



Total Extractable Petroleum Hydrocarbons (Diesel)

Case Narrative

Colorado Oil & Gas Commission

Complaint 200272771

Work Order Number: 1010128

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 10/08/2010.
2. The water sample was extracted by adding hexane to the water sample and shaking the resulting two phase solution according to SOP 603 Revision 11, which was developed at ALS. The hydrocarbons partition into the hexane layer, which is then removed for analysis.
3. The extract was then analyzed using GC with a DB-5.625 capillary column and a flame ionization detector (FID) according to SOP 406 Revision 14 generally based on SW-846 Method 8000B and Method 8015B and specifically on the California LUFT Field Manual (October 1989 revision). The procedures are based on this general method because SW-846 does not have a specific method for total extractable petroleum hydrocarbons (TEPH) or diesel range organics. The only true modification from this method is that TEPH is a multicomponent mixture and is quantitated by integrating across the entire range, rather than summing areas of individual peaks. All positive results were quantitated using the responses from the initial calibration curve using the external standard technique. Also, a confirmation column is not used, because the analyte is a multicomponent mixture and the specific carbon range of the peaks detected is specified on the individual sample reporting forms.
4. All initial and continuing calibration criteria were met.
5. The method blank associated with this project was below the MDL for diesel range organics.
6. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.
7. Matrix spikes and matrix spike duplicates could not be performed because of insufficient sample. A laboratory control sample and laboratory control sample duplicate were performed instead.



8. The sample was extracted and analyzed within the established holding time.
9. All surrogate recoveries were within the acceptance criteria.
10. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 3.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Mindy Norton

Mindy Norton
Organics Primary Data Reviewer

11.9.10

Date

Joel Nolte

Joel Nolte
Organics Final Data Reviewer

11-10-10

Date



ALS
Data Qualifier Flags
Fuels

- G:** This flag indicates that a pattern resembling gasoline was detected in this sample.
- D:** This flag indicates that a pattern resembling diesel was detected in this sample.
- M:** This flag indicates that a pattern resembling motor oil was detected in this sample.
- C:** This flag indicates that a pattern resembling crude oil was detected in this sample.
- 4:** This flag indicates that a pattern resembling JP-4 was detected in this sample.
- 5:** This flag indicates that a pattern resembling JP-5 was detected in this sample.
- H:** This flag indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L:** This flag indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z:** This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
gasoline
JP-8
diesel
mineral spirits
motor oil
Stoddard solvent
bunker C

Multiple flags may be used to indicate the presence of more than one product or component.



ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the data indicate the presence of a compound that meets the identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- *:** This flag indicates that a spike recovery is outside the control criteria.
- +:** This flag indicates that the relative percent difference (RPD) exceeds the control criteria.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1010128

Client Name: Colorado Oil & Gas Conservation Commission

Client Project Name: Complaint 200272771

Client Project Number:

Client PO Number: OE PHA 11000000014

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Burge WW	1010128-1		WATER	06-Oct-10	11:25
Trip Blank	1010128-2		WATER	06-Oct-10	



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #

1010128

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME

Complaint 20027271

PROJECT No.

SAMPLER

SITE ID

EDD FORMAT

PURCHASE ORDER

PHA 100611-14

BILL TO COMPANY

INVOICE ATTN TO

ADDRESS

CITY / STATE / ZIP

PHONE

FAX

E-MAIL

peter.gintantes@state.co.us

DATE

TURNAROUND

14 day

200.7 1200.8 dissolved
Dissolved bases
8260-25 + TICs
8070 + TICs
TEPH - DRO
Anions
pH, cond
TPS + TSS
Alk - Tot. HCO₃, CO₃
SAR calc
Cation Anion Balance
T/C

Lab ID

Field ID

Matrix

Sample Date

Sample Time

Bottles

Pres.

QC

1 Burge WW
Burge WW

W

10/6/10

11:25A

2

1

1

X X X X X X X X X X X

2 Trip Blanks

W

↓

↓

2

1

1

X

X

Anions = Br, Cl, F, NO₂, NO₃, SO₄
200.8 = Al, Sb, As, Cd, Pb, Mo, Se, Ag, Te, U
200.7 = Ba, Be, B, Ca, Cr, Co, Cu, Fe, Li, Mg, Mn, Ni, K, Si, Na, Sr, Zn

Time Zone (Circle): EST CST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

Dissolved = Filter + preserve at lab.

QC PACKAGE (check below)

☒ LEVEL II (Standard QC)
☐ LEVEL III (Std QC + forms)
☐ LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-NaHSO₄ 7-Other 8-4 degrees C 9-5035

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

RECEIVED BY

RELINQUISHED BY

RECEIVED BY

RELINQUISHED BY

RECEIVED BY

Angeles Belloniani
C. Cochran

Angeles Belloniani
C. Cochran

10/7/10 9:00A
10/8/10 0945



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCCWorkorder No: 1010128Project Manager: AWInitials: CW Date: 10-8-10

1. Does this project require any special handling in addition to standard Paragon procedures?		<u>YES</u>	NO
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	NONE	<u>YES</u>	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<u>YES</u>	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<u>YES</u>	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact ? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u> </u> < green pea <u> </u> > green pea	N/A	<u>YES</u>	NO
15. Do perchlorate LCMS-MS samples have headspace ? (at least 1/3 of container required)	N/A	<u>YES</u>	NO
16. Were samples checked for and free from the presence of residual chlorine ? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	N/A	<u>YES</u>	NO
17. Were the samples shipped on ice ?		<u>YES</u>	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <u>#2</u> <u>#4</u> RAD ONLY		<u>YES</u>	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>4.5</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>12</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

received out of hotel with only a few hours of hold time remaining.
AW 10/8/10

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: _____

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

Total Extractable Hydrocarbons

Method SW8015MCALUFTB

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1010128

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200272771

Lab ID: EX101012-11MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12-Oct-10

Date Analyzed: 29-Oct-10

Prep Method: SW3510 Rev C

Prep Batch: EX101012-11

QCBatchID: EX101012-11-2

Run ID: HCD101028-3A

Cleanup: NONE

Basis: N/A

File Name: F3F37904

Sample Aliquot: 1000 ml

Final Volume: 2.5 ml

Result Units: mg/l

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
68334-30-5	DIESEL RANGE ORGANICS	1	0.05	0.05	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	0.22		0.25	88	60 - 140

Data Package ID: HCD1010128-1

Date Printed: Wednesday, November 10, 2010

ALS Environmental -- FC

LIMS Version: 6.428A

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Total Extractable Hydrocarbons

