908 North Temperance Ave. ∇ Clovis, CA 93611 ∇ Phone 559-275-2175 ∇ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: 05233CA
DoD-ELAP Certificate number: ADE-1410

Data Validatable Report

December 12, 2011

Environet, Inc.
650 Iwilei Road, #204
Honolulu, HI 96817

Attn: Stacey Fineran

Title: Report of Data: Case 66186

Project: 1022-024 LTM Red Hill Bulk Fuel Storage Facility

Contract #: Prime contract # for DoD: N62742-08-D-1930, CTO HC21

Dear Ms. Fineran:

Samples were received November 3, 2011, in good condition. Written results for the requested analyses are provided on this December 12, 2011.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

The MADEP-EPH and VPH analyses were subcontracted to Gulf coast Analytical Laboratories, Inc.

If you have any questions or require further information, please contact your APPL Project Manager, Diane Anderson, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Sharon Dehmlow, Laboratory Director
APPL, Inc.

SD/sdm
Enclosure
cc: File

Number of pages in this report: 327

Data Validation Package
for

LTM Red Hill Bulk Fuel Storage Facility

SDG 66186

TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

SAMPLE RECEIPT INFORMATION

Sample receipt information

ARF: 66186

Project: 1022-024 LTM Red Hill Bulk Fuel Storage Facility

Sample Receipt Information:

The samples were received on November 3, 2011, at 3.0°C. The samples were assigned Analytical Request Form (ARF) number 66186. The sample numbers and requested analysis were compared to the chains of custody and email communications. No other exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES056	AY50004	WATER	11/2/2011	11/3/2011
ES057	AY50005	WATER	11/2/2011	11/3/2011

Samples and blanks were screened for J-value responses between the detection limit (DL) and limit of quantitation (LOQ).

APPL's laboratory control limits generated in house statistically do not meet the control limits listed in DoD QSM 4.2 for all analytes. Laboratory control spike recoveries for this project meet all control limits listed in the DoD QSM 4.2 except where noted. A copy of our in house generated control limits is available upon request. In addition, a copy of our LOQ control limits, established using 7 data points, are also available upon request.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request.

Measurement uncertainty can be reported upon request.

CASE NARRATIVE

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

The water samples were extracted according to EPA method 3510C. The samples were extracted within holding time.

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a flame ionization detector.

Quality Control/Assurance

Calibrations:

Initial and continuing calibrations were performed according to the method. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limit in the method blank.

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. All acceptance criteria were met.

No sample was designated for MS/MSD analysis.

Surrogates:

The surrogate recoveries are summarized on the form 2 & 8. All surrogate recoveries were within control limits.

Summary:

No other problem was encountered

EPA Method 8270D SIM

Polynuclear Aromatic Hydrocarbons

Sample Preparation:

The water sample was extracted according to EPA method 3510C. All holding times were met.

Sample Analysis Information:

The sample was analyzed according to EPA method 8270D using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector in selective ion monitoring mode.

Quality Control/Assurance

Calibrations:

Initial and continuing calibrations were performed according to the method. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limits in the method blank.

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. All spike criteria were met.

No sample was designated for MS/MSD analysis.

Surrogates

Surrogate recoveries are summarized on the forms 2&8. All surrogate recoveries were within control limits.

Tuning:

The instrument was tuned using DFTPP. All method criteria were met.

Internal Standards

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8270. All method criteria were met.

Summary:

No problem was encountered.

EPA Method 8260B

Volatile Organic Analysis

Sample Preparation:

The water samples were purged according to EPA method 5030B. All holding times were met.

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All holding times were met.

Quality Control/Assurance:

Calibrations:

Initial and continuing calibrations were performed according to the method. All system performance check compounds and calibration check compounds met DoD acceptance criteria. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limits in the method blanks.

Spikes:

Laboratory Control Spikes (LCS) were used for quality assurance. A second-source standard was used for the LCS. All second-source and LCS criteria were met.

There was no sample designated for MS/MSD analysis.

Surrogates:

Surrogate recoveries are summarized on Form 2 & 8. All surrogate recoveries were within the acceptance limits.

Tuning:

The instrument was tuned using BFB. All method criteria were met.

Internal Standards:

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8260. All method criteria were met.

Summary:

No other problem was encountered. The data generated are acceptable.

EPA Method 6020

Dissolved Lead

Digestion Information:

The water samples were digested according to EPA methods 3015. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed for dissolved lead according to EPA method 6020 using an Agilent 7500CX ICP-MS.

Calibrations:

The initial and continuing calibrations were analyzed according to the DoD QSM. The initial calibration verification is prepared from a second source standard.

Blanks:

No metal was detected at or above one-half the LOQ in the method blank.

Spikes:

Laboratory Control Spike (LCS), matrix spikes (MS/MSD), post digestion spike (PDS), and serial dilution were used for quality assurance. All LCS recoveries were within the acceptance limits.

Sample ES053 (ARF 66133) was designated by the laboratory as QC sample for the analytical batch. The PDS and DT are reported in ARF 66133.

Summary:

No analytical exception is noted.

CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

_____

Sharon Dehmlow, Laboratory Director / Date

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
M1	Manual integration: integration does not follow baseline
M2	Manual integration: non-target peak interference
M3	Manual integration: to split a peak that was integrated as one peak by the computer
M4	Manual integration: to integrate a split peak
M5	Manual integration: the whole peak or part of the peak was not integrated
M6	Manual integration: computer integrated wrong peak
M7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION

APPL - Analysis Request Form 66186

Client: **Environet, Inc.**
Address: **650 Iwilei Rd, #204**
Honolulu, HI 96817
Attn: **Stacey Fineran**
Phone: **808-833-2225** Fax: **808-833-2231**
Job: **RED HILL/1022-024**
PO #: **1022-024**
Chain of Custody (Y/N): **Y** # **1853**
RAD Screen (Y/N): **Y** pH (Y/N): **Y**
Turn Around Type: **2 WEEKS**

Received by: **TBV**
Date Received: **11/03/11** Time: **10:15**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone: **HAST**
Chest Temp(s): **3.0°C**
Color: **VOA,A-GRN,SUB,R-OYEL**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Cynthia Clark**
QC Report Type: **DVP4/ADRDOD/HI**
Due Date: **11/17/11**

Comments:
14 day TAT for Form 1s & 30 day TAT for full package. VDupra@environetinc.com
1 pdf on CD or FTP (no hard copy), NO hard copy to LDC per Stacy 2-24-11
Guidance: DOD QSM, DoD Forms, J flag to DL, U flag at LOD
EDD ADR A1/A3 (ADR 8.3a unchecked) to VDupra@ & sfineran@environetinc.com
metals 6020: report Lead with 0.5ug/L RL
TPH-Diesel only; VOCs: include gasoline by 8260B
MA-EPH & VPH subcontracted to Gulf Coast Analytical.

Sample Distribution:
GC: 1-$SIMHC12W, 1-$TPETD2
Extractions: 1-_SEP004S, 1-_SEP011
VOA: 2-$86RHBF
Metals: 1-$602D(Pb)
Other: 1-_M3015, 1-SUB

Charges:

Invoice To: same

Client ID	APPL ID	Sampled	Analyses Requested
1. ES056	AY50004	11/02/11 07:00	$86RHBF -- unpreserved VOA vials
2. ES057	AY50005	11/02/11 11:05	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2, SUB -- unpreserved VOA vials

APPL Sample Receipt Form

ARF# **66186**

Sample	Container Type	Count	pH
AY50004	[15] VOAs - NP	1	NA
AY50005	[6] PL 500mL - HNO3	1	1.7
	[13] VOAs - HCL	3	NA
	[15] VOAs - NP	4	NA
	[17] Amber Liter	3	NA
	[26] Other	2	NA

Sample	Container Type	Count	pH

66186
3.0

APPL, INC

APPL, Inc. 908 N Temperance Ave, Clovis, CA 93611
Phone: 559-275-2175 Fax: 559-275-4422

CHAIN OF CUSTODY RECORD

Client: Environet Inc.	~~Person~~ Geographic Lead	Date: 11-2-11	Chain of Custody Number: 1995
Address: 650 Iwilei Road	Telephone Number (Area Code)/Fax Number: 808-833-2225	Lab Number: 559 275-2175	Page: 1 of 1
City: Honolulu / State: HI / Zip Code: 96817	Site Contact	Lab Contact: *Diane Anderson*	Analysis (Attach list if more space is needed)
Project Name and Location (State): Red Hill Bulk Storage Facility HI	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: 1022-024			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: AQ	Sed.	Soil		Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH		TPH-GRO	VOCs	TPH-DRO	PAHs	dissolved Lead	MADEP-VPH	MADEP-EPH			Firing Point	High Lead	HE Site	Special Instructions/ Conditions of Receipt
ES056	11-2-11	0700	X				1								X											
ES057	11-2-11	1105	X				5			1	7			X	X	X	X	X	X	X						
Temp Blank			X				1																			

1. Relinquished By	Date: 11-2-11	Time: 13:22	1. Received By	Date: 11/3/11	Time: 1015
2. Relinquished By	Date	Time	2. Received By	Date	Time

Comments **Fed Ex Priority Overnight**

# of Coolers this Shipment

DISTRIBUTION: WHITE - Returned to Client with Report Canary - Stays with the Sample Pink - Field Copy

COOLER RECEIPT FORM -

1) Project: LTM Red Hill Bulk Fuel Storage Facility Date Received: 11/3/11

2) Coolers: Number of Coolers: 1

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/2/11

5) Name on seal? See label below

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 8764-1283-2410 2) 3)

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Zip Lock Bubble wrapped - wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 3.0°C 2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea:

Smaller than a pea:

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF? 11/3/11

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Second reviewer:

Signature of project manager notified: Date and Time of notification:

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

CUSTODY SEAL
APPL, Inc. (559) 275-2175
Date 11-2-11
Initials

EPA 8015 Modified
Total Petroleum Hydrocarbons

APPL, INC.

EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary

APPL, INC.

Method Blank
TPH Diesel Water

Blank Name/QCG: **111108W-50005 - 161797**
Batch ID: #TPETD-111108A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	11/08/11	11/11/11
BLANK	SURROGATE: OCTACOSANE (S)	78.6	28-142			%	11/08/11	11/11/11
BLANK	SURROGATE: ORTHO-TERPHEN	78.5	57-132			%	11/08/11	11/11/11

Quant Method:TPH1108.M
Run #:1110052
Instrument:APOLLO
Sequence:111110
Initials:LA

GC SC-Blank-REG MDLs
Printed: 11/30/11 2:44:01 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66186

Case No: 66186 Date Analyzed: 11/11/11

Matrix: WATER Instrument: APOLLO

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111108A-BLK	Blank	28-142	78.6		57-132	78.5	
111108A-LCS	Lab Control Spike	28-142	82.7		57-132	94.0	
AY50005	ES057	28-142	73.2		57-132	70.9	

Comments: Batch: #TPETD-111108A

Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **111108W-50005 LCS - 161797**
Batch ID: #TPETD-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1620	81.0	61-143
SURROGATE: OCTACOSANE (S)	150	124	82.7	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	141	94.0	57-132

Comments:

Primary	SPK
Quant Method :	TPH1108.M
Extraction Date :	11/08/11
Analysis Date :	11/11/11
Instrument :	APOLLO
Run :	1110053
Initials :	LA

Printed: 11/30/11 2:43:55 PM

APPL Standard LCS

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66186

Case No: 66186 Date Analyzed: 11/11/11

Matrix: WATER Instrument: APOLLO

Blank ID: 111108A-BLK Time Analyzed: 0605

APPL ID.	Client Sample No.	File ID.	Date Analyzed
111108A-BLK	Blank	1110052	11/11/11 0605
111108A-LCS	Lab Control Spike	1110053	11/11/11 0628
AY50005	ES057	1110055	11/11/11 0715

Comments: Batch: #TPETD-111108A

EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data

APPL, INC.

TPH Diesel Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024
Sample ID: ES057
Sample Collection Date: 11/02/11

ARF: 66186
APPL ID: AY50005
QCG: #TPETD-111108A-161797

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	210 ++	150	80.8	40.4	ug/L	11/08/11	11/11/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	73.2	28-142			%	11/08/11	11/11/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	70.9	57-132			%	11/08/11	11/11/11

++(T6) The analyst has noted that the chromatogram of this sample is mainly a match to hydrocarbons within the range of diesel fuel.

Quant Method: TPH1108.M
Run #: 1110055
Instrument: APOLLO
Sequence: 111110
Dilution Factor: 1
Initials: LA

Printed: 11/30/11 2:43:58 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\111110\1110055.D Vial: 55
Acq On : 11-11-11 7:15:54 Operator: LAC
Sample : AY50005W07 5/1030 Inst : Apollo
Misc : Water Multiplr: 4.85
IntFile : events.e
Quant Time: Nov 30 14:31 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Nov 14 13:54:20 2011
Response via : Multiple Level Calibration

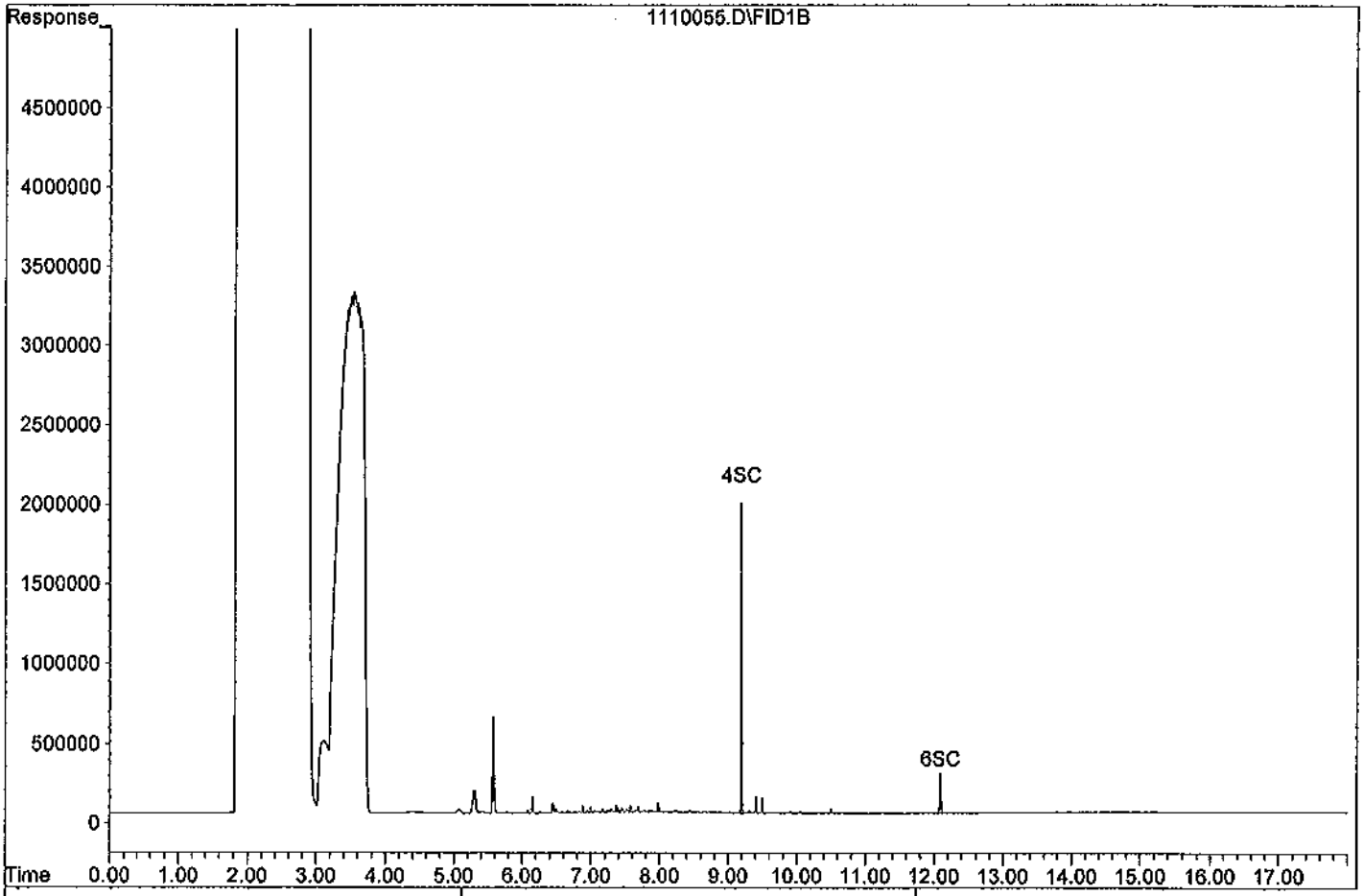
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

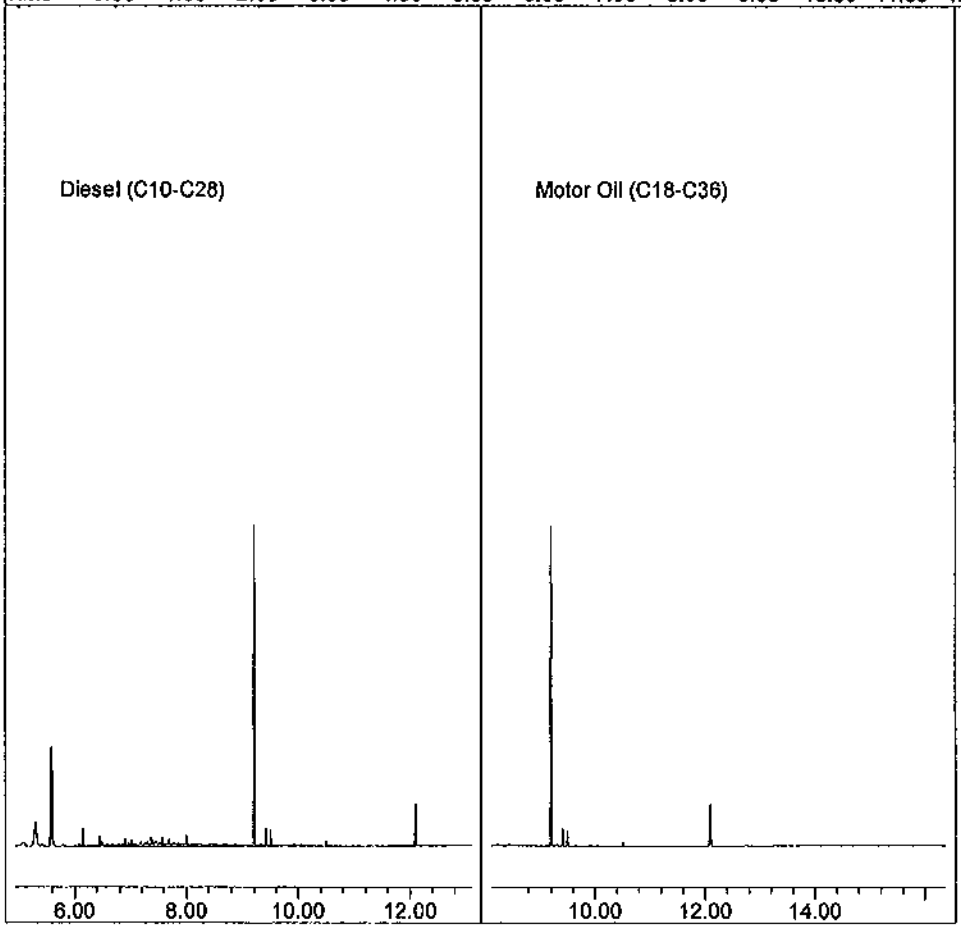
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.20	12911497	103.246 ppb
Surrogate Spike 145.631		Recovery =	70.90%
6) SC Octacosane(S)	12.10	3378806	106.609 ppb
Surrogate Spike 145.631		Recovery =	73.20%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	24041572	211.437 ppb

TB LAC 11/30/11

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

Data File: G:\APOLLO\DATA\111110\1110055.D
Sample : AY50005W07 5/1030





EPA 8015 Modified
Total Petroleum Hydrocarbons

Calibration Data

APPL, INC.

TPH Extractables
TPH1108

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66186
Case No: Initial Cal. Date: 11/08/11
Matrix: Instrument: Apollo
Initials: LAC

			1108069.D	1108018.D	1108019.D	1108020.D	1108021.D	1108022.D									
		Compound	1	2	3	4	5	6					Avg	%RSD			
1	HATML	Diesel (C10-C28)	613132	243101	243681	243678	244044	245201					305473	49	HATML	1.000	
2	HBTM	Motor Oil (C18-C36)	140437	99632	104190	111186	116539	125373					116226	13	HBTM		
3	SA	Not Used(S)	302444	320737	318016	323983	383528	387566					339379	11	SA		
4	SC	Ortho-Terphenyl(S)	292692	322827	291343	308250	301021	305069					303534	3.8	SC		
5	SA	Not Used2(S)		81698	75651	78041	78921	79877					78838	2.8	SA		
6	SC	Octacosane(S)	74061	79772	73618	77274	77396	79433					76925	3.4	SC		
7																	
8																	
9																	
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2.3712952

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108005.D Vial: 5
Acq On : 11-8-11 15:50:59 Operator: LAC
Sample : DIESEL 100/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

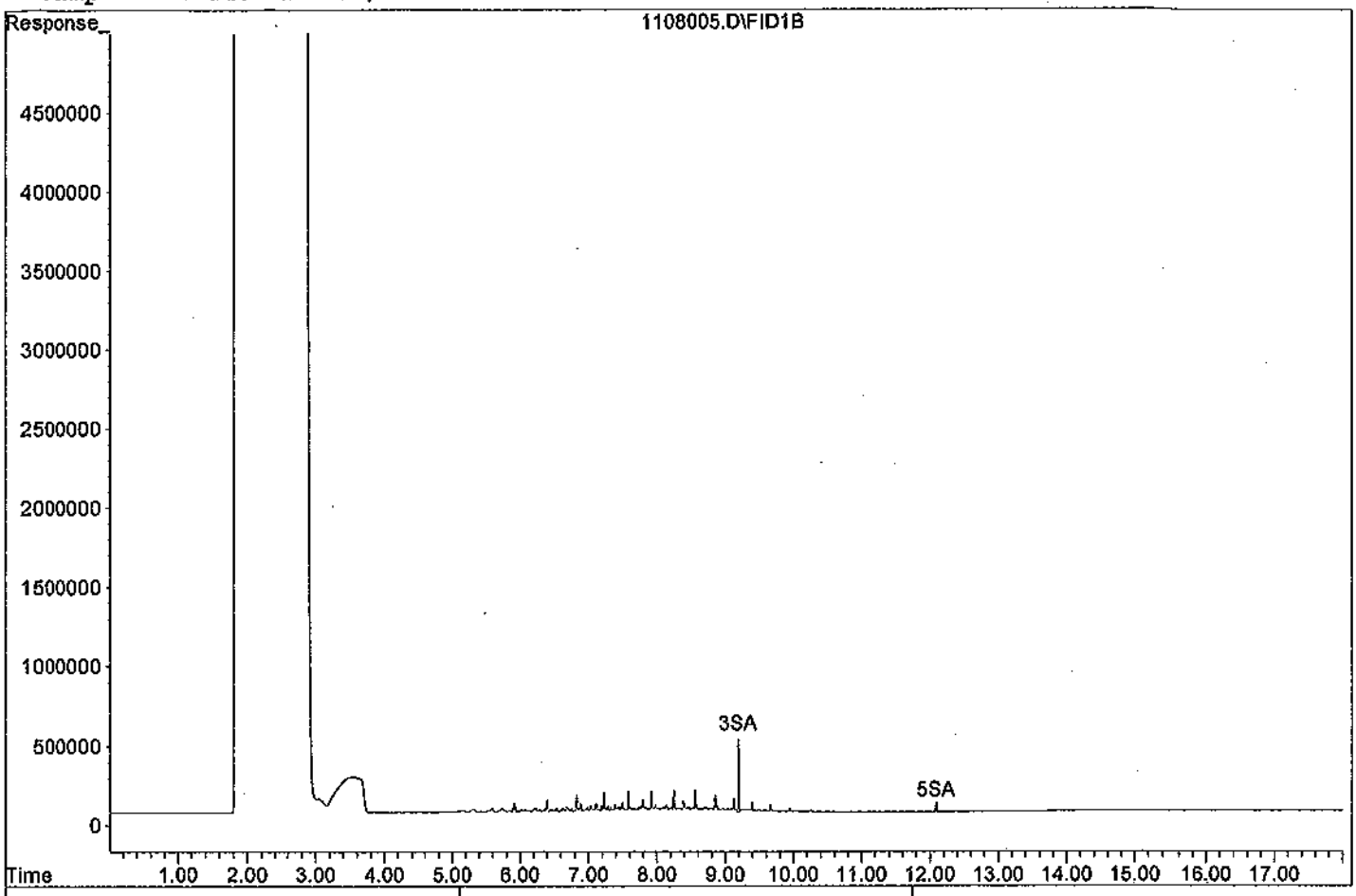
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

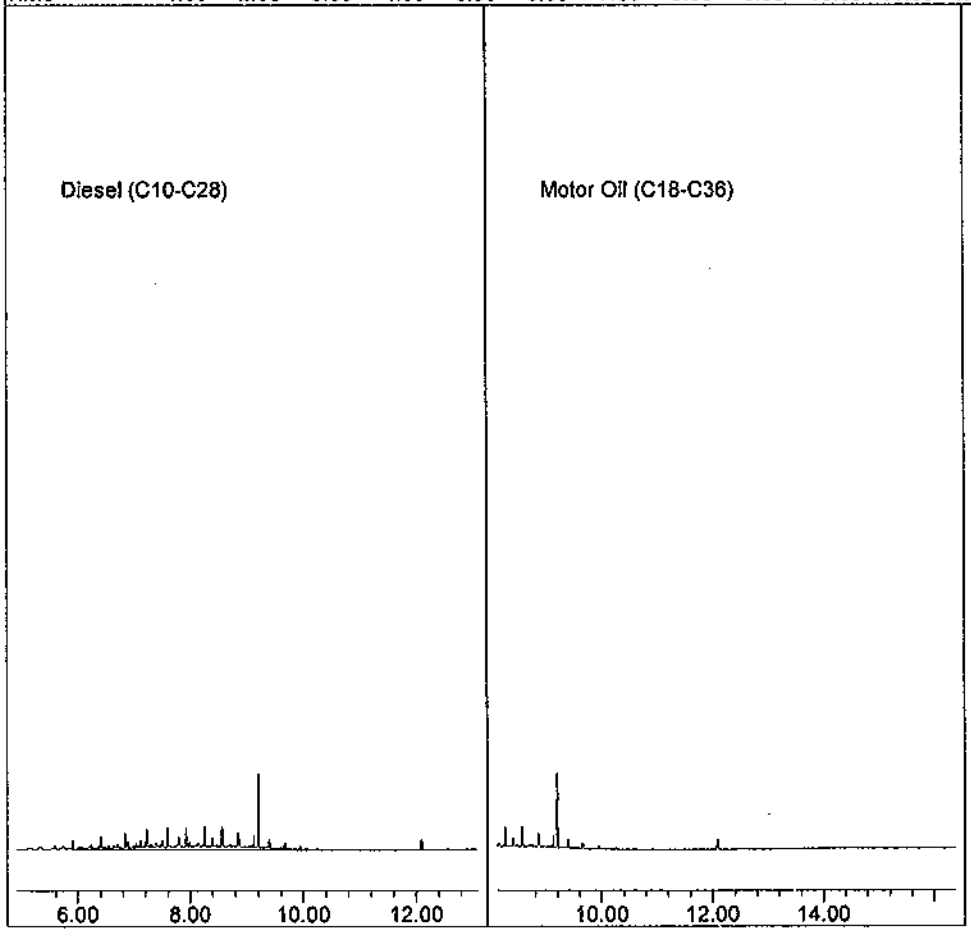
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.20	3207373	2.983 ppb
Surrogate Spike 30.000	Recovery	=	9.94%
5) SA Not Used2(S)	12.09	816983	1.649 ppb
Surrogate Spike 30.000	Recovery	=	5.50%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	48620150	57.751 ppb

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

Data File: G:\APOLLO\DATA\111108\1108005.D
Sample : DIESEL 100/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108006.D Vial: 6
Acq On : 11-8-11 16:14:36 Operator: LAC
Sample : DIESEL 400/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

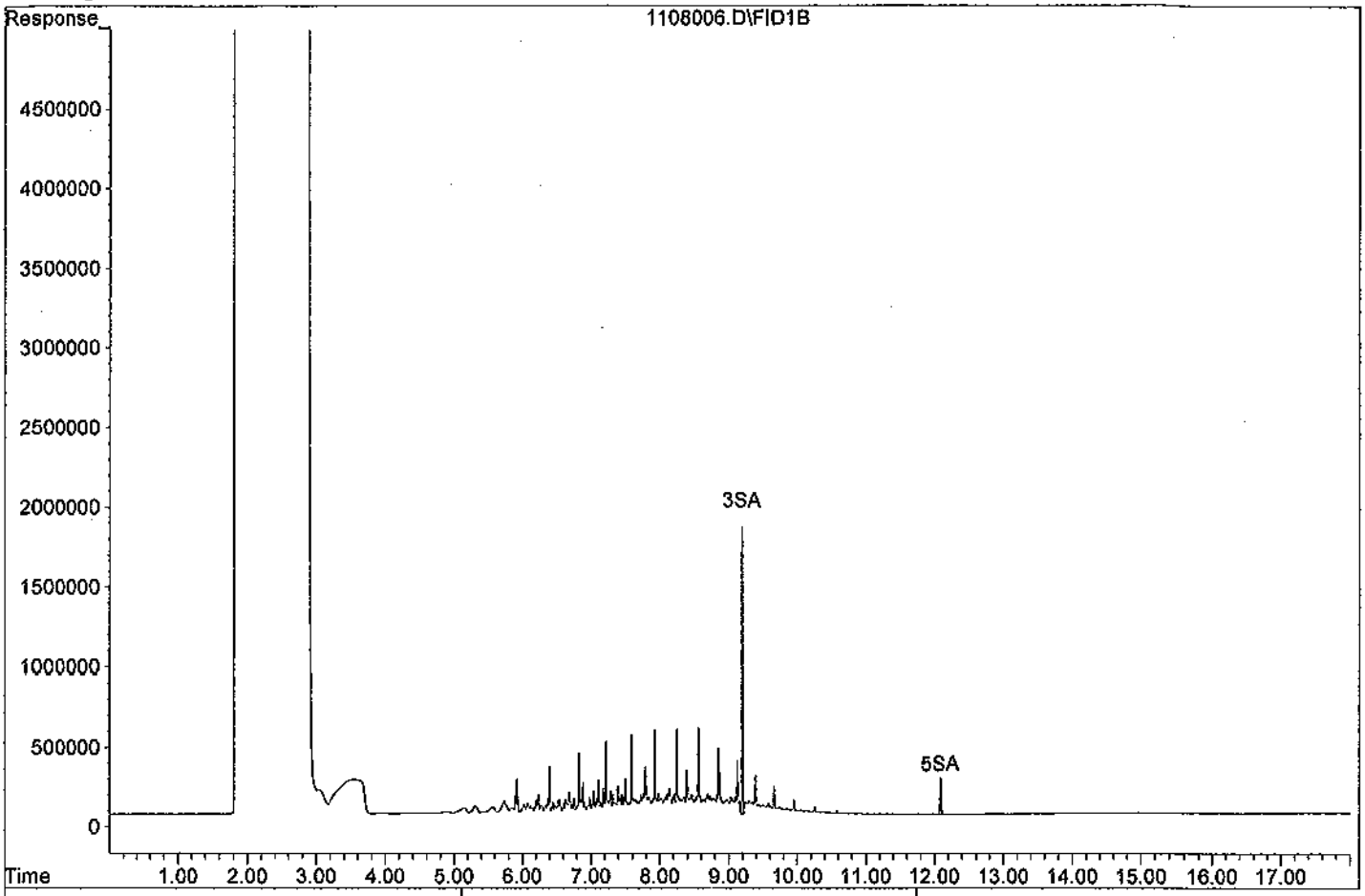
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

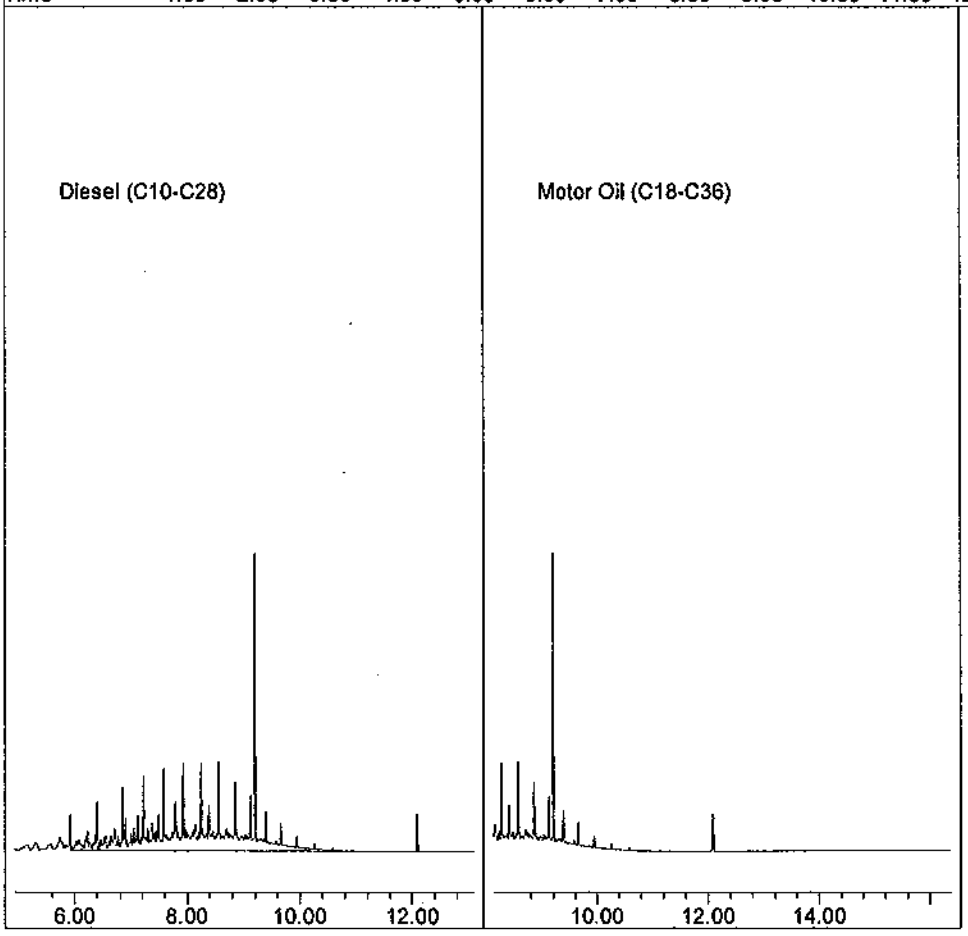
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.20	12720627	11.832 ppb
Surrogate Spike 30.000	Recovery =		39.44%
5) SA Not Used2(S)	12.09	3026041	6.108 ppb
Surrogate Spike 30.000	Recovery =		20.36%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	194945056	231.556 ppb

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

Data File: G:\APOLLO\DATA\111108\1108006.D
Sample : DIESEL 400/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108007.D Vial: 7
Acq On : 11-8-11 16:38:14 Operator: LAC
Sample : DIESEL 600/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

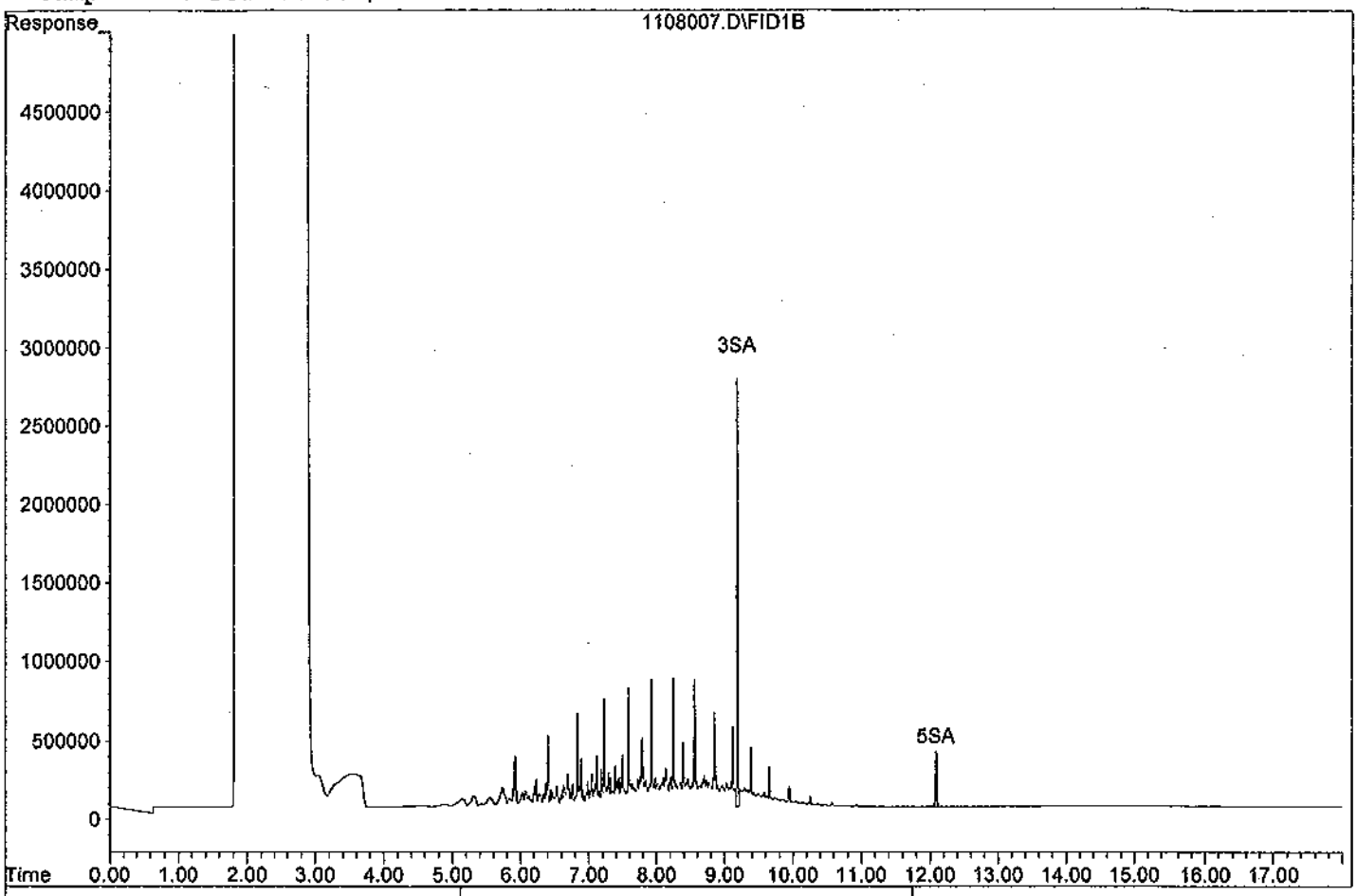
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

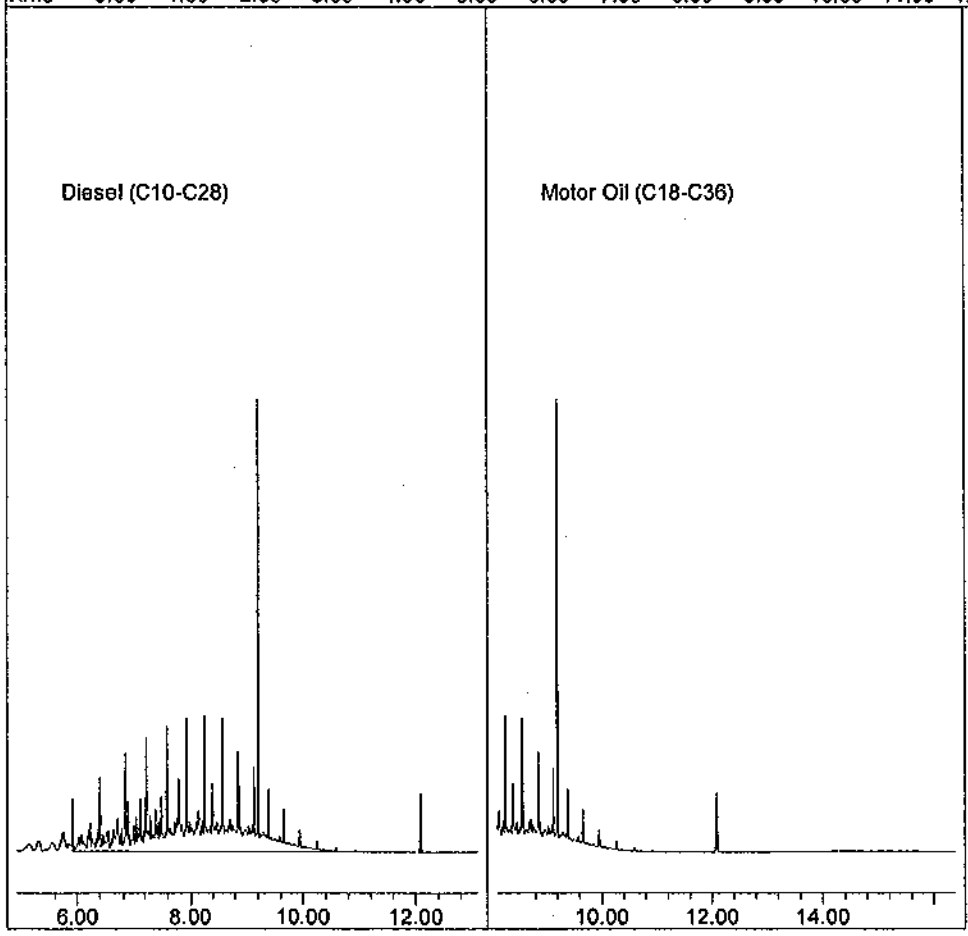
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.20	19438997	18.081 ppb
Surrogate Spike 30.000	Recovery =		60.27%
5) SA Not Used2(S)	12.09	4682445	9.451 ppb
Surrogate Spike 30.000	Recovery =		31.50%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	292413883	347.330 ppb

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

Data File: G:\APOLLO\DATA\111108\1108007.D
Sample : DIESEL 600/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108008.D Vial: 8
Acq On : 11-8-11 17:01:53 Operator: LAC
Sample : DIESEL 800/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

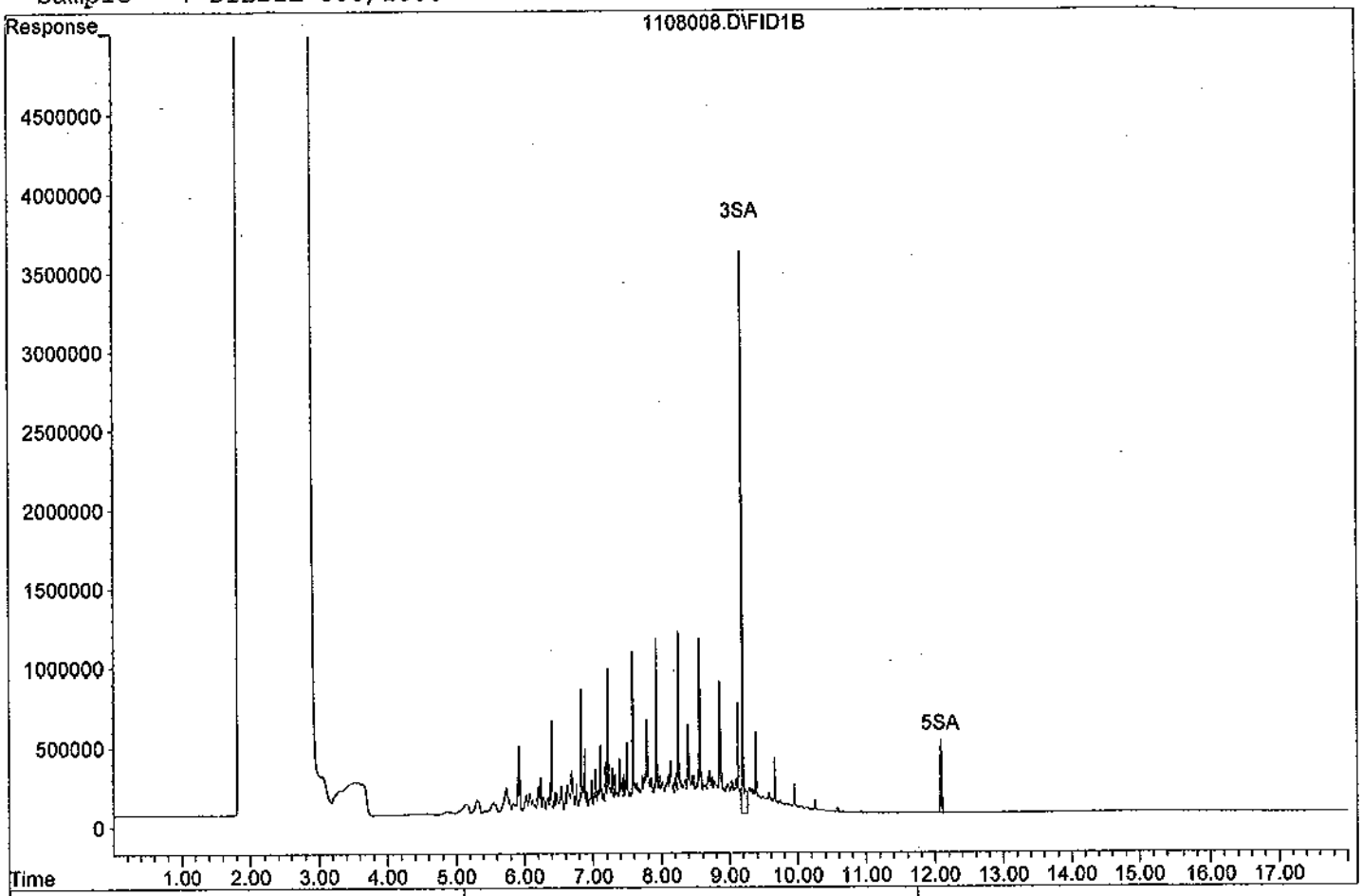
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

