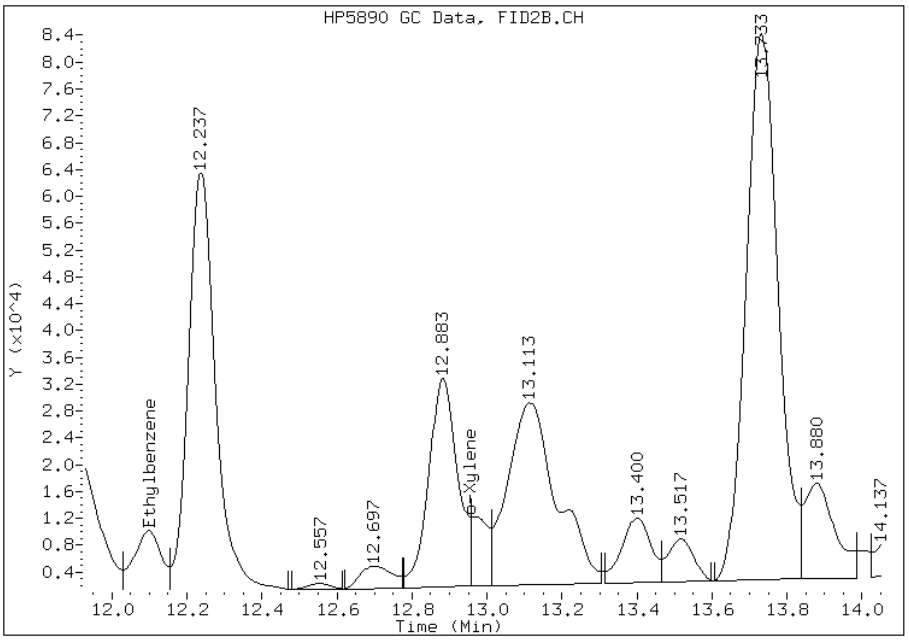
Manual Integration Report

Data File: 305B2301.D
Inj. Date and Time: 31-JAN-2012 01:31
Instrument ID: GC_H.i
Client ID: SS-3
Compound: 9 o-Xylene
CAS #: 95-47-6
Report Date: 01/31/2012

Processing Integration Results

Not Detected

Expected RT: 12.99



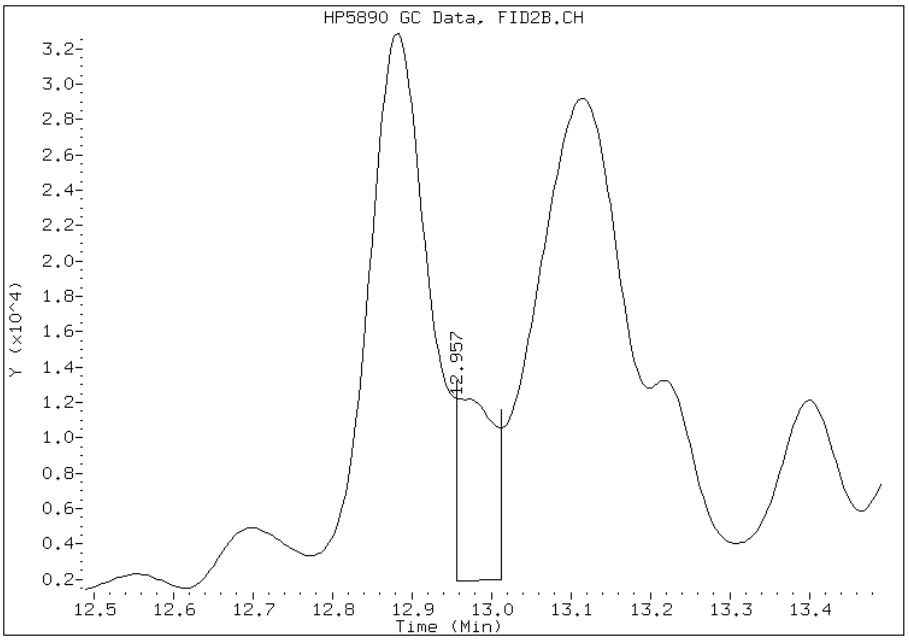
Manual Integration Results

RT: 12.96

Response: 34795

Amount: 2.50

Conc: 1216.26



Manually Integrated By: SmithM
Modification Date:
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 305B2301.D
Inj. Date and Time: 31-JAN-2012 01:31
Instrument ID: GC_H.i
Client ID: SS-3
Compound: 3 Trifluorotoluene
CAS #: 98-08-8
Report Date: 01/31/2012

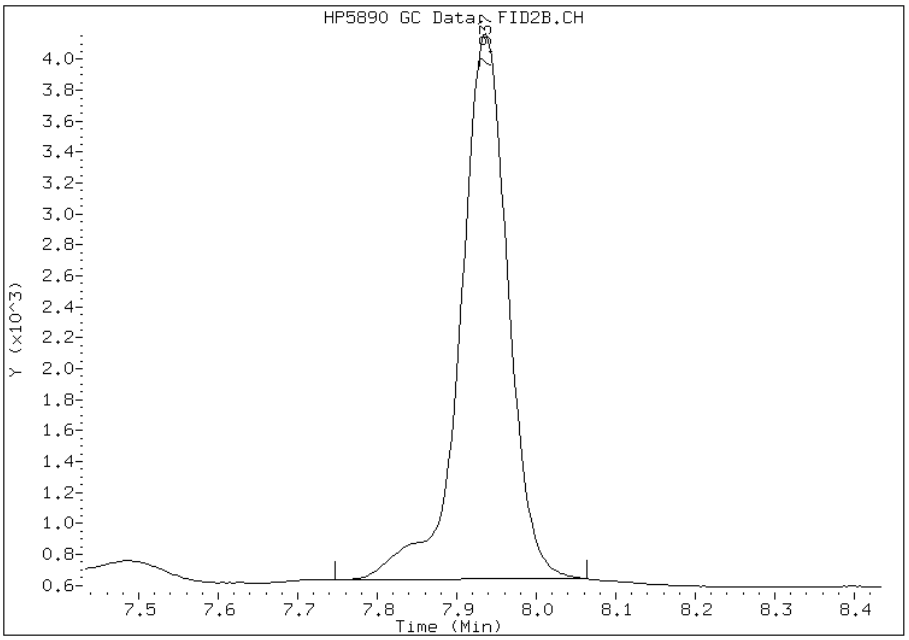
Processing Integration Results

RT: 7.94

Response: 14837

Amount: 2.78

Conc: 6772.56



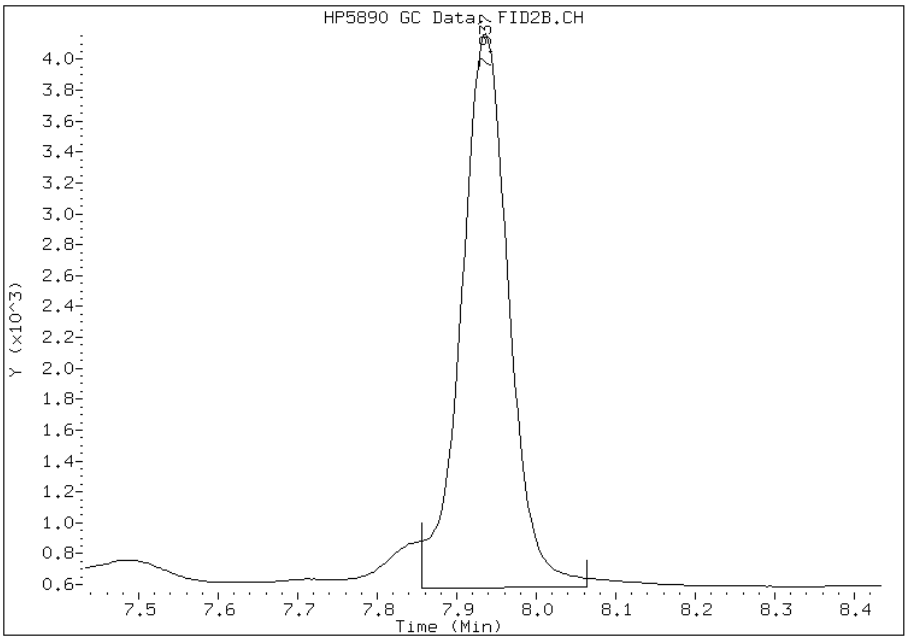
Manual Integration Results

RT: 7.94

Response: 14933

Amount: 2.80

Conc: 136.30



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:48
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 305B2301.D
Inj. Date and Time: 31-JAN-2012 01:31
Instrument ID: GC_H.i
Client ID: SS-3
Compound: 15 Naphthalene
CAS #: 91-20-3
Report Date: 01/31/2012