Method SW8015MCALUFTB

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1010128

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200272771

Field ID:	Burge WW
Lab ID:	1010128-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 06-Oct-10

Date Extracted: 12-Oct-10

Date Analyzed: 29-Oct-10

Prep Method: SW3510 Rev C

Prep Batch: EX101012-11

QCBatchID: EX101012-11-2

Run ID: HCD101028-3A

Cleanup: NONE

Basis: As Received

File Name: F3F37908

Sample Aliquot: 1040 ml

Final Volume: 2.5 ml

Result Units: mg/l

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
68334-30-5	DIESEL RANGE ORGANICS	1	0.048	0.048	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	0.209		0.24	87	60 - 140

Data Package ID: HCD1010128-1

Total Extractable Hydrocarbons

Method SW8015MCALUFTB

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1010128

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200272771

Lab ID: EX101012-11LCS	Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 10/12/2010 Date Analyzed: 10/29/2010 Prep Method: SW3510C	Prep Batch: EX101012-11 QCBatchID: EX101012-11-2 Run ID: HCD101028-3A Cleanup: NONE Basis: N/A File Name: F3F37905	Sample Aliquot: 1000 ml Final Volume: 2.5 ml Result Units: mg/l Clean DF: 1
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CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
68334-30-5	DIESEL RANGE ORGANICS	1	0.84	0.05		84	60 - 140%

Lab ID: EX101012-11LCSD	Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 10/12/2010 Date Analyzed: 10/29/2010 Prep Method: SW3510C	Prep Batch: EX101012-11 QCBatchID: EX101012-11-2 Run ID: HCD101028-3A Cleanup: NONE Basis: N/A File Name: F3F37906	Sample Aliquot: 1000 ml Final Volume: 2.5 ml Result Units: mg/l Clean DF: 1
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CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
68334-30-5	DIESEL RANGE ORGANICS	1	0.809	0.05		81	50	4

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
84-15-1	O-TERPHENYL	0.25	104		97		60 - 140

Data Package ID: HCD1010128-1

Date Printed: Wednesday, November 10, 2010

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LIMS Version: 6.428A

Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37904.D
 Acq On : 29 Oct 10 02:53 AM
 Sample : EX101012-11MB
 Misc : water
 Quant Time: Oct 29 20:40 19110

Vial: 10
 Operator: jfn
 Inst : FUELS 3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
 Title : 8015Bmod, CALuft
 Last Update : Fri Oct 29 20:32:32 2010
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5µm
 Signal Info : FID

m 11310

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) S o-terphenyl	13.55	585817	88.16 µg/ml
	Recovery	=	88.16%
Target Compounds			
1) H TEPH	10.00	35810	6.41 µg/ml <i><mdl</i>
2) H Motor Oil	17.00	* <u>5055</u>	5802.77 µg/ml <i><mdl</i>
			<i>*</i>

** MOTOR OIL IS QUANTIFIED WITH A QUADRATIC EQUATION. WHEN THE INDEPENDENT VARIABLE (AREA) IS < THE Y-INTERCEPT, THE ANALYTICAL SOFTWARE RETURNS A VALUE FOR THE DEPENDENT VARIABLE (CONCENTRATION) THAT IS AT THE OTHER END OF THE CURVE'S CONTACT WITH THE X-AXIS.*
(m 11-3-10)

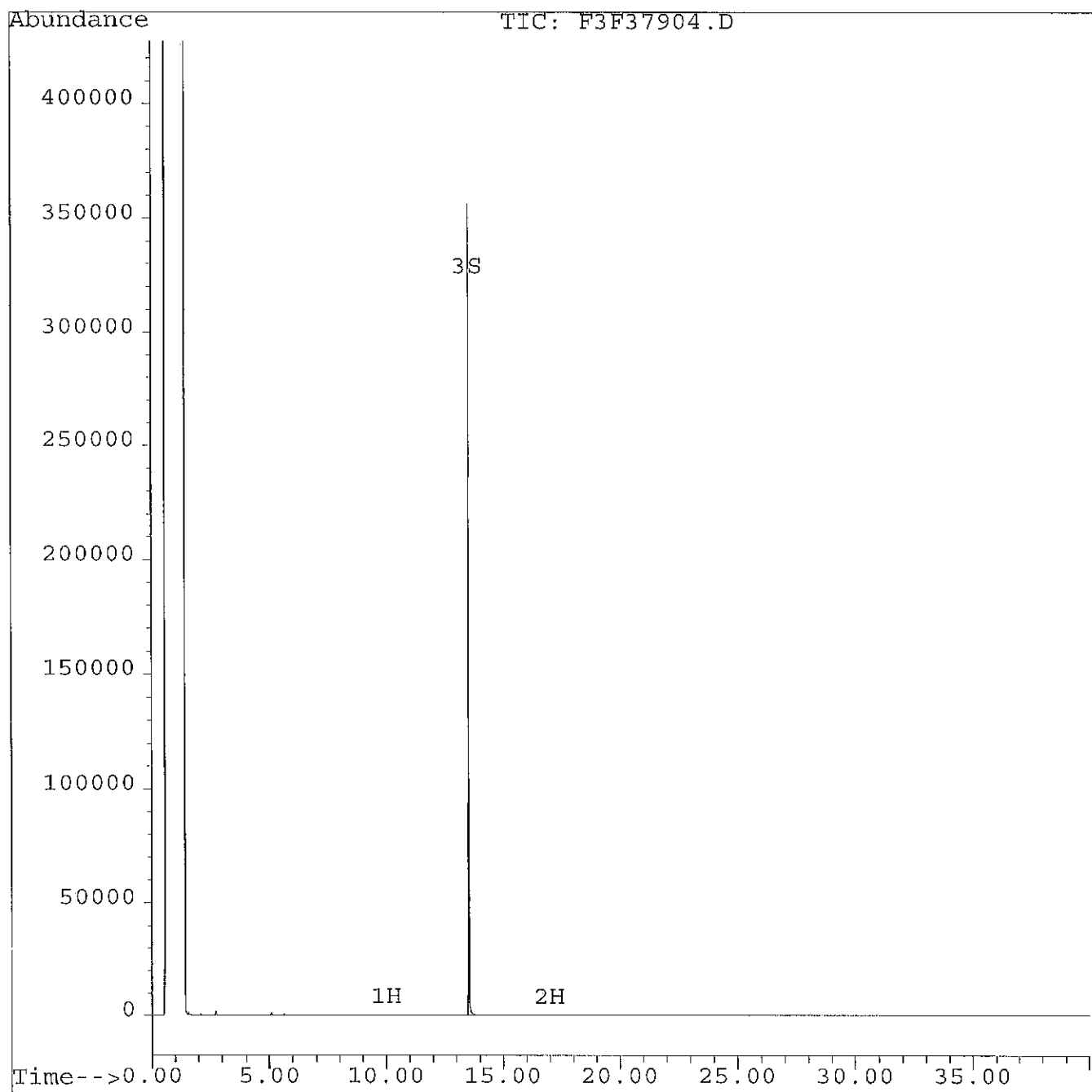
Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37904.D
Acq On : 29 Oct 10 02:53 AM
Sample : EX101012-11MB
Misc : water
Quant Time: Oct 29 20:40 19110