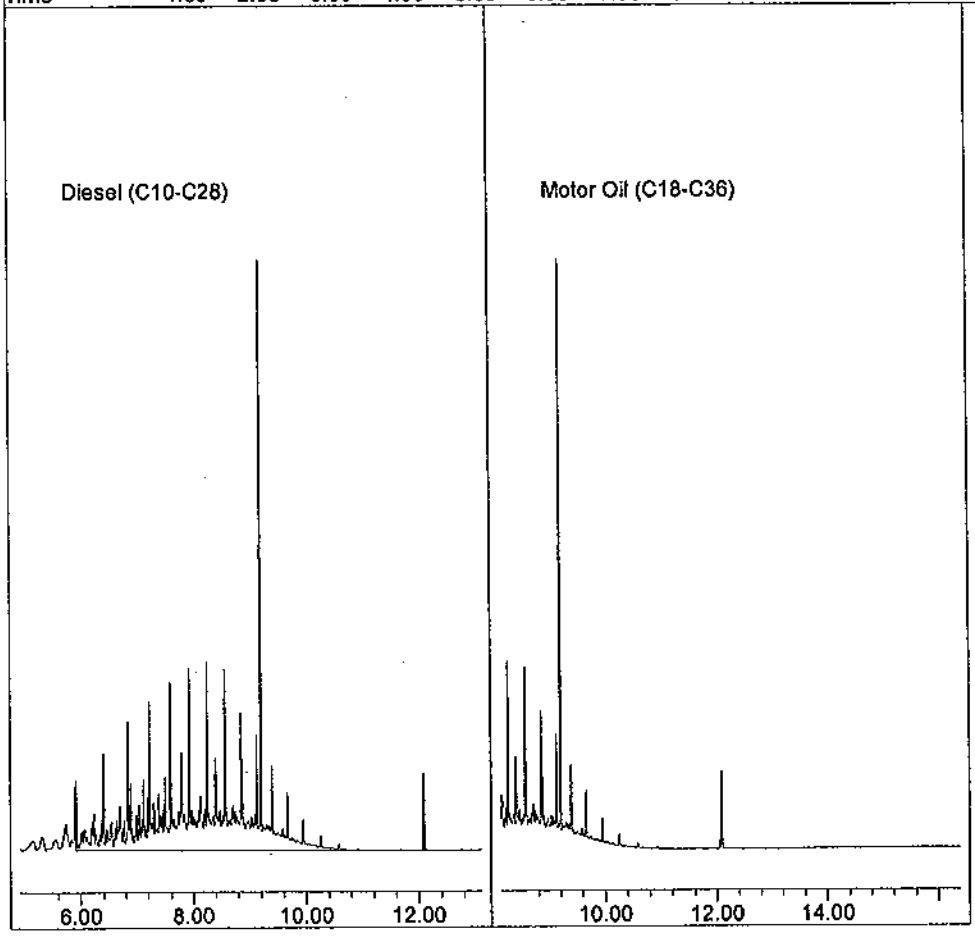
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.20	30682231	28.538 ppb
Surrogate Spike 30.000	Recovery =		95.13%
5) SA Not Used2(S)	12.09	6313667	12.744 ppb
Surrogate Spike 30.000	Recovery =		42.48%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	390470225	463.801 ppb

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

Data File: G:\APOLLO\DATA\111108\1108008.D
Sample : DIESEL 800/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108009.D Vial: 9
Acq On : 11-8-11 17:25:32 Operator: LAC
Sample : DIESEL 1000/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

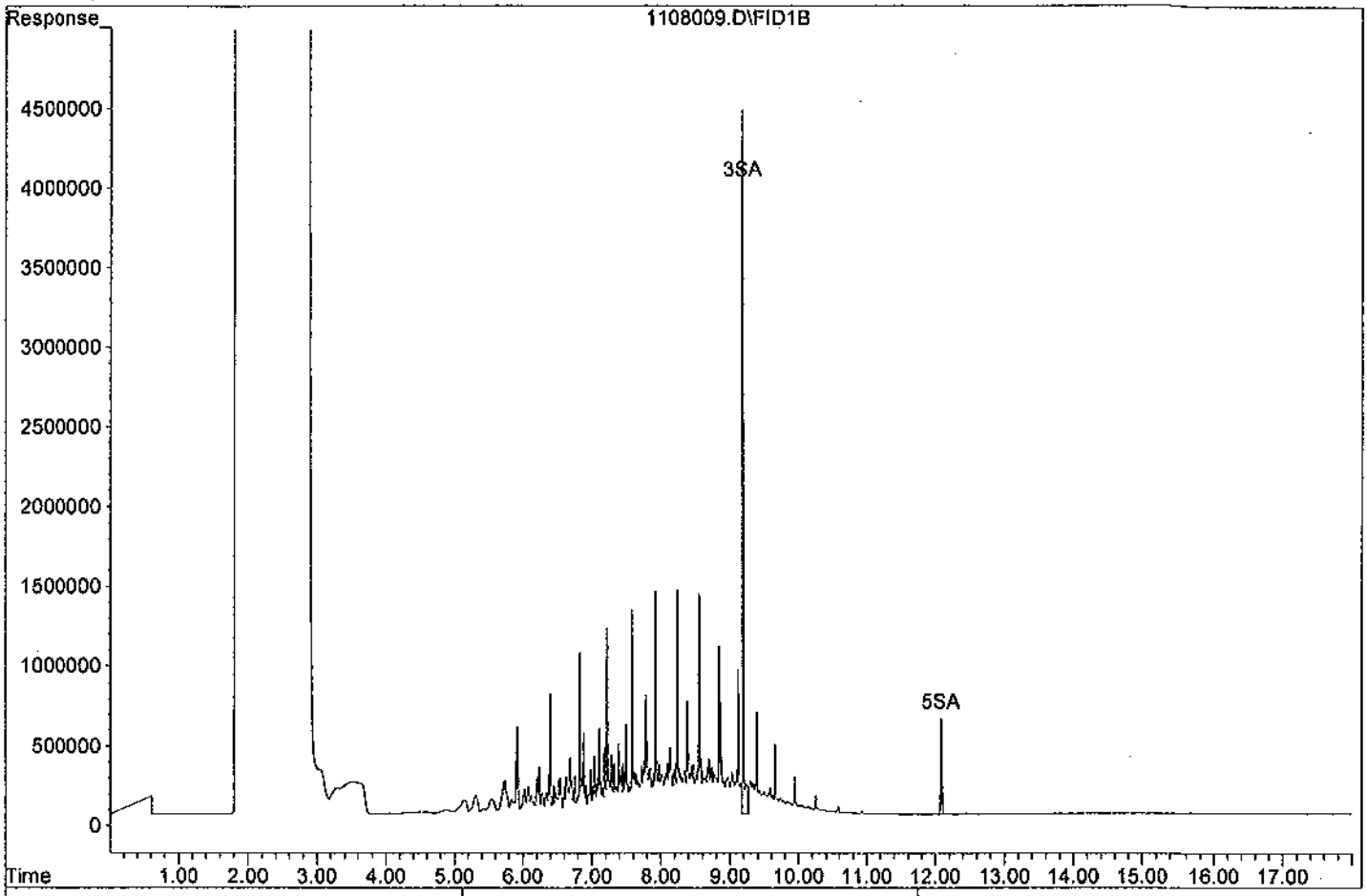
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

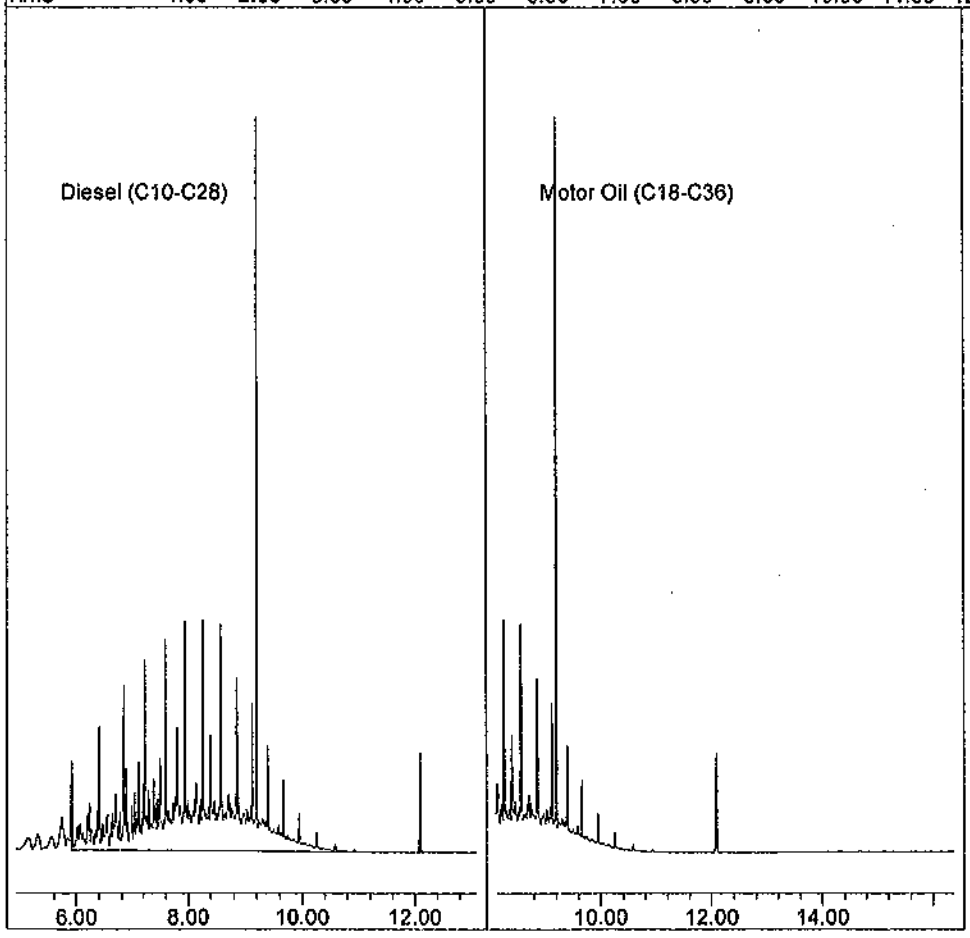
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.20	38756601	36.048 ppb
Surrogate Spike 30.000	Recovery =		120.16%
5) SA Not Used2(S)	12.09	7987688	16.122 ppb
Surrogate Spike 30.000	Recovery =		53.74%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	490402243	582.501 ppb

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

Data File: G:\APOLLO\DATA\111108\1108009.D
Sample : DIESEL 1000/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108011.D Vial: 11
Acq On : 11-8-11 18:12:45 Operator: LAC
Sample : MOTOR OIL 50/1000 11/8/11 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

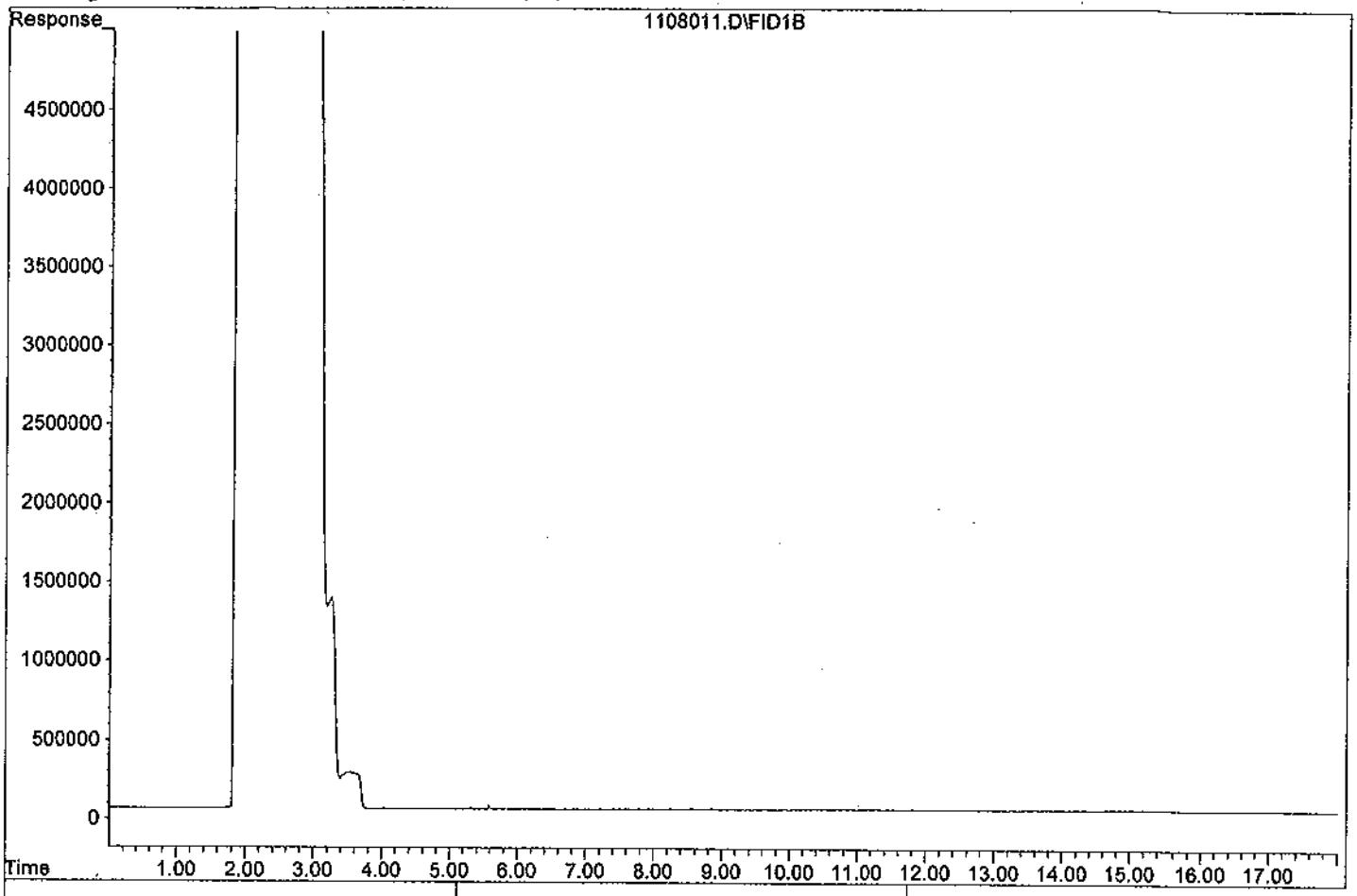
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

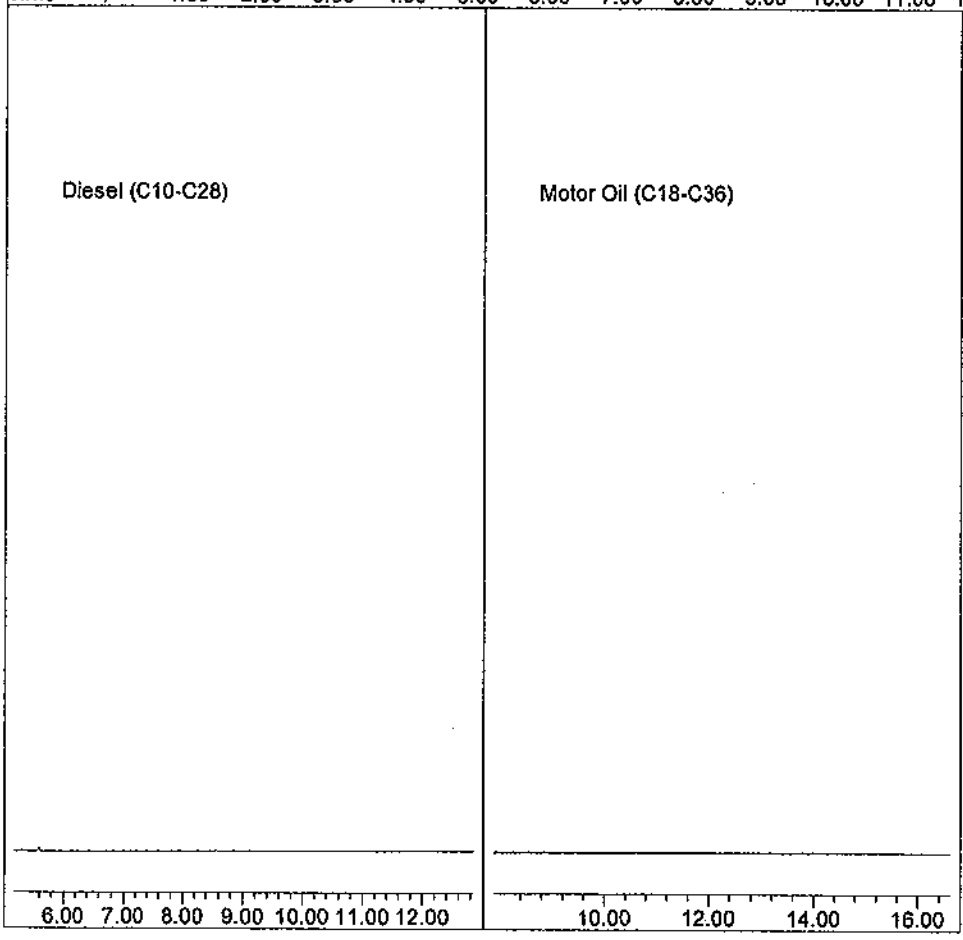
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	14043686	38.736 ppb

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

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108011.D
Sample : MOTOR OIL 50/1000 11/8/11





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108012.D Vial: 12
Acq On : 11-8-11 18:36:14 Operator: LAC
Sample : MOTOR OIL 100/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

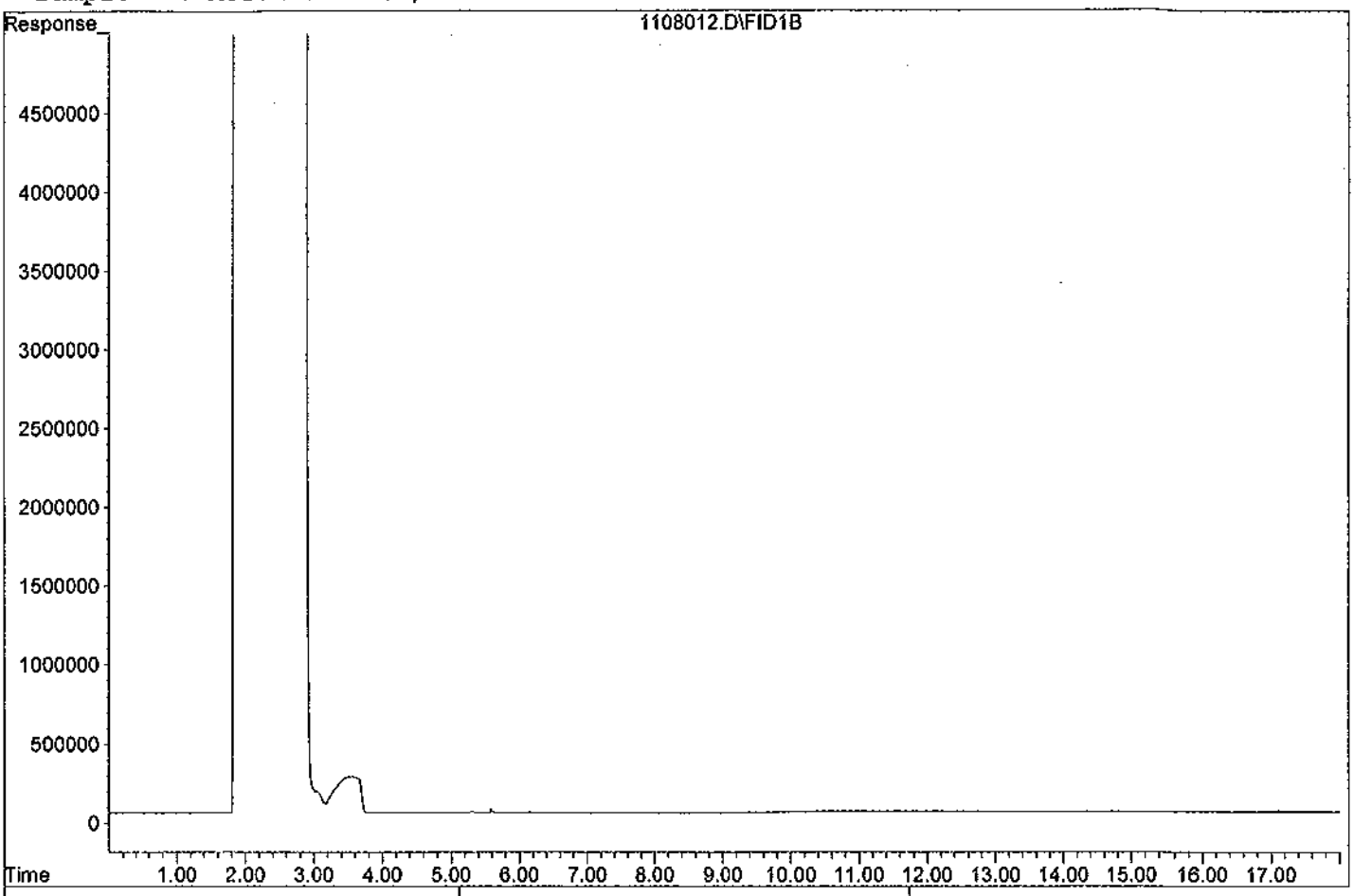
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

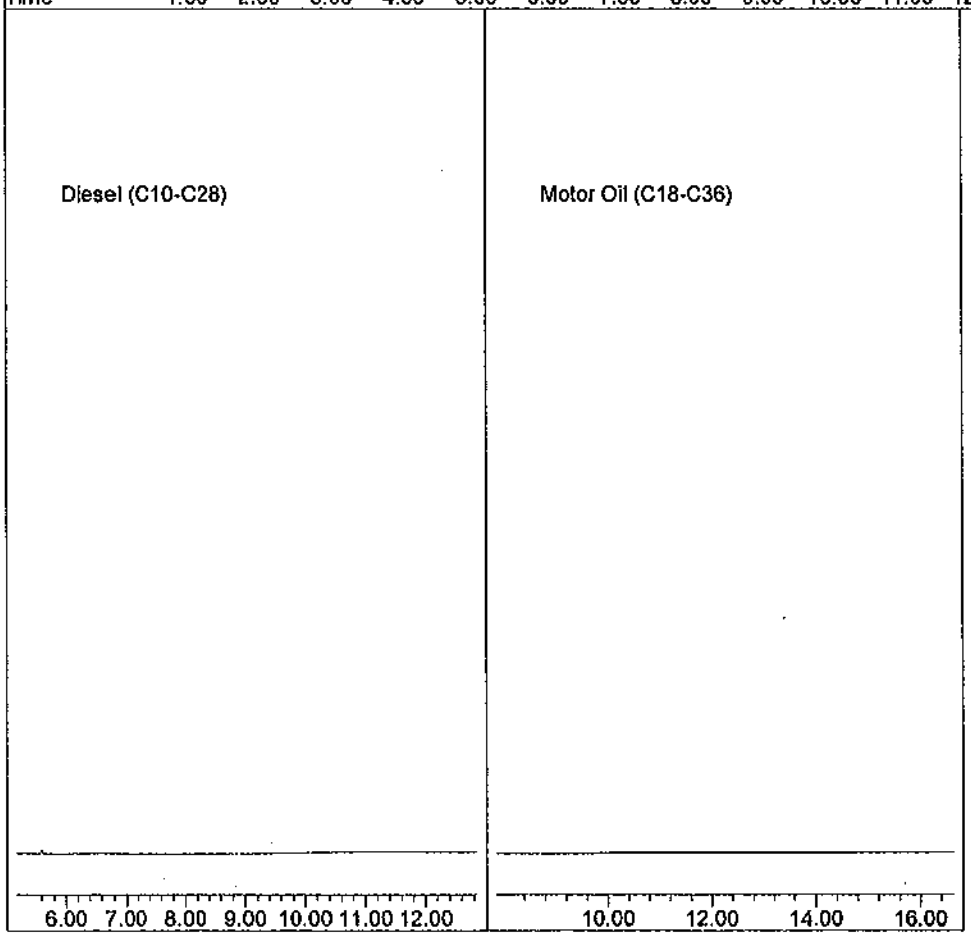
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	19926419	54.963 ppb

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

Data File: G:\APOLLO\DATA\111108\1108012.D
Sample : MOTOR OIL 100/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108013.D Vial: 13
Acq On : 11-8-11 18:59:47 Operator: LAC
Sample : MOTOR OIL 400/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

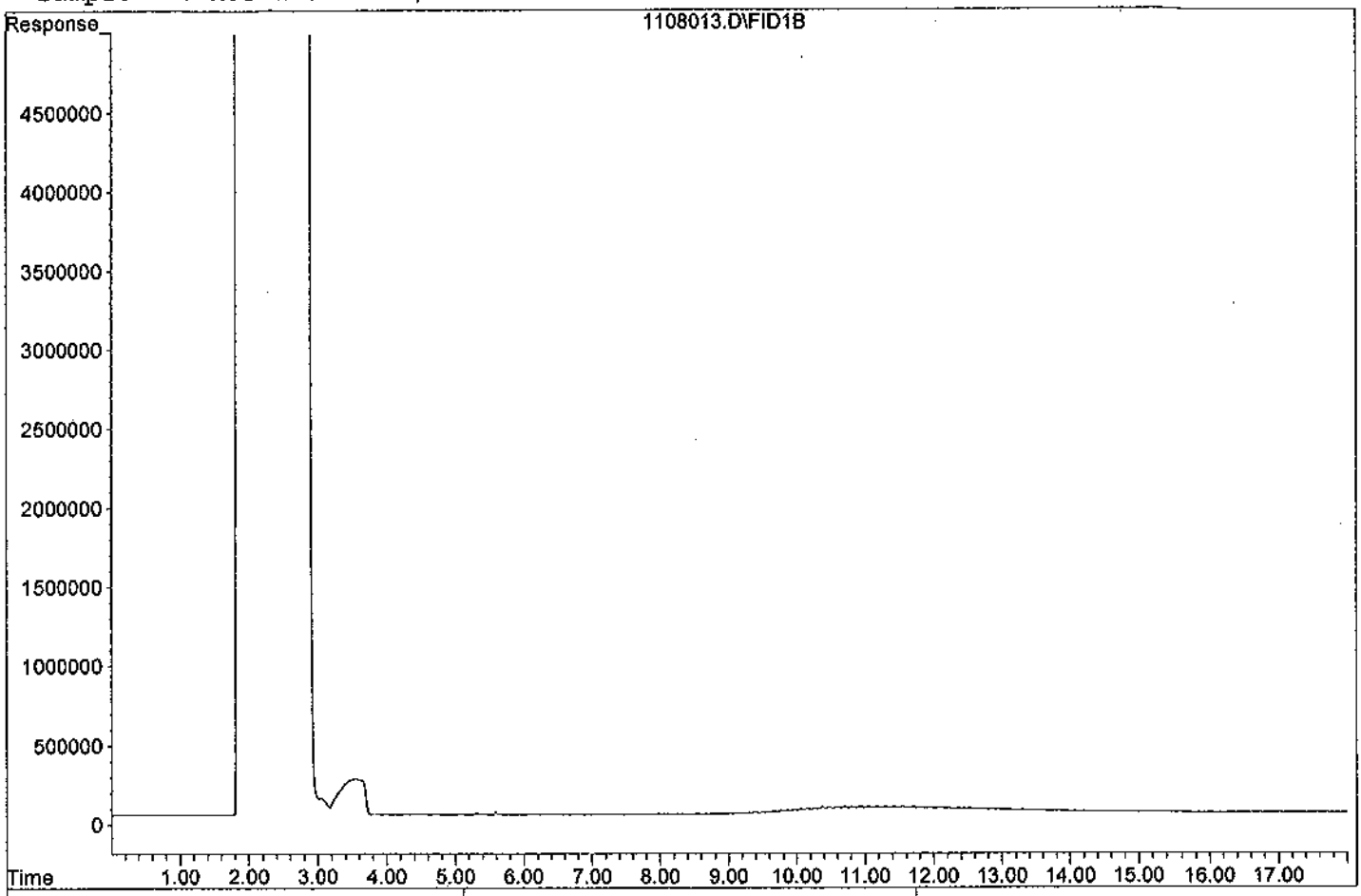
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

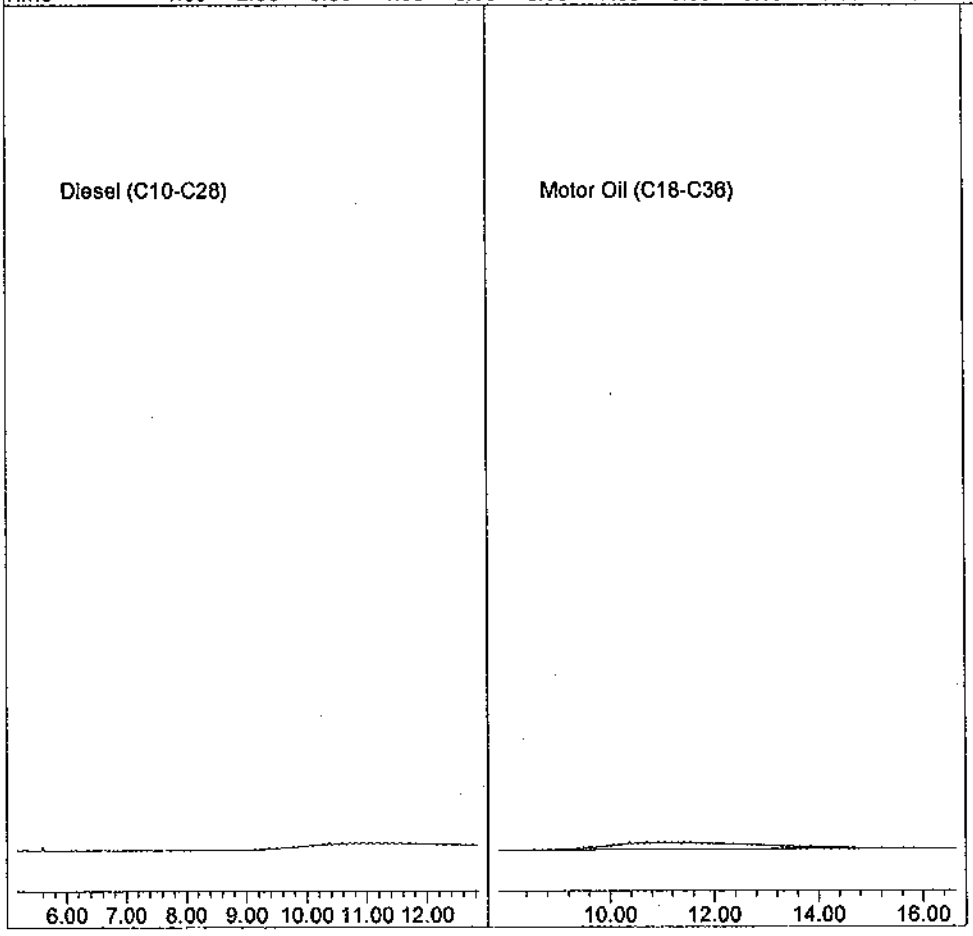
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	83351892	229.908 ppb

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

Data File: G:\APOLLO\DATA\111108\1108013.D
Sample : MOTOR OIL 400/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108014.D Vial: 14
Acq On : 11-8-11 19:23:20 Operator: LAC
Sample : MOTOR OIL 600/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

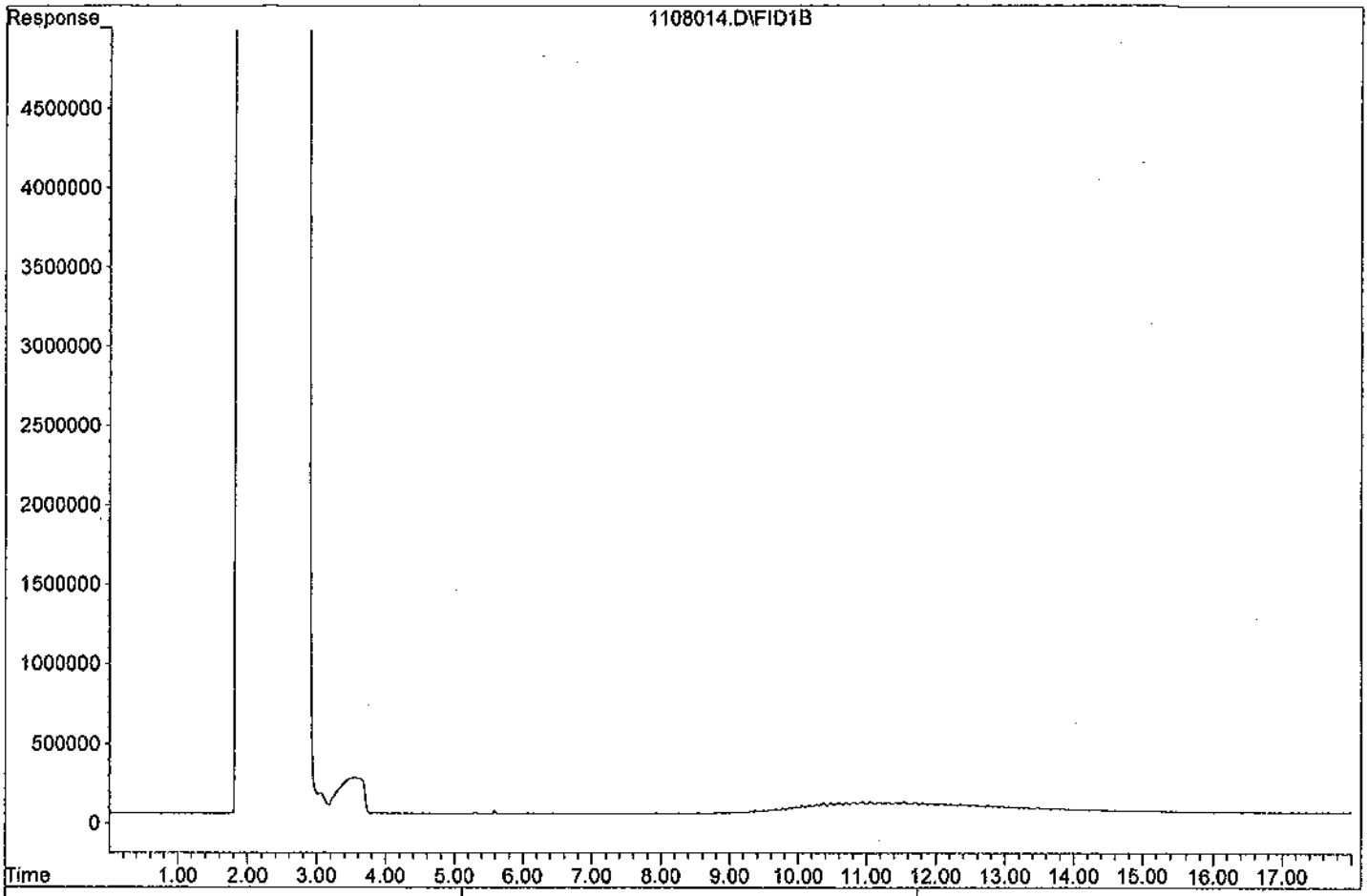
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

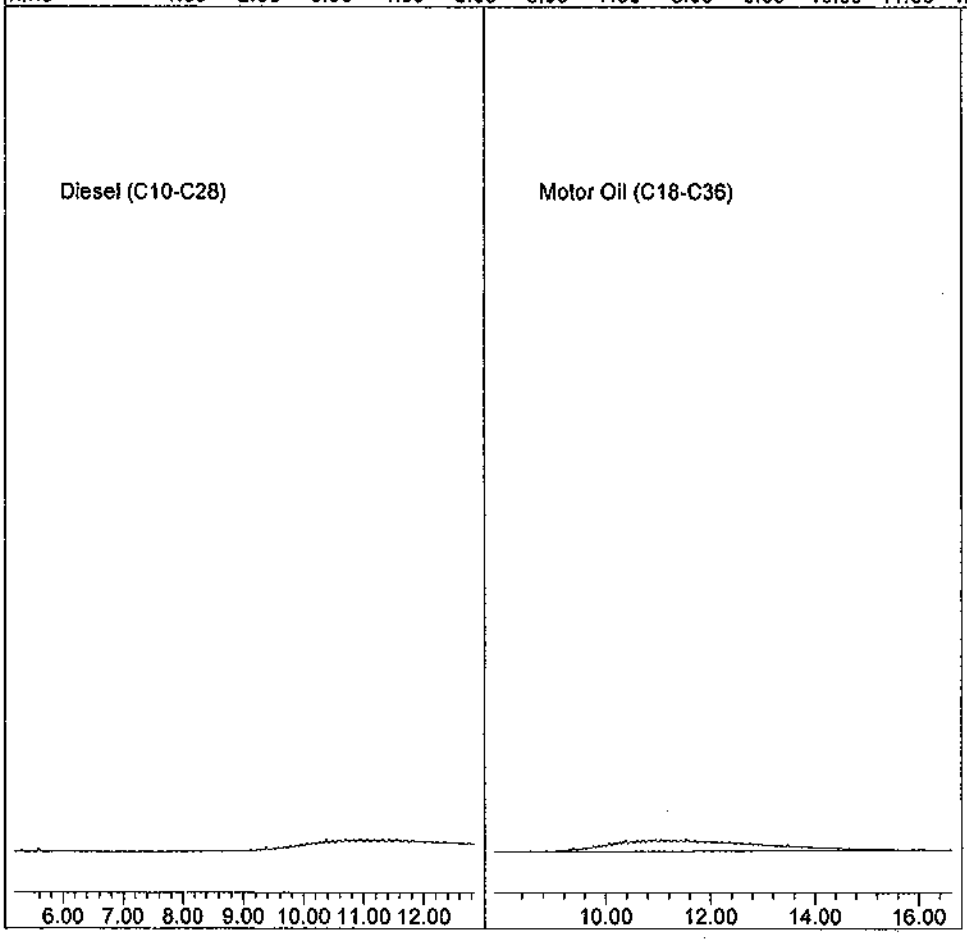
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	133423372	368.019 ppb

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

Data File: G:\APOLLO\DATA\111108\1108014.D
Sample : MOTOR OIL 600/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108015.D Vial: 15
Acq On : 11-8-11 19:46:53 Operator: LAC
Sample : MOTOR OIL 800/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

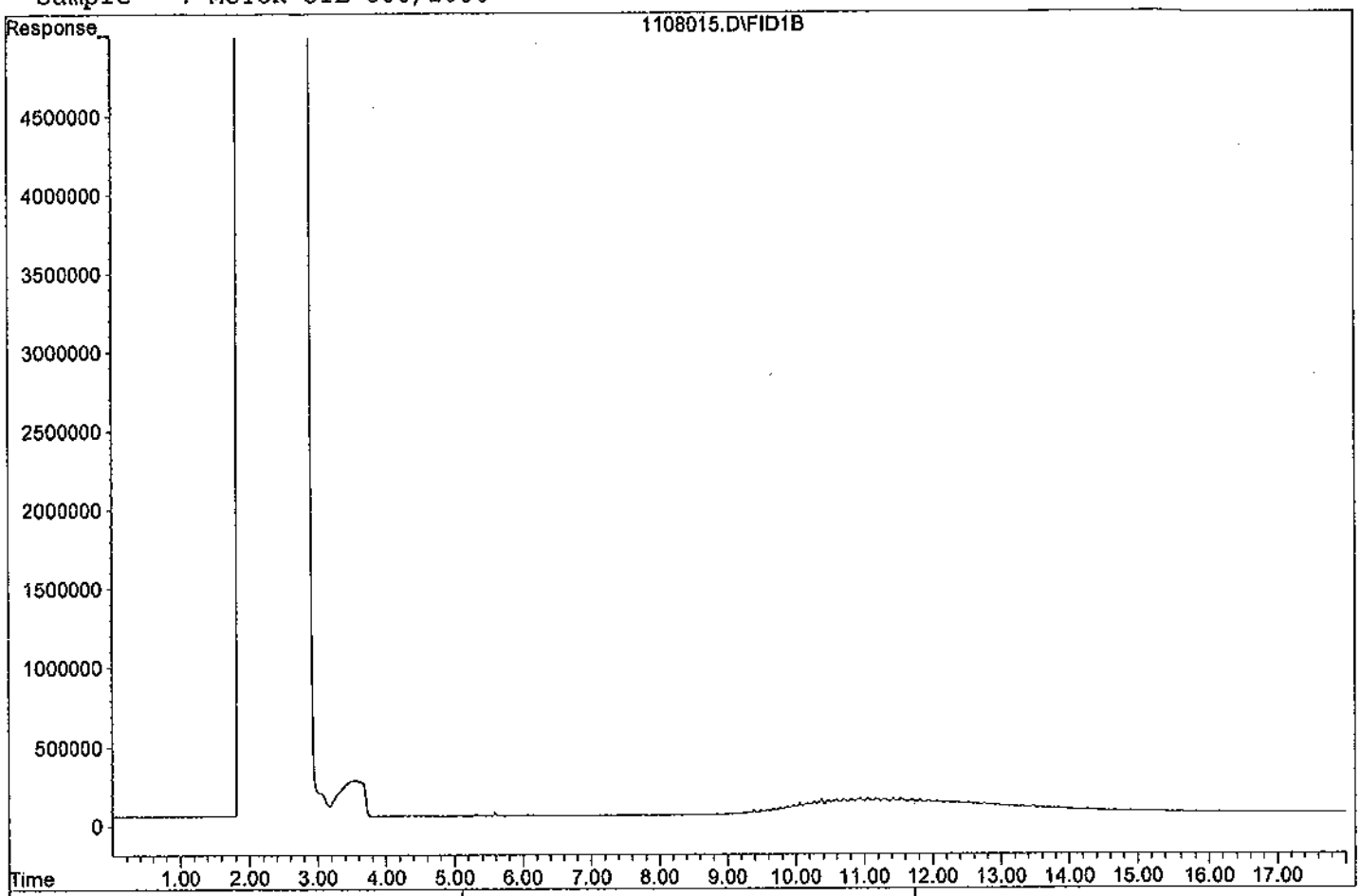
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