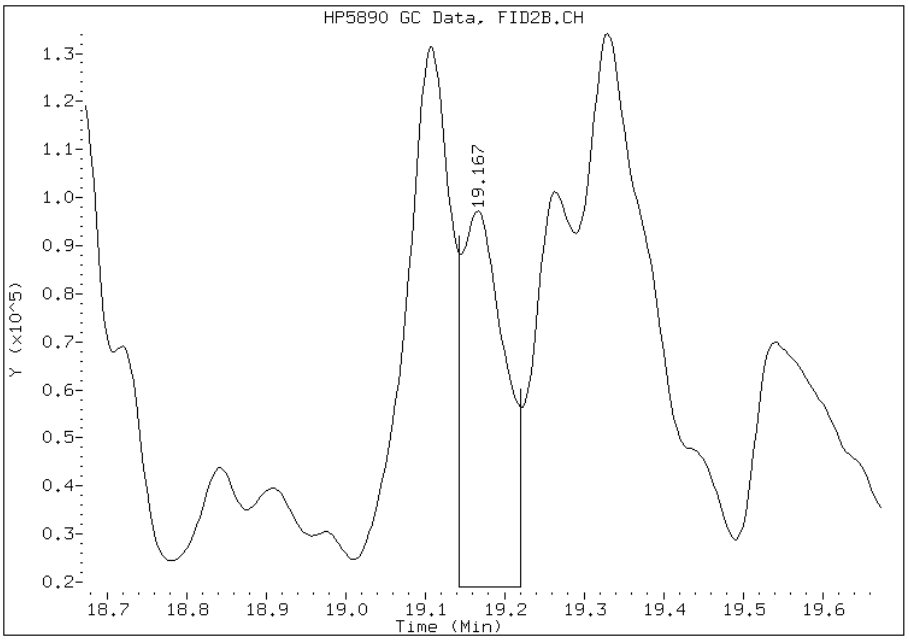
Processing Integration Results

RT: 19.17

Response: 284681

Amount: 25.46

Conc: 620257.97



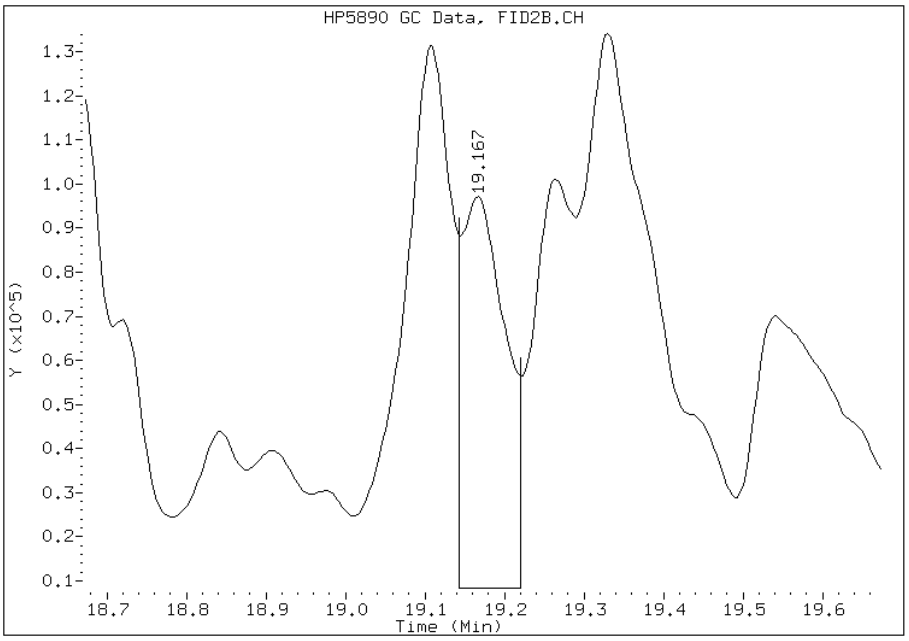
Manual Integration Results

RT: 19.17

Response: 346597

Amount: 31.15

Conc: 15179.27



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 305B2301.D
Inj. Date and Time: 31-JAN-2012 01:31
Instrument ID: GC_H.i
Client ID: SS-3
Compound: 5 1-Chloro-4-fluorobenzene
CAS #: 352-33-0
Report Date: 01/31/2012