Vial: 10
Operator: jfn
Inst : FUELS 3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
Title : 8015Bmod, CALuft
Last Update : Fri Oct 29 20:32:32 2010
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5µm
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37908.D
Acq On : 29 Oct 10 06:03 AM
Sample : 1010128-1
Misc : water, EX101012-11
Quant Time: Oct 29 20:48 19110

Vial: 14
Operator: jfn
Inst : FUELS 3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
Title : 8015Bmod, CALuft
Last Update : Fri Oct 29 20:32:32 2010
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5µm
Signal Info : FID

1st (1310)

Compound	R.T.	Response	Conc Units

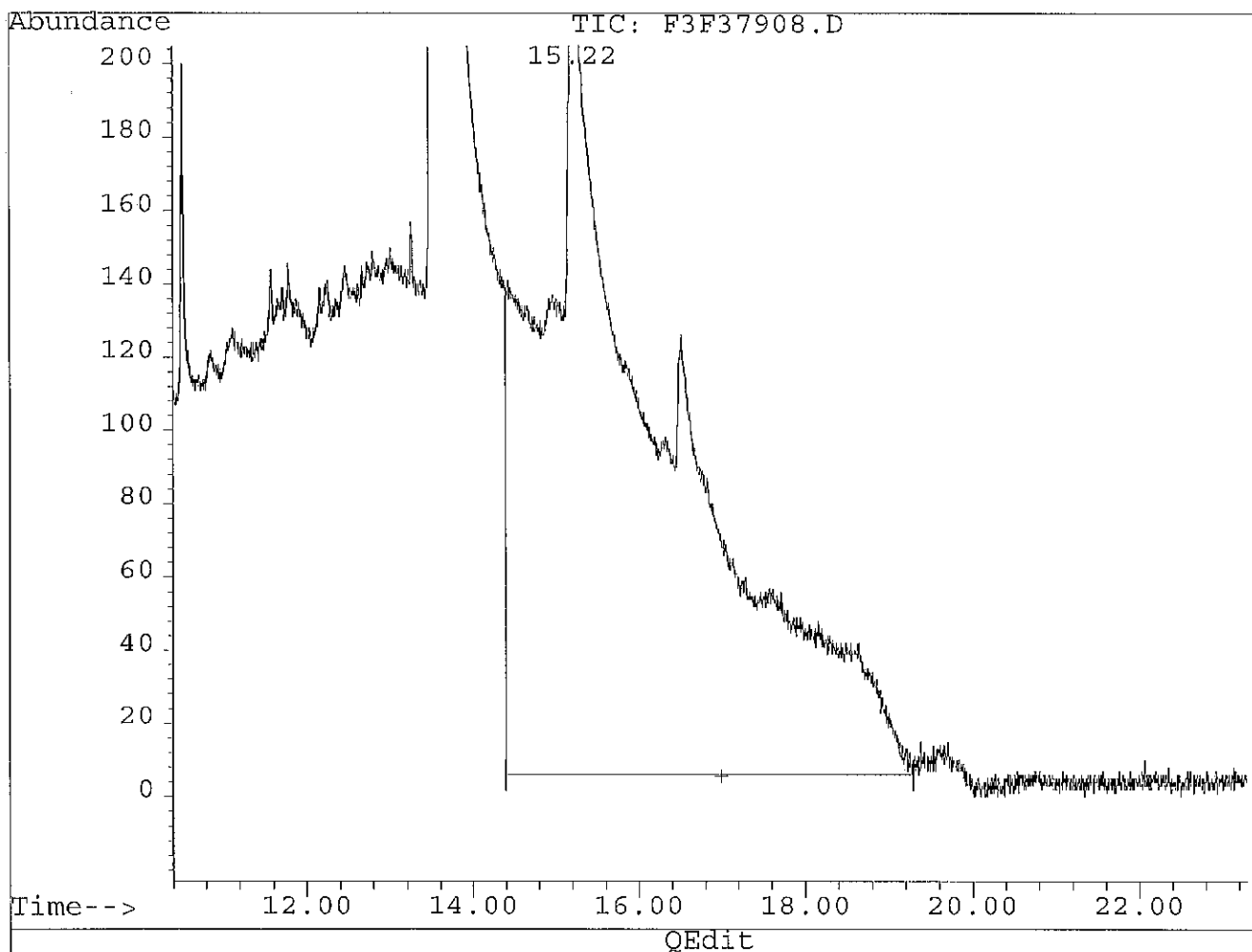
System Monitoring Compounds			
3) S o-terphenyl	13.55	576374	86.74 µg/ml
	Recovery	=	86.74% ✓
Target Compounds			
1) H TEPH	10.00	44624	7.98 µg/ml < MPL
2) H Motor Oil	17.00	17033	5798.86 µg/ml < MPL (NTE)

Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37908.D
 Acq On : 29 Oct 10 06:03 AM
 Sample : 1010128-1
 Misc : water, EX101012-11
 Quant Time: Oct 29 20:47 19110

Vial: 14
 Operator: jfn
 Inst : FUELS 3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
 Title : 8015Bmod, CALuft
 Last Update : Fri Oct 29 20:32:32 2010
 Response via : Multiple Level Calibration