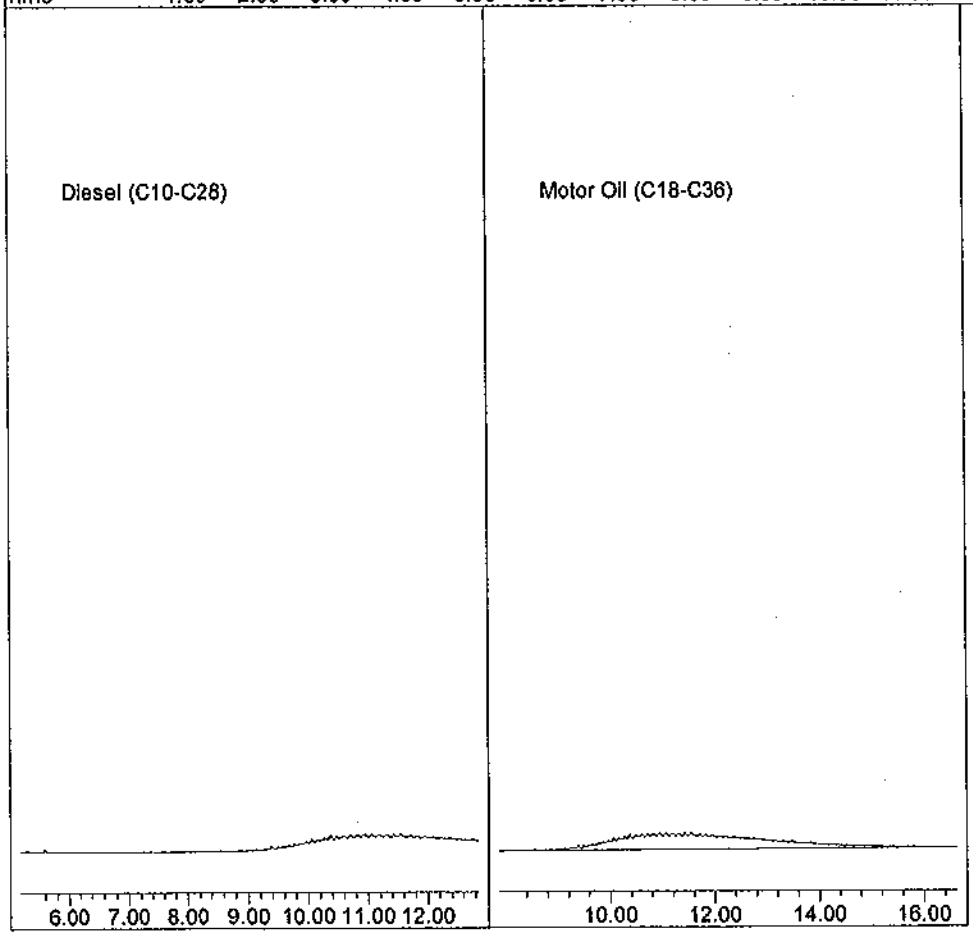
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
Target Compounds				
2) HBTM Motor Oil (C18-C36)	12.24	186462551	514.316	ppb

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

Data File: G:\APOLLO\DATA\111108\1108015.D
Sample : MOTOR OIL 800/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108016.D Vial: 16
Acq On : 11-8-11 20:10:21 Operator: LAC
Sample : MOTOR OIL 1000/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

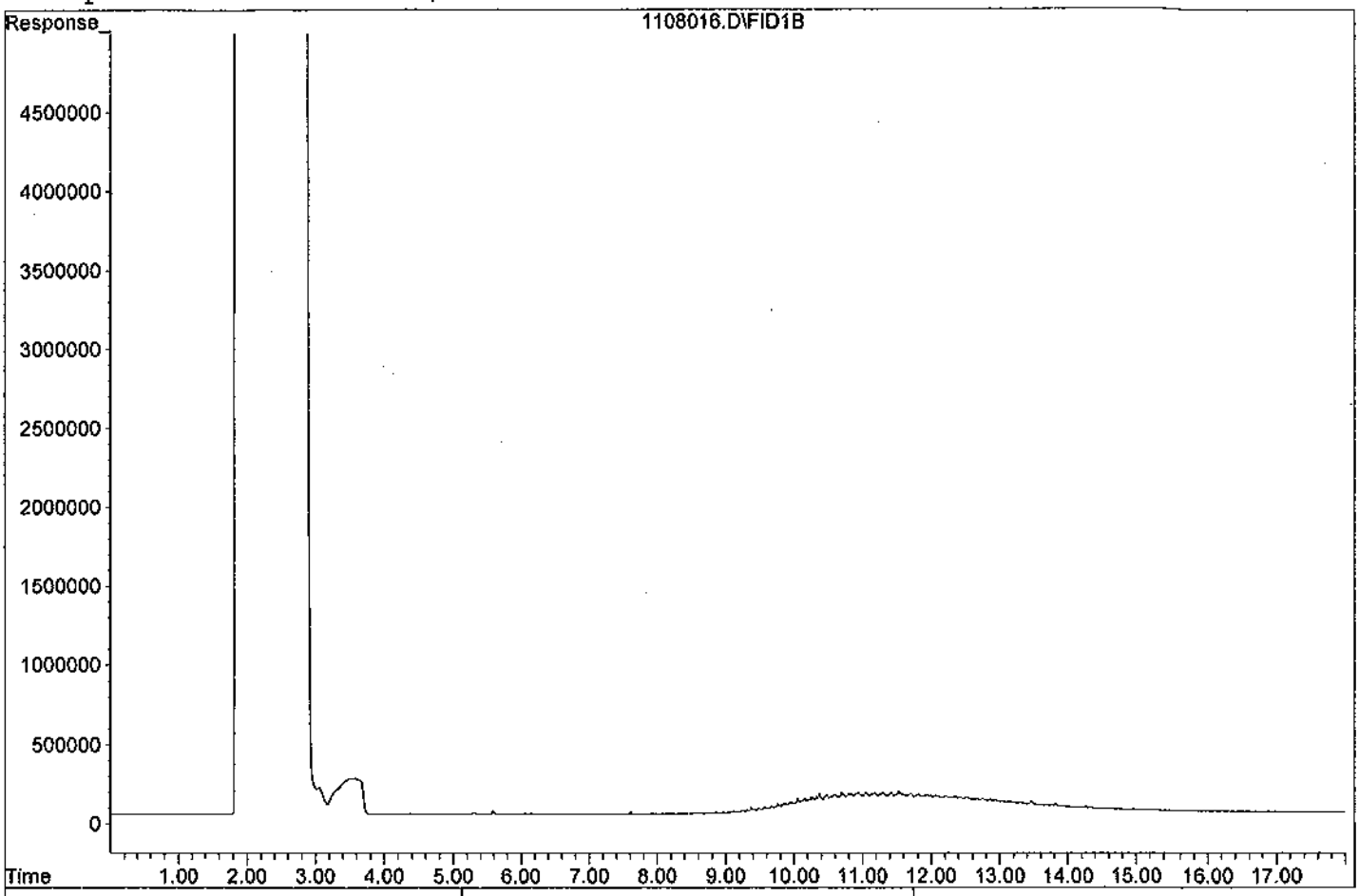
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

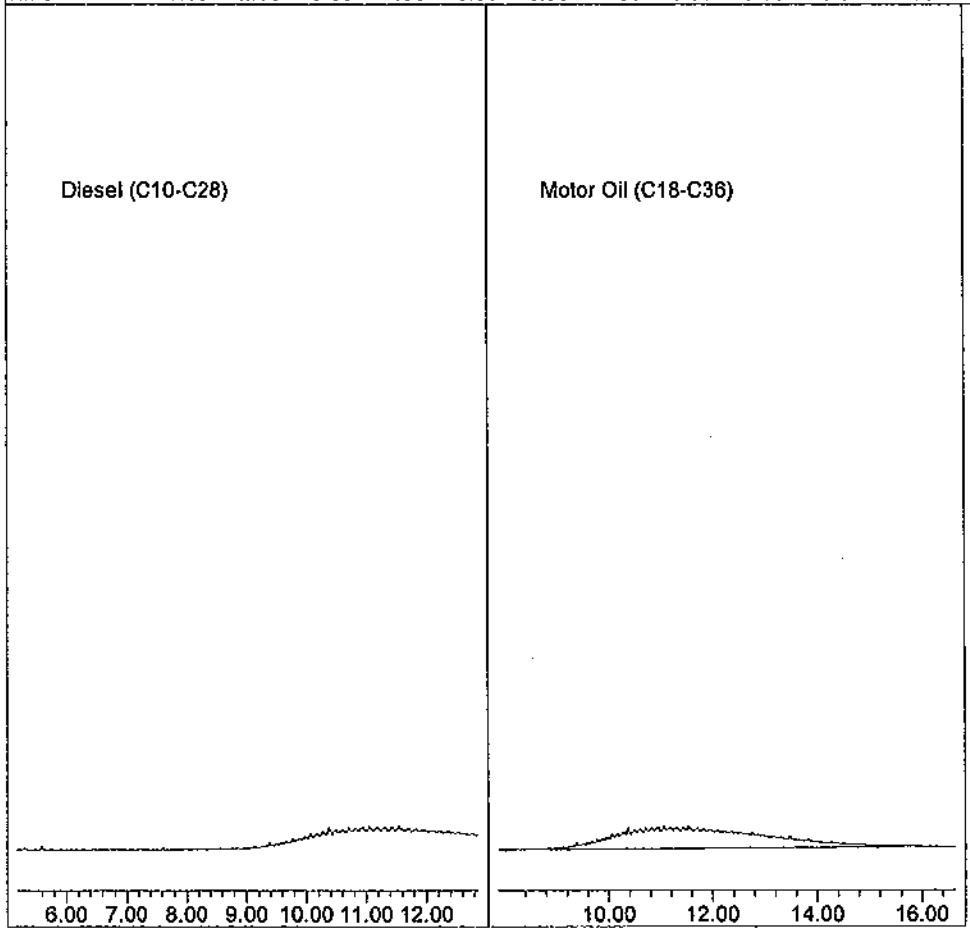
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	250746792	691.631 ppb

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

Data File: G:\APOLLO\DATA\111108\1108016.D
Sample : MOTOR OIL 1000/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108017.D Vial: 17
Acq On : 11-8-11 20:33:47 Operator: LAC
Sample : THC SURR 10/1000 11/8/11 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

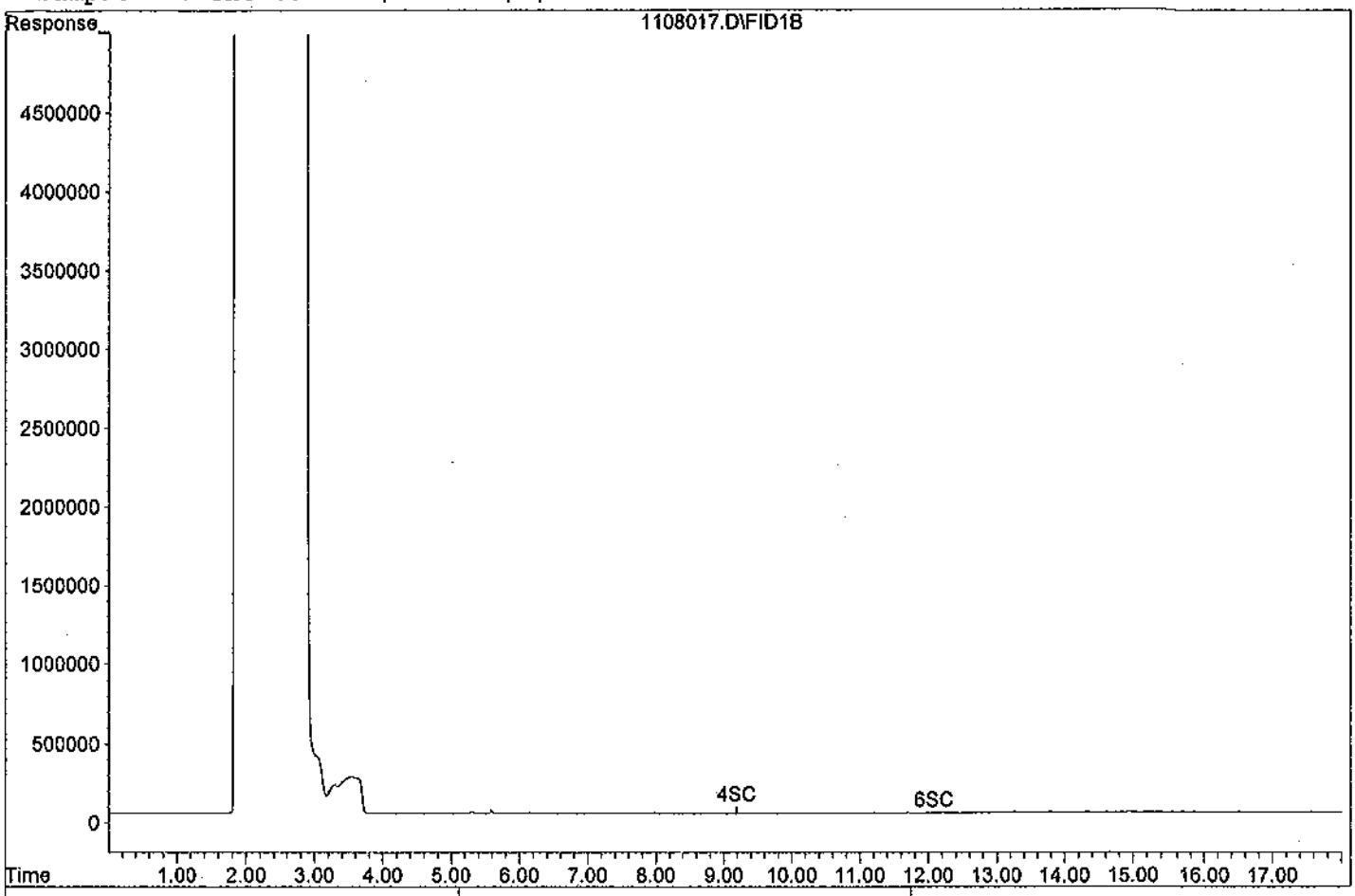
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

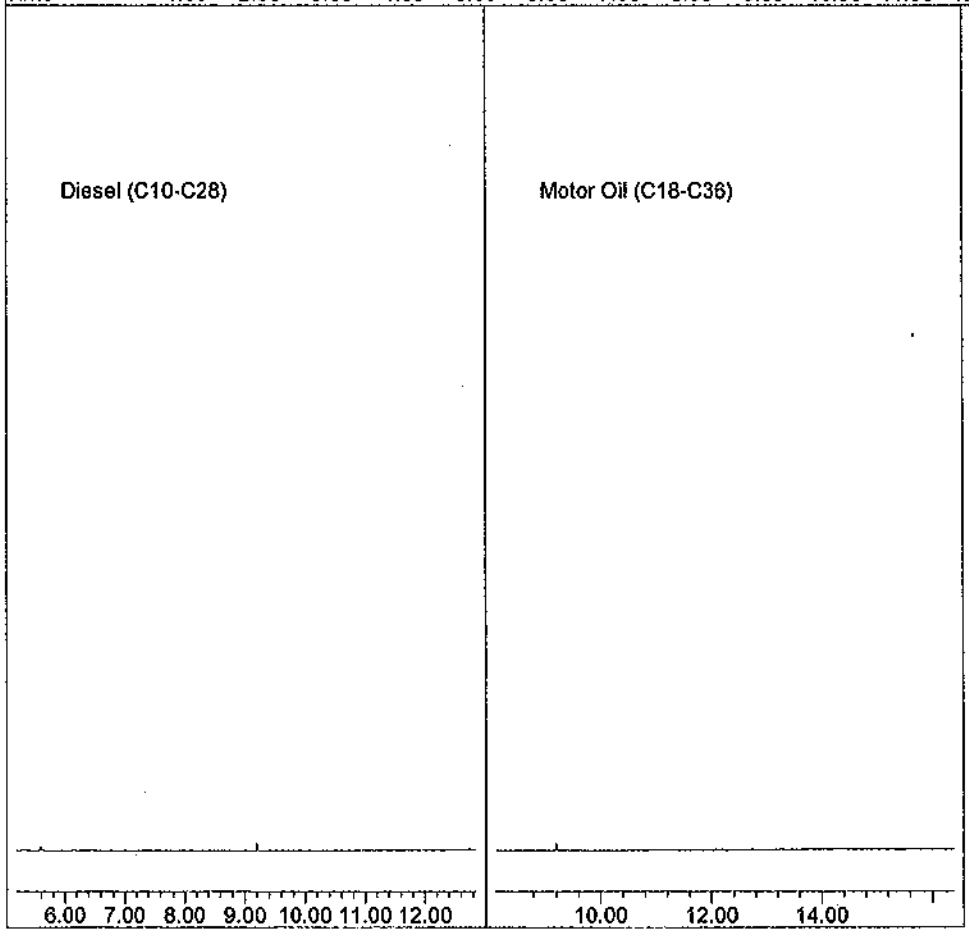
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.19	292692	0.336 ppb
Surrogate Spike 30.000	Recovery	=	1.12%
6) SC Octacosane(S)	12.08	74061	0.159 ppb
Surrogate Spike 30.000	Recovery	=	0.53%
Target Compounds			

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

Data File: G:\APOLLO\DATA\111108\1108017.D
Sample : THC SURR 10/1000 11/8/11





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108018.D Vial: 18
Acq On : 11-8-11 20:57:14 Operator: LAC
Sample : THC SURR 100/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

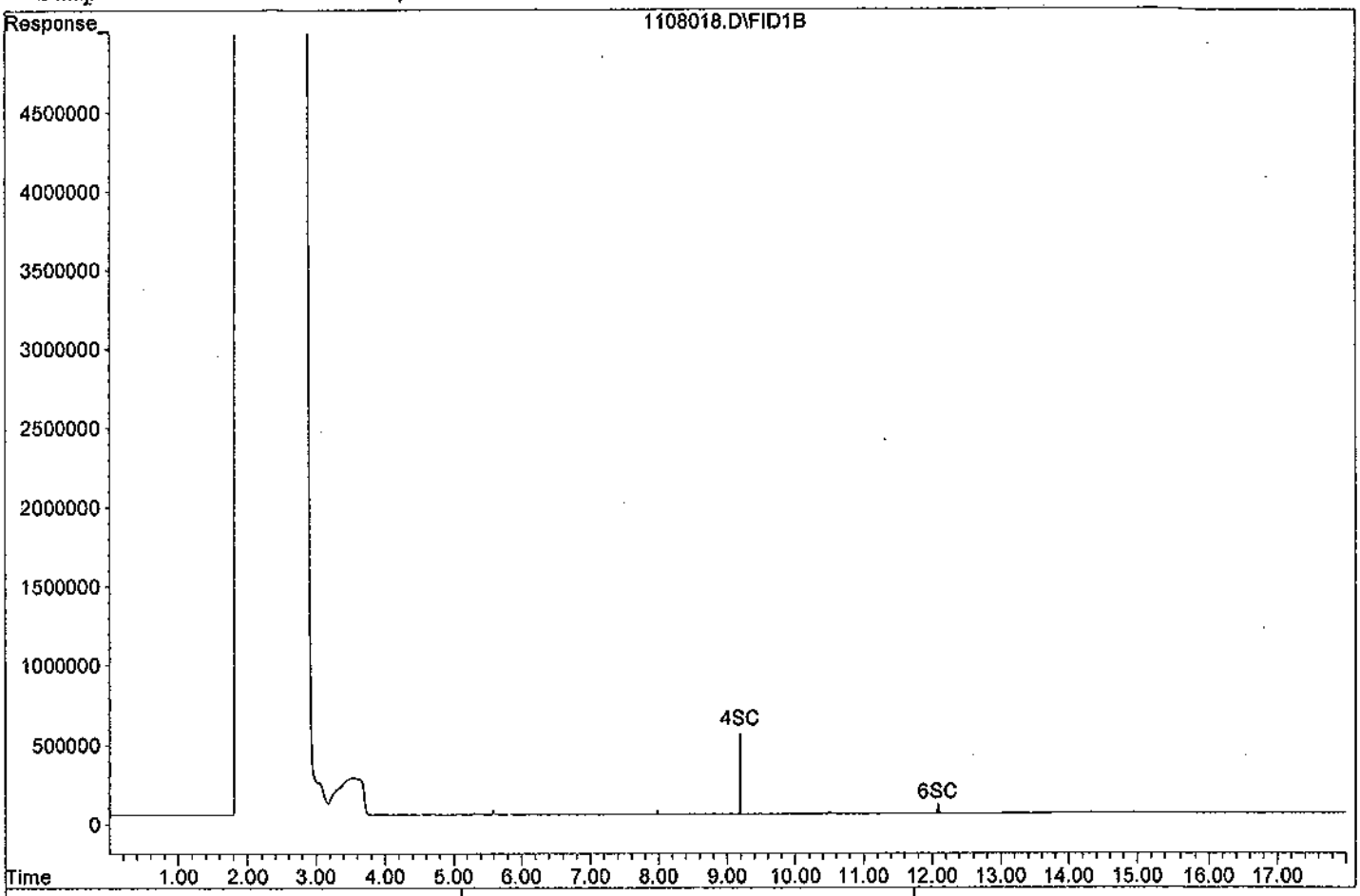
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

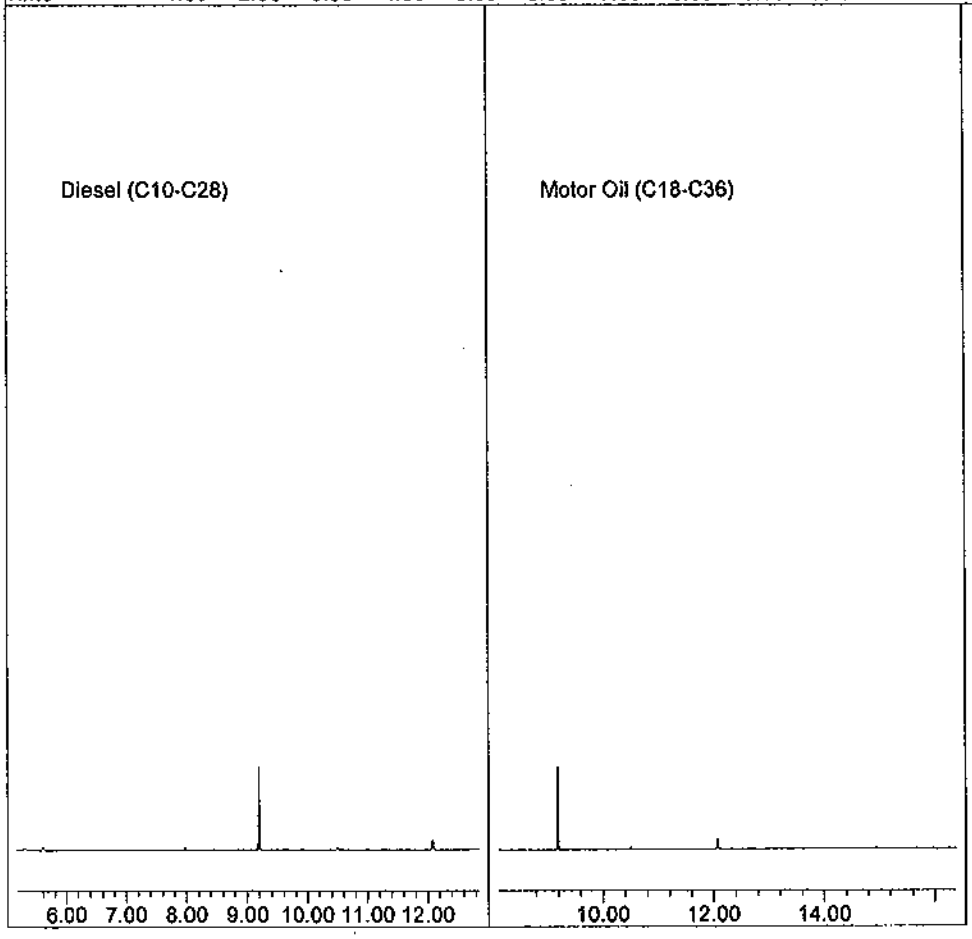
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.19	3228266	3.702	ppb
Surrogate Spike 30.000	Recovery =		12.34%	
6) SC Octacosane(S)	12.08	797717	1.714	ppb
Surrogate Spike 30.000	Recovery =		5.71%	
Target Compounds				

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

Data File: G:\APOLLO\DATA\111108\1108018.D
Sample : THC SURR 100/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108019.D Vial: 19
Acq On : 11-8-11 21:20:36 Operator: LAC
Sample : THC SURR 400/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

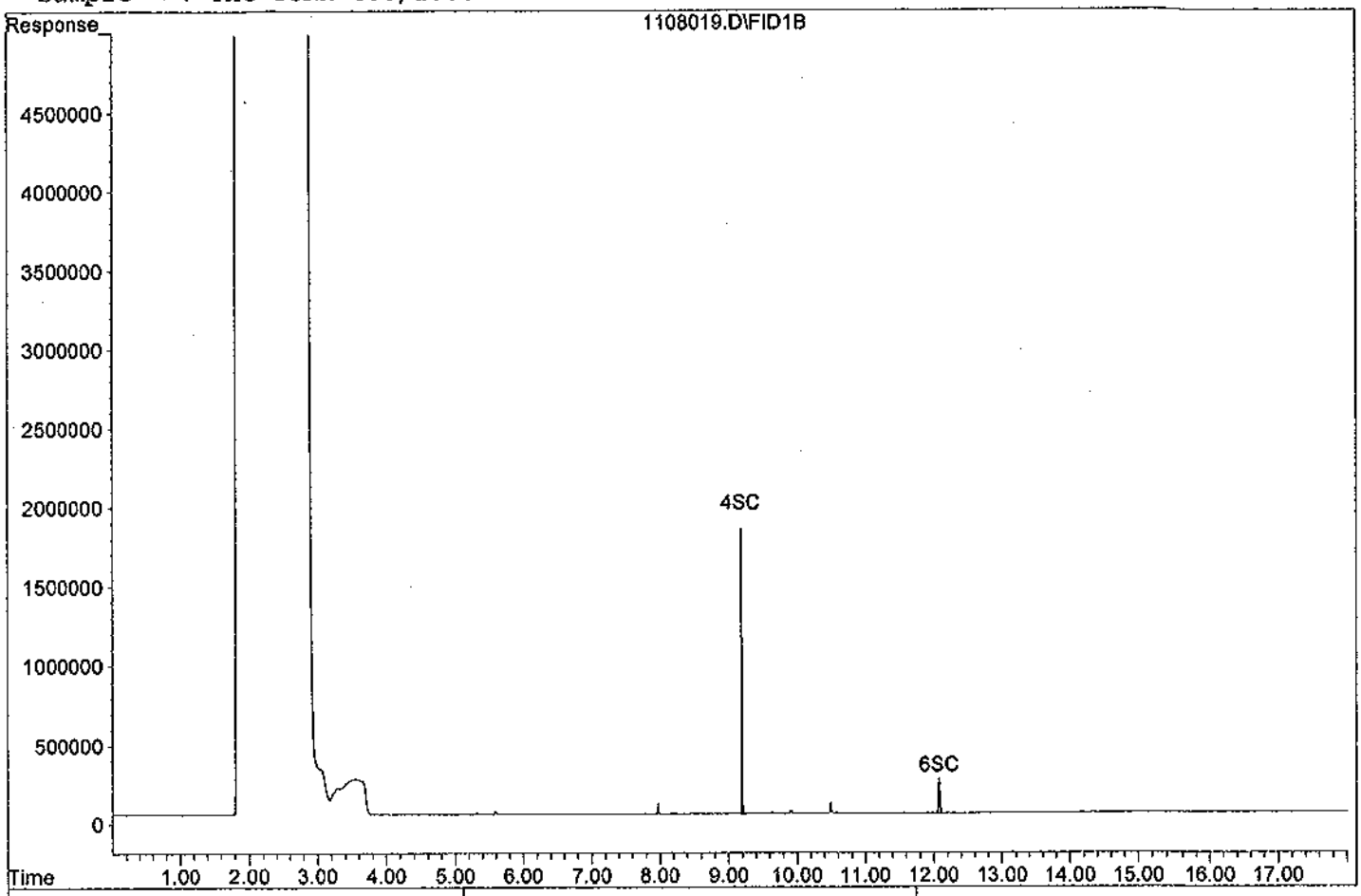
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

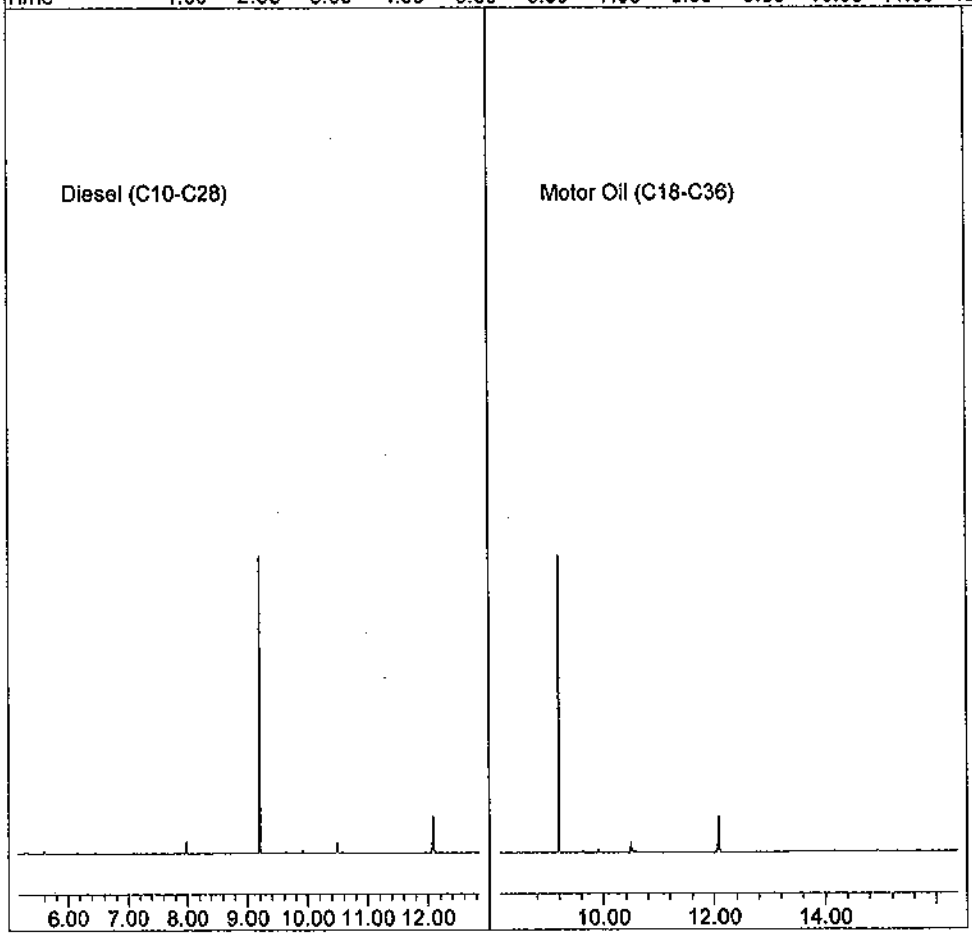
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.19	11653711	13.365	ppb
Surrogate Spike 30.000	Recovery =		44.55%	
6) SC Octacosane(S)	12.08	2944724	6.328	ppb
Surrogate Spike 30.000	Recovery =		21.09%	
Target Compounds				

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

Data File: G:\APOLLO\DATA\111108\1108019.D
Sample : THC SURR 400/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108020.D Vial: 20
Acq On : 11-8-11 21:43:59 Operator: LAC
Sample : THC SURR 600/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

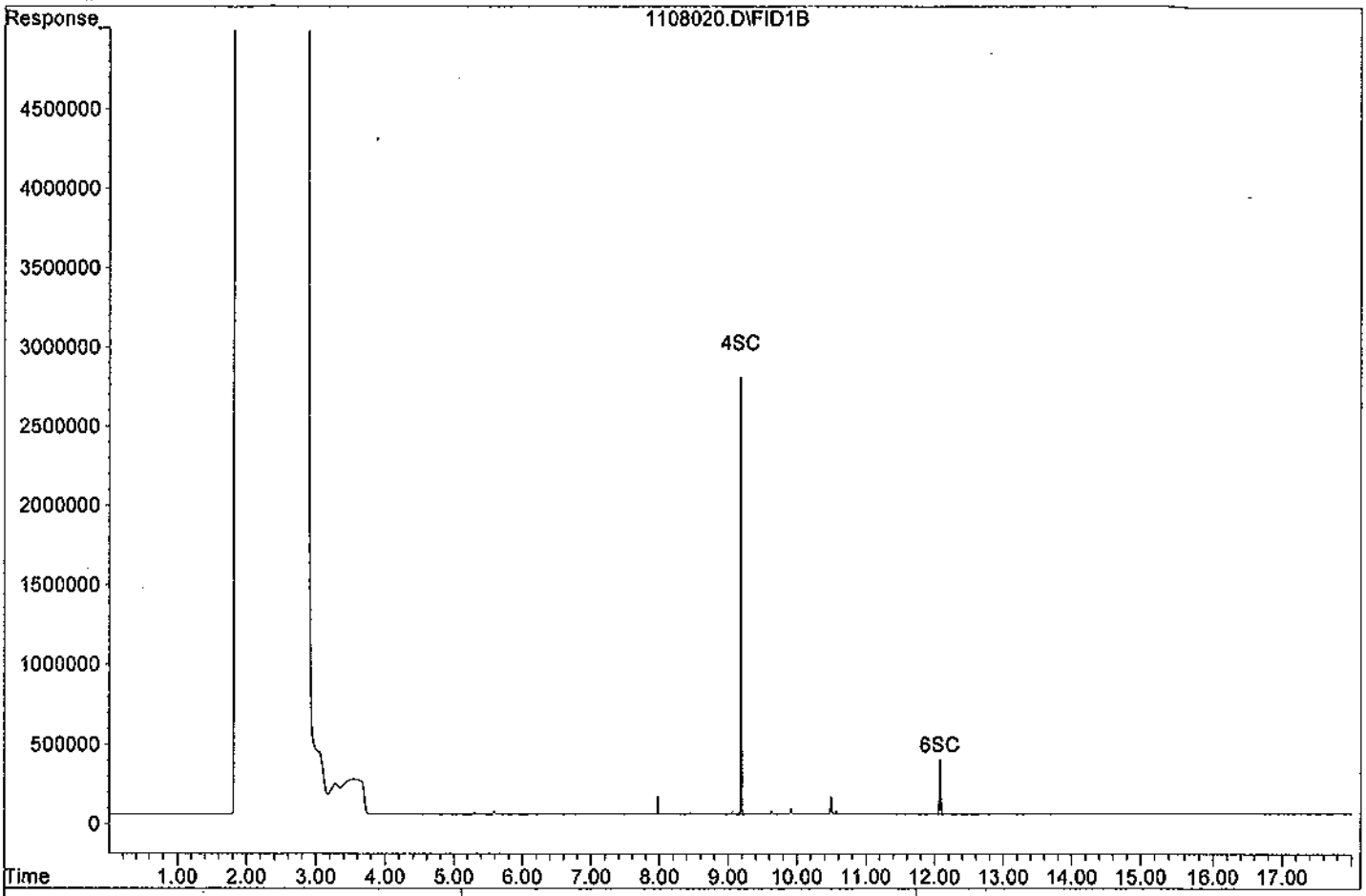
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

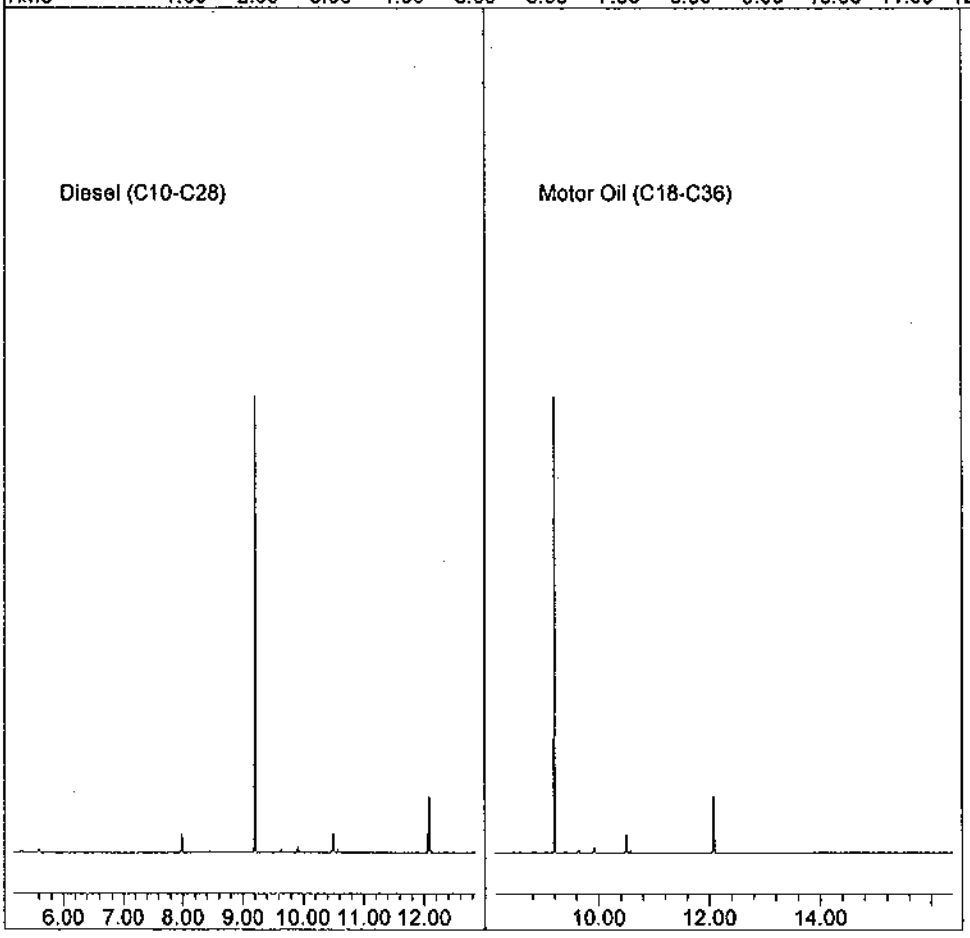
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.19	18494984	21.210 ppb
Surrogate Spike 30.000	Recovery =		70.70%
6) SC Octacosane(S)	12.08	4636415	9.963 ppb
Surrogate Spike 30.000	Recovery =		33.21%
Target Compounds			

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

Data File: G:\APOLLO\DATA\111108\1108020.D
Sample : THC SURR 600/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108021.D Vial: 21
Acq On : 11-8-11 22:07:20 Operator: LAC
Sample : THC SURR 800/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

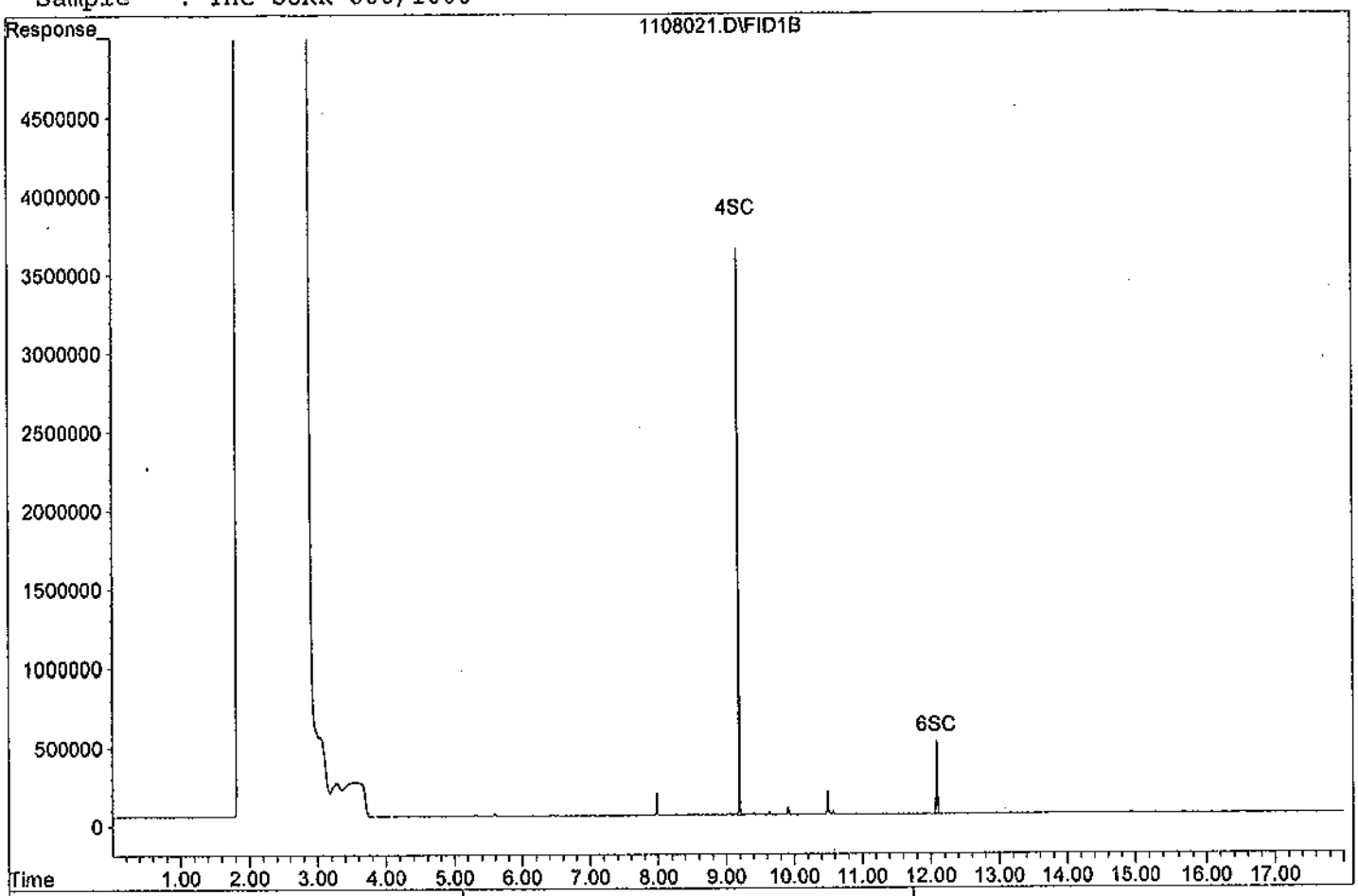
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

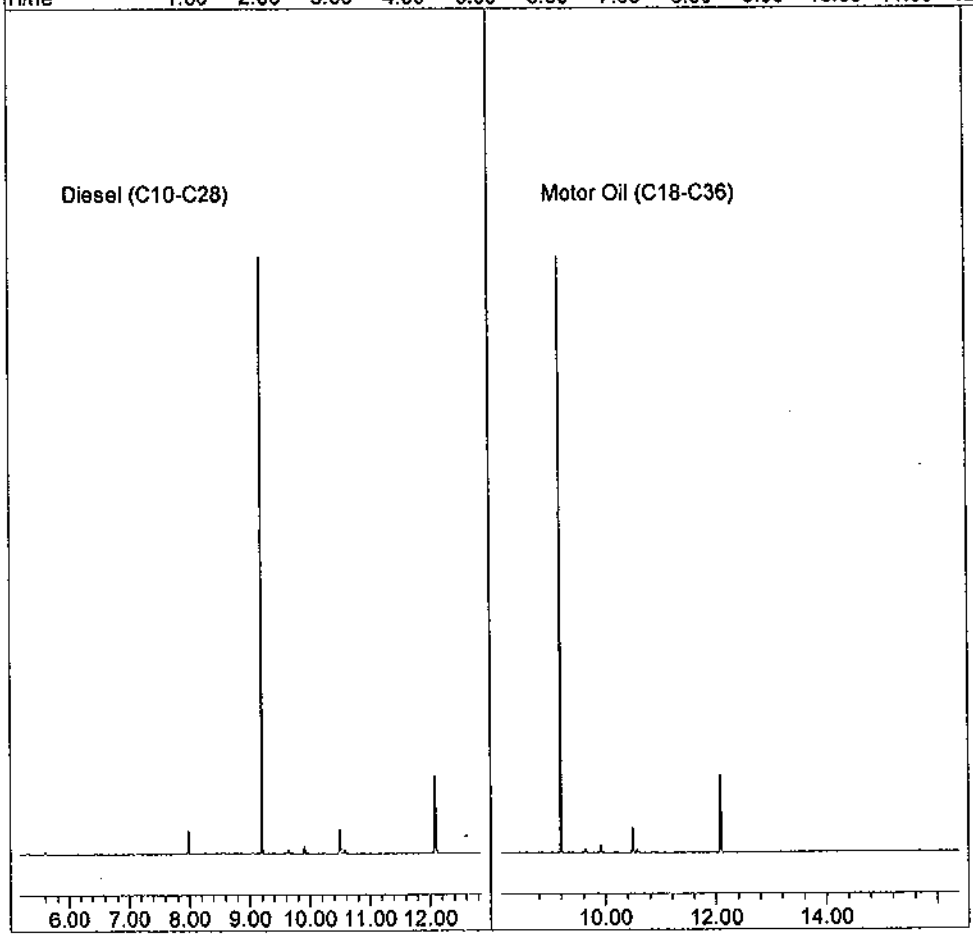
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.20	24081673	27.617	ppb
Surrogate Spike 30.000	Recovery =		92.06%	
6) SC Octacosane(S)	12.09	6191678	13.305	ppb
Surrogate Spike 30.000	Recovery =		44.35%	
Target Compounds				

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

Data File: G:\APOLLO\DATA\111108\1108021.D
Sample : THC SURR 800/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108022.D Vial: 22
Acq On : 11-8-11 22:30:39 Operator: LAC
Sample : THC SURR 1000/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