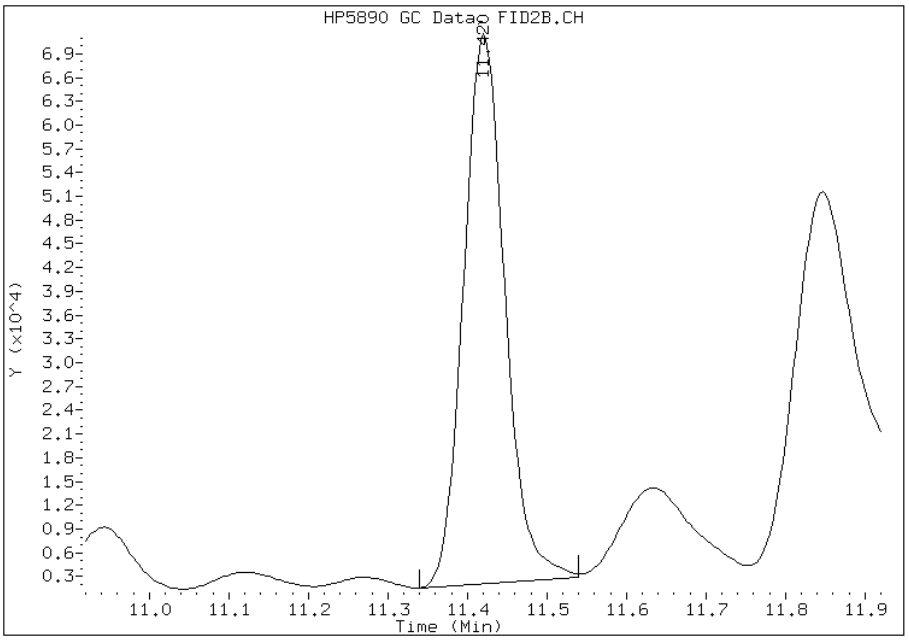
Processing Integration Results

RT: 11.42

Response: 251103

Amount: 30.00

Conc: 730994.15



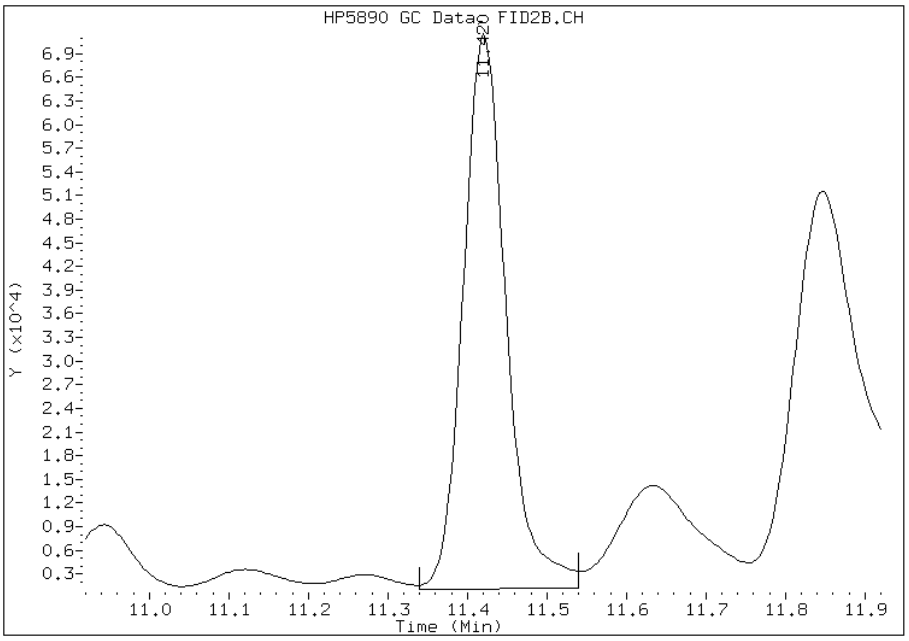
Manual Integration Results

RT: 11.42

Response: 264947

Amount: 30.00

Conc: 14619.88



Manually Integrated By: SmithM
Modification Date: 31-Jan-2012 12:48
Manual Integration Reason: Baseline Event

Method 8015B - DRO

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

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-1 Lab Sample ID: 280-24850-1

Matrix: Solid Lab File ID: 039B3901.D

Analysis Method: 8015B Date Collected: 01/19/2012 11:00

Extraction Method: 3546 Date Extracted: 01/23/2012 19:46

Sample wt/vol: 30.1(g) Date Analyzed: 01/27/2012 14:06

Con. Extract Vol.: 10000(uL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: RTX-1 (30.32) ID: 0.25(mm)

% Moisture: 15.7 GPC Cleanup:(Y/N) N

Analysis Batch No.: 105490 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00143	Diesel Range Organics [C10-C28]	48000		470
STL00255	C10-C36	63000		470

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	49-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U.i\012612c1.B\039B3901.D
Report Date: 31-Jan-2012 09:58

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U.i\012612c1.B\039B3901.D
Lab Smp Id: 280-24850-A-1-A Client Smp ID: SS-1
Inj Date : 27-JAN-2012 14:06
Operator : MB Inst ID: GC_U.i
Smp Info : 280-1222230,50-1
Misc Info : 280-24850-A-1-A
Comment   :
Method   : \\DenSvr03\Public\chem\GCS\GC_U.i\012612c1.B\DR01.m
Meth Date : 31-Jan-2012 09:58 GC_U.i Quant Type: ESTD
Cal Date : 20-JAN-2012 14:45 Cal File: 055B5501.D
Als bottle: 39
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: C10-28(DRO).sub
Target Version: 4.14
Processing Host: DENPC248

Concentration Formula: Amt * DF * Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vf	10000.000	Final Volume of Extract (uL)
Ws	30.100	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/Kg)
S 3 C10-C28	0.570-7.383			23681371	12239.9	40660000(M)
S 4 C10 - C36	0.593-8.760			30707806	15868.2	52720000(M)
S 180 C25-36	6.783-8.747			10918974	6775.24	22510000(M)
$ 1 o-Terphenyl	Compound Not Detected.					
$ 6 n-Octacosane	Compound Not Detected.					

QC Flag Legend

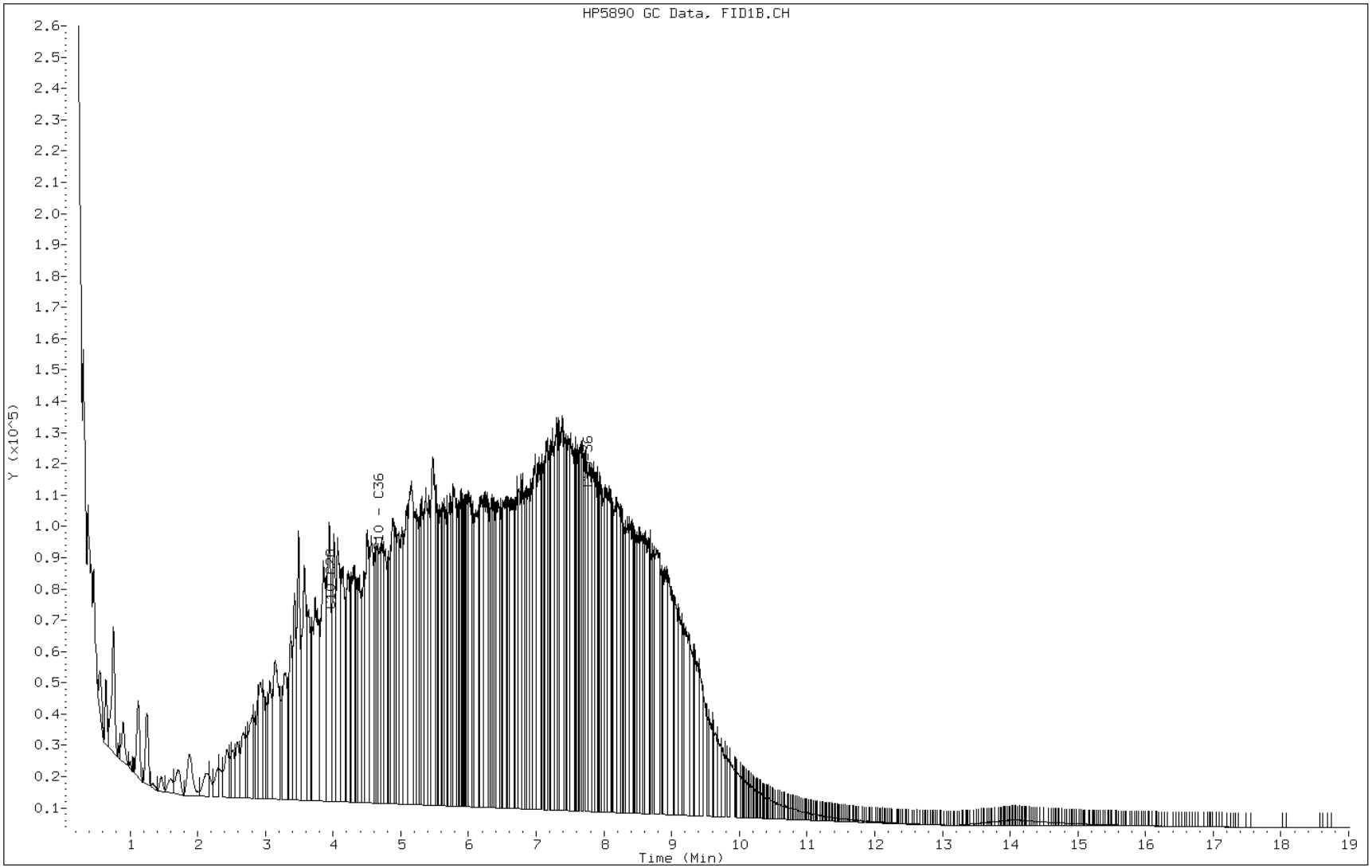
M - Compound response manually integrated.

