United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: **3/19/2012**

Subject: **Analytical Testing Results - Project R33911**
SDG: 12067A

From: **Brenda Bettencourt, Director**
EPA Region 9 Laboratory
MTS-2

To: **Richard Fetzer**
US EPA Region 3, Eastern Response Branch
3HS31

Attached are the results from the analysis of samples from the **Dimock Residential Groundwater** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Purgeable Petroleum Hydrocarbons by GC/FID

DIM0279790

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer	**US EPA Region 3, Eastern Response Branch**	**SDG:** 12067A
Project Number: R33911	**100 Gypsum Road**	**Reported:** 03/19/12 09:37
Project: Dimock Residential Groundwater	**Stroudsburg PA, 18360**	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
FB19	1203018-01	Water	03/05/12 09:36	03/07/12 10:00
HW60	1203018-02	Water	03/05/12 12:25	03/07/12 10:00
TB49	1203018-03	Water	03/05/12 07:15	03/07/12 10:00
HW56	1203018-04	Water	03/05/12 16:54	03/07/12 10:00
TB50	1203018-05	Water	03/05/12 10:00	03/07/12 10:00
FB20	1203020-01	Water	03/06/12 14:00	03/08/12 09:50
HW61	1203020-02	Water	03/06/12 15:42	03/08/12 09:50
HW61-P	1203020-03	Water	03/06/12 16:00	03/08/12 09:50
HW61z	1203020-04	Water	03/06/12 15:42	03/08/12 09:50
TB51	1203020-05	Water	03/06/12 07:05	03/08/12 09:50
FB21	1203024-01	Water	03/08/12 13:38	03/09/12 10:15
HW50	1203024-02	Water	03/08/12 15:09	03/09/12 10:15
TB52	1203024-03	Water	03/08/12 10:35	03/09/12 10:15

SDG ID 12067A

Purgeable Petroleum Hydrocarbons:

Samples in work order 1203024 (received on 3/9/12) were at received at 8 degees C. This is above the recommended temperature range of 0 to 6 degrees C. No significant impact on the sample results is expected.

Work Order(s)

1203018

1203020

1203024

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer
Project Number: R33911
Project: Dimock Residential Groundwater

US EPA Region 3, Eastern Response Branch
100 Gypsum Road
Stroudsburg PA, 18360

SDG: 12067A
Reported: 03/19/12 09:37

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1203018-01									**Water - Sampled: 03/05/12 09:36**
Sample ID: FB19									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			98 %	*76-121%*		"	"	"	
Lab ID: 1203018-02									**Water - Sampled: 03/05/12 12:25**
Sample ID: HW60									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			98 %	*76-121%*		"	"	"	
Lab ID: 1203018-03									**Water - Sampled: 03/05/12 07:15**
Sample ID: TB49									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			97 %	*76-121%*		"	"	"	
Lab ID: 1203018-04									**Water - Sampled: 03/05/12 16:54**
Sample ID: HW56									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			98 %	*76-121%*		"	"	"	
Lab ID: 1203018-05									**Water - Sampled: 03/05/12 10:00**
Sample ID: TB50									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			99 %	*76-121%*		"	"	"	
Lab ID: 1203020-01									**Water - Sampled: 03/06/12 14:00**
Sample ID: FB20									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			98 %	*76-121%*		"	"	"	
Lab ID: 1203020-02									**Water - Sampled: 03/06/12 15:42**
Sample ID: HW61									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			98 %	*76-121%*		"	"	"	
Lab ID: 1203020-03									**Water - Sampled: 03/06/12 16:00**
Sample ID: HW61-P									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			92 %	*76-121%*		"	"	"	
Lab ID: 1203020-04									**Water - Sampled: 03/06/12 15:42**
Sample ID: HW61z									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer	**US EPA Region 3, Eastern Response Branch**	**SDG:** 12067A
Project Number: R33911	**100 Gypsum Road**	**Reported:** 03/19/12 09:37
Project: Dimock Residential Groundwater	**Stroudsburg PA, 18360**	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1203020-04									**Water - Sampled: 03/06/12 15:42**
Sample ID: HW61z									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
Surrogate: a,a,a-Trifluorotoluene			98 %	*76-121%*		*B2C0041*	*03/08/12*	*03/08/12*	
Lab ID: 1203020-05									**Water - Sampled: 03/06/12 07:05**
Sample ID: TB51									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		54	F12	50	ug/L	B2C0041	03/08/12	03/08/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			94 %	*76-121%*		"	"	"	
Lab ID: 1203024-01									**Water - Sampled: 03/08/12 13:38**
Sample ID: FB21									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0060	03/13/12	03/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			95 %	*76-121%*		"	"	"	
Lab ID: 1203024-02									**Water - Sampled: 03/08/12 15:09**
Sample ID: HW50									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0060	03/13/12	03/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			96 %	*76-121%*		"	"	"	
Lab ID: 1203024-03									**Water - Sampled: 03/08/12 10:35**
Sample ID: TB52									**Purgeable Petroleum Hydrocarbons by EPA Method 8015C**
TPH as Gasoline		ND	U	50	ug/L	B2C0060	03/13/12	03/13/12	8015C/SOP380
Surrogate: a,a,a-Trifluorotoluene			95 %	*76-121%*		"	"	"	

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer	**US EPA Region 3, Eastern Response Branch**	**SDG:** 12067A
Project Number: R33911	**100 Gypsum Road**	**Reported:** 03/19/12 09:37
Project: Dimock Residential Groundwater	**Stroudsburg PA, 18360**	

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B2C0041 - 5030 P&T TPH-G - TPH - Purgeable										**Prepared & Analyzed: 03/08/12**
								Purgeable Petroleum Hydrocarbons by EPA Method 8015C - Quality Control		
Blank (B2C0041-BLK1)										
TPH as Gasoline	ND	U	50	ug/L						
Surrogate: a,a,a-Trifluorotoluene	*124*			"	*125*		99	*76-121*		
LCS (B2C0041-BS1)										
TPH as Gasoline	495		50	ug/L	500		99	75-114		200
Surrogate: a,a,a-Trifluorotoluene	*124*			"	*125*		99	*76-121*		
Matrix Spike (B2C0041-MS2)		**Source: 1203018-04**								
TPH as Gasoline	550		50	ug/L	500	ND	110	71-114		11
Surrogate: a,a,a-Trifluorotoluene	*121*			"	*125*		97	*76-121*		
Matrix Spike Dup (B2C0041-MSD2)		**Source: 1203018-04**								
TPH as Gasoline	553		50	ug/L	500	ND	111	71-114	0.6	11
Surrogate: a,a,a-Trifluorotoluene	*122*			"	*125*		98	*76-121*		
Batch B2C0060 - 5030 P&T TPH-G - TPH - Purgeable										**Prepared & Analyzed: 03/13/12**
								Purgeable Petroleum Hydrocarbons by EPA Method 8015C - Quality Control		
Blank (B2C0060-BLK1)										
TPH as Gasoline	ND	U	50	ug/L						
Surrogate: a,a,a-Trifluorotoluene	*119*			"	*125*		95	*76-121*		
LCS (B2C0060-BS1)										
TPH as Gasoline	488		50	ug/L	500		98	75-114		200
Surrogate: a,a,a-Trifluorotoluene	*120*			"	*125*		96	*76-121*		

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Richard Fetzer	**US EPA Region 3, Eastern Response Branch**	**SDG:** 12067A
Project Number: R33911	**100 Gypsum Road**	**Reported:** 03/19/12 09:37
Project: Dimock Residential Groundwater	**Stroudsburg PA, 18360**	

Qualifiers and Comments

F12 Single component, unidentified

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

ICF International / Laboratory Data Consultants
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone: (510) 412-2300 Fax: (510) 412-2304

DATE: March 16, 2012

TO: Richard Bauer, Chemistry TOM, EPA Region 9, Laboratory Section, MTS-2

FROM: Ziyad Rajabi, Organic Group Leader

SUBJECT: Analytical Results for TDF 01001084

As assigned under EPA Contract No. EP-W-06-041, TDF 01001084, ESAT completed analysis of 13 water samples for the Dimock Residential Groundwater Site project, Case R33911, SDG 12067A, Work Orders 1203018, 1203020, and 1203024 for purgeable TPH following EPA Region 9 Laboratory SOP 380 based on method SW5030B, SW5035, and SW8015C. The draft analytical report and raw data package are attached.

If you have any questions regarding this information please contact me at extension 22390.

G:\USER\ESAT\# LAB DATA Deliverables\R33911\12067A-TPH-gas-14631.docx

EPA Region 9 Laboratory

DATA PACKAGE

Analysis:	**TPH-gas**
Project Number:	**R33911**
SDG Number:	**12067A**
Work Order:	**1203018, 1203020, and 1203024**
ESAT DCN:	**14631**

Contents

- **Review Forms**
- **Tracking Forms**
- ***Sample Preparation***
- **Data**
  -Initial Calibration Data
  -Sample Data
- ***Miscellaneous Data***
- **Standard Records**
- ***Canister Certification Data***

Sections in italics are included as applicable

G:\USER\ESAT\# LAB DATA Deliverables\R33911\12067A-TPH-gas-14631.docx

REVIEW FORMS

General Project Management and ESAT Contractor Oversight Review

Project Number: R33911 SDG: 12067A

Analysis: purgeable TPH Number of Pages: 218

Reviewer: Bauer

- ☑ Review project notes and requirements (including TDF) and verify that correct analytical procedures and any special instructions were followed. Note any significant deviations or omissions in report narrative or return to contractor for correction.
- ☑ Review project memo field for each work order and include information pertinent to data users in report narrative. (Information important only to chemist reviewing the raw data package should be included in data package, but not in the report narrative).
- ☑ Review chain of custody documentation and verify that information in report corresponds correctly. Verify that any sample shipping or handling issues are properly documented and reported.
- ☑ Review analytical report and QC report and verify that qualifier flags for holding times, sample handling, surrogates, blanks, blank spikes, matrix QC, and calibration range have been appropriately applied.
- ☑ Review LIMS Data Entry table for unaddressed outliers.
- ☑ Verify that all major sections of data package are present.

Comments:

Temperature comment added.

Reviewer Signature [signature] Date 3/19/12

G:\USER\ESAT\# LAB DATA Deliverables\R33911\12067A-TPH-gas-14631.docx

: 00003

ESAT Region 9 | **ICF International**
Case: R33911 | **Analysis:** TPH-gas | **TDF:** 01001084 | **Matrix:** water
DCN: 14631 | **Site:** Dimock Residential Groundwater Site | **SDG:** 12067A

ESAT REGION 9 DATA PACKAGE TECHNICAL REVIEW GUIDE

Reviewer:	Package Prep (P): YAB	Technical (T):	Final (F):
	Date: 03.16.12	Date: 3/16/12	Date: 3/16/12

P T F N/A (indicates that the item is present and reviewed for accuracy and completeness)

Report Section

- ✓ ✓ ✓ ESAT Cover Memo (original)
- ✓ ✓ ✓ TDF included and requirements met (e.g. project analytes, project QLs, special procedures)
- ✓ ✓ ✓ Draft LIMS Report

Data Package Cover

- ✓ ✓ ✓ Case, SDG, Work Order(s), TDF#-DCN [First numbered page in the data package]

Review Forms

- ✓ ✓ ✓ EPA Review Form and Technical Review Guide included and complete.
- ✓ ✓ ✓ ¤ LIMS memo field; include as applicable.
- ¤ ¤ ¤ ✓ Discrepancy form(s) include as applicable
- ✓ ✓ ✓ ¤ Daily folder review forms are complete and reviewed; QC outliers noted
- ✓ ✓ ✓ ¤ Analysis matrix listing all analytical runs is included, as applicable

Tracking Forms

- ✓ ✓ ✓ Work Orders and Chains of Custody forms included and reviewed.
- ✓ ✓ ✓ Preparation and analyses performed within holding times. Qualify and/or explain deviations in memo field
- ✓ ✓ ✓ ¤ Cooler temperatures recorded on COC are within specification. Qualify and/or explain deviations in memo field noted

Sample Preparation

- ✓ ✓ ✓ ¤ Bench sheets and extraction logs, where applicable
- ¤ ¤ ¤ ✓ Sample cleanup data and records (e.g. GPC logs)
- ¤ ¤ ¤ ✓ Homogenization and Moisture data

Initial Calibration Data

Group ICAL data by instrument and analysis date:

- ✓ ✓ ¤ ¤ All ICALs associated with samples are present, reviewed, and pass SOP criteria. (If failure, discrepancy form must be included)
- ✓ ✓ ¤ ✓ Check for misidentification (e.g. isomers such as dichlorobenzene)

Sample Data

Group data for the following areas in sections by method, instrument, and analysis date.

Continuing Calibrations

- ✓ ✓ ¤ ¤ All CCALs associated with samples are present and meet SOP criteria. If not, discrepancy form included.
- ✓ ✓ ¤ Average RRFs from associated ICAL are correctly transposed to CCAL summary form
- ✓ ✓ ¤ CCAL RRFs and %Ds calculated correctly. Check at least 1 surrogate & 1 target analyte
- ✓ ✓ ¤ Check %Ds and RRFs against SOP criteria

G:\USER\ESAT\# LAB DATA Deliverables\R33911\12067A-TPH-gas-14631.docx

ESAT Region 9 **ICF International**
Case: R33911 **Analysis:** TPH-gas **TDF:** 01001084 **Matrix:** water
DCN: 14631 **Site:** Dimock Residential Groundwater Site **SDG:** 12067A

P T F N/A (indicates that the item is present and reviewed for accuracy and completeness)

Quantitation Limit Standards
✓ ¤ ¤ ¤ Percent recoveries of 60-140% met; outliers noted and flagged

Laboratory Control Samples
✓ ¤ ¤ Percent recoveries met. If not, discrepancy form included unless not required because: _____

Method Blanks
¤ ✓ ✓ Present and no target analyte results > ½ QL; if not, flag data as appropriate

MS/MSD or Duplicate Data
✓ ¤ ✓ ¤ Percent recoveries and RPDs were met; outliers are noted and flagged. Note significant deviations in LIMS memo field

Sample Data
✓ ¤ ✓ ¤ Bench sheet(s) and injection or run logs present for all samples
¤ ¤ ¤ ✓ Internal standards meet SOP criteria
✓ ✓ ✓ ¤ System Monitoring Compound/Surrogate recoveries met; outliers are noted and flagged
✓ ✓ ¤ All non-detects are reported as ND on the quantitation report and explained for QC samples
✓ ¤ ¤ Quantitation results are correctly calculated. Check at least one surrogate or one target analyte
¤ ¤ ✓ Mass spectral data are present for all target analytes
✓ ✓ ¤ ¤ Check for manual integrations (m) identified on quantitation reports. Verify presence of manual integration data, initialed and dated by a supervisor
✓ ✓ ¤ ¤ Compound concentrations exceeding the upper range of the instrument are reported from the dilution run
✓ ✓ ✓ Check for carry-over contamination
¤ ¤ ¤ ✓ Dilutions and reruns appropriate.
¤ ¤ ✓ TICs properly identified; TIC report and data present; proper TIC name used (Organics)
✓ ✓ ✓ ¤ QC outliers are appropriately flagged in LIMS

Miscellaneous Data
✓ ✓ ¤ ¤ Storage blank data present
¤ ¤ ¤ ✓ Other data, as applicable _____

Standards Records
✓ ✓ ✓ ¤ Standards records from LIMS (and logbook pages as needed)

Canister Certification Data (TO 15 only)
¤ ¤ ¤ ✓ Data and supporting QC present

For ESAT Files: ESAT Review form (original) and Cover Memo (copy)

G:\USER\ESAT\# LAB DATA Deliverables\R33911\12067A-TPH-gas-14631.docx

WORK ORDER NOTES - 1203018

1203018 - US EPA Region 3, Eastern Response
Dimock Residential Groundwater

Edit Done

RSK-175: B2C0040-MS1/MSD1: The methane concentration in the unfortified sample [1203018-04] is significantly greater than the concentration spiked into the MS/MSD. The reported spike recovery is not a meaningful measure of the dataset's analytical accuracy. RH 3/12/12

RSK-175: Sample 1203018-04 reported the presence of propane. ZAR 03/12/12

TPH GAS: The closing CV for 2030021 sequence was run on the following day due to autosampler malfunction. YNB 03/16/12

WORK ORDER NOTES - 1203020

1203020 - US EPA Region 3, Eastern Response
Dimock Residential Groundwater

Edit Done

RSK-175: Methane result for samples 120302020-03 & 04 was flagged B since the concentration of this analyte in the sample was less than five time the concentration found in the associated tripand field blanks. RH 3/12/12

TPH GAS: The closing CV for 2030021 sequence was run on the following day due to autosampler malfunction. YNB 03/16/12

WORK ORDER NOTES - 1203024

1203024 - US EPA Region 3, Eastern Response
Dimock Residential Groundwater

Edit Done

Samples received at 8 deg C. No impact on data. Reported unqualified. ZAR 03/12/12

Organics Daily Folder Preparation/Technical Review Guide

Analysis Method	TPH GRO ARCHON	Analyst Initial	JNB	Reviewer Initial	[illegible]	Batch/ Sequence	2010026
Instrument ID	AG6890-7	Date Analyzed	01.20.12	Date	01/25/12	Chemstation Last Update	Mon Jan 23 13:58:52 2012
Cases	Calibration			SDGs	ICAL		

Review each item listed below. As problems are discovered list them in the non-conformance section of the form and provide and explanation in the discussion part of the table.

NA	A	PR	Item Description
	✓	✓	Runlog (Present, legible, peer reviewed)
✓			Tune/ Degradation Standard
	✓	✓	Initial Calibration (SOP criteria for number of levels, concentration, and %RSD). Manual calculation. Include summary for daily review.
✓			Continuing Calibration Verification (frequency, recovery, and %D). Manual calculation.
✓			QLS (level, frequency, and recovery) (include Chemstation summary)
✓			Method / Extraction / Storage Blanks (frequency and contamination levels)
✓			Surrogate Recoveries
✓			IS Areas (SOP criteria met)
	✓	✓	LCS (level, frequency, and recovery) (include Chemstation summary) second source
✓			MS/MSD
✓			Samples (within calibration range, results calculated correctly)
✓			Manual Integration Verified
	✓	✓	Standard Prep Log (all pages present, legible, peer reviewed, legible)
✓			Sample Prep/Extraction (all pages present, legible, peer reviewed)
✓	✓	✓	Others: use Methylpentane, Trimethylbenzene to establish GAS RT window

NA = not applicable A = Analyst check PR = Peer Review Check

Non-conformance Report

QC	File ID	Result	QC Limit	High Bias	Low Bias	Flag ND	Flag Hits	Discussion

G:\USER\ESAT\1 Organic Group\GASbyARCH review.doc

Organics Daily Folder Preparation/Technical Review Guide

Analysis Method	TPH GRO	Analyst Initial	JNB	Reviewer Initial	[illegible]	Batch/ Sequence	B2C0041/2030021
Instrument ID	AG 6890-7	Date Analyzed	03.08.12	Date	3/12/12	Chemstation Last Update	Mon Jan 23 13:58:52 2012
Cases	R33911			SDGs	12067A		

Review each item listed below. As problems are discovered list them in the non-conformance section of the form and provide and explanation in the discussion part of the table.

NA	A	PR	Item Description
	✓	✓	Runlog (Present, legible, peer reviewed)
✓			Tune/ Degradation Standard
✓		✓	Initial Calibration (SOP criteria for number of levels, concentration, and %RSD). Manual calculation. Include summary for daily review.
	✓	✓	Continuing Calibration Verification (frequency, recovery, and %D). Manual calculation.
	✓	✓	QLS (level, frequency, and recovery) (include Chemstation summary)
	✓	✓	Method / Extraction / Storage Blanks (frequency and contamination levels)
	✓	✓	Surrogate Recoveries
✓			IS Areas (SOP criteria met)
	✓	✓	LCS (level, frequency, and recovery) (include Chemstation summary)
	✓	✓	MS/MSD
	✓	✓	Samples (within calibration range, results calculated correctly)
✓			Manual Integration Verified
✓			Standard Prep Log (all pages present, legible, peer reviewed, legible)
✓			Sample Prep/Extraction (all pages present, legible, peer reviewed)
✓	✓	✓	Others closing cal was run on following day due to auto sampler failure

NA = not applicable A = Analyst check PR = Peer Review Check

Non-conformance Report

QC	File ID	Result	QC Limit	High Bias	Low Bias	Flag ND	Flag Hits	Discussion
	ms/msd							>11% need to rerun

G:\USER\ESAT\1 Organic Group\dailyBTEXM review.doc

Organics Daily Folder Preparation/Technical Review Guide

Analysis Method	TPH GRO	Analyst Initial	YNB	Reviewer Initial	ZK	Batch/ Sequence	B2C0041,B2C0060/ 2030030
Instrument ID	AG 6890-7	Date Analyzed	03.13.12	Date	3/15/12	Chemstation Last Update	Mon Jan 23 13:58:52 2012
Cases	R33911			SDGs	12067A		

Review each item listed below. As problems are discovered list them in the non-conformance section of the form and provide and explanation in the discussion part of the table.

NA	A	PR	Item Description
	✓	✓	Runlog (Present, legible, peer reviewed)
✓			Tune/ Degradation Standard
	✓	✓	Initial Calibration (SOP criteria for number of levels, concentration, and %RSD). Manual calculation. Include summary for daily review.
	✓	✓	Continuing Calibration Verification (frequency, recovery, and %D). Manual calculation.
	✓	✓	QLS (level, frequency, and recovery) (include Chemstation summary)
	✓	✓	Method / Extraction / Storage Blanks (frequency and contamination levels)
	✓	✓	Surrogate Recoveries
✓	✓	✗	~~IS~~ Areas (SOP criteria met) YNB 03.14.12
	✓	✓	LCS (level, frequency, and recovery) (include Chemstation summary)
	✓	✓	MS/MSD
	✓	✓	Samples (within calibration range, results calculated correctly)
✓			Manual Integration Verified
✓			Standard Prep Log (all pages present, legible, peer reviewed, legible)
✓			Sample Prep/Extraction (all pages present, legible, peer reviewed)
✓			Others

NA = not applicable A = Analyst check PR = Peer Review Check

Non-conformance Report

QC	File ID	Result	QC Limit	High Bias	Low Bias	Flag ND	Flag Hits	Discussion

G:\USER\ESAT\1 Organic Group\dailyBTEXM review.doc

USEPA Region 9 Laboratory
Organic Analysis Summary

Case: R33911
SDG: 12067A
Analysis: TPH GRO

YNB

Sample ID	Sample Runs		
Instrument	AG6890-7	AG6890-7	INSTRUMENT
Analysis Date	3/8/2012	3/13/2012	
Sequence	2030021	2030030	
1203018-01	RPT		
1203018-02	RPT		
1203018-03	RPT		
1203018-04	RPT		
B2C0041-MS1	NU		
B2C0041-MSD1	NU		
B2C0041-MS2		RPT	
B2C0041-MSD2		RPT	
1203018-05	RPT		
1203020-01	RPT		
1203020-02	RPT		
1203020-03	RPT		
1203020-04	RPT		
1203020-05	RPT		
1203024-01		RPT	
1203024-02		RPT	
1203024-03		RPT	
	RPT B2C0041-BLK1	RPT B2C0060-BLK1	
	RPT B2C0041-BS1	RPT B2C0060-BS1	

Definitions

RPT	Report
NU	Not Used
OC	Over calibration
OTT	Out of tune time
nX	Dilution, where n is dilution factor

SAMPLE TRACKING FORMS

WORK ORDER

Printed: 3/7/2012 1:16:58PM

1203018

EPA Region 9 Laboratory

Client: US EPA Region 3, Eastern Response Branch
Project: Dimock Residential Groundwater
Project Number: R33911

Report To:
US EPA Region 3, Eastern Response Branch
Richard Fetzer
100 Gypsum Road
Stroudsburg, PA 18360
Phone: (215) 341-6307
Fax: XX

Project Contact
US EPA Region 3, Eastern Response Branch
Richard Fetzer
100 Gypsum Road
Stroudsburg, PA 18360
Phone :(215) 341-6307
Fax: XX

Shipping Containers	Description	Temp C	Custody Seals?	Containers Intact?	Labels COC Agree?	Preservation Confirmed?	Received on Ice?	Comments
1Cooler		3	Yes	Yes	Yes	Yes	Yes	
2Cooler		4	Yes	Yes	Yes	Yes	Yes	

Date Due:	03/28/12 15:00 (21 day TAT)	SDG:	12067A
Received By:	Chris Cagurangan	Date Received:	03/07/12 10:00
Logged In By:	Chris Cagurangan	Date Logged In:	03/07/12 10:28

Analysis	Hold Time Expires	Comments
1203018-01 FB19 [Water] Sampled 03/05/12 09:36 Pacific		
TPH - Purgeable	03/19/12	
Dissolved HC Gases	03/19/12	5 day prelim results
1203018-02 HW60 [Water] Sampled 03/05/12 12:25 Pacific		
TPH - Purgeable	03/19/12	
Dissolved HC Gases	03/19/12	5 day prelim results
1203018-03 TB49 [Water] Sampled 03/05/12 07:15 Pacific		
TPH - Purgeable	03/19/12	
Dissolved HC Gases	03/19/12	5 day prelim results
1203018-04 HW56 [Water] Sampled 03/05/12 16:54 Pacific		**LAB QC**
TPH - Purgeable	03/19/12	
Dissolved HC Gases	03/19/12	5 day prelim results
1203018-05 TB50 [Water] Sampled 03/05/12 10:00 Pacific		
TPH - Purgeable	03/19/12	
Dissolved HC Gases	03/19/12	5 day prelim results

Reviewed By

Date

USEPA CLP Generic COC (LAB COPY)

DateShipped: 3/5/2012
CarrierName: FedEx
AirbillNo: 7933 0175 8109

CHAIN OF CUSTODY RECORD

Case # CT5865

No: 3-030512-152213-0243

Lab: EPA R9 Laboratory
Lab Contact
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB19	Aqueous/ Joel Munson	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	19035 (HCl / 40mlGlassVial), 19036 (HCl / 40mlGlassVial), 19054 (HCl / 40mlGlassVial), 19055 (HCl / 40mlGlassVial) (4)	FB19	03/05/2012 09:36	
HW60	Drinking Water/ Mike Ferrer	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	19068 (HCl / 40mlGlassVial), 19069 (HCl / 40mlGlassVial), 19087 (HCl / 40mlGlassVial), 19088 (HCl / 40mlGlassVial) (4)	HW60	03/05/2012 12:25	
TB49	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	19060 (HCl / 40mlGlassVial), 19061 (HCl / 40mlGlassVial), 19062 (HCl / 40mlGlassVial), 19063 (HCl / 40mlGlassVial) (4)	TB49	03/05/2012 07:15	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth.Ethe.Etha, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
12	[signature]	3/5/12									
			[signature]	3/07/12	(00)						

3°C — cooler intact [signature] 03/07/12

00015A

USEPA CLP Generic COC (LAB COPY)

DateShipped: 3/6/2012
CarrierName: FedEx
AirbillNo: 7981 3494 1644

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-030612-091805-0248

Lab: EPA R9 Laboratory
Lab Contact
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
HW56	Drinking Water/ Mike Ferrier	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7), RSK-175(7), RSK-175(7), RSK-175(7), RSK-175(7), GRO(7), GRO(7), GRO(7), GRO(7)	19102 (HCl / 40mlGlassVial), 19103 (HCl / 40mlGlassVial), 19121 (HCl / 40mlGlassVial), 19122 (HCl / 40mlGlassVial), 19130 (HCl / 40mlGlassVial), 19131 (HCl / 40mlGlassVial), 19132 (HCl / 40mlGlassVial), 19133 (HCl / 40mlGlassVial), 19134 (HCl / 40mlGlassVial), 19135 (HCl / 40mlGlassVial), 19136 (HCl / 40mlGlassVial), 19137 (HCl / 40mlGlassVial) (12)	HW56	03/05/2012 16:54	
TB50	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	19094 (HCl / 40mlGlassVial), 19095 (HCl / 40mlGlassVial), 19096 (HCl / 40mlGlassVial), 19097 (HCl / 40mlGlassVial) (4)	TB50	03/05/2012 10:00	

Sample(s) to be used for Lab QC: HW56

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
16	[illegible]	3/6/12									
			[illegible]	03/07/12	1203						

custody seals intact at 03/07/12

00158

WORK ORDER

Printed: 3/8/2012 11:08:13AM

1203020

EPA Region 9 Laboratory

Client: US EPA Region 3, Eastern Response Branch
Project: Dimock Residential Groundwater
Project Number: R33911

Report To:
US EPA Region 3, Eastern Response Branch
Richard Fetzer
100 Gypsum Road
Stroudsburg, PA 18360
Phone: (215) 341-6307
Fax: XX

Project Contact
US EPA Region 3, Eastern Response Branch
Richard Fetzer
100 Gypsum Road
Stroudsburg, PA 18360
Phone :(215) 341-6307
Fax: XX

Shipping Containers	Description	Temp C	Custody Seals?	Containers Intact?	Labels COC Agree?	Preservation Confirmed?	Received on Ice?	Comments
1Cooler		3	Yes	Yes	Yes	Yes	Yes	

Date Due:	03/29/12 15:00 (21 day TAT)	SDG:	12067A
Received By:	Jack Berges	Date Received:	03/08/12 09:50
Logged In By:	Jack Berges	Date Logged In:	03/08/12 10:42

Analysis	Hold Time Expires	Comments
1203020-01 FB20 [Water] Sampled 03/06/12 14:00 Pacific		
TPH - Purgeable	03/20/12	
Dissolved HC Gases	03/20/12	5 day prelim results
1203020-02 HW61 [Water] Sampled 03/06/12 15:42 Pacific		
TPH - Purgeable	03/20/12	
Dissolved HC Gases	03/20/12	5 day prelim results
1203020-03 HW61-P [Water] Sampled 03/06/12 16:00 Pacific		
TPH - Purgeable	03/20/12	
Dissolved HC Gases	03/20/12	5 day prelim results
1203020-04 HW61z [Water] Sampled 03/06/12 15:42 Pacific		
TPH - Purgeable	03/20/12	
Dissolved HC Gases	03/20/12	5 day prelim results
1203020-05 TB51 [Water] Sampled 03/06/12 07:05 Pacific		
TPH - Purgeable	03/20/12	
Dissolved HC Gases	03/20/12	5 day prelim results

Reviewed By

Date

00015

USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/7/2012
CarrierName: FedEx
AirbillNo: 7933 1035 7507

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-030712-113036-0254
Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB20	Aqueous/ Joel Munson	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	19225 (HCl / 40mlGlassVial), 19226 (HCl / 40mlGlassVial), 19244 (HCl / 40mlGlassVial), 19245 (HCl / 40mlGlassVial) (4)	FB20	03/06/2012 14:00	
HW61	Drinking Water/ Mike Ferrier	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	19155 (HCl / 40mlGlassVial), 19156 (HCl / 40mlGlassVial), 19174 (HCl / 40mlGlassVial), 19175 (HCl / 40mlGlassVial) (4)	HW61	03/06/2012 15:42	
HW61-P	Drinking Water/ Brian Burris	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	19207 (HCl / 40mlGlassVial), 19208 (HCl / 40mlGlassVial), 19218 (HCl / 40mlGlassVial), 19219 (HCl / 40mlGlassVial) (4)	HW61-P	03/06/2012 16:00	
HW61z	Drinking Water/ Mike Ferrier	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	19181 (HCl / 40mlGlassVial), 19182 (HCl / 40mlGlassVial), 19200 (HCl / 40mlGlassVial), 19201 (HCl / 40mlGlassVial) (4)	HW61	03/06/2012 15:42	

Special Instructions: COOLER @ 3°C, SEALS INTACT, ON ICE BDB 3/8/12

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
16	[signature]	3/7/12	[signature] SEALAB	3/8/12	9:50						

00016

USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/7/2012
CarrierName: FedEx
AirbillNo: 7933 1035 7507

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-030712-113036-0254
Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
TB51	Aqueous/ Kim Whitlock	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	19147 (HCl / 40mlGlassVial), 19148 (HCl / 40mlGlassVial), 19149 (HCl / 40mlGlassVial), 19150 (HCl / 40mlGlassVial) (4)	TB51	03/06/2012 07:15	
					NO SAMPLE CONTAINER 19150 REC'D @ LAB		LAB 3/8/12

Special Instructions: COOLER @ 3°C, SEALS INTACT, ON ICE

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4	[signature]	3/7/12	[signature]	3/8/12	950						

000017

WORK ORDER

Printed: 3/9/2012 10:38:55AM

1203024

EPA Region 9 Laboratory

Client: US EPA Region 3, Eastern Response Branch **Project Number:** R33911
Project: Dimock Residential Groundwater

Report To:
US EPA Region 3, Eastern Response Branch
Richard Fetzer
100 Gypsum Road
Stroudsburg, PA 18360
Phone: (215) 341-6307
Fax: XX

Project Contact
US EPA Region 3, Eastern Response Branch
Richard Fetzer
100 Gypsum Road
Stroudsburg, PA 18360
Phone :(215) 341-6307
Fax: XX

Shipping Containers	Description	Temp C	Custody Seals?	Containers Intact?	Labels COC Agree?	Preservation Confirmed?	Received on Ice?	Comments
Default Cooler	Default Cooler	8	Yes	Yes	Yes	No	Yes	

Date Due:	03/30/12 15:00 (21 day TAT)	SDG:	12067A
Received By:	Garrett Peterson	Date Received:	03/09/12 10:15
Logged In By:	Garrett Peterson	Date Logged In:	03/09/12 10:25

Analysis	Hold Time Expires	Comments
1203024-01 FB21 [Water] Sampled 03/08/12 13:38 Pacific		
Dissolved HC Gases	03/22/12	5 day prelim results
TPH - Purgeable	03/22/12	
1203024-02 HW50 [Water] Sampled 03/08/12 15:09 Pacific		
Dissolved HC Gases	03/22/12	5 day prelim results
TPH - Purgeable	03/22/12	
1203024-03 TB52 [Water] Sampled 03/08/12 10:35 Pacific		
Dissolved HC Gases	03/22/12	5 day prelim results
TPH - Purgeable	03/22/12	

Reviewed By

Date

USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/8/2012
CarrierName: FedEx
AirbillNo: 7933 1794 4460

CHAIN OF CUSTODY RECORD

Case #: CT5865

No: 3-030812-162436-0257
Lab: EPA R9 Laboratory
Lab Contact:
Lab Phone: 510.412.2389

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB21	Aqueous/ Joel Munson	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	18940 (HCl / 40mlGlassVial), 18941 (HCl / 40mlGlassVial), 18962 (HCl / 40mlGlassVial), 18963 (HCl / 40mlGlassVial) (4)	FB21	03/08/2012 13:38	
HW50	Drinking Water/ Mike Ferrier	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	18980 (HCl / 40mlGlassVial), 18981 (HCl / 40mlGlassVial), 19001 (HCl / 40mlGlassVial), 19002 (HCl / 40mlGlassVial) (4)	HW50	03/08/2012 15:09	
TB52	Aqueous/ David Iacovone	Grab	RSK-175(7), RSK-175(7), GRO(7), GRO(7)	18970 (HCl / 40mlGlassVial), 18971 (HCl / 40mlGlassVial), 18972 (HCl / 40mlGlassVial), 18973 (HCl / 40mlGlassVial) (4)	TB52	03/08/2012 10:35	

Special Instructions: Rec'd @ 8°C, Custody Seals intact

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: RSK-175=11-Dissolved Gases_Meth,Ethe,Etha, GRO=11-Gasoline Range Organics

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
12	[signature]	3/8/12									
									[signature]	3/9/12	1015

00019

SAMPLE PREPARATION

PREPARATION BENCH SHEET

B2C0041

EPA Region 9 Laboratory

rinted: 3/12/2012 9:47:39AM

Project: R33911 - Dimock Residential Groundwater

Matrix: Water **Analysis: TPH - Purgeable** **Prepared using: Extractables - 5030 P&T TPH-G** **Surrogate used: 1J17002**

Lab Number	SampleName	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Prepared By	pH	Extraction Comments
1203018-01 C	FB19	03/08/12 09:34	5	5				1	YNB	<2	
1203018-02 C	HW60	03/08/12 09:34	5	5				1	YNB		
1203018-03 C	TB49	03/08/12 09:34	5	5				1	YNB		
1203018-04 I	HW56	03/08/12 09:34	5	5				1	YNB		
1203018-05 C	TB50	03/08/12 09:34	5	5				1	YNB		
1203020-01 C	FB20	03/08/12 09:34	5	5				1	YNB		
1203020-02 C	HW61	03/08/12 09:34	5	5				1	YNB		
1203020-03 C	HW61-P	03/08/12 09:34	5	5				1	YNB		
1203020-04 C	HW61z	03/08/12 09:34	5	5				1	YNB		
1203020-05 A	TB51	03/08/12 09:34	5	5				1	YNB		
B2C0041-BLK1	Blank	03/08/12 09:34	5	5				1	YNB	—	
B2C0041-BS1	LCS	03/08/12 09:34	5	5	1J17001		2.5	1	YNB	—	
B2C0041-MS1	Matrix Spike	03/08/12 09:34	5	5	1J17001	1203018-04	2.5	1	YNB	<2	
B2C0041-MS2	Matrix Spike	03/13/12 06:34	5	5	1J17001	1203018-04	2.5	1	YNB	<2	
B2C0041-MSD1	Matrix Spike Dup	03/08/12 09:34	5	5	1J17001	1203018-04	2.5	1	YNB	<2	
B2C0041-MSD2	Matrix Spike Dup	03/13/12 06:34	5	5	1J17001	1203018-04	2.5	1	YNB	<2	

AG6890-7

Reagents

Reagent #	Description

000021

Preparation Reviewed By — Date 3/14/12

PREPARATION BENCH SHEET

B2C0060

EPA Region 9 Laboratory

rinted: 3/13/2012 8:14:06AM

Project: R33911 - Dimock Residential Groundwater

Matrix: Water **Analysis:TPH - Purgeable** **Prepared using: Extractables - 5030 P&T TPH-G** **Surrogate used: 1J17002**

Lab Number	SampleName	Prepared	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Prepared By	pH	Extraction Comments
1203024-01 A	FB21	03/13/12 08:12	5	5				1	YNB	<2	
1203024-02 A	HW50	03/13/12 08:12	5	5				1	YNB	↓	
1203024-03 A	TB52	03/13/12 08:12	5	5				1	YNB	↓	
B2C0060-BLK1	Blank	03/13/12 08:12	5	5				1	YNB	—	
B2C0060-BS1	LCS	03/13/12 08:12	5	5	1J17001		2.5	1	YNB	—	

AG6890-7

Reagents

Reagent #	Description

000022

3/14/12

Preparation Reviewed By Date

Instrument: A6890-7

Analysis Date: 01.20.12

INITIAL CALIBRATION DATA

G:\USER\ESAT\1 Organic Group\Forms\DataPackageSeparators.doc

Compound List Report AG6890-7

Method Path : C:\MSDCHEM\1\2012\METHOD\
Method File : 012012GS.M
Title : GC TPH Method
Last Update : Mon Jan 23 13:58:52 2012
Response Via : Initial Calibration

Total Cpnds : 2

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	HRM	Gasoline (TPH) #1	12.75	1.000	A	A	R
2	S	TFT #1	10.95	1.000	A	A	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

012012GS.M Tue Jan 24 08:34:57 2012

Injection Log

Directory: i:\Data\ROOM400\AG6890-7\2012\DATA\012012ARCH

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	012012G001.D	1.	2010026-IBL1	1J17002 IB WATER	1/20/202020 01:35:2
2	2	012012G002.D	1.	2010026-IBL2	1J17002 IB WATER	1/20/202020 02:08:4
3	3	012012G003.D	1.	2010026-RT1	RET TIME 2A10002,WATER	1/20/202020 02:42:2
4	4	012012G004.D	1.	2010026-IBL3	BLANK, 1J17002,WATER	1/20/202020 03:15:5
5	5	012012G005.D	1.	2010026-IBL4	BLANK, 1J17002,WATER	1/20/202020 03:49:2
6	6	012012G006.D	1.	2010026-CAL1	50ug/L, 1J17001,WATER	1/20/202020 04:22:5
7	7	012012G007.D	1.	2010026-CAL2	100ug/L, 1J17001,WATER	1/20/202020 04:56:2
8	8	012012G008.D	1.	2010026-CAL3	500ug/L, 1J17001,WATER	1/20/202020 05:29:5
9	9	012012G009.D	1.	2010026-CAL4	1000ug/L, 1J17001,WATER	1/20/202020 06:03:3
10	10	012012G010.D	1.	2010026-CAL5	2000ug/L, 1J17001,WATER	1/20/202020 06:37:0
11	11	012012G011.D	1.	BLANK	BLANK,WATER	1/20/202020 07:10:2
12	12	012012G012.D	1.	2010026-SCV1	500ug/L 2A10001,WATER	1/20/202020 07:43:3
13	13	012012G013.D	1.	2010026-ICB1	NAPHTHA,2A10005,WATER	1/20/202020 08:16:4
14	14	012012G014.D	1.	2010026-ICB2	TURPENTINE,2A10006,WATER	1/20/202020 08:49:5
15	15	012012G015.D	1.	2010026-ICB3	MIN.SPIRITS,2A10007,WATER	1/20/202020 09:22:5
16	16	012012G016.D	1.	2010026-ICB4	Lacguer,2A10009,WATER	1/20/202020 09:55:5
17	17	012012G017.D	1.	2010026-ICB5	STODDARD,2A10011,WATER	1/20/202021 10:28:5
18	18	012012G018.D	1.	2010026-ICB6	DIESEL,2A10012,WATER	1/20/202021 11:01:5
19	19	012012G019.D	1.	BLANK	BLANK,WATER	1/20/202021 11:34:5
20	20	012012G020.D	1.	BLANK	BLANK,WATER	1/21/202021 12:07:5

GC QA-QC Check Report

Daily Calibration File : C:\MSDCHEM\1\2012\DATA\012012ARCH\012012G008.D
Time Acquired : 20 Jan 2012 17:29

File	Sample	Surrogate Recovery %	Internal Standard Responses
012012G003.D	2010026-RT	98	
012012G006.D	2010026-CAL1	97	
012012G007.D	2010026-CAL2	99	
012012G008.D	2010026-CAL3	99	
012012G009.D	2010026-CAL4	101	
012012G010.D	2010026-CAL5	104	
012012G012.D	2010026-SCV1	99	
012012G013.D	2010026-ICB1	98	
012012G014.D	2010026-ICB2	97	
012012G015.D	2010026-ICB3	96	
012012G016.D	2010026-ICB4	99	
012012G017.D	2010026-ICB5	98	
012012G018.D	2010026-ICB6	98	

(fails) - fails 12hr time check * - fails criteria

Created: Tue Jan 24 08:50:34 2012 AG6890-7

Response Factor Report AG6890-7

Method Path : C:\MSDCHEM\1\2012\METHOD\
Method File : 012012GS.M
Title : GC TPH Method
Last Update : Mon Jan 23 13:58:52 2012
Response Via : Initial Calibration

Calibration Files
G50 =012012G006.D G100 =012012G007.D G500 =012012G008.D
G1K =012012G009.D G2K =012012G010.D

	Compound	G50	G100	G500	G1K	G2K	Avg		%RSD
1)	HRM Gasoline (TPH) #1	7.572	6.960	6.804	6.756	6.741	6.967	E5	5.02
2)	S TFT #1	7.627	7.796	7.772	7.879	8.113	7.838	E5	2.28

(#) = Out of Range

<20%
YMB
01 24 12

Compound #1: Gasoline (TPH) #1 (Page 3)

Lvl ID	Conc	Response	Lvl ID	Conc	Response
G50	50.000000	37862081.708			
G100	100.000000	69604180.206			
G500	500.000000	340180872.032			
G1K	1000.000000	675574938.261			
G2K	2000.000000	1348177708.539			

Area Correction Mass: 0.00 Correction Factor: 0.0000

	Sum?	Integration Parameter File	
Tgt		events.e	Browse...
Q1	☐	events.e	Browse...
Q2	☐	events.e	Browse...
Q3	☐	events.e	Browse...