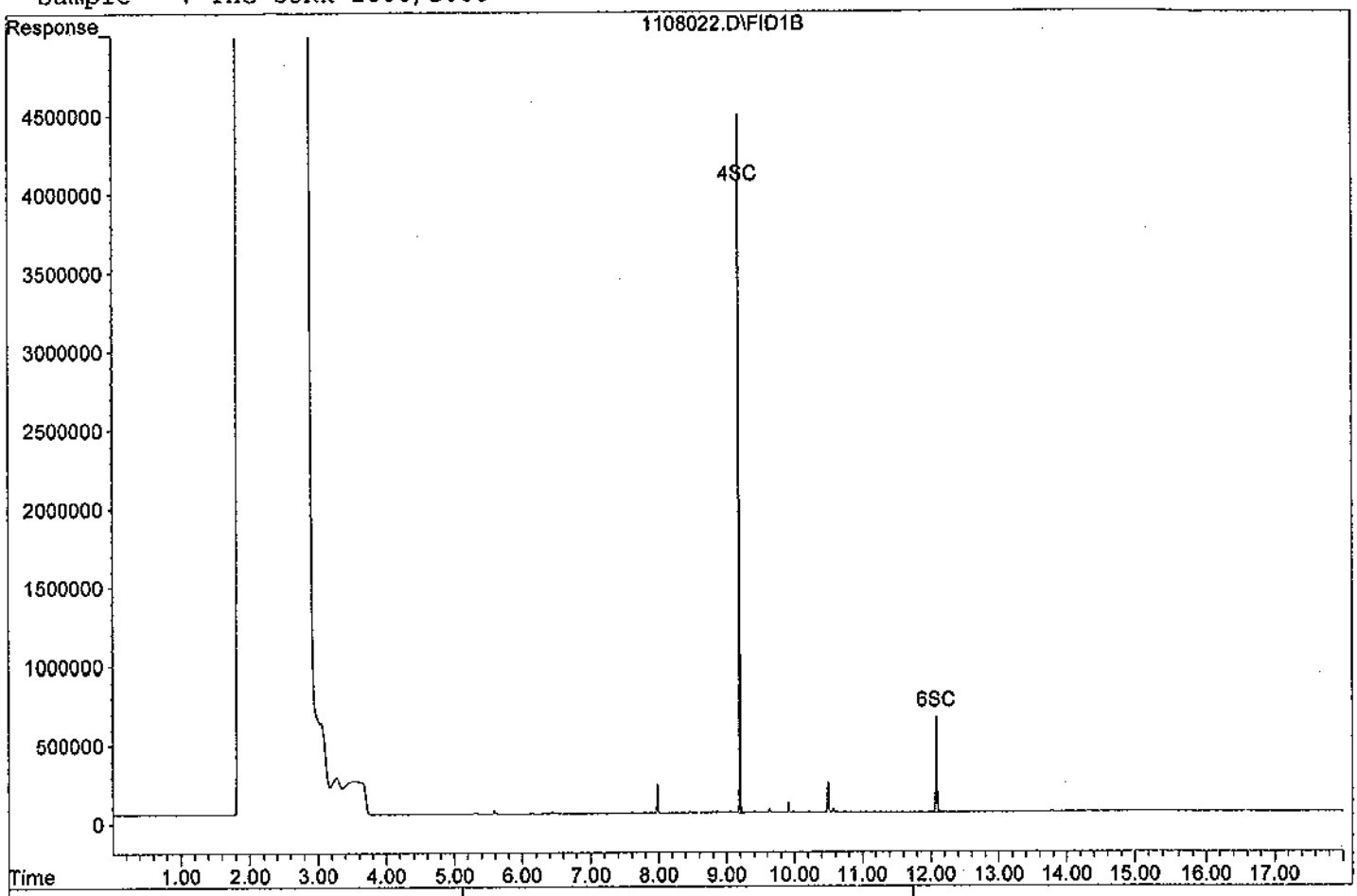
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

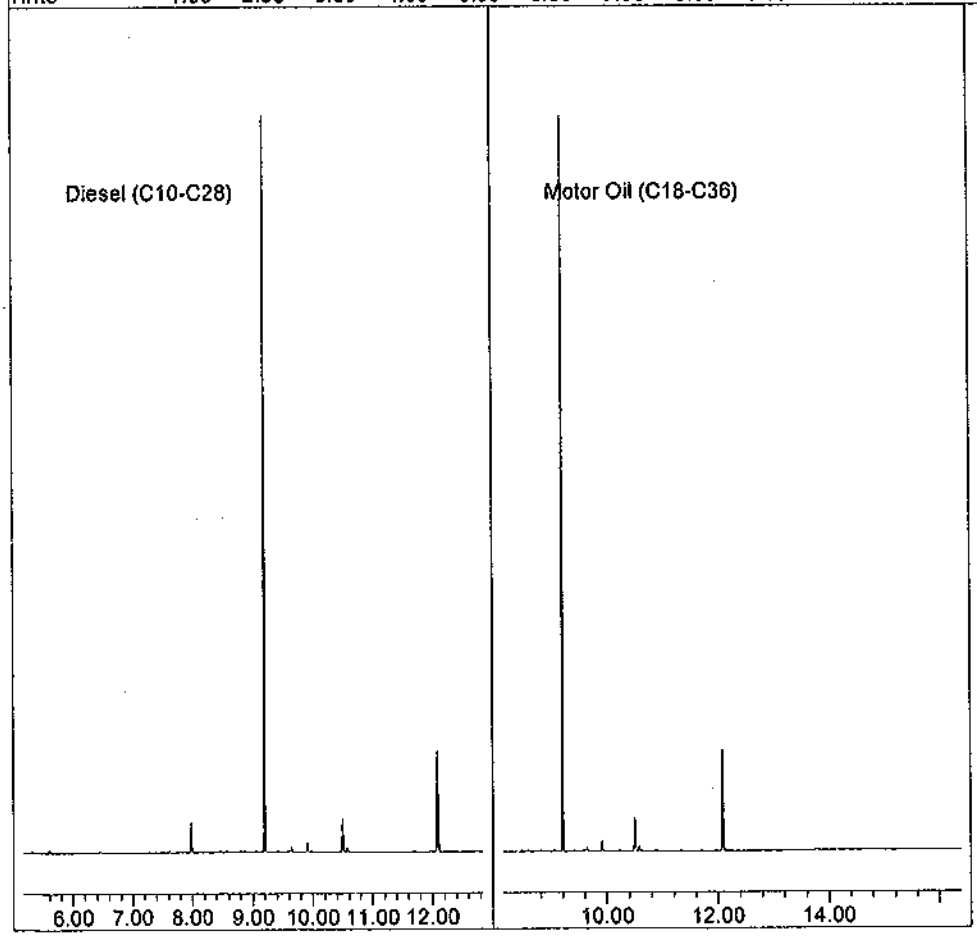
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.20	30506918	34.986	ppb
Surrogate Spike 30.000	Recovery =		116.62%	
6) SC Octacosane(S)	12.09	7943255	17.069	ppb
Surrogate Spike 30.000	Recovery =		56.90%	
Target Compounds				

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

Data File: G:\APOLLO\DATA\111108\1108022.D
Sample : THC SURR 1000/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108069.D Vial: 69
Acq On : 11-9-11 17:18:58 Operator: LAC
Sample : DIESEL 10/1000 11/8/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

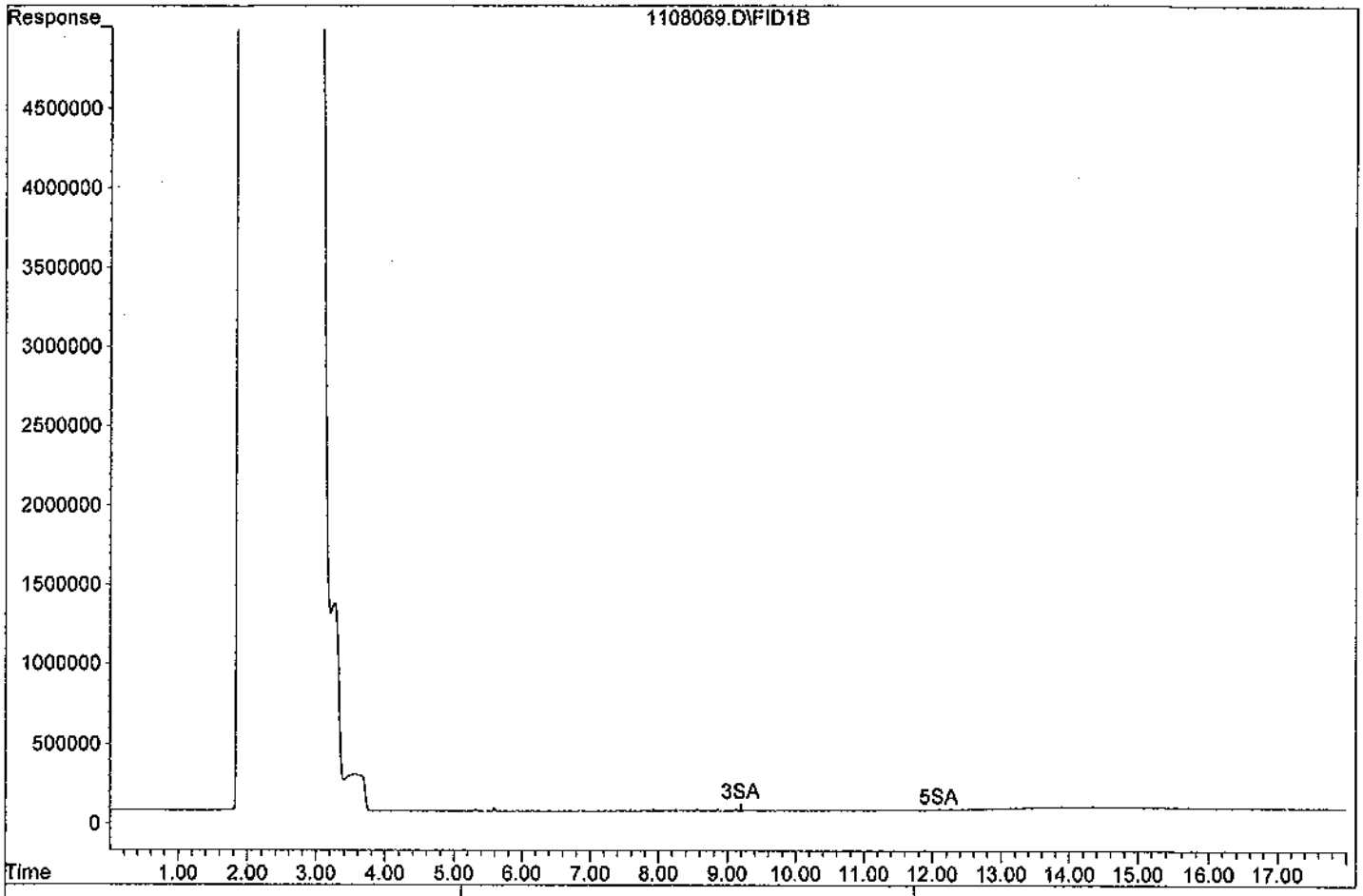
Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

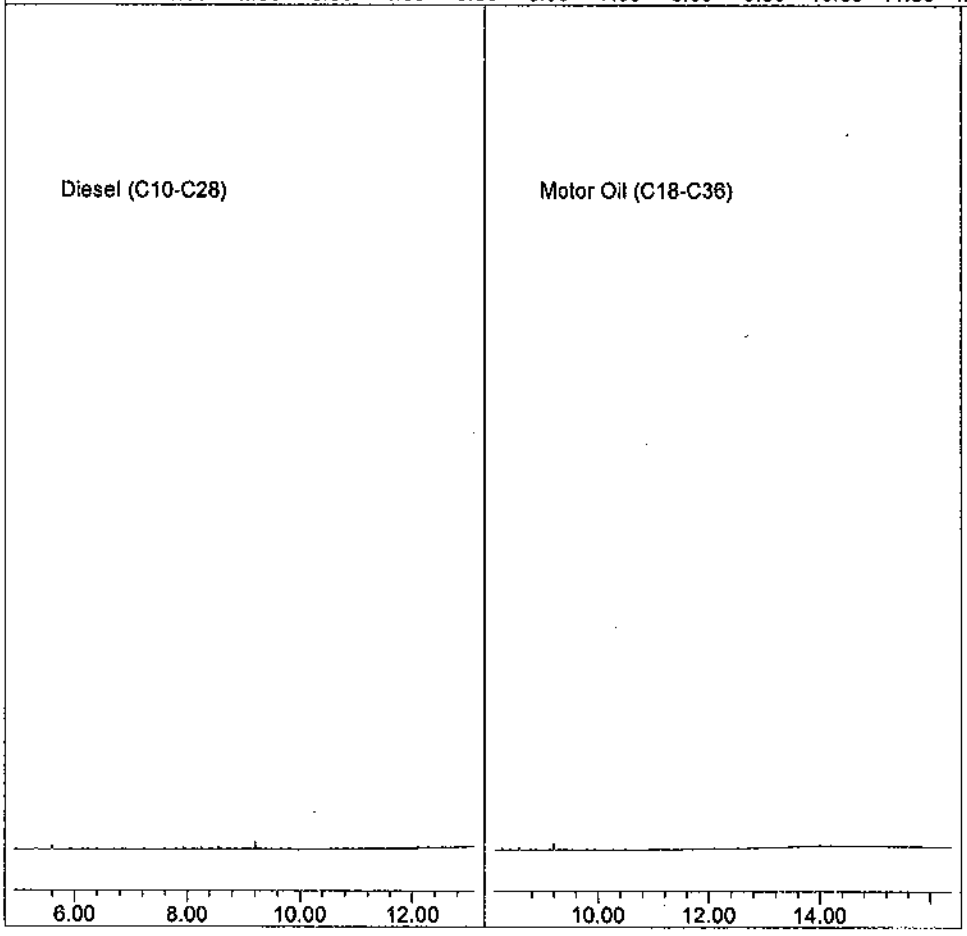
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.20	302444	0.281 ppb
Surrogate Spike 30.000	Recovery	=	0.94%
5) SA Not Used2(S)	12.10	625179	1.262 ppb
Surrogate Spike 30.000	Recovery	=	4.21%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	12262633	14.566 ppb

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

Data File: G:\APOLLO\DATA\111108\1108069.D
Sample : DIESEL 10/1000 11/8/11





TPH Extractables
TPH1108

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 66186
Date Analyzed: 11/09/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1108070.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	305473	233788	23	HATML	5.1
2							
3							
4							
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37							
38							
39							
40							
		Average			23.0		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111108\1108070.D Vial: 70
Acq On : 11-9-11 17:42:38 Operator: LAC
Sample : DIESEL 400 2ND SRC 11/8/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 10 8:39 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 10 08:39:08 2011
Response via : Multiple Level Calibration

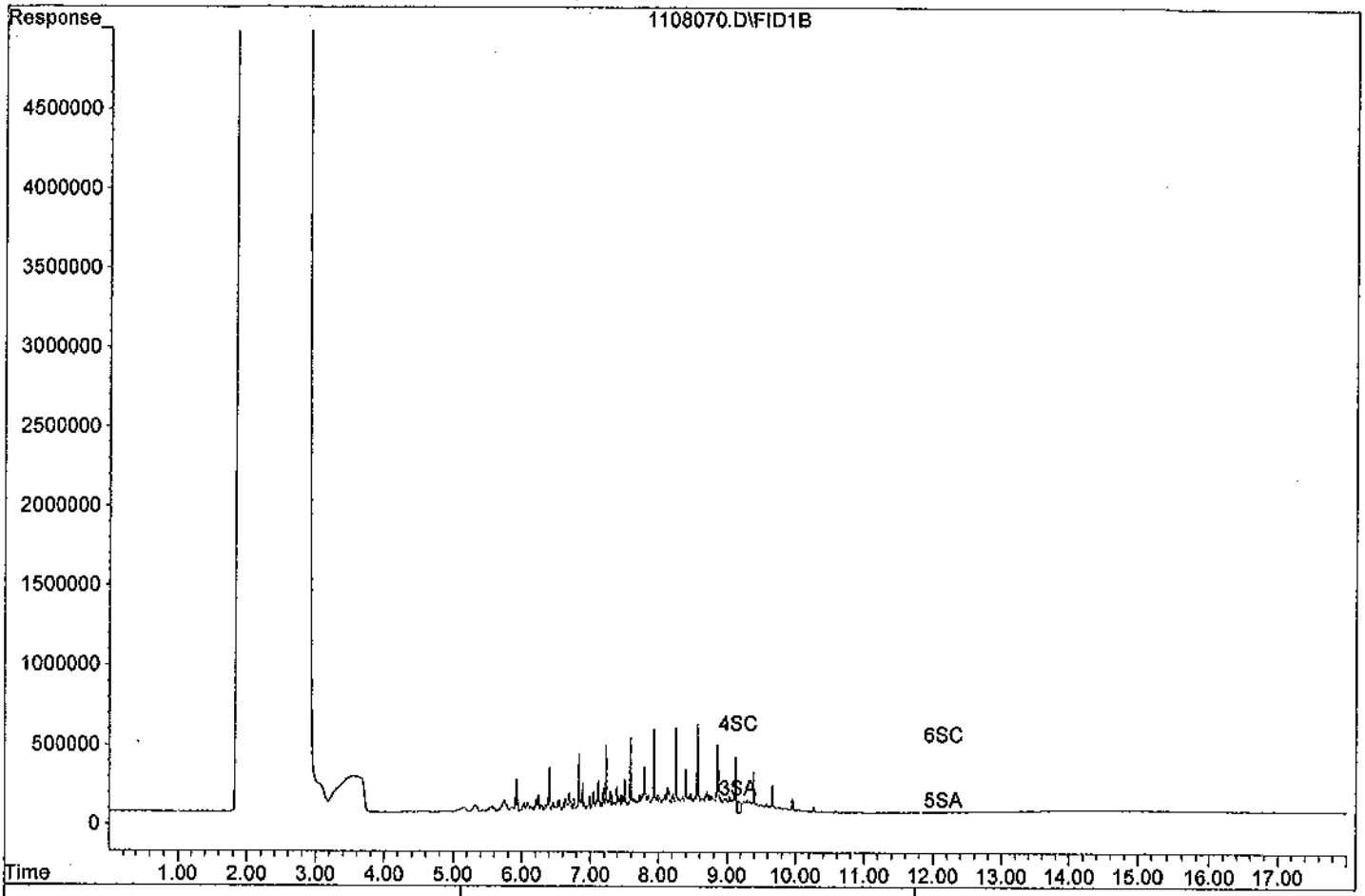
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

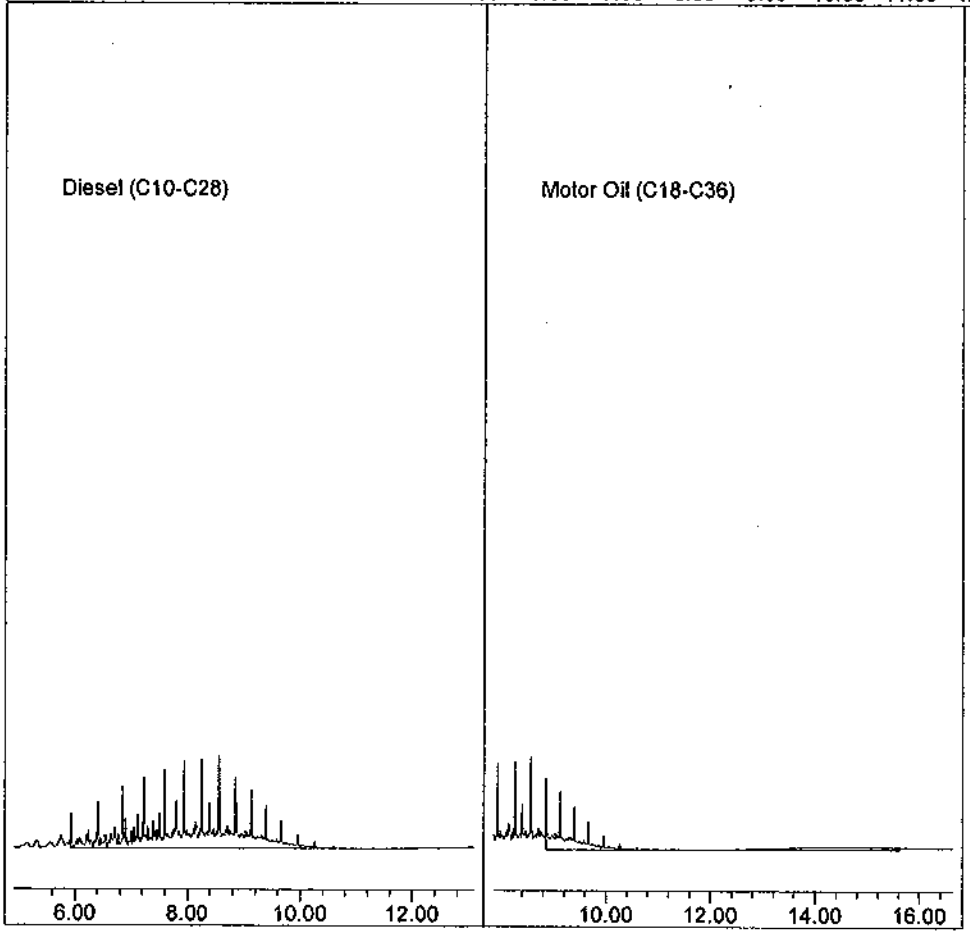
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.17	2636236	3.884 ppb
Surrogate Spike 30.000	Recovery =		12.95%
4) SC Ortho-Terphenyl(S)	9.17	2636236	4.343 ppb
Surrogate Spike 30.000	Recovery =		14.48%
5) SA Not Used2(S)	12.16	136311	0.865 ppb
Surrogate Spike 30.000	Recovery =		2.88%
6) SC Octacosane(S)	12.16	136311	0.886 ppb
Surrogate Spike 30.000	Recovery =		2.95%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	187030011	379.546 ppb
2) HBTM Motor Oil (C18-C36)	12.24	65049118	279.838 ppb

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

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108070.D
Sample : DIESEL 400 2ND SRC 11/8/11





TPH Extractables
TPH1108

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 66186
Date Analyzed: 11/11/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1110047.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	305473	256572	16	HATML	4.3
2							
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38							
39							
40							
		Average			16.0		

Quantitation Report (Not Reviewed)

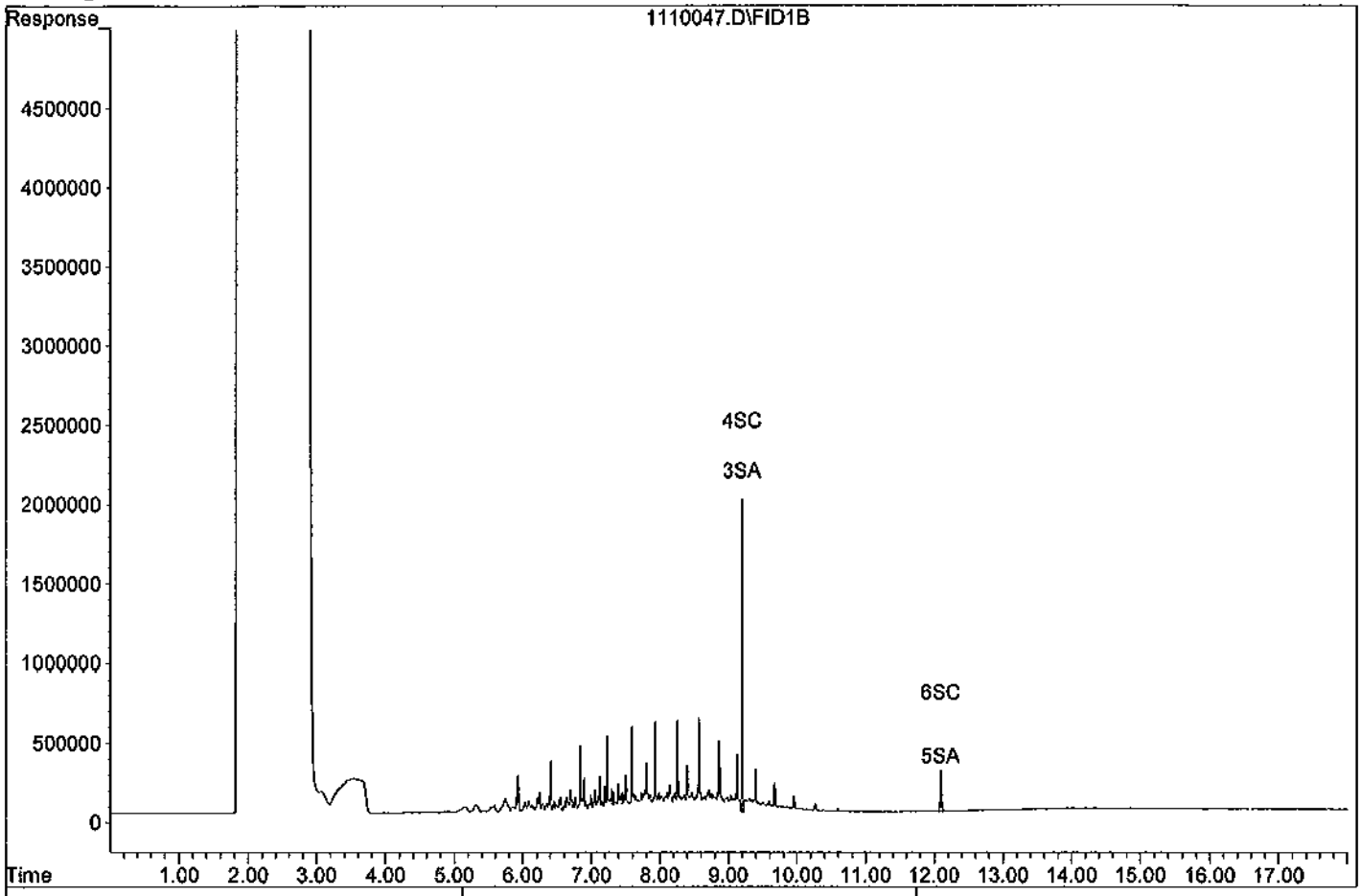
Data File : G:\APOLLO\DATA\111110\1110047.D Vial: 47
Acq On : 11-11-11 4:07:11 Operator: LAC
Sample : DIESEL 400/1000 11/8/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 11 13:41 2011 Quant Results File: TPH1108.RES

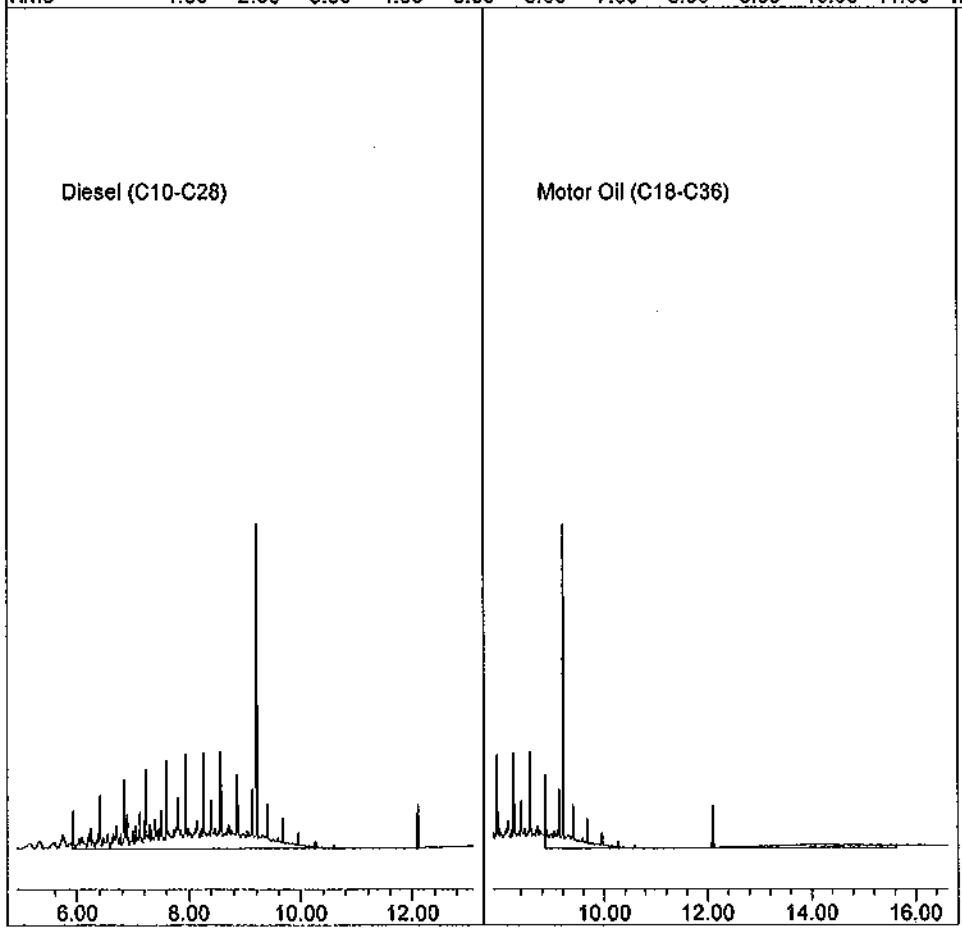
Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Nov 14 13:54:20 2011
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Not Used(S)	9.20	13963929	20.573	ppb
Surrogate Spike 30.000	Recovery =		68.58%	
4) SC Ortho-Terphenyl(S)	9.20	13963929	23.002	ppb
Surrogate Spike 30.000	Recovery =		76.67%	
5) SA Not Used2(S)	12.10	3538118	22.439	ppb
Surrogate Spike 30.000	Recovery =		74.80%	
6) SC Octacosane(S)	12.10	3538118	22.997	ppb
Surrogate Spike 30.000	Recovery =		76.66%	
Target Compounds				
1) HATM Diesel (C10-C28)	9.01	205257553	417.121	ppb
2) HBTM Motor Oil (C18-C36)	12.24	71360796	306.991	ppb

Data File: G:\APOLLO\DATA\111110\1110047.D
Sample : DIESEL 400/1000 11/8/11





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\111110\1110059.D Vial: 59
Acq On : 11-11-11 8:50:25 Operator: LAC
Sample : DIESEL 400/1000 11/8/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 14 11:26 2011 Quant Results File: TPH1108.RES

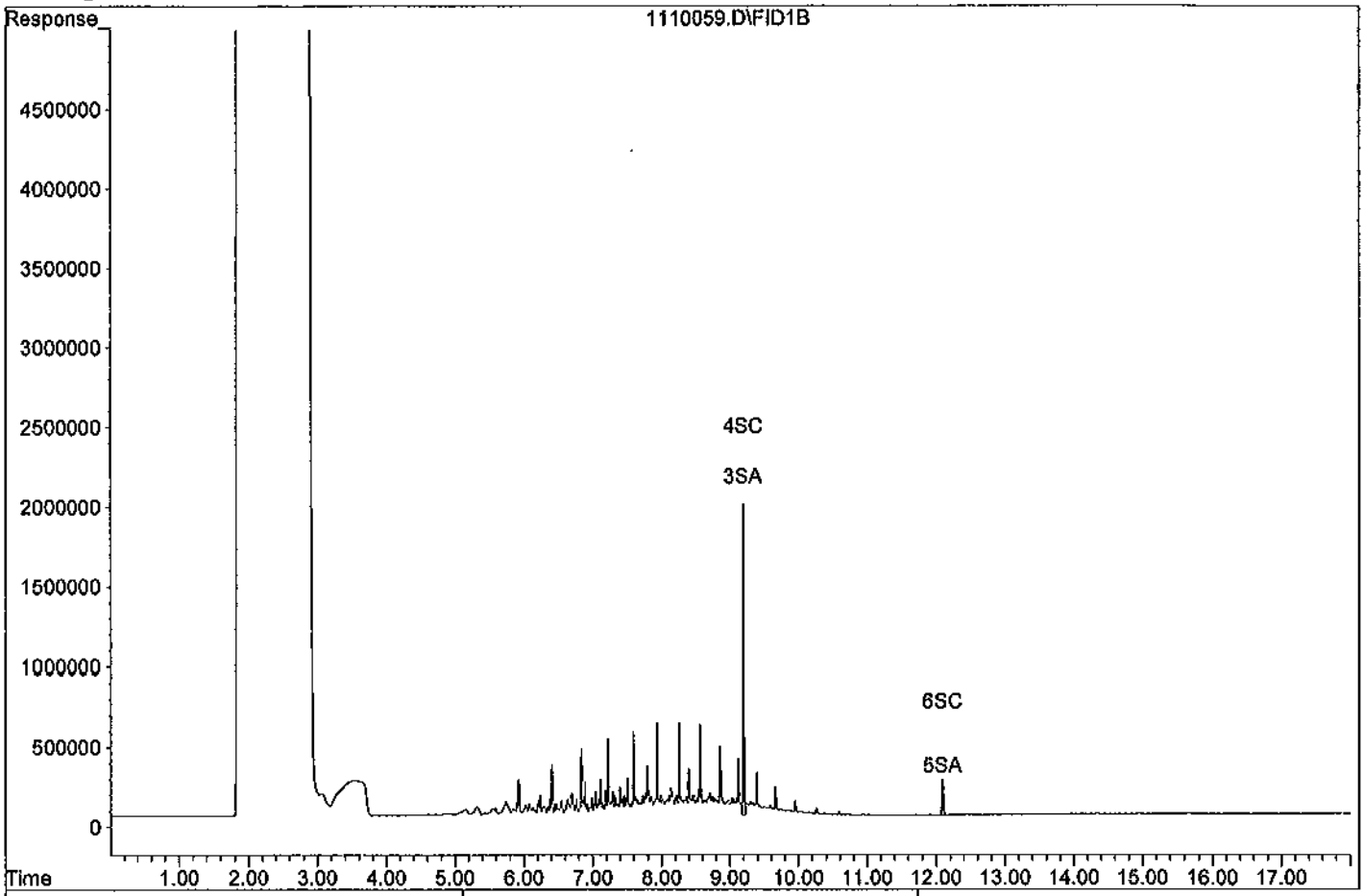
Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Nov 14 13:54:20 2011
Response via : Multiple Level Calibration

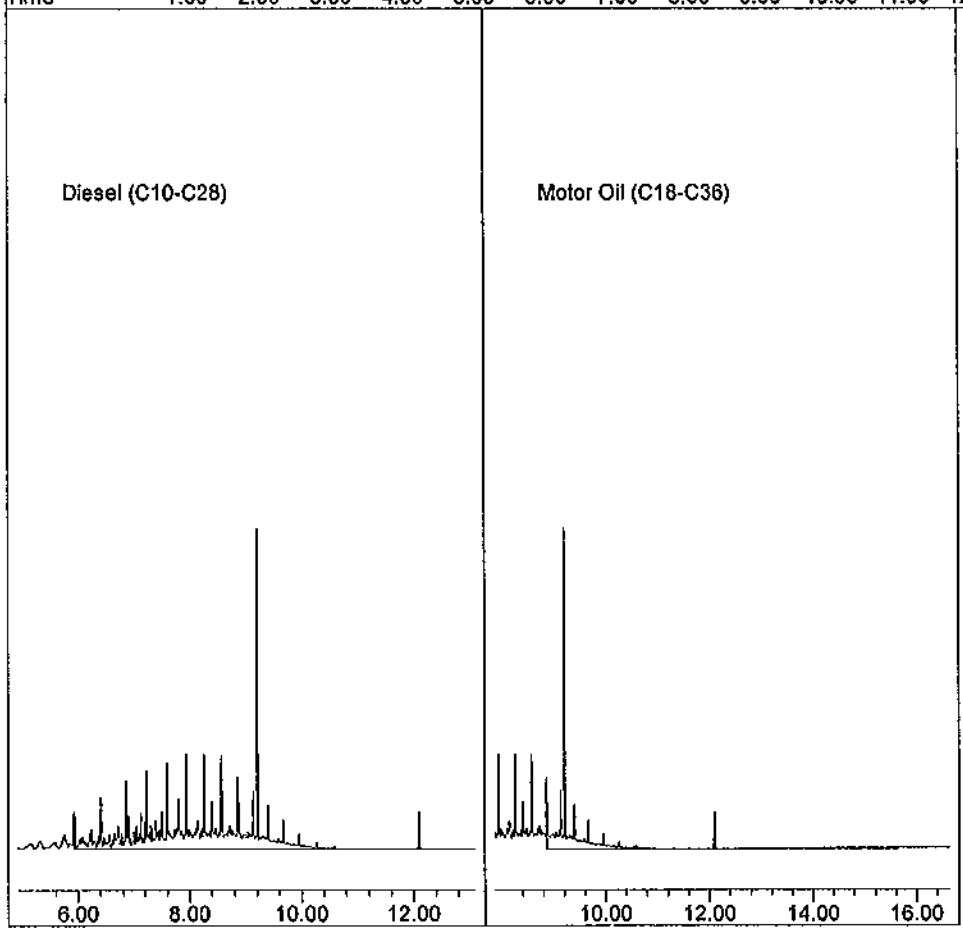
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Not Used(S)	9.20	13744549	20.250	ppb
Surrogate Spike 30.000	Recovery =		67.50%	
4) SC Ortho-Terphenyl(S)	9.20	13744549	22.641	ppb
Surrogate Spike 30.000	Recovery =		75.47%	
5) SA Not Used2(S)	12.09	3093601	19.620	ppb
Surrogate Spike 30.000	Recovery =		65.40%	
6) SC Octacosane(S)	12.09	3093601	20.108	ppb
Surrogate Spike 30.000	Recovery =		67.03%	
Target Compounds				
1) HATM Diesel (C10-C28)	9.01	199903834	406.084	ppb
2) HBTM Motor Oil (C18-C36)	12.24	58700378	252.526	ppb

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

Data File: G:\APOLLO\DATA\111110\1110059.D
Sample : DIESEL 400/1000 11/8/11





TPH Extractables
TPH1108

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 66186
Date Analyzed: 11/11/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1110059.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	305473	249880	18	HATML	1.5
2	HBTM	Motor Oil (C18-C36)	116226	119457	2.8	HBTM	
3							
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37							
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39							
40							
		Average			10.4		

EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data

Method Blank
TPH Diesel Water

Blank Name/QCG: **111108W-50005 - 161797**
Batch ID: #TPETD-111108A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	11/08/11	11/11/11
BLANK	SURROGATE: OCTACOSANE (S)	78.6	28-142			%	11/08/11	11/11/11
BLANK	SURROGATE: ORTHO-TERPHEN	78.5	57-132			%	11/08/11	11/11/11

Quant Method: TPH1108.M
Run #: 1110052
Instrument: APOLLO
Sequence: 111110
Initials: LA

GC SC-Blank-REG MDLs
Printed: 11/30/11 2:44:00 PM

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\111110\1110052.D Vial: 52
Acq On : 11-11-11 6:05:10 Operator: LAC
Sample : 111108A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Nov 30 14:30 2011 Quant Results File: TPH1108.RES

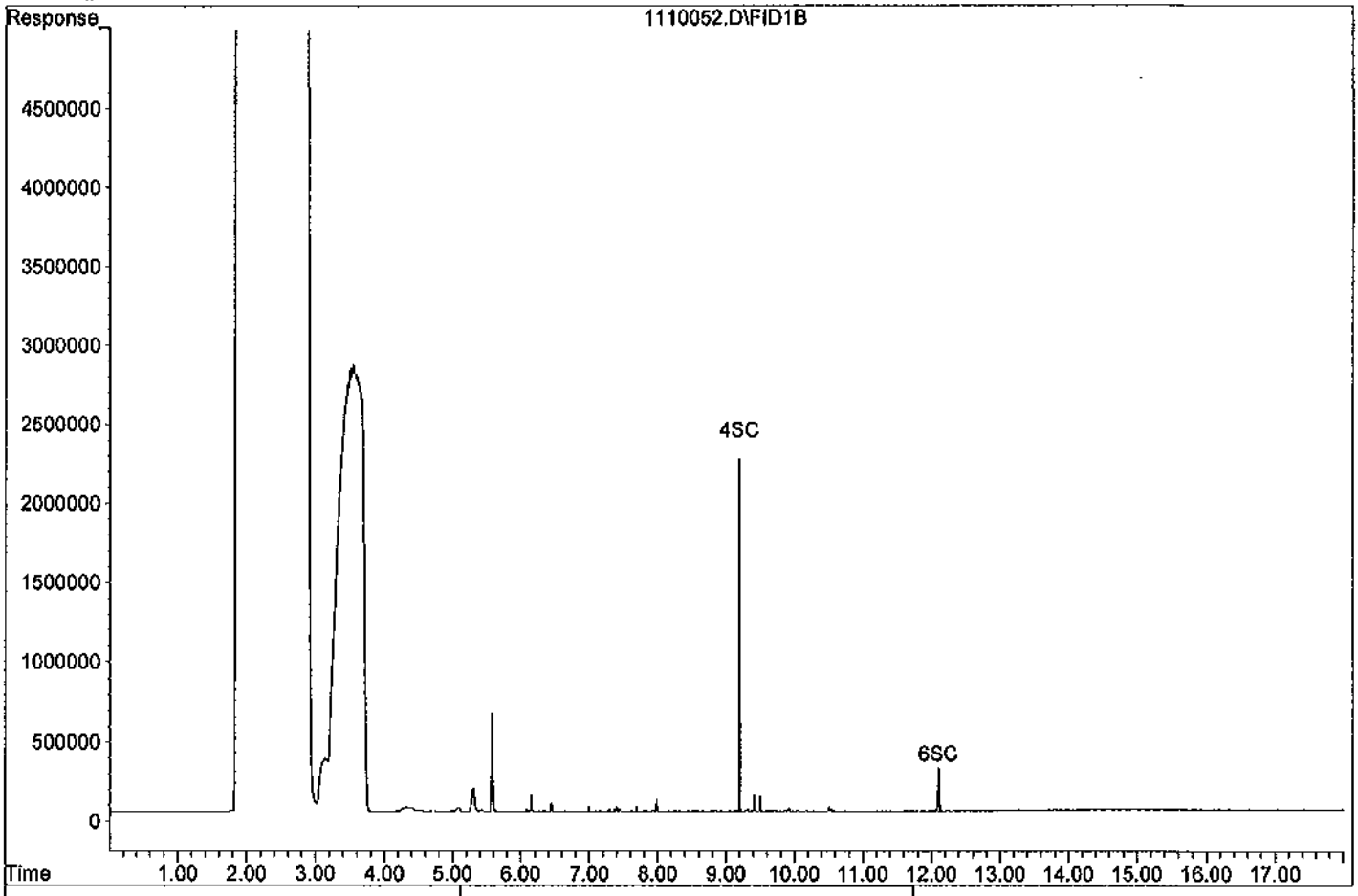
Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Nov 14 13:54:20 2011
Response via : Multiple Level Calibration

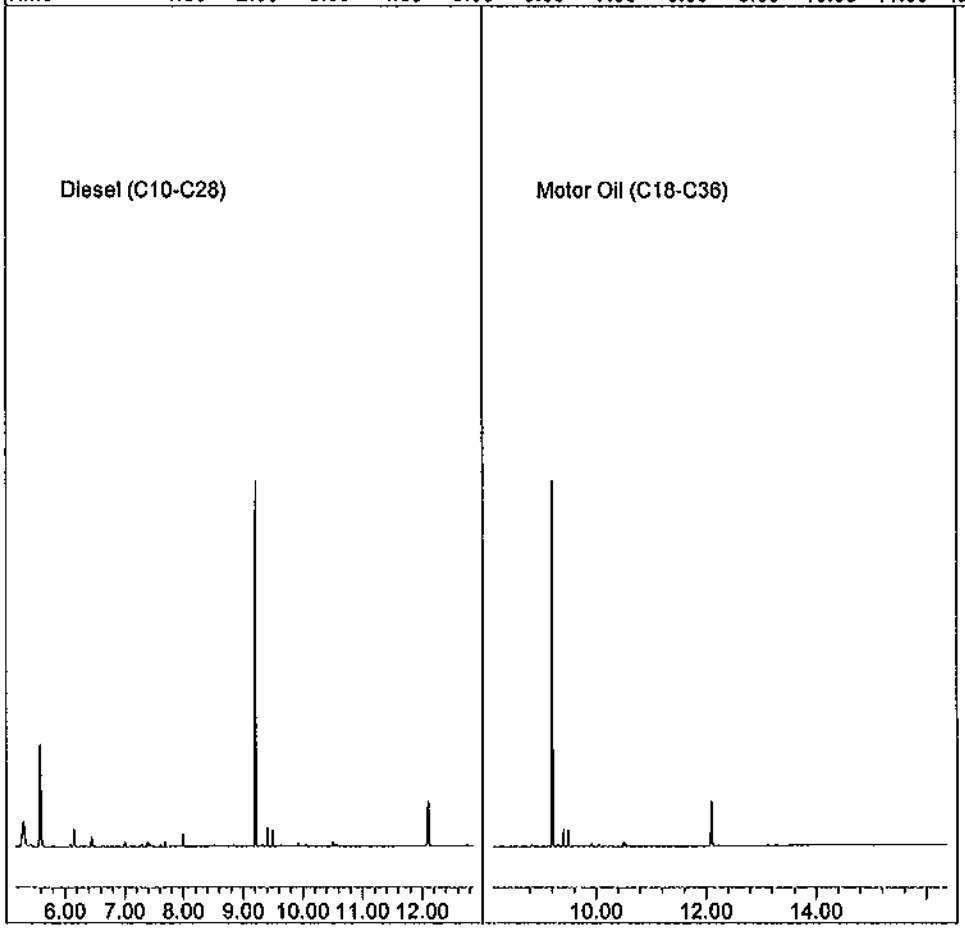
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.20	14295665	117.744 ppb
Surrogate Spike 150.000		Recovery =	78.50%
6) SC Octacosane(S)	12.10	3627288	117.883 ppb
Surrogate Spike 150.000		Recovery =	78.59%
Target Compounds			