Data File: 039B3901.D

Date: 27-JAN-2012 14:06

Client ID: SS-1 Instrument: GC_U.i

Sample Info: 280-1222230,50-1 Operator: MB



Manual Integration Report

Data File: 039B3901.D
Inj. Date and Time: 27-JAN-2012 14:06
Instrument ID: GC_U.i
Client ID: SS-1
Compound: 3 C10-C28
CAS #: STL00143
Report Date: 01/31/2012

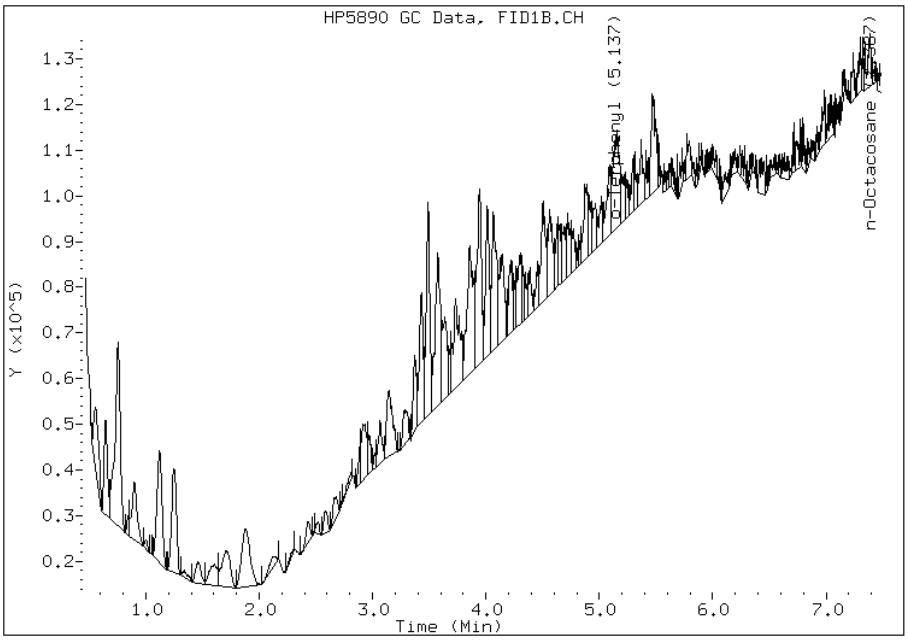
Processing Integration Results

RT: 3.98

Response: 2703574

Amount: 1397.37

Conc: 464241.48



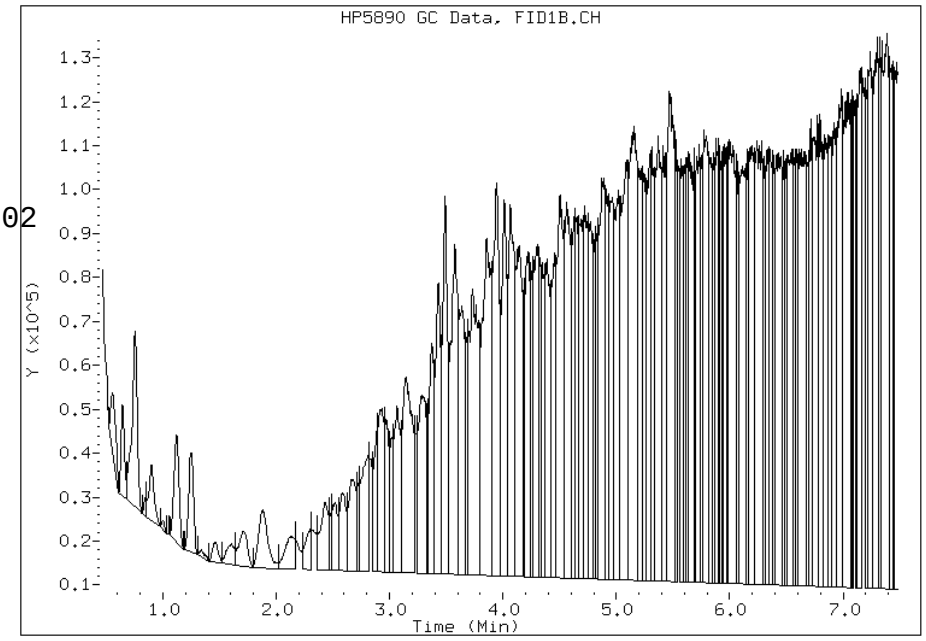
Manual Integration Results

RT: 3.98

Response: 23681371

Amount: 12239.93

Conc: 40664227.02



Manually Integrated By: birdsellm
Modification Date:
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 039B3901.D
Inj. Date and Time: 27-JAN-2012 14:06
Instrument ID: GC_U.i
Client ID: SS-1
Compound: 4 C10 - C36
CAS #: STL00255
Report Date: 01/31/2012

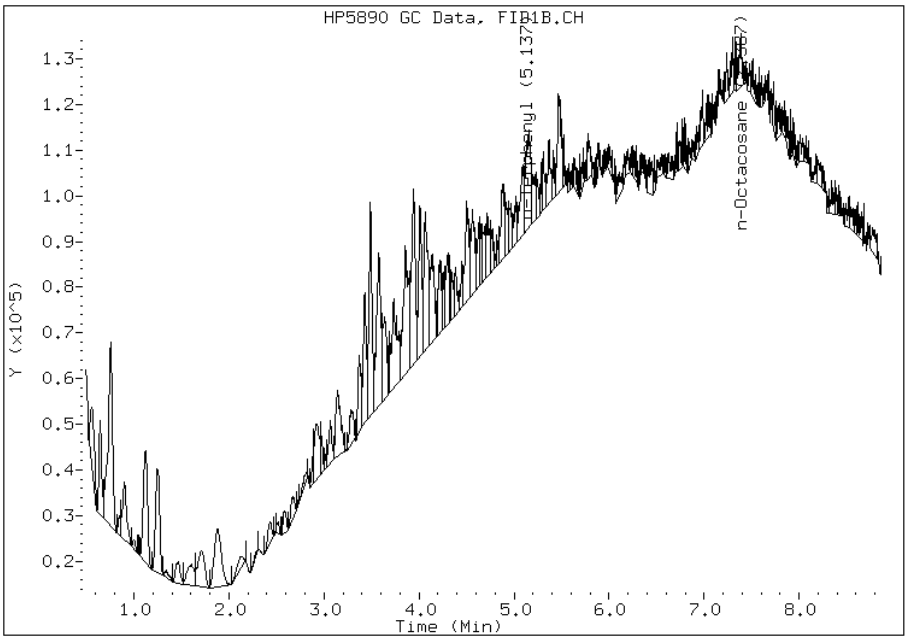
Processing Integration Results

RT: 4.68

Response: 2925653

Amount: 1511.83

Conc: 502269.05



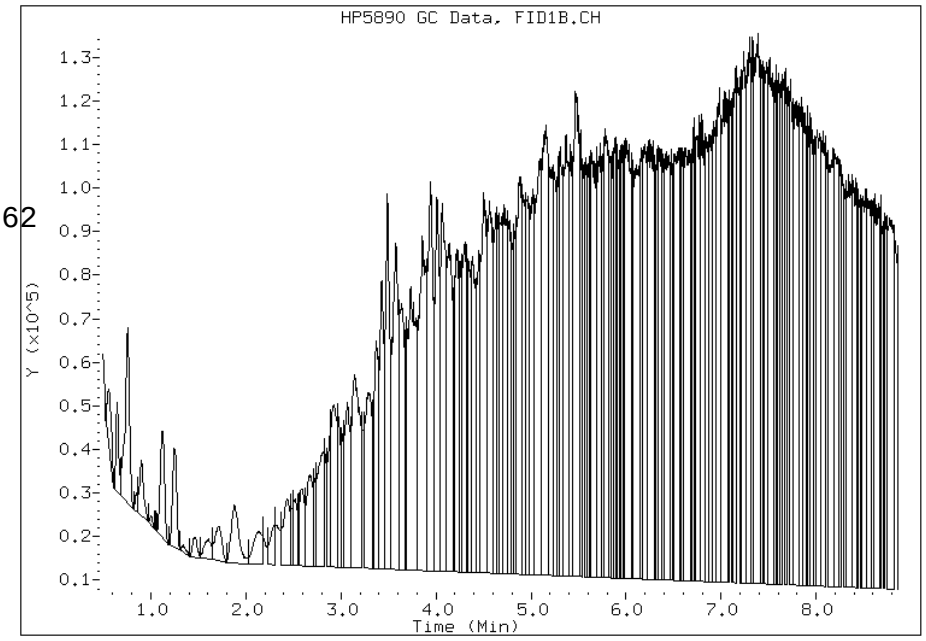
Manual Integration Results

RT: 4.68

Response: 30707806

Amount: 15868.24

Conc: 52718420.62



Manually Integrated By: birdsellm
Modification Date: 31-Jan-2012 09:56
Manual Integration Reason: Baseline Event