Prev | Next | Plot | Page 1 | Page 2 | OK | Cancel | Help

Compound #2: TFT #1 (Page 3)

LvlID	Conc	Response	LvlID	Conc	Response
G50	125.000000	95337944.769			
G100	125.000000	97454079.186			
G500	125.000000	97153690.755			
G1K	125.000000	98491718.803			
G2K	125.000000	101418281.398			

Area Correction Mass: 0.00

Correction Factor: 0.0000

	Sum?	Integration Parameter File	
Tot			Browse...
Q1	☐		Browse...
Q2	☐		Browse...
Q3	☐		Browse...

Prev | Next | Plot | Page 1 | Page 2 | OK | Cancel | Help

: 00029

DIM0279790

DIM0279827

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G001.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 13:35 Operator: YNB
Sample : 2010026-IBL1 Inst : AG6890-7
Misc : 1J17002 IB WATER Multiplr: 1.00
ALS Vial : 1 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:45:45 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	93213899	118.930 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	95.14%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	4059999	5.828 ug/L

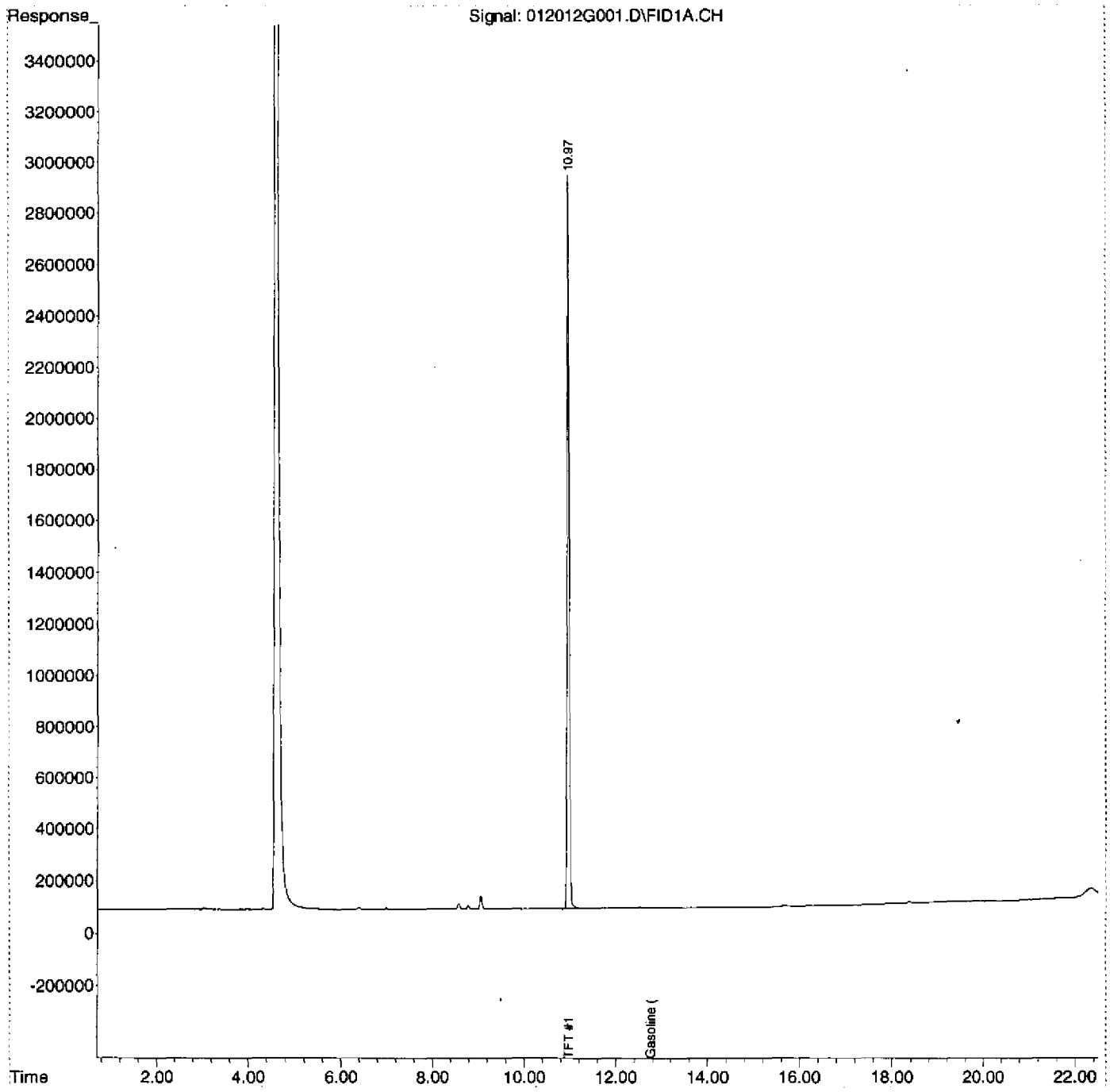
(f)=RT Delta > 1/2 Window (m)=manual int.

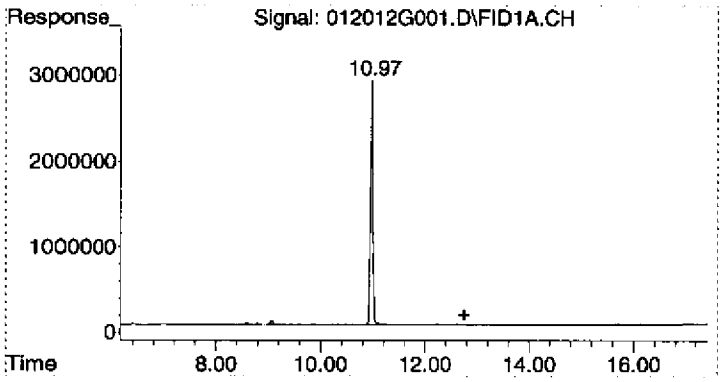
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G001.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 13:35 Operator: YNB
Sample : 2010026-IBL1 Inst : AG6890-7
Misc : 1J17002 IB WATER Multiplr: 1.00
ALS Vial : 1 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:45:45 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 4059999
Conc: 5.83 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G002.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 14:08 Operator: YNB
Sample : 2010026-IBL2 Inst : AG6890-7
Misc : 1J17002 IB WATER Multiplr: 1.00
ALS Vial : 2 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:45:51 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	95784036	122.210 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	97.77%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	1022174	1.467 ug/L

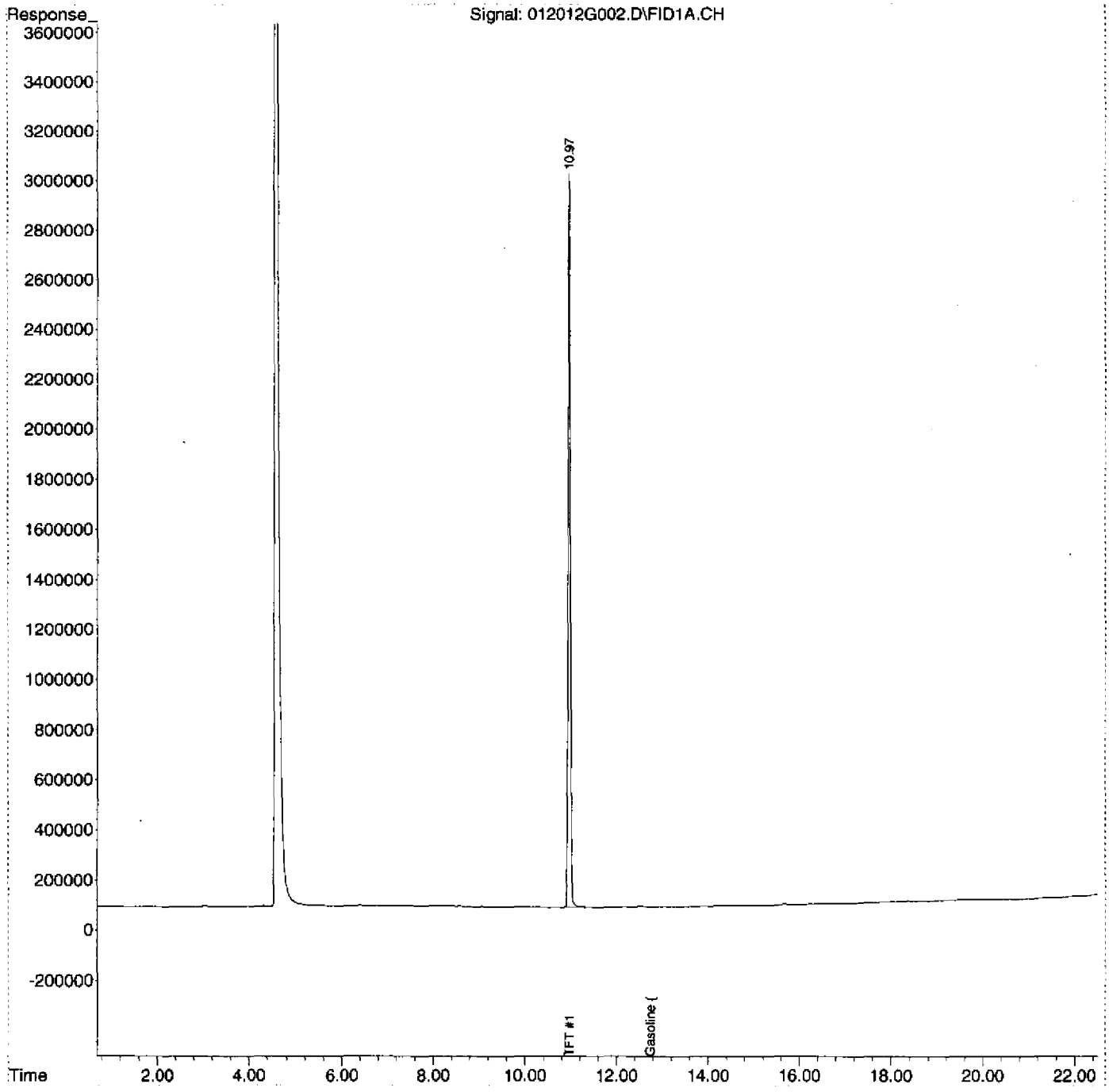
(f)=RT Delta > 1/2 Window (m)=manual int.

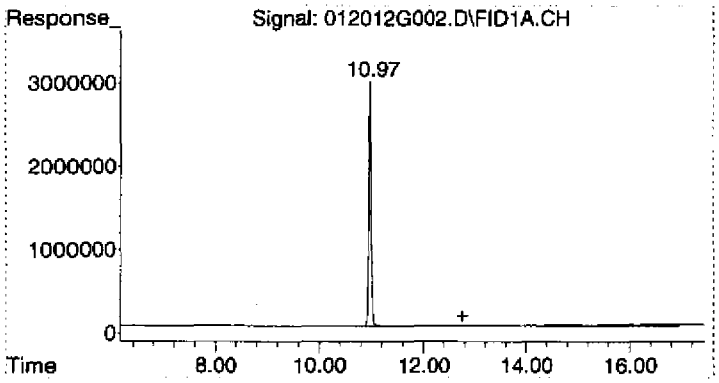
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G002.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 14:08 Operator: YNB
Sample : 2010026-IBL2 Inst : AG6890-7
Misc : 1J17002 IB WATER Multiplr: 1.00
ALS Vial : 2 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:45:51 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 1022174
Conc: 1.47 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G003.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 14:42 Operator: YNB
Sample : 2010026-RT1 Inst : AG6890-7
Misc : RET TIME 2A10002,WATER Multiplr: 1.00
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:45:57 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	96153650	122.681 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	98.14%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	1123216171	1612.283 ug/L

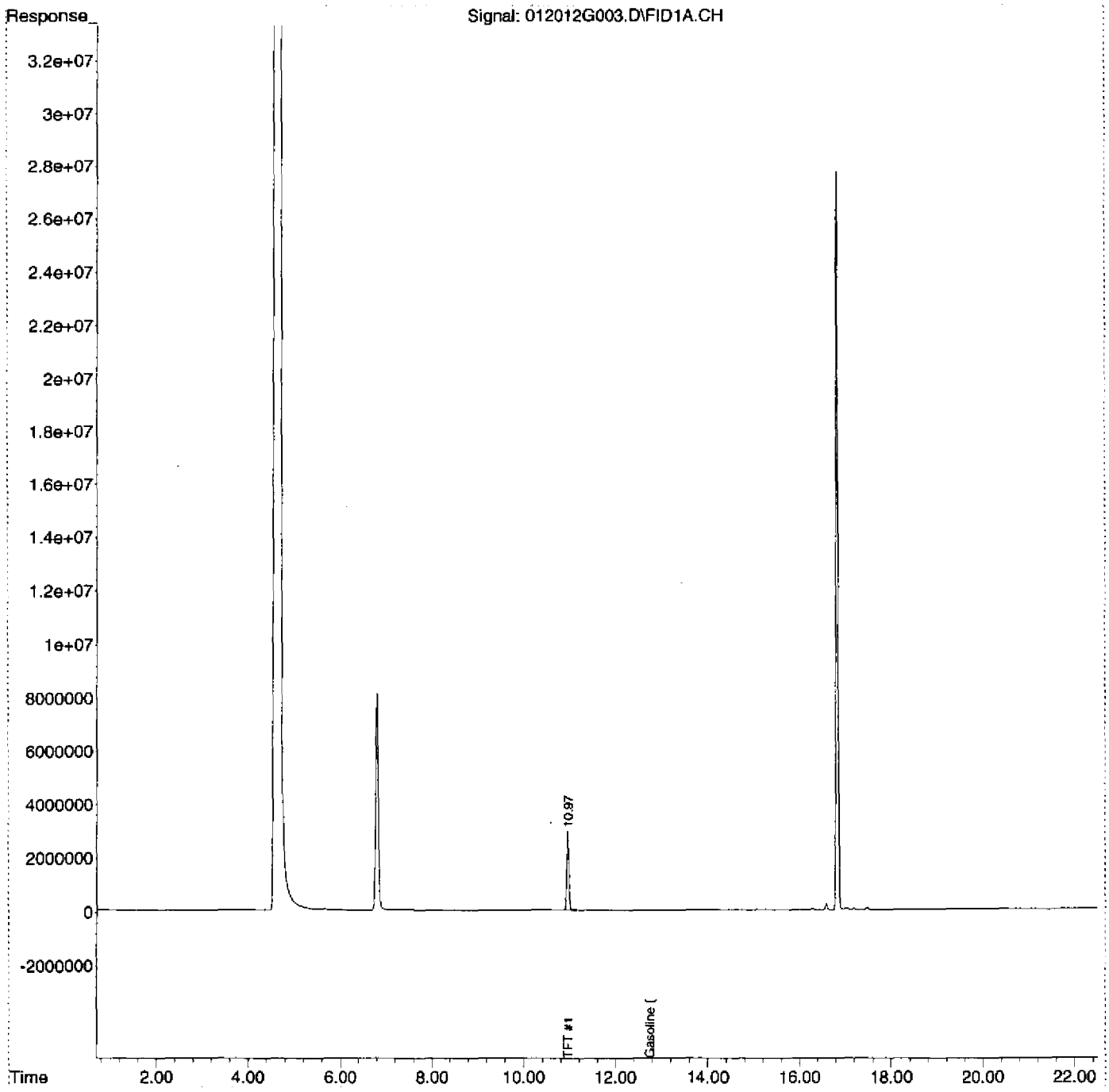
(f)=RT Delta > 1/2 Window (m)=manual int.

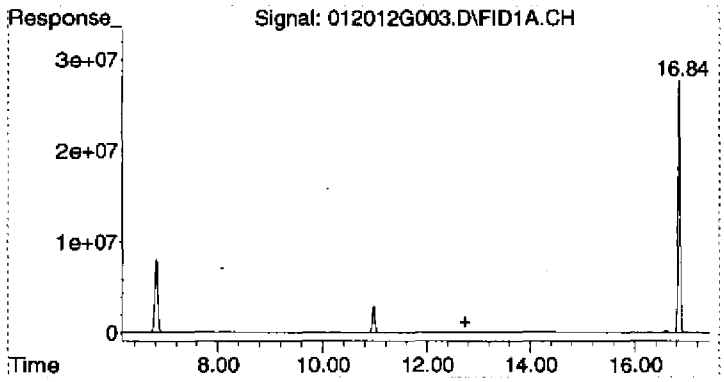
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G003.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 14:42 Operator: YNB
Sample : 2010026-RT1 Inst : AG6890-7
Misc : RET TIME 2A10002,WATER Multiplr: 1.00
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:45:57 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

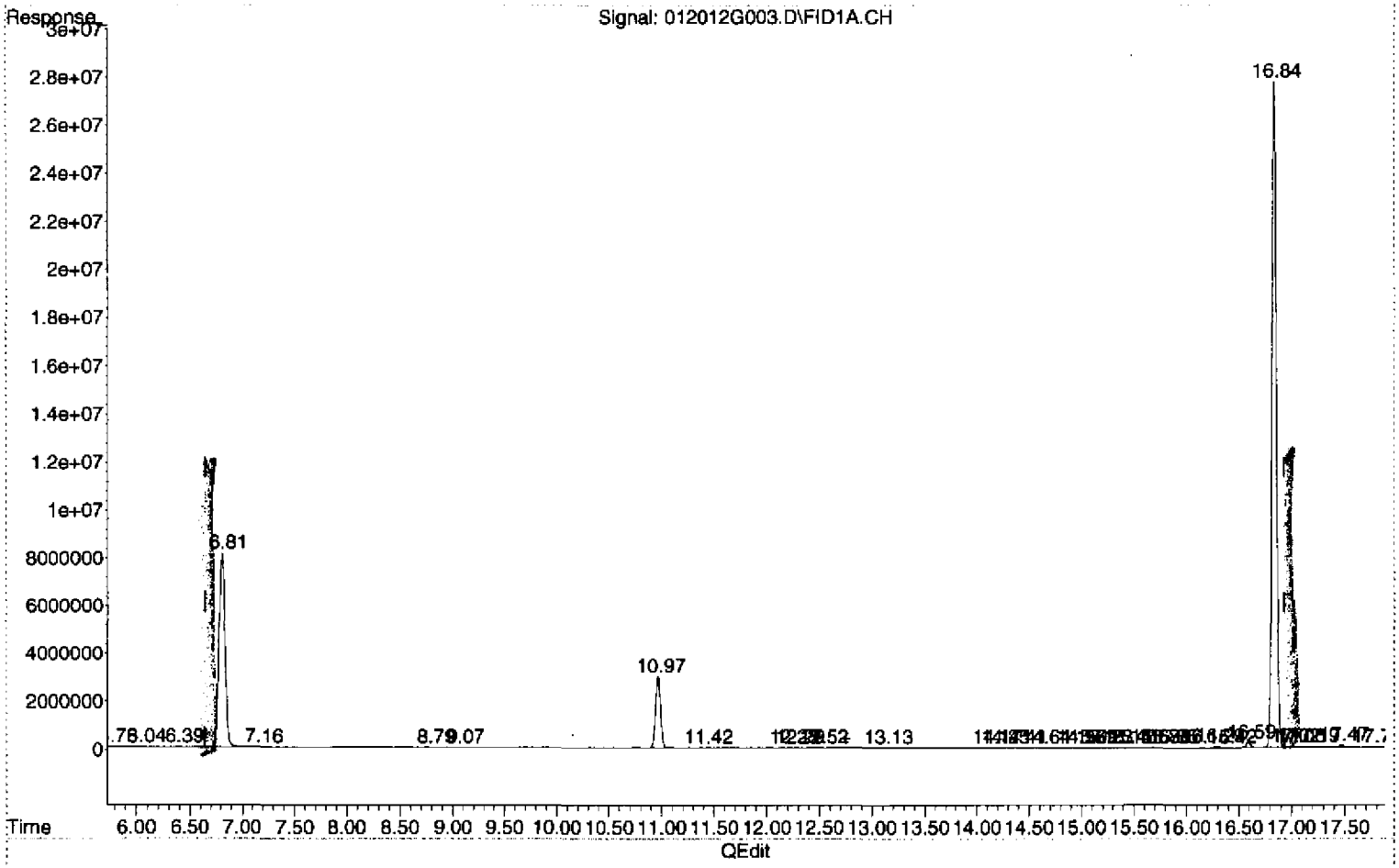
R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 1123216171
Conc: 1612.28 ug/L m

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G003.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 14:42 Operator: YNB
Sample : 2010026-RT1 Inst : AG6890-7
Misc : RET TIME 2A10002,WATER Multiplr: 1.00
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 07:05:36 2012
Quant Method : C:\MSDCHEM\1\2010\METHODS\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID



(1) Gasoline (TPH) #1 (HRM)

12.75min 1612.283ug/L m

response 1123216171

(+) = Expected Retention Time

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G004.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 15:15 Operator: YNB
Sample : 2010026-IBL3 Inst : AG6890-7
Misc : BLANK, 1J17002,WATER Multiplr: 1.00
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:02 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	95243525	121.520 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	97.22%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	7742219	11.113 ug/L

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

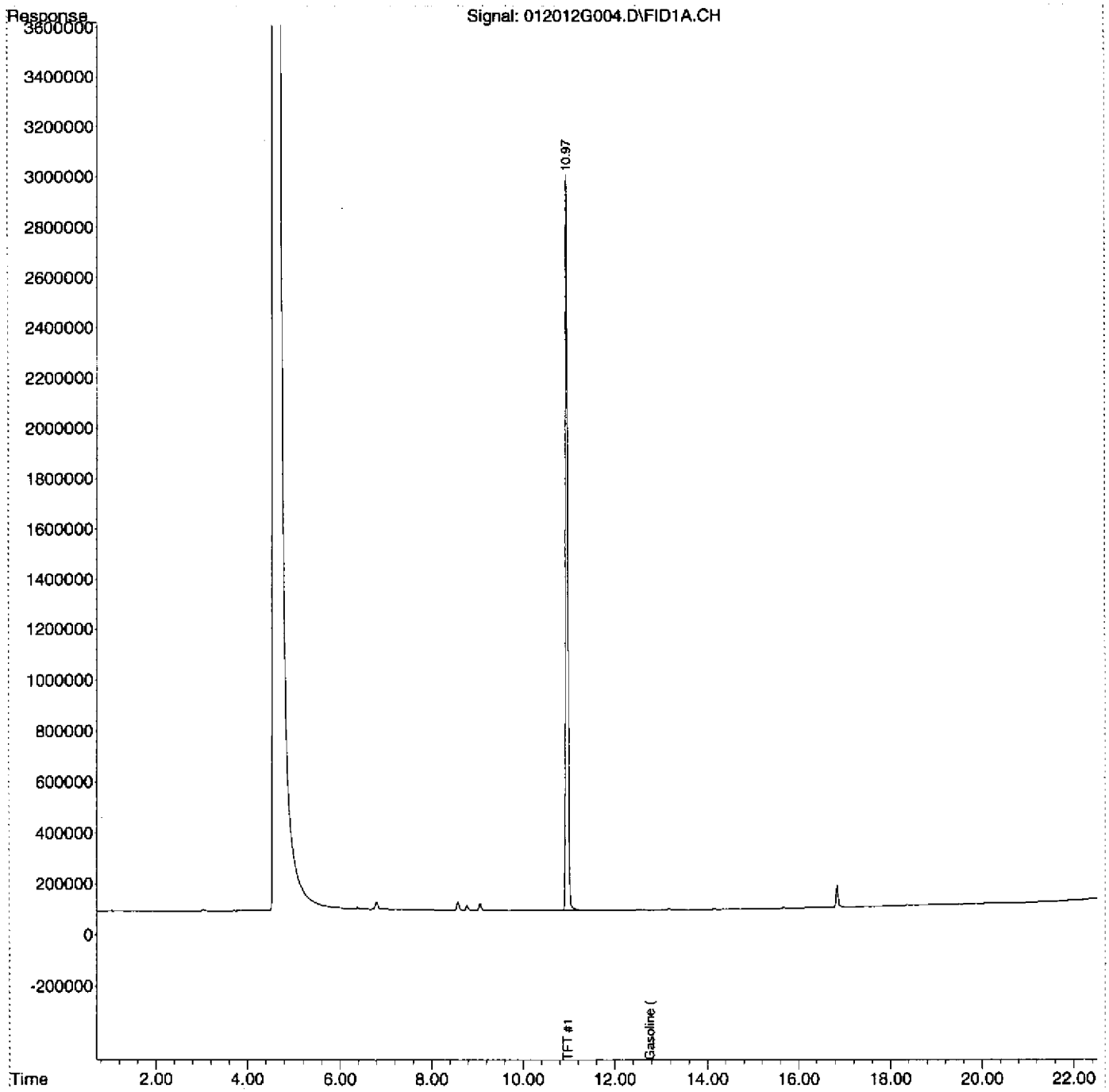
Quantitation Report (Not Reviewed)

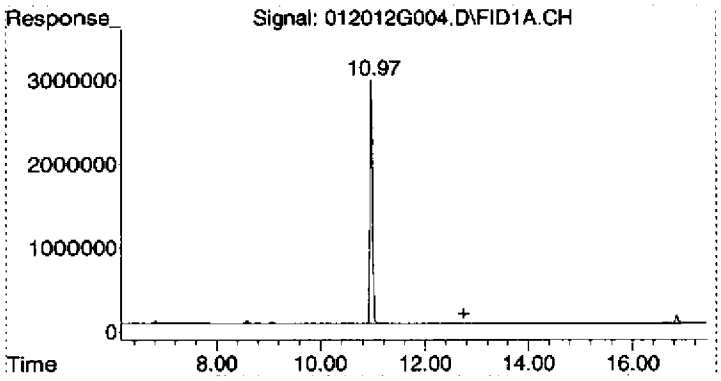
Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G004.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 15:15
Sample : 2010026-IBL3
Misc : BLANK, 1J17002,WATER
ALS Vial : 4 Sample Multiplier: 1

Operator: YNB
Inst : AG6890-7
Multiplr: 1.00

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:02 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 7742219
Conc: 11.11 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G005.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 15:49 Operator: YNB
Sample : 2010026-IBL4 Inst : AG6890-7
Misc : BLANK, 1J17002,WATER Multiplr: 1.00
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:07 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	94885719	121.063 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	96.85%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	4915294	7.055 ug/L

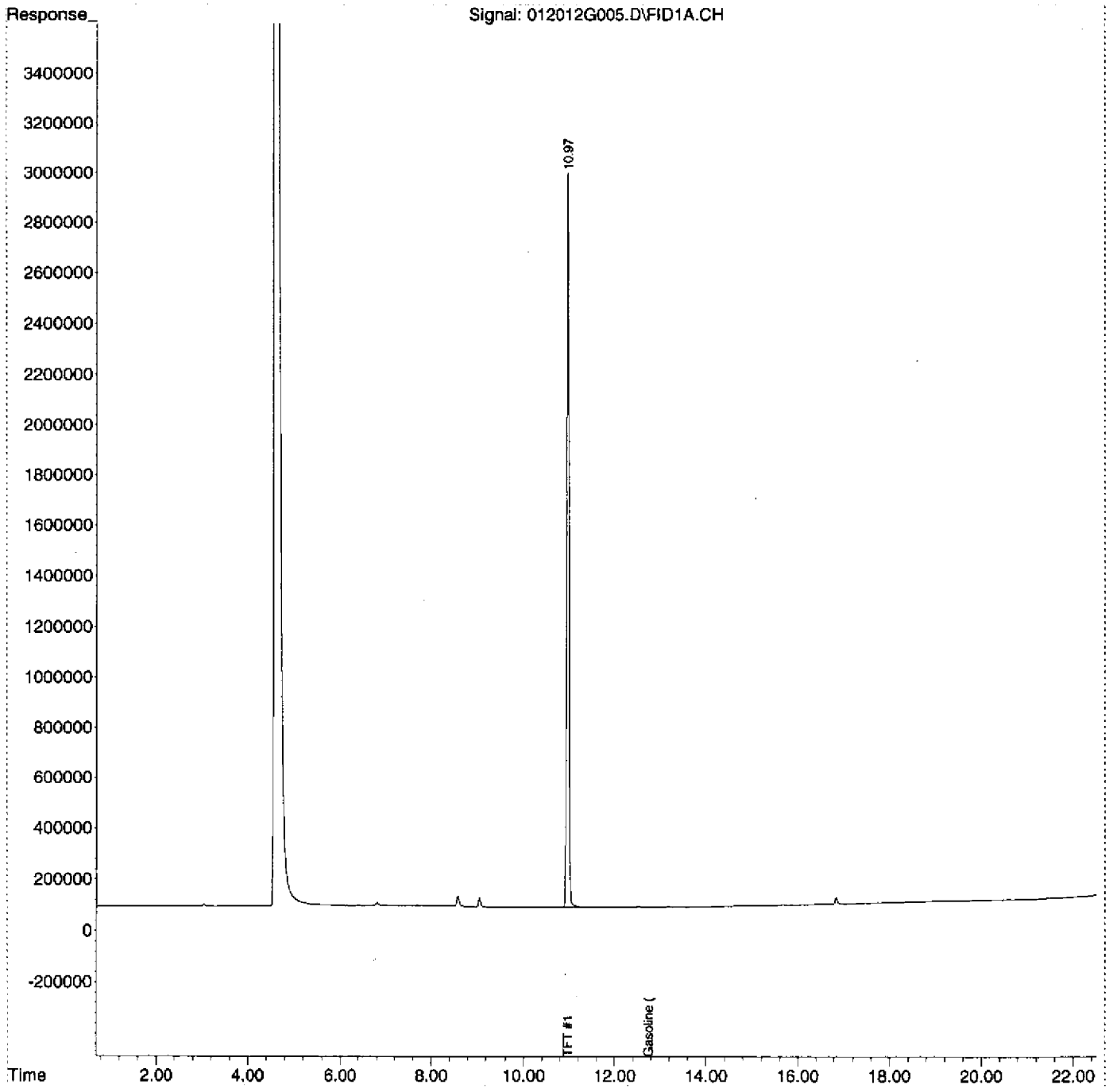
(f)=RT Delta > 1/2 Window (m)=manual int.

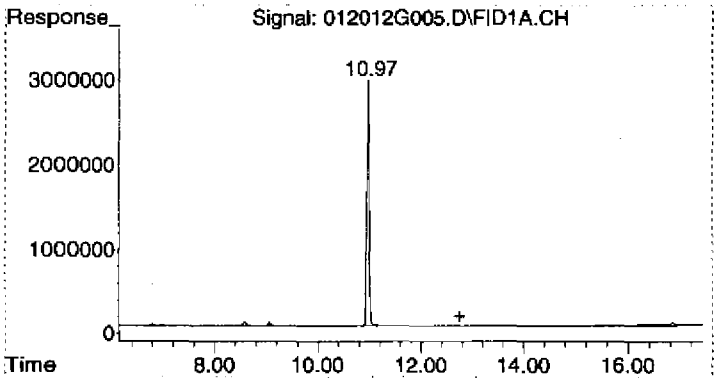
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G005.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 15:49 Operator: YNB
Sample : 2010026-IBL4 Inst : AG6890-7
Misc : BLANK, 1J17002,WATER Multiplr: 1.00
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:07 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.:	12.750 min
Delta R.T.:	0.000 min
Response:	4915294
Conc:	7.06 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G006.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 16:22 Operator: YNB
Sample : 2010026-CAL1 Inst : AG6890-7
Misc : 50ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:12 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	95337945	121.640 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	97.31%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	37862082	54.348 ug/L

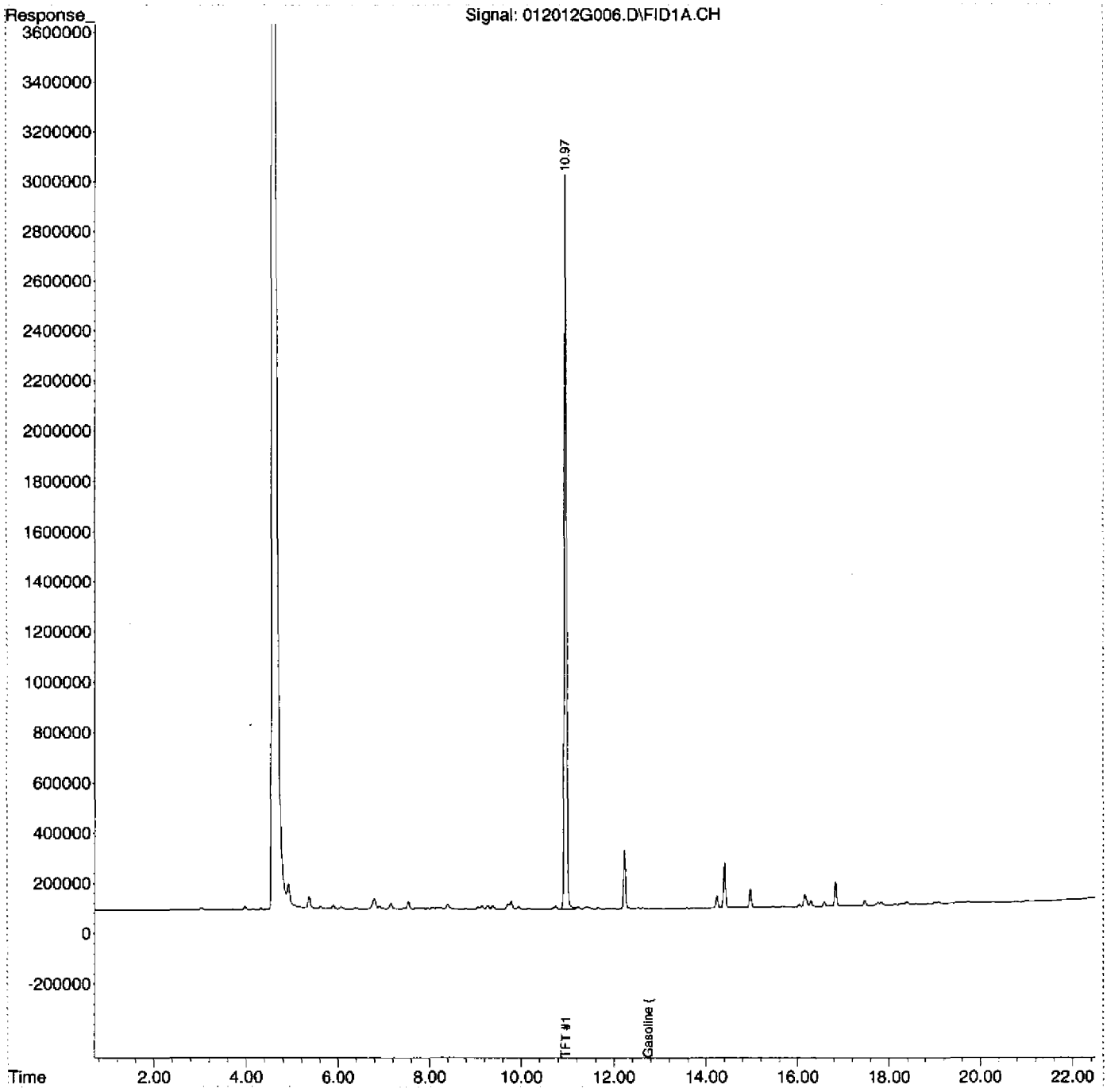
(f)=RT Delta > 1/2 Window (m)=manual int.

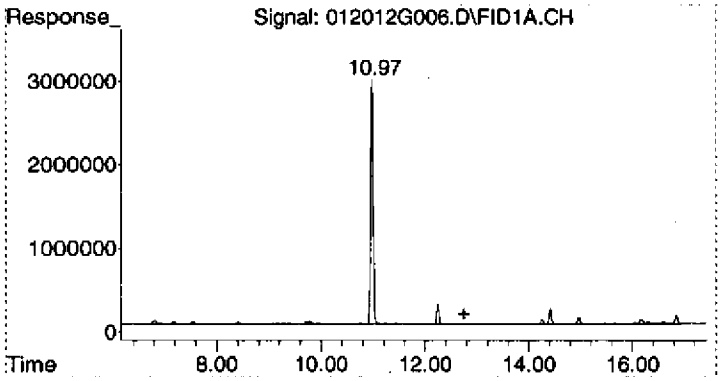
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G006.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 16:22 Operator: YNB
Sample : 2010026-CAL1 Inst : AG6890-7
Misc : 50ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:12 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 37862082
Conc: 54.35 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G007.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 16:56 Operator: YNB
Sample : 2010026-CAL2 Inst : AG6890-7
Misc : 100ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:18 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	97454079	124.340 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 99.47%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	69604180	99.911 ug/L

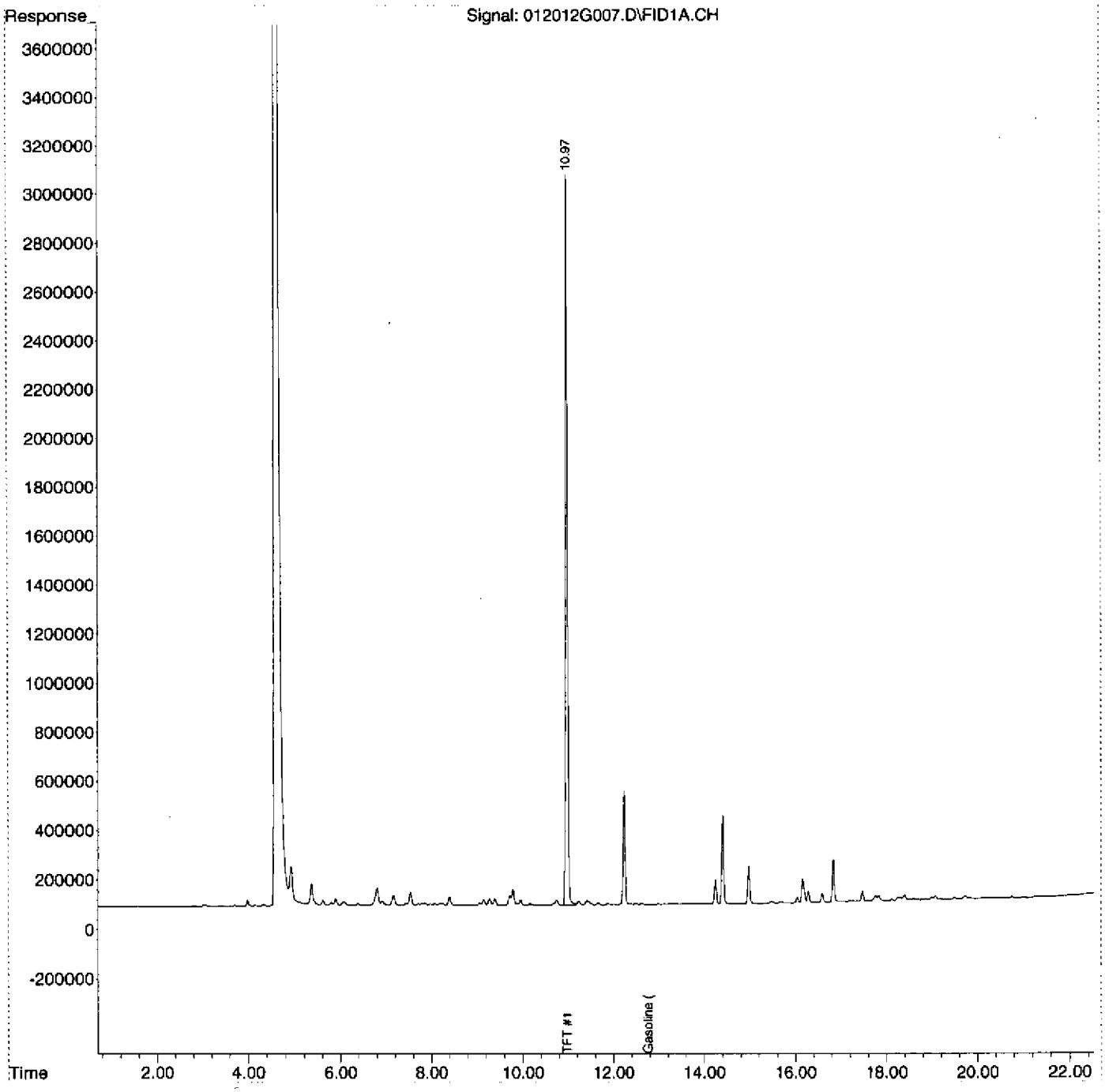
(f)=RT Delta > 1/2 Window (m)=manual int.