(2) Motor Oil (H)
 17.00min 1.71µg/ml m
 response 23442

before

(+) = Expected Retention Time

F3F37908.D CL102810.M

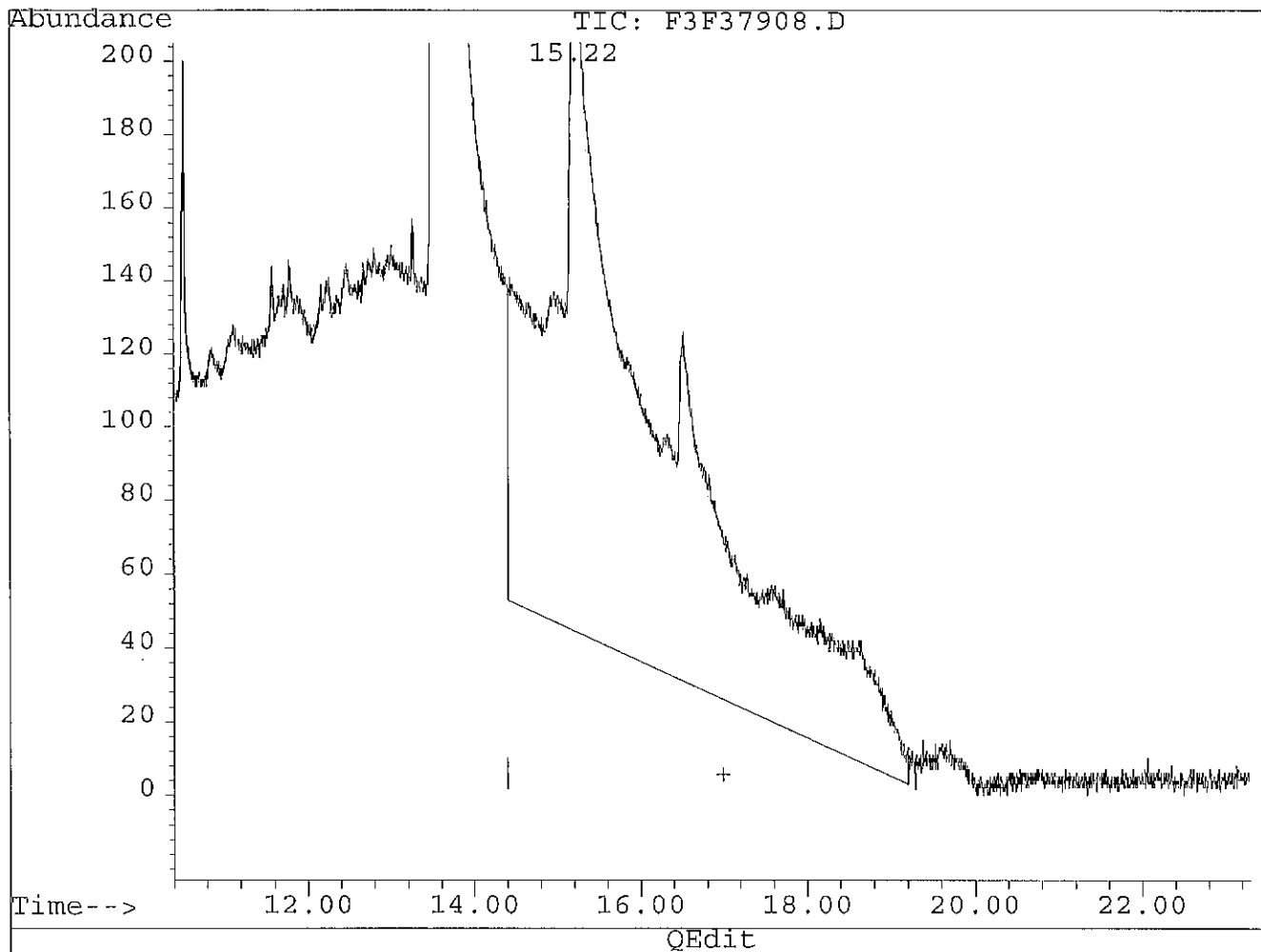
Fri Oct 29 20:48:40 2010

Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37908.D
 Acq On : 29 Oct 10 06:03 AM
 Sample : 1010128-1
 Misc : water, EX101012-11
 Quant Time: Oct 29 20:48 19110

Vial: 14
 Operator: jfn
 Inst : FUELS 3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
 Title : 8015Bmod, CALuft
 Last Update : Fri Oct 29 20:32:32 2010
 Response via : Multiple Level Calibration



(2) Motor Oil (H)
 17.00min 5798.86 μ g/ml m
 response 17033

AFH

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☒ over-integrated peak's area
- ☐ under-integrated peak's area
- ☐ other

initials *AFH* date 11/3/10

(+) = Expected Retention Time

F3F37908.D CL102810.M

Fri Oct 29 20:48:59 2010

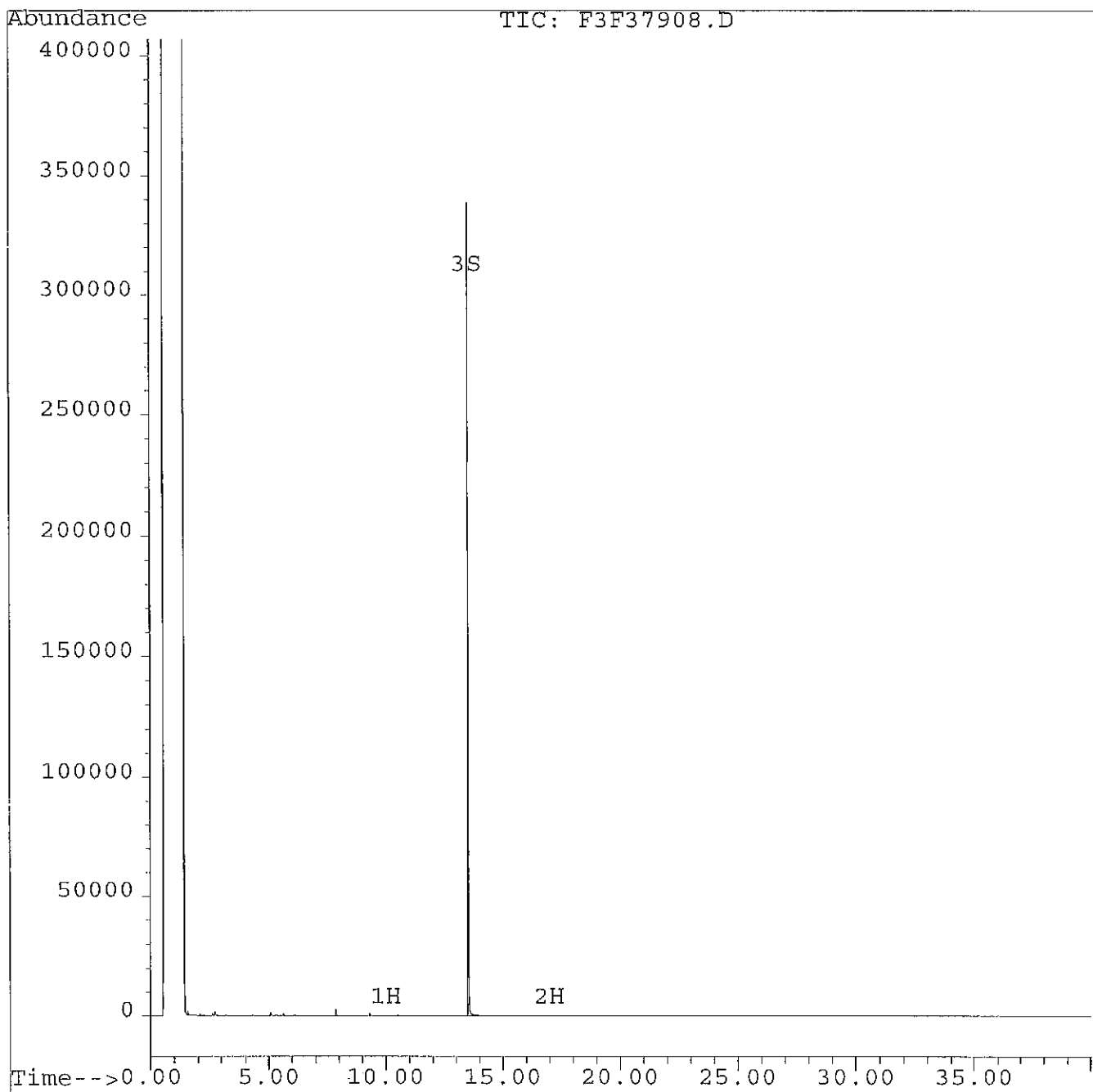
Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37908.D
Acq On : 29 Oct 10 06:03 AM
Sample : 1010128-1
Misc : water, EX101012-11
Quant Time: Oct 29 20:48 19110