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-2 | Lab Sample ID: 280-24850-2

Matrix: Solid | Lab File ID: 040B4001.D

Analysis Method: 8015B | Date Collected: 01/19/2012 11:14

Extraction Method: 3546 | Date Extracted: 01/23/2012 19:46

Sample wt/vol: 30.8(g) | Date Analyzed: 01/27/2012 14:34

Con. Extract Vol.: 10000(uL) | Dilution Factor: 10

Injection Volume: 1(uL) | GC Column: RTX-1 (30.32) ID: 0.25(mm)

% Moisture: 15.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 105490 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00143	Diesel Range Organics [C10-C28]	49000		460
STL00255	C10-C36	65000		460

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	49-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U.i\012612c1.B\040B4001.D
Report Date: 31-Jan-2012 09:58

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U.i\012612c1.B\040B4001.D
Lab Smp Id: 280-24850-A-2-A Client Smp ID: SS-2
Inj Date : 27-JAN-2012 14:34
Operator : MB Inst ID: GC_U.i
Smp Info : 280-1222231,2
Misc Info : 280-24850-A-2-A
Comment   :
Method   : \\DenSvr03\Public\chem\GCS\GC_U.i\012612c1.B\DR01.m
Meth Date : 31-Jan-2012 09:58 GC_U.i Quant Type: ESTD
Cal Date : 20-JAN-2012 14:45 Cal File: 055B5501.D
Als bottle: 40
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: C10-28(DRO).sub
Target Version: 4.14
Processing Host: DENPC248

Concentration Formula: Amt * DF * Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vf	10000.000	Final Volume of Extract (uL)
Ws	30.800	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/Kg)
S 3 C10-C28	0.570-7.383			24696008	12764.4	41440000(M)
S 4 C10 - C36	0.593-8.760			32450481	16768.8	54440000(M)
S 180 C25-36	6.783-8.747			11690645	7254.06	23550000(M)
$ 1 o-Terphenyl	Compound Not Detected.					
$ 6 n-Octacosane	Compound Not Detected.					

QC Flag Legend

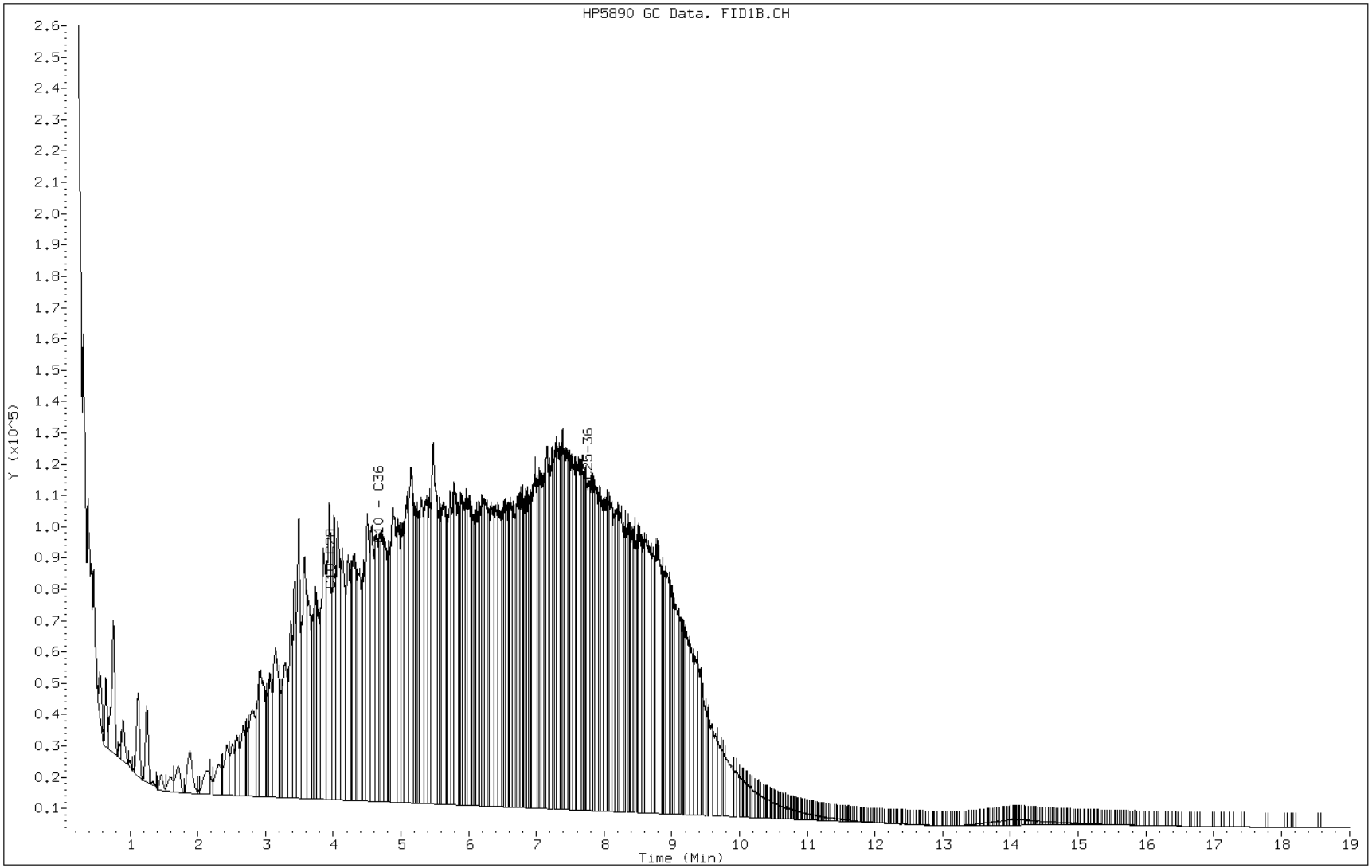
M - Compound response manually integrated.

Data File: 040B4001.D

Date: 27-JAN-2012 14:34

Client ID: SS-2 Instrument: GC_U.i

Sample Info: 280-1222231,2 Operator: MB



Manual Integration Report

Data File: 040B4001.D
Inj. Date and Time: 27-JAN-2012 14:34
Instrument ID: GC_U.i
Client ID: SS-2
Compound: 3 C10-C28
CAS #: STL00143
Report Date: 01/31/2012