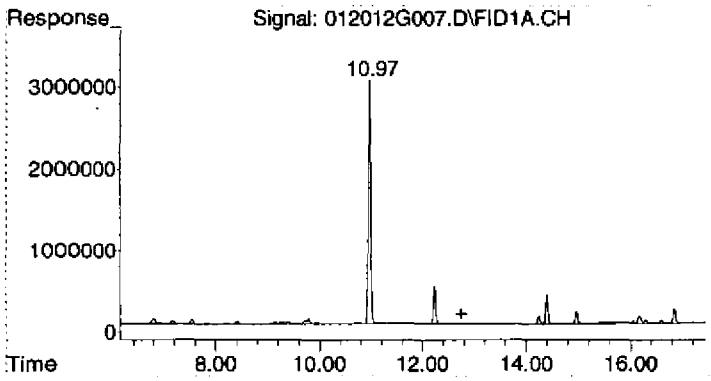
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G007.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 16:56 Operator: YNB
Sample : 2010026-CAL2 Inst : AG6890-7
Misc : 100ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:18 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 69604180
Conc: 99.91 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G008.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 17:29 Operator: YNB
Sample : 2010026-CAL3 Inst : AG6890-7
Misc : 500ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:24 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	97153691	123.957 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	99.17%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	340180872	488.301 ug/L

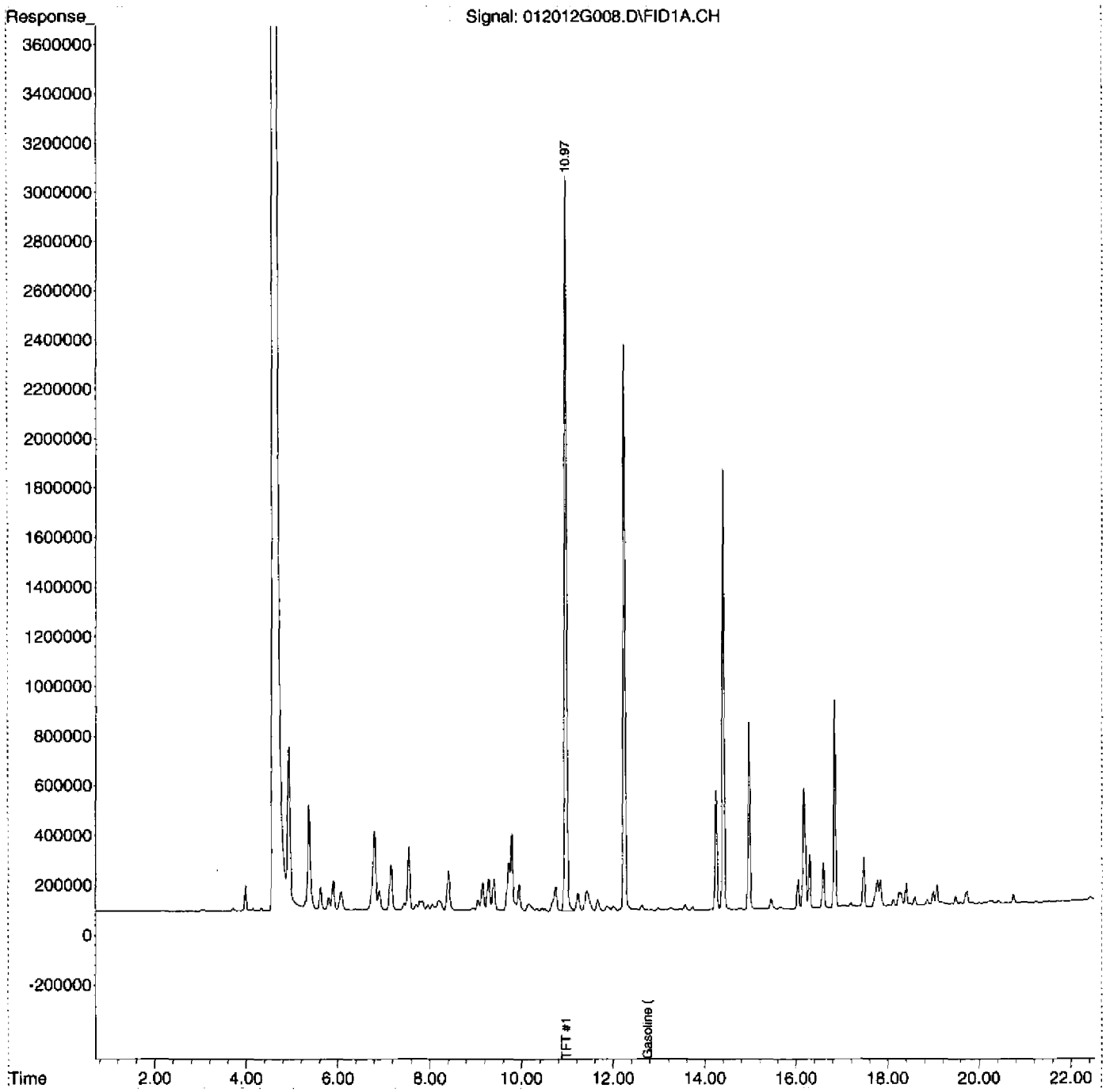
(f)=RT Delta > 1/2 Window (m)=manual int.

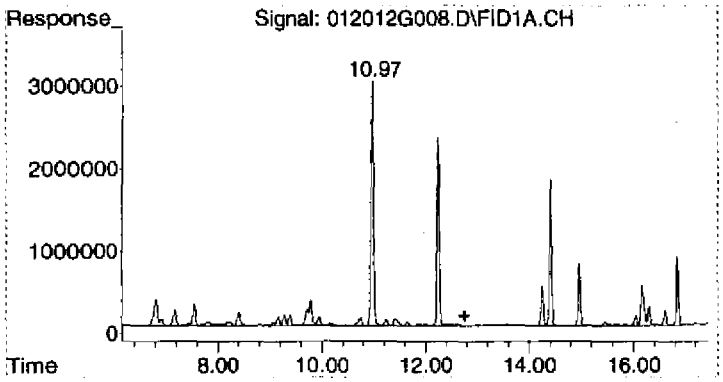
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G008.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 17:29 Operator: YNB
Sample : 2010026-CAL3 Inst : AG6890-7
Misc : 500ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:24 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 340180872
Conc: 488.30 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G009.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 18:03 Operator: YNB
Sample : 2010026-CAL4 Inst : AG6890-7
Misc : 1000ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:30 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	98491719	125.664 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery = 100.53%	
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	675574938	969.732 ug/L

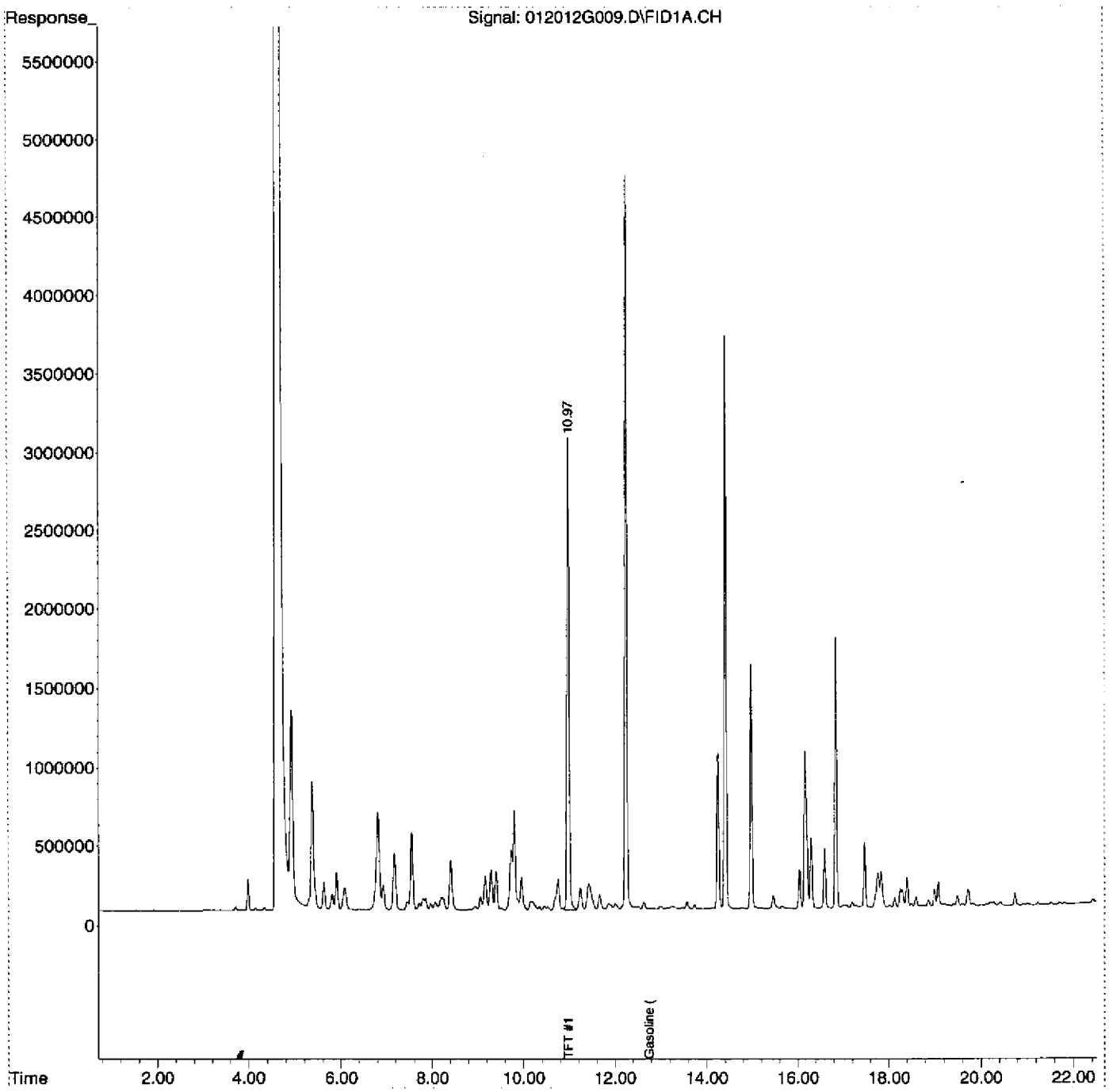
(f)=RT Delta > 1/2 Window (m)=manual int.

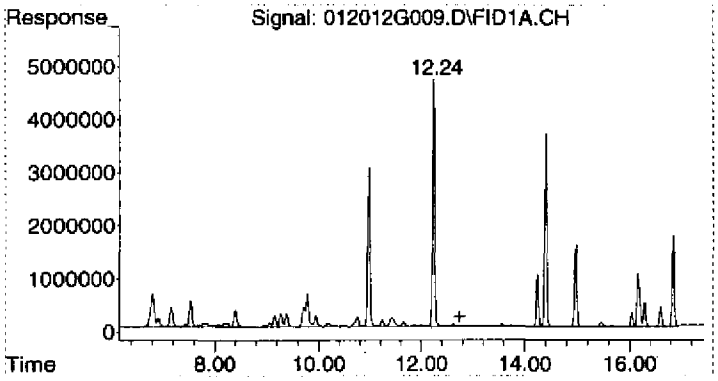
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G009.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 18:03 Operator: YNB
Sample : 2010026-CAL4 Inst : AG6890-7
Misc : 1000ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:30 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 675574938
Conc: 969.73 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G010.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 18:37 Operator: YNB
Sample : 2010026-CAL5 Inst : AG6890-7
Misc : 2000ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:35 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	101418281	129.398 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 103.52%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	1348177709	1935.197 ug/L

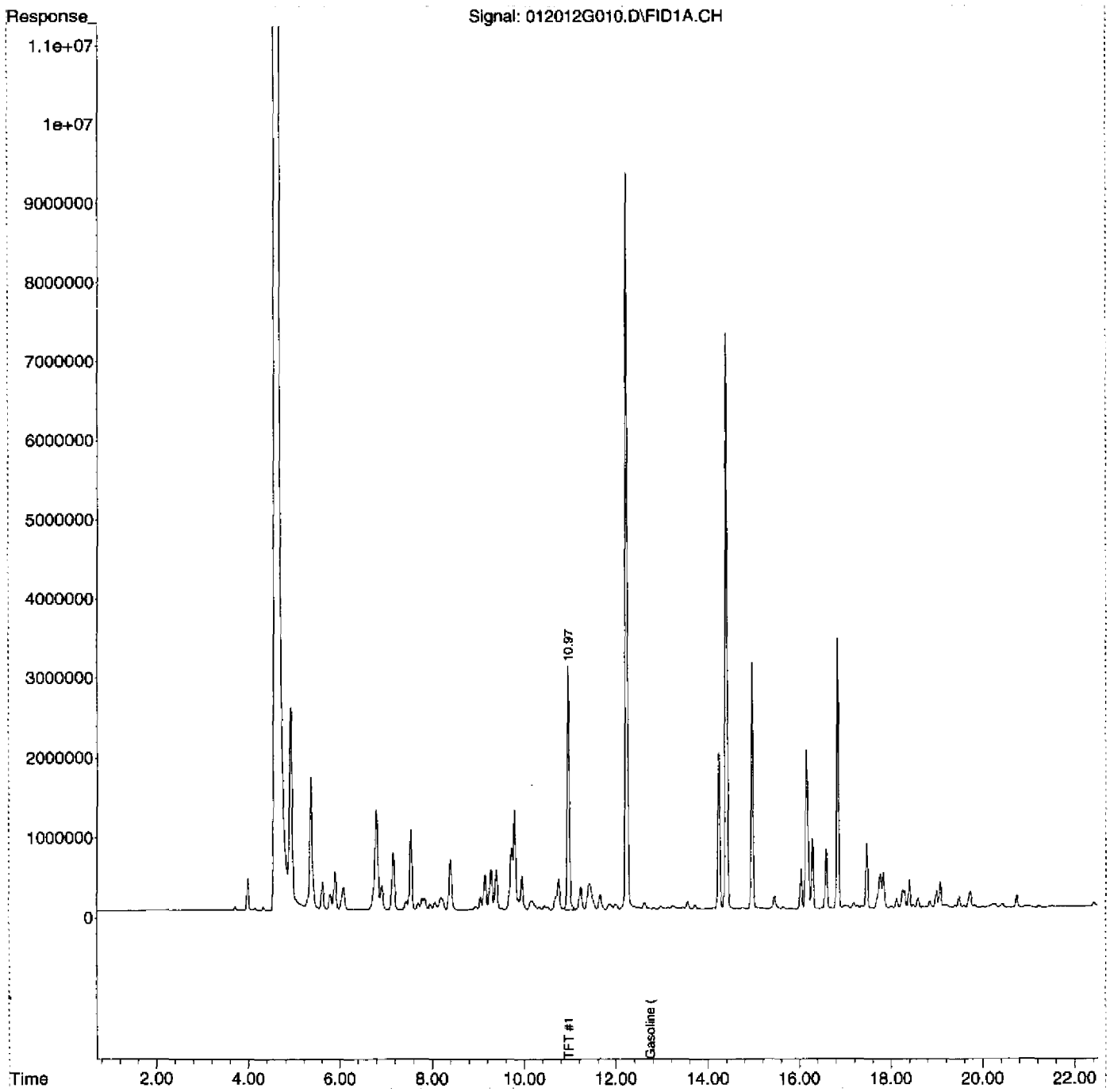
(f)=RT Delta > 1/2 Window (m)=manual int.

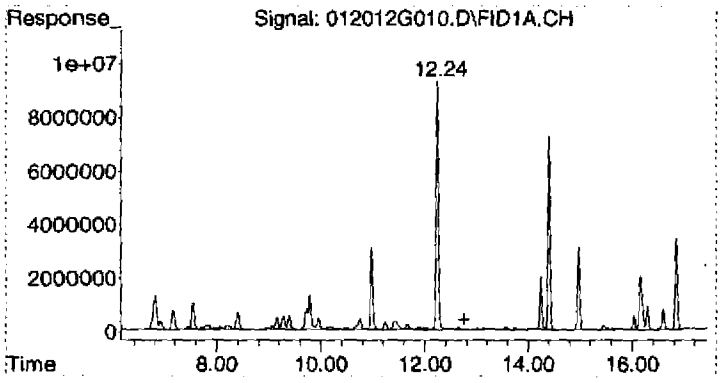
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G010.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 18:37 Operator: YNB
Sample : 2010026-CAL5 Inst : AG6890-7
Misc : 2000ug/L, 1J17001,WATER Multiplr: 1.00
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:35 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 1348177709
Conc: 1935.20 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G011.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 19:10 Operator: YNB
Sample : BLANK Inst : AG6890-7
Misc : BLANK,WATER Multiplr: 1.00
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:40 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	94730819	120.866 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	96.69%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	7351997	10.553 ug/L

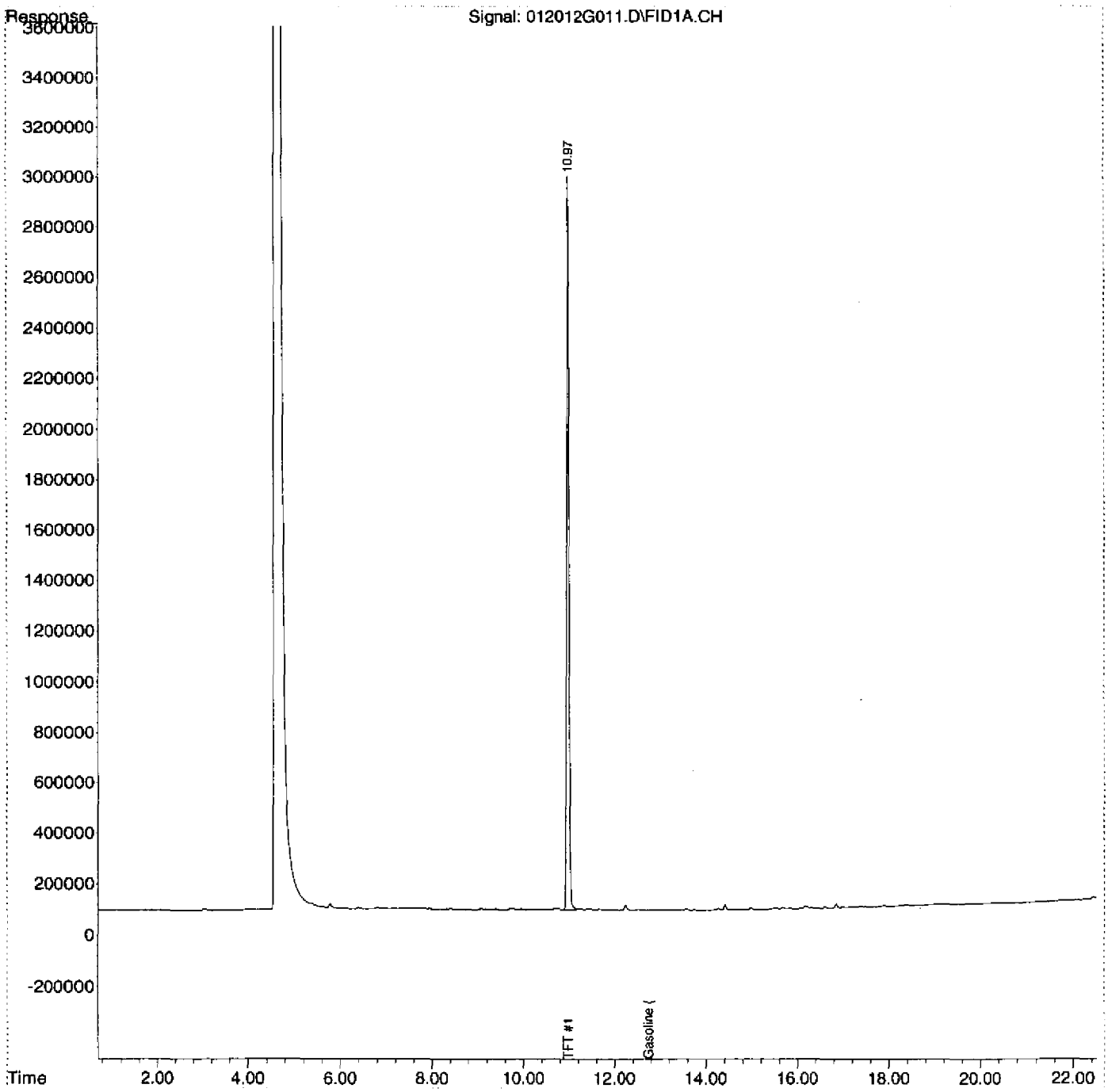
(f)=RT Delta > 1/2 Window (m)=manual int.

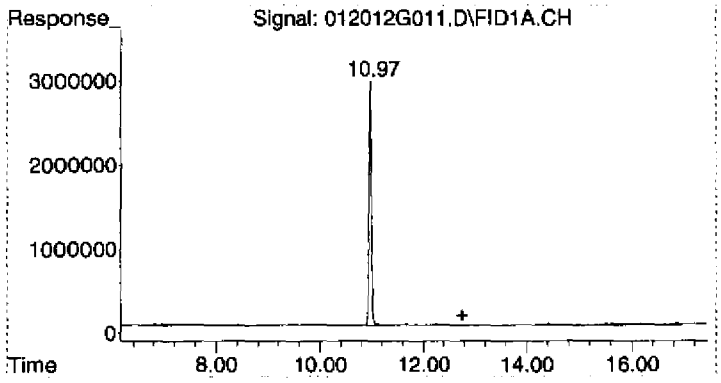
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G011.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 19:10 Operator: YNB
Sample : BLANK Inst : AG6890-7
Misc : BLANK,WATER Multiplr: 1.00
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:40 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 7351997
Conc: 10.55 ug/L m

Sample Name 2010026-SCV1
Operator YNB
Data File Name 012012G012.D
Date Acquired 1/20/2012 19:43
Instrument Name AG6890-7

Name	Units	Spike	Amount	% Recovery	QC LIMIT	STATUS
Gasoline (TPH) #1	ug/L	500	503.13	100.63%	70-130	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G012.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 19:43 Operator: YNB
Sample : 2010026-SCV1 Inst : AG6890-7
Misc : 500ug/L 2A10001,WATER Multiplr: 1.00
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:45 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	97231869	124.057 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 99.25%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	350513084	503.132 ug/L

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

$$\frac{350513084}{696700} = 503.105$$

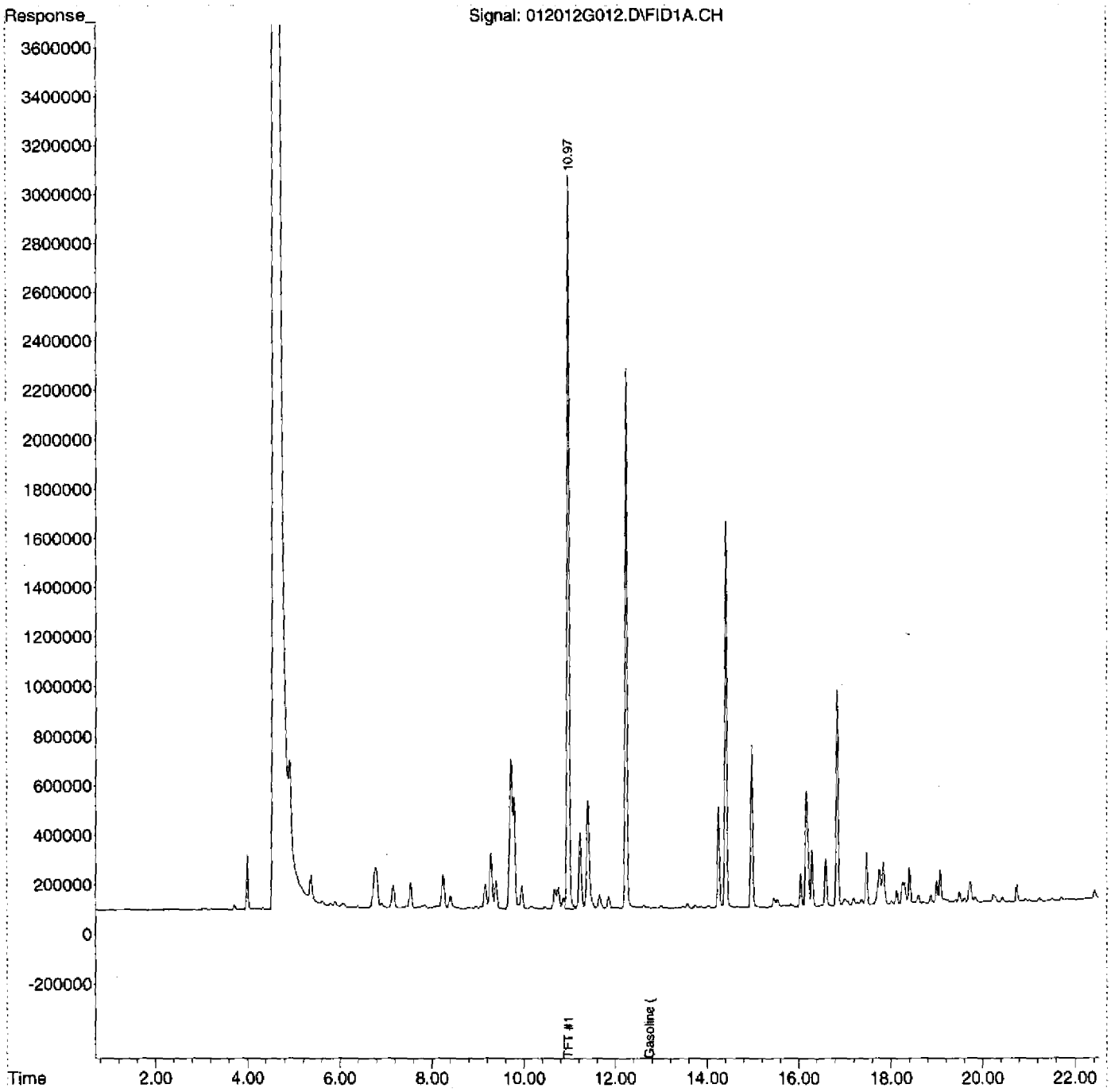
YNB
01.24.12

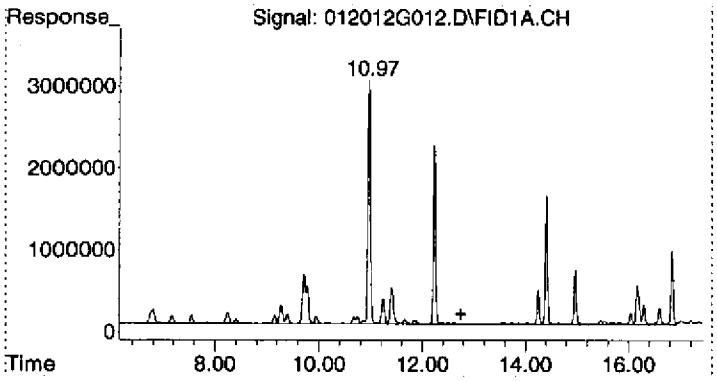
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G012.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 19:43 Operator: YNB
Sample : 2010026-SCV1 Inst : AG6890-7
Misc : 500ug/L 2A10001,WATER Multiplr: 1.00
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:45 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 350513084
Conc: 503.13 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G013.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 20:16 Operator: YNB
Sample : 2010026-ICB1 Inst : AG6890-7
Misc : NAPHTHA,2A10005,WATER Multiplr: 1.00
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:51 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	96197778	122.737 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	98.19%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	252852098	362.948 ug/L

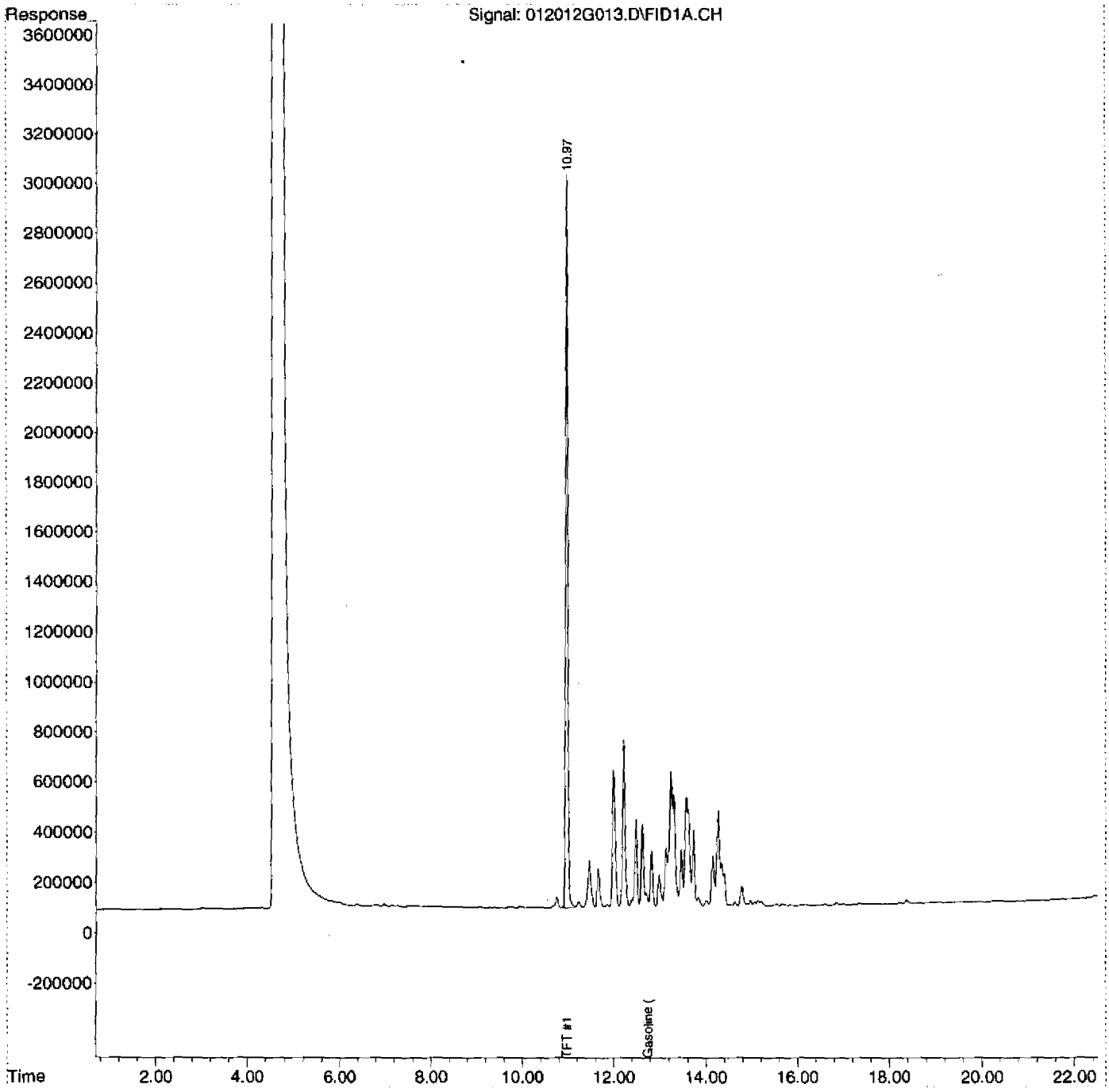
(f)=RT Delta > 1/2 Window (m)=manual int.

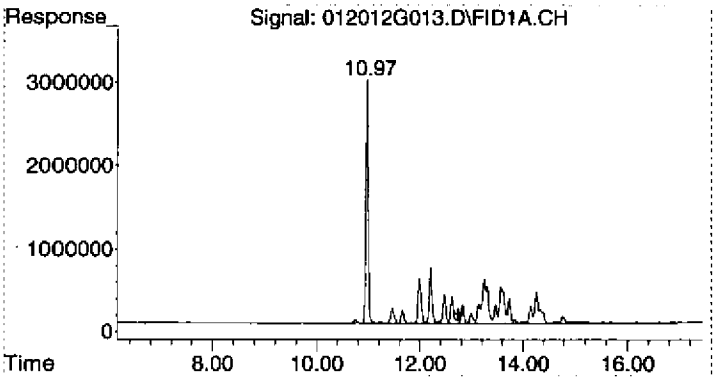
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G013.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 20:16 Operator: YNB
Sample : 2010026-ICB1 Inst : AG6890-7
Misc : NAPHTHA,2A10005,WATER Multiplr: 1.00
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:51 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 252852098
Conc: 362.95 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G014.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 20:49 Operator: YNB
Sample : 2010026-ICB2 Inst : AG6890-7
Misc : TURPENTINE,2A10006,WATER Multiplr: 1.00
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:57 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	94686583	120.809 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	96.65%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	199721374	286.683 ug/L

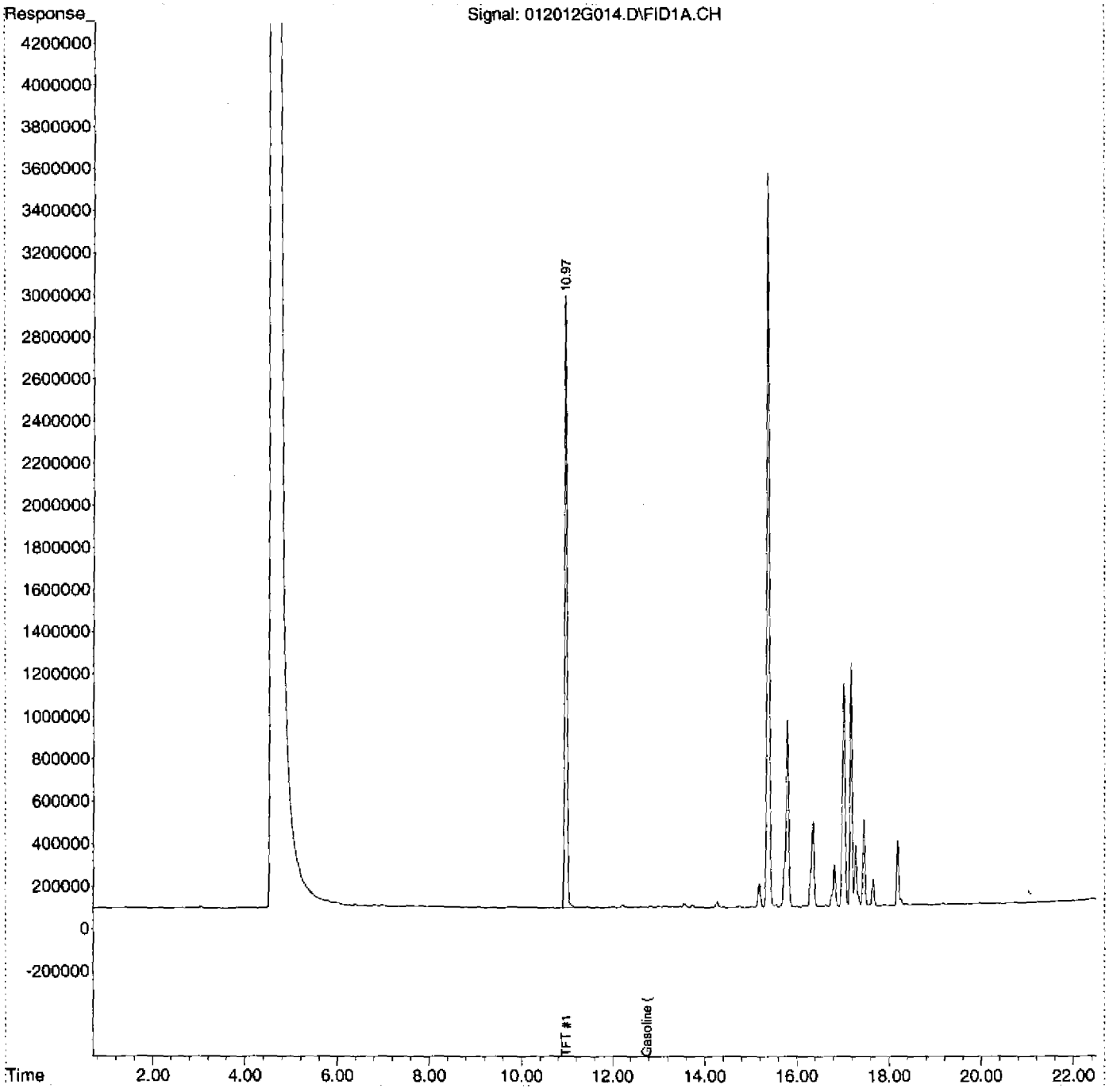
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G014.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 20:49 Operator: YNB
Sample : 2010026-ICB2 Inst : AG6890-7
Misc : TURPENTINE,2A10006,WATER Multiplr: 1.00
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:46:57 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

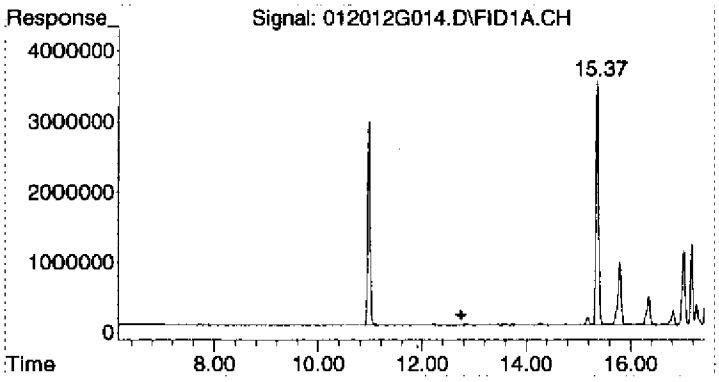
Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID



00072

DIM0279790

DIM0279870



#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 199721374
Conc: 286.68 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G015.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 21:22 Operator: YNB
Sample : 2010026-ICB3 Inst : AG6890-7
Misc : MIN.SPIRITS,2A10007,WATER Multiplr: 1.00
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:47:03 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	93816478	119.699 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 95.76%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	181929229	261.144 ug/L

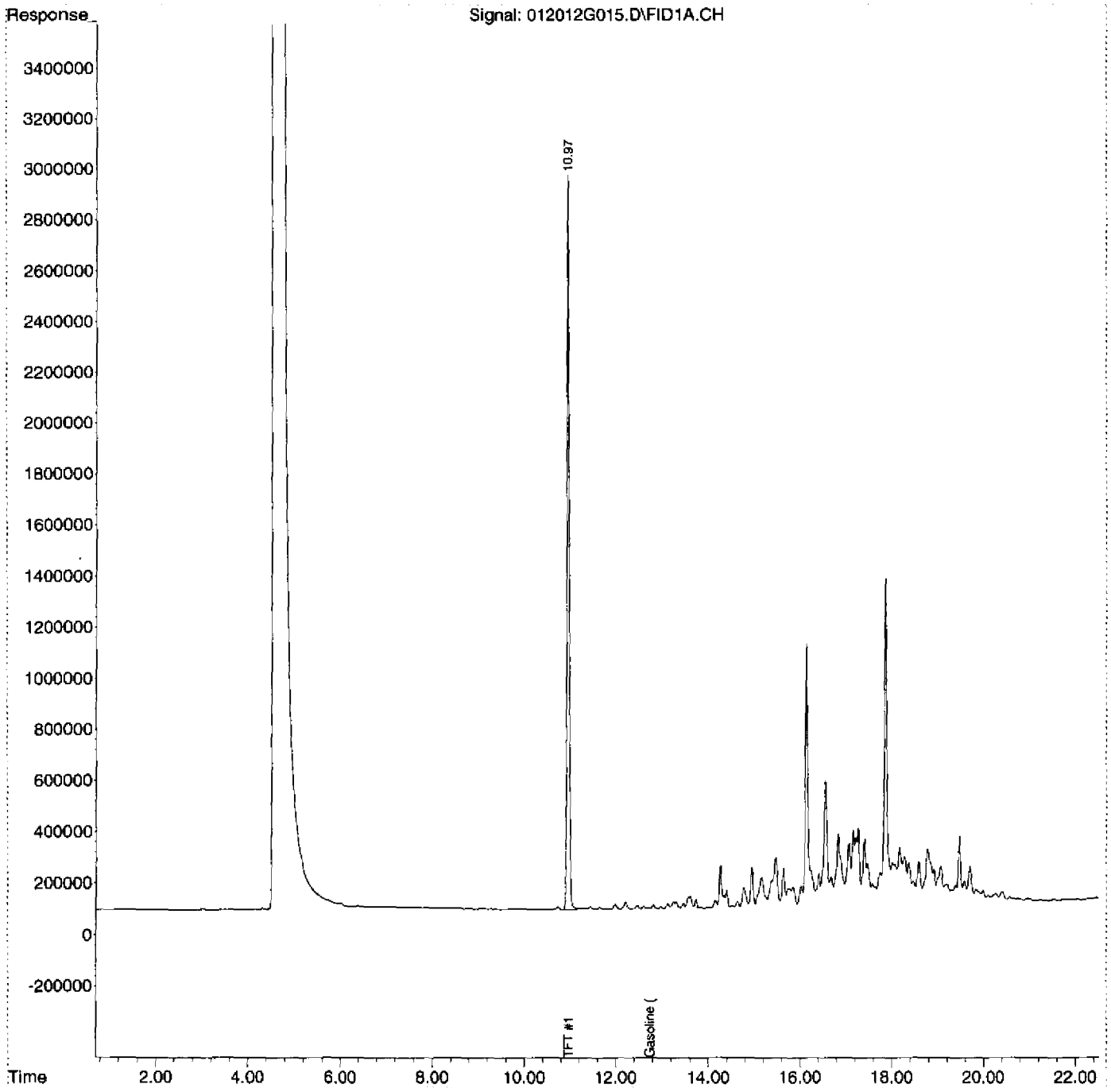
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G015.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 21:22 Operator: YNB
Sample : 2010026-ICB3 Inst : AG6890-7
Misc : MIN.SPIRITS,2A10007,WATER Multiplr: 1.00
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:47:03 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