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

Data File: G:\APOLLO\DATA\111110\1110052.D
Sample : 111108A BLK 5/1000





Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **111108W-50005 LCS - 161797**
Batch ID: #TPETD-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1620	81.0	61-143
SURROGATE: OCTACOSANE (S)	150	124	82.7	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	141	94.0	57-132

Comments:

Primary	SPK
Quant Method :	TPH1108.M
Extraction Date :	11/08/11
Analysis Date :	11/11/11
Instrument :	APOLLO
Run :	1110053
Initials :	LA

Printed: 11/30/11 2:43:56 PM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\111110\1110053.D Vial: 53
Acq On : 11-11-11 6:28:45 Operator: LAC
Sample : 111108A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Nov 30 14:30 2011 Quant Results File: TPH1108.RES

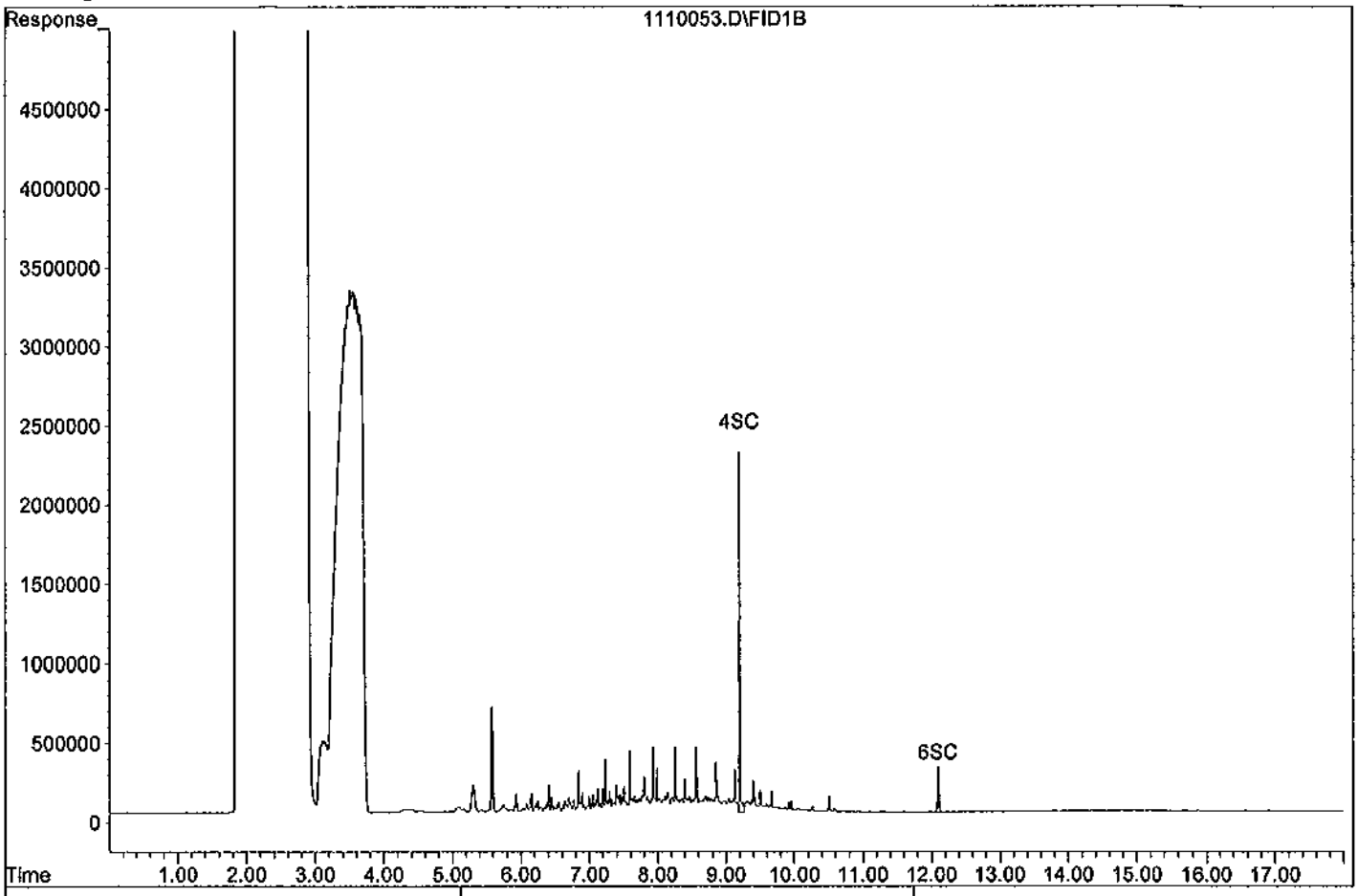
Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Nov 14 13:54:20 2011
Response via : Multiple Level Calibration

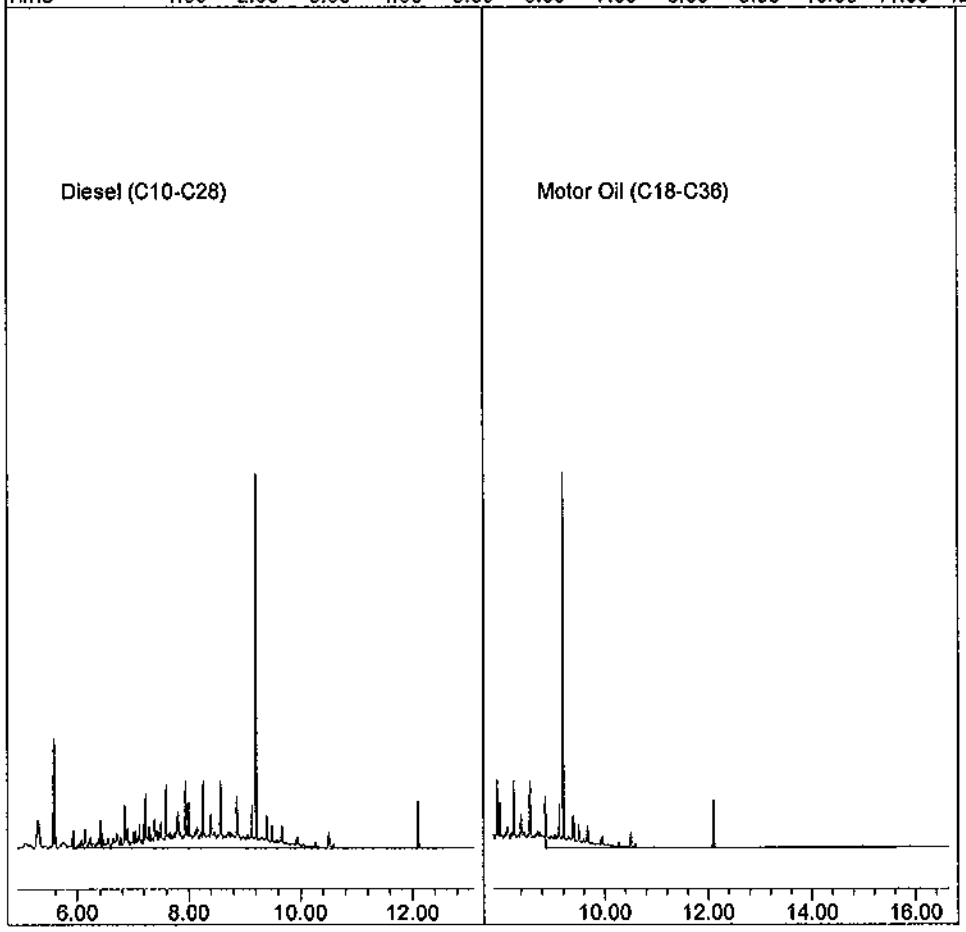
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.20	17106977	140.899 ppb
Surrogate Spike 150.000		Recovery =	93.93%
6) SC Octacosane(S)	12.10	3821271	124.187 ppb
Surrogate Spike 150.000		Recovery =	82.79%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	160007121	1619.200 ppb
2) HBTM Motor Oil (C18-C36)	12.24	52632663	1132.117 ppb

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

Data File: G:\APOLLO\DATA\111110\1110053.D
Sample : 111108A LCS-1 5/1000





STANDARD 052	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS

DIESEL STANDARD

DIESEL FUEL #2	50,000mg/L	0251	1000ml	50ML	1000mg/L	MC # 0517113	9/1/11 EX: 3/1/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
811598-43
Lot # 167768 Storage 5-10 Degrees C Expiry 2/15/15
Solvent Methylene Chloride
Diesel Fuel #2 Composite OP: 9/1/11
Lot #: 167768 - 28176 EX: 9/1/12
Rec: 1/20/11 MFR exp. 02/15/15

OCTACOSANE O-TERPHENYL	600mg/L	0251	4170ml		5Dmg/L		

CAT: 110316-05
LOT: 176405-29337
OP: 9/1/11
EX: 9/1/12

MOTOR OIL STANDARD

MOTOR OIL	50,000mg/L	0251	1000ml	50ML	1000mg/L	MC # 0517113	9/1/11 EX: 3/1/12

O2Si smart solutions
Motor Oil Composite, 50,000 mg/L, 1 ml
OP: 9/1/11 EX: 9/1/12
116390-02
Storage: </= -10 Degrees C
Made in USA Lot No: 161898
Exp: 7/23/2013
Solvent Methylene Chloride
Motor oil composite
Lot #: 161898 - 28615
Rec: 4/14/11 MFR exp. 07/23/13

DIESEL 2ND SOURCE

DIESEL FUEL #2	50,000mg/L	0281	1000ml	50ML	1000mg/L	MC # 0517113	9/1/11 EX: 3/1/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
811598-43
Lot # 167769 Storage 5-10 Degrees C Expiry 2/15/15
Solvent Methylene Chloride
Diesel Fuel #2 Composite OP: 9/1/11
Lot #: 167769 - 29397 EX: 9/1/12
Rec: 8/26/11 MFR exp. 02/15/15

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS
		DIESEL STANDARD					
DIESEL FUEL #2	50,000 mg/L	D2SI	600 ml	50 ml	1000 mg/L	MC # 51204	10/26/11 EX: 4/26/12
	Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml — 116390-03 — Lot # 167768 — Storage 5-10 Degrees C — Expiry 2/15/15 — Solvent: Methylene Chloride — Diesel Fuel #2 Composite — Lot #: 167768 - 29406 — Rec: 8/26/11 MFR exp. 02/15/15 — OP: 10/26/11 EX: 10/26/12						
TERPHENYL	600 mg/L	D2SI	4170 ml		50 mg/L		
HEXANE	CAT: 110316-05 LOT: 176405-29328 OP: 10/10/11 EX: 10/10/12						
		MOTOR OIL STANDARD					
MOTOR OIL	50,000 mg/L	D2SI	1000 ml	50 ml	1000 mg/L	MC # 51204	10/26/11 EX: 4/26/12
	O2si — Motor Oil Composite, 50,000 mg/L, 1 ml — 116390-02 — Storage: 5 -10 Degrees C — Made in USA — Lot No: 161898 — Solvent: Methylene Chloride — Exp: 7/23/2013 — Motor oil composite — Lot #: 161898 - 28616 — Rec: 4/14/11 MFR exp. 07/23/13 — OP: 10/26/11 EX: 10/26/12						

		PAC ECO 2ND SOURCE			
DIAZINON	5ug/ml	200ug/ml	250ul	O2SI	10ml
DISULFOTON		200	CAT:	130169-01	HEXANE
MALATHION		200	LOT:	178204-29481	LOT#
MOLINATE		200	OP:	10/26/2011	082610B
PHORATE		200	EXP:	3/11/2012	
THIOBENCARB		200			
TRIBUTYL PHOSPHATE		200			
DEMETON		200			
DISCHLORVOS		200			
EPTC		200			
PARATHION		200			
AZINPHOS METHYL		200			
CHLORPYRIFOS		200			
DIMETHOATE		200			
METHIDATHION		200			
METHYL PARATHION		200			
ATRAZINE		200			
CYANIZINE		200			
TRIPHENYL PHOSPHATE		200			
PENDIMETHALIN (PROWL		200			
TRIFLURALIN		200			
SIMAZINE		200			

10/26/11

EX: 3/11/12

10/26/11

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT#	DATE / 0899

11/1/11

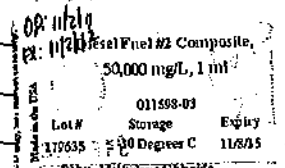
Technical Chlordane Standard / Spike

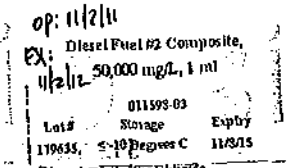
STANDARD	INIT CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT
Technical	100 ug/ml	Absolute	500 µL	5 mL	10 µg/mL	Hexane
Chlordane	Part:	91824				Lot#
	Lot:	121008-28981				082610B
	open:	7/15/2011				
	exp:	7/15/2012				

11/1/11
EX: 5/1/12

DIESEL SPIKE

DIESEL FUEL #2	50,000ug/L	025I	2000mL	50mL	2000ug/L	MC # 51204	11/2/11 EX: 2/2/12

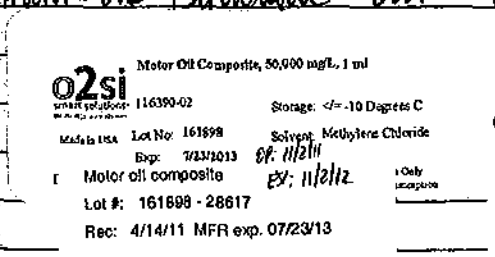


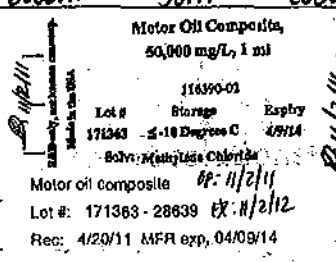


11/2/11

MOTOR OIL SPIKE

MOTOR OIL	50,000ug/L	025I	2000mL	50mL	2000ug/L	MC # 51204	11/2/11 EX: 2/2/12





OCL SOIL SURROGATE

DECA TCMX DBC	500ng/uL	025I	400mL	100mL	20ng/uL	ACETONE # 0110IIC	11/2/11 EX: 2/2/12

CAT: 130070-02
LOT: 154164-29416
OP: 11/2/11
EX: 11/2/12

OCL SOIL SPIKE

VARIOUS	100ng/uL	025I	1000mL	50mL	20ng/uL	Acetone # 0110IIC	11/2/11 EX: 2/2/12

CAT: 130015-05
LOT: 148748
OP: 11/2/11
EX: 11/2/12

STANDARD

	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE: 11/7/11

11/7/11

PREP:	11/7/2011												
PAC ECO CURVE													
EXP:	2/25/2012												
	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
	PAC ECO CAL STD	5		10/26/2011	2/25/2012	2	10	50	200	500	700	1000
VWR	Hexane		010711A			998	990	950	800	500	300	N/A
					Final VOL.	1000	1000	1000	1000	1000	1000	1000
PAC ECO 2ND SRC				DATE	EXP. DATE							
Prep: 11/7/11	Exp: 12/17/11	5	010711A	10/28/2011	12/17/2011	600/1000						

11/7/11 Ex: 2/25/12

11/7/11 Ex: 12/17/11

TCH SURROGATE CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50	176405	10/17/2011	4/17/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

11/8/11 Ex: 4/17/12

DIESEL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		10/26/2011	4/26/2012	10	100	400	600	800	1000
MC		51204			990	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

11/8/11 Ex: 4/26/12

MOTOR OIL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		10/26/2011	4/26/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

DIESEL 2ND SOURCE

STD	Init. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL 2ND SRC	1000µg/ml	O2SI	400µL	1 mL	400 µg/mL	MC
	Prep:	9/1/2011				51204
	Exp:	3/1/2012				

11/8/11 Ex: 3/1/12

11/9/11

PREP DATE:	11/9/2011											
TERBACIL CURVE												
EXP:	3/13/2012											
						0.05	0.25	1	2.5	3.5	5	
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	
	TERBACIL STD	5		9/13/2011	3/13/2012	10	50	200	500	700	1000	
VWR	HEXANE		082610B			990	950	800	500	300		
					Final VOL.	1000	1000	1000	1000	1000	1000	

11/9/11 Ex: 3/13/12

PREP DATE:	11/9/2011					
OP 2ND SOURCE						
EXP:	4/19/2012					
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL
	OP 2ND SRC	5		10/19/2011	4/19/2012	500
VWR	HEXANE		082610B			500
					Final VOL.	1000

11/9/11 Ex: 4/19/12

11/9/11

PREP DATE:	11/8/2011											
OPF CURVE												
EXP:	2/7/2012											
						EA	1	2	3	4	5	6
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
	OPF STD	5		11/3/2011	2/7/2012	2	10	50	200	500	700	1000
	Hexane		082610B			998	990	950	800	500	300	NA
					Final VOL.	1000	1000	1000	1000	1000	1000	1000

11/9/11 Ex: 2/7/12

STANDARD	INITIAL CONC	SOURCE	DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
PCB SOIL SPIKE								
AR 1260 AR 1016	1000ng/mL	0251 CAT: 130011-03 LOT: 163607-27215 OP: 11/10/11 EX: 11/10/12 AND LOT: 152374-27210 OP: 3/2/11 EX: 3/2/12		1250mL	25mL	50ng/mL	ACETONE #	11/10/11 EX: 2/10/12
PCB WATER SPIKE								
AR1016 AR1260	1000ng/mL	0251 CAT: 130011-03 LOT: 163607-27214 OP: 8/2/11 EX: 8/2/12		125mL	25mL	5ng/mL	ACETONE #	11/10/11 EX: 2/10/12
HERB 100/1000 (LVL 3) CCV								
VARIOUS SEE PG 015	VARIOUS	HERB STD. PREP: 10/11/11 EX: 4/11/12		190mL	1mL	100ng/mL	MTBE #	11/10/11 EX: 4/11/12
THC SURROGATE CAL. STD.								
D-TERPANYL DECAHOSANE	1000ng/mL	0251 CAT: 110316-05 LOT: 176405-29342 OP: 10/10/11 EX: 10/10/12		834mL	10mL	50ng/mL	MC #	11/15/11 EX: 5/15/12

LAC 11/15/11

TCH SURROGATE CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50	176405	11/15/2011	5/15/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

LAC 11/15/11
EX 5/15/12

_SEP011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	111108A	Extraction Method	SEP011	Units	mL

Spiked ID 1	Diesel Spike 11/2/11 EX 2/2/12		Surrogate ID 1	THC Surrogate 176405-29338	
Spiked ID 2	Motor Oil Spike 11/2/11 EX 2/2/12		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	no	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	11/17/11 0:00	

pH1			Water Bath Temp Criteria	80 °C
pH2				
pH3				

Spiked By: HW **Date** 11/8/2011 **Witnessed By:** CC **Date** 11/8/2011

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	111108A Blk				0.250	1	1000	5	7	11/08/11 12:40	
						equip	E-WB5				
2	111108A LCS-1		1	1	0.250	1	1000	5	7	11/08/11 12:40	
						equip	E-WB5				
3	111108A LCS-2		1	2	0.250	1	1000	5	7	11/08/11 12:40	
						equip	E-WB5				
4	AY50005	AY50005W07			0.250	1	1030	5	7	11/08/11 12:40	66186-2 week rush -- Amber Liter
						equip	E-WB5				
5	AY50011	AY50011W09			0.250	1	1050	5	7	11/08/11 12:40	66187-2 week rush -- Amber Liter
						equip	E-WB5				
6	AY50017	AY50017W08			0.250	1	1050	5	7	11/08/11 12:40	66187-2 week rush -- Amber Liter
						equip	E-WB5				
7	AY50141	AY50141W06			0.250	1	1050	5	7	11/08/11 12:40	66206-2 week rush -- Amber Liter
						equip	E-WB5				

HW 11/8/11

Solvent and Lot#	
MC	BMD 51204
Na2SO4	3581C501

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	
Date	11/9/11
Time	16:49
Refrigerator	1508ACT

	Technician's Initials
Scanned By	HW
Sample Preparation	HW
Extraction	HW
Concentration	HW

Modified	11/8/2011 12:09:28 PM

Reviewed By: HW **Date** 11/8/2011

Injection Log

Directory: G:\APOLLO\DATA\111108\111110

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	5	1108005.D	1	DIESEL 100/1000	Mix(A)	11-8-11 15:50:59
2	6	1108006.D	1	DIESEL 400/1000	Mix(A)	11-8-11 16:14:36
3	7	1108007.D	1	DIESEL 600/1000	Mix(A)	11-8-11 16:38:14
4	8	1108008.D	1	DIESEL 800/1000	Mix(A)	11-8-11 17:01:53
5	9	1108009.D	1	DIESEL 1000/1000	Mix(A)	11-8-11 17:25:32
6	11	1108011.D	1	MOTOR OIL 50/1000 11/8/11	Mix(B)	11-8-11 18:12:45
7	12	1108012.D	1	MOTOR OIL 100/1000	Mix(B)	11-8-11 18:36:14
8	13	1108013.D	1	MOTOR OIL 400/1000	Mix(B)	11-8-11 18:59:47
9	14	1108014.D	1	MOTOR OIL 600/1000	Mix(B)	11-8-11 19:23:20
10	15	1108015.D	1	MOTOR OIL 800/1000	Mix(B)	11-8-11 19:46:53
11	16	1108016.D	1	MOTOR OIL 1000/1000	Mix(B)	11-8-11 20:10:21
12	17	1108017.D	1	THC SURR 10/1000 11/8/11	Mix(C)	11-8-11 20:33:47
13	18	1108018.D	1	THC SURR 100/1000	Mix(C)	11-8-11 20:57:14
14	19	1108019.D	1	THC SURR 400/1000	Mix(C)	11-8-11 21:20:36
15	20	1108020.D	1	THC SURR 600/1000	Mix(C)	11-8-11 21:43:59
16	21	1108021.D	1	THC SURR 800/1000	Mix(C)	11-8-11 22:07:20
17	22	1108022.D	1	THC SURR 1000/1000	Mix(C)	11-8-11 22:30:39
18	69	1108069.D	1	DIESEL 10/1000 11/8/11	Mix(A)	11-9-11 17:18:58
19	70	1108070.D	1	DIESEL 400 2ND SRC 11/8/11	Mix(A)	11-9-11 17:42:38
20	47	1110047.D	1	DIESEL 400/1000 11/8/11	Mix(A)	11-11-11 4:07:11
21	52	1110052.D	5	111108A BLK 5/1000	Water	11-11-11 6:05:10
22	53	1110053.D	5	111108A LCS-1 5/1000	Water	11-11-11 6:28:45
23	55	1110055.D	4.85437	AY50005W07 5/1030	Water	11-11-11 7:15:54
24	59	1110059.D	1	DIESEL 400/1000 11/8/11	Mix(A)	11-11-11 8:50:25

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons

APPL, INC.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
QC Summary

APPL, INC.

Method Blank
EPA 8270D SIM

Blank Name/QCG: **111108W-50005 - 162179**
Batch ID: #SIMHC-111108A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	SURROGATE: 2-FLUORBIPHENY	55.5	50-110			%	11/08/11	11/10/11
BLANK	SURROGATE: NITROBENZENE-	54.3	40-110			%	11/08/11	11/10/11
BLANK	SURROGATE: TERPHENYL-D14 (	118	50-135			%	11/08/11	11/10/11

Quant Method:SIM2.M
Run #:1110L003
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 12/09/11 6:52:02 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66186

Case No: 66186 Date Analyzed: 11/10/11

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111108A-BLK	Blank	50-110	55.5		40-110	54.3	
111108A-LCS	Lab Control Spike	50-110	52.5		40-110	65.5	
AY50005	ES057	50-110	62.7		40-110	72.6	

Comments: Batch: #SIMHC-111108A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66186

Case No: 66186 Date Analyzed: 11/10/11

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
111108A-BLK	Blank	50-135	118				
111108A-LCS	Lab Control Spike	50-135	122				
AY50005	ES057	50-135	111				

Comments: Batch: #SIMHC-111108A

Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: **111108W-50005 LCS - 162179**
Batch ID: #SIMHC-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1-METHYLNAPHTHALENE	4.00	2.49	62.3	45-105
2-METHYLNAPHTHALENE	4.00	2.53	63.2	45-105
ACENAPHTHENE	4.00	2.74	68.5	45-110
ACENAPHTHYLENE	4.00	2.50	62.5	50-105
ANTHRACENE	4.00	2.86	71.5	55-110
BENZO(A)ANTHRACENE	4.00	3.45	86.3	55-110
BENZO(A)PYRENE	4.00	2.73	68.3	55-110
BENZO(B)FLUORANTHENE	4.00	3.28	82.0	45-120
BENZO(GHI)PERYLENE	4.00	2.98	74.5	40-125
BENZO(K)FLUORANTHENE	4.00	2.78	69.5	45-125
CHRYSENE	4.00	2.59	64.8	55-110
DIBENZ(A,H)ANTHRACENE	4.00	3.11	77.8	40-125
FLUORANTHENE	4.00	3.05	76.3	55-115
FLUORENE	4.00	2.69	67.3	50-110
INDENO(1,2,3-CD)PYRENE	4.00	3.14	78.5	45-125
NAPHTHALENE	4.00	2.22	55.5	40-100
PHENANTHRENE	4.00	2.60	65.0	50-115
PYRENE	4.00	2.73	68.3	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.05	52.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.31	65.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	2.43	122	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	11/08/11
Analysis Date :	11/10/11
Instrument :	Linus
Run :	1110L004
Initials :	LF

Printed: 12/09/11 6:52:11 PM

APPL Standard LCS

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66186

Case No: 66186 Date Analyzed: 11/10/11

Matrix: WATER Instrument: Linus

Blank ID: 111108A-BLK Time Analyzed: 1947

APPL ID.	Client Sample No.	File ID.	Date Analyzed
111108A-BLK	Blank	1110L003	11/10/11 1947
111108A-LCS	Lab Control Spike	1110L004	11/10/11 2012
AY50005	ES057	1110L005	11/10/11 2038

Comments: Batch: #SIMHC-111108A

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 66186
Matrix: Water
ID: SVTUNE 10-27-11

SDG No: 66186
Date Analyzed: 11/10/11
Instrument: Linus
Time Analyzed: 19:03

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	111108A BLK 1/1000	1110L003.D	11/10/11 19:47
2	Lab Control Spike	111108A LCS-1 1/1000	1110L004.D	11/10/11 20:12
3	ES057	AY50005W05 1/1050	1110L005.D	11/10/11 20:38
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	29.95 - 60% of mass 198	52.6
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.1
127	40 - 60% of mass 198	49.8
197	0 - 1% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.9
275	10 - 30% of mass 198	28.8
365	1 - 100% of mass 198	2.8
441	0.01 - 100% of mass 443	74.8
442	40 - 150% of mass 198	79.8
443	17 - 23% of mass 442	20.1

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: SDG No.: 66186

Lab File ID (Standard): 1028L007.D Date Analyzed: 10/28/11

Instrument ID: Linus Time Analyzed: 11:58

GC Column: ID: Heated Purge: (Y/N)

		Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2479	6.12	1083	8.11	1851	9.85
	UPPER LIMIT	4958	6.62	2166	8.61	3702	10.35
	LOWER LIMIT	1240	5.62	542	7.61	926	9.35
	SAMPLE NO.						
01	111108A BLK 1/1000	2288	6.12	1021	8.12	1840	9.86
02	111108A LCS-1 1/1000	2376	6.12	1055	8.12	1891	9.86
03	AY50005W05 1/1050	2197	6.12	977	8.12	1765	9.86
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: SDG No.: 66186

Lab File ID (Standard): 1028L007.D Date Analyzed: 10/28/11

Instrument ID: Linus Time Analyzed: 11:58

GC Column: ID: Heated Purge: (Y/N)

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2378	12.93	1871	14.56		
	UPPER LIMIT	4756	13.43	3742	15.06		
	LOWER LIMIT	1189	12.43	936	14.06		
	SAMPLE NO.						
01	111108A BLK 1/1000	2623	12.95	2235	14.59		
02	111108A LCS-1 1/1000	2640	12.95	2275	14.58		
03	AY50005W05 1/1050	2529	12.96	2146	14.59		
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Sample Data

APPL, INC.

EPA 8270D SIM

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024
Sample ID: ES057
Sample Collection Date: 11/02/11

ARF: 66186
APPL ID: AY50005
QCG: #SIMHC-111108A-162179

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	62.7	50-110			%	11/08/11	11/10/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	72.6	40-110			%	11/08/11	11/10/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	111	50-135			%	11/08/11	11/10/11

Quant Method: SIM2.M
Run #: 1110L005
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 12/09/11 6:52:16 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1110L005.D
Acq On : 10 Nov 11 20:38
Sample : AY50005W05 1/1050
Misc :

Vial: 5
Operator: LF
Inst : Linus
Multiplr: 0.95

Quant Time: Nov 16 15:49 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Nov 09 14:09:04 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2197	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.12	164	977	2.50000 ppb	0.01
11) Phenanthrene-D10(IS)	9.86	188	1765	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.96	240	2529	2.50000 ppb	0.03
21) Perylene-D12(IS)	14.59	264	2146	2.50000 ppb	0.03
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.42	82	571	1.38207 ppb	0.02
Spiked Amount 1.905			Recovery = 72.555%		
7) Surrogate Recovery (FBP)	7.36	172	1093	1.19518 ppb	0.01
Spiked Amount 1.905			Recovery = 62.738%		
17) Surrogate Recovery (TPH)	11.72	244	2419	2.11556 ppb	0.01
Spiked Amount 1.905			Recovery = 111.090%		

Target Compounds Qvalue

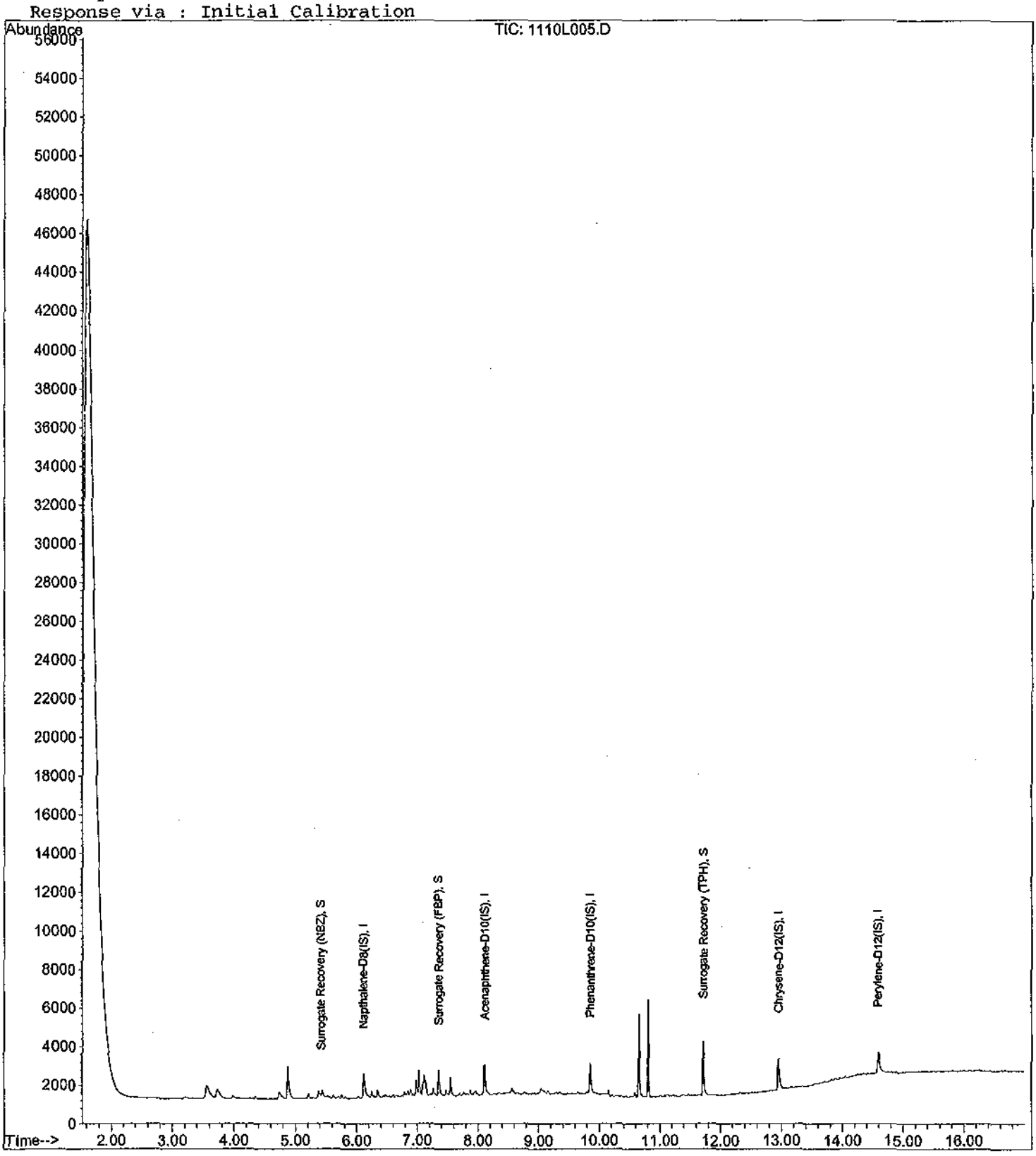
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1110L005.D Vial: 5
Acq On : 10 Nov 11 20:38 Operator: LF
Sample : AY50005W05 1/1050 Inst : Linus
Misc : Multiplr: 0.95

Quant Time: Nov 16 15:49 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 11 16:40:11 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

APPL, INC.

EPA 8270C SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66186
Case No: Initial Cal. Date: 10/27/11
Matrix: Instrument: Linus
Initials:

			1027L003.D	1027L004.D	1028L005.D	1028L006.D	1028L007.D	1028L008.D	1028L009.D	1028L010.D						
		Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD		
1	I	Napthalene-D8(IS)														
2	S	Surrogate Recovery (NBZ)	0.4127	0.4673	0.4961	0.4588	0.3927	0.4106	0.4509	0.4908			0.45	8.7	S	
3	TM	Naphthalene	1.848	2.053	1.897	1.975	1.484	1.725	1.497	1.455			1.7	14	TM	
4	TM	2-Methylnaphthalene	0.8339	0.8429	0.8095	0.9618	0.8735	1.026	0.9052	0.8919			0.89	8.0	TM	
5	TM	1-Methylnaphthalene	1.006	1.140	1.127	1.262	0.9445	1.066	0.8694	0.8324			1.0	14	TM	
6	I	Acenaphthene-D10(IS)														
7	S	Surrogate Recovery (FBP)	2.266	2.373	2.477	2.606	2.184	2.112	1.948	1.864			2.2	11	S	
8	TM	Acenaphthylene	3.556	3.474	3.469	3.747	3.046	3.265	3.097	2.960			3.3	8.4	TM	
9	*TM	Acenaphthene	2.197	2.003	2.015	2.153	1.761	1.820	1.687	1.595			1.9	12	*TM	
10	TM	Fluorene	2.179	2.202	2.246	2.358	1.948	2.057	1.915	1.761			2.1	9.5	TM	
11	I	Phenanthrene-D10(IS)														
12	TM	Phenanthrene	1.851	1.670	1.765	1.775	1.470	1.719	1.377	1.248			1.6	13	TM	
13	TM	Anthracene	1.736	1.681	1.869	1.846	1.493	1.754	1.415	1.278			1.6	13	TM	
14	*TM	Fluoranthene	3.116	3.004	3.048	3.052	2.530	3.014	2.407	2.162			2.8	13	*TM	
15	I	Chrysene-D12(IS)														
16	TM	Pyrene	2.537	2.408	2.291	2.412	2.045	2.168	1.892	1.849			2.2	12	TM	
17	S	Surrogate Recovery (TPH)	1.147	1.155	1.070	1.235	1.097	1.067	0.9366	0.9044			1.1	10	S	
18	TM	Benz (a) anthracene	1.767	1.435	1.243	1.561	1.267	1.372	1.372	1.578			1.4	12	TM	
19	TM	Chrysene	2.135	2.066	2.037	2.114	1.981	2.084	1.655	1.438			1.9	13	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.825	1.519	1.284	1.532	1.378	1.521	1.460	1.500			1.5	10	TM	
21	I	Perylene-D12(IS)														
22	TM	Benzo (b) fluoranthene	1.711	1.652	1.826	1.857	1.789	1.866	1.765	1.625			1.8	5.2	TM	
23	TM	Benzo (k) fluoranthene	2.136	1.797	1.882	1.854	1.869	1.935	1.561	1.548			1.8	11	TM	
24	*TM	Benzo (a) pyrene	2.001	1.899	1.650	1.686	1.673	1.757	1.585	1.533			1.7	9.2	*TM	
25	TM	Dibenz (a,h) anthracene	1.773	1.577	1.175	1.438	1.356	1.477	1.399	1.379			1.4	12	TM	
26	TM	Benzo (g,h,i) perylene	1.410	1.754	1.503	1.639	1.449	1.558	1.444	1.446			1.5	7.8	TM	
27																
28																
29																
30																
31																
32																
33																
34																
35																

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1027L003.D Vial: 3
Acq On : 27 Oct 11 19:12 Operator: LF
Sample : 0.1ug/ml PAH 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 30 11:15 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Sun Oct 30 10:57:42 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.14	136	2908	2.50000 ppb		0.02
6) Acenaphthene-D10(IS)	8.12	164	1434	2.50000 ppb		0.01
11) Phenanthrene-D10(IS)	9.87	188	2391	2.50000 ppb		0.02
15) Chrysene-D12(IS)	12.95	240	2986	2.50000 ppb		0.02
21) Perylene-D12(IS)	14.58	264	2411	2.50000 ppb		0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.61	82	48	0.74306 ppb		0.19
Spiked Amount 2.000			Recovery	= 37.150%		
7) Surrogate Recovery (FBP)	7.40	172	130	0.09815 ppb		0.05
Spiked Amount 2.000			Recovery	= 4.900%		
17) Surrogate Recovery (TPH)	11.74	244	137	0.09107 ppb		0.02
Spiked Amount 2.000			Recovery	= 4.550%		
Target Compounds						Qvalue
3) Naphthalene	6.17	128	215	0.10425 ppb		93
4) 2-Methylnaphthalene	7.01	142	97	0.09198 ppb		99
5) 1-Methylnaphthalene	7.08	142	117	0.09071 ppb		97
8) Acenaphthylene	7.99	152	204	0.10524 ppb		99
9) Acenaphthene	8.16	154	126	0.11351 ppb		94
10) Fluorene	8.81	166	125	0.10297 ppb		98
12) Phenanthrene	9.90	178	177	0.11216 ppb		95
13) Anthracene	9.99	178	166	0.10145 ppb		95
14) Fluoranthene	11.30	202	298	0.10883 ppb	#	90
16) Pyrene	11.56	202	303	0.11040 ppb		99
18) Benz (a) anthracene	12.95	228	211	0.11702 ppb		96
19) Chrysene	12.98	228	255	0.09385 ppb		98
20) Indeno (1,2,3-cd) pyrene	16.19	276	218	0.11665 ppb	#	93
22) Benzo (b) fluoranthene	14.15	252	165	0.09422 ppb	#	95
23) Benzo (k) fluoranthene	14.19	252	206	0.11693 ppb		65
24) Benzo (a) pyrene	14.54	252	193	0.11081 ppb		95
25) Dibenz (a,h) anthracene	16.17	278	171	0.11827 ppb		92
26) Benzo (g,h,i) perylene	16.64	276	136	0.08955 ppb	#	89

(#) = qualifier out of range (m) = manual integration

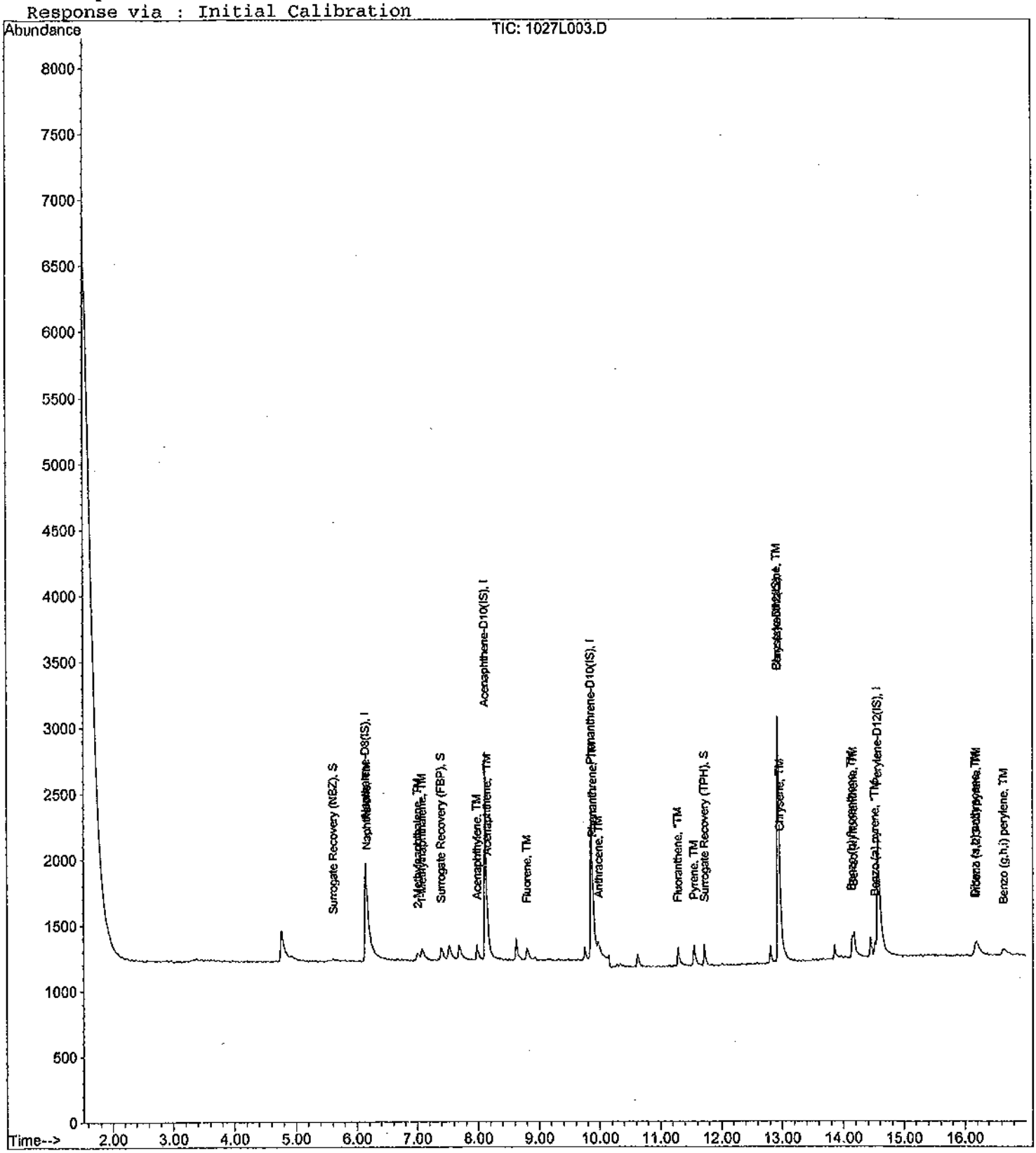
Quantitation Report

Data File : M:\LINUS\DATA\L111027\1027L003.D
Acq On : 27 Oct 11 19:12
Sample : 0.1ug/ml PAH 10-27-11
Misc :