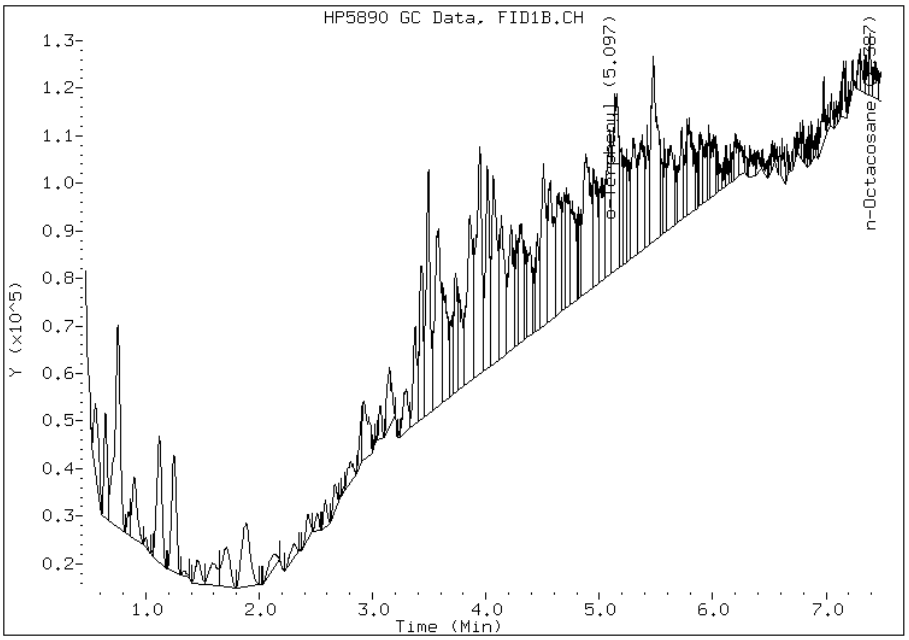
Processing Integration Results

RT: 3.98

Response: 4356652

Amount: 2251.78

Conc: 731095.87



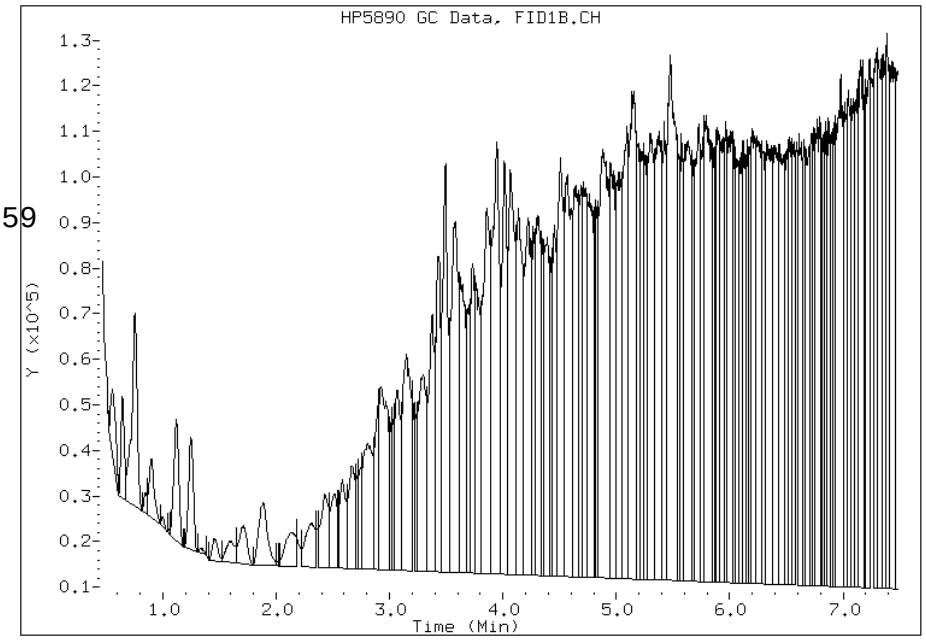
Manual Integration Results

RT: 3.98

Response: 24696008

Amount: 12764.36

Conc: 41442716.59



Manually Integrated By: birdsellm
Modification Date:
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 040B4001.D
Inj. Date and Time: 27-JAN-2012 14:34
Instrument ID: GC_U.i
Client ID: SS-2
Compound: 4 C10 - C36
CAS #: STL00255
Report Date: 01/31/2012

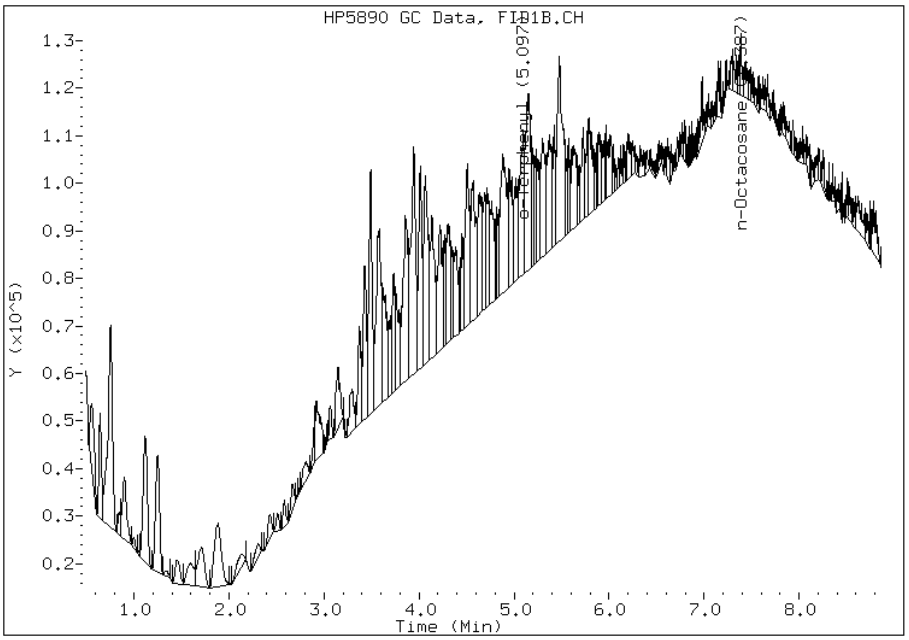
Processing Integration Results

RT: 4.68

Response: 4627768

Amount: 2391.40

Conc: 776427.59



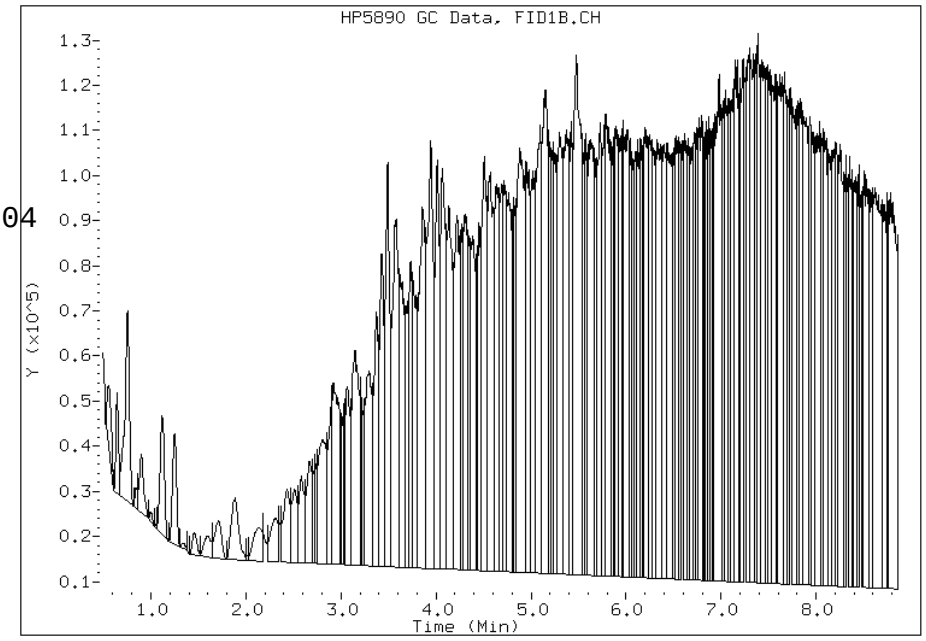
Manual Integration Results

RT: 4.68

Response: 32450481

Amount: 16768.77

Conc: 54444062.04



Manually Integrated By: birdsellm
Modification Date: 31-Jan-2012 09:56
Manual Integration Reason: Baseline Event

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-24850-1

SDG No.:

Client Sample ID: SS-3 Lab Sample ID: 280-24850-3

Matrix: Solid Lab File ID: 041B4101.D

Analysis Method: 8015B Date Collected: 01/19/2012 11:26

Extraction Method: 3546 Date Extracted: 01/23/2012 19:46

Sample wt/vol: 30.1(g) Date Analyzed: 01/27/2012 15:02

Con. Extract Vol.: 10000(uL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: RTX-1 (30.32) ID: 0.25(mm)

% Moisture: 12.4 GPC Cleanup:(Y/N) N

Analysis Batch No.: 105490 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL
STL00143	Diesel Range Organics [C10-C28]	48000		450
STL00255	C10-C36	64000		450

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	0	D	49-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U.i\012612c1.B\041B4101.D
Report Date: 31-Jan-2012 09:58