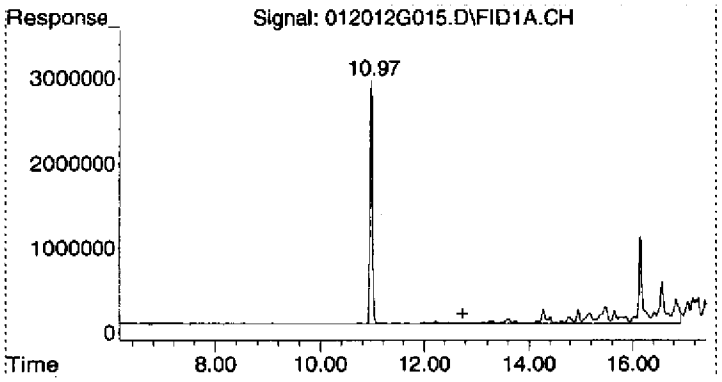
Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID



: 00075

DIM0279790

DIM0279873



#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 181929229
Conc: 261.14 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\012012ARCH\
Data File : 012012G016.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 21:55 Operator: YNB
Sample : 2010026-ICB4 Inst : AG6890-7
Misc : Lacguer,2A10009,WATER Multiplr: 1.00
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:47:08 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	97024123	123.792 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 99.03%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	211268367	303.258 ug/L

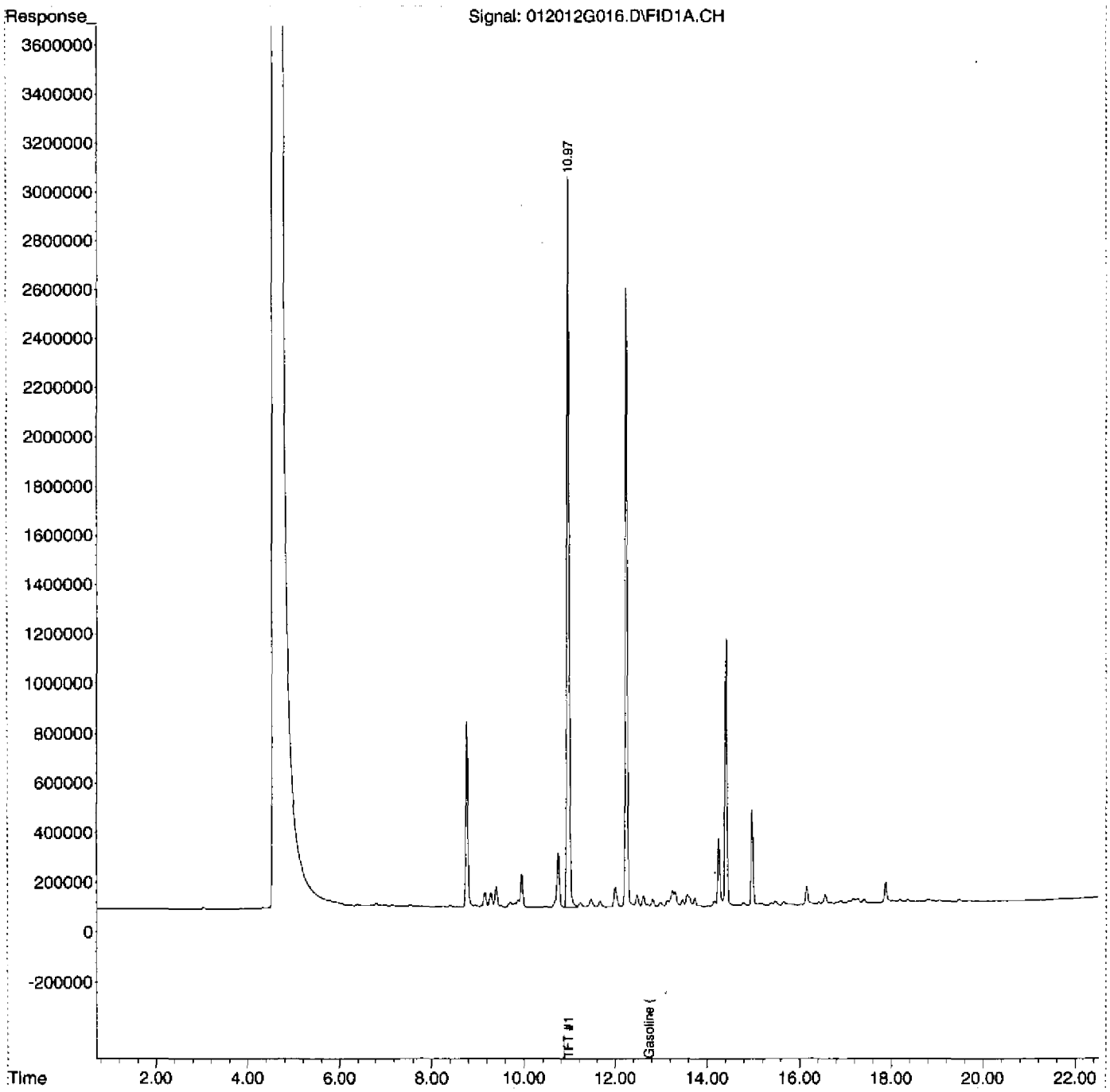
(f)=RT Delta > 1/2 Window (m)=manual int.

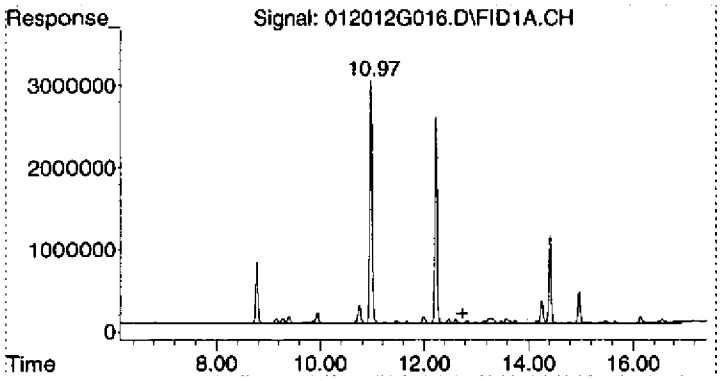
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\012012ARCH\
Data File : 012012G016.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 21:55 Operator: YNB
Sample : 2010026-ICB4 Inst : AG6890-7
Misc : Lacguer,2A10009,WATER Multiplr: 1.00
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:47:08 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 211268367
Conc: 303.26 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\012012ARCH\
Data File : 012012G017.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 22:28 Operator: YNB
Sample : 2010026-ICB5 Inst : AG6890-7
Misc : STODDARD,2A10011,WATER Multiplr: 1.00
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:47:13 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	95673097	122.068 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	97.65%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	229433310	329.332 ug/L

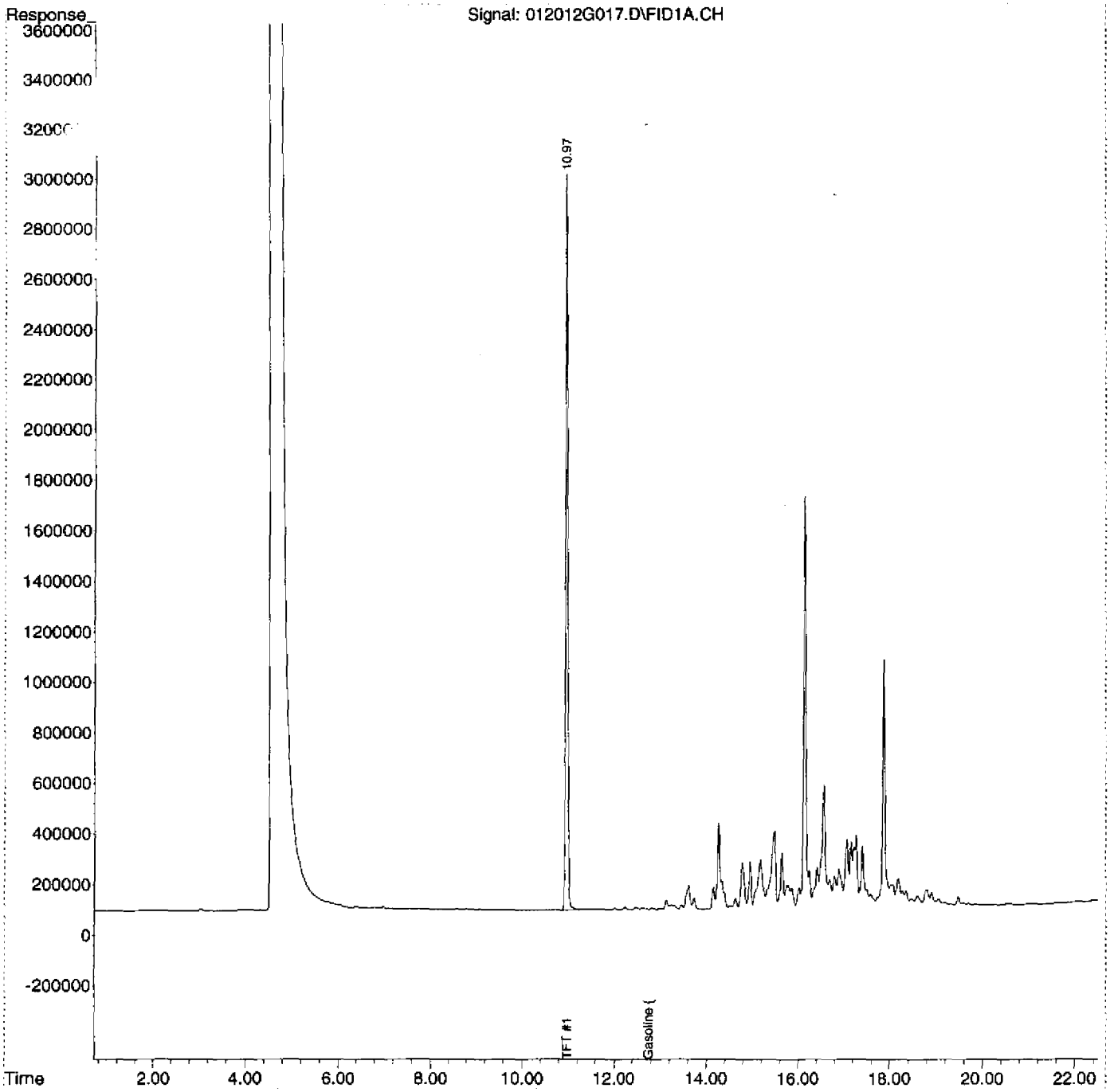
(f)=RT Delta > 1/2 Window (m)=manual int.

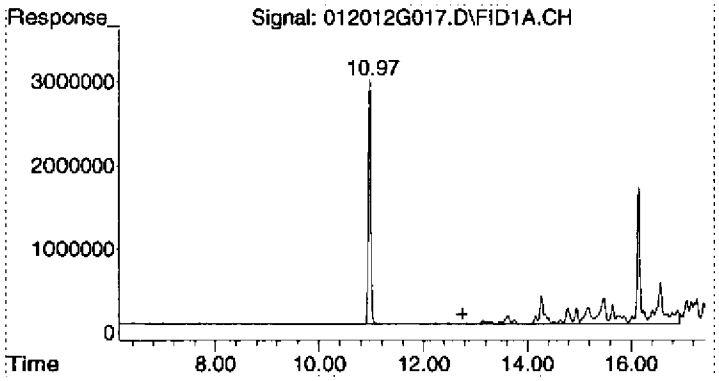
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\012012ARCH\
Data File : 012012G017.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 22:28 Operator: YNB
Sample : 2010026-ICBS Inst : AG6890-7
Misc : STODDARD,2A10011,WATER Multiplr: 1.00
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:47:13 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 229433310
Conc: 329.33 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G018.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 23:01 Operator: YNB
Sample : 2010026-ICB6 Inst : AG6890-7
Misc : DIESEL,2A10012,WATER Multiplr: 1.00
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:47:19 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped .

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	96421243	123.023 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.42%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	3103853264	4455.323 ug/L

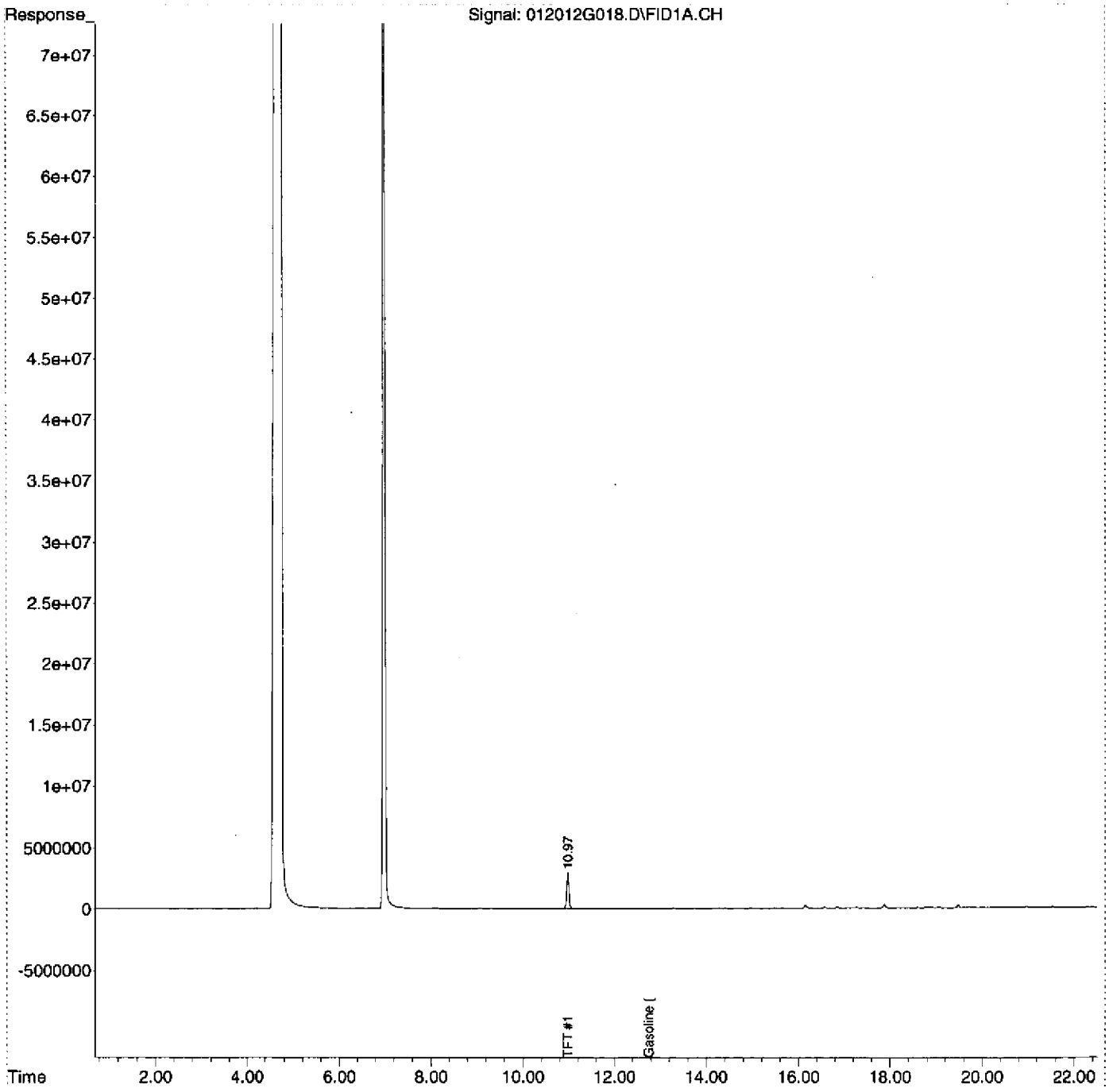
(f)=RT Delta > 1/2 Window (m)=manual int.

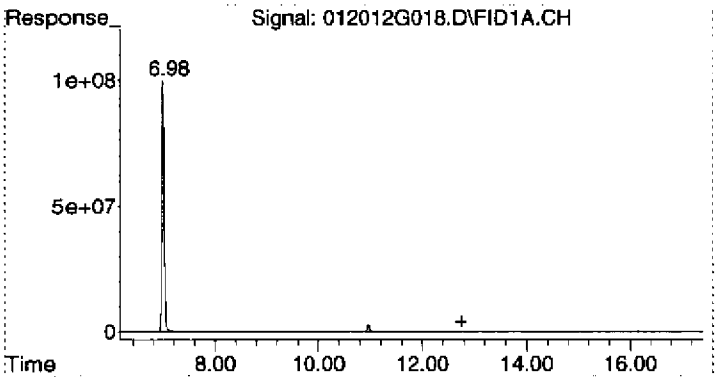
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\012012ARCH\
Data File : 012012G018.D
Signal(s) : FID1A.CH
Acq On : 20 Jan 2012 23:01 Operator: YNB
Sample : 2010026-ICB6 Inst : AG6890-7
Misc : DIESEL,2A10012,WATER Multiplr: 1.00
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Jan 24 08:47:19 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 3103853264
Conc: 4455.32 ug/L m

SDG: R33911 / 120674

Instrument: AG 6890-7

Analysis Date: 03.08.12

SAMPLE DATA

G:\USER\ESAT\1 Organic Group\Forms\DataPackageSeparators.doc

Injection Log

Operator: YNB
Directory: C:\MSDCHEM\1\2012\DATA\030812ARCH\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
3	030812G001.D	0	2030021-CCV1	25uL 1J17002 WATER	08 Mar 2012 10:48
4	030812G002.D	0	2030021-LCV1	2.5uL 1J17002 WATER	08 Mar 2012 11:22
5	030812G003.D	0	B2C0041-BLK1	BLANK WATER	08 Mar 2012 11:55
6	030812G004.D	0	B2C0041-BS1	25uL 1J17002 WATER	08 Mar 2012 12:27
7	030812G005.D	0	1203018-05	TB50,C, WATER	08 Mar 2012 13:01
8	030812G006.D	0	1203018-01	FB19,C, WATER	08 Mar 2012 13:33
9	030812G007.D	0	1203018-02	HW60,C, WATER	08 Mar 2012 14:05
10	030812G008.D	0	1203018-03	TB49,C, WATER	08 Mar 2012 14:38
11	030812G009.D	0	1203018-04	HW56,I, WATER	08 Mar 2012 15:11
12	030812G010.D	0	B2C0041-MS1	HW56,J, WATER SPIKE	08 Mar 2012 15:43
13	030812G011.D	0	B2C0041-MSD1	HW56,H, WATER SPIKE	08 Mar 2012 16:16
14	030812G012.D	0	2030021-SB1	SB 02/20/12, WATER	08 Mar 2012 16:48
15	030812G013.D	0	1203020-05	TB51,C, WATER	08 Mar 2012 17:21
16	030812G014.D	0	1203020-01	FB20,C, WATER	08 Mar 2012 17:53
17	030812G015.D	0	1203020-02	HW61,C, WATER	08 Mar 2012 18:26
18	030812G016.D	0	1203020-03	HW61-P,C, WATER	08 Mar 2012 18:58
19	030812G017.D	0	1203020-04	HW61z,C, WATER	08 Mar 2012 19:31
20	030812G018.D	0	2030021-CCV5 NW	25uL 1J17002 WATER	09 Mar 2012 15:41
21	030812G019.D	0	2030021-CCV6 NW	25uL 1J17002 WATER	09 Mar 2012 16:14

YNB
03.16.12

GC QA-QC Check Report

Daily Calibration File : C:\MSDCHEM\1\2012\DATA\030812ARCH\030812G001.D
Time Acquired : 08 Mar 2012 10:48

File	Sample	Surrogate Recovery %	Internal Standard Responses
030812G003.D	B2C0041-BLK1	99	
030812G004.D	B2C0041-BS1	99	
030812G005.D	1203018-05	99	
030812G006.D	1203018-01	98	
030812G007.D	1203018-02	98	
030812G008.D	1203018-03	97	
030812G009.D	1203018-04	98	
030812G010.D	B2C0041-MS1	102	
030812G011.D	B2C0041-MSD1	102	
030812G012.D	2030021-SB1	92	SB 02/20/12
030812G013.D	1203020-05	94	
030812G014.D	1203020-01	98	
030812G015.D	1203020-02	98	
030812G016.D	1203020-03	92	
030812G017.D	1203020-04	98	

(fails) - fails 12hr time check * - fails criteria

Created: Mon Mar 12 09:34:25 2012 AG6890-7

Response Factor Report AG6890-7

Method Path : C:\MSDCHEM\1\2012\METHOD\
Method File : 012012GS.M
Title : GC TPH Method
Last Update : Mon Jan 23 13:58:52 2012
Response Via : Initial Calibration

Calibration Files
G50 =012012G006.D G100 =012012G007.D G500 =012012G008.D
G1K =012012G009.D G2K =012012G010.D

	Compound	G50	G100	G500	G1K	G2K	Avg		%RSD
1)	HRM Gasoline (TPH) #1	7.572	6.960	6.804	6.756	6.741	6.967	E5	5.02
2)	S TFT #1	7.627	7.796	7.772	7.879	8.113	7.838	E5	2.28

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 999912G002.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 10:15 Operator: YNB
Sample : BLANK Inst : AG6890-7
Misc : BLANK, WATER Multiplr: 1.00
ALS Vial : 2 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 10:55:44 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	96606464	123.259 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.61%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	4166125	5.980 ug/L

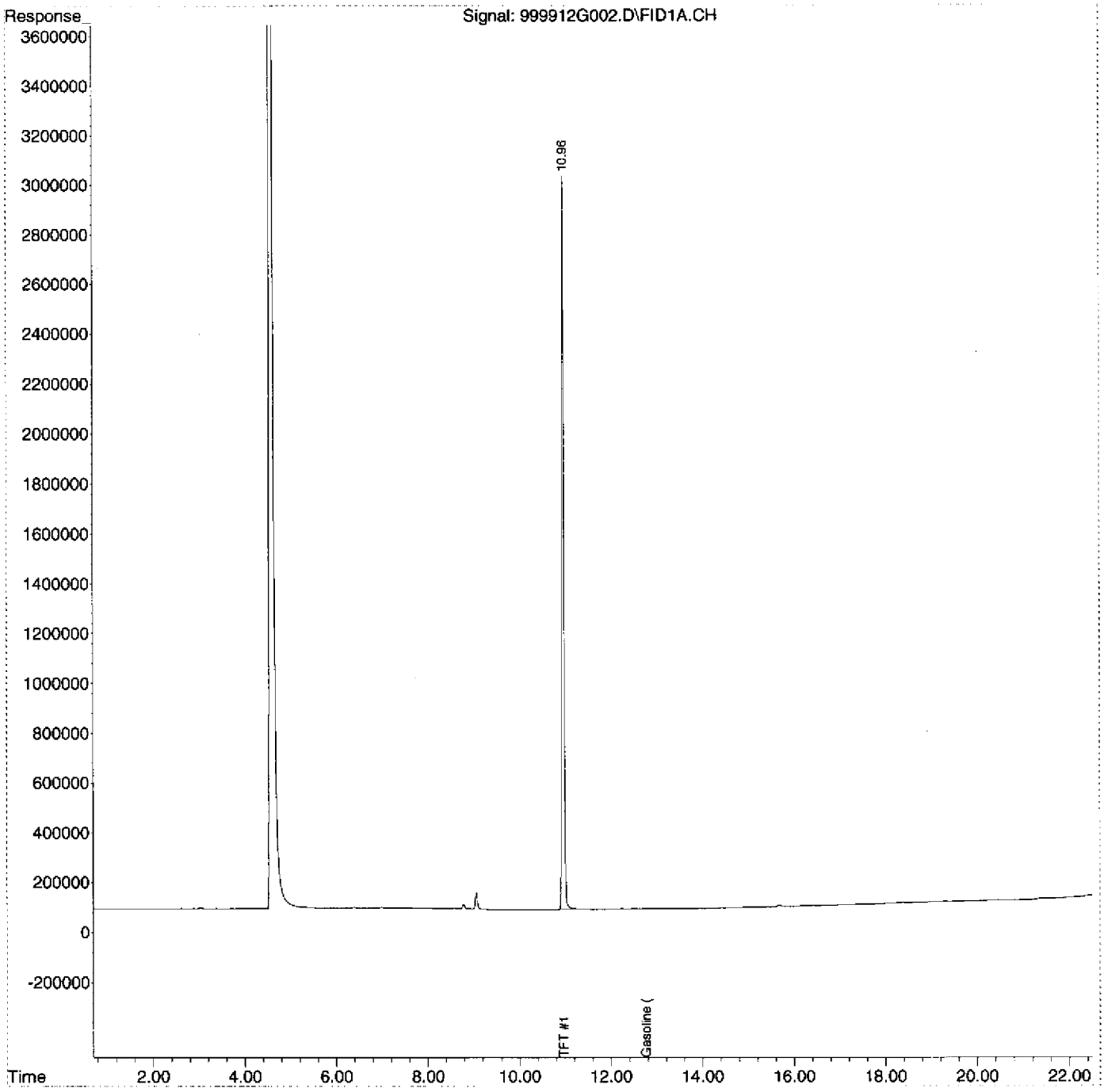
(f)=RT Delta > 1/2 Window (m)=manual int.

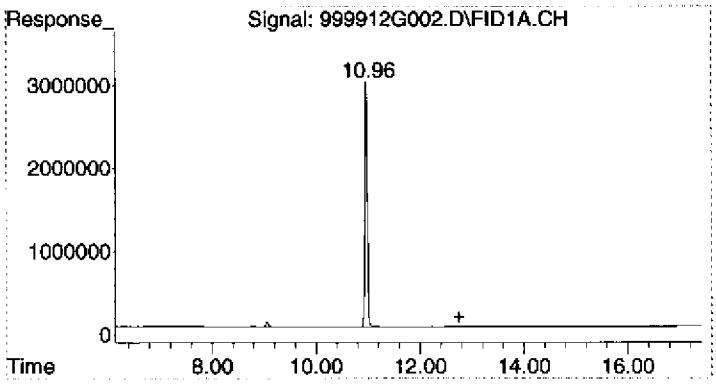
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 999912G002.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 10:15 Operator: YNB
Sample : BLANK Inst : AG6890-7
Misc : BLANK, WATER Multiplr: 1.00
ALS Vial : 2 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 10:55:44 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 4166125
Conc: 5.98 ug/L m

Evaluate Continuing Calibration Report

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G001.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 10:48 Operator: YNB
Sample : 2030021-CCV1 Inst : AG6890-7
Misc : 25uL ~~0J07001~~ WATER 1J1700J Multiplr: 1.00
ALS Vial : 3 Sample Multiplier: 1 YNB 03.16.12

Integration File: EVENTS1.E
Quant Time: Mar 08 11:14:03 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Min. RRF : 0.000 Min. Rel. Area : 70% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 130%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 HRM Gasoline (TPH) #1	696.662	678.768 E3	2.6	100	0.00
2 S TFT #1	783.769	784.656 E3	-0.1	101	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G001.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 10:48 Operator: YNB
Sample : 2030021-CCV1 Inst : AG6890-7
Misc : 25uL ~~0J07001~~ WATER 1117002 Multiplr: 1.00
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 11:14:03 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	98081989	125.141 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 100.11%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	339384130	487.158 ug/L

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

$$\frac{98081989}{783800} = 125.137$$

YNB
03.12.12

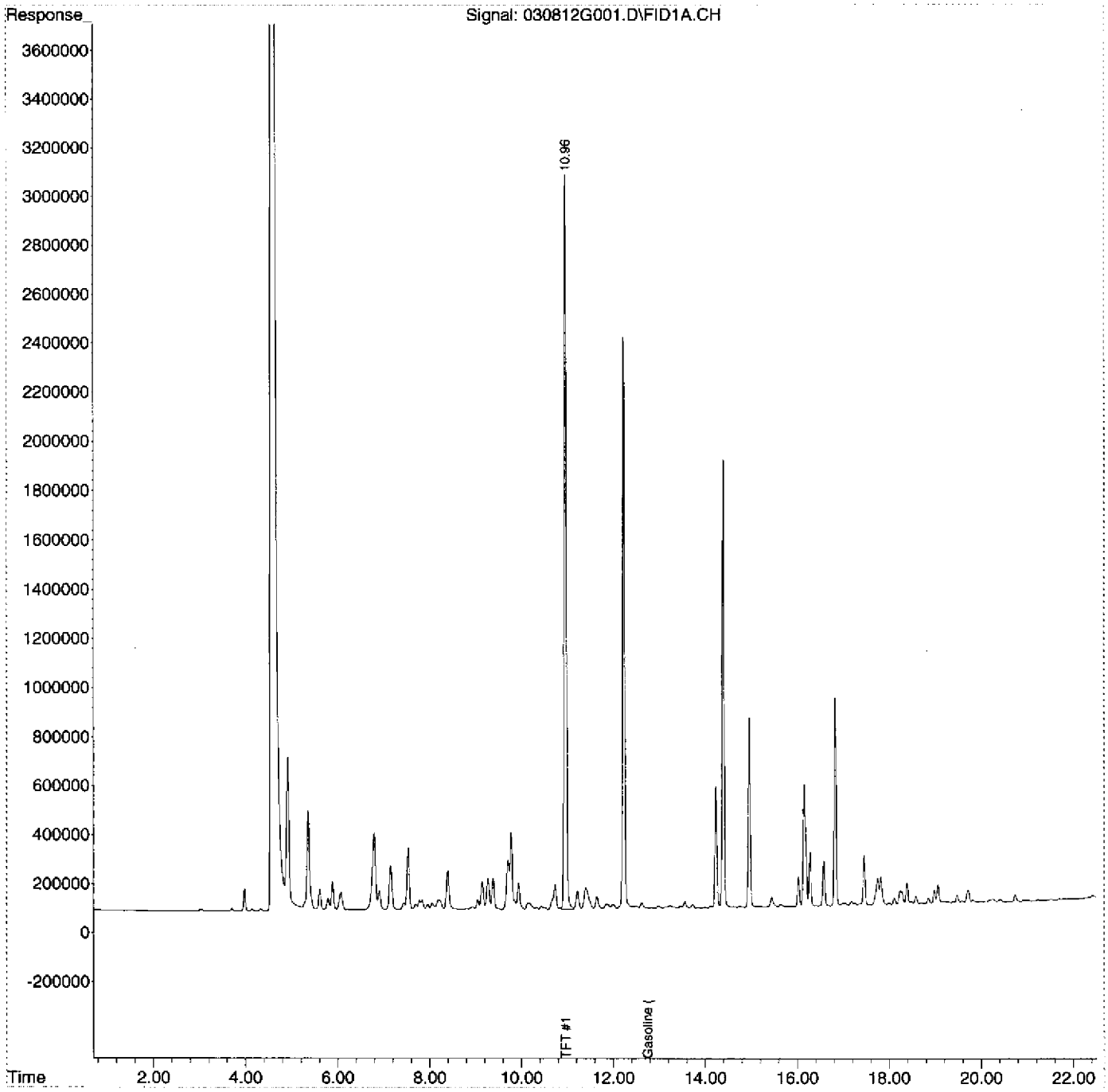
DIM0279790 DIM0279892

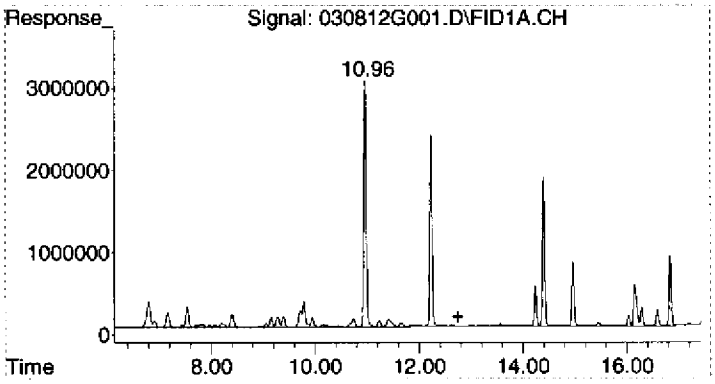
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G001.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 10:48 Operator: YNB
Sample : 2030021-CCV1 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 11:14:03 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 339384130
Conc: 487.16 ug/L m

Sample Name 2030021-LCV1
Operator YNB
Data File Name 030812G002.D
Date Acquired 3/8/2012 11:22
Instrument Name AG6890-7

Name	Units	Spike	Amount	% Recovery	QC LIMIT
Gasoline (TPH) #1	ug/L	50.00	53.15	106.30%	60-140

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G002.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 11:22 Operator: YNB
Sample : 2030021-LCV1 Inst : AG6890-7
Misc : 2.5uL ~~0J07001~~ WATER 1j17002 Multiplr: 1.00
ALS Vial : 4 Sample Multiplier: 1 YNB 03 16.12

Integration File: EVENTS1.E
Quant Time: Mar 08 12:17:26 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	89883829	114.682 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 91.75%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	37026985	53.149 ug/L

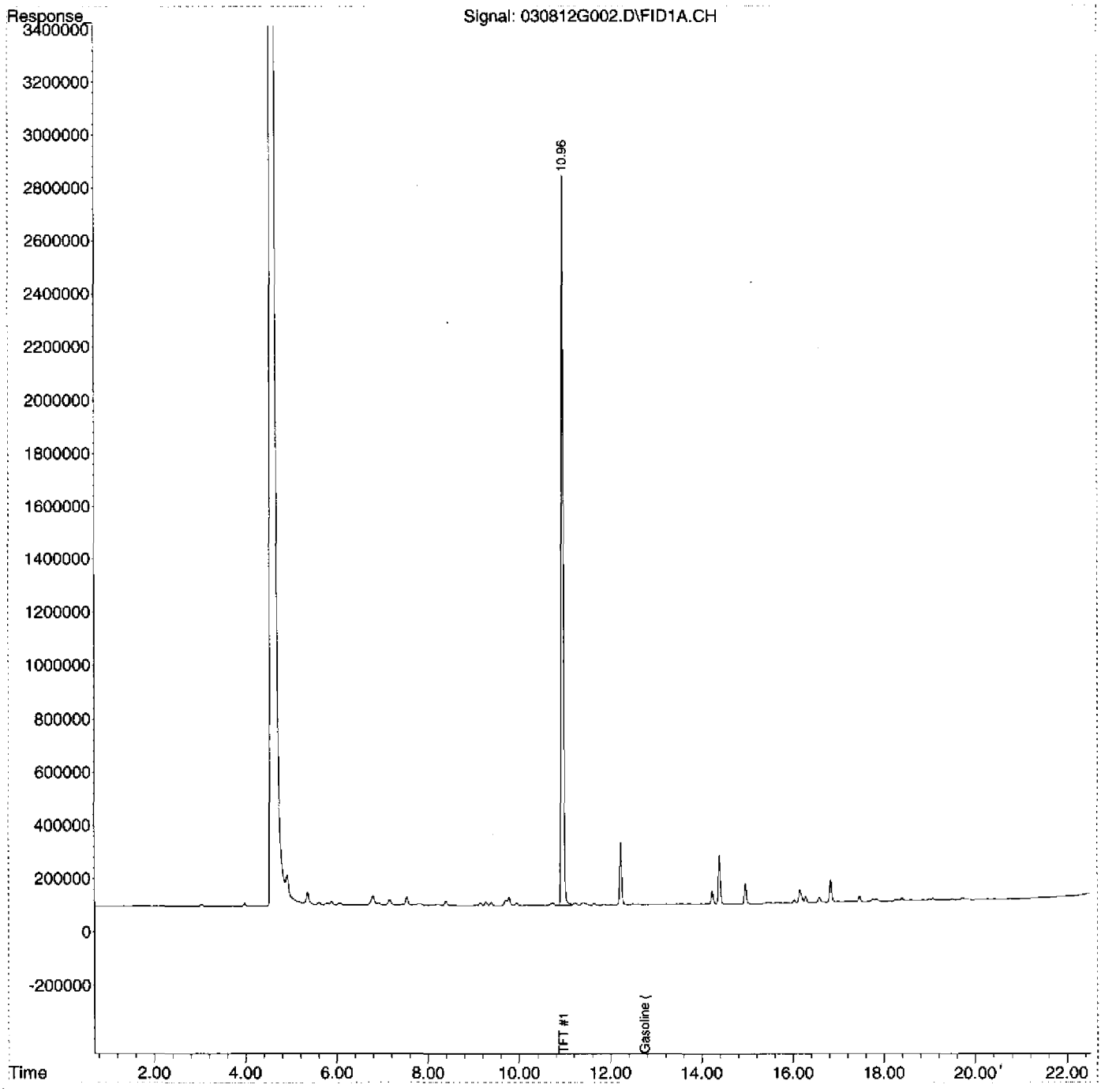
(f)=RT Delta > 1/2 Window (m)=manual int.

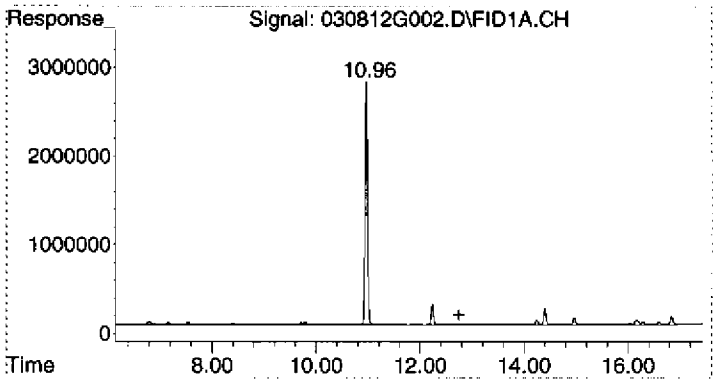
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G002.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 11:22 Operator: YNB
Sample : 2030021-LCV1 Inst : AG6890-7
Misc : 2.5uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 4 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 12:17:26 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 37026985
Conc: 53.15 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G003.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 11:55 Operator: YNB
Sample : B2C0041-BLK1 Inst : AG6890-7
Misc : BLANK WATER Multiplr: 1.00
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 12:36:21 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	97109783	123.901 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 99.12%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	4064616	5.834 ug/L

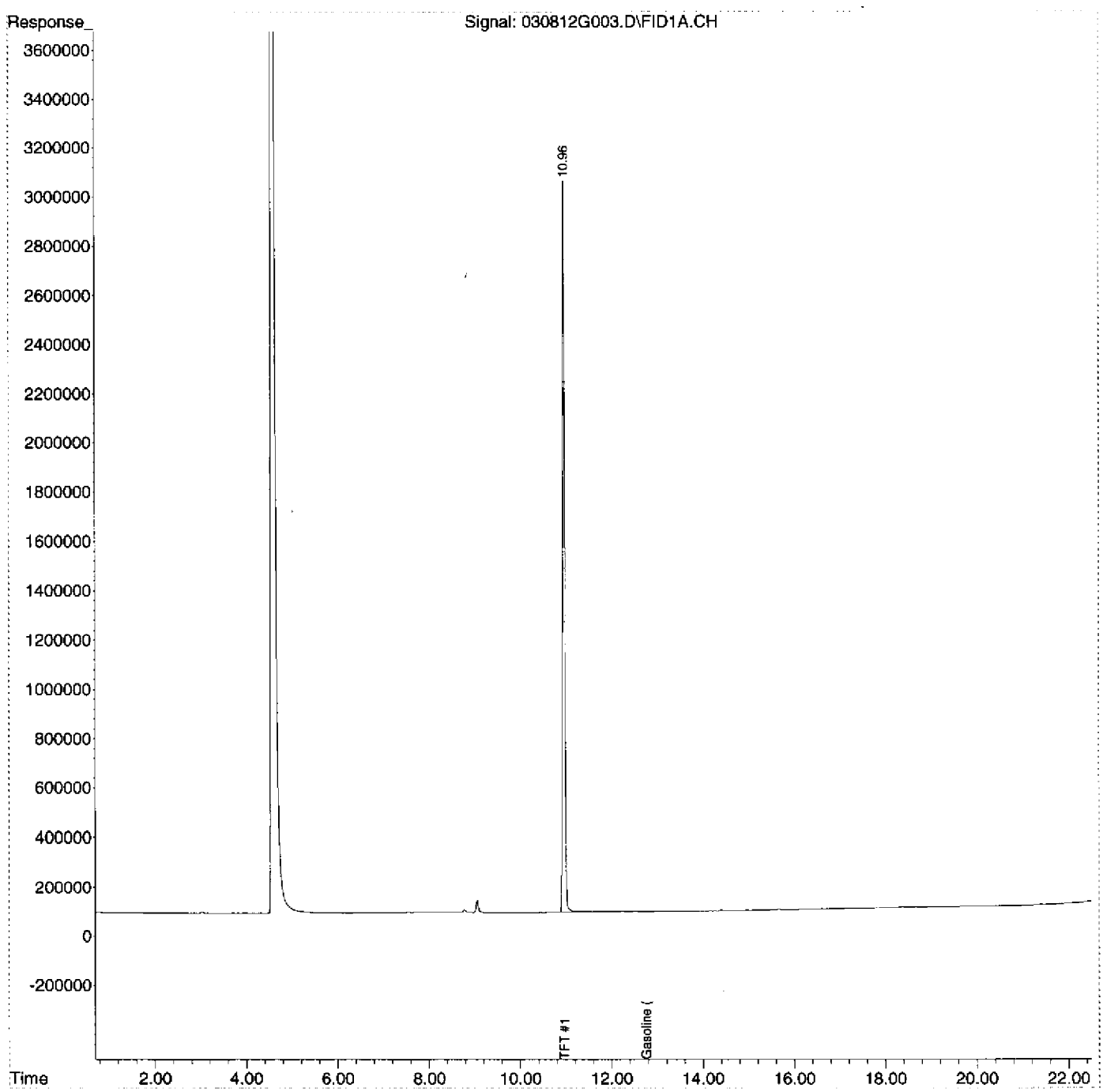
(f)=RT Delta > 1/2 Window (m)=manual int.