Vial: 3
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:15 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1027L004.D Vial: 4
Acq On : 27 Oct 11 19:38 Operator: LF
Sample : 0.2ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 30 11:13 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Sun Oct 30 10:57:42 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.14	136	2862	2.50000 ppb		0.02
6) Acenaphthene-D10(IS)	8.12	164	1317	2.50000 ppb		0.01
11) Phenanthrene-D10(IS)	9.87	188	2305	2.50000 ppb		0.02
15) Chrysene-D12(IS)	12.95	240	2814	2.50000 ppb		0.02
21) Perylene-D12(IS)	14.58	264	2323	2.50000 ppb		0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.60	82	107	0.84083 ppb		0.18
Spiked Amount 2.000			Recovery = 42.050%			
7) Surrogate Recovery (FBP)	7.40	172	250	0.20995 ppb		0.05
Spiked Amount 2.000			Recovery = 10.500%			
17) Surrogate Recovery (TPH)	11.72	244	260	0.18421 ppb		0.01
Spiked Amount 2.000			Recovery = 9.200%			
Target Compounds						Qvalue
3) Naphthalene	6.17	128	470	0.23025 ppb		94
4) 2-Methylnaphthalene	7.00	142	193	0.18513 ppb		92
5) 1-Methylnaphthalene	7.07	142	261	0.20451 ppb		98
8) Acenaphthylene	7.99	152	366	0.20677 ppb		98
9) Acenaphthene	8.16	154	211	0.20826 ppb		87
10) Fluorene	8.81	166	232	0.20927 ppb		99
12) Phenanthrene	9.90	178	308	0.20239 ppb		96
13) Anthracene	9.99	178	310	0.19992 ppb		95
14) Fluoranthene	11.29	202	554	0.20981 ppb		95
16) Pyrene	11.55	202	542	0.21034 ppb	#	91
18) Benz (a) anthracene	12.95	228	323	0.19084 ppb		97
19) Chrysene	12.98	228	465	0.18296 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.17	276	342	0.19494 ppb	#	96
22) Benzo (b) fluoranthene	14.15	252	307	0.18266 ppb		97
23) Benzo (k) fluoranthene	14.19	252	334	0.18857 ppb		64
24) Benzo (a) pyrene	14.54	252	353	0.21468 ppb		96
25) Dibenz (a,h) anthracene	16.16	278	293	0.21252 ppb		92
26) Benzo (g,h,i) perylene	16.64	276	326	0.22362 ppb		88

(#) = qualifier out of range (m) = manual integration

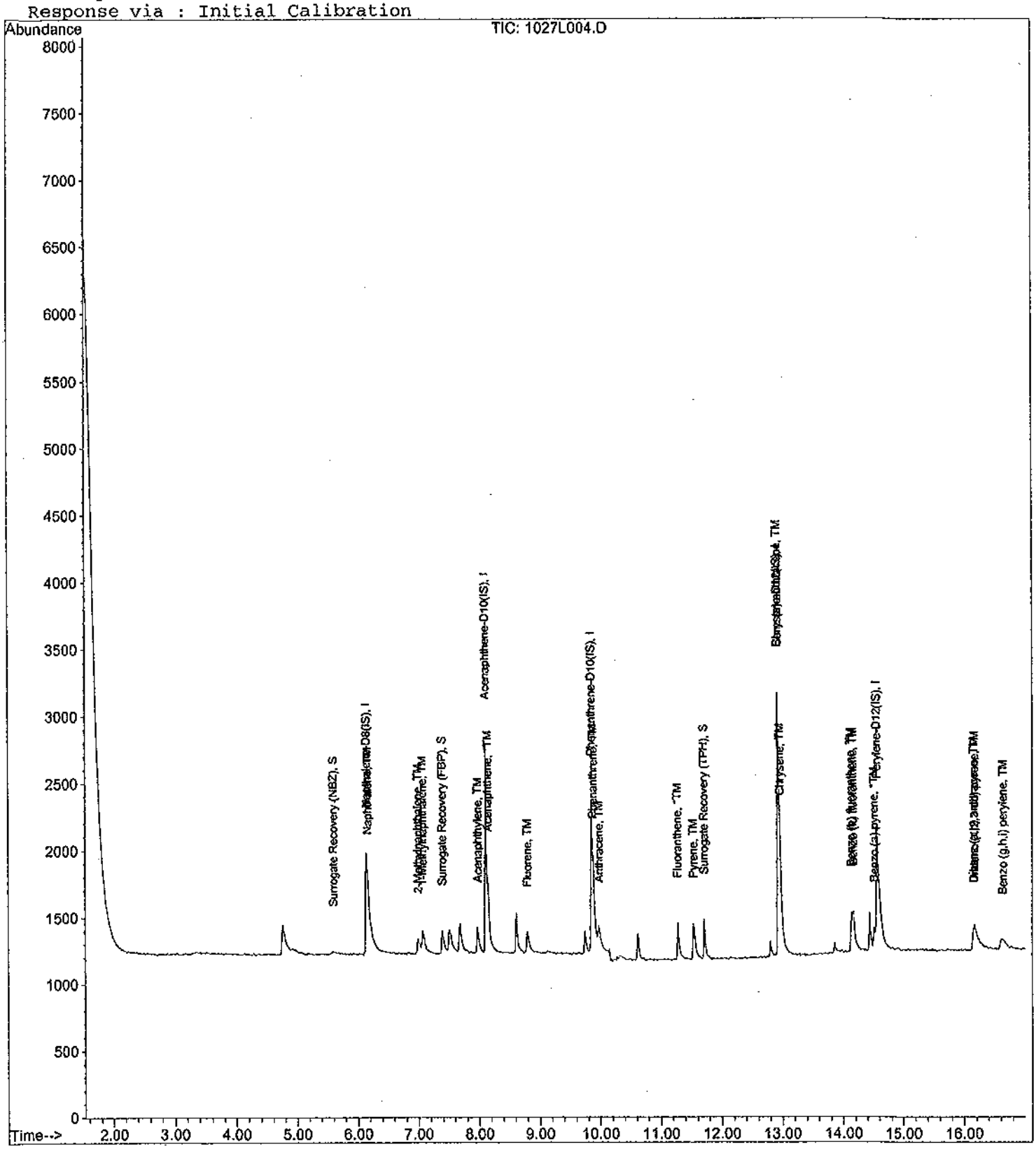
Quantitation Report

Data File : M:\LINUS\DATA\L111027\1027L004.D
Acq On : 27 Oct 11 19:38
Sample : 0.2ug/ml PAH
Misc :

Vial: 4
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:13 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1028L005.D
Acq On : 28 Oct 11 11:07
Sample : 0.5ug/ml PAH
Misc :

Vial: 5
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:12 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Sep 29 11:47:40 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.14	136	2409	2.50000 ppb	0.02
6) Acenaphthene-D10(IS)	8.12	164	1104	2.50000 ppb	-0.01
11) Phenanthrene-D10(IS)	9.87	188	1819	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.95	240	2477	2.50000 ppb	-0.01
21) Perylene-D12(IS)	14.57	264	2043	2.50000 ppb	-0.02
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.60	82	240	1.15802 ppb	0.25
Spiked Amount 2.000			Recovery = 57.900%		
7) Surrogate Recovery (FBP)	7.39	172	547	0.79241 ppb	0.01
Spiked Amount 2.000			Recovery = 39.600%		
17) Surrogate Recovery (TPH)	11.74	244	530	0.66674 ppb	-0.02
Spiked Amount 2.000			Recovery = 33.350%		
Target Compounds					Qvalue
3) Naphthalene	6.17	128	914	0.46769 ppb	98
4) 2-Methylnaphthalene	6.99	142	390	0.33945 ppb	96
5) 1-Methylnaphthalene	7.06	142	543	0.44086 ppb	95
8) Acenaphthylene	7.98	152	766	0.43771 ppb	99
9) Acenaphthene	8.16	154	445	0.43164 ppb	89
10) Fluorene	8.80	166	496	0.42124 ppb	99
12) Phenanthrene	9.90	178	642	0.38630 ppb	97
13) Anthracene	9.98	178	680	0.37229 ppb	95
14) Fluoranthene	11.29	202	1109	0.36672 ppb	96
16) Pyrene	11.55	202	1135	0.35574 ppb	97
18) Benz (a) anthracene	12.95	228	616	0.34309 ppb	98
19) Chrysene	12.98	228	1009	0.43128 ppb	99
20) Indeno (1,2,3-cd) pyrene	16.15	276	636	0.45186 ppb #	96
22) Benzo (b) fluoranthene	14.14	252	746	0.48527 ppb	98
23) Benzo (k) fluoranthene	14.17	252	769	0.37285 ppb	98
24) Benzo (a) pyrene	14.52	252	674	0.41516 ppb	94
25) Dibenz (a,h) anthracene	16.14	278	480	0.46345 ppb	95
26) Benzo (g,h,i) perylene	16.59	276	614	0.46797 ppb	92

(#) = qualifier out of range (m) = manual integration

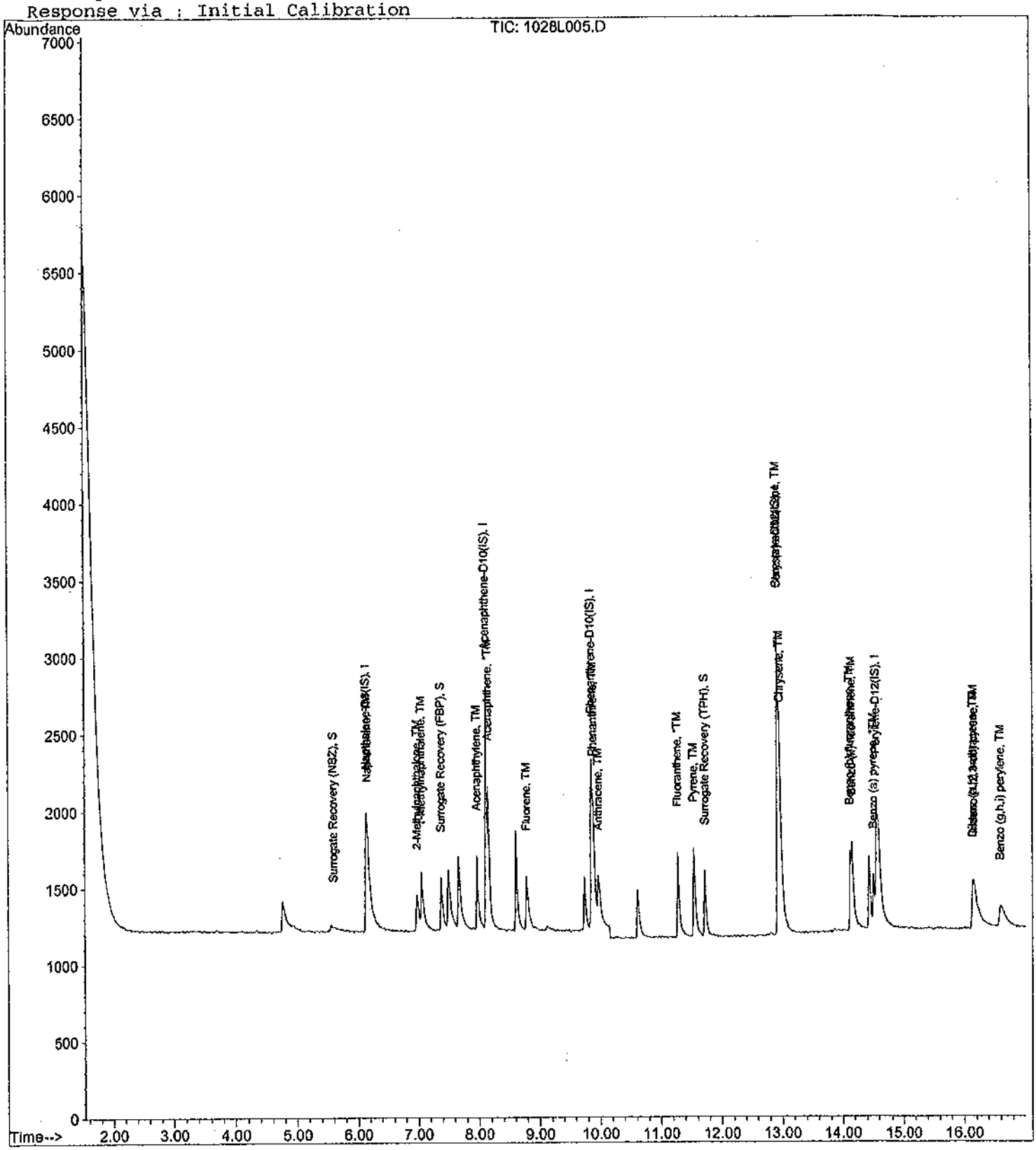
Quantitation Report

Data File : M:\LINUS\DATA\L111027\1028L005.D
Acq On : 28 Oct 11 11:07
Sample : 0.5ug/ml PAH
Misc :

Vial: 5
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:12 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1028L006.D Vial: 6
Acq On : 28 Oct 11 11:32 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 30 11:10 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Sun Oct 30 10:38:04 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	2381	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.12	164	1089	2.50000 ppb		-0.01
11) Phenanthrene-D10(IS)	9.86	188	1865	2.50000 ppb		-0.01
15) Chrysene-D12(IS)	12.95	240	2449	2.50000 ppb		-0.01
21) Perylene-D12(IS)	14.57	264	2032	2.50000 ppb		-0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.54	82	437	1.90266 ppb		0.00
Spiked Amount 2.000			Recovery = 95.150%			
7) Surrogate Recovery (FBP)	7.37	172	1135	1.66686 ppb		0.00
Spiked Amount 2.000			Recovery = 83.350%			
17) Surrogate Recovery (TPH)	11.72	244	1210	1.53959 ppb		-0.04
Spiked Amount 2.000			Recovery = 77.000%			
Target Compounds						Qvalue
3) Naphthalene	6.16	128	1881	0.97382 ppb		98
4) 2-Methylnaphthalene	6.96	142	916	0.80665 ppb		94
5) 1-Methylnaphthalene	7.05	142	1202	0.98738 ppb		89
8) Acenaphthylene	7.96	152	1632	0.94540 ppb		98
9) Acenaphthene	8.16	154	938	0.92237 ppb		91
10) Fluorene	8.79	166	1027	0.88422 ppb		98
12) Phenanthrene	9.90	178	1324	0.77703 ppb		99
13) Anthracene	9.97	178	1377	0.73529 ppb		98
14) Fluoranthene	11.28	202	2277	0.73437 ppb	#	94
16) Pyrene	11.54	202	2363	0.74909 ppb		97
18) Benz (a) anthracene	12.94	228	1529	0.86133 ppb		99
19) Chrysene	12.97	228	2071	0.89534 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.12	276	1501	1.07861 ppb	#	92
22) Benzo (b) fluoranthene	14.13	252	1509	0.98690 ppb	#	96
23) Benzo (k) fluoranthene	14.16	252	1507	0.73463 ppb		96
24) Benzo (a) pyrene	14.51	252	1370	0.84844 ppb		98
25) Dibenz (a,h) anthracene	16.12	278	1169	1.13481 ppb		97
26) Benzo (g,h,i) perylene	16.58	276	1332	1.02070 ppb		98

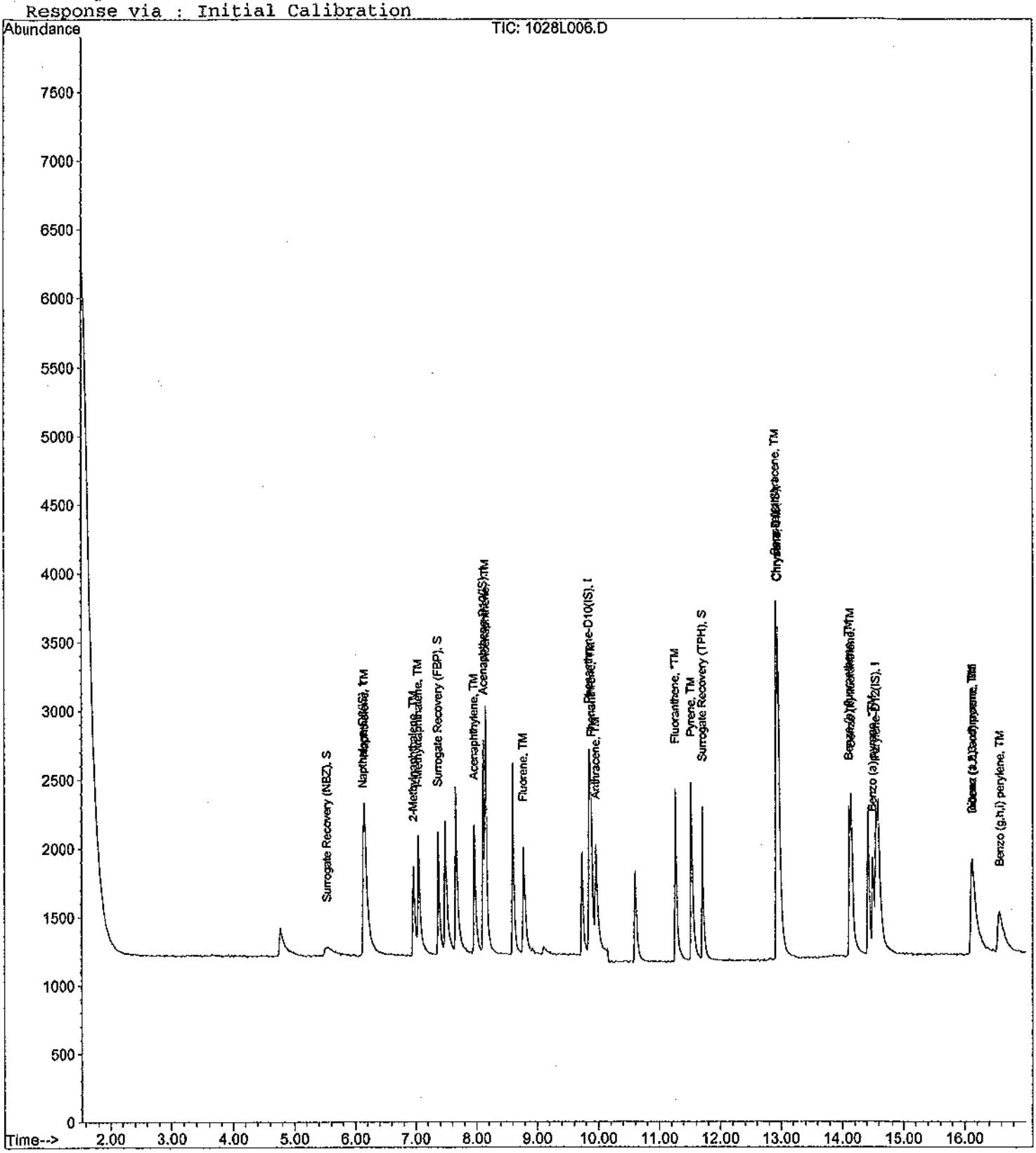
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1028L006.D Vial: 6
Acq On : 28 Oct 11 11:32 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 30 11:10 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1028L007.D Vial: 7
Acq On : 28 Oct 11 11:58 Operator: LF
Sample : 5.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 30 10:40 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Sun Oct 30 10:38:04 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2479	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.11	164	1083	2.50000 ppb		-0.02
11) Phenanthrene-D10(IS)	9.85	188	1851	2.50000 ppb		-0.02
15) Chrysene-D12(IS)	12.93	240	2378	2.50000 ppb		-0.04
21) Perylene-D12(IS)	14.56	264	1871	2.50000 ppb		-0.04
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	1947	7.24379 ppb		-0.12
Spiked Amount 2.000			Recovery	= 362.200%		
7) Surrogate Recovery (FBP)	7.35	172	4731	6.98644 ppb		-0.02
Spiked Amount 2.000			Recovery	= 349.300%		
17) Surrogate Recovery (TPH)	11.71	244	5216	6.83493 ppb		-0.05
Spiked Amount 2.000			Recovery	= 341.750%		
Target Compounds						Qvalue
3) Naphthalene	6.14	128	7358	3.65875 ppb		99
4) 2-Methylnaphthalene	6.93	142	4331	3.66320 ppb		98
5) 1-Methylnaphthalene	7.04	142	4683	3.69477 ppb		97
8) Acenaphthylene	7.95	152	6597	3.84274 ppb		100
9) Acenaphthene	8.15	154	3814	3.77124 ppb		92
10) Fluorene	8.76	166	4219	3.65257 ppb		99
12) Phenanthrene	9.87	178	5443	3.21854 ppb		98
13) Anthracene	9.94	178	5527	2.97363 ppb		99
14) Fluoranthene	11.26	202	9367	3.04387 ppb		98
16) Pyrene	11.51	202	9724	3.17462 ppb		97
18) Benz (a) anthracene	12.91	228	6027	3.49657 ppb		98
19) Chrysene	12.96	228	9422	4.19498 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.06	276	6554	4.85029 ppb		95
22) Benzo (b) fluoranthene	14.10	252	6693	4.75397 ppb	#	96
23) Benzo (k) fluoranthene	14.14	252	6995	3.70332 ppb		99
24) Benzo (a) pyrene	14.49	252	6259	4.20974 ppb		98
25) Dibenz (a,h) anthracene	16.08	278	5075	5.35048 ppb		97
26) Benzo (g,h,i) perylene	16.51	276	5423	4.51321 ppb		98

(#) = qualifier out of range (m) = manual integration

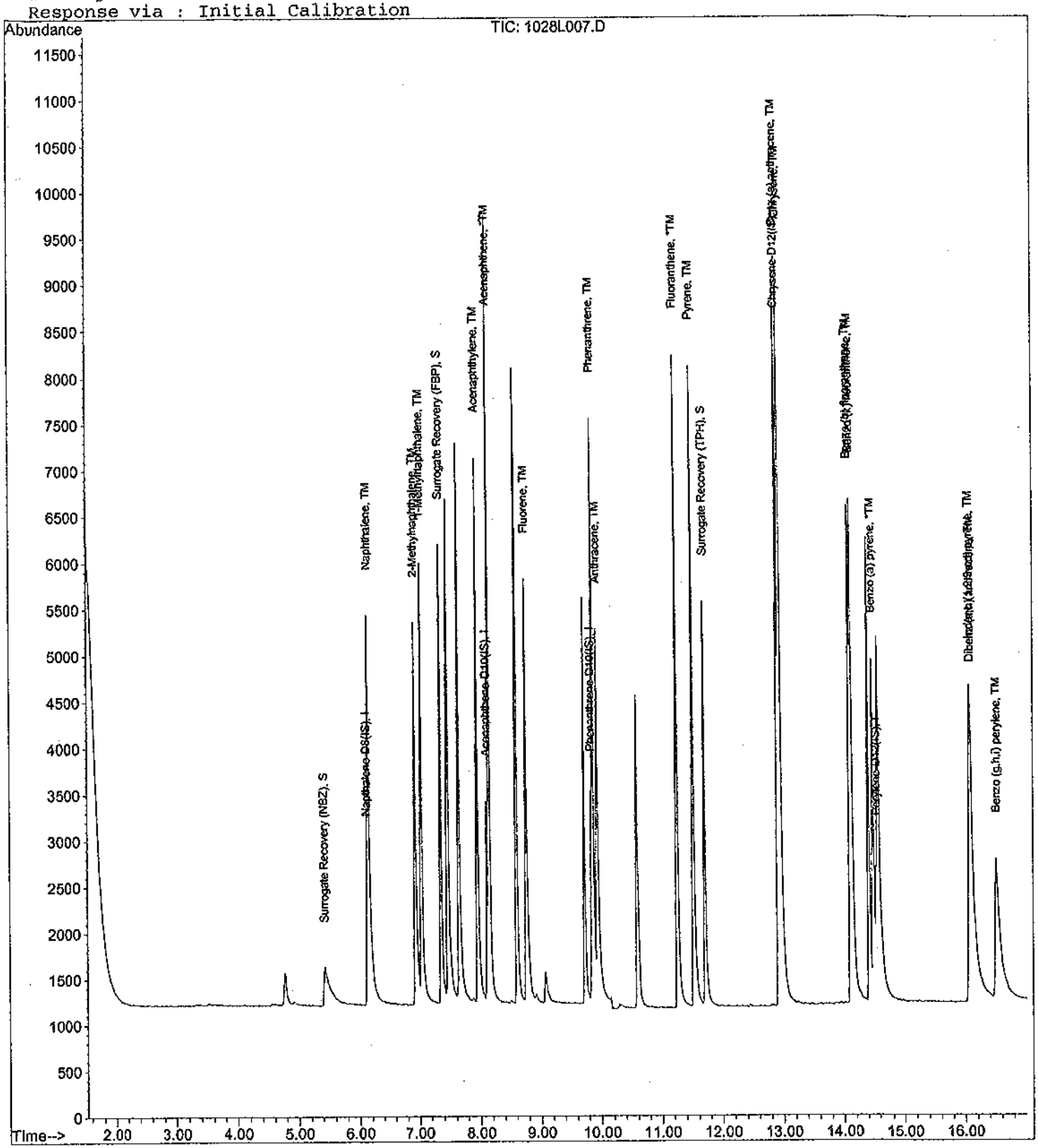
Quantitation Report

Data File : M:\LINUS\DATA\L111027\1028L007.D
Acq On : 28 Oct 11 11:58
Sample : 5.0ug/ml PAH
Misc :

Vial: 7
Operator: LP
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:40 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1028L008.D
Acq On : 28 Oct 11 12:23
Sample : 10ug/ml PAH
Misc :

Vial: 8
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:41 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Sun Oct 30 10:38:04 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2419	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.11	164	1154	2.50000 ppb		-0.02
11) Phenanthrene-D10(IS)	9.85	188	1800	2.50000 ppb		-0.02
15) Chrysene-D12(IS)	12.91	240	2580	2.50000 ppb		-0.05
21) Perylene-D12(IS)	14.55	264	2113	2.50000 ppb		-0.05
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	3973	14.84926 ppb		-0.16
Spiked Amount 2.000			Recovery = 742.450%			
7) Surrogate Recovery (FBP)	7.35	172	9747	13.50818 ppb		-0.02
Spiked Amount 2.000			Recovery = 675.400%			
17) Surrogate Recovery (TPH)	11.70	244	11014	13.30251 ppb		-0.06
Spiked Amount 2.000			Recovery = 665.150%			
Target Compounds						Qvalue
3) Naphthalene	6.13	128	16688	8.50390 ppb		99
4) 2-Methylnaphthalene	6.92	142	9930	8.60721 ppb		100
5) 1-Methylnaphthalene	7.02	142	10317	8.34175 ppb		92
8) Acenaphthylene	7.95	152	15071	8.23870 ppb		99
9) Acenaphthene	8.15	154	8403	7.79759 ppb		97
10) Fluorene	8.75	166	9496	7.71528 ppb		98
12) Phenanthrene	9.87	178	12375	7.52487 ppb		99
13) Anthracene	9.93	178	12631	6.98825 ppb		99
14) Fluoranthene	11.25	202	21698	7.25069 ppb	#	93
16) Pyrene	11.50	202	22373	6.73230 ppb	#	85
18) Benz (a) anthracene	12.91	228	14154	7.56854 ppb		100
19) Chrysene	12.95	228	21503	8.82425 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.03	276	15698	10.70773 ppb	#	96
22) Benzo (b) fluoranthene	14.09	252	15772	9.91966 ppb		96
23) Benzo (k) fluoranthene	14.13	252	16351	7.66517 ppb		98
24) Benzo (a) pyrene	14.48	252	14853	8.84584 ppb		98
25) Dibenz (a,h) anthracene	16.05	278	12481	11.65147 ppb		96
26) Benzo (g,h,i) perylene	16.47	276	13167	9.70302 ppb		97

(#) = qualifier out of range (m) = manual integration

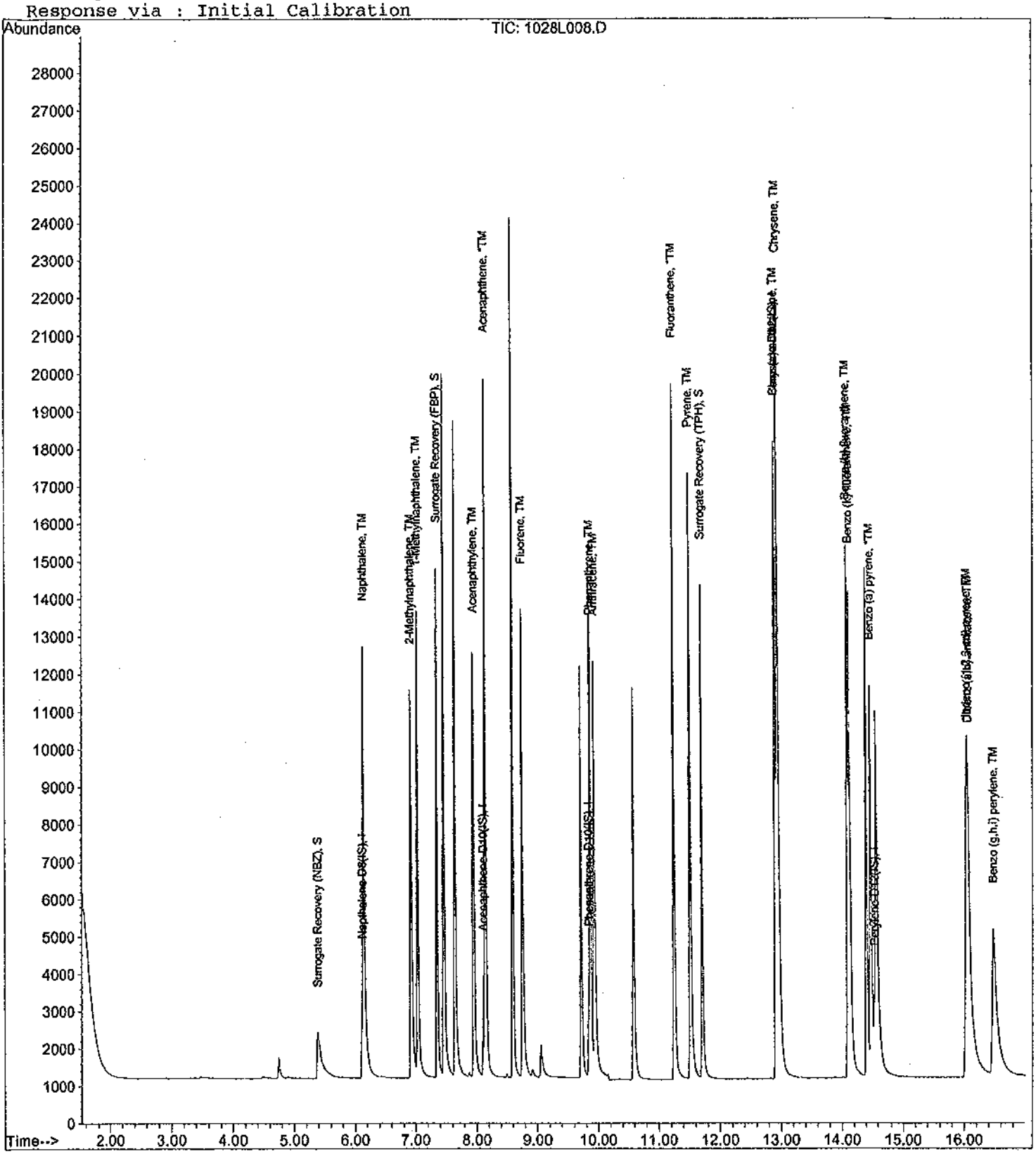
Quantitation Report

Data File : M:\LINUS\DATA\L111027\1028L008.D
Acq On : 28 Oct 11 12:23
Sample : 10ug/ml PAH
Misc :

Vial: 8
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:41 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1028L009.D
Acq On : 28 Oct 11 12:49
Sample : 50ug/ml PAH
Misc :

Vial: 9
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:41 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Sun Oct 30 10:41:31 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.11	136	2170	2.50000 ppb		-0.01
6) Acenaphthene-D10(IS)	8.11	164	955	2.50000 ppb		-0.02
11) Phenanthrene-D10(IS)	9.84	188	1764	2.50000 ppb		-0.04
15) Chrysene-D12(IS)	12.91	240	2325	2.50000 ppb		-0.05
21) Perylene-D12(IS)	14.54	264	1951	2.50000 ppb		-0.06
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.34	82	19569	80.30257 ppb		0.00
Spiked Amount 2.000			Recovery	= 4015.150%		
7) Surrogate Recovery (FBP)	7.34	172	37203	62.30259 ppb		-0.04
Spiked Amount 2.000			Recovery	= 3115.150%		
17) Surrogate Recovery (TPH)	11.70	244	43552	58.37048 ppb		-0.06
Spiked Amount 2.000			Recovery	= 2918.500%		
Target Compounds						Qvalue
3) Naphthalene	6.12	128	64981	36.91273 ppb		98
4) 2-Methylnaphthalene	6.92	142	39285	37.95912 ppb		91
5) 1-Methylnaphthalene	7.02	142	37731	34.00777 ppb		98
8) Acenaphthylene	7.94	152	59152	39.07406 ppb		100
9) Acenaphthene	8.13	154	32228	36.13782 ppb		90
10) Fluorene	8.75	166	36584	35.91740 ppb		95
12) Phenanthrene	9.86	178	48574	30.13920 ppb		99
13) Anthracene	9.92	178	49934	28.19038 ppb		99
14) Fluoranthene	11.23	202	84927	28.95874 ppb	#	86
16) Pyrene	11.50	202	87985	29.37950 ppb		93
18) Benz (a) anthracene	12.90	228	63776	37.84310 ppb		99
19) Chrysene	12.94	228	76944	35.03889 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.01	276	67886	51.38427 ppb		97
22) Benzo (b) fluoranthene	14.09	252	68863	46.90706 ppb	#	96
23) Benzo (k) fluoranthene	14.12	252	60905	30.92236 ppb		100
24) Benzo (a) pyrene	14.45	252	61841	39.88811 ppb	#	94
25) Dibenz (a,h) anthracene	16.02	278	54590	55.19334 ppb		99
26) Benzo (g,h,i) perylene	16.44	276	56362	44.98303 ppb		98

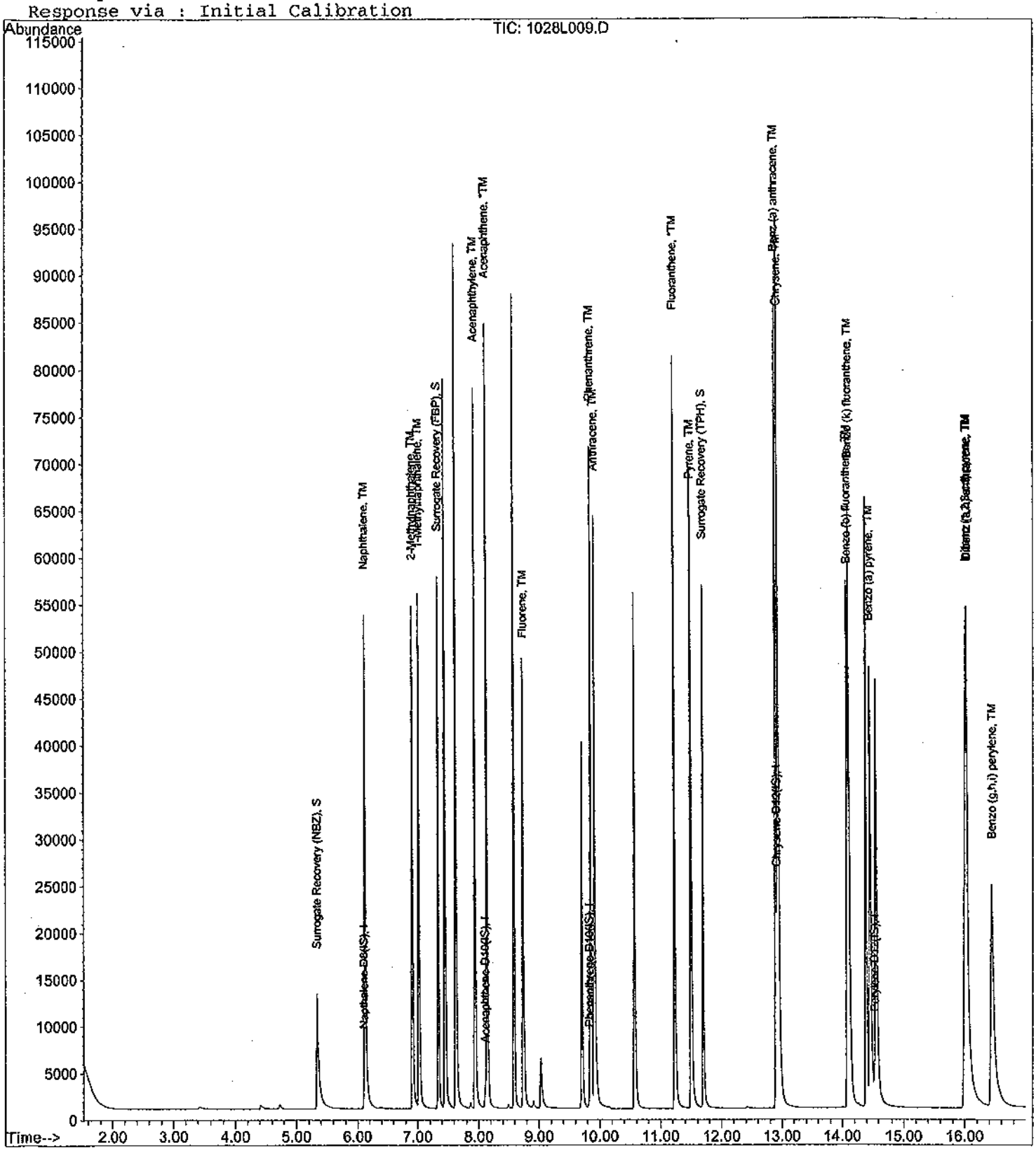
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1028L009.D Vial: 9
Acq On : 28 Oct 11 12:49 Operator: LF
Sample : 50ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 30 10:41 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1028L010.D
Acq On : 28 Oct 11 13:14
Sample : 100ug/ml PAH
Misc :

Vial: 10
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:42 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Sun Oct 30 10:41:31 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.11	136	2028	2.50000 ppb		-0.01
6) Acenaphthene-D10(IS)	8.11	164	919	2.50000 ppb		-0.02
11) Phenanthrene-D10(IS)	9.84	188	1786	2.50000 ppb		-0.04
15) Chrysene-D12(IS)	12.91	240	2218	2.50000 ppb		-0.05
21) Perylene-D12(IS)	14.54	264	1949	2.50000 ppb		-0.06
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.32	82	39811	174.48341 ppb		-0.01
Spiked Amount 2.000			Recovery	= 8724.150%		
7) Surrogate Recovery (FBP)	7.34	172	68503	119.21355 ppb		-0.04
Spiked Amount 2.000			Recovery	= 5960.700%		
17) Surrogate Recovery (TPH)	11.70	244	80239	112.72808 ppb		-0.06
Spiked Amount 2.000			Recovery	= 5636.400%		
Target Compounds						Qvalue
3) Naphthalene	6.12	128	118023	71.73782 ppb		98
4) 2-Methylnaphthalene	6.92	142	72350	74.80311 ppb		91
5) 1-Methylnaphthalene	7.02	142	67525	65.12327 ppb		99
8) Acenaphthylene	7.94	152	108807	74.69023 ppb		99
9) Acenaphthene	8.13	154	58631	68.31936 ppb		89
10) Fluorene	8.75	166	64716	66.02573 ppb		95
12) Phenanthrene	9.86	178	89156	54.63809 ppb		98
13) Anthracene	9.92	178	91266	50.88980 ppb		98
14) Fluoranthene	11.23	202	154470	52.02296 ppb	#	84
16) Pyrene	11.50	202	164055	57.42311 ppb	#	90
18) Benz (a) anthracene	12.90	228	140011	87.08694 ppb		99
19) Chrysene	12.94	228	127613	60.91607 ppb	#	95
20) Indeno (1,2,3-cd) pyrene	16.02	276	133093	105.60065 ppb	#	87
22) Benzo (b) fluoranthene	14.09	252	126697	86.39011 ppb		96
23) Benzo (k) fluoranthene	14.12	252	120651	61.31914 ppb	#	94
24) Benzo (a) pyrene	14.47	252	119503	77.15982 ppb		95
25) Dibenz (a,h) anthracene	16.03	278	107509	108.80876 ppb		91
26) Benzo (g,h,i) perylene	16.44	276	112699	90.03841 ppb		99

(#) = qualifier out of range (m) = manual integration

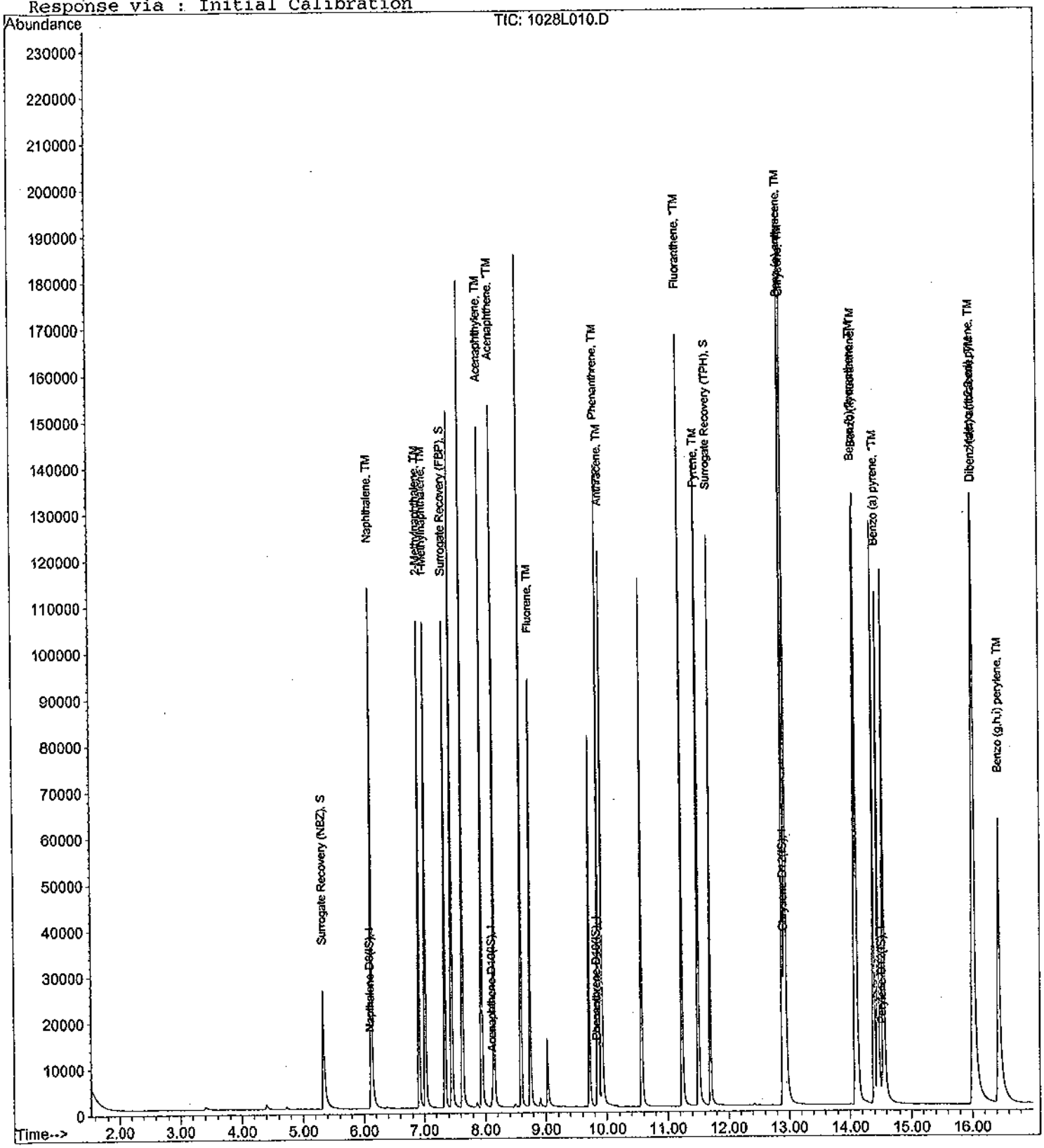
Quantitation Report

Data File : M:\LINUS\DATA\L111027\1028L010.D
Acq On : 28 Oct 11 13:14
Sample : 100ug/ml PAH
Misc :

Vial: 10
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:42 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 66686
Date Analyzed: 10/28/11
Instrument: Linus
Initial Cal. Date: 10/27/11
Data File: 1028L011.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	1.742	1.546	11	TM	
3	TM	2-Methylnaphthalene	0.8931	0.8782	1.7	TM	
4	TM	1-Methylnaphthalene	1.031	1.007	2.4	TM	
5	I	Acenaphthene-D10(IS)	ISTD			I	
6	TM	Acenaphthylene	3.327	3.132	5.8	TM	
7	*TM	Acenaphthene	1.904	1.812	4.8	*TM	
8	TM	Fluorene	2.083	1.993	4.3	TM	
9	I	Phenanthrene-D10(IS)	ISTD			I	
10	TM	Phenanthrene	1.609	1.555	3.4	TM	
11	TM	Anthracene	1.634	1.624	0.64	TM	
12	*TM	Fluoranthene	2.792	2.916	4.4	*TM	
13	I	Chrysene-D12(IS)	ISTD			I	
14	TM	Pyrene	2.200	2.429	10	TM	
15	TM	Benz (a) anthracene	1.449	1.392	3.9	TM	
16	TM	Chrysene	1.939	2.190	13	TM	
17	TM	Indeno (1,2,3-cd) pyrene	1.502	1.468	2.3	TM	
18	I	Perylene-D12(IS)	ISTD			I	
19	TM	Benzo (b) fluoranthene	1.761	1.686	4.3	TM	
20	TM	Benzo (k) fluoranthene	1.823	2.176	19	TM	
21	*TM	Benzo (a) pyrene	1.723	1.689	1.9	*TM	
22	TM	Dibenz (a,h) anthracene	1.447	1.354	6.4	TM	
23	TM	Benzo (g,h,i) perylene	1.525	1.483	2.8	TM	
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			5.7		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1028L011.D
Acq On : 28 Oct 11 13:40
Sample : 5.0ug/ml SS PAH 10-27-11
Misc :