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U.i\012612c1.B\041B4101.D
Lab Smp Id: 280-24850-A-3-A Client Smp ID: SS-3
Inj Date : 27-JAN-2012 15:02
Operator : MB Inst ID: GC_U.i
Smp Info : 280-1222232,3
Misc Info : 280-24850-A-3-A
Comment   :
Method   : \\DenSvr03\Public\chem\GCS\GC_U.i\012612c1.B\DR01.m
Meth Date : 31-Jan-2012 09:58 GC_U.i Quant Type: ESTD
Cal Date : 20-JAN-2012 14:45 Cal File: 055B5501.D
Als bottle: 41
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: C10-28(DRO).sub
Target Version: 4.14
Processing Host: DENPC248

Concentration Formula: Amt * DF * Vf/Ws * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Vf	10000.000	Final Volume of Extract (uL)
Ws	30.100	Weight of sample extracted (g)
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/Kg)
S 3 C10-C28	0.570-7.383			24717185	12775.3	42440000(M)
S 4 C10 - C36	0.593-8.760			32427226	16756.8	55670000(M)
S 180 C25-36	6.783-8.747			11631525	7217.38	23980000(M)
$ 1 o-Terphenyl	Compound Not Detected.					
$ 6 n-Octacosane	Compound Not Detected.					

QC Flag Legend

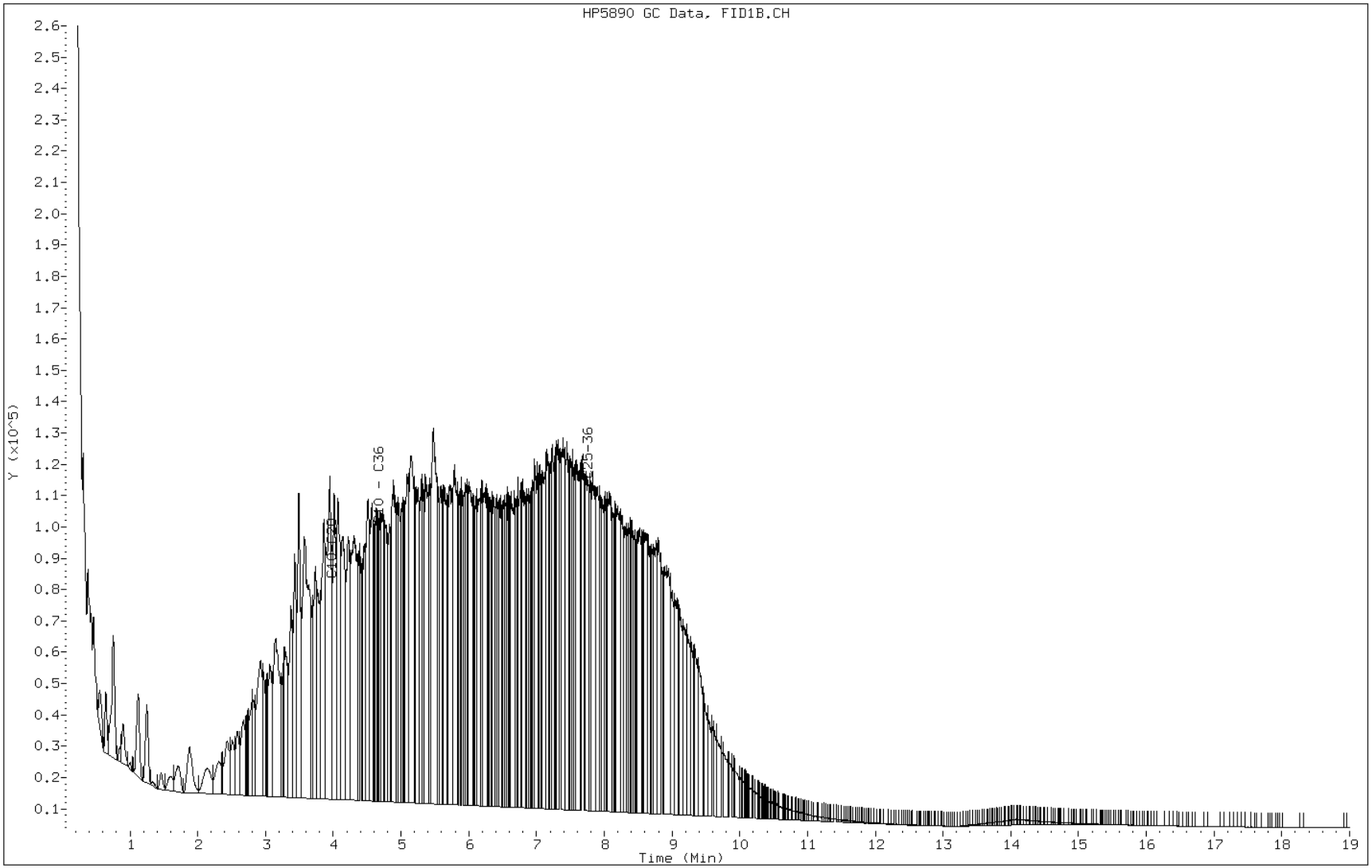
M - Compound response manually integrated.

Data File: 041B4101.D

Date: 27-JAN-2012 15:02

Client ID: SS-3 Instrument: GC_U.i

Sample Info: 280-1222232,3 Operator: MB



Manual Integration Report

Data File: 041B4101.D
Inj. Date and Time: 27-JAN-2012 15:02
Instrument ID: GC_U.i
Client ID: SS-3
Compound: 3 C10-C28
CAS #: STL00143
Report Date: 01/31/2012