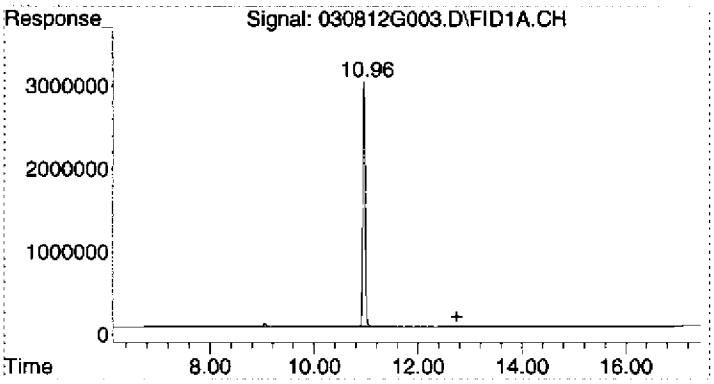
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G003.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 11:55 Operator: YNB
Sample : B2C0041-BLK1 Inst : AG6890-7
Misc : BLANK WATER Multiplr: 1.00
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 12:36:21 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 4064616
Conc: 5.83 ug/L m

Sample Name B2C0041-BS1
Operator YNB
Data File Name 030812G004.D
Date Acquired 3/8/2012 12:27
Instrument Name AG6890-7

Name	Units	Spike	Amount	% Recovery	QC LIMIT	STATUS
Gasoline (TPH) #1	ug/L	500	494.55	98.91%	75-114	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G004.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 12:27 Operator: YNB
Sample : B2C0041-BS1 Inst : AG6890-7
Misc : 25uL ~~0J07001~~ WATER 1J17002 YNR Multiplr: 1.00
ALS Vial : 6 Sample Multiplier: 1 03.16.12

Integration File: EVENTS1.E
Quant Time: Mar 08 13:59:07 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	97153620	123.957 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	99.17%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	344535504	494.552 ug/L

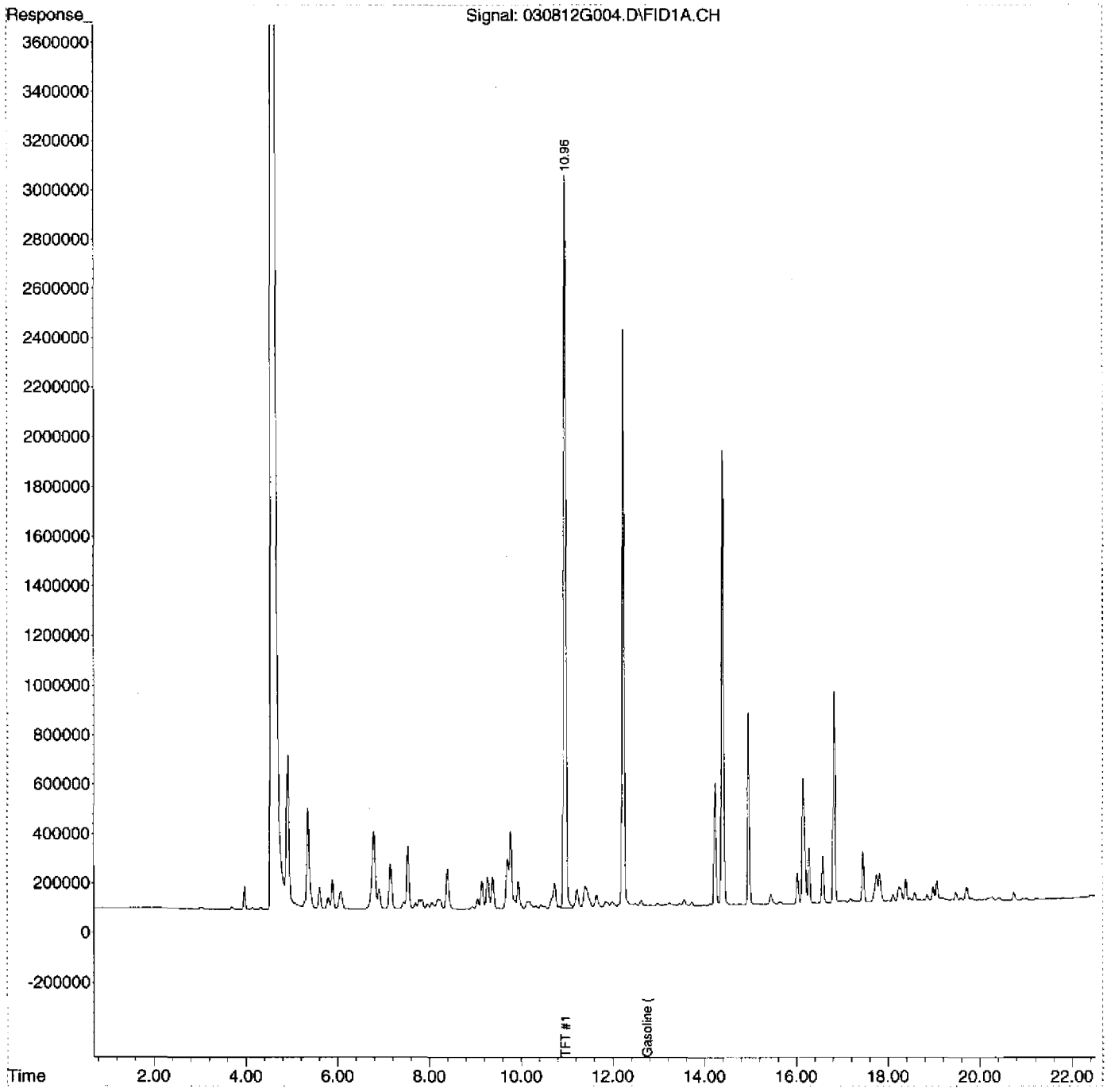
(f)=RT Delta > 1/2 Window (m)=manual int.

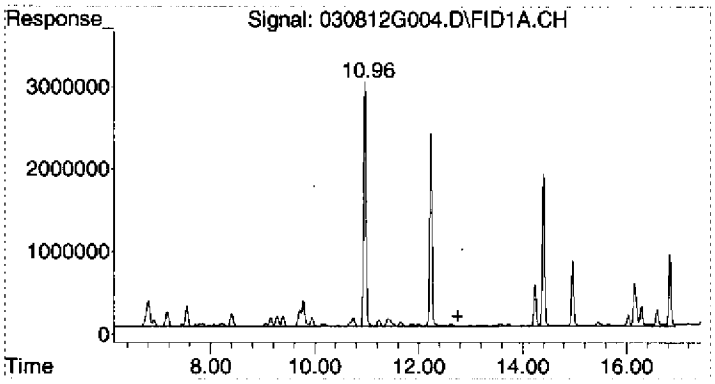
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G004.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 12:27 Operator: YNB
Sample : B2C0041-BS1 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 13:59:07 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 344535504
Conc: 494.55 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G005.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 13:01 Operator: YNB
Sample : 1203018-05 Inst : AG6890-7
Misc : TB50,C, WATER Multiplr: 1.00
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 13:59:48 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	96675687	123.347 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.68%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	3952236	5.673 ug/L

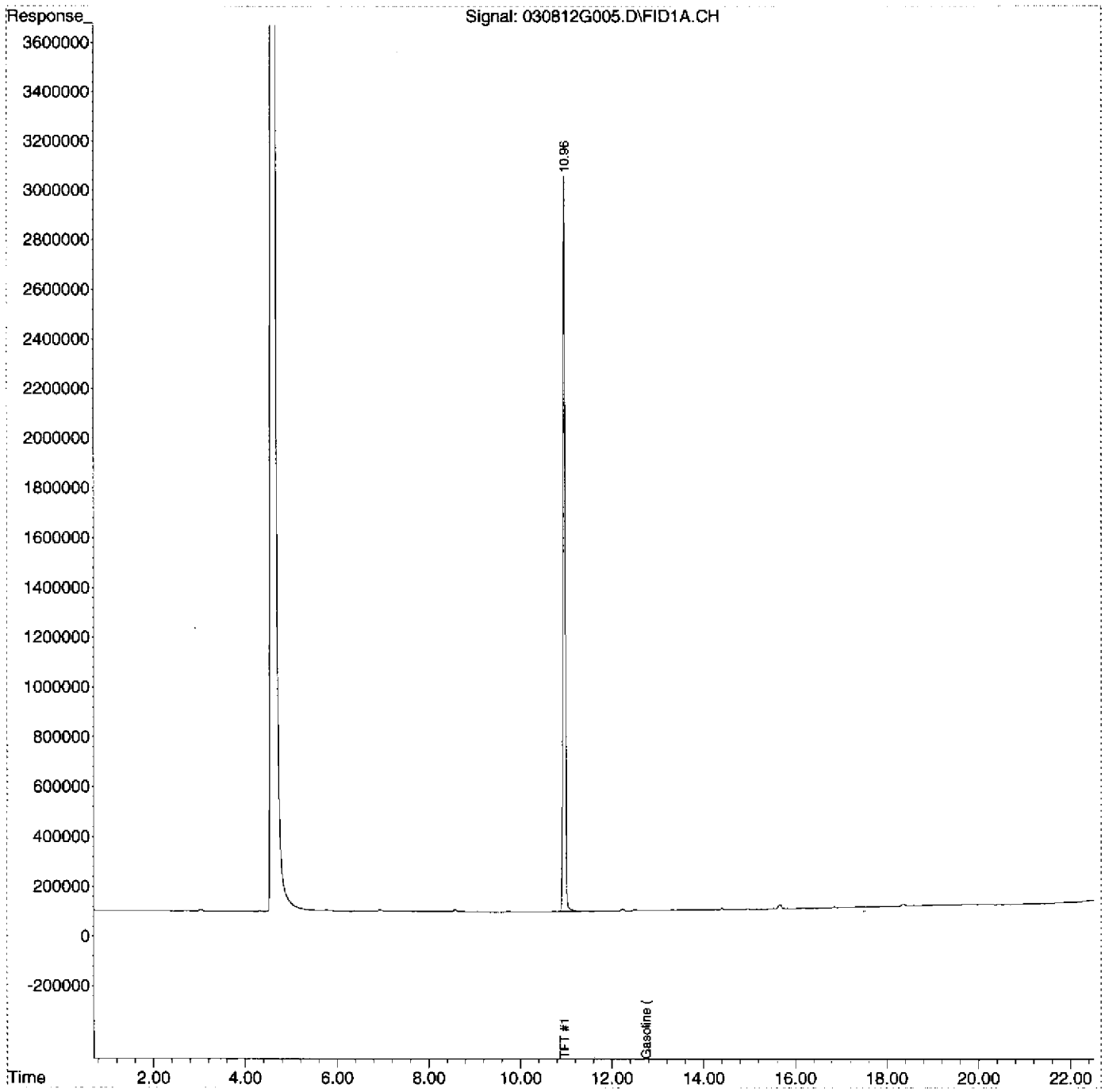
(f)=RT Delta > 1/2 Window (m)=manual int.

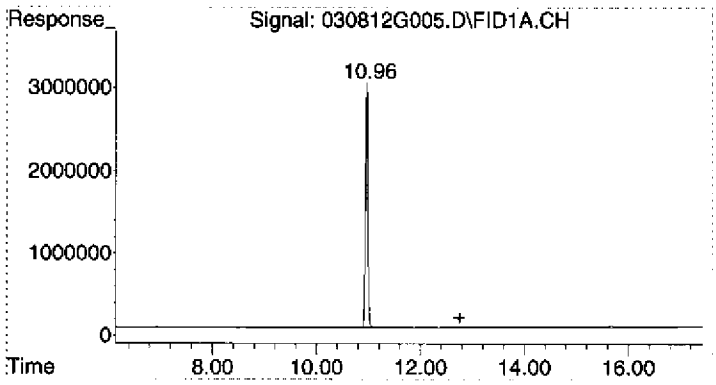
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G005.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 13:01 Operator: YNB
Sample : 1203018-05 Inst : AG6890-7
Misc : TB50,C, WATER Multiplr: 1.00
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 13:59:48 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 3952236
Conc: 5.67 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G006.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 13:33 Operator: YNB
Sample : 1203018-01 Inst : AG6890-7
Misc : FB19,C, WATER Multiplr: 1.00
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 14:00:20 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	95749649	122.166 ug/L
Spiked Amount 125.000	Range 76 - 121	Recovery =	97.73%
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	4804520	6.896 ug/L

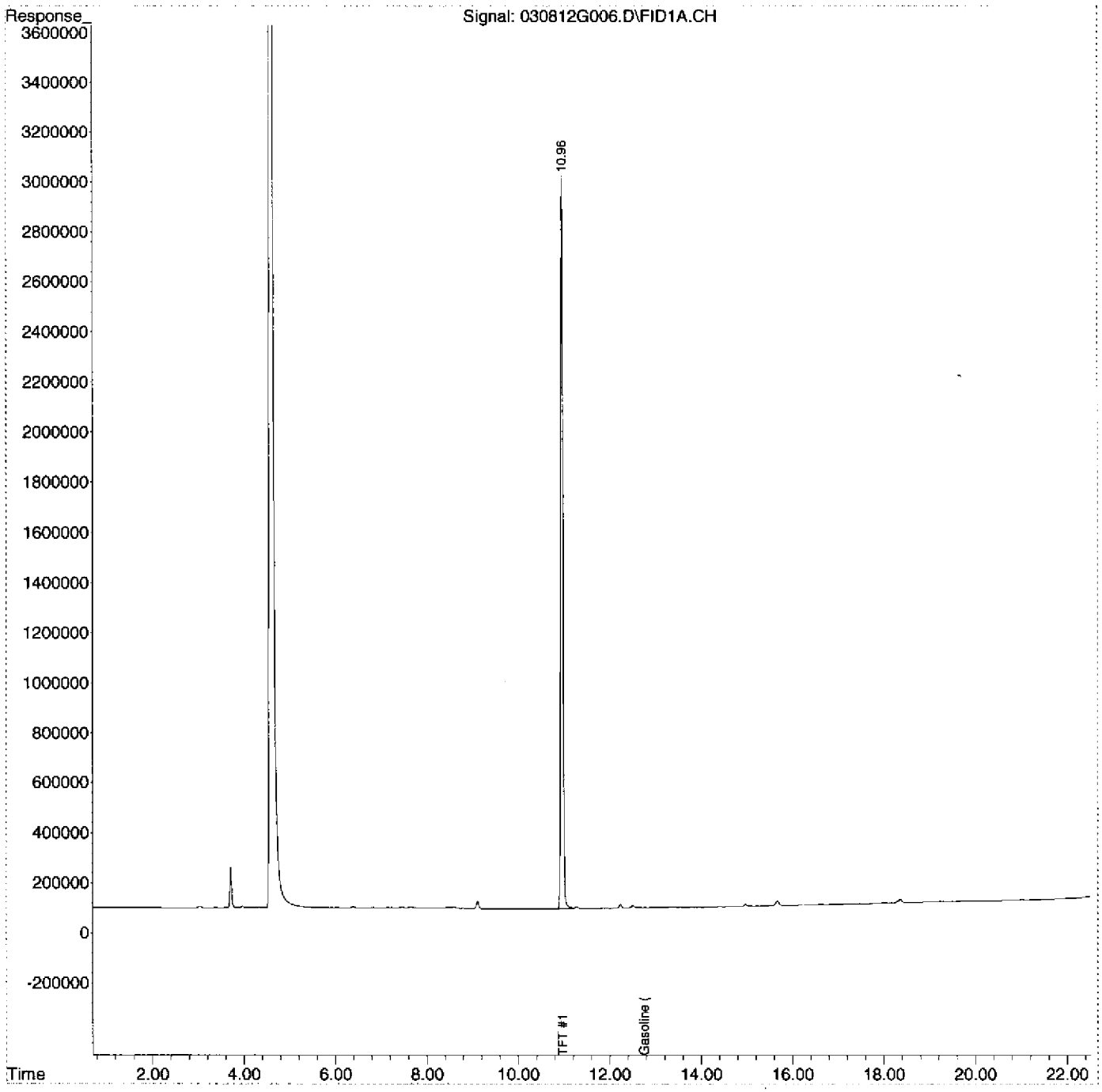
(f)=RT Delta > 1/2 Window (m)=manual int.

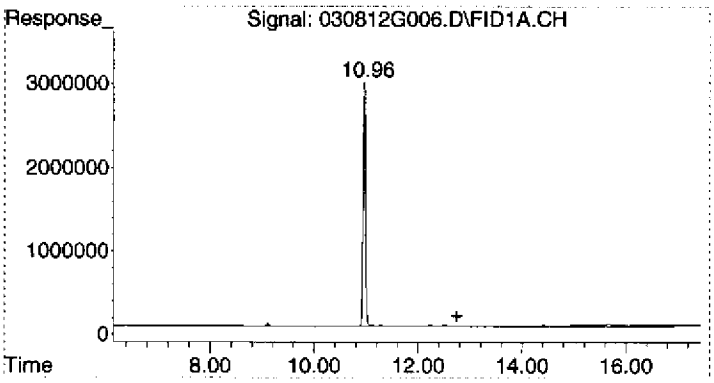
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\030812ARCH\
Data File : 030812G006.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 13:33 Operator: YNB
Sample : 1203018-01 Inst : AG6890-7
Misc : FB19,C, WATER Multiplr: 1.00
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 08 14:00:20 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 4804520
Conc: 6.90 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G007.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 14:05 Operator: YNB
Sample : 1203018-02 Inst : AG6890-7
Misc : HW60,C, WATER Multiplr: 1.00
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:12 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	96499897	123.123 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.50%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	2685407	3.855 ug/L

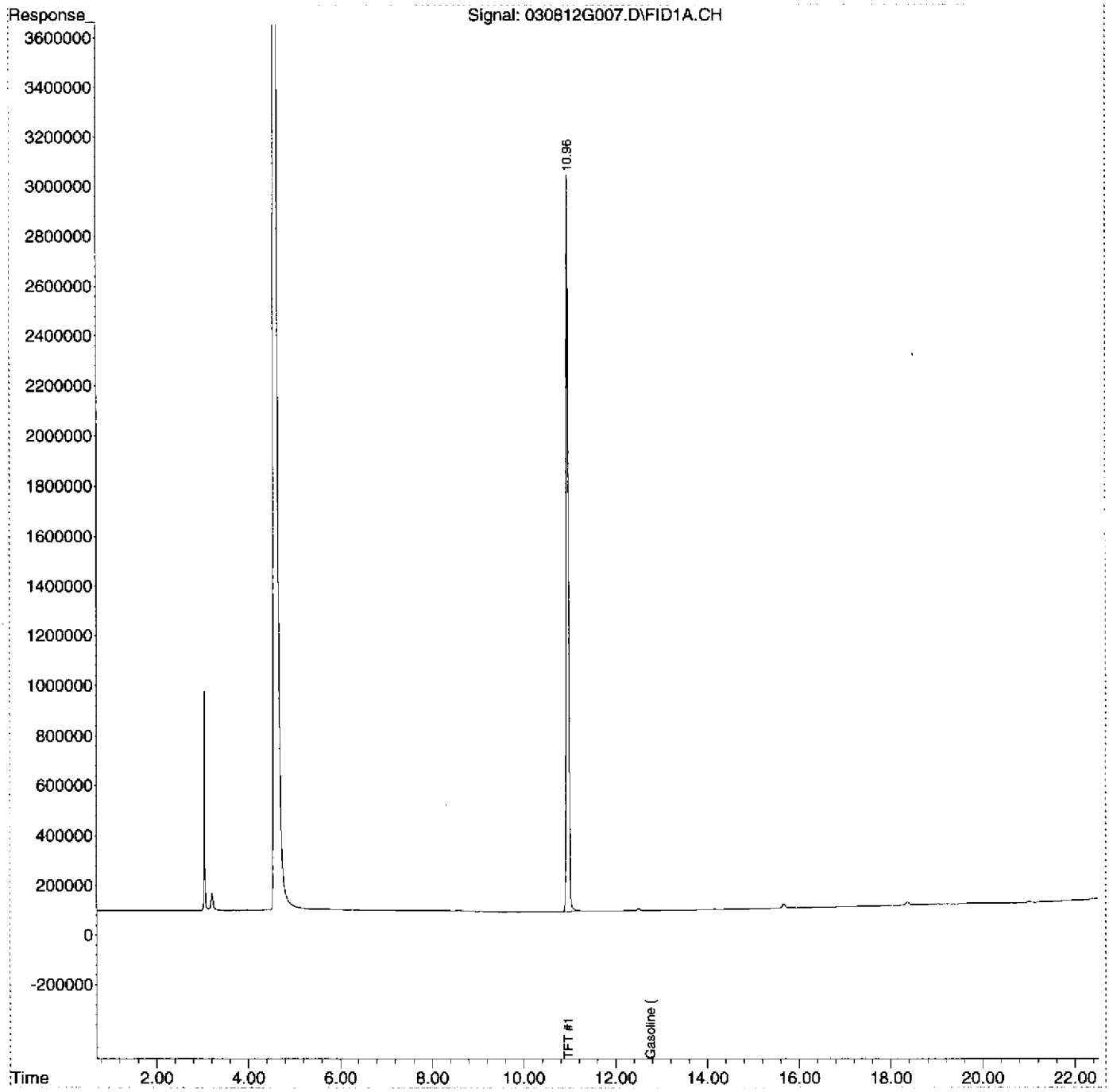
(f)=RT Delta > 1/2 Window (m)=manual int.

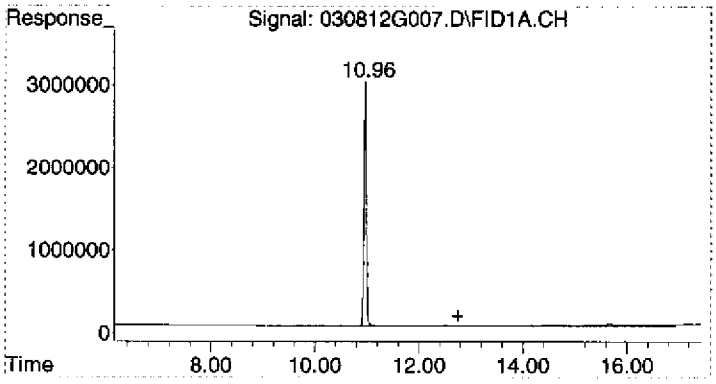
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G007.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 14:05 Operator: YNB
Sample : 1203018-02 Inst : AG6890-7
Misc : HW60,C, WATER Multiplr: 1.00
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:12 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 2685407
Conc: 3.85 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G008.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 14:38 Operator: YNB
Sample : 1203018-03 Inst : AG6890-7
Misc : TB49,C, WATER Multiplr: 1.00
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:19 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	95072154	121.301 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 97.04%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	1874669	2.691 ug/L

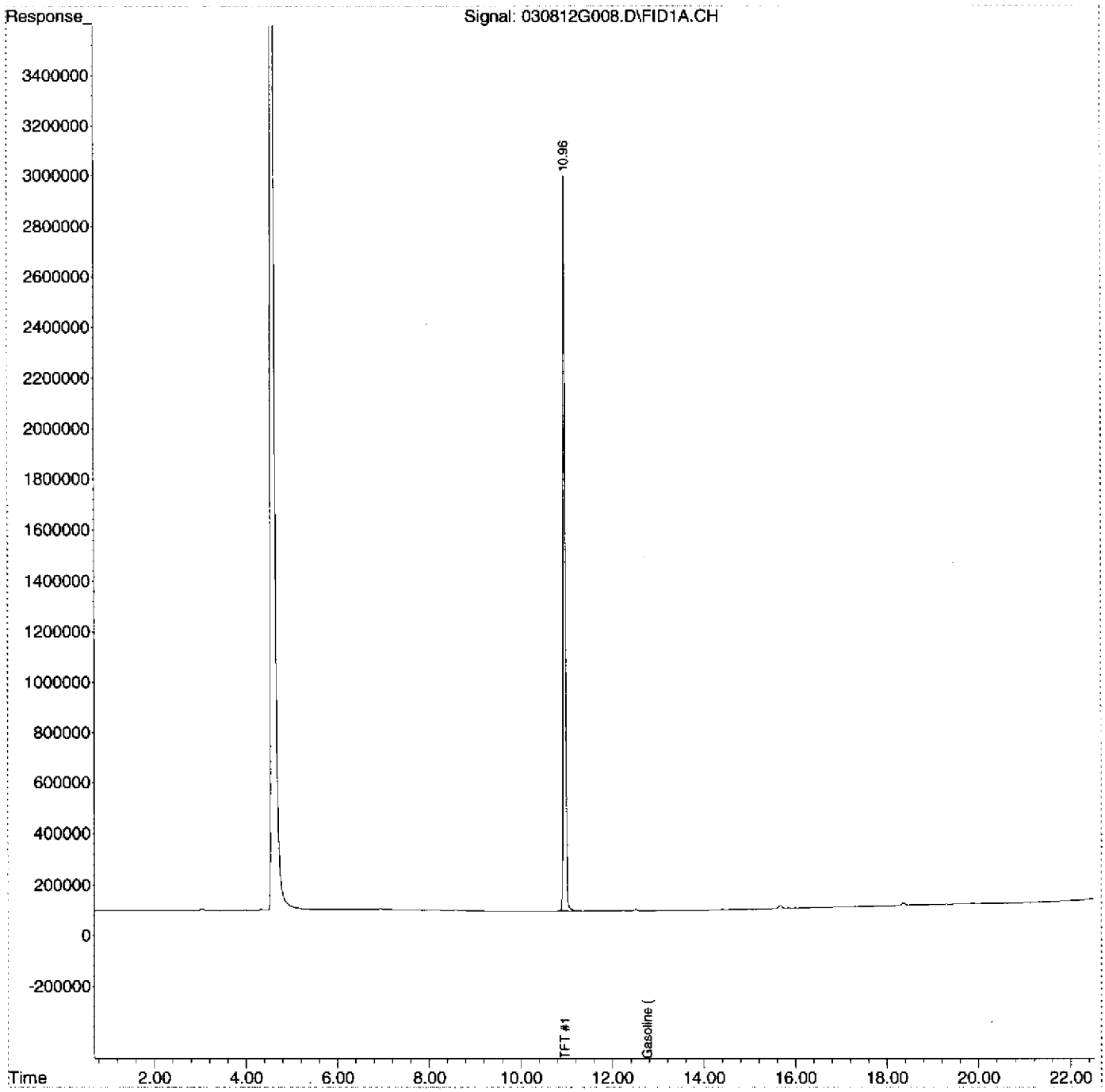
(f)=RT Delta > 1/2 Window (m)=manual int.

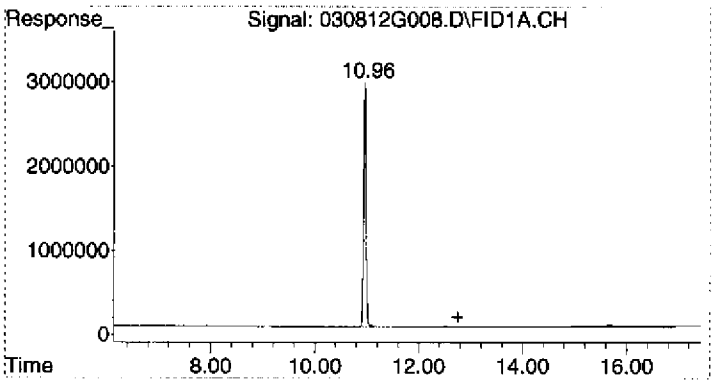
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G008.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 14:38 Operator: YNB
Sample : 1203018-03 Inst : AG6890-7
Misc : TB49,C, WATER Multiplr: 1.00
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:19 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 1874669
Conc: 2.69 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G009.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 15:11 Operator: YNB
Sample : 1203018-04 Inst : AG6890-7
Misc : HW56,I, WATER Multiplr: 1.00
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:25 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	96466364	123.080 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.46%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	1656158	2.377 ug/L

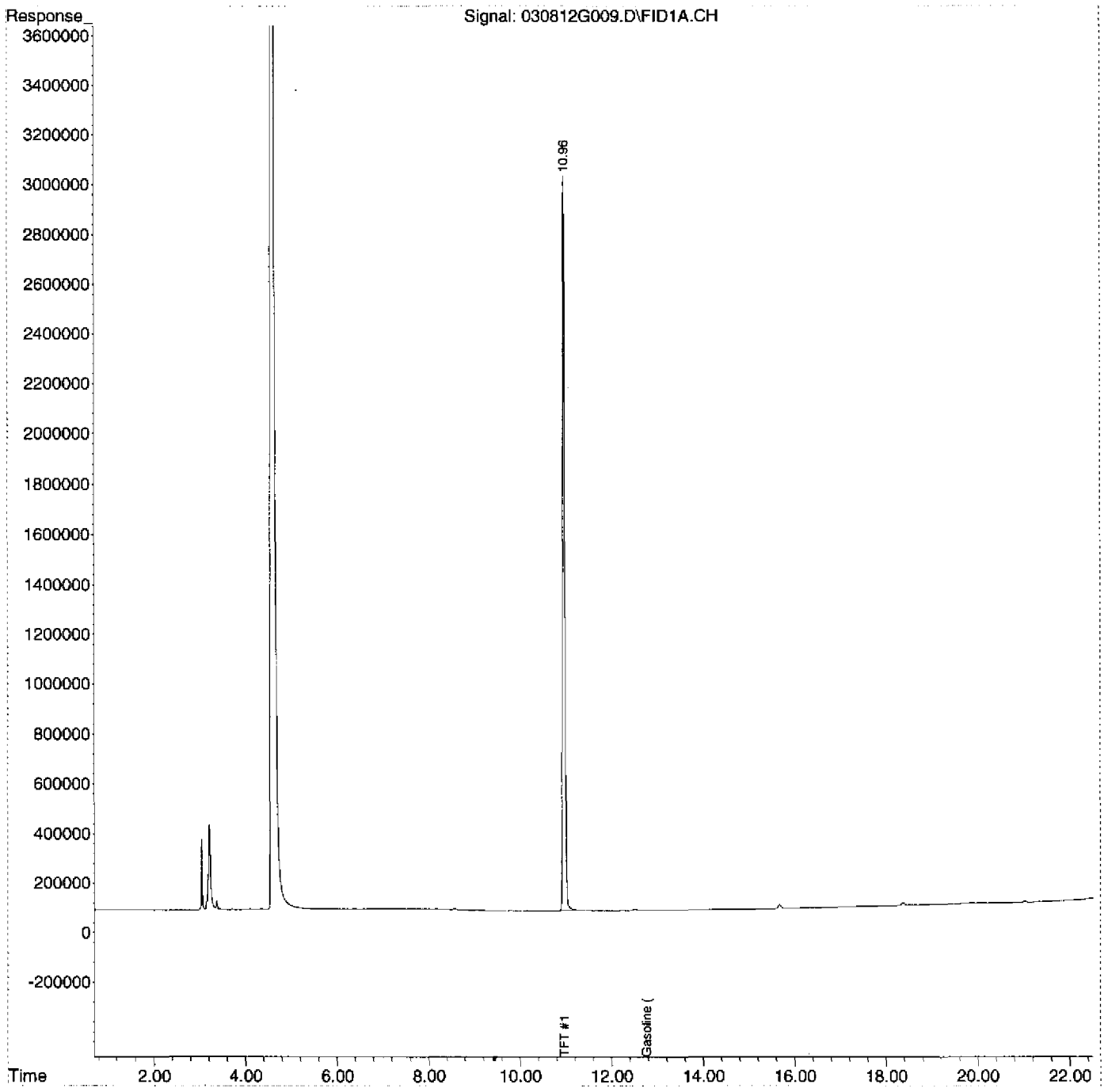
(f)=RT Delta > 1/2 Window (m)=manual int.

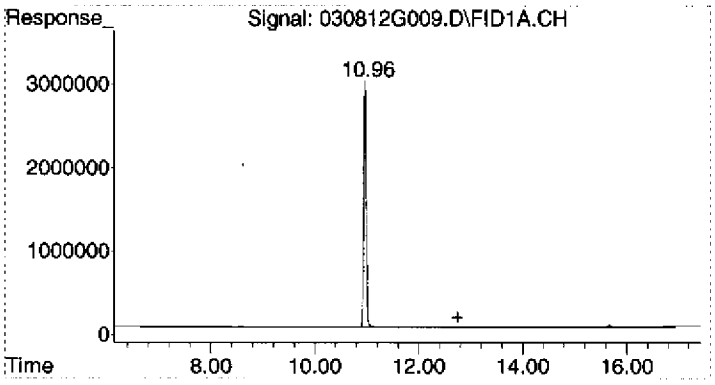
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G009.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 15:11 Operator: YNB
Sample : 1203018-04 Inst : AG6890-7
Misc : HW56,I, WATER Multiplr: 1.00
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:25 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 1656158
Conc: 2.38 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G010.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 15:43 Operator: YNB
Sample : B2C0041-MS1 Inst : AG6890-7
Misc : HW56,J, WATER SPIKE Multiplr: 1.00
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:31 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	100061868	127.668 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 102.13%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	404370348	580.440 ug/L 116%

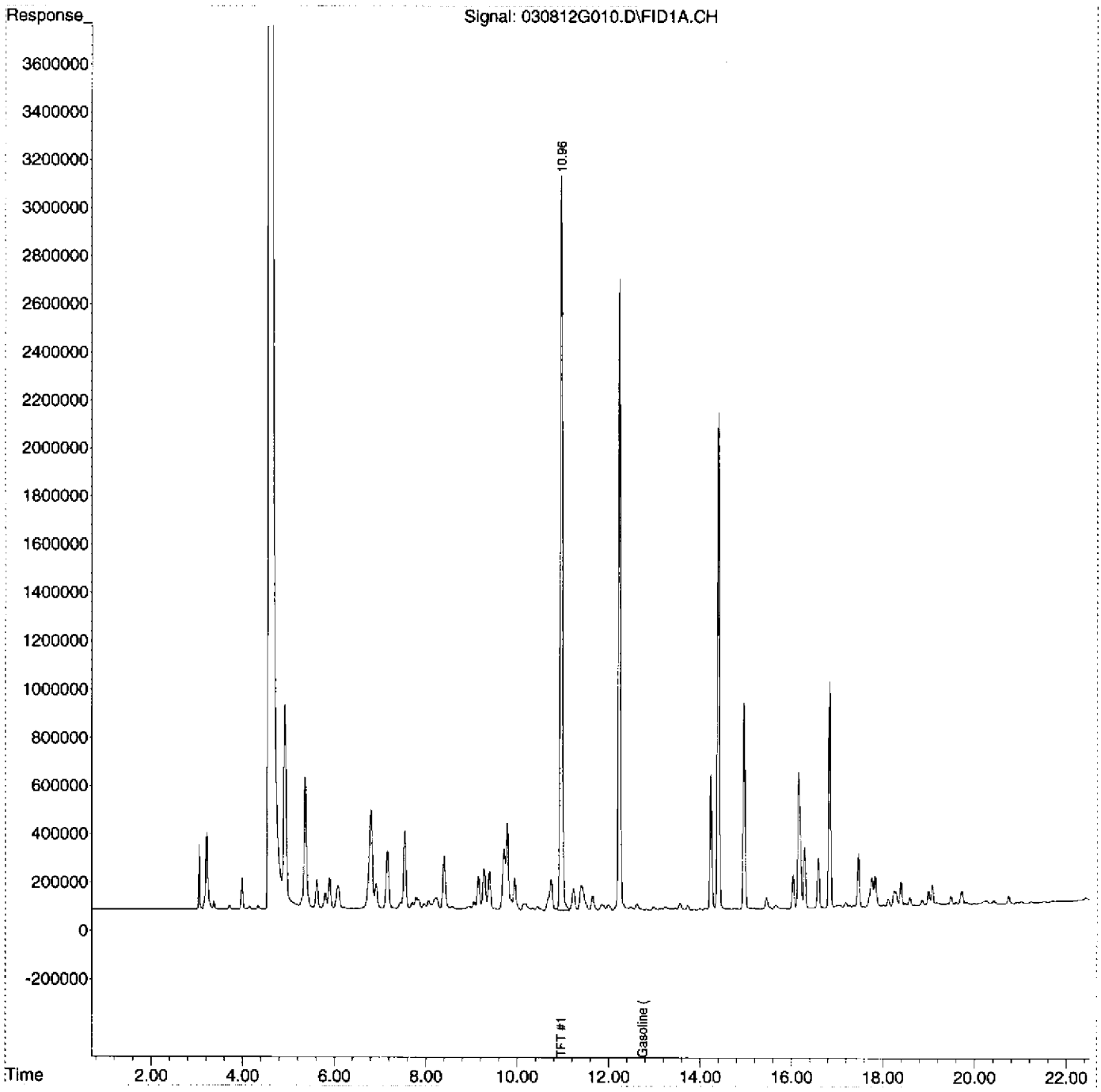
(f)=RT Delta > 1/2 Window (m)=manual int.

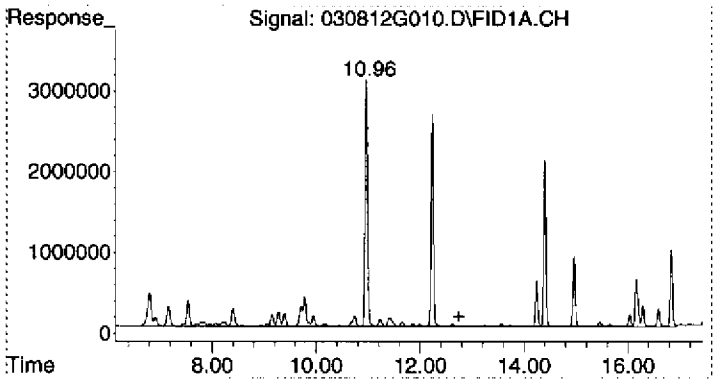
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G010.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 15:43 Operator: YNB
Sample : B2C0041-MS1 Inst : AG6890-7
Misc : HW56,J, WATER SPIKE Multiplr: 1.00
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:31 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 404370348
Conc: 580.44 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G011.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 16:16 Operator: YNB
Sample : B2C0041-MSD1 Inst : AG6890-7
Misc : HW56,H, WATER SPIKE Multiplr: 1.00
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:37 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	99740689	127.258 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 101.81%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	427746364	613.994 ug/L

123% ↑ 7% diff.

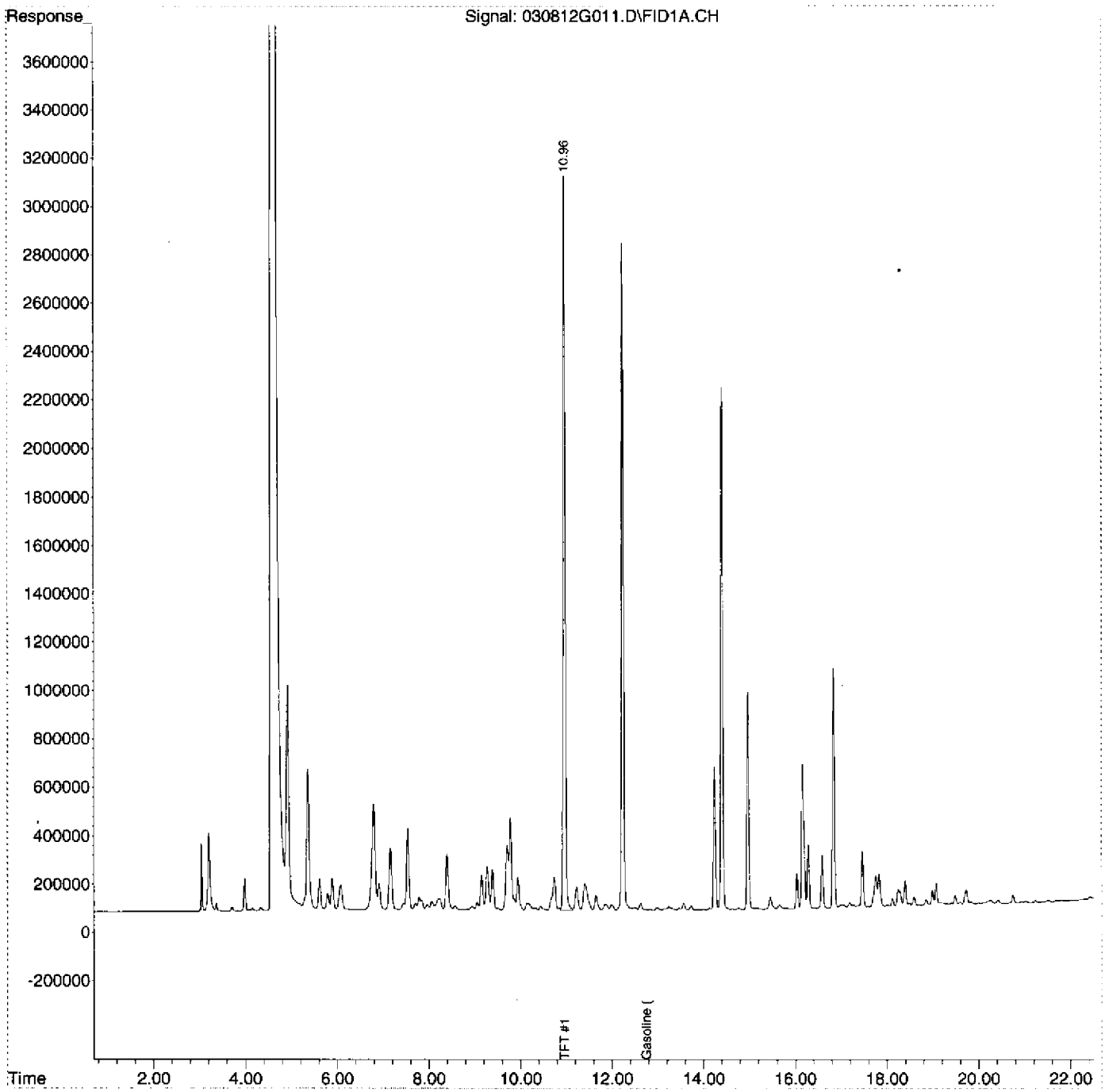
(f)=RT Delta > 1/2 Window (m)=manual int.