Vial: 11
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:17 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Sun Oct 30 11:15:17 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	2295	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.11	164	1033	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.85	188	1773	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.93	240	2205	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	1840	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.00000 ppb		
Spiked Amount 2.000			Recovery =	0.000%		
7) Surrogate Recovery (FBP)	0.00	172	0d	0.00000 ppb		
Spiked Amount 2.000			Recovery =	0.000%		
17) Surrogate Recovery (TPH)	0.00	244	0d	0.00000 ppb		
Spiked Amount 2.000			Recovery =	0.000%		
Target Compounds						Qvalue
3) Naphthalene	6.14	128	7095	4.43732 ppb		99
4) 2-Methylnaphthalene	6.93	142	4031	4.91655 ppb		99
5) 1-Methylnaphthalene	7.04	142	4620	4.88168 ppb		94
8) Acenaphthylene	7.95	152	6471	4.70758 ppb		99
9) Acenaphthene	8.15	154	3744	4.75904 ppb		91
10) Fluorene	8.76	166	4117	4.78272 ppb		99
12) Phenanthrene	9.87	178	5514	4.83130 ppb		99
13) Anthracene	9.94	178	5757	4.96794 ppb		98
14) Fluoranthene	11.26	202	10339	5.22192 ppb		93
16) Pyrene	11.51	202	10711	5.51952 ppb	#	91
18) Benz (a) anthracene	12.93	228	6140	4.80346 ppb		99
19) Chrysene	12.96	228	9659	5.64891 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.06	276	6475	4.88617 ppb	#	91
22) Benzo (b) fluoranthene	14.12	252	6204	4.78607 ppb		99
23) Benzo (k) fluoranthene	14.14	252	8006	5.96784 ppb	#	65
24) Benzo (a) pyrene	14.49	252	6217	4.90268 ppb		97
25) Dibenz (a,h) anthracene	16.08	278	4984	4.68078 ppb		96
26) Benzo (g,h,i) perylene	16.52	276	5458	4.86160 ppb		99

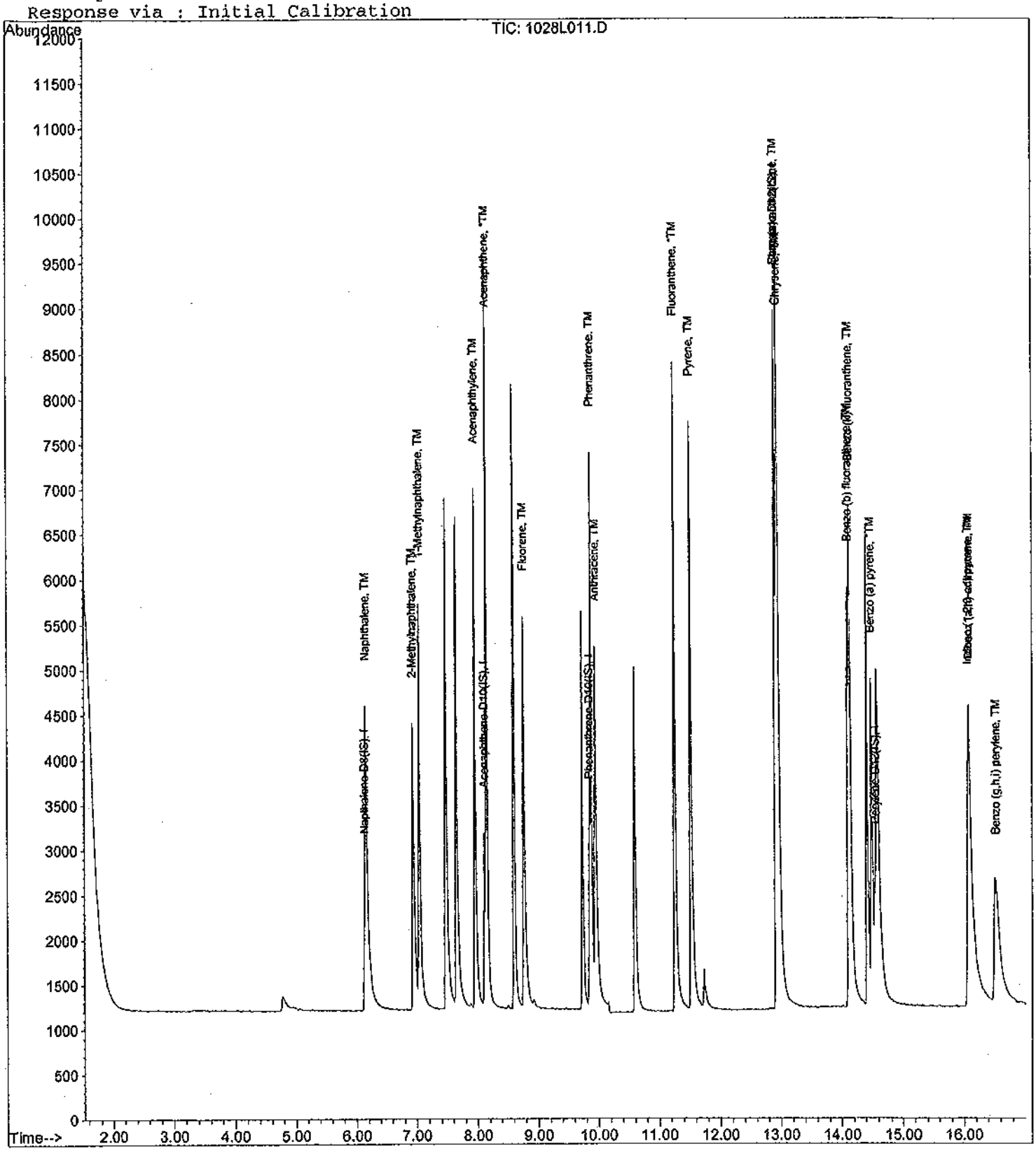
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1028L011.D Vial: 11
Acq On : 28 Oct 11 13:40 Operator: LF
Sample : 5.0ug/ml SS PAH 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Oct 30 11:17 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 66186
Date Analyzed: 11/10/11
Instrument: Linus
Initial Cal. Date: 10/27/11
Data File: 1110L002.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	S	Surrogate Recovery (NBZ)	0.4477	0.4015	10	S	
3	TM	Naphthalene	1.742	1.470	16	TM	
4	TM	2-Methylnaphthalene	0.8931	0.8840	1.0	TM	
5	TM	1-Methylnaphthalene	1.031	0.9079	12	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	S	Surrogate Recovery (FBP)	2.229	2.071	7.1	S	
8	TM	Acenaphthylene	3.327	3.238	2.7	TM	
9	*TM	Acenaphthene	1.904	1.746	8.3	*TM	
10	TM	Fluorene	2.083	2.044	1.9	TM	
11	I	Phenanthrene-D10(IS)	ISTD			I	
12	TM	Phenanthrene	1.609	1.508	6.3	TM	
13	TM	Anthracene	1.634	1.617	1.0	TM	
14	*TM	Fluoranthene	2.792	2.787	0.19	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	2.200	2.083	5.3	TM	
17	S	Surrogate Recovery (TPH)	1.077	1.022	5.0	S	
18	TM	Benz (a) anthracene	1.449	1.573	8.6	TM	
19	TM	Chrysene	1.939	1.844	4.9	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.502	1.639	9.1	TM	
21	I	Perylene-D12(IS)	ISTD			I	
22	TM	Benzo (b) fluoranthene	1.761	1.584	10	TM	
23	TM	Benzo (k) fluoranthene	1.823	2.060	13	TM	
24	*TM	Benzo (a) pyrene	1.723	1.711	0.72	*TM	
25	TM	Dibenz (a,h) anthracene	1.447	1.553	7.4	TM	
26	TM	Benzo (g,h,i) perylene	1.525	1.540	0.94	TM	
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			6.3		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1110L002.D Vial: 2
Acq On : 10 Nov 11 19:22 Operator: LF
Sample : 5.0ug/ml PAH 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Nov 11 15:32 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Nov 09 14:09:04 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2263	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.12	164	971	2.50000 ppb	0.01
11) Phenanthrene-D10(IS)	9.86	188	1712	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.94	240	2411	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.58	264	2087	2.50000 ppb	0.02
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.40	82	1817	4.48316 ppb	0.00
Spiked Amount 2.000			Recovery	= 224.150%	
7) Surrogate Recovery (FBP)	7.35	172	4021	4.64528 ppb	0.00
Spiked Amount 2.000			Recovery	= 232.250%	
17) Surrogate Recovery (TPH)	11.72	244	4930	4.74872 ppb	0.01
Spiked Amount 2.000			Recovery	= 237.450%	
Target Compounds					Qvalue
3) Naphthalene	6.14	128	6653	4.21973 ppb	99
4) 2-Methylnaphthalene	6.93	142	4001	4.94897 ppb	87
5) 1-Methylnaphthalene	7.04	142	4109	4.40313 ppb	88
8) Acenaphthylene	7.95	152	6288	4.86653 ppb	99
9) Acenaphthene	8.16	154	3390	4.58421 ppb	98
10) Fluorene	8.76	166	3969	4.90520 ppb	100
12) Phenanthrene	9.88	178	5165	4.68676 ppb	100
13) Anthracene	9.94	178	5537	4.94834 ppb	99
14) Fluoranthene	11.27	202	9541	4.99057 ppb	99
16) Pyrene	11.53	202	10042	4.73263 ppb	98
18) Benz (a) anthracene	12.93	228	7587	5.42835 ppb	96
19) Chrysene	12.97	228	8894	4.75709 ppb	98
20) Indeno (1,2,3-cd) pyrene	16.11	276	7902	5.45352 ppb	98
22) Benzo (b) fluoranthene	14.13	252	6610	4.49577 ppb	93
23) Benzo (k) fluoranthene	14.16	252	8599	5.65126 ppb	94
24) Benzo (a) pyrene	14.51	252	7140	4.96417 ppb	97
25) Dibenz (a,h) anthracene	16.11	278	6483	5.36798 ppb	94
26) Benzo (g,h,i) perylene	16.56	276	6427	5.04719 ppb	98

(#) = qualifier out of range (m) = manual integration

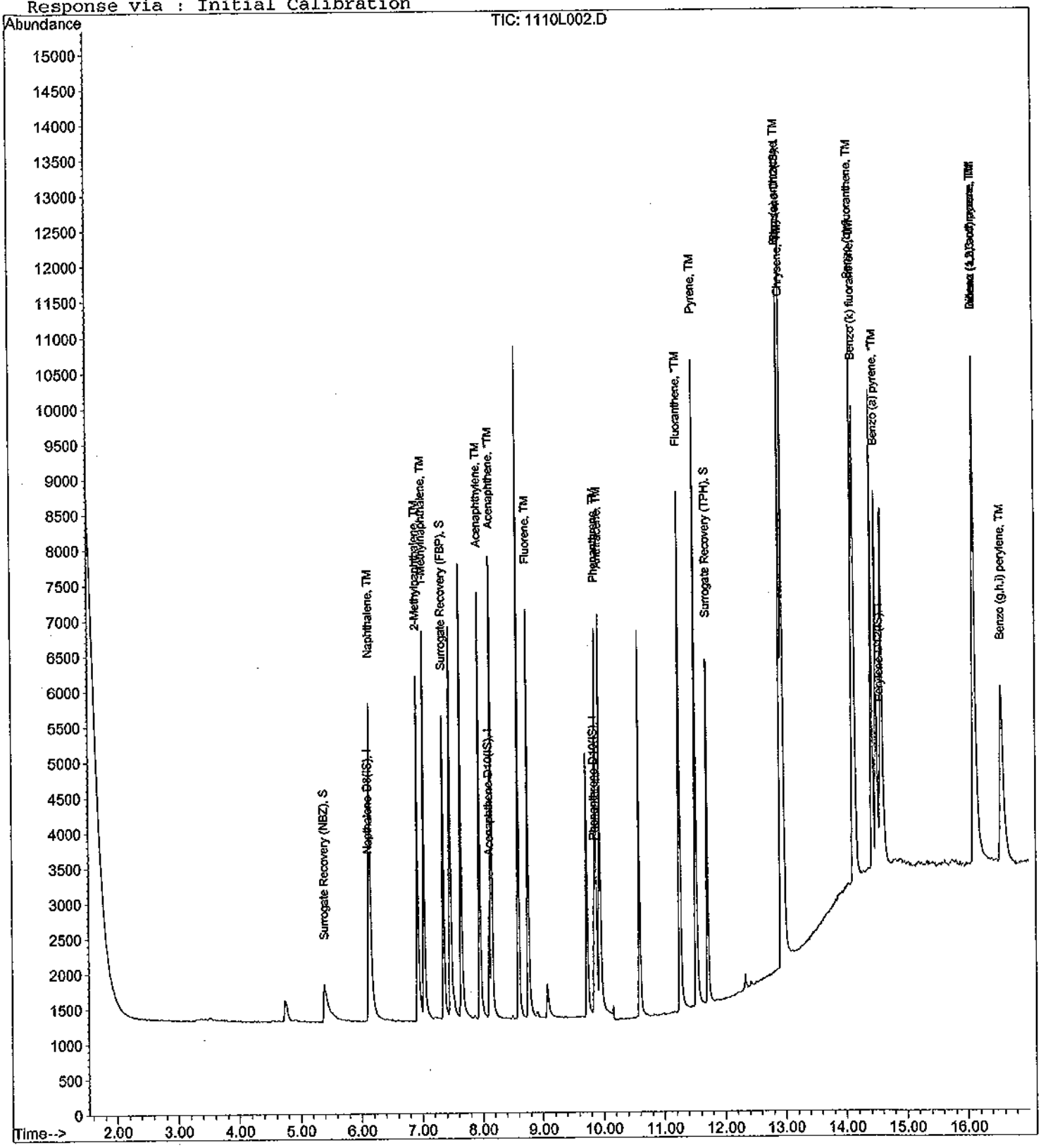
Quantitation Report

Data File : M:\LINUS\DATA\L111027\1110L002.D
Acq On : 10 Nov 11 19:22
Sample : 5.0ug/ml PAH 10-27-11
Misc :

Vial: 2
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 11 15:32 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 11 16:40:11 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

APPL, INC.

Method Blank
EPA 8270D SIM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **111108W-50005 - 162179**
Batch ID: #SIMHC-111108A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	SURROGATE: 2-FLUORBIPHENY	55.5	50-110			%	11/08/11	11/10/11
BLANK	SURROGATE: NITROBENZENE-	54.3	40-110			%	11/08/11	11/10/11
BLANK	SURROGATE: TERPHENYL-D14 (	118	50-135			%	11/08/11	11/10/11

Quant Method:SIM2.M
Run #:1110L003
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 12/09/11 6:52:19 PM

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1110L003.D Vial: 3
Acq On : 10 Nov 11 19:47 Operator: LF
Sample : 111108A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Nov 16 15:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Nov 09 14:09:04 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2288	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.12	164	1021	2.50000 ppb	0.01
11) Phenanthrene-D10(IS)	9.86	188	1840	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.95	240	2623	2.50000 ppb	0.02
21) Perylene-D12(IS)	14.59	264	2235	2.50000 ppb	0.04
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.42	82	445	1.08597 ppb	0.02
Spiked Amount 2.000			Recovery	= 54.300%	
7) Surrogate Recovery (FBP)	7.36	172	1010	1.10967 ppb	0.01
Spiked Amount 2.000			Recovery	= 55.500%	
17) Surrogate Recovery (TPH)	11.72	244	2658	2.35334 ppb	0.01
Spiked Amount 2.000			Recovery	= 117.650%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

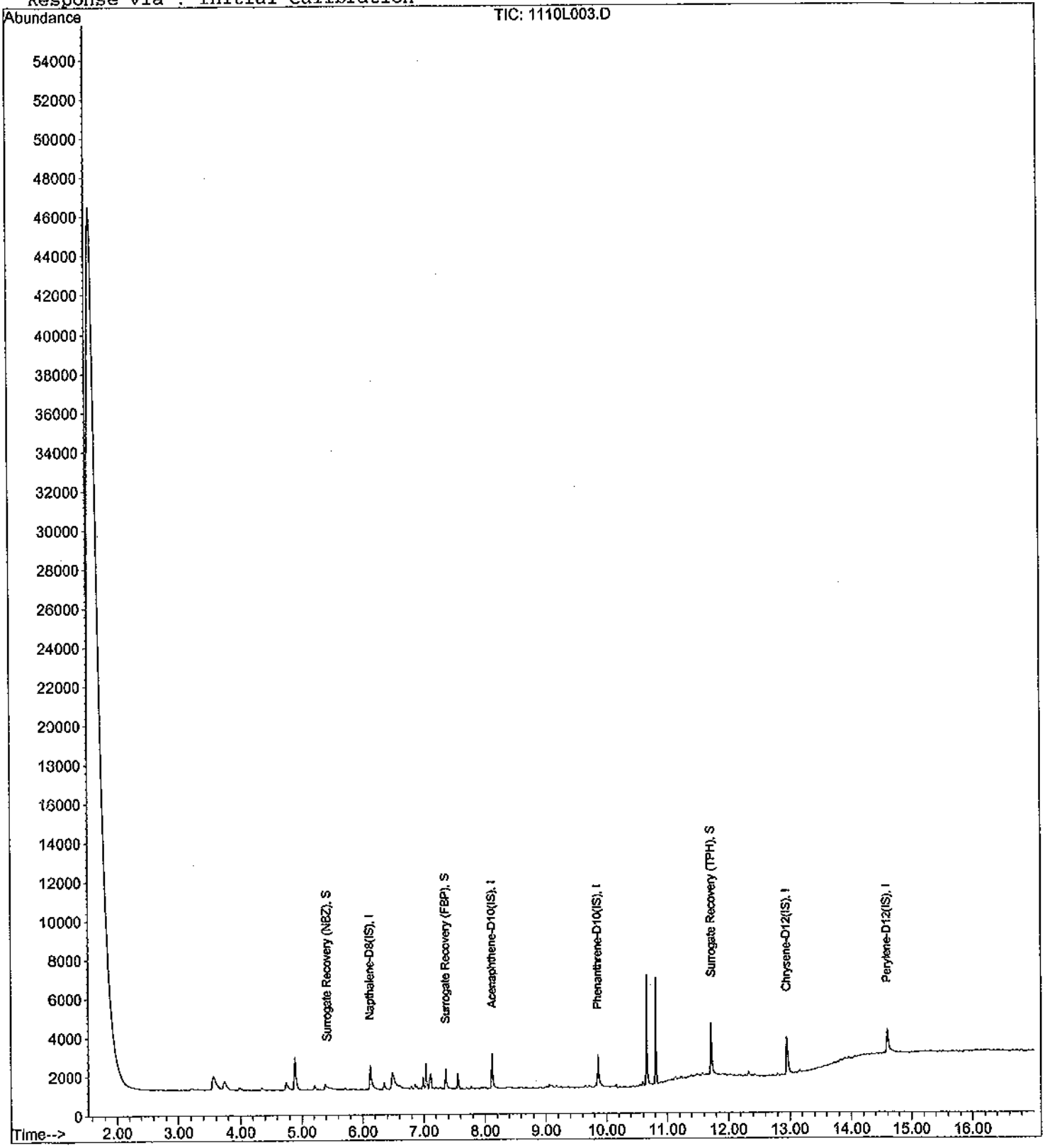
Quantitation Report

Data File : M:\LINUS\DATA\L111027\1110L003.D
Acq On : 10 Nov 11 19:47
Sample : 111108A BLK 1/1000
Misc :

Vial: 3
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 16 15:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 11 16:40:11 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: **111108W-50005 LCS - 162179**
Batch ID: #SIMHC-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1-METHYLNAPHTHALENE	4.00	2.49	62.3	45-105
2-METHYLNAPHTHALENE	4.00	2.53	63.2	45-105
ACENAPHTHENE	4.00	2.74	68.5	45-110
ACENAPHTHYLENE	4.00	2.50	62.5	50-105
ANTHRACENE	4.00	2.86	71.5	55-110
BENZO(A)ANTHRACENE	4.00	3.45	86.3	55-110
BENZO(A)PYRENE	4.00	2.73	68.3	55-110
BENZO(B)FLUORANTHENE	4.00	3.28	82.0	45-120
BENZO(GHI)PERYLENE	4.00	2.98	74.5	40-125
BENZO(K)FLUORANTHENE	4.00	2.78	69.5	45-125
CHRYSENE	4.00	2.59	64.8	55-110
DIBENZ(A,H)ANTHRACENE	4.00	3.11	77.8	40-125
FLUORANTHENE	4.00	3.05	76.3	55-115
FLUORENE	4.00	2.69	67.3	50-110
INDENO(1,2,3-CD)PYRENE	4.00	3.14	78.5	45-125
NAPHTHALENE	4.00	2.22	55.5	40-100
PHENANTHRENE	4.00	2.60	65.0	50-115
PYRENE	4.00	2.73	68.3	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.05	52.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.31	65.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	2.43	122	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	11/08/11
Analysis Date :	11/10/11
Instrument :	Linus
Run :	1110L004
Initials :	LF

Printed: 12/09/11 6:52:20 PM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1110L004.D
Acq On : 10 Nov 11 20:12
Sample : 111108A LCS-1 1/1000
Misc :

Vial: 4
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 16 15:48 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed Nov 09 14:09:04 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2376	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.12	164	1055	2.50000 ppb		0.01
11) Phenanthrene-D10(IS)	9.86	188	1891	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.95	240	2640	2.50000 ppb		0.02
21) Perylene-D12(IS)	14.58	264	2275	2.50000 ppb		0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	558	1.31130 ppb		0.02
Spiked Amount 2.000			Recovery = 65.550%			
7) Surrogate Recovery (FBP)	7.36	172	984	1.04626 ppb		0.01
Spiked Amount 2.000			Recovery = 52.300%			
17) Surrogate Recovery (TPH)	11.72	244	2766	2.43319 ppb		0.01
Spiked Amount 2.000			Recovery = 121.650%			
Target Compounds						Qvalue
3) Naphthalene	6.14	128	3669	2.21642 ppb		99
4) 2-Methylnaphthalene	6.93	142	2150	2.53293 ppb		88
5) 1-Methylnaphthalene	7.04	142	2442	2.49235 ppb		89
8) Acenaphthylene	7.95	152	3516	2.50451 ppb		97
9) Acenaphthene	8.16	154	2201	2.73938 ppb		98
10) Fluorene	8.76	166	2362	2.68672 ppb		100
12) Phenanthrene	9.88	178	3163	2.59845 ppb		100
13) Anthracene	9.94	178	3529	2.85528 ppb		97
14) Fluoranthene	11.27	202	6451	3.05489 ppb		100
16) Pyrene	11.53	202	6336	2.72704 ppb		94
18) Benz (a) anthracene	12.94	228	5275	3.44678 ppb		99
19) Chrysene	12.97	228	5311	2.59426 ppb		98
20) Indeno (1,2,3-cd) pyrene	16.12	276	4985	3.14194 ppb	#	97
22) Benzo (b) fluoranthene	14.13	252	5262	3.28318 ppb		96
23) Benzo (k) fluoranthene	14.16	252	4619	2.78475 ppb		95
24) Benzo (a) pyrene	14.52	252	4276	2.72726 ppb		98
25) Dibenz (a,h) anthracene	16.12	278	4100	3.11430 ppb		95
26) Benzo (g,h,i) perylene	16.58	276	4130	2.97531 ppb		97

$\frac{3669 \times 2.5}{1.742 \times 2376} = 2.22$ VF 12/11/11

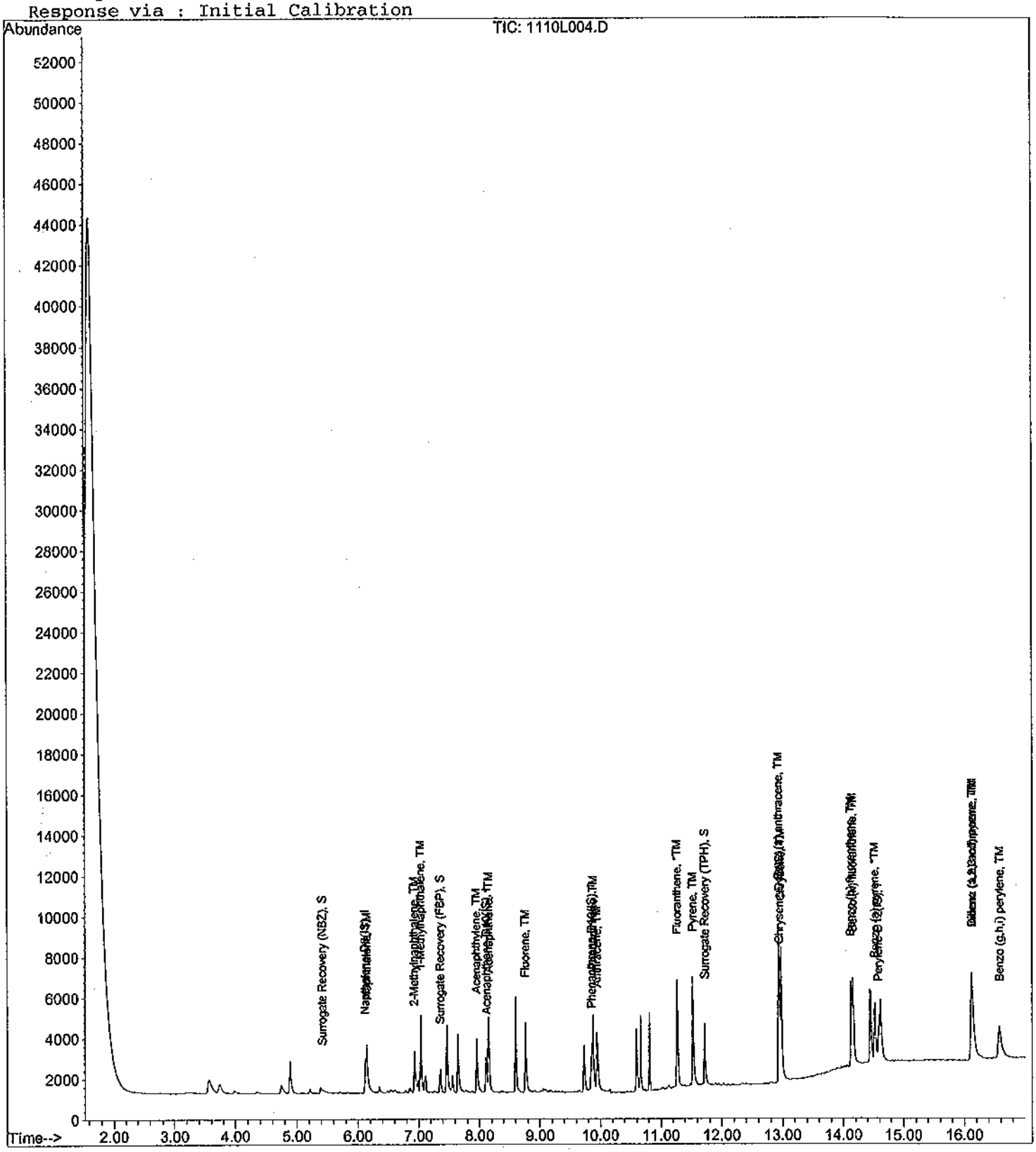
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1110L004.D Vial: 4
Acq On : 10 Nov 11 20:12 Operator: LF
Sample : 111108A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Nov 16 15:48 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 11 16:40:11 2011
Response via : Initial Calibration

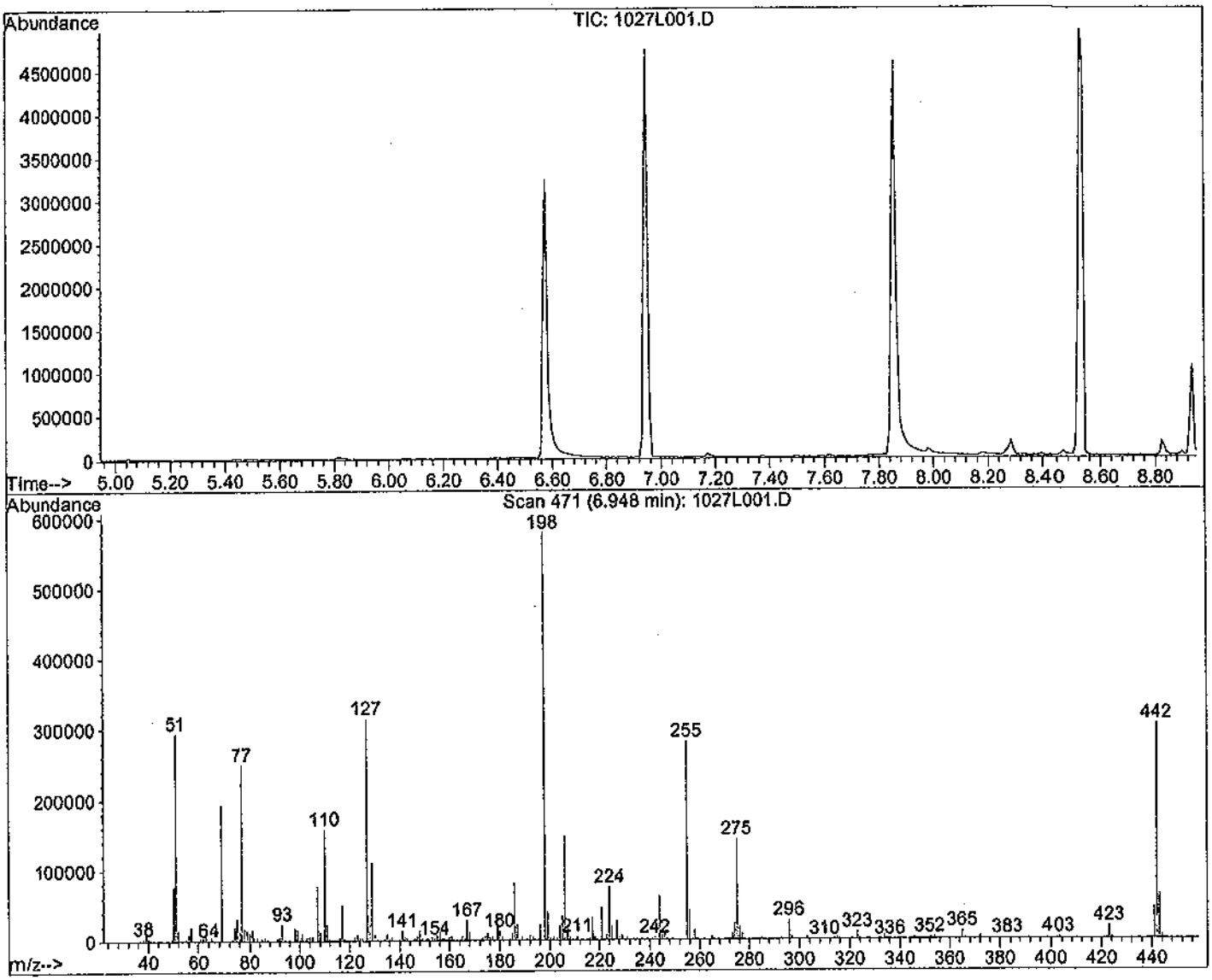


DFTPP

Data File : M:\LINUS\DATA\L111027\1027L001.D
Acq On : 27 Oct 11 18:29
Sample : SVTUNE 10-27-11
Misc :

Vial: 1
Operator: LF
Inst : Linus
Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C



Spectrum Information: Scan 471

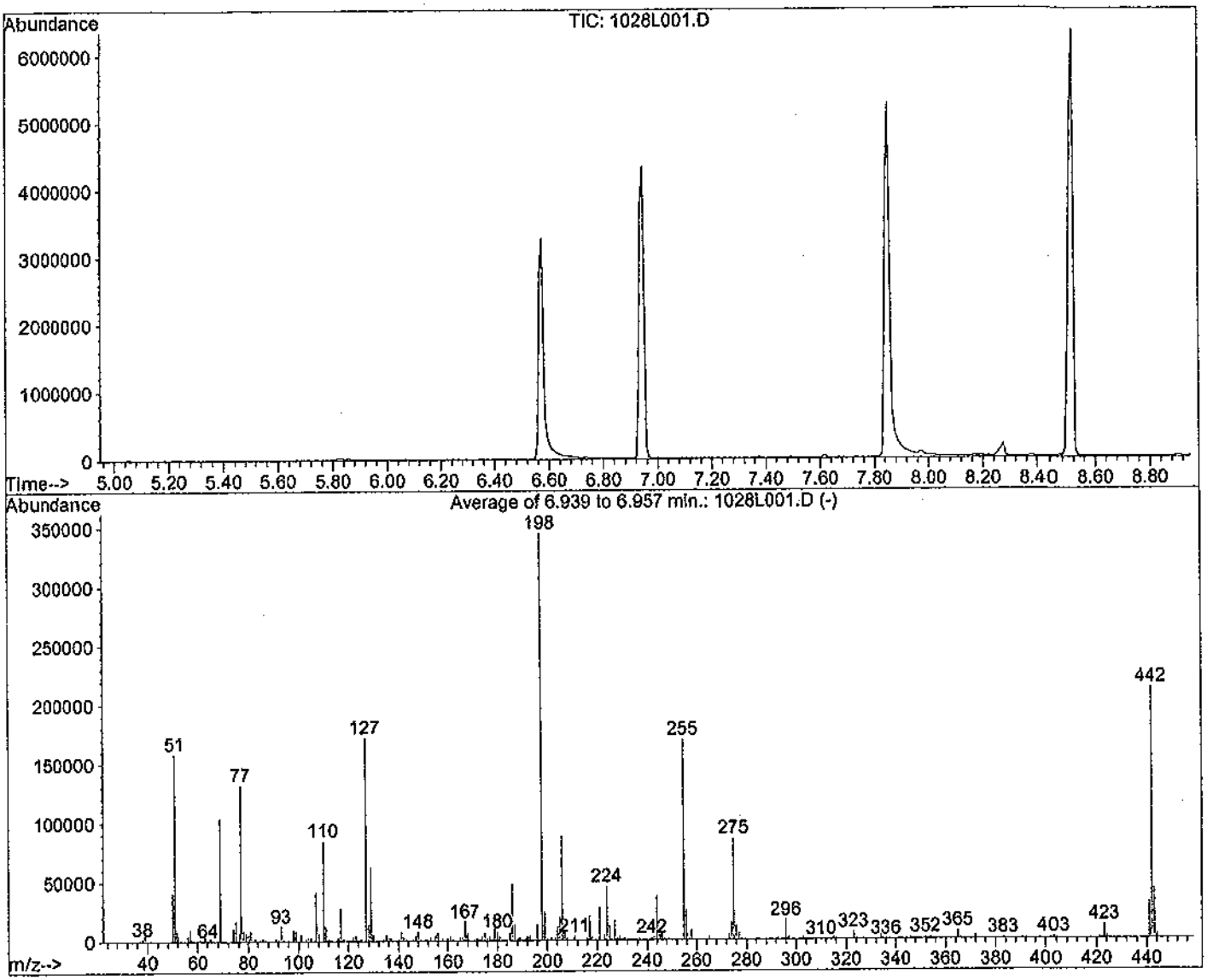
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.7	294016	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1188	PASS
127	198	40	60	54.3	314624	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	579520	PASS
199	198	5	9	7.0	40304	PASS
275	198	10	30	24.5	141888	PASS
365	198	1	100	2.0	11470	PASS
441	443	0.01	100	70.8	44728	PASS
442	198	40	150	52.6	304768	PASS
443	442	17	23	20.7	63176	PASS

DFTPP

Data File : M:\LINUS\DATA\L111027\1028L001.D
Acq On : 28 Oct 11 9:32
Sample : SVTUNE 10-27-11
Misc :

Vial: 1
Operator: LF
Inst : Linus
Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C



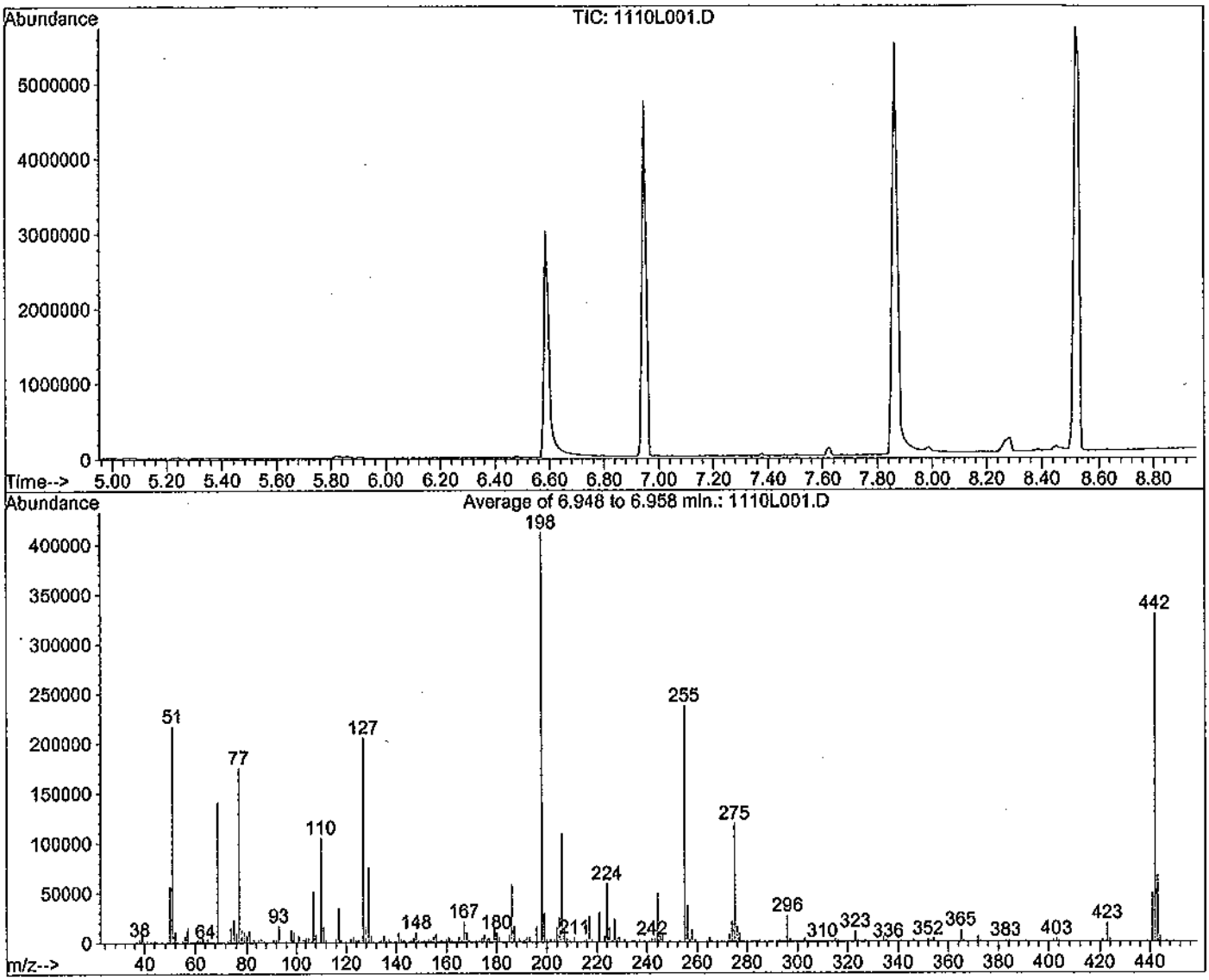
Spectrum Information: Average of 6.939 to 6.957 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.8	158326	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	519	PASS
127	198	40	60	49.8	171922	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	345360	PASS
199	198	5	9	7.1	24580	PASS
275	198	10	30	24.8	85541	PASS
365	198	1	100	2.0	6987	PASS
441	443	0.01	100	74.7	31248	PASS
442	198	40	150	61.5	212309	PASS
443	442	17	23	19.7	41843	PASS

DFTPP

Data File : M:\LINUS\DATA\L111027\1110L001.D Vial: 1
Acq On : 10 Nov 11 19:03 Operator: LF
Sample : SVTUNE 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C



Spectrum Information: Average of 6.948 to 6.958 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.6	216764	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.1	196	PASS
127	198	40	60	49.8	205180	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	411840	PASS
199	198	5	9	6.9	28568	PASS
275	198	10	30	28.8	118564	PASS
365	198	1	100	2.8	11726	PASS
441	443	0.01	100	74.8	49384	PASS
442	198	40	150	79.8	328608	PASS
443	442	17	23	20.1	66016	PASS

VF 1/17/11

PREP DATE:	01-17-11					
8270C Stock/Spike Standard						
Exp:	05-29-11					
		Conc.		Date	CODE:	µL
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	
Absolute	10001	2000	032009-28092	01/17/11	03-20-12	1000
Absolute	10001	2000	032009-28091	01/17/11	03-20-12	1000
Absolute	10002	2000	073109-27974	01/17/11	07-31-12	1000
Absolute	10002	2000	073109-27973	01/17/11	07-31-12	1000
Absolute	10004	2000	101509-27979	01/17/11	10-15-14	1000
Absolute	10004	2000	101509-27978	01/17/11	10-15-14	1000
Absolute	10005	2000	061209-27984	01/17/11	06-12-14	1000
Absolute	10005	2000	061209-27983	01/17/11	06-12-14	1000
Absolute	10006	2000	120810-27989	01/17/11	12-08-13	1000
Absolute	10006	2000	120810-27988	01/17/11	12-08-13	1000
Absolute	10007	2000	100909-28010	01/17/11	10-09-14	1000
Absolute	10007	2000	100909-28013	01/17/11	10-09-14	1000
Absolute	10018	2000	073109-27994	01/17/11	07-31-14	1000
Absolute	10018	2000	073109-27993	01/17/11	07-31-14	1000
Absolute	70023	1000	080310-28008	01/17/11	08-03-15	1000
Absolute	70023	1000	080310-28009	01/17/11	08-03-15	1000
Absolute	82705	2000	121010-27999	01/17/11	12-10-13	1000
Absolute	82705	2000	121010-27998	01/17/11	12-10-13	1000
Absolute	94552	2000	052908-28004	01/17/11	05-29-11	1000
Absolute	94552	2000	052908-28003	01/17/11	05-29-11	1000
					Final Vol	20000

VF 1/25/11

PREP DATE:	01-25-11																
8270T STANDARD CURVE																	
Exp:	02-24-11					0.1	0.2	1	5	10	20	40	50	60	80	100	
		Conc.		Date													
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date			µL	µL	µL	µL	µL	µL	µL	µL	µL	
	8270T Stock	200		12/17/10	05-29-11	0	0	0	5	5	10	20	25	30	40	50	
	5.0ug/mL			01/25/11		0	0	20	0	0	0	0	0	0	0	0	
	1.0ug/mL			01/25/11		10	20	0	0	0	0	0	0	0	0	0	
	Surrogate Stock	VAR	160538-27570	11/11/10	11-11-11	0	0	0	5	5	10	20	25	30	40	50	
EM Science	Methylene Chloride		47080			90	80	80	190	90	80	60	50	40	20	0	
					Final Vol.			100	200	100	100	100	100	100	100	100	

VF 1/25/11

PREP DATE:	01-25-11					
8270 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		10/06/10	10-06-11	25
EM Science	Methylene Chloride		47080			75
					Final Vol.	100

VF 1/25/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
31001-02
Lot # 167766 Storage 5-10 Degrees C Expiry 4/20/13
Solv: Methylene Chloride
RAD only, not known outside the USA

VF

exp 1/25/12

8270 Internal Standard
Lot #: 167766 - 28148
Rec: 1/20/11 MFR exp. 04/20/13

VF 1/25/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
31001-02
Lot # 167766 Storage 5-10 Degrees C Expiry 4/20/13
Solv: Methylene Chloride
RAD only, not known outside the USA

VF

exp 1/25/12

8270 Internal Standard
Lot #: 167766 - 28147
Rec: 1/20/11 MFR exp. 04/20/13

LF 3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
Lot #: 052908 Exp: 052911 1 mL
Semi-Volatile Standard
11 components
Varied ug/mL in
ABSOLUTE STANDA
Semi-Volatile Standard
Lot #: 052908 - 28001
Rec: 12/16/10 MFR exp. 05/29/11