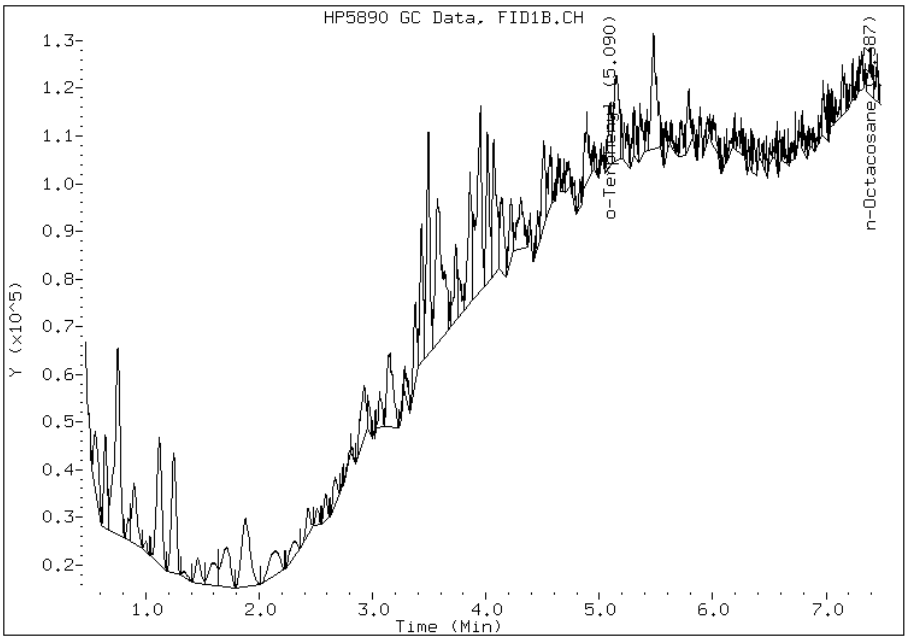
Processing Integration Results

RT: 3.98

Response: 2291757

Amount: 1184.52

Conc: 393526.74



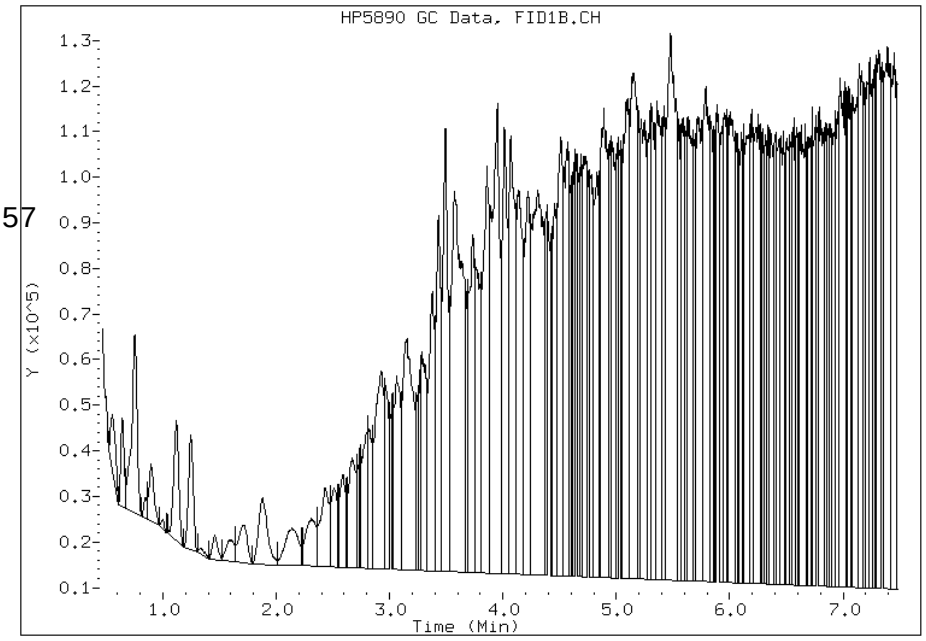
Manual Integration Results

RT: 3.98

Response: 24717185

Amount: 12775.30

Conc: 42442864.57



Manually Integrated By: birdsellm
Modification Date:
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 041B4101.D
Inj. Date and Time: 27-JAN-2012 15:02
Instrument ID: GC_U.i
Client ID: SS-3
Compound: 4 C10 - C36
CAS #: STL00255
Report Date: 01/31/2012

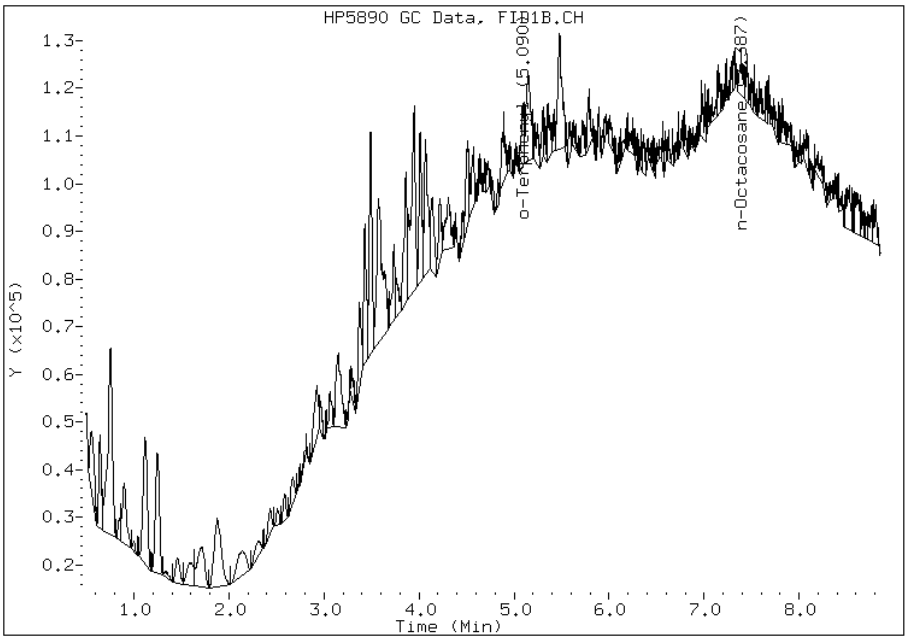
Processing Integration Results

RT: 4.68

Response: 2574564

Amount: 1330.40

Conc: 441994.94



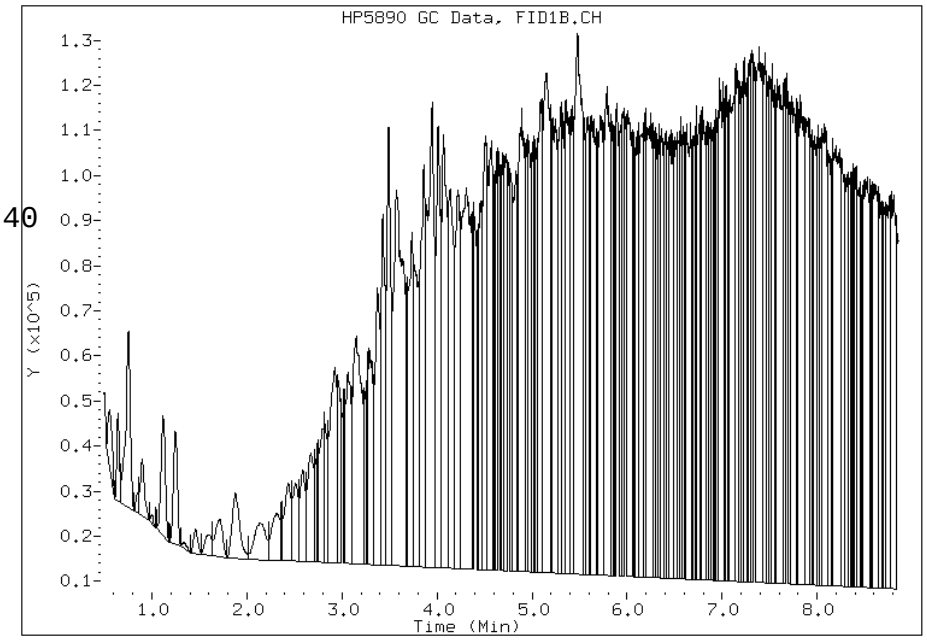
Manual Integration Results

RT: 4.68

Response: 32427226

Amount: 16756.75

Conc: 55670279.40



Manually Integrated By: birdsellm
Modification Date: 31-Jan-2012 09:56
Manual Integration Reason: Baseline Event

Shipping and Receiving Documents

3.1 Dal 1/20

Denver
4955 Yarrow Street
Arvada, CO 80002
phone 303.736.0100 fax 303.431.7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: John Axelson	Site Contact: John Axelson	Date: January 20, 2012	COC No:
Colorado Oil & Gas Conservation Commission	Tel/Fax: 303-637-7178	Lab Contact: Joe Egry	Carrier: NA	1 of 1 COCs
9203 E. 155th Drive	**Analysis Turnaround Time**			Job No.
Brighton, CO 80602	Calendar (C) or Work Days (W)			
303-637-7178	TAT if different from Below Standard x			SDG No.
303-637-7179	☐ 2 weeks			
Project Name: Beren Cook Battery NOAV #200337810	☐ 1 week			
SESE 12, T4S, R54W, Washington County	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TPH - 8015M for GRO	TPH - 8015M for DRO	TPH - 8015M for crude oil range organics	BTEX - 8021 + Napthalene	Sample Specific Notes:
SS-1	1/19/2012	11:00	Grab	Soil	1		X	X	X	X	
SS-2	1/19/12	11:14	Grab	Soil	1		X	X	X	X	
SS-3	1/19/12	11:26	Grab	Soil	1		X	X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☑

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☑ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: All three samples appeared to be saturated with crude oil. Please run extended carbon range to at least C38 to capture some of the crude oil range organics in addition to GRO & DRO. Remit pdf of lab report and invoice to John Axelson @ John.Axelson@state.co.us.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
John Axelson	COGCC	1/20/12 13:10		TAD	1/25/12 BIO
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-24850-1

Login Number: 24850

List Source: TestAmerica Denver

List Number: 1

Creator: Philipp, Nicholas A

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.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	