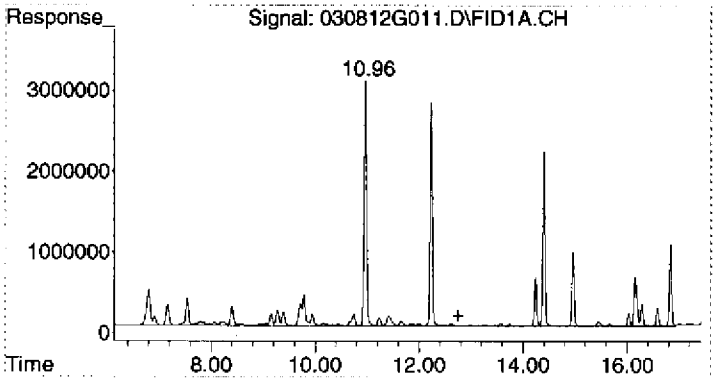
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G011.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 16:16 Operator: YNB
Sample : B2C0041-MSD1 Inst : AG6890-7
Misc : HW56,H, WATER SPIKE Multiplr: 1.00
ALS Vial : 13 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:37 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 427746364
Conc: 613.99 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G013.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 17:21 Operator: YNB
Sample : 1203020-05 Inst : AG6890-7
Misc : TB51,C, WATER Multiplr: 1.00
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:49 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	91742951	117.054 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 93.64%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	37454493	53.763 ug/L

single peak

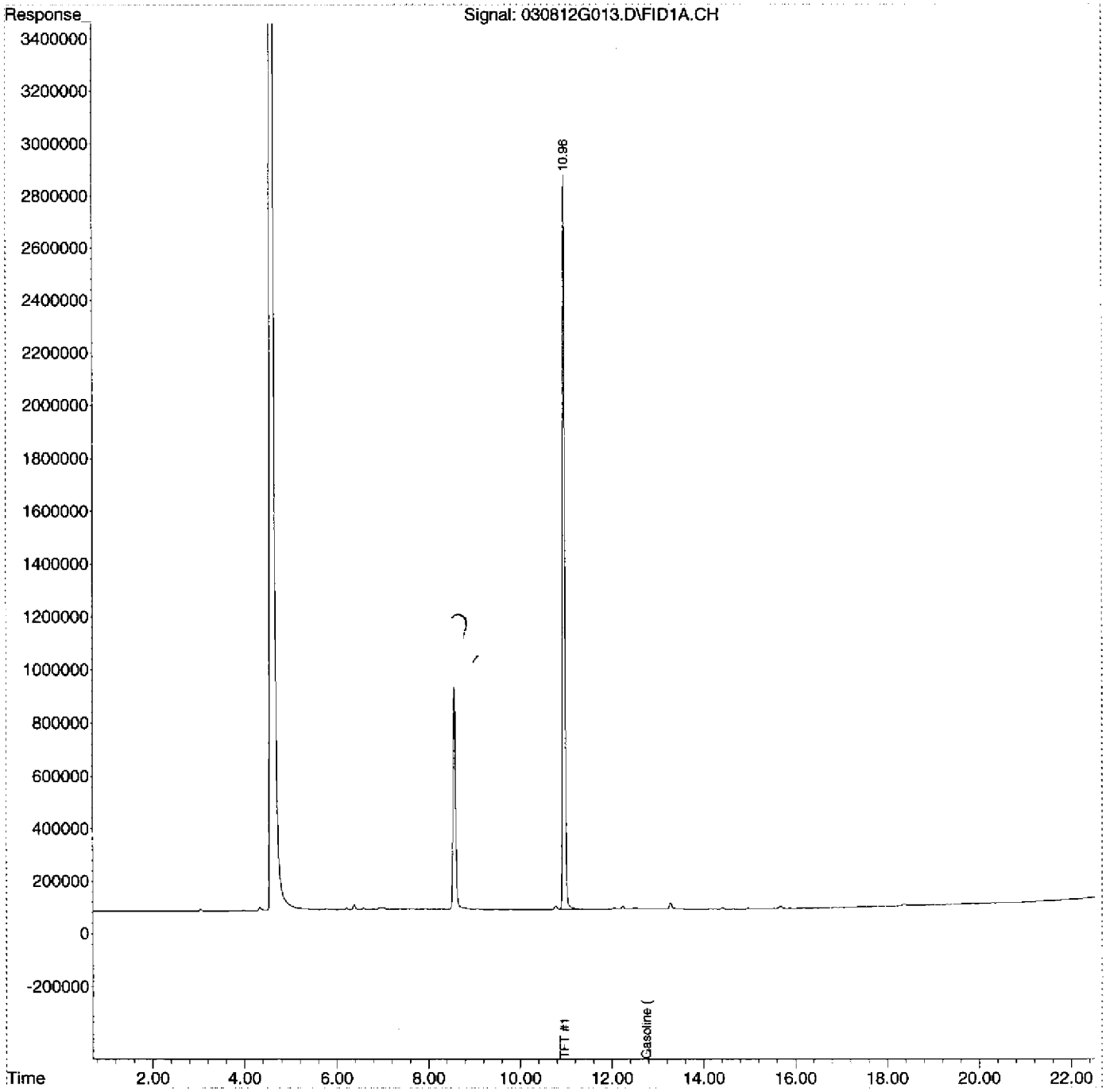
(f)=RT Delta > 1/2 Window (m)=manual int.

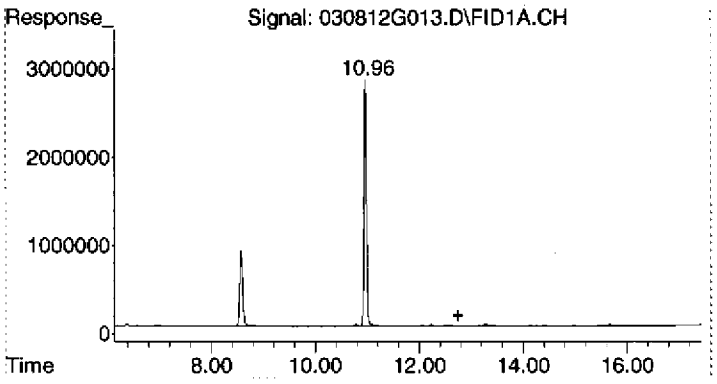
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G013.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 17:21 Operator: YNB
Sample : 1203020-05 Inst : AG6890-7
Misc : TB51,C, WATER Multiplr: 1.00
ALS Vial : 15 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:49 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 37454493
Conc: 53.76 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G014.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 17:53 Operator: YNB
Sample : 1203020-01 Inst : AG6890-7
Misc : FB20,C, WATER Multiplr: 1.00
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:55 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	96466155	123.080 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.46%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	3871188	5.557 ug/L

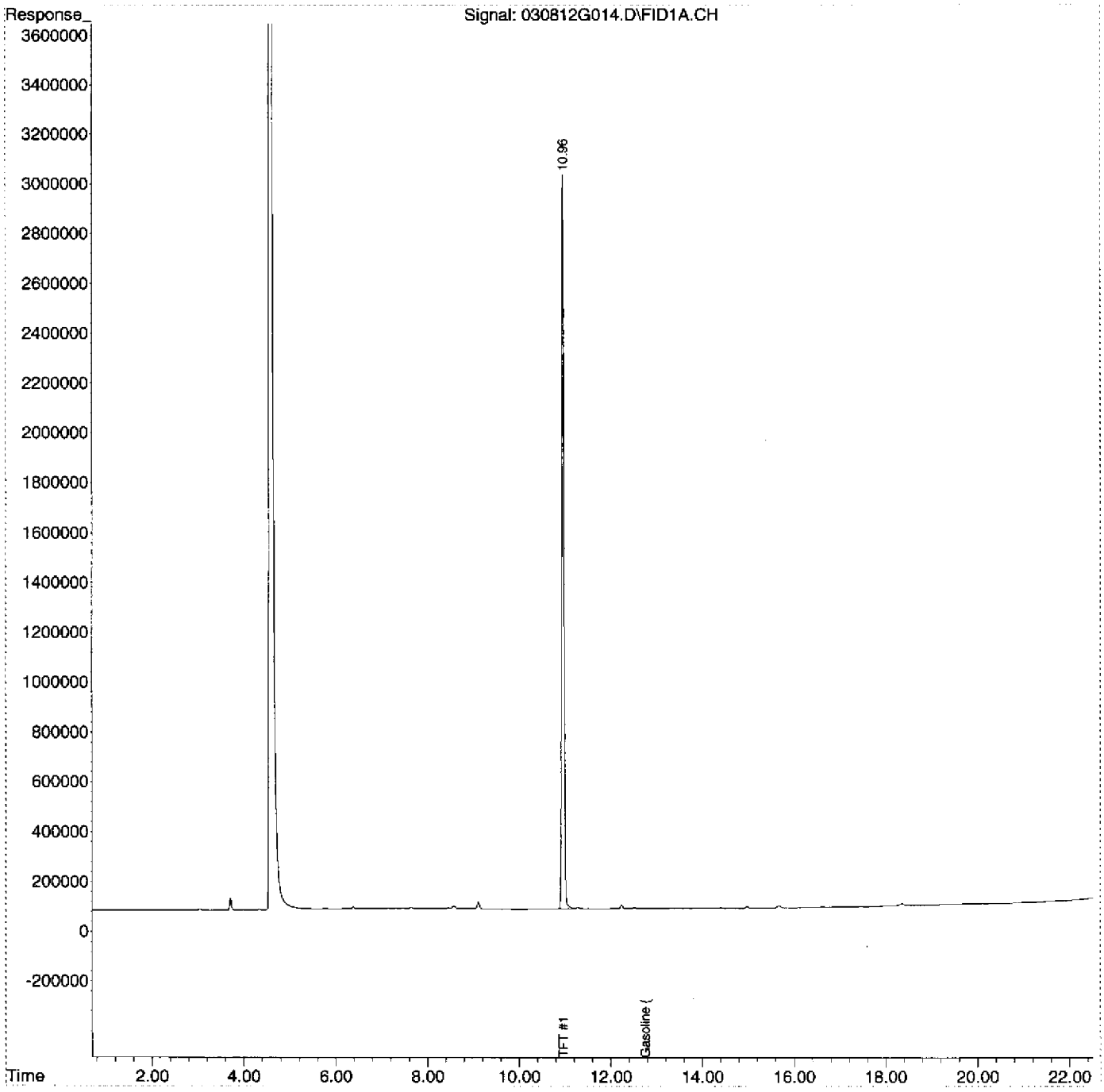
(f)=RT Delta > 1/2 Window (m)=manual int.

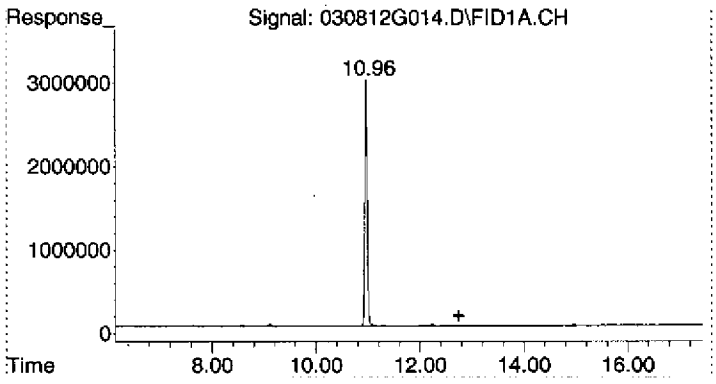
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G014.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 17:53 Operator: YNB
Sample : 1203020-01 Inst : AG6890-7
Misc : FB20,C, WATER Multiplr: 1.00
ALS Vial : 16 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:55 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.:	12.750 min
Delta R.T.:	0.000 min
Response:	3871188
Conc:	5.56 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G015.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 18:26 Operator: YNB
Sample : 1203020-02 Inst : AG6890-7
Misc : HW61,C, WATER Multiplr: 1.00
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:27:01 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	96363229	122.948 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.36%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	1667901	2.394 ug/L

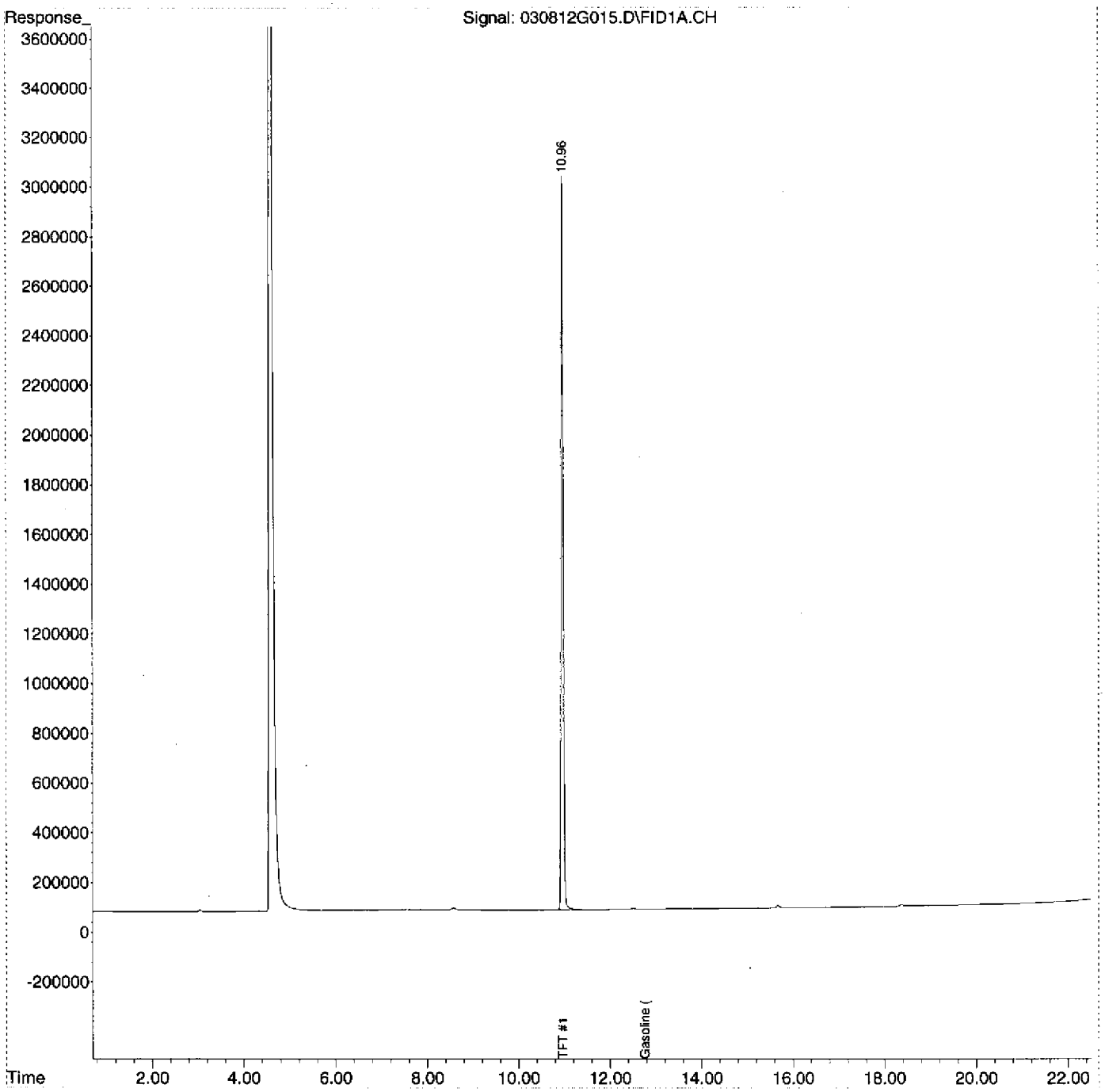
(f)=RT Delta > 1/2 Window (m)=manual int.

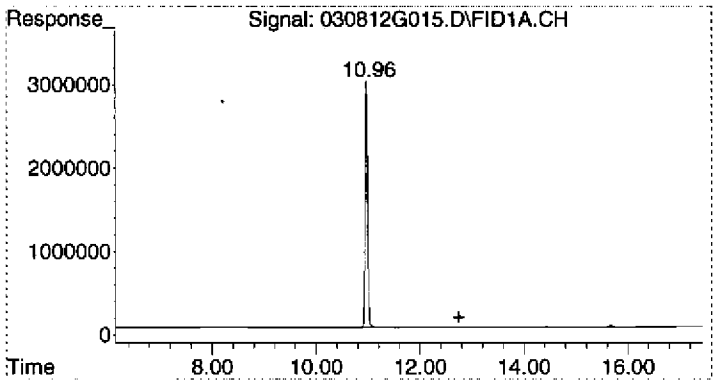
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G015.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 18:26 Operator: YNB
Sample : 1203020-02 Inst : AG6890-7
Misc : HW61,C, WATER Multiplr: 1.00
ALS Vial : 17 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:27:01 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 1667901
Conc: 2.39 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G016.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 18:58 Operator: YNB
Sample : 1203020-03 Inst : AG6890-7
Misc : HW61-P,C, WATER Multiplr: 1.00
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:27:07 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	90620521	115.621 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 92.50%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	5260133	7.550 ug/L

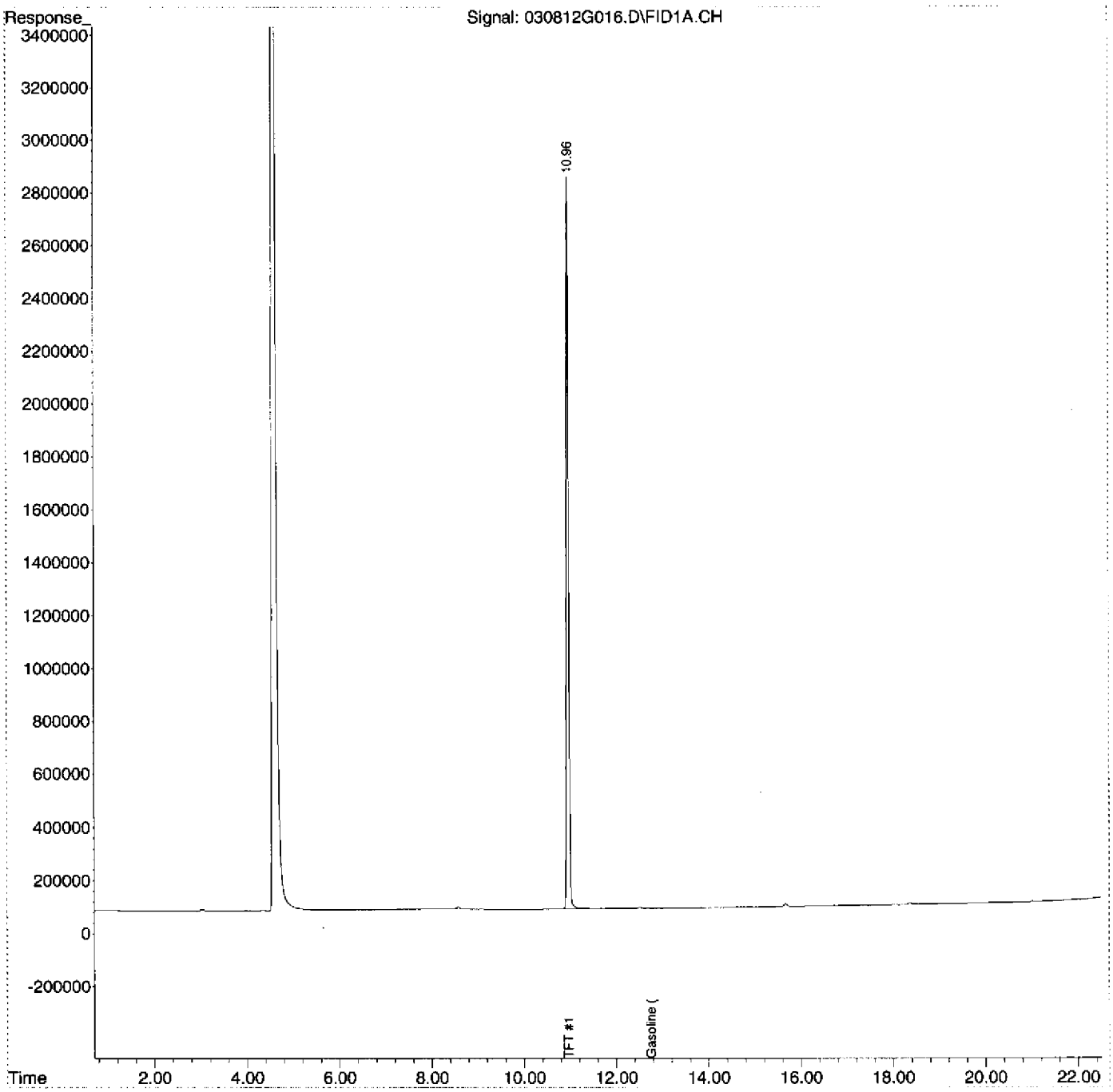
(f)=RT Delta > 1/2 Window (m)=manual int.

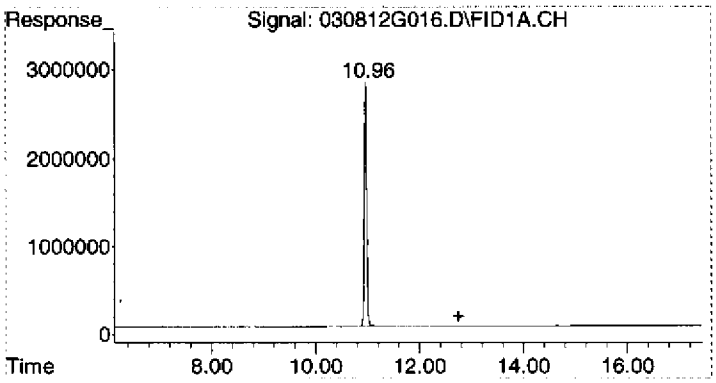
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G016.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 18:58 Operator: YNB
Sample : 1203020-03 Inst : AG6890-7
Misc : HW61-P,C, WATER Multiplr: 1.00
ALS Vial : 18 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:27:07 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 5260133
Conc: 7.55 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G017.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 19:31 Operator: YNB
Sample : 1203020-04 Inst : AG6890-7
Misc : HW61z,C, WATER Multiplr: 1.00
ALS Vial : 19 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:27:12 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	96056305	122.557 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.05%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	1811803	2.601 ug/L

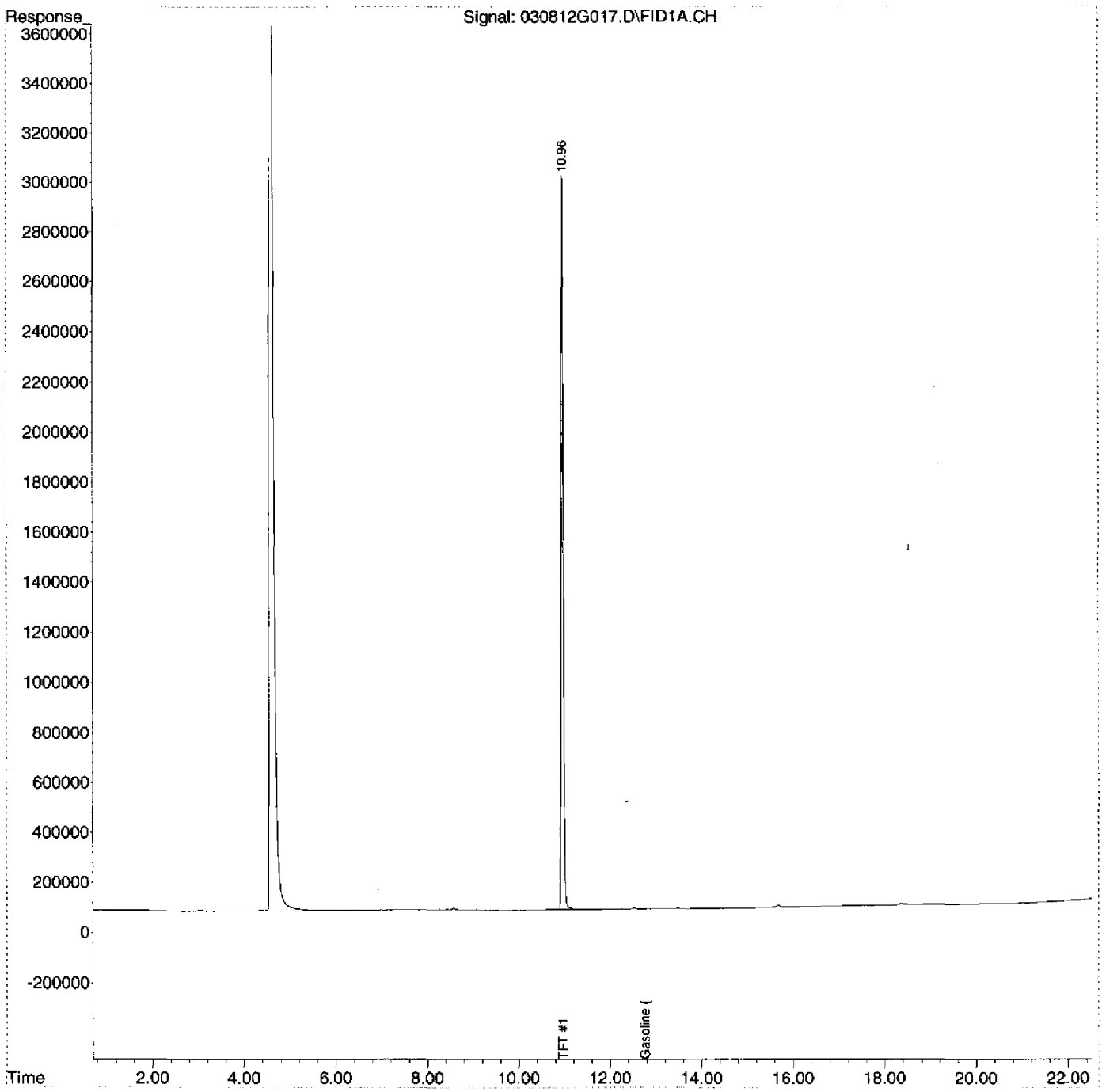
(f)=RT Delta > 1/2 Window (m)=manual int.

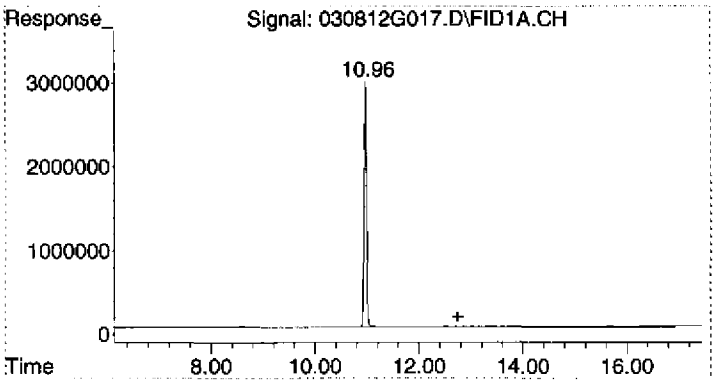
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G017.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 19:31 Operator: YNB
Sample : 1203020-04 Inst : AG6890-7
Misc : HW61z,C, WATER Multiplr: 1.00
ALS Vial : 19 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:27:12 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 1811803
Conc: 2.60 ug/L m

Evaluate Continuing Calibration Report

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G018.D
Signal(s) : FID1A.CH
Acq On : 09 Mar 2012 15:41 Operator: YNB
Sample : 2030021-CCV5 Inst : AG6890-7
Misc : 25uL ~~010700I~~ WATER 1/17002 Multiplr: 1.00
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 12 08:03:50 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Min. RRF : 0.000 Min. Rel. Area : 70% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 130%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	HRM Gasoline (TPH) #1	696.662	649.469 E3	6.8	95	0.00
2	S TFT #1	783.769	749.961 E3	4.3	96	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ZQC
YNB
03/12/12

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G018.D
Signal(s) : FID1A.CH
Acq On : 09 Mar 2012 15:41 Operator: YNB
Sample : 2030021-CCV5 Inst : AG6890-7
Misc : 25uL ~~0J07~~001 WATER 1j12002 Multiplr: 1.00
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 12 08:03:50 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	93745146	119.608 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 95.69%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	324734598	466.129 ug/L

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

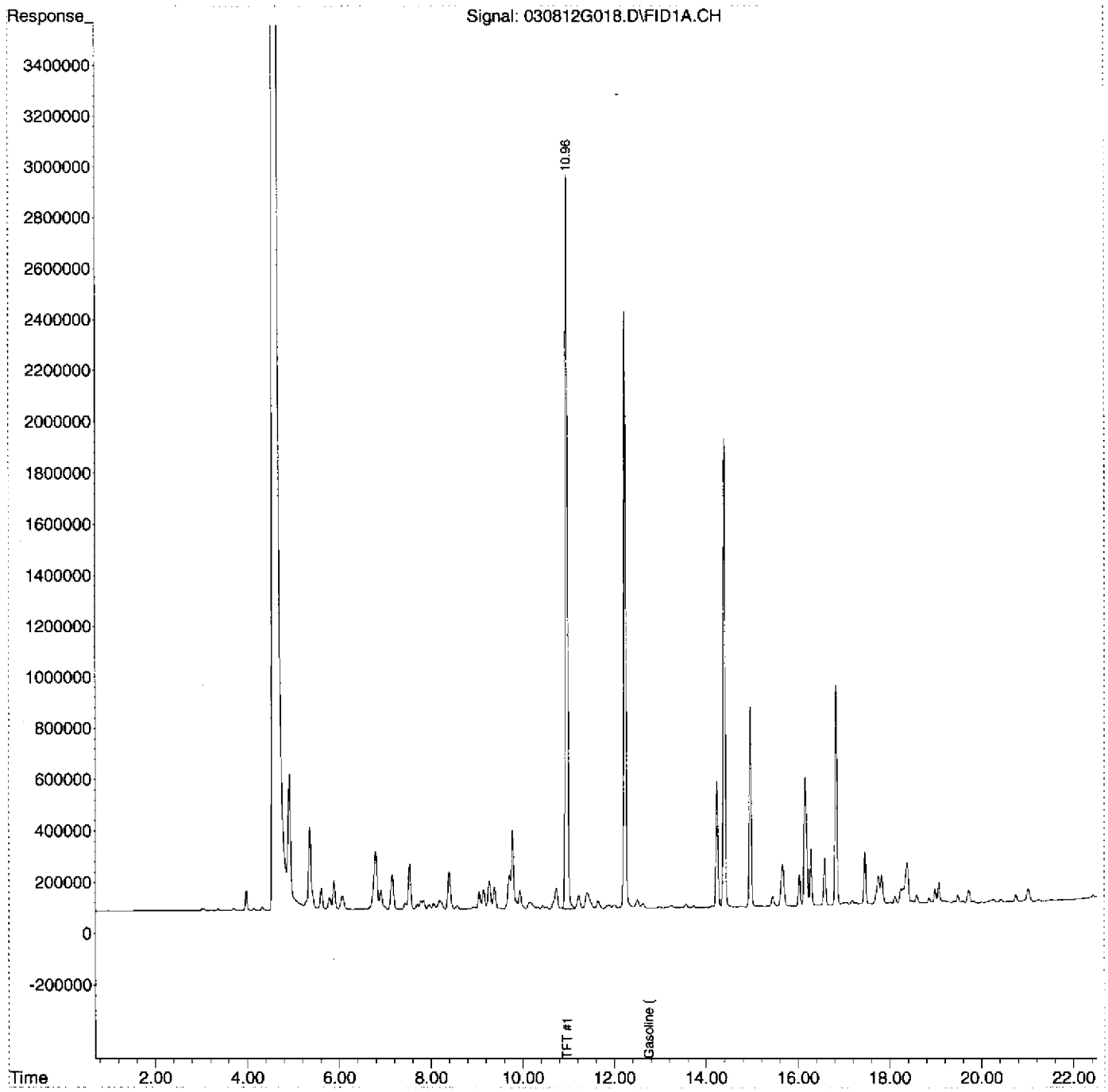
Run later due to malfunction of autosampler
YNB 03.16.12

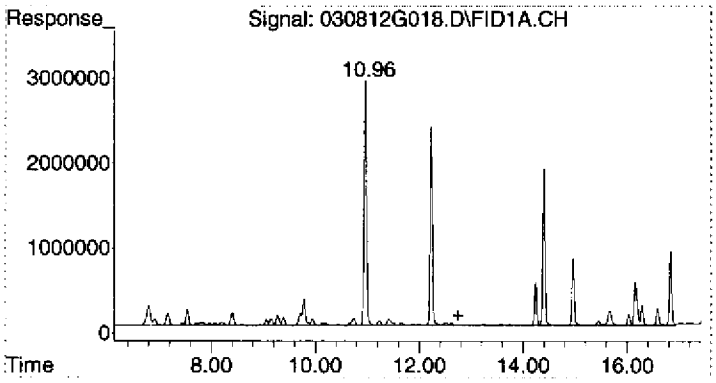
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G018.D
Signal(s) : FID1A.CH
Acq On : 09 Mar 2012 15:41 Operator: YNB
Sample : 2030021-CCV5 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 20 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 12 08:03:50 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 324734598
Conc: 466.13 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G019.D
Signal(s) : FID1A.CH
Acq On : 09 Mar 2012 16:14 Operator: YNB
Sample : 2030021-CCV6 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 12 08:04:30 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	95998599	122.483 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 97.99%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	406397421	583.350 ug/L

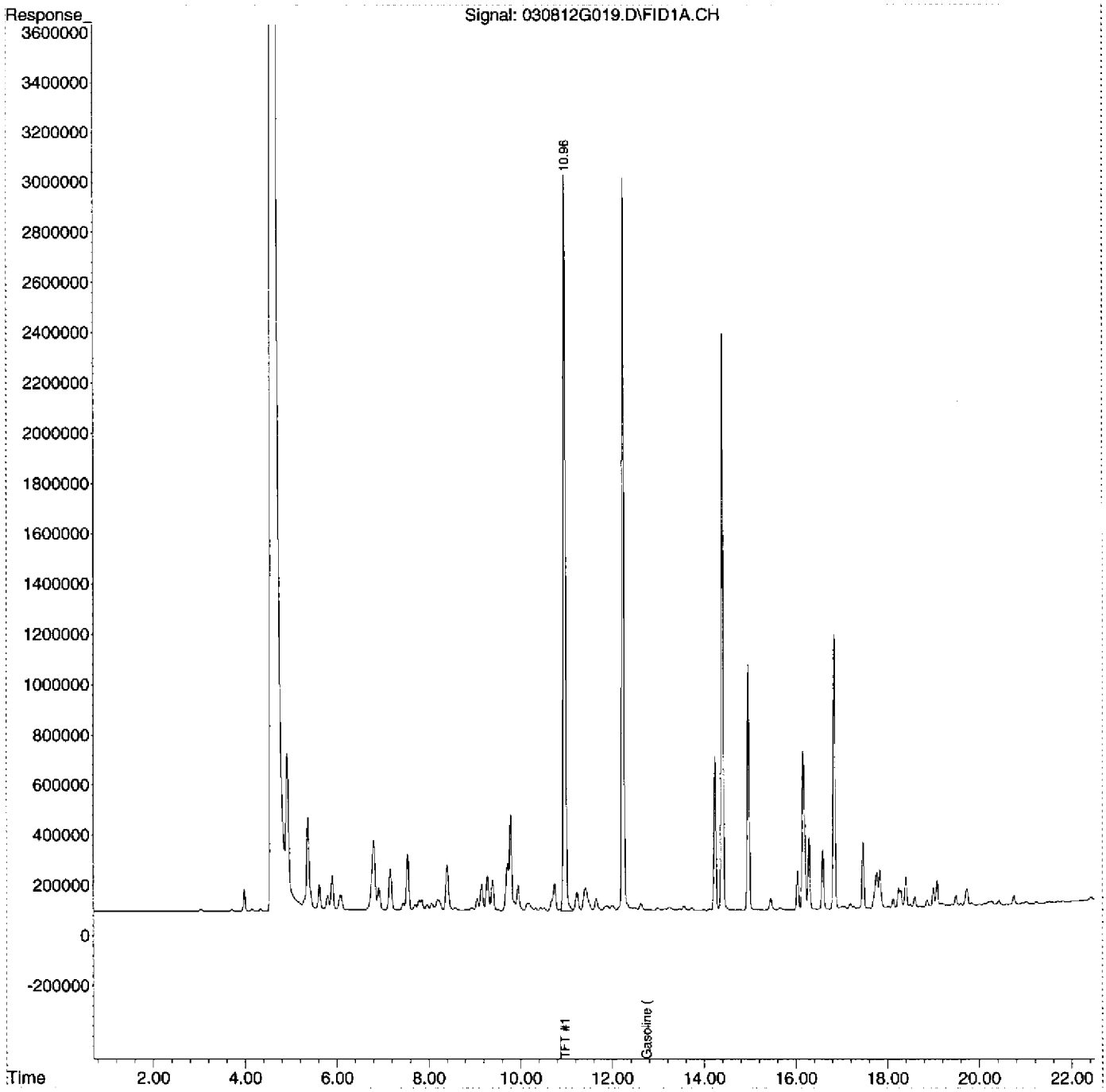
(f)=RT Delta > 1/2 Window (m)=manual int.