Vial: 14
Operator: jfn
Inst : FUELS 3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
Title : 8015Bmod, CALuft
Last Update : Fri Oct 29 20:32:32 2010
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37905.D
 Acq On : 29 Oct 10 03:40 AM
 Sample : EX101012-11LCS
 Misc : water
 Quant Time: Oct 29 20:43 19110

Vial: 11
 Operator: jfn
 Inst : FUELS 3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
 Title : 8015Bmod, CALuft
 Last Update : Fri Oct 29 20:32:32 2010
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5µm
 Signal Info : FID

7th 11310

Compound	R.T.	Response	Conc Units

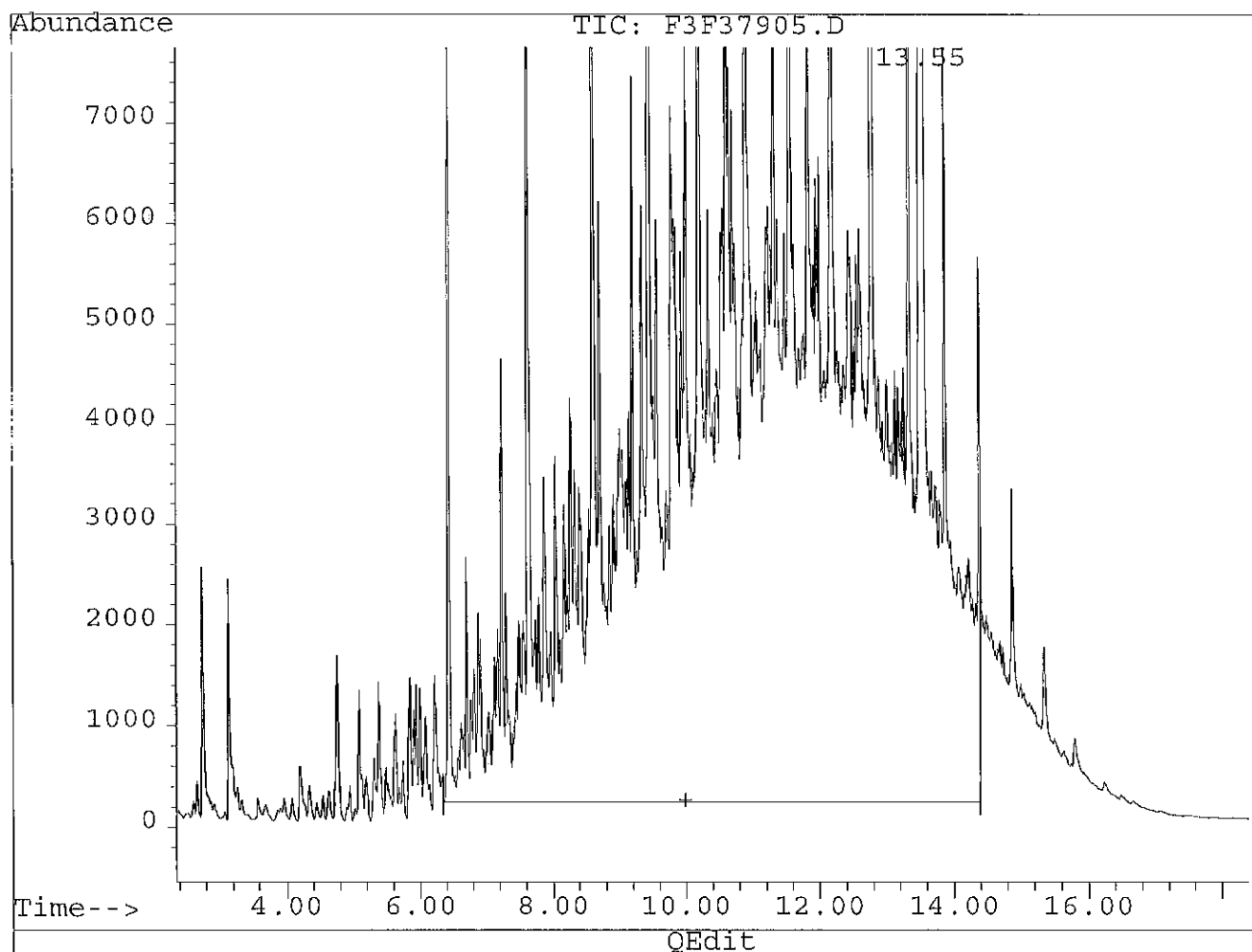
System Monitoring Compounds			
3) S o-terphenyl	13.55	693633	104.39 µg/ml
	Recovery	=	104.39%
Target Compounds			
1) H TEPH	10.00	1877370	335.86 µg/ml 89%
2) H Motor Oil	17.00	133302	37.82 µg/ml 17

Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37905.D
 Acq On : 29 Oct 10 03:40 AM
 Sample : EX101012-11LCS
 Misc : water
 Quant Time: Oct 29 20:42 19110

Vial: 11
 Operator: jfn
 Inst : FUELS 3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
 Title : 8015Bmod, CALuft
 Last Update : Fri Oct 29 20:32:32 2010
 Response via : Multiple Level Calibration



(1)	TEPH	(H)
10.00min	324.44µg/ml m	
response	1813522	

before

(+) = Expected Retention Time

F3F37905.D CL102810.M

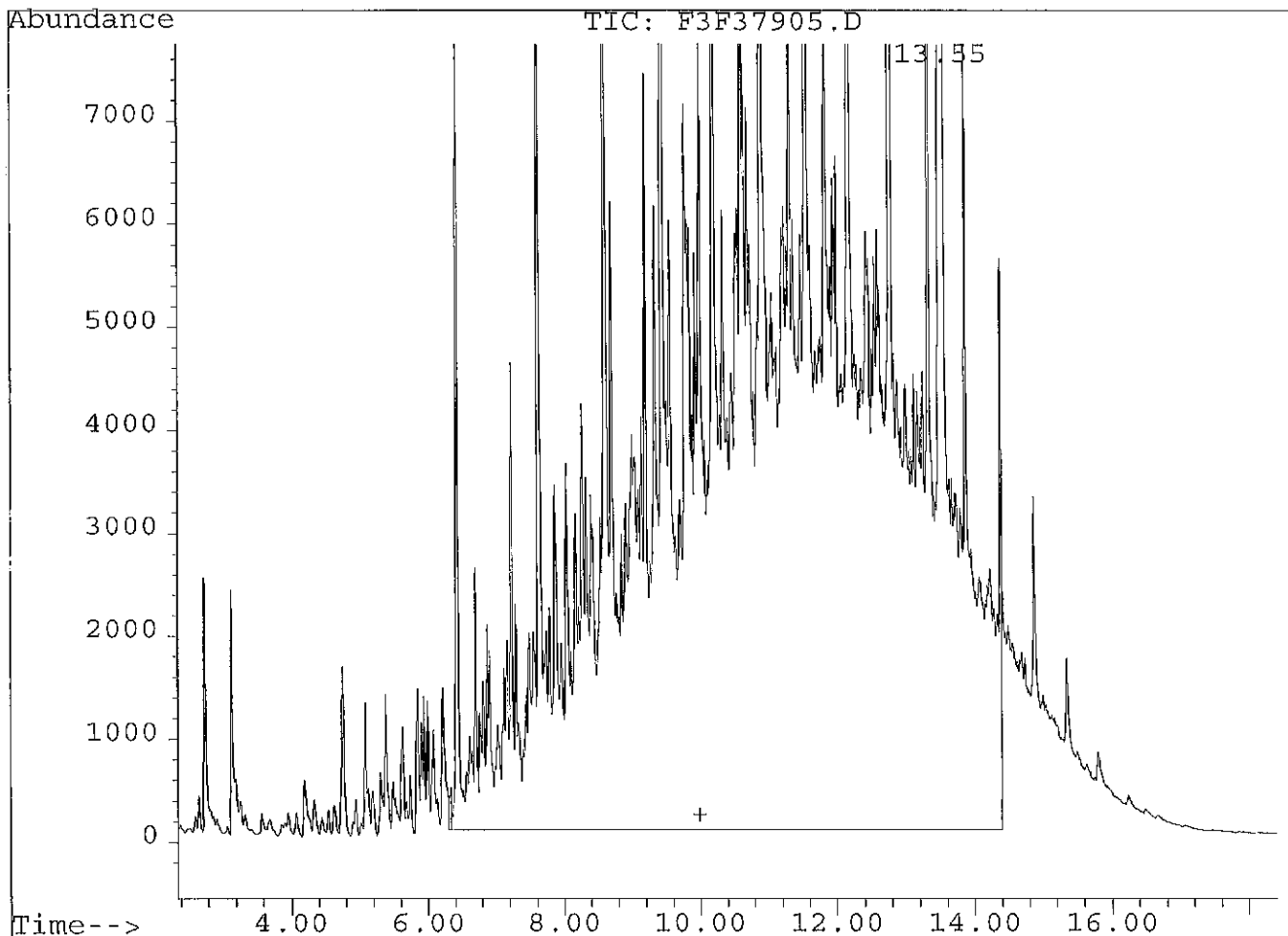
Fri Oct 29 20:42:45 2010

Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37905.D
 Acq On : 29 Oct 10 03:40 AM
 Sample : EX101012-11LCS
 Misc : water
 Quant Time: Oct 29 20:43 19110

Vial: 11
 Operator: jfn
 Inst : FUELS 3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
 Title : 8015Bmod, CALuft
 Last Update : Fri Oct 29 20:32:32 2010
 Response via : Multiple Level Calibration



QEdit

(1) TEPH
 10.00min 335.86µg/ml m
 response 1877370

(H)