LF exp 5/29/11

LF 3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
Lot #: 052908 Exp: 052911 1 mL
Semi-Volatile Standard
11 components
Varied ug/mL in
ABSOLUTE STANDA
Semi-Volatile Standard
Lot #: 052908 - 28002
Rec: 12/16/10 MFR exp. 05/29/11

exp 5/29/11

LF 3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
Lot #: 121010 Exp: 121013 Storage 4 °C
EPA Method 8270A
4 components
2000 ug/mL in ace
EPA Method 8270A-Mix#11
Lot #: 121010 - 27998
Rec: 12/16/10 MFR exp. 12/10/13
ABSOLUTE STANDARDS, INC.

exp 5/29/11

LF 3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
Lot #: 121010 Exp: 121013 Storage 4 °C
EPA Method 8270A - Mix #11
4 components
2000 ug/mL in ace
EPA Method 8270A-Mix#11
Lot #: 121010 - 27997
Rec: 12/16/10 MFR exp. 12/10/13
ABSOLUTE STANDA

exp 5/29/11

LF 3/23/11

PREP DATE:	03-23-11					
8270C Stock/Spike Standard						
Exp:	05-29-11					
		Conc.		Date	CODE:	P
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
Absolute	10001	2000	032009-28089	03/23/11	03-20-12	1000
Absolute	10001	2000	320009-28090	03/23/11	03-20-12	1000
Absolute	10002	2000	073109-27971	03/23/11	07-31-12	1000
Absolute	10002	2000	073109-27972	03/23/11	07-31-12	1000
Absolute	10004	2000	101509-27976	03/23/11	10-15-14	1000
Absolute	10004	2000	101509-27977	03/23/11	10-15-14	1000
Absolute	10005	2000	061209-27981	03/23/11	06-12-14	1000
Absolute	10005	2000	061209-27982	03/23/11	06-12-14	1000
Absolute	10006	2000	120810-27986	03/23/11	12-08-13	1000
Absolute	10006	2000	120810-27987	03/23/11	12-08-13	1000
Absolute	10007	2000	100909-28015	03/23/11	10-09-14	1000
Absolute	10007	2000	100909-28014	03/23/11	10-09-14	1000
Absolute	10018	2000	073109-27991	03/23/11	07-31-14	1000
Absolute	10018	2000	073109-27992	03/23/11	07-31-14	1000
Absolute	70023	1000	080310-28006	03/23/11	08-03-15	1000
Absolute	70023	1000	080310-28007	03/23/11	08-03-15	1000
Absolute	82705	2000	052908-28001	03/23/11	05-29-11	1000
Absolute	82705	2000	052908-28002	03/23/11	05-29-11	1000
Absolute	94552	2000	121010-27996	03/23/11	12-10-13	1000
Absolute	94552	2000	121010-27997	03/23/11	12-10-13	1000
					Final Vol	20000

LF 3/23/11

9mM IS exp 1/25/12
1500µL EM Science MC Lot #47080
100µL 8270 IS opened 1/25/11 exp 1/25/12

VF 3/28/11

o2si smart solutions — 8270 BN:A (200:400) Surrogate Solution, 1 ml
110004-17 — Storage: </=-10 Degrees C
Made in USA Lot No: 160538 — Solvent: Methylene Chloride
Exp: 8/10/2012
Date Opened: 8270 BN:A (200:400) Surrogate Solution
Lot #: 160538 - 27574
Rec: 10/18/10 MFR exp. 08/10/12

VF exp 3/28/12

VF 3/28/11

PREP DATE:	03-28-11															
8270T STANDARD CURVE																
Exp:	04-27-11					0.1	0.2	1	5	10	20	40	50	60	80	100
		Conc.		Date												
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date			µL	µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		03/23/11	05-29-11	0	0	0	5	5	10	20	25	30	40	50
	5.0ug/mL			03/28/11		0	0	20	0	0	0	0	0	0	0	0
	1.0ug/mL			03/28/11		10	20	0	0	0	0	0	0	0	0	0
	Surrogate Stock	VAR	160538-27574	03/28/11	03-28-12	0	0	0	5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47080			90	80	80	190	90	80	60	50	40	20	0
					Final Vol.			100	200	100	100	100	100	100	100	100

VF 3/28/11

PREP DATE:	03-28-11					
8270 Second Source (SS) 50ug/mL						50 VF
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		10/05/10	10-06-11	25
EM Science	Methylene Chloride		47080			75
					Final Vol.	100

VF 4/8/11

GCM-160-1 — ULTRA — 1 mL
Lot: CF-2995
Exp: 08/31/2011
Semi-Volatiles GC/MS Tuning Standard
4 analyte(s) at 1000 µg/mL in dichloromethane
250 Smith St, N Kingstown, RI 02852 USA
Semi-volatiles GC/MS Tuning Standard
Lot #: CF-2995 - 26131
Rec: 2/17/10 MFR exp. 08/31/11

VF exp 8/31/11

VF 4/13/11

PREP DATE:	04-13-11						
SV Tune Mix 50ug/ml							VF
Exp:	08-31-11						
		Conc.			Date	CODE:	B
Supplier	ID #	µg/mL	Lot #		Code	Exp.Date	µL
U. Scientific	GCM-150	1000	CF-2995-26131		04/13/11	08-31-11	1000
EM Science	MeCl2		47080				19000
						Final Vol	20000

exp 8/31/11

VF 4/20/11

8270D PAH SIM Solution, 200 mg/L, 1 ml
110780-01
Lot # 170253 — Storage: </=-10 Degrees C — Expiry: 3/3/13
Solvt: Methylene Chloride

VF exp 4/20/12

8270D PAH SIM
Lot #: 170253 - 28485
Rec: 3/10/11 MFR exp. 3/3/2013

VF 4/20/11

8270D PAH SIM Solution, Second Source, 200 mg/L, 1 ml
110780-01-SS
Lot # 170256 — Storage: </=-10 Degrees C — Expiry: 3/3/13
Solvt: Methylene Chloride

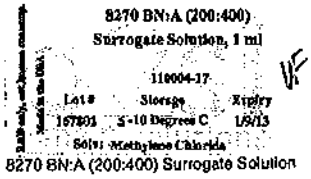
exp 4/20/12

8270D PAH SIM (SS)
Lot #: 170256 - 28487
Rec: 3/10/11 MFR exp. 3/3/2013

VF 8/16/11

PREP DATE:	08/16/11		exp:	08/23/11			
10ug/mL 1,2,3-TCP							
	50uL of 1000ug/mL 1,2,3 TCP into a final volume of 5mL of P&T Methanol						
	1000ug/mL 1,2,3 TCP date code:			05/27/11			
	P & T Methonal Lot #			9077-02			
PREP DATE:	08/16/11		exp:	08/23/11			
1ug/mL 1,2,3-TCP							
	5uL of 1000ug/mL 1,2,3 TCP into a final volume of 5mL of P&T Methanol						
	1000ug/mL 1,2,3 TCP date code:			05/27/11			
	P & T Methanol Lot #			JT Baker H46E44			
PREP DATE:	08/16/11		exp:	08/23/11			
2ug/mL 1,2,3-TCPd5							
	10uL of 2000ug/mL 1,2,3 TCP into a final volume of 10mL of P&T Methanol						
	2000ug/mL 1,2,3 TCP-d5 date code:			05/27/11			
	P & T Methanol Lot #			9077-02			

VF 8/22/11



VF exp 8/22/12

8270 BN:A (200:400) Surrogate Solution

Lot #: 167802 - 29313

Rec: 8/8/11 MFR exp. 01/09/13

VF 8/22/11

PREP DATE:	08-22-11													
8270 STANDARD CURVE														
Exp:	08-29-11						5	10	20	40	50	60	80	100
Supplier	ID #	Conc. µg/mL	Lot #	Date Code	Exp.Date		µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		07/26/11	01-26-12		5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12		5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47186				190	90	80	60	50	40	20	0
						Final Vol.	200	100	100	100	100	100	100	100

VF 8/22/11

PREP DATE:	08-22-11					
8270 Second Source (SS) 50ug/mL						
						50
Supplier	ID #	Conc. µg/mL	Lot #	Date Code	CODE: Exp.Date	µL
	8270C SS	200		10/06/10	10-06-11	25
EM Science	Methylene Chloride		47186			75
					Final Vol.	100

VF 9/21/11

PREP DATE:	09-21-11													
8270 BIN STANDARD CURVE														
						0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00
Supplier	ID #	Conc. µg/mL	Lot #	Date Code	CODE: Exp.Date	A µL	A µL	C µL	D µL	E µL	F µL	G µL	H µL
	8270D PAH SIM	200	170253-28485	04/20/11	04-20-12	0	0	0	0	5	5	25	50
	5.0ug/mL	5		09/21/11		0	0	10	20	0	0	0	0
	1.0ug/mL	1		09/21/11		10	20	0	0	0	0	0	0
	Surrogate Stock	VAR	167802-29313	08/22/11	08-23-11	0	0	0	0	5	5	25	50
EM Science	Methylene Chloride		47186			90	80	90	80	190	90	50	0
					Final Vol.	100	100	100	100	200	100	100	100

PREP DATE:	09-21-11						
SIM 8270 Second Source (5µg/mL)							
Exp:	10-05-11						
				Conc.	Date	CODE:	
Supplier	ID #		Lot #	µg/mL	Code	Exp.Date	µL
	8270D PAH SIM (SS)		170256-28487	200	04/20/11	04-20-12	5
	MeCl2			Lot#47185			195
					Final Volume		200

8270 BN Solution 14-4, 2,000 mg/L, 1 ml

Cat. No: 110391-01
Lot No: 158119
8270BN Solution 14-4
Lot #: 158119 - 28021
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

8270 BN Solution 14-3, 2,000 mg/L, 1 ml

Cat. No: 110392-01
Lot No: 158120
8270BN Solution 14-3
Lot #: 158120 - 28023
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
ened: _____

8270 Acid Solution 4-6, 2,000 mg/L, 1 ml

Cat. No: 110393-01
Lot No: 158121
8270B Acid Solution 4-6
Lot #: 158121 - 28025
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
n For Research Use Only
ned: _____

TCL Hazardous Substances Solution 2, 2,000 mg/L, 1 ml

Cat. No: 110394-01
Lot No: 158122
TCL Hzd. Soln. 2
Lot #: 158122 - 28016
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

PAH Solution 17-3, 2,000 mg/L, 1 ml

Cat. No: 116070-02
Lot No: 158123
PAH Solution
Lot #: 158123 - 28027
Rec: 12/16/10 MFR exp. 07/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

8270 Acid Solution 13-4, 2,000 mg/L, 1 ml

Cat. No: 110396-01
Lot No: 158124
8270 Acid Solution 13-4
Lot #: 158124 - 28029
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

10/10/11

8270 BN Solution 4-21, 2,000 mg/L, 1 ml

O2si
Cat. No: 110395-01
Lot No: 158125

8270BN Solution 4-21
Lot #: 158125 - 28031
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
pened: _____

UF exp 10/12/12

10/10/11

8270 11 Compound Custom Mix, 200:2,000 mg/L, 1 ml

O2si
Cat. No: 110397-01
Lot No: 158127

8270 11 Compound Mix
Lot #: 158127 - 28033
Rec: 12/16/10 MFR exp. 04/12/12

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
ened: _____

UF exp 4/12/12

10/10/11

Atrazine Solution, 1,000 mg/L, 1 ml

O2si
Cat. No: 010337-01
Lot No: 158126

Atrazine
Lot #: 158126 - 28019
Rec: 12/16/10 MFR exp. 04/12/12

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
ed: _____

UF exp 4/12/12

10/10/11

PREP DATE:	10-11-11					
8270C Second Source Stock Standard						
Exp:	04-12-12					
		Conc.		Date	CODE:	P
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
O2SI	110391-01	2000	158119-28021	10-11-11	04-17-13	1000
O2SI	110392-01	2000	158120-28023	10-11-11	04-17-13	1000
O2SI	110393-01	2000	158121-28025	10-11-11	04-17-13	1000
O2SI	110394-01	2000	158122-28018	10-11-11	04-17-13	1000
O2SI	116070-02	2000	158123-28027	10-11-11	04-17-13	1000
O2SI	110395-01	2000	158125-28031	10-11-11	04-17-13	1000
O2SI	110396-01	2000	158124-28029	10-11-11	04-17-13	1000
O2SI	110397-01	2000	158127-28033	10-11-11	04-12-12	1000
O2SI	010337-01	1000	158126-28019	10-11-11	04-12-12	1000
EM Science	MeCl2		47186			1000
					Final Vol	10000

UF

10/10/11

PREP DATE:	10-11-11													
8270 STANDARD CURVE														
Exp:	10-18-11						5	10	20	40	50	60	80	100
		Conc.		Date										
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date		µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		07/26/11	01-26-12		5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12		5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47186				190	90	80	60	50	40	20	0
						Final Vol.	200	100	100	100	100	100	100	100

UF

10/10/11

PREP DATE:	10-11-11					
8270 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		10/11/11	04-12-12	25
EM Science	Methylene Chloride		47186			75
					Final Vol.	100

UF

10/10/11

GCM-160-1
Lot: CH-2137
Exp. 07/31/2013
ULTRA 1 mL
Semi-Volatiles GC/MS Tuning Standard
4 analyte(s) at 1000 µg/mL in dichloromethane
For Lab Use Only

UF 50µg/mL SV Tune Mix
1 ml of GCM-160-1 opened 10/11/11 into 10mL EM Science MC Lot#47186
exp 10/~~11~~ 10/11/12

VF 10/18/11

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 042910 Exp: 042913 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in methy
ABSOLUTE STANDARD
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 042910 - 28440
Rec: 3/8/11 MFR exp. 4/29/2013

exp 10/18/12

VF 10/18/11

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 042910 Exp: 042913 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in m
ABSOLUTE STANDA
Lot #: 042910 - 29085
Rec: 8/4/11 MFR exp. 04/29/13

exp 10/18/12

VF 10/18/11

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in methyle
ABSOLUTE STANDARDS
CLP Semi-Volatiles Base/Neutrals Mix #2
Lot #: 073109 - 28446
Rec: 3/8/11 MFR exp. 7/31/2012

exp VF 7/31/12

VF 10/18/11

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in met
ABSOLUTE STANDAF
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 29090
Rec: 8/4/11 MFR exp. 07/31/12

exp 7/31/12

VF 10/18/11

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 101509 Exp: 101514 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in methyl
ABSOLUTE STANDARDS
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 28453
Rec: 3/8/11 MFR exp. 10/15/201

exp 10/18/12

VF 10/18/11

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 101509 Exp: 101514 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 29095
Rec: 8/4/11 MFR exp. 10/15/14

exp 10/18/12

VF 10/18/11

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 061209 Exp: 061214 Storage 4 °C
CLP Semi-Volatiles To... Substances #2
8 components
2000 ug/mL in methy
ABSOLUTE STANDARD
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 28458
Rec: 3/8/11 MFR exp. 6/12/2014

exp 10/18/12

VF 10/18/11

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 121208 Exp: 121213 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in met
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 121208 - 29100
Rec: 8/4/11 MFR exp. 12/12/13

exp 10/18/12

GC/MS STANDARD PREPARATION BOOK # J PAGE # 104

LF10/18/11

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in methar
ABSOLUTE STANDARD
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 28462
Rec: 3/8/11 MFR exp. 12/8/2013 BK

exp 10/18/12

LF10/18/11

Part #: 10006
Lot #: 071211
Laboratory Use Only - See MSDS
Exp: 071214 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in meth
ABSOLUTE STANDAR
Lot #: 071211 - 29105
Rec: 8/4/11 MFR exp. 07/12/14

exp 10/18/12

LF10/18/11

Part #: 10007
Lot #: 100909
Laboratory Use Only - See MSDS
Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in methy
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 28469
Rec: 3/8/11 MFR exp. 10/9/2014 BK

exp 10/18/12

LF10/18/11

Part #: 10007
Lot #: 100909
Laboratory Use Only - See MSDS
Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in meth
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 29110
Rec: 8/4/11 MFR exp. 10/09/14

exp 10/18/12

LF10/18/11

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Phen
2000 ug/mL in methyl
ABSOLUTE STANDARD
CLP Semi-Volatiles Mix #8 - Phenols
Lot #: 073109 - 28410
Rec: 3/8/11 MFR exp. 7/31/2014 BK

exp 10/18/12

LF10/18/11

Part #: 10018
Lot #: 062111
Laboratory Use Only - See MSDS
Exp: 062116 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Ph
2000 ug/mL in meth
ABSOLUTE STANDARD
EPA Method 8270A - Analytes Mix #8
Lot #: 062111 - 29115
Rec: 8/4/11 MFR exp. 06/21/16

LF10/18/12

LF10/18/11

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in aceto
ABSOLUTE STANDARD
Atrazine
Lot #: 080310 - 28416
Rec: 3/8/11 MFR exp. 8/13/2015 BK

exp 10/18/12

LF10/18/11

Part #: 70023
Lot #: 031611
Laboratory Use Only - See MSDS
Exp: 031616 Storage 4 °C
Atrazine
1000 ug/mL in ace
ABSOLUTE STANDA...
Atrazine
Lot #: 031611 - 29120
Rec: 8/4/11 MFR exp. 03/16/16

exp 10/18/12

10/18/11

Part #: 82705
Lot #: 121010
Laboratory Use Only - See MSDS
Exp: 121013 Storage 4 °C
EPA Method 8270A - Mix #11
4 components
2000 ug/mL in aceto
ABSOLUTE STANDAR
EPA Method 8270A - Mix #18
Lot #: 121010 - 28428
Rec: 3/8/11 MFR exp. 12/10/201

exp 10/18/12

10/18/11

Part #: 82705
Lot #: 041911
Laboratory Use Only - See MSDS
Exp: 041914 Storage 4 °C
EPA Method 8270A - Mix #11
4 components
2000 ug/mL in aceto
ABSOLUTE STANDAR
Lot #: 041911 - 29125
Rec: 8/4/11 MFR exp. 04/19/14

exp 10/18/12

10/18/11

Part #: 94552
Lot #: 030411
Laboratory Use Only - See MSDS
Exp: 030414 Storage 4 °C
Semi-Volatile Standard
11 components
Varied ug/mL in met
ABSOLUTE STANDARD
Semi-Volatile Standard
Lot #: 030411 - 28423
Rec: 3/8/11 MFR exp. 3/4/2014

exp 10/18/12

10/18/11

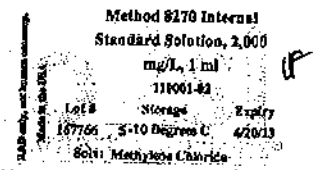
Part #: 94552
Lot #: 030411
Laboratory Use Only - See MSDS
Exp: 030414 Storage 4 °C
Semi-Volatile Standa
11 components
Varied ug/mL in met
ABSOLUTE STANDARDS, INC.
Semi-Volatile Standard
Lot #: 030411 - 29130
Rec: 8/4/11 MFR exp. 03/04/14

exp 10/18/12

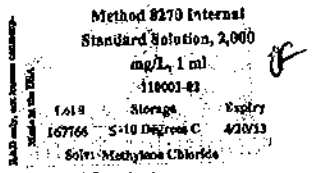
10/18/11

PREP DATE:	10-18-11					
8270C Stock/Spike Standard						
Exp:	04-18-12					
		Conc.		Date	CODE:	P
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
Absolute	10001	2000	042910-28440	10/18/11	04-29-13	1000
Absolute	10001	2000	042910-29085	10/18/11	04-29-13	1000
Absolute	10002	2000	073109-28446	10/18/11	07-31-12	1000
Absolute	10002	2000	073109-29090	10/18/11	07-31-12	1000
Absolute	10004	2000	101509-28453	10/18/11	10-15-14	1000
Absolute	10004	2000	101509-29095	10/18/11	10-15-14	1000
Absolute	10005	2000	061209-28458	10/18/11	06-12-14	1000
Absolute	10005	2000	121208-29100	10/18/11	12-12-13	1000
Absolute	10006	2000	120810-28462	10/18/11	12-08-13	1000
Absolute	10006	2000	071211-29105	10/18/11	07-12-14	1000
Absolute	10007	2000	100909-28469	10/18/11	10-09-14	1000
Absolute	10007	2000	100909-29110	10/18/11	10-09-14	1000
Absolute	10018	2000	073109-28410	10/18/11	07-31-14	1000
Absolute	10018	2000	062111-29115	10/18/11	06-21-16	1000
Absolute	70023	1000	080310-28416	10/18/11	08-03-15	1000
Absolute	70023	1000	031611-29120	10/18/11	03-16-16	1000
Absolute	82705	2000	121010-28428	10/18/11	12-10-13	1000
Absolute	82705	2000	041911-29125	10/18/11	04-19-14	1000
Absolute	94552	2000	030411-28423	10/18/11	03-04-14	1000
Absolute	94552	2000	030411-29130	10/18/11	03-04-14	1000
					Final Vol	20000

LF 10/18/11



8270 Internal Standard
Lot #: 167766 - 28149
Rec: 1/20/11 MFR exp. 04/20/13



8270 Internal Standard
Lot #: 167766 - 28150
Rec: 1/20/11 MFR exp. 04/20/13

exp 10/18/12

LF 10/27/11

GCM-150-1
Lot: CH-2137
Exp: 07/31/2013
ULTRA
1 mL
Semi-Volatiles GC/MS Tuning Standard
4 analyte(s) at 1000 µg/mL in dichloromethane
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

exp 10/27/12

50µg/mL SV Tune Mix 1mL of GCM-150-1 Lot# CH2137 into 19mL of Chem Science MC Lot# 47080.

LF 10/27/11

PREP DATE:	10-27-11												
8270 SIM STANDARD CURVE													
						0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00
		Conc.		Date	CODE:	A	A	C	D	E	F	G	H
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL	µL	µL	µL	µL	µL	µL	µL
	8270D PAH SIM	200	170253-28485	04/20/11	04-20-12	0	0	0	0	5	5	25	50
	5.0ug/mL	5		10/27/11		0	0	10	20	0	0	0	0
	1.0ug/mL	1		10/27/11		10	20	0	0	0	0	0	0
	Surrogate Stock	VAR	167802-29311	08/22/11	08-22-12	0	0	0	0	5	5	25	50
EM Science	Methylene Chloride		47186			90	80	90	80	190	90	50	0
					Final Vol.	100	100	100	100	200	100	100	100

LF 10/27/11

PREP DATE:	10-27-11					
SIM 8270 Second Source (5µg/mL)						
Exp:	11-10-11					
				Conc.	Date	CODE:
Supplier	ID #		Lot #	µg/mL	Code	Exp.Date
	8270D PAH SIM (SS)		170256-28487	200	04/20/11	04-20-12
	MeCl2			Lot#47186		
					Final Volume	

µL
5
195
200

LF 11/8/11

PREP DATE:	11-08-11												
8270 STANDARD CURVE													
Exp:	11-15-11					5	10	20	40	50	60	80	100
		Conc.		Date									
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		10/18/11	04-18-12	5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12	5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47186			190	90	80	60	50	40	20	0
					Final Vol.	200	100	100	100	100	100	100	100

LF 11/8/11

PREP DATE:	11-08-11					
8270 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		10/11/11	04-12-12	25
EM Science	Methylene Chloride		47186			75
					Final Vol.	100

LF

_SEP004S

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	111108A	Extraction Method	SEP004S	Units	mL

Spiked ID 1	SIM Spike 178987-29587		Surrogate ID 1	8270 SIM Surrogate 172835-28827	
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	no	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	11/17/11 0:00	

pH1	2	/8/2011 12:40:00 PM	Water Bath Temp Criteria	80 °C
pH2	14	1/8/2011 2:00:00 PM		
pH3				

Spiked By: HW **Date** 11/8/2011 **Witnessed By:** CC **Date** 11/8/2011

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	111108A Blk				0.025	1	1000	1	2/1	11/08/11 12:40	
						equip	E-WB5				
2	111108A LCS-1		0.025	1	0.025	1	1000	1	2/1	11/08/11 12:40	
						equip	E-WB5				
3	AY50005	AY50005W05			0.025	1	1050	1	2/1	11/08/11 12:40	66186-2 week rush -- Amber Liter
						equip	E-WB5				
4	AY50011	AY50011W07			0.025	1	1050	1	2/1	11/08/11 12:40	66187-2 week rush -- Amber Liter
						equip	E-WB5				
5	AY50017	AY50017W07			0.025	1	1050	1	2/1	11/08/11 12:40	66187-2 week rush -- Amber Liter
						equip	E-WB5				

HW 11/8/11

Solvent and Lot#	
MC	EMD 51204
Na2SO4	3581C501
10N NaOH	10/31/11
1+1 Acid	09/15/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	JF
Date	11/10/11
Time	1700
Refrigerator	Howard

	Technician's Initials
Scanned By	HW
Sample Preparation	HW
Extraction	HW
Concentration	HW

Modified	11/8/2011 12:08:05 PM

Reviewed By: HW **Date** 11/8/2011

Injection Log

Directory: M:\LINUS\DATA\L111027\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1027L001.D	1	SVTUNE 10-27-11		27 Oct 11 18:29
2	3	1027L003.D	1	0.1ug/ml PAH 10-27-11		27 Oct 11 19:12
3	4	1027L004.D	1	0.2ug/ml PAH		27 Oct 11 19:38
4	1	1028L001.D	1	SVTUNE 10-27-11		28 Oct 11 9:32
5	5	1028L005.D	1	0.5ug/ml PAH		28 Oct 11 11:07
6	6	1028L006.D	1	1.0ug/ml PAH		28 Oct 11 11:32
7	7	1028L007.D	1	5.0ug/ml PAH		28 Oct 11 11:58
8	8	1028L008.D	1	10ug/ml PAH		28 Oct 11 12:23
9	9	1028L009.D	1	50ug/ml PAH		28 Oct 11 12:49
10	10	1028L010.D	1	100ug/ml PAH		28 Oct 11 13:14
11	11	1028L011.D	1	5.0ug/ml SS PAH 10-27-11		28 Oct 11 13:40
12	1	1110L001.D	1	SVTUNE 10-27-11		10 Nov 11 19:03
13	2	1110L002.D	1	5.0ug/ml PAH 10-27-11		10 Nov 11 19:22
14	3	1110L003.D	1	111108A BLK 1/1000		10 Nov 11 19:47
15	4	1110L004.D	1	111108A LCS-1 1/1000		10 Nov 11 20:12
16	5	1110L005.D	0.95238	AY50005W05 1/1050		10 Nov 11 20:38

EPA METHOD 8260B
Volatile Organic Compounds

APPL, INC.

EPA METHOD 8260B
Volatile Organic Compounds
QC Summary

APPL, INC.

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **111105W-50004 - 160965**
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/05/11	11/05/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/05/11	11/05/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/05/11	11/05/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	11/05/11	11/05/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/05/11	11/05/11
BLANK	1,3-DICHLOROPROPENE, TOTA	0.36 U	1.0	0.36	0.18	ug/L	11/05/11	11/05/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/05/11	11/05/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/05/11	11/05/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/05/11	11/05/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/05/11	11/05/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	11/05/11	11/05/11
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/05/11	11/05/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/05/11	11/05/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/05/11	11/05/11

Quant Method: CALLW.M
Run #: 1105C09
Instrument: Chico
Sequence: C111104
Initials: DG

GC SC-Blank-REG MDLs
Printed: 12/08/11 4:17:25 PM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **111105W-50004 - 160965**
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/05/11	11/05/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/05/11	11/05/11
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/05/11	11/05/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	SURROGATE: 1,2-DICHLOROET	87.0	70-120			%	11/05/11	11/05/11
BLANK	SURROGATE: 4-BROMOFLUOR	96.5	75-120			%	11/05/11	11/05/11
BLANK	SURROGATE: DIBROMOFLUOR	90.3	85-115			%	11/05/11	11/05/11
BLANK	SURROGATE: TOLUENE-D8 (S)	93.8	85-120			%	11/05/11	11/05/11

Quant Method: CALLW.M
Run #: 1105C09
Instrument: Chico
Sequence: C111104
Initials: DG

GC SC-Blank-REG MDLs
Printed: 12/08/11 4:17:25 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66186

Case No: 66186 Date Analyzed: 11/05/11

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111105AC-LCS	Lab Control Spike	70-120	90.5		75-120	98.2	
111105AC-BLK	Blank	70-120	87.0		75-120	96.5	
AY50004	ES056	70-120	89.3		75-120	101	
AY50005	ES057	70-120	84.1		75-120	100	

Comments: Batch: #86RHB-111105AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66186

Case No: 66186 Date Analyzed: 11/05/11

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111105AC-LCS	Lab Control Spike	85-115	98.1		85-120	93.0	
111105AC-BLK	Blank	85-115	90.3		85-120	93.8	
AY50004	ES056	85-115	91.9		85-120	97.8	
AY50005	ES057	85-115	86.7		85-120	95.9	

Comments: Batch: #86RHB-111105AC

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **111105W-50004 LCS - 160965**
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.01	90.1	80-130
1,1,1-TRICHLOROETHANE	10.00	8.38	83.8	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.2	102	65-130
1,1,2-TRICHLOROETHANE	10.00	9.78	97.8	75-125
1,1-DICHLOROETHANE	10.00	10.5	105	70-135
1,1-DICHLOROETHENE	10.00	9.57	95.7	70-130
1,2,3-TRICHLOROPROPANE	10.00	8.50	85.0	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.38	93.8	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.45	84.5	50-130
1,2-DIBROMOETHANE	10.00	8.37	83.7	70-130
1,2-DICHLOROBENZENE	10.00	9.72	97.2	70-120
1,2-DICHLOROETHANE	10.00	8.20	82.0	70-130
1,2-DICHLOROPROPANE	10.00	11.6	116	75-125
1,3-DICHLOROBENZENE	10.00	9.98	99.8	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.3	102	70-130
1,4-DICHLOROBENZENE	10.00	10.1	101	75-125
2-BUTANONE	10.00	9.57	95.7	30-150
4-METHYL-2-PENTANONE	10.00	10.7	107	60-135
ACETONE	10.00	10.8	108	40-140
BENZENE	10.00	11.0	110	80-120
BROMODICHLOROMETHANE	10.00	8.69	86.9	75-120
BROMOFORM	10.00	7.75	77.5	70-130
BROMOMETHANE	10.00	9.21	92.1	30-145
CARBON TETRACHLORIDE	10.00	8.10	81.0	65-140
CHLOROBENZENE	10.00	9.18	91.8	80-120
CHLORODIBROMOMETHANE	10.00	8.29	82.9	60-135

Comments:

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	11/05/11
Analysis Date :	11/05/11
Instrument :	Chlco
Run :	1105C03
Initials :	DG

Printed: 12/08/11 4:17:34 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **111105W-50004 LCS - 160965**
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	11.7	117	60-135
CHLOROFORM	10.00	9.27	92.7	65-135
CHLOROMETHANE	10.00	9.41	94.1	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.24	92.4	70-125
ETHYLBENZENE	10.00	9.72	97.2	75-125
GASOLINE	300	285	95.0	75-125
HEXACHLOROBUTADIENE	10.00	8.51	85.1	50-140
METHYL TERT-BUTYL ETHER	10.00	9.18	91.8	65-125
METHYLENE CHLORIDE	10.00	9.48	94.8	55-140
STYRENE	10.00	9.74	97.4	65-135
TETRACHLOROETHENE	10.00	8.71	87.1	45-150
TOLUENE	10.00	10.0	100	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.57	95.7	60-140
TRICHLOROETHENE	10.00	9.37	93.7	70-125
VINYL CHLORIDE	10.00	9.11	91.1	50-145
XYLENES (TOTAL)	30.0	29.1	97.0	80-120
SURROGATE: 1,2-DICHLOROETHANE-	21.2	19.2	90.5	70-120
SURROGATE: 4-BROMOFLUOROBENZ	25.5	25.0	98.2	75-120
SURROGATE: DIBROMOFLUOROMETH	21.1	20.7	98.1	85-115
SURROGATE: TOLUENE-D8 (S)	25.8	24.0	93.0	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	11/05/11
Analysis Date :	11/05/11
Instrument :	Chico
Run :	1105C03
Initials :	DG

Printed: 12/08/11 4:17:35 PM

APPL Standard LCS

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66186

Case No: 66186 Date Analyzed: 11/05/11

Matrix: WATER Instrument: Chico

Blank ID: 111105AC-BLK Time Analyzed: 1704

APPL ID.	Client Sample No.	File ID.	Date Analyzed
111105AC-LCS	Lab Control Spike	1105C03	11/05/11 1245
111105AC-BLK	Blank	1105C09	11/05/11 1704
AY50004	ES056	1105C10	11/05/11 1748
AY50005	ES057	1105C11	11/05/11 1831

Comments: Batch: #86RHB-111105AC

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 66186
Matrix: Water
ID: 20ug/ml BFB Std 02-17-10D

SDG No: 66186
Date Analyzed: 11/05/11
Instrument: Chico
Time Analyzed: 10:47

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		VOC STD 11-5-11@10ug	1105C02W.D	11/05/11 12:02
2	Lab Control Spike	111105A LCS-1WC	1105C03W.D	11/05/11 12:45
3		Gas CCV 11-05-11@300	1105C05W.D	11/05/11 14:11
4	Lab Control Spike	111105A LCS-1WC (GAS	1105C06W.D	11/05/11 14:54
5	Blank	111105A BLK-1WC	1105C09W.D	11/05/11 17:04
6	ES056	AY50004W01	1105C10W.D	11/05/11 17:48
7	ES057	AY50005W01	1105C11W.D	11/05/11 18:31
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	22.3
75	30 - 60% of mass 95	49.5
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.2
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	83.1
175	5 - 9% of mass 174	7.1
176	95 - 101% of mass 174	96.8
177	5 - 9% of mass 176	6.2

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66186

Lab File ID (Standard): 1104C09W.D Date Analyzed: 4 Nov 11 15:53

Instrument ID: Chico Time Analyzed: 4 Nov 11 15:53

GC Column: _____ ID: Heated Purge: (Y/N) _____

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	379520	12.88	242112	18.07	128488	22.28
	UPPER LIMIT	759040	13.38	484224	18.57	256976	22.78
	LOWER LIMIT	189760	12.38	121056	17.57	64244	21.78
	SAMPLE NO.						
01	VOC STD 11-5-11@10u	595584	12.84	402432	18.05	212800	22.24
02	111105A LCS-1WC	598784	12.85	432320	18.04	227456	22.25
03	111105A BLK-1WC	639936	12.85	438336	18.05	229504	22.25
04	AY50004W01	620800	12.85	411008	18.05	224768	22.25
05	AY50005W01	638720	12.85	426432	18.05	222400	22.25
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66186

Lab File ID (Standard): 1030C08W.D Date Analyzed: 10/30/11

Instrument ID: Chico Time Analyzed: 18:26

GC Column: _____ ID: Heated Purge: (Y/N) _____

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1085670	12.84	1080400	18.04	1118270	22.24
	UPPER LIMIT	2171340	13.34	2160800	18.54	2236540	22.74
	LOWER LIMIT	542835	12.34	540200	17.54	559135	21.74
	SAMPLE NO.						
01	Gas CCV 11-05-11@300ug/L	1284530	12.85	1273280	18.04	1316870	22.25
02	111105A LCS-1WC (GAS)	1341940	12.85	1285560	18.04	1316050	22.25
03	111105A BLK-1WC	1344860	12.85	1284530	18.05	1297790	22.25
04	AY50004W01	1298000	12.85	1242540	18.05	1255780	22.25
05	AY50005W01	1331270	12.85	1269390	18.05	1253510	22.25
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

EPA METHOD 8260B
Volatile Organic Compounds
Sample Data

APPL, INC.

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024
Sample ID: ES056
Sample Collection Date: 11/02/11

ARF: 66186
APPL ID: AY50004
QCG: #86RHB-111105AC-160965

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/05/11	11/05/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/05/11	11/05/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/05/11	11/05/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	11/05/11	11/05/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/05/11	11/05/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/05/11	11/05/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/05/11	11/05/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/05/11	11/05/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROFORM	0.13 J	1.0	0.14	0.07	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/05/11	11/05/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/05/11	11/05/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/05/11	11/05/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/05/11	11/05/11

J = Estimated value.

Quant Method: CALLW.M
Run #: 1105C10
Instrument: Chico
Sequence: C111104
Dilution Factor: 1
Initials: DG

Printed: 12/08/11 4:17:43 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024
Sample ID: ES056
Sample Collection Date: 11/02/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66186
APPL ID: AY50004
QCG: #86RHB-111105AC-160965

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/05/11	11/05/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/05/11	11/05/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	89.3	70-120			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	101	75-120			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	91.9	85-115			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	97.8	85-120			%	11/05/11	11/05/11

J = Estimated value.

Quant Method: CALLW.M
Run #: 1105C10
Instrument: Chico
Sequence: C111104
Dilution Factor: 1
Initials: DG

Printed: 12/08/11 4:17:43 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C10W.D Vial: 1
Acq On : 5 Nov 11 17:48 Operator: STC
Sample : AY50004W01 Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:20 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	620800	25.00000 ppb	-0.03
55) Chlorobenzene-D5 (IS)	18.05	117	411008	25.00000 ppb	-0.03
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	224768	25.00000 ppb	-0.03
System Monitoring Compounds					
33) Dibromofluoromethane(S)	11.43	111	418625	19.39064 ppb	-0.03
Spiked Amount 21.097			Recovery = 91.912%		
38) 1,2-DCA-D4(S)	12.23	65	357977	18.94703 ppb	-0.03
Spiked Amount 21.225			Recovery = 89.266%		
56) Toluene-D8(S)	15.51	98	1528328	25.23984 ppb	-0.03
Spiked Amount 25.808			Recovery = 97.798%		
64) 4-Bromofluorobenzene(S)	20.13	95	551484	25.81893 ppb	-0.03
Spiked Amount 25.459			Recovery = 101.412%		
Target Compounds					Qvalue
31) Chloroform	11.10	83	4911	0.12995 ppb	95

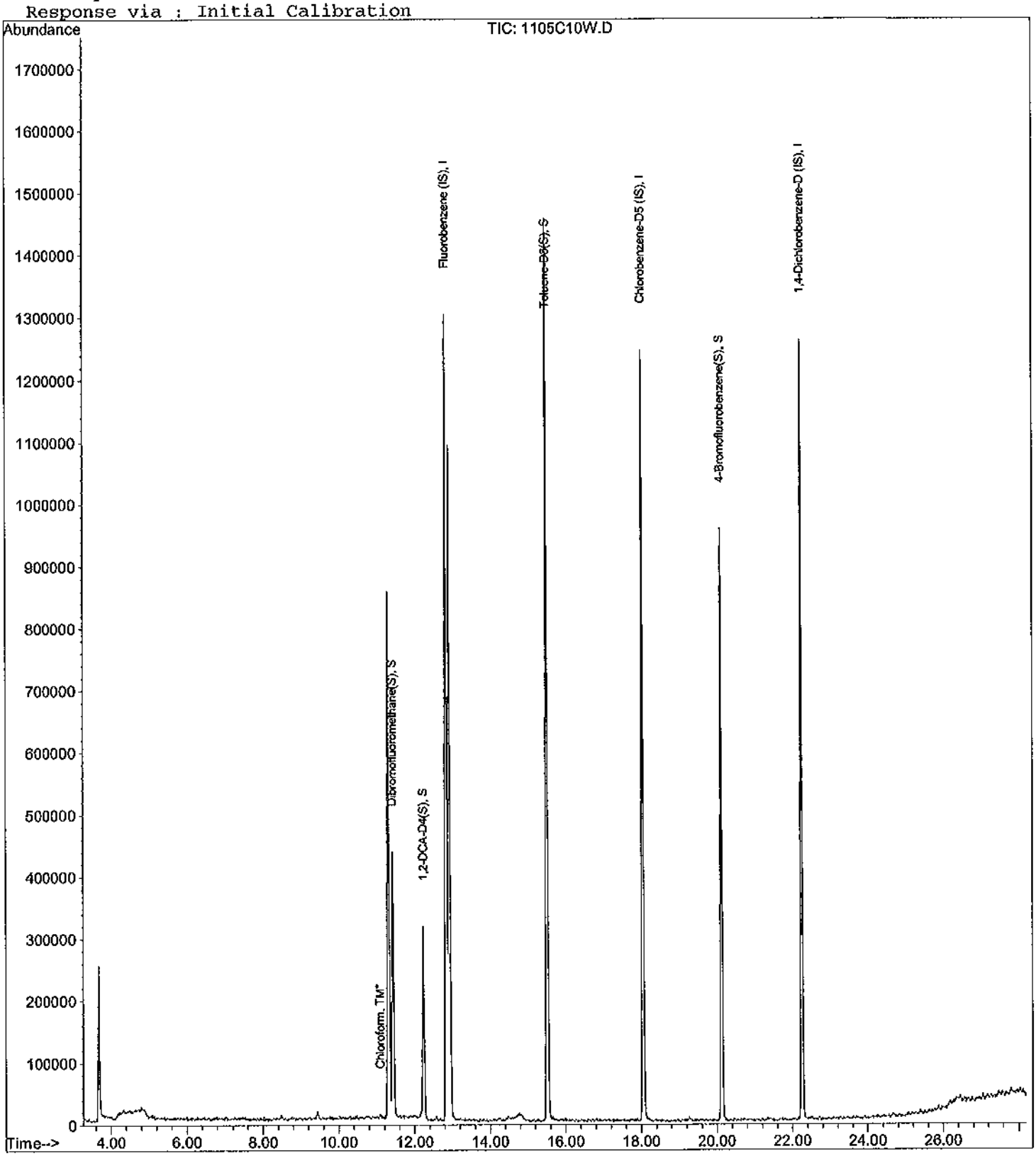
(#) = qualifier out of range (m) = manual integration

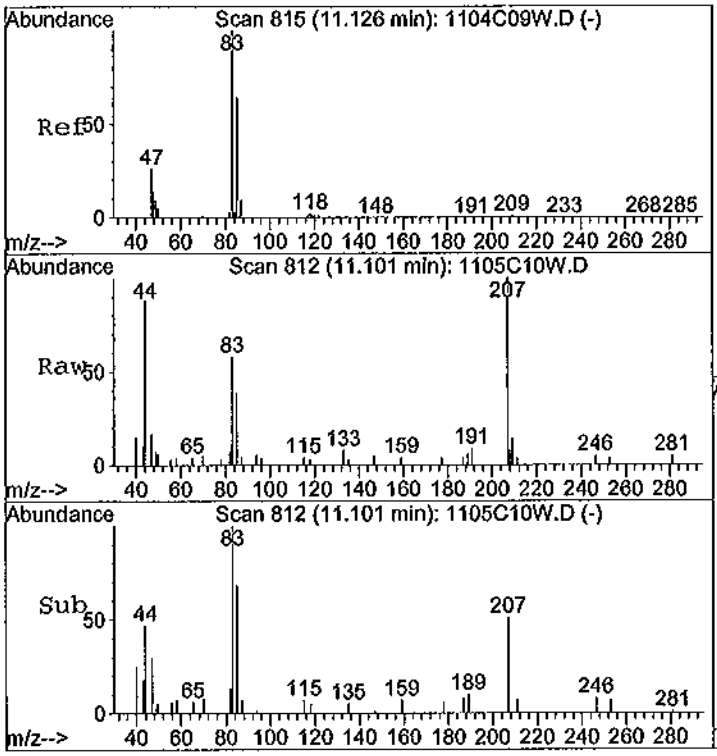
Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C10W.D Vial: 1
Acq On : 5 Nov 11 17:48 Operator: STC
Sample : AY50004W01 Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:20 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration

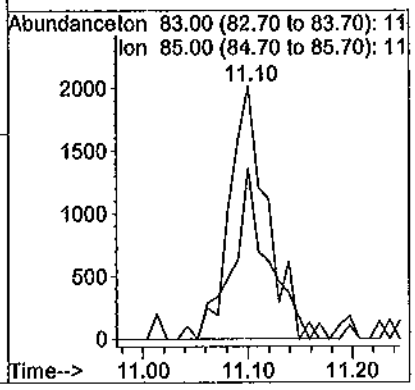




#31
Chloroform
Concen: 0.12995 ppb
RT: 11.10 min Scan# 812
Delta R.T. -0.03 min
Lab File: 1105C10W.D
Acq: 5 Nov 11 17:48

Tgt Ion: 83 Resp: 4911

Ion	Ratio	Lower	Upper
83	100		
85	67.5	44.7	83.1



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C10W.D Vial: 1
Acq On : 5 Nov 11 17:48 Operator: STC
Sample : AY50004W01 Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:44 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1297996	25.00000	ppb	0.01
3) Chlorobenzene-D5 (IS)	18.05	TIC	1242539	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1255775	25.00000	ppb	0.01

System Monitoring Compounds

Target Compounds Qvalue