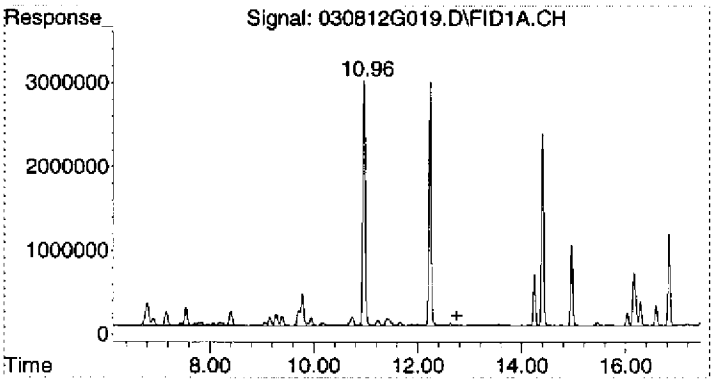
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G019.D
Signal(s) : FID1A.CH
Acq On : 09 Mar 2012 16:14 Operator: YNB
Sample : 2030021-CCV6 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 21 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 12 08:04:30 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 406397421
Conc: 583.35 ug/L m

SDG: R33911 / 12067A
Instrument: A6 68 90-7
Analysis Date: 03.13.12

SAMPLE DATA

G:\USER\ESAT\1 Organic Group\Forms\DataPackageSeparators.doc

Injection Log

Operator: YNB
Directory: C:\MSDCHEM\1\2012\DATA\031312ARCH\

Vial	File Name	Mult	Sample Info	Misc Info	Date Acquired
1	031312G001.D	0	2030030-CCV1	25uL 1J17002 WATER	13 Mar 2012 8:23
2	031312G002.D	0	2030030-LCV1	2.5uL 1J17002 WATER	13 Mar 2012 8:55
3	031312G003.D	0	B2C0060-BLK1	BLANK WATER	13 Mar 2012 9:28
4	031312G004.D	0	B2C0060-BS1	25uL 1J17002 WATER	13 Mar 2012 10:00
5	031312G005.D	0	1203024-01	FB21,A, WATER	13 Mar 2012 10:33
6	031312G006.D	0	1203024-03	TB52,A, WATER	13 Mar 2012 11:05
7	031312G007.D	0	1203024-02	HW50,A, WATER	13 Mar 2012 11:37
8	031312G008.D	0	B2C0041-MS2	HW56,L, WATER SPIKE	13 Mar 2012 12:10
9	031312G009.D	0	B2C0041-MSD2	HW56,G, WATER SPIKE	13 Mar 2012 12:42
10	031312G010.D	0	2030030-SB1	SB 02/20/12, WATER SPIKE	13 Mar 2012 13:15
11	031312G011.D	0	2030030-CCV2	25uL 1J17002 WATER	13 Mar 2012 13:47
12	031312G012.D	0	2030030-CCV3	25uL 1J17002 WATER	13 Mar 2012 14:20

GC QA-QC Check Report

Daily Calibration File : C:\MSDChem\1\2012\data\031312ARCH\031312G001.D
Time Acquired : 13 Mar 2012 8:23

File	Sample	Surrogate Recovery %	Internal Standard Responses
031312G003.D	B2C0060-BLK1	95	
031312G004.D	B2C0060-BS1	96	
031312G005.D	1203024-01	95	
031312G006.D	1203024-03	95	
031312G007.D	1203024-02	96	
031312G008.D	B2C0041-MS2	97	
031312G009.D	B2C0041-MSD2	98	
031312G010.D	2030030-SB1	94	SB 02/20/12

(fails) - fails 12hr time check * - fails criteria

Created: Wed Mar 14 10:57:51 2012 AG6890-7

Response Factor Report AG6890-7

Method Path : C:\MSDCHEM\1\2012\METHOD\
Method File : 012012GS.M
Title : GC TPH Method
Last Update : Mon Jan 23 13:58:52 2012
Response Via : Initial Calibration

Calibration Files
G50 =012012G006.D G100 =012012G007.D G500 =012012G008.D
G1K =012012G009.D G2K =012012G010.D

	Compound	G50	G100	G500	G1K	G2K	Avg	%RSD
1)	HRM Gasoline (TPH) #1	7.572	6.960	6.804	6.756	6.741	6.967 E5	5.02
2)	S TFT #1	7.627	7.796	7.772	7.879	8.113	7.838 E5	2.28

(#) = Out of Range

Evaluate Continuing Calibration Report

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G001.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 8:23 Operator: YNB
Sample : 2030030-CCV1 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 1 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 08:50:07 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Min. RRF : 0.000 Min. Rel. Area : 70% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 130%

	Compound	AvgRF	CCRF		%Dev	Area%	Dev(Min)
1	HRM Gasoline (TPH) #1	696.662	693.848	E3	0.4	102	0.00
2	S TFT #1	783.769	768.943	E3	1.9	99	0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G001.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 8:23 Operator: YNB
Sample : 2030030-CCV1 Inst : AG6890-7
Misc : 25uL ~~0J07001~~ WATER 1J17002 Multiplr: 1.00
ALS Vial : 1 Sample Multiplier: 1

YNB 03.16.12

Integration File: EVENTS1.E
Quant Time: Mar 13 08:49:52 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	96117905	122.635 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 98.11%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	346923896	497.980 ug/L

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

$\frac{96117905}{783800} = 122.631$

98.1%

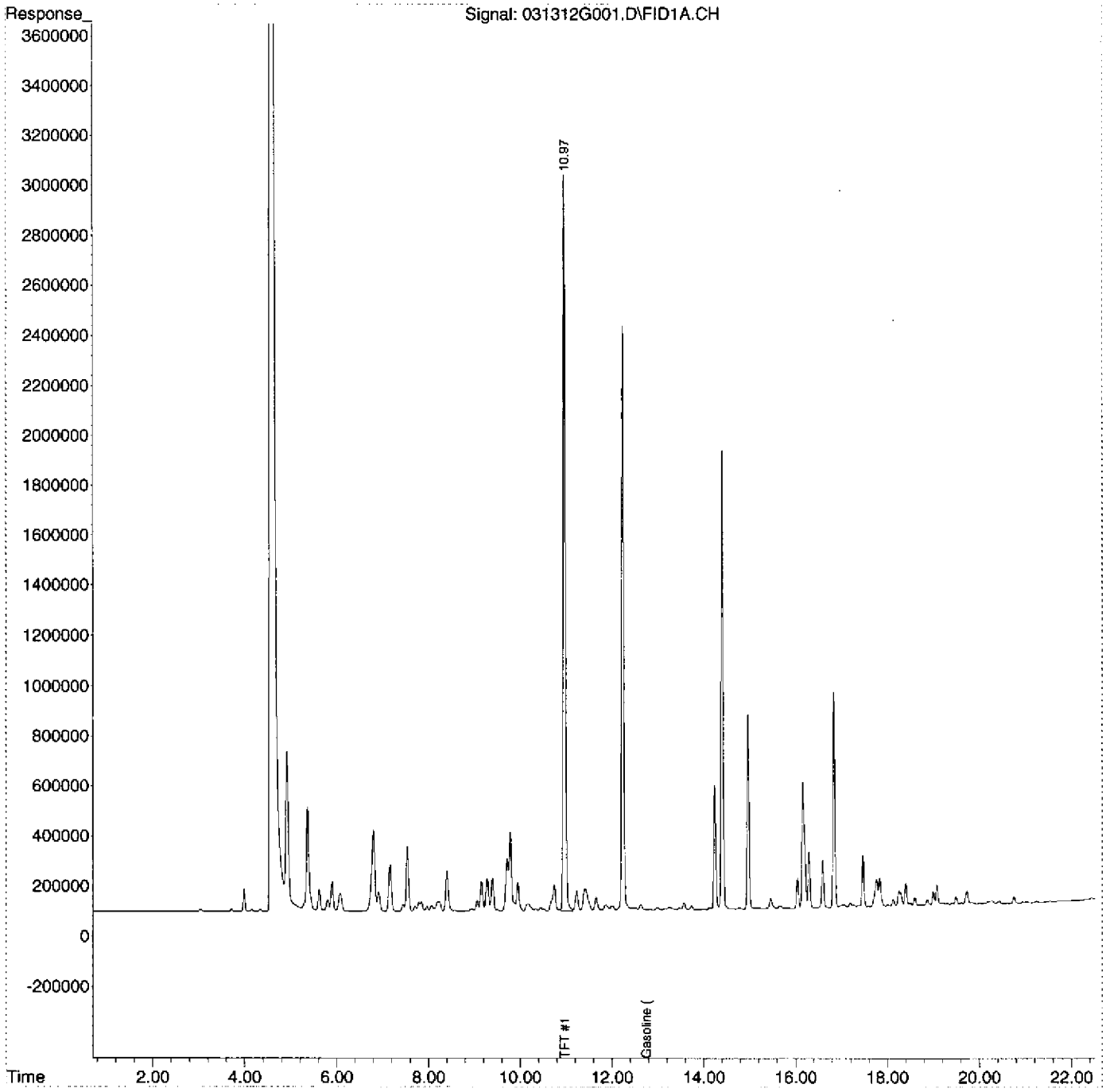
YNB 03 13 12

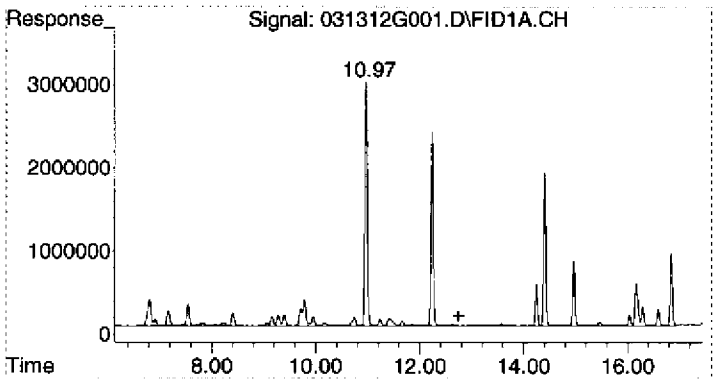
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G001.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 8:23 Operator: YNB
Sample : 2030030-CCV1 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 1 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 08:49:52 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 346923896
Conc: 497.98 ug/L m

Sample Name 2030030-LCV1
Operator YNB
Data File Name 031312G002.D
Date Acquired 3/13/2012 8:55
Instrument Name AG6890-7

Name	Units	Spike	Amount	% Recovery	QC LIMIT
Gasoline (TPH) #1	ug/L	50.00	56.25	112.50%	60-140

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G002.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 8:55 Operator: YNB
Sample : 2030030-LCV1 Inst : AG6890-7
Misc : 2.5uL ~~0J07001~~ WATER 1J17002 Multiplr: 1.00
ALS Vial : 2 Sample Multiplier: 1 YNB 03.16.12

Integration File: EVENTS1.E
Quant Time: Mar 13 09:28:01 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	92663028	118.227 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 94.58%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	39187487	56.250 ug/L

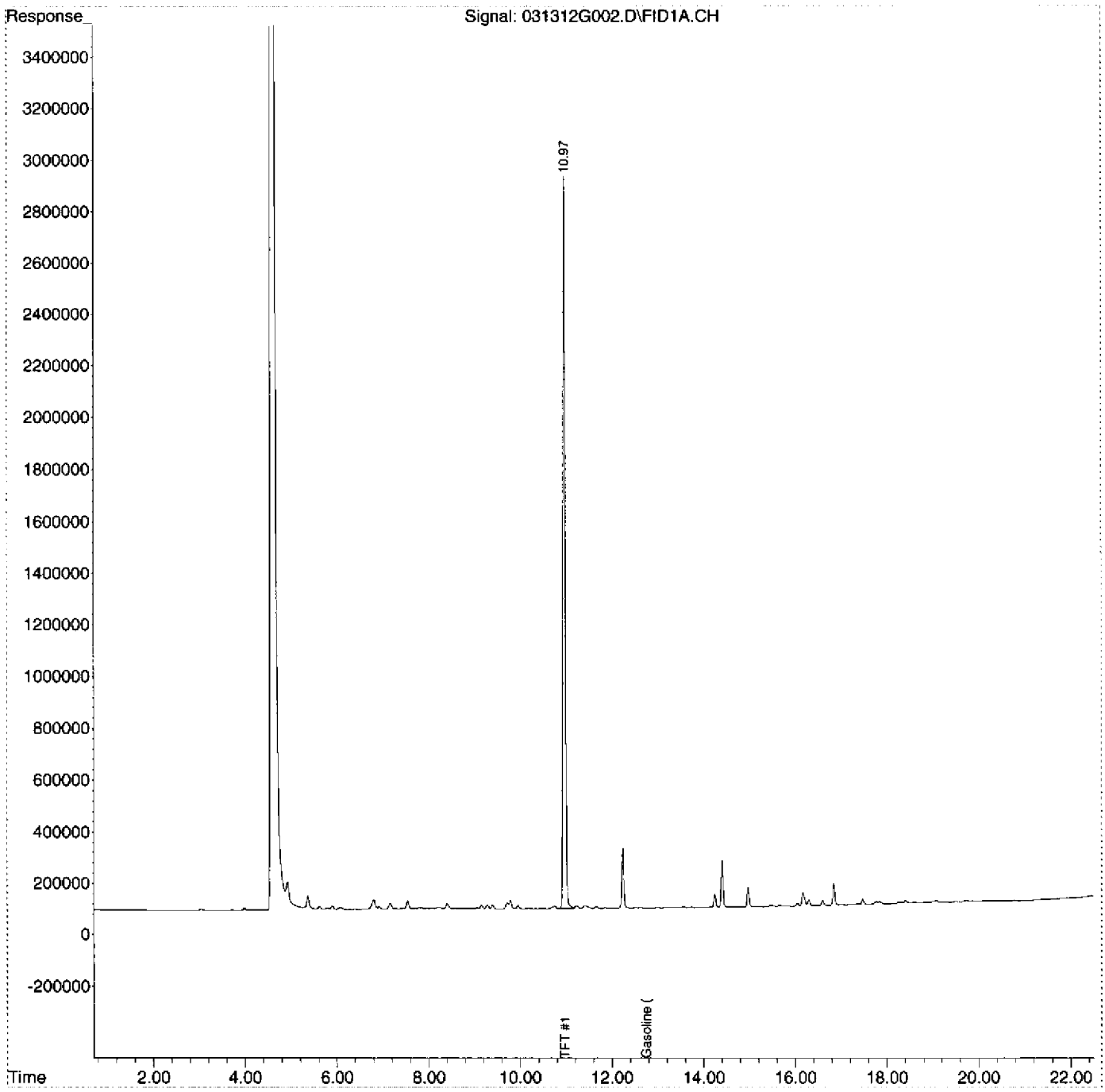
(f)=RT Delta > 1/2 Window (m)=manual int.

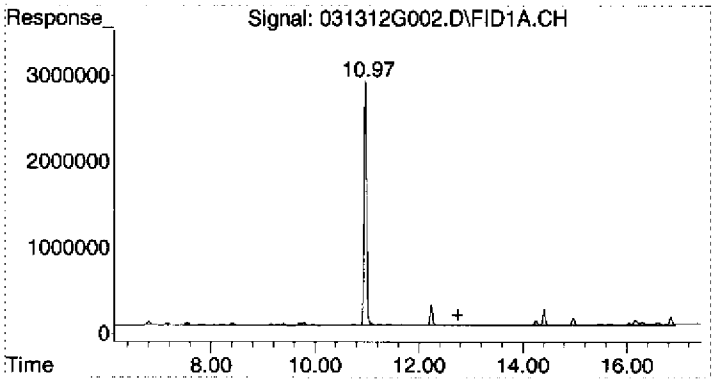
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G002.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 8:55 Operator: YNB
Sample : 2030030-LCV1 Inst : AG6890-7
Misc : 2.5uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 2 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 09:28:01 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 39187487
Conc: 56.25 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G003.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 9:28 Operator: YNB
Sample : B2C0060-BLK1 Inst : AG6890-7
Misc : BLANK WATER Multiplr: 1.00
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 09:59:19 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	93171330	118.876 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 95.10%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	1742640	2.501 ug/L

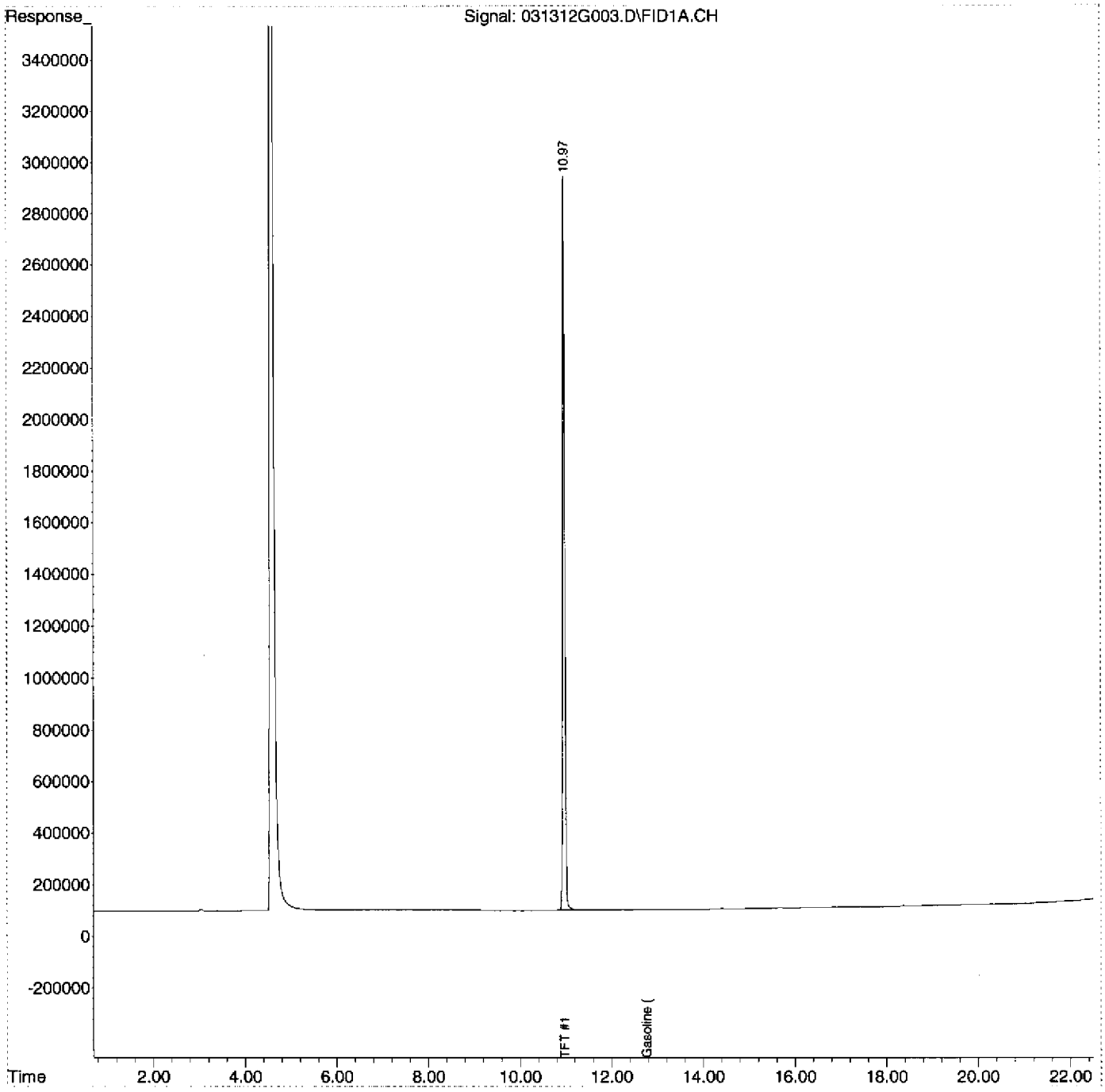
(f)=RT Delta > 1/2 Window (m)=manual int.

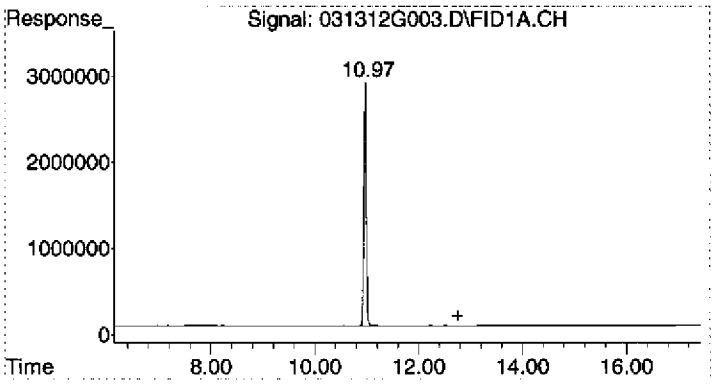
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G003.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 9:28 Operator: YNB
Sample : B2C0060-BLK1 Inst : AG6890-7
Misc : BLANK WATER Multiplr: 1.00
ALS Vial : 3 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 09:59:19 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 1742640
Conc: 2.50 ug/L m

Sample Name B2C0060-BS1
Operator YNB
Data File Name 031312G004.D
Date Acquired 3/13/2012 10:00
Instrument Name AG6890-7

Name	Units	Spike	Amount	% Recovery	QC LIMIT	STATUS
Gasoline (TPH) #1	ug/L	500	488.23	97.65%	75-114	PASS

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G004.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 10:00 Operator: YNB
Sample : B2C0060-BS1 Inst : AG6890-7
Misc : 25uL ~~0J07~~001 WATER 1117002 Multiplr: 1.00
ALS Vial : 4 Sample Multiplier: 1

YNB 03.16.12

Integration File: EVENTS1.E
Quant Time: Mar 13 10:30:44 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	93828169	119.714 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 95.77%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	340131951	488.231 ug/L

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

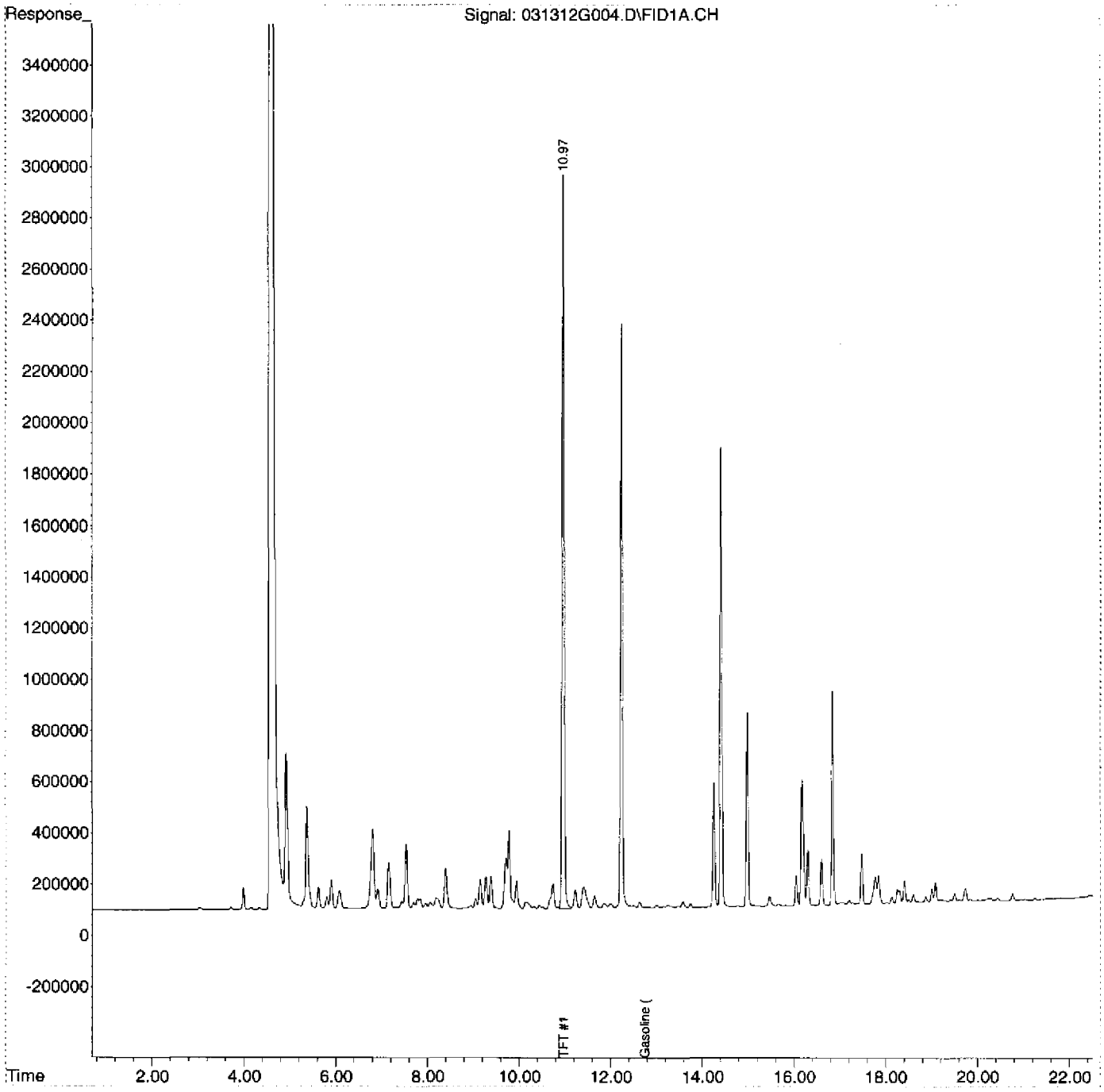
Quantitation Report (Not Reviewed)

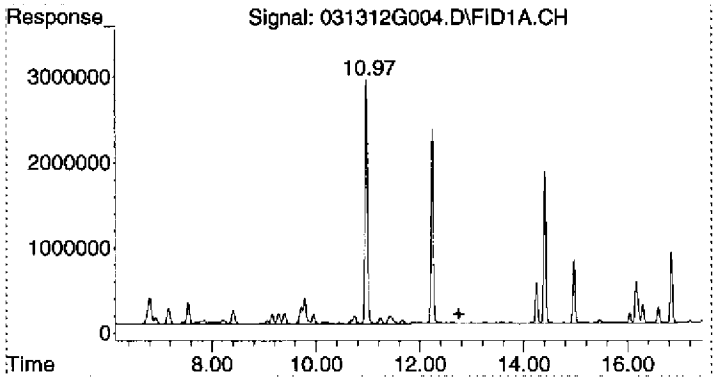
Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G004.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 10:00
Sample : B2C0060-BS1
Misc : 25uL 0J07001 WATER
ALS Vial : 4 Sample Multiplier: 1

Operator: YNB
Inst : AG6890-7
Multiplr: 1.00

Integration File: EVENTS1.E
Quant Time: Mar 13 10:30:44 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 340131951
Conc: 488.23 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G005.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 10:33 Operator: YNB
Sample : 1203024-01 Inst : AG6890-7
Misc : FB21,A, WATER Multiplr: 1.00
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 11:03:53 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	93093499	118.777 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 95.02%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	3305457	4.745 ug/L

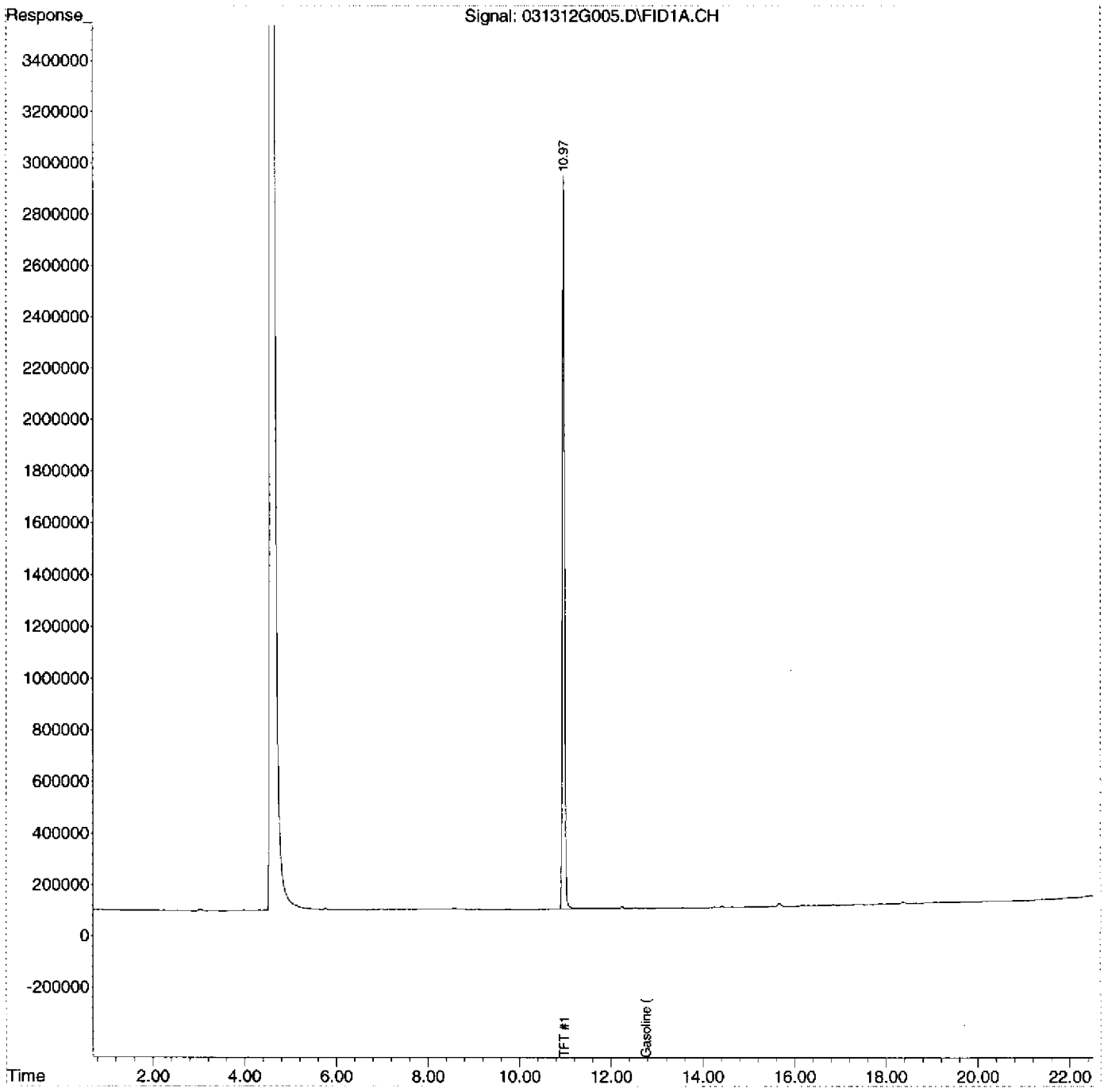
(f)=RT Delta > 1/2 Window (m)=manual int.

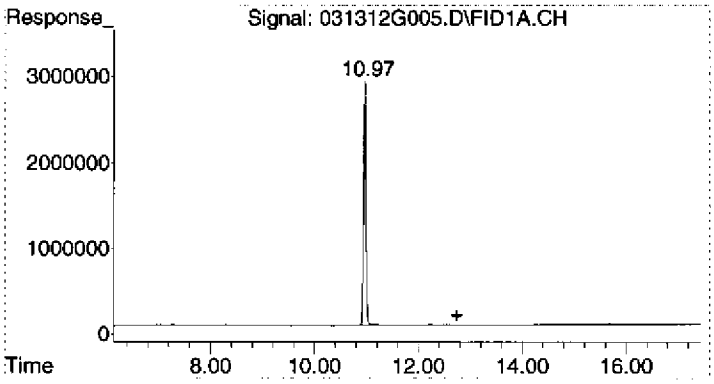
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G005.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 10:33 Operator: YNB
Sample : 1203024-01 Inst : AG6890-7
Misc : FB21,A, WATER Multiplr: 1.00
ALS Vial : 5 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 11:03:53 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 3305457
Conc: 4.74 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G006.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 11:05 Operator: YNB
Sample : 1203024-03 Inst : AG6890-7
Misc : TB52,A, WATER Multiplr: 1.00
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 11:32:04 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	93144188	118.841 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 95.07%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	2304455	3.308 ug/L

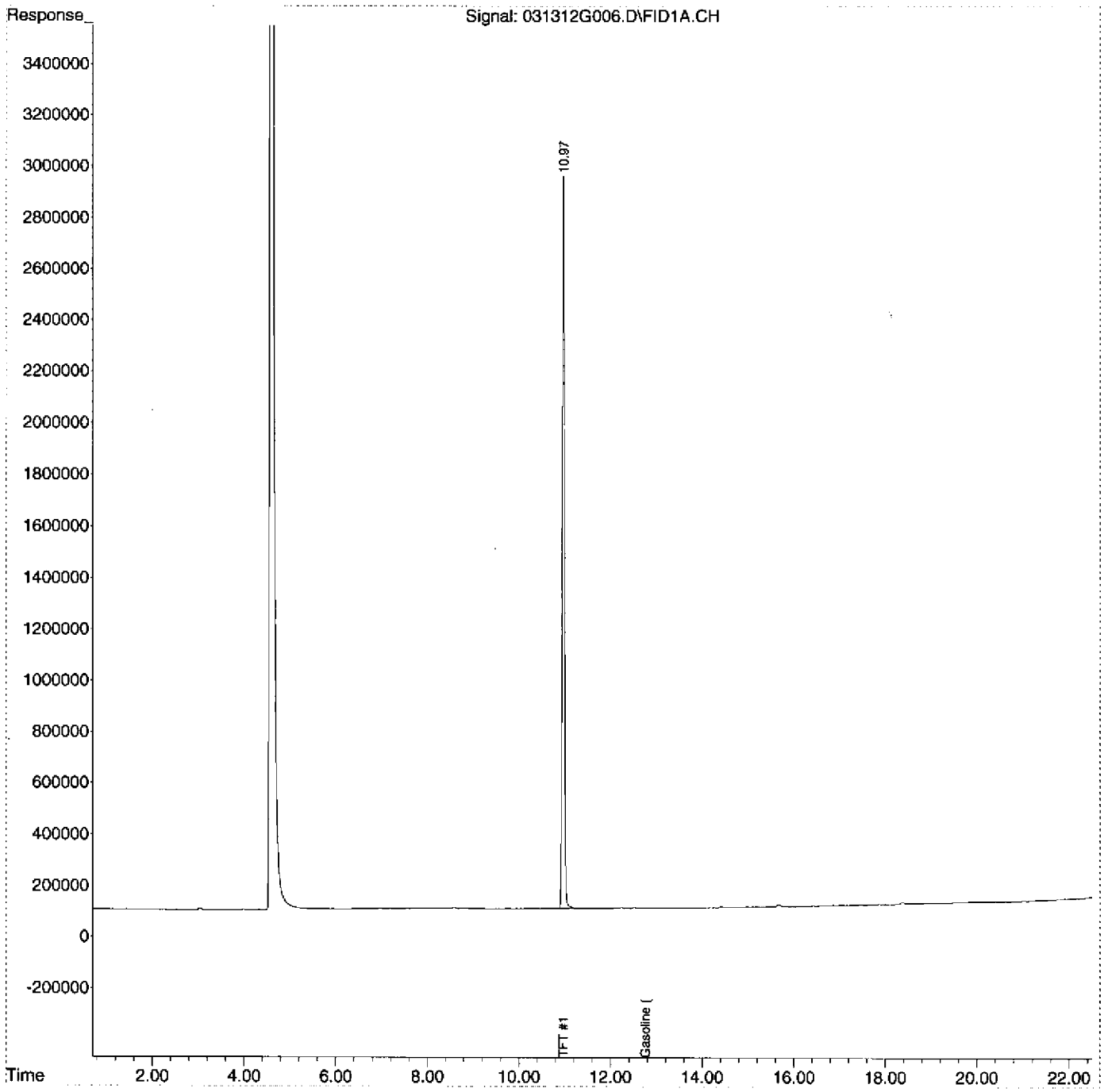
(f)=RT Delta > 1/2 Window (m)=manual int.

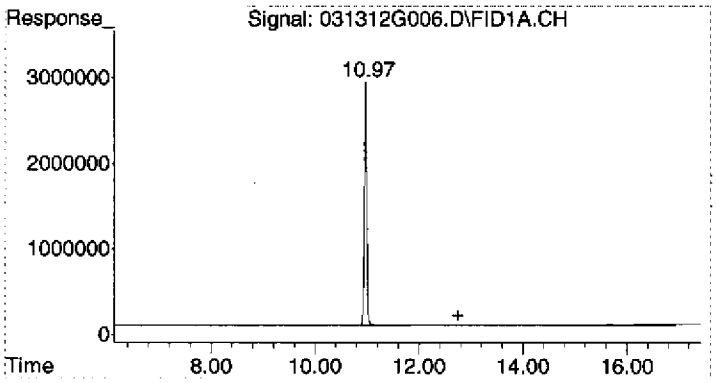
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G006.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 11:05 Operator: YNB
Sample : 1203024-03 Inst : AG6890-7
Misc : TB52,A, WATER Multiplr: 1.00
ALS Vial : 6 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 11:32:04 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation, 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 2304455
Conc: 3.31 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G007.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 11:37 Operator: YNB
Sample : 1203024-02 Inst : AG6890-7
Misc : HW50,A, WATER Multiplr: 1.00
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 12:05:51 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	94155637	120.132 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 96.11%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	1280448	1.838 ug/L

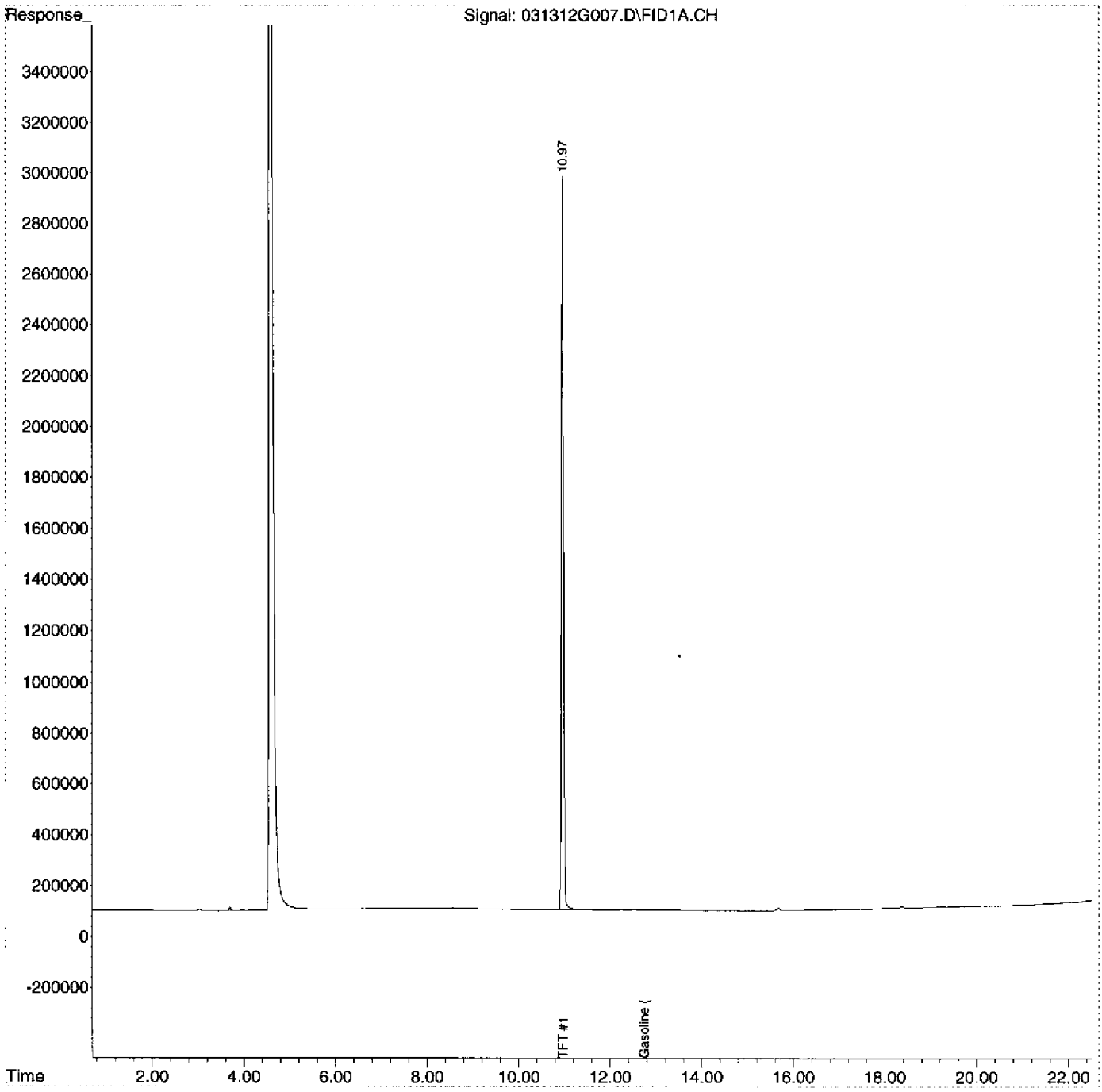
(f)=RT Delta > 1/2 Window (m)=manual int.

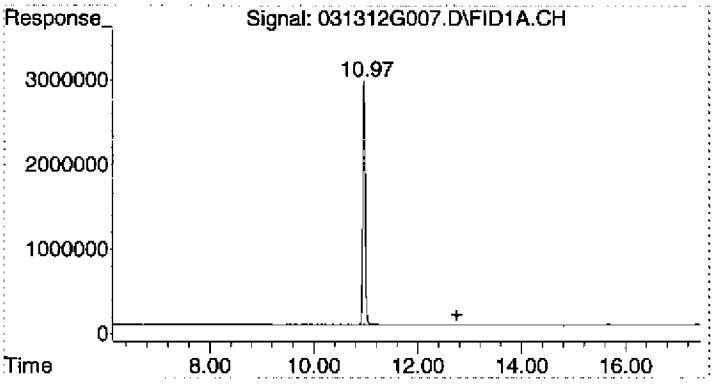
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G007.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 11:37 Operator: YNB
Sample : 1203024-02 Inst : AG6890-7
Misc : HW50,A, WATER Multiplr: 1.00
ALS Vial : 7 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 12:05:51 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 1280448
Conc: 1.84 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G008.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 12:10 Operator: YNB
Sample : B2C0041-MS2 Inst : AG6890-7
Misc : HW56,L, WATER SPIKE Multiplr: 1.00
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 12:41:54 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	94666137	120.783 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 96.63%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	383251161	550.125 ug/L

110%

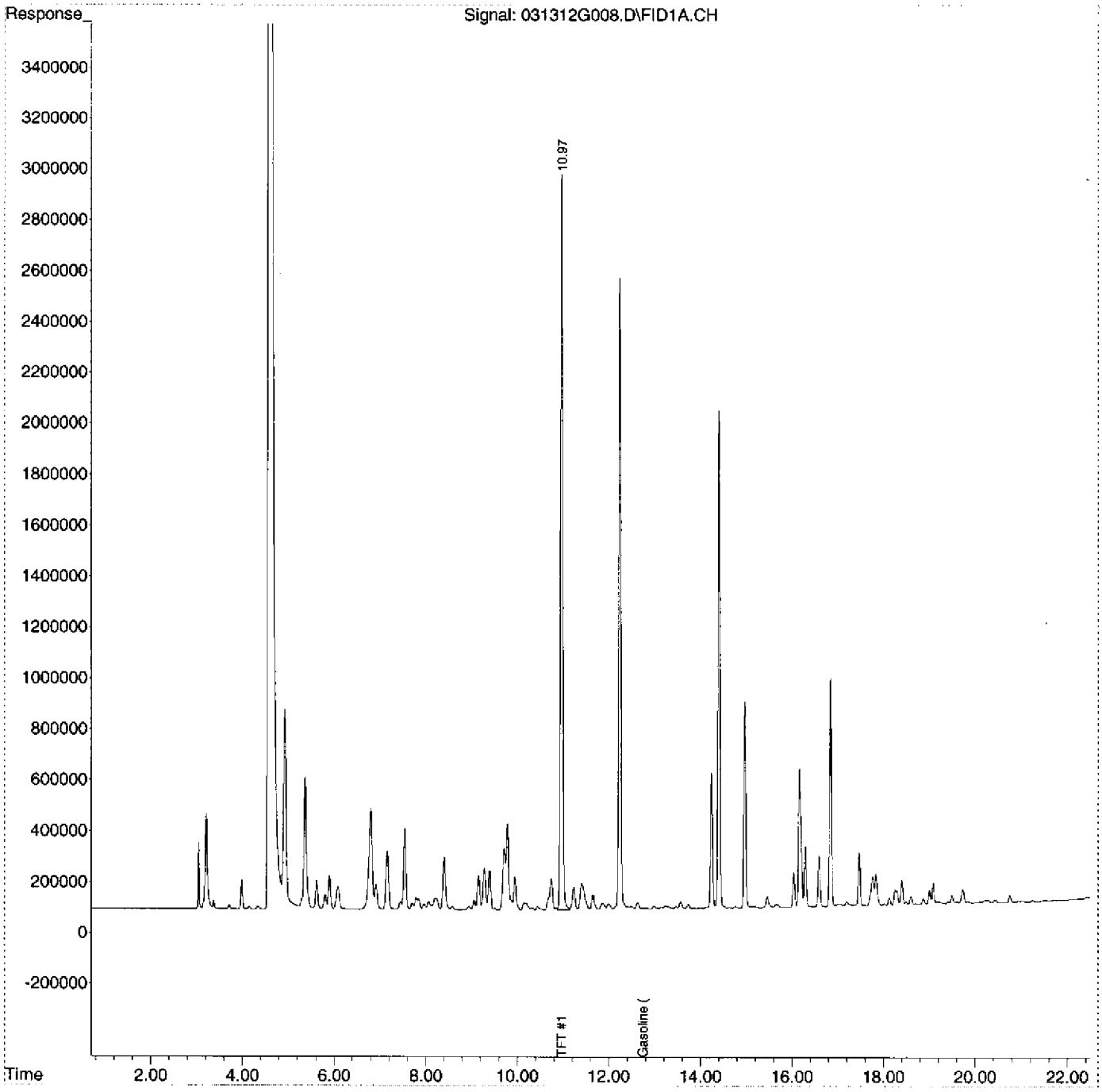
(f)=RT Delta > 1/2 Window (m)=manual int.