AFM

MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other

initials *m* date *11/3/10*

(+) = Expected Retention Time

F3F37905.D CL102810.M

Fri Oct 29 20:43:08 2010

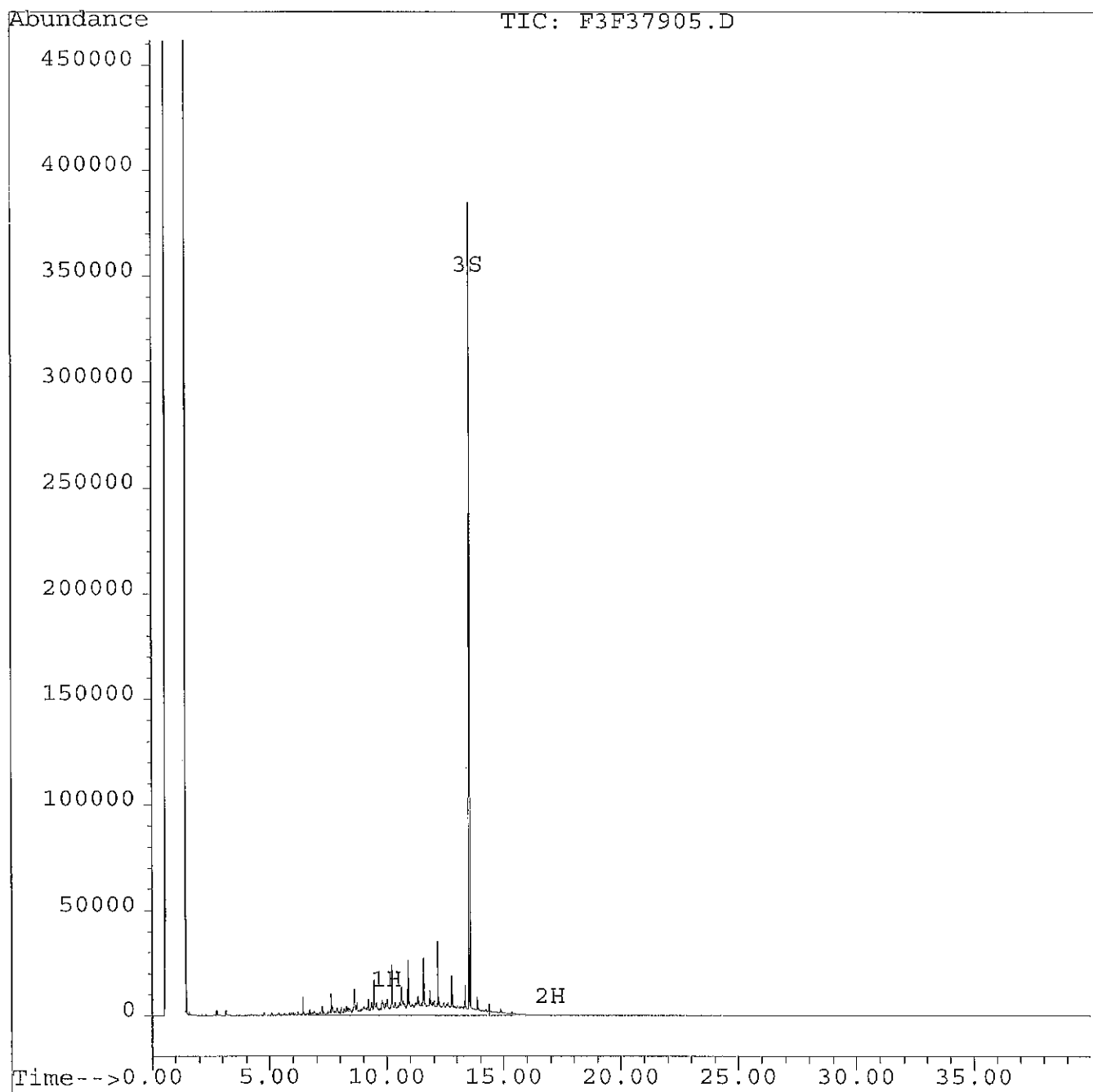
Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37905.D
Acq On : 29 Oct 10 03:40 AM
Sample : EX101012-11LCS
Misc : water
Quant Time: Oct 29 20:43 19110

Vial: 11
Operator: jfn
Inst : FUELS 3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
Title : 8015Bmod, CALuft
Last Update : Fri Oct 29 20:32:32 2010
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID



Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37906.D
 Acq On : 29 Oct 10 04:28 AM
 Sample : EX101012-11LCSD
 Misc : water
 Quant Time: Oct 29 20:44 19110

Vial: 12
 Operator: jfn
 Inst : FUELS 3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
 Title : 8015Bmod, CALuft
 Last Update : Fri Oct 29 20:32:32 2010
 Response via : Multiple Level Calibration

Volume Inj. : 1uL
 Signal Phase : DB-5.625, 30m, 0.25mm 0.5µm
 Signal Info : FID

7u
(1310)

Compound	R.T.	Response	Conc Units

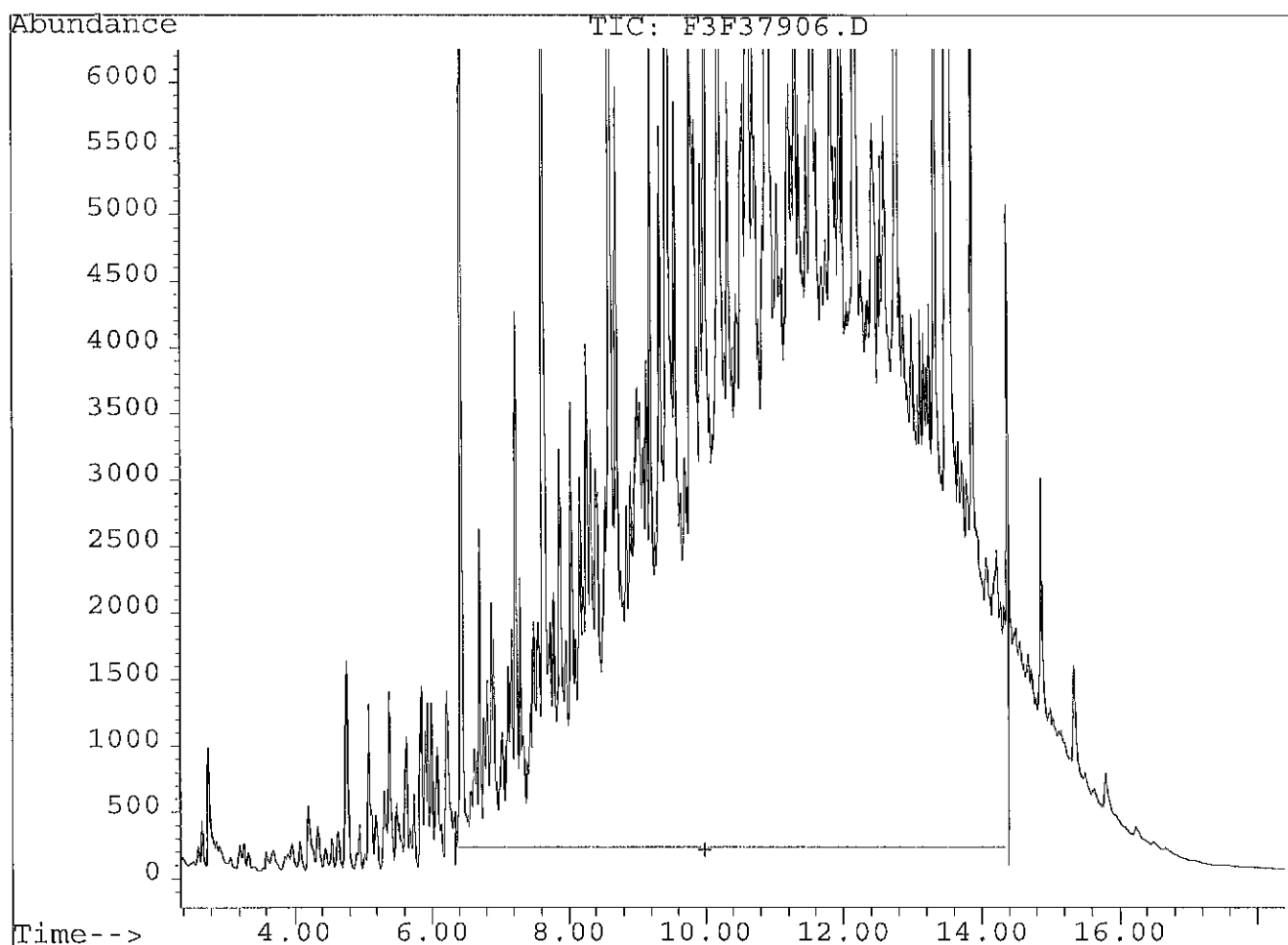
System Monitoring Compounds			
3) S o-terphenyl	13.55	642120	96.63 µg/ml
	Recovery	=	96.63% ✓
Target Compounds			
1) H TEPH	10.00	1807902	323.43 µg/ml <i>81%</i> ✓
2) H Motor Oil	17.00	123051	34.43 µg/ml <i>NA</i>

Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37906.D
 Acq On : 29 Oct 10 04:28 AM
 Sample : EX101012-11LCSD
 Misc : water
 Quant Time: Oct 29 20:43 19110

Vial: 12
 Operator: jfn
 Inst : FUELS 3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
 Title : 8015Bmod, CALuft
 Last Update : Fri Oct 29 20:32:32 2010
 Response via : Multiple Level Calibration



QEdit

(1)	TEPH	(H)
10.00min	309.75 μ g/ml m	
response	1731429	

before

(+) = Expected Retention Time

F3F37906.D CL102810.M

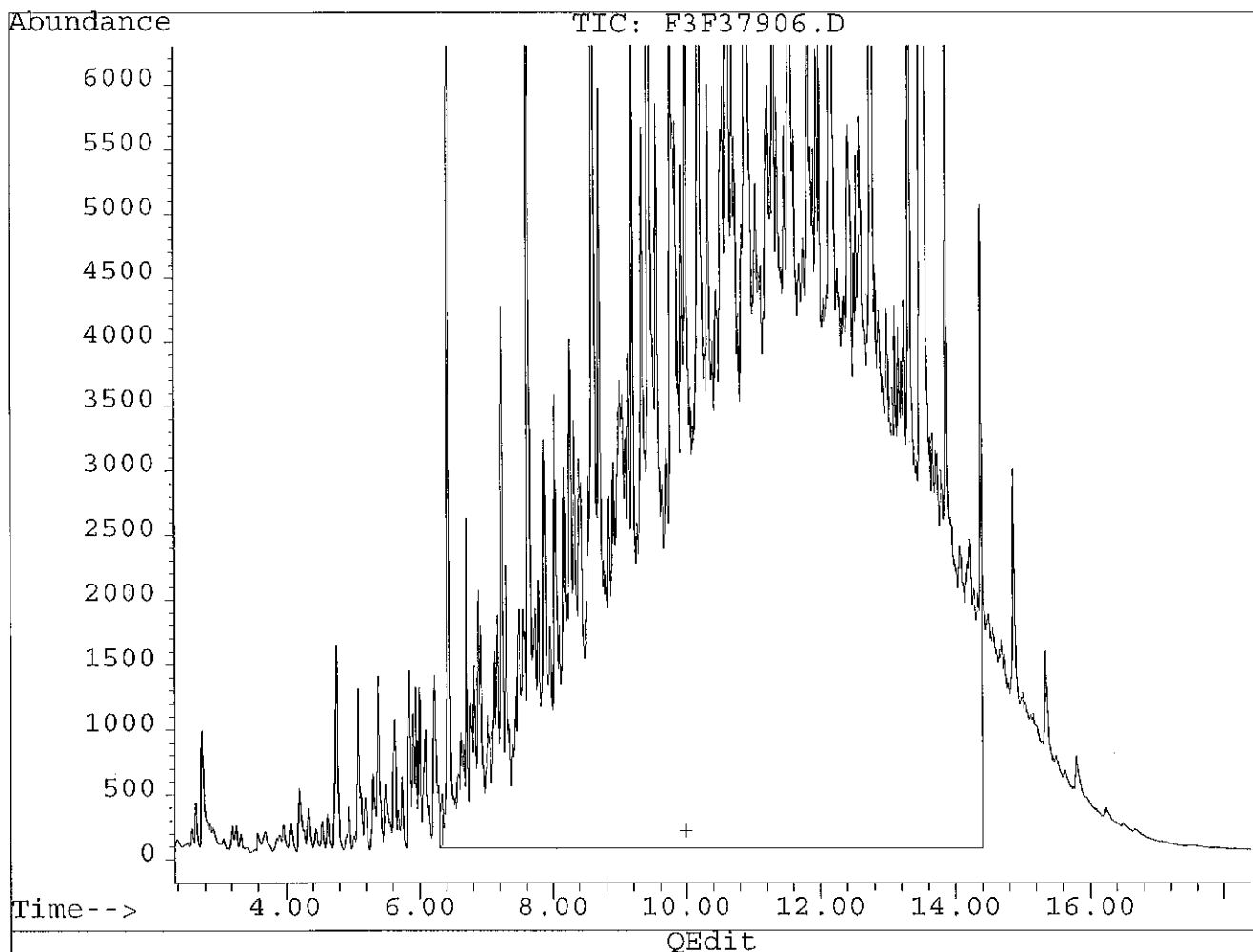
Fri Oct 29 20:43:55 2010

Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37906.D
 Acq On : 29 Oct 10 04:28 AM
 Sample : EX101012-11LCSD
 Misc : water
 Quant Time: Oct 29 20:44 19110

Vial: 12
 Operator: jfn
 Inst : FUELS 3
 Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
 Title : 8015Bmod, CALuft
 Last Update : Fri Oct 29 20:32:32 2010
 Response via : Multiple Level Calibration



(1) TEPH
 10.00min 323.43 μ g/ml m
 response 1807902

(H) *AA*
 MANUAL RE-INTEGRATION

- ☐ missed peak assignment
- ☐ assigned incorrect name to peak
- ☐ over-integrated peak's area
- ☒ under-integrated peak's area
- ☐ other

initials *m* date *11-3-10*

(+) = Expected Retention Time

F3F37906.D CL102810.M

Fri Oct 29 20:44:51 2010

Quantitation Report

Data File : C:\HPCHEM\5\DATA\10282010\F3F37906.D
Acq On : 29 Oct 10 04:28 AM
Sample : EX101012-11LCSD
Misc : water
Quant Time: Oct 29 20:44 19110

Vial: 12
Operator: jfn
Inst : FUELS 3
Multiplr: 1.00

Method : C:\HPCHEM\5\METHODS\CL102810.M
Title : 8015Bmod, CALuft
Last Update : Fri Oct 29 20:32:32 2010
Response via : Multiple Level Calibration

Volume Inj. : 1uL
Signal Phase : DB-5.625, 30m, 0.25mm 0.5 μ m
Signal Info : FID