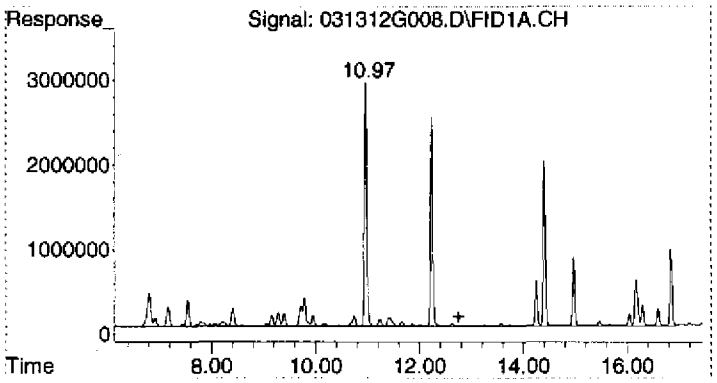
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G008.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 12:10 Operator: YNB
Sample : B2C0041-MS2 Inst : AG6890-7
Misc : HW56,L, WATER SPIKE Multiplr: 1.00
ALS Vial : 8 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 12:41:54 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 383251161
Conc: 550.13 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G009.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 12:42 Operator: YNB
Sample : B2C0041-MSD2 Inst : AG6890-7
Misc : HW56,G, WATER SPIKE Multiplr: 1.00
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 13:08:45 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	95693842	122.094 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 97.68%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	385369319	553.166 ug/L

111%

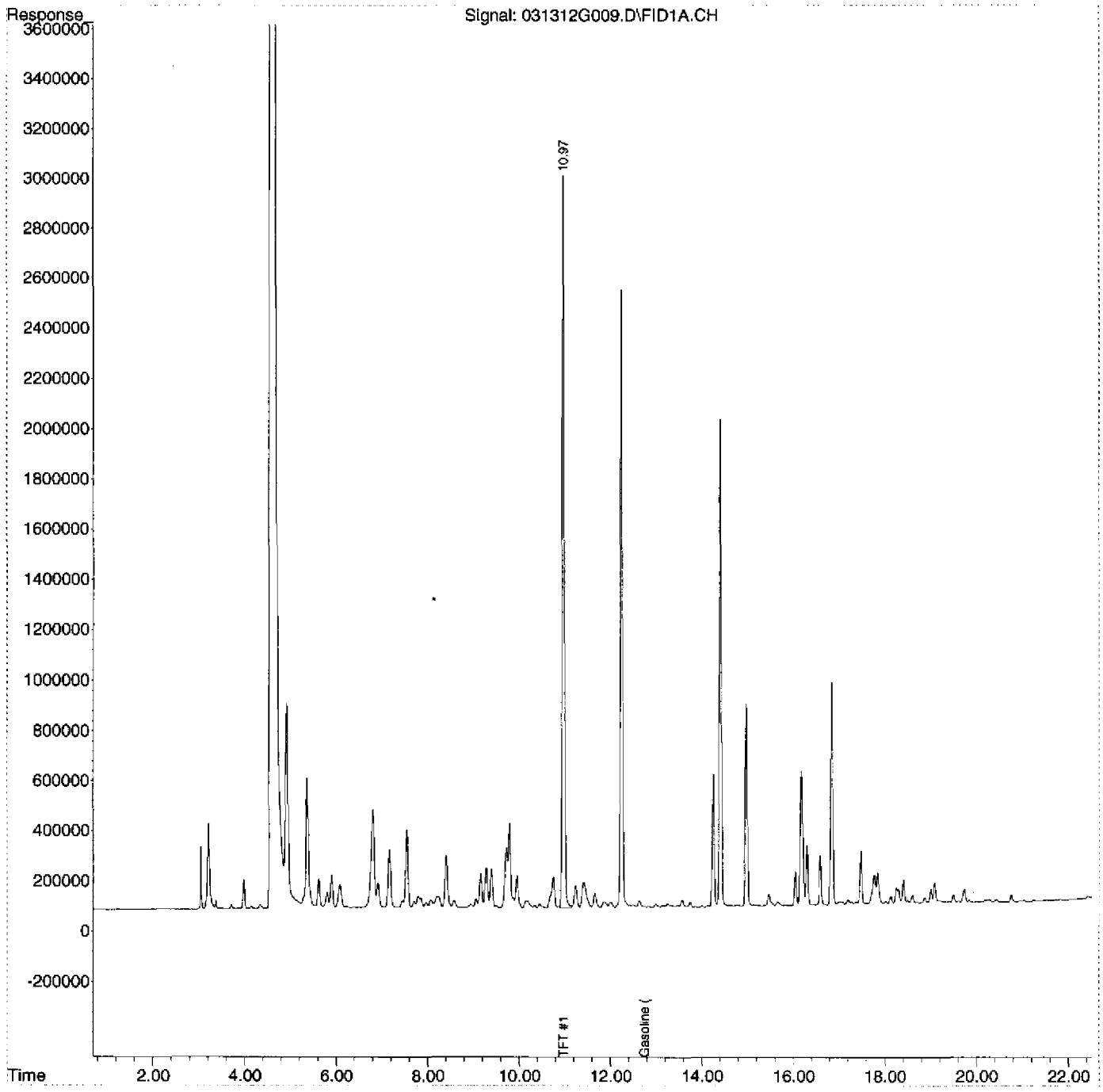
(f)=RT Delta > 1/2 Window (m)=manual int.

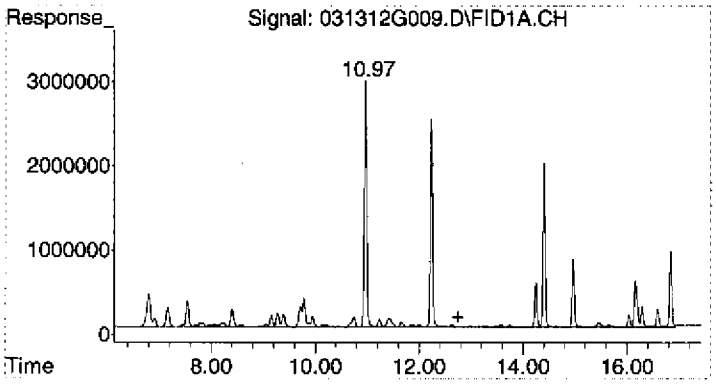
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G009.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 12:42 Operator: YNB
Sample : B2C0041-MSD2 Inst : AG6890-7
Misc : HW56,G, WATER SPIKE Multiplr: 1.00
ALS Vial : 9 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 13 13:08:45 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 385369319
Conc: 553.17 ug/L m

Evaluate Continuing Calibration Report

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G011.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 13:47 Operator: YNB
Sample : 2030030-CCV2 Inst : AG6890-7
Misc : 25uL ~~0J07001~~ WATER 1J17002 YNB Multiplr: 1.00
ALS Vial : 11 Sample Multiplier: 1 03.16.12

Integration File: EVENTS1.E
Quant Time: Mar 14 09:46:05 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Min. RRF : 0.000 Min. Rel. Area : 70% Max. R.T. Dev 0.10min
Max. RRF Dev : 20% Max. Rel. Area : 130%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	HRM Gasoline (TPH) #1	696.662	667.145 E3	4.2	98	0.00
2	S TFT #1	783.769	755.993 E3	3.5	97	0.01

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G011.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 13:47 Operator: YNB
Sample : 2030030-CCV2 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 14 09:46:05 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	94499098	120.570 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 96.46%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	333572340	478.815 ug/L

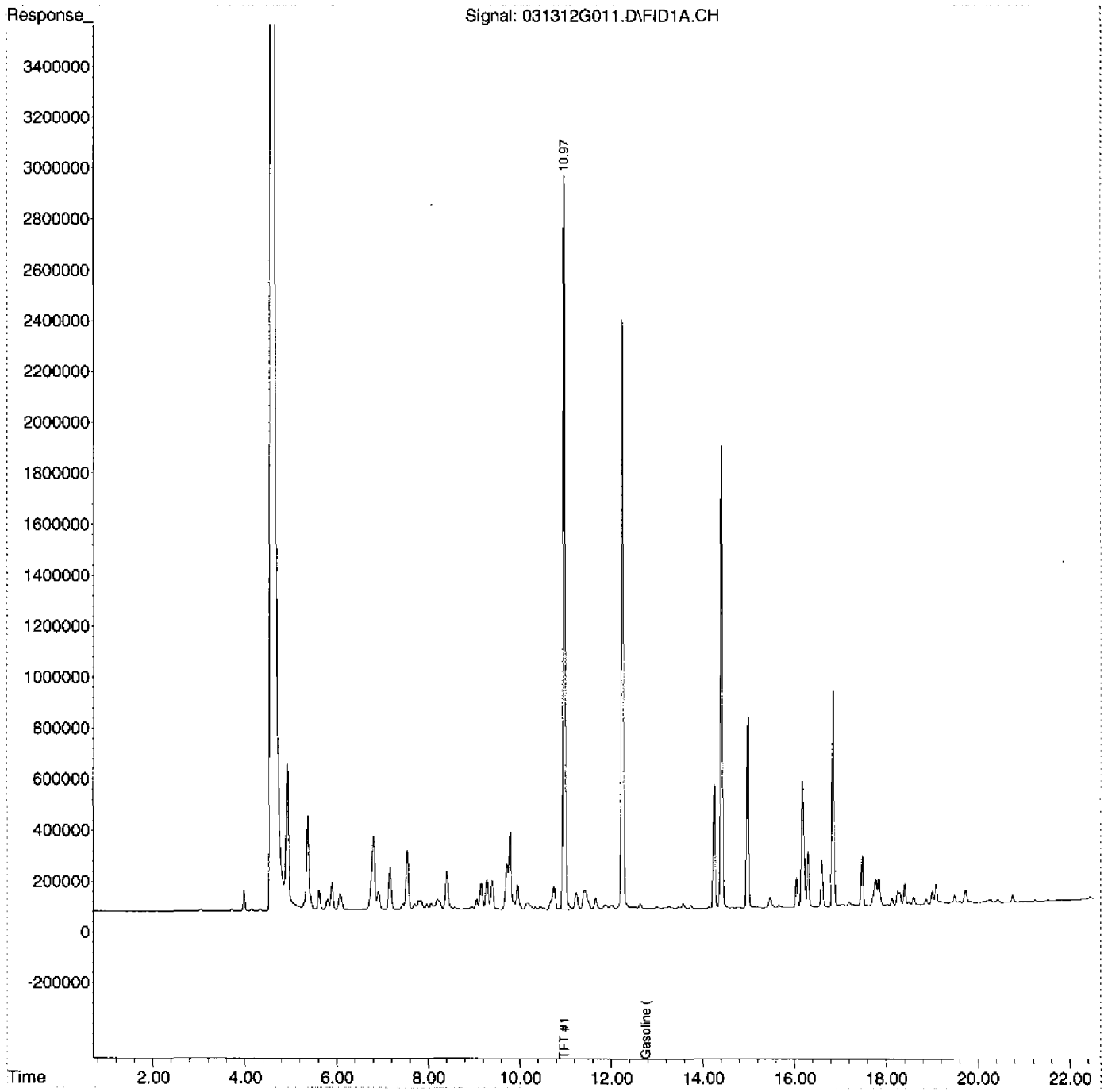
(f)=RT Delta > 1/2 Window (m)=manual int.

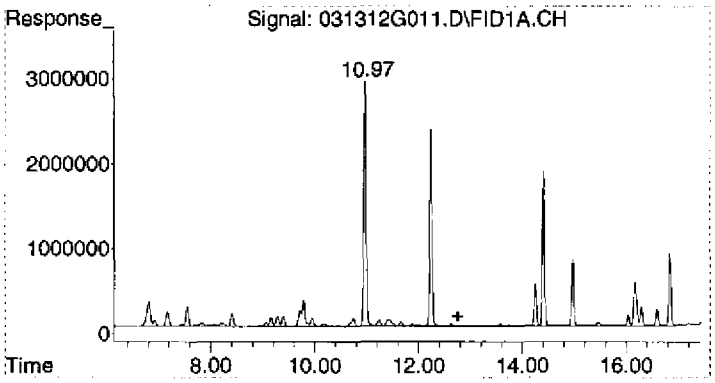
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G011.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 13:47 Operator: YNB
Sample : 2030030-CCV2 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 11 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 14 09:46:05 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 333572340
Conc: 478.82 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G012.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 14:20 Operator: YNB
Sample : 2030030-CCV3 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 14 09:46:33 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	94504972	120.578 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 96.46%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	330917852	475.005 ug/L

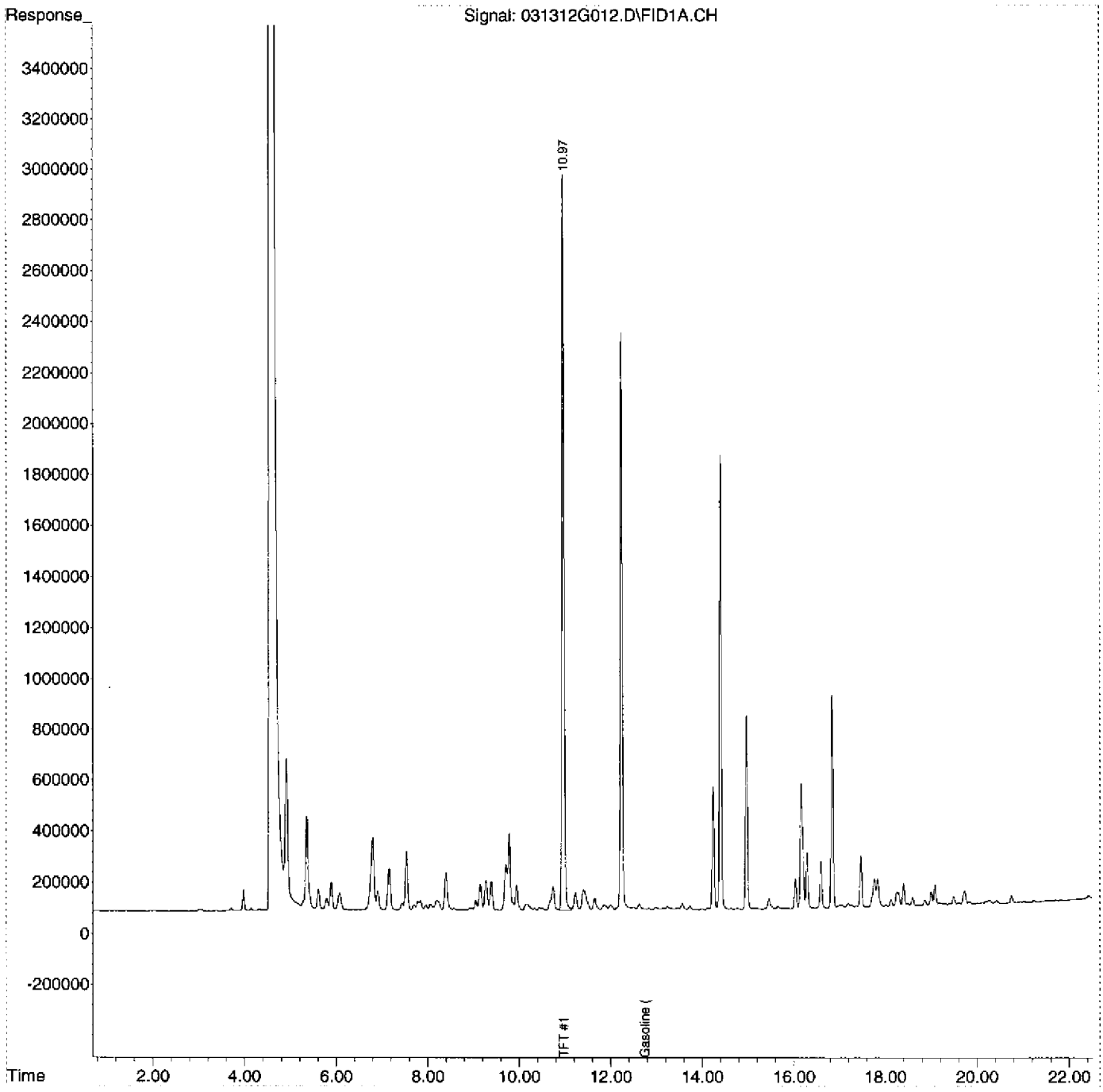
(f)=RT Delta > 1/2 Window (m)=manual int.

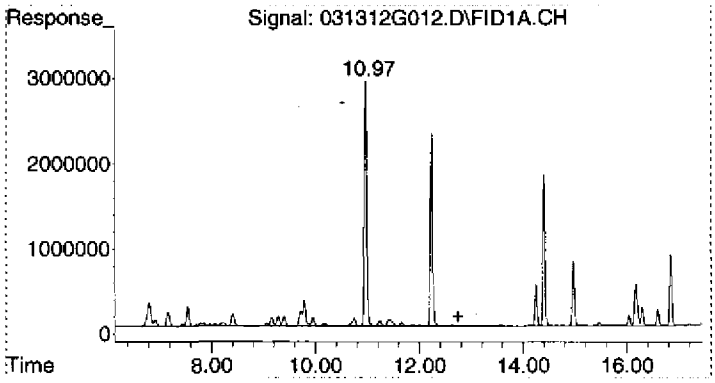
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G012.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 14:20 Operator: YNB
Sample : 2030030-CCV3 Inst : AG6890-7
Misc : 25uL 0J07001 WATER Multiplr: 1.00
ALS Vial : 12 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 14 09:46:33 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 330917852
Conc: 475.01 ug/L m

MISCELLANEOUS DATA

Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G012.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 16:48 Operator: YNB
Sample : 2030021-SB1 Inst : AG6890-7
Misc : SB 02/20/12, WATER Multiplr: 1.00
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:43 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.96	90341338	115.265 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 92.21%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	3807439	5.465 ug/L

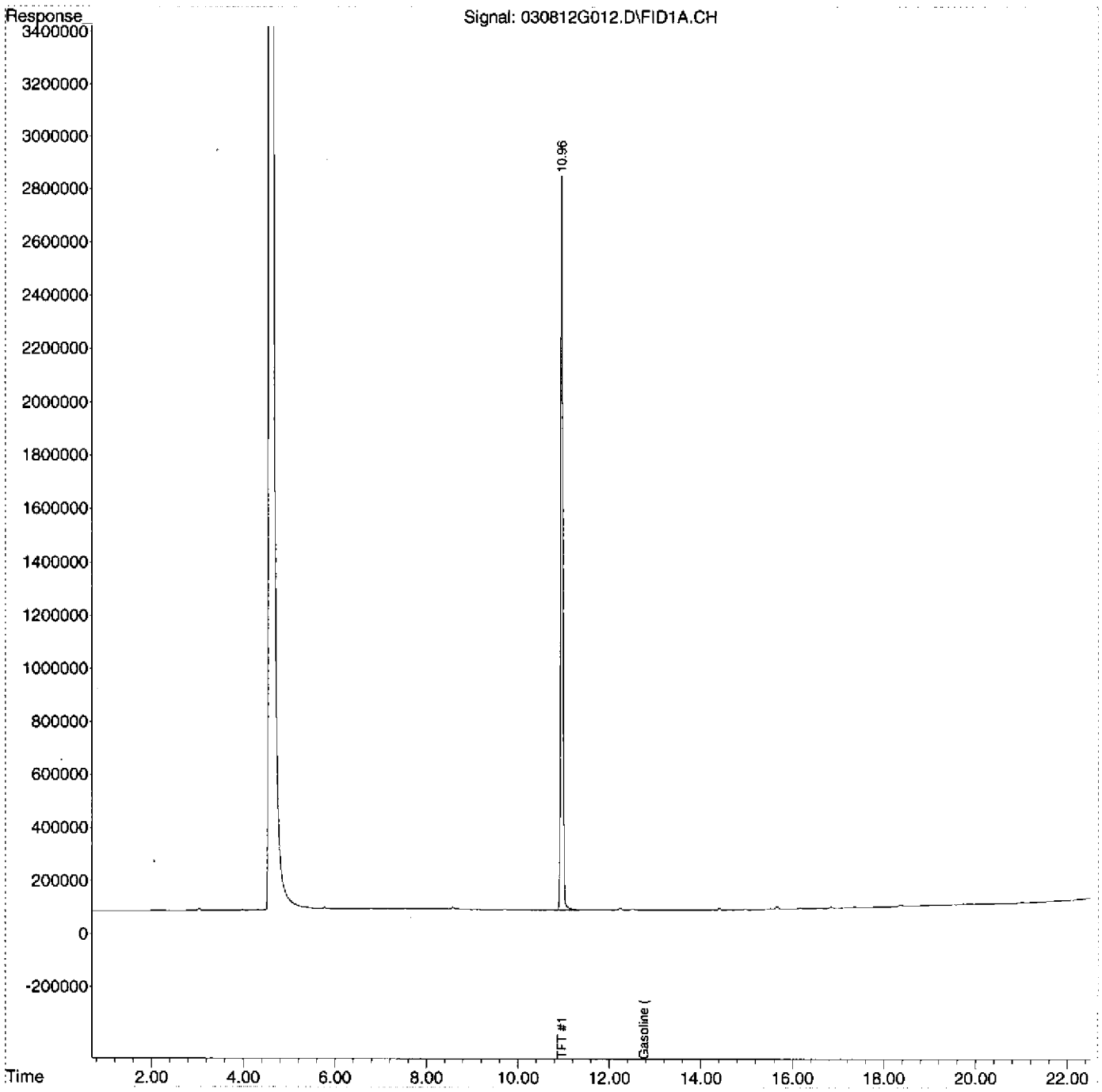
(f)=RT Delta > 1/2 Window (m)=manual int.

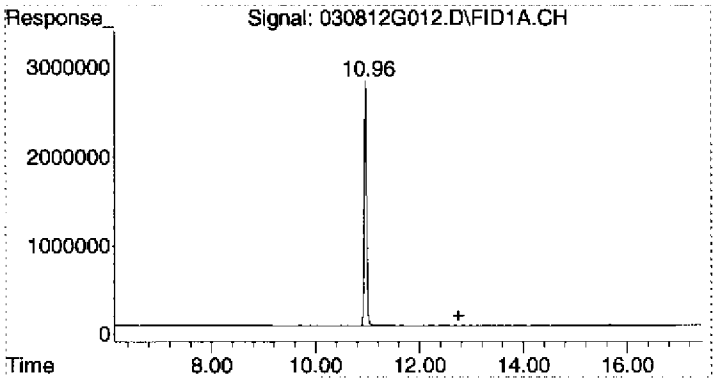
Quantitation Report (Not Reviewed)

Data Path : C:\MSDCHEM\1\2012\DATA\030812ARCH\
Data File : 030812G012.D
Signal(s) : FID1A.CH
Acq On : 08 Mar 2012 16:48 Operator: YNB
Sample : 2030021-SB1 Inst : AG6890-7
Misc : SB 02/20/12, WATER Multiplr: 1.00
ALS Vial : 14 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 09 06:26:43 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.: 12.750 min
Delta R.T.: 0.000 min
Response: 3807439
Conc: 5.47 ug/L m

Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G010.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 13:15 Operator: YNB
Sample : 2030030-SB1 Inst : AG6890-7
Misc : SB 02/20/12, WATER SPIKE Multiplr: 1.00
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 14 09:45:54 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S TFT #1	10.97	92365307	117.848 ug/L
Spiked Amount 125.000 Range 76 - 121 Recovery = 94.28%			
Target Compounds			
1) HRM Gasoline (TPH) #1	12.75	3530662	5.068 ug/L

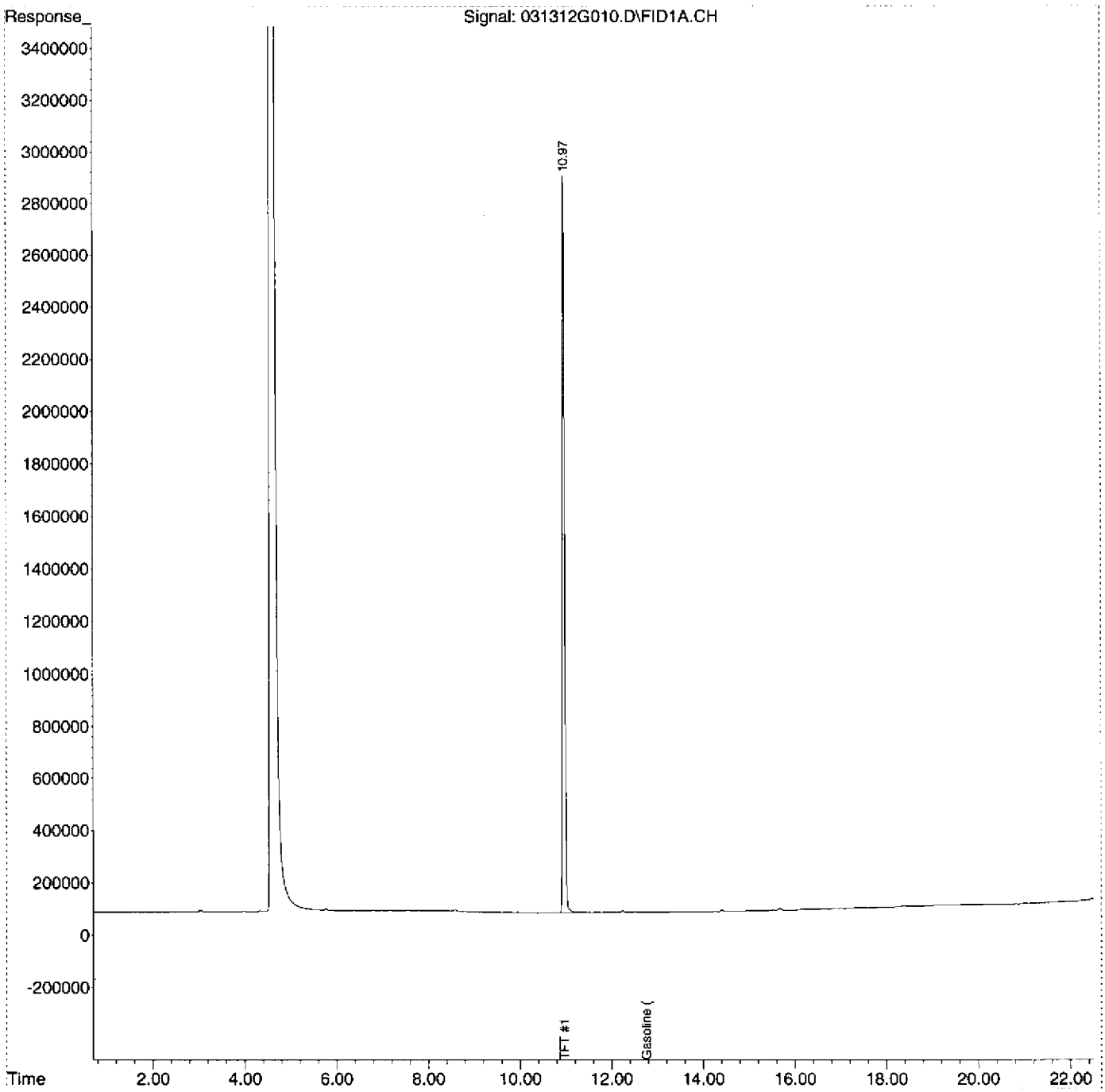
(f)=RT Delta > 1/2 Window (m)=manual int.

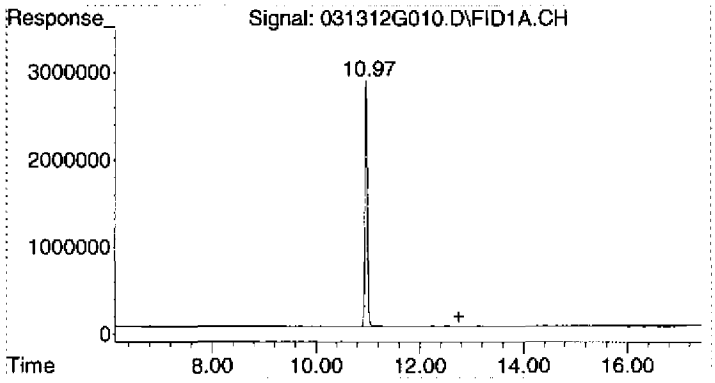
Quantitation Report (Not Reviewed)

Data Path : C:\MSDChem\1\2012\data\031312ARCH\
Data File : 031312G010.D
Signal(s) : FID1A.CH
Acq On : 13 Mar 2012 13:15 Operator: YNB
Sample : 2030030-SB1 Inst : AG6890-7
Misc : SB 02/20/12, WATER SPIKE Multiplr: 1.00
ALS Vial : 10 Sample Multiplier: 1

Integration File: EVENTS1.E
Quant Time: Mar 14 09:45:54 2012
Quant Method : C:\MSDCHEM\1\2012\METHOD\012012GS.M
Quant Title : GC TPH Method
QLast Update : Mon Jan 23 13:58:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 5 mL
Signal Phase : DB-624 75m
Signal Info : FID





#1 Gasoline (TPH) #1

R.T.:	12.750 min
Delta R.T.:	0.000 min
Response:	3530662
Conc:	5.07 ug/L m

STANDARDS RECORDS

Analytical Standard Record

EPA Region 9 Laboratory

0C16025

Description:	GAS:Unleaded Gasoline Composite S	**Expires:**	04/17/12
Standard Type:	Analyte Spike	**Prepared:**	03/16/10
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	11/07/11 16:02 by jad
Vendor:	Restek	**Lot Numb**	A066488

Cat # 30205, Lot # A066488; bar code AU002204, open 10/17/11 by YNB

Analyte	CAS Number	Concentration (ppm)
TPH as Gasoline	8006-61-9	50000

Analytical Standard Record

EPA Region 9 Laboratory

0D22007

Description:	GAS ARCH: Alpha, Alpha, Alpha-Tr	**Expires:**	04/17/12
Standard Type:	Surrogate Spike	**Prepared:**	04/22/10
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1.55	**Department:**	Extractables
Vials:	1	**Last Edit:**	10/31/11 13:58 by YNB
Vendor:	Restek	**Lot Numb**	A067627

/Cat. # 30083, Lot# A0067627; bar code #AU002332, open 10/17/11 by YNB

Analyte	CAS Number	Concentration (ppm)
a,a,a-Trifluorotoluene	98-08-8	10000

Analytical Standard Record

EPA Region 9 Laboratory

0F03014

Description:	GAS: Gasoline, Stock (QCS)	**Expires:**	08/31/12
Standard Type:	Other Solution	**Prepared:**	06/03/10
Solvent:	Solvent MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	06/03/10 09:24 by YNB
Vendor:	Supelco	**Lot Numb**	LB69826

Supelco 47516-U Lot LB69826; bar code AU002502

Analyte	CAS Number	Concentration (ppm)
TPH as Gasoline	8006-61-9	20000

Analytical Standard Record

EPA Region 9 Laboratory

1B16005

Description:	DRO:Turpentine, Stock	**Expires:**	11/21/18
Standard Type:	Other Solution	**Prepared:**	02/16/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	02/16/11 12:36 by YNB
Vendor:	AccuStandard	**Lot Numb**	A9020099

Cat.# HS-004S-40X, Lot # A9020099, bar code AU003356 (2)

Analyte	CAS Number	Concentration (ppm)
Turpentine	8006-64-2	20000

Analytical Standard Record

EPA Region 9 Laboratory

1C22022

Description:	DRO:Diesel Fuel #2 Composite Stanc	**Expires:**	09/30/16
Standard Type:	Analyte Spike	**Prepared:**	03/22/11
Solvent:	DCM	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	03/22/11 11:18 by YNB
Vendor:	Restek	**Lot Numb**	A069478

Restek Cat. No. 31258 Lot#: A06947 Bar Code : AU003440

Analyte	CAS Number	Concentration (ppm)
TPH as Diesel	68334-30-5	50000
TPH - Diesel Range Organics	TPH-DRO	50000

Analytical Standard Record

EPA Region 9 Laboratory

1I23004

Description:	GRO:Stoddard Solvent, Stock	**Expires:**	04/26/20
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:18 by TD
Vendor:	AccuStandard	**Lot Numb**	B0100498

Cat.# HS-005S-40X, LOT# B0100498; AU003885 B

Analyte	CAS Number	Concentration (ppm)
Stoddard solvent	8052-41-3	20000

Analytical Standard Record

EPA Region 9 Laboratory

1I23006

Description:	GAS:GAS Methylpentane,Trimethylb	**Expires:**	11/17/12
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	METHANOL	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:32 by TD
Vendor:	AccuStandard	**Lot Numb**	B3100066-2B

Cat.# S-10760-2.5X, Lot # B3100066-2B; bar code # AU003881 A

Analyte	CAS Number	Concentration (ppm)
2-Methylpentane	107-83-5	4997
1,2,4-Trimethylbenzene	95-63-6	4937

Analytical Standard Record

EPA Region 9 Laboratory

1I23008

Description:	GASGRO:Mineral Spirits, Stock	**Expires:**	05/09/18
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:12 by TD
Vendor:	AccuStandard	**Lot Numb**	B8050069

Cat.# HS-002S-40X, Lot # B8050069; bar code # AU003886 A

Analyte	CAS Number	Concentration (ppm)
Mineral spirits	64475-85-0	20000

Analytical Standard Record

EPA Region 9 Laboratory

1I23010

Description:	GASDRO:Naphtha, Stock	**Expires:**	09/01/21
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:21 by TD
Vendor:	AccuStandard	**Lot Numb**	211091015

Cat.# HS-003S-40X, Lot # 211091015 bar code #AU003883 A

Analyte	CAS Number	Concentration (ppm)
Naptha	8030-30-6	20002

Analytical Standard Record

EPA Region 9 Laboratory

1I23012

Description:	GASDRO:Lacquer Thinner, Stock	**Expires:**	04/30/19
Standard Type:	Other Solution	**Prepared:**	09/23/11
Solvent:	Solvent Lot # MeOH	**Prepared By:**	** Vendor **
Final Volume (mls):	1	**Department:**	Extractables
Vials:	1	**Last Edit:**	09/23/11 10:23 by TD
Vendor:	AccuStandard	**Lot Numb**	B9040308

Cat.# HS-001S-40X, Lot # B9040308; bar code #AU003884 A

Analyte	CAS Number	Concentration (ppm)
Lacquer thinner	64742-89-8	20000

Analytical Standard Record

EPA Region 9 Laboratory

1J17001

Description:	GAS:GAS101711 1000 ug/mL (Arch	**Expires:**	04/17/12
Standard Type:	Analyte Spike	**Prepared:**	10/17/11
Solvent:	MeOH Lot # DD471	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	5	**Last Edit:**	11/07/11 16:02 by jad
Vendor:	Restek	**Lot Numb**	A066488

200 uL in 10mL of MeOH (1H11012)

Analyte	CAS Number	Concentration (ppm)
TPH as Gasoline	8006-61-9	1000

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
0C16025	GAS:Unleaded Gasoline Composit	03/16/10	** Vendor **	04/17/12	11/07/11 16:02 by jad	0.2

Analytical Standard Record

EPA Region 9 Laboratory

1J17002

Description:	GAS SURR ARCH 625ppm (10/17/1	**Expires:**	04/17/12
Standard Type:	Surrogate Spike	**Prepared:**	10/17/11
Solvent:	MeOH Lot # DD471	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	10/31/11 13:59 by YNB
Vendor:	Restek	**Lot Numb**	A067627

MeOH Lot# DD471 (1H11012)

Analyte	CAS Number	Concentration (ppm)
a,a,a-Trifluorotoluene	98-08-8	625

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
0D22007	GAS ARCH: Alpha, Alpha, Alpha-	04/22/10	** Vendor **	04/17/12	10/31/11 13:58 by YNB	0.625

M0279790

00210

Analytical Standard Record

EPA Region 9 Laboratory

2A10001

Description:	GAS_011012-SCV 100 ug/L	**Expires:**	07/10/12
Standard Type:	Reference Material	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 08:51 by YNB
Vendor:	Supelco	**Lot Numb**	LB50361

50uL/10 mL MeOH

Analyte	CAS Number	Concentration (ppm)	SRM Control Limits
TPH as Gasoline	8006-61-9	100	0-200

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
0F03014	GAS: Gasoline, Stock (QCS)	06/03/10	** Vendor **	08/31/12	06/03/10 09:24 by YNB	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10002

Description:	GAS: GAS RET TIME STD	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH DB939	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 08:50 by YNB
Vendor:	AccuStandard	**Lot Numb**	B3100066-2B

Analyte	CAS Number	Concentration (ppm)
2-Methylpentane	107-83-5	99.9
1,2,4-Trimethylbenzene	95-63-6	98.7

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1123006	GAS:GAS Methylpentane,Trimeth	09/23/11	** Vendor **	11/17/12	09/23/11 10:32 by TD	0.2

Analytical Standard Record

EPA Region 9 Laboratory

2A10005

Description:	GAS: Naphtha_01/10/12 100 ug/mL	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:20 by YNB
Vendor:	AccuStandard	**Lot Numb**	211091015

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Naptha	8030-30-6	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1123010	GASDRO:Naphtha, Stock	09/23/11	** Vendor **	09/01/21	09/23/11 10:21 by TD	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10006

Description:	GAS: Turpentine_01/10/12 100 ug/m	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:25 by YNB
Vendor:	AccuStandard	**Lot Numb**	045-361

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Turpentine	8006-64-2	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1B16005	DRO:Turpentine, Stock	02/16/11	** Vendor **	11/21/18	02/16/11 12:36 by YNB	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10007

Description:	GAS: Mineral Spirits_01/10/12 100 ι	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:28 by YNB
Vendor:	AccuStandard	**Lot Numb**	B8050069

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Mineral spirits	64475-85-0	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1I23008	GASGRO:Mineral Spirits, Stock	09/23/11	** Vendor **	05/09/18	09/23/11 10:12 by TD	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10009

Description:	GAS: Lacquer Thinner_01/10/12 10(	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:32 by YNB
Vendor:	AccuStandard	**Lot Numb**	125-049

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Lacquer thinner	64742-89-8	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1123012	GASDRO:Lacquer Thinner, Stock	09/23/11	** Vendor **	04/30/19	09/23/11 10:23 by TD	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10011

Description:	GAS: Stoddard Solvent_01/10/12 10	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 09:35 by YNB
Vendor:	AccuStandard	**Lot Numb**	B0100498

50 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
Stoddard solvent	8052-41-3	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1I23004	GRO:Stoddard Solvent, Stock	09/23/11	** Vendor **	04/26/20	09/23/11 10:18 by TD	0.05

Analytical Standard Record

EPA Region 9 Laboratory

2A10012

Description:	GAS: Diesel 100 ug/mL	**Expires:**	07/10/12
Standard Type:	Other Solution	**Prepared:**	01/10/12
Solvent:	MeOH Lot # DB939	**Prepared By:**	Yelena Borinshteyn
Final Volume (mls):	10	**Department:**	Extractables
Vials:	1	**Last Edit:**	01/10/12 10:05 by YNB
Vendor:	Restek	**Lot Numb**	A069478

20 uL in 10mL of MeOH

Analyte	CAS Number	Concentration (ppm)
TPH as Diesel	68334-30-5	100
TPH - Diesel Range Organics	TPH-DRO	100

Parent Standards used in this standard:

Standard	Description	Prepared	Prepared By	Expires	Last Edit	(mls)
1C22022	DRO:Diesel Fuel #2 Composite St	03/22/11	** Vendor **	09/30/16	03/22/11 11:18 by YNB	0.02

P. 218 3-16-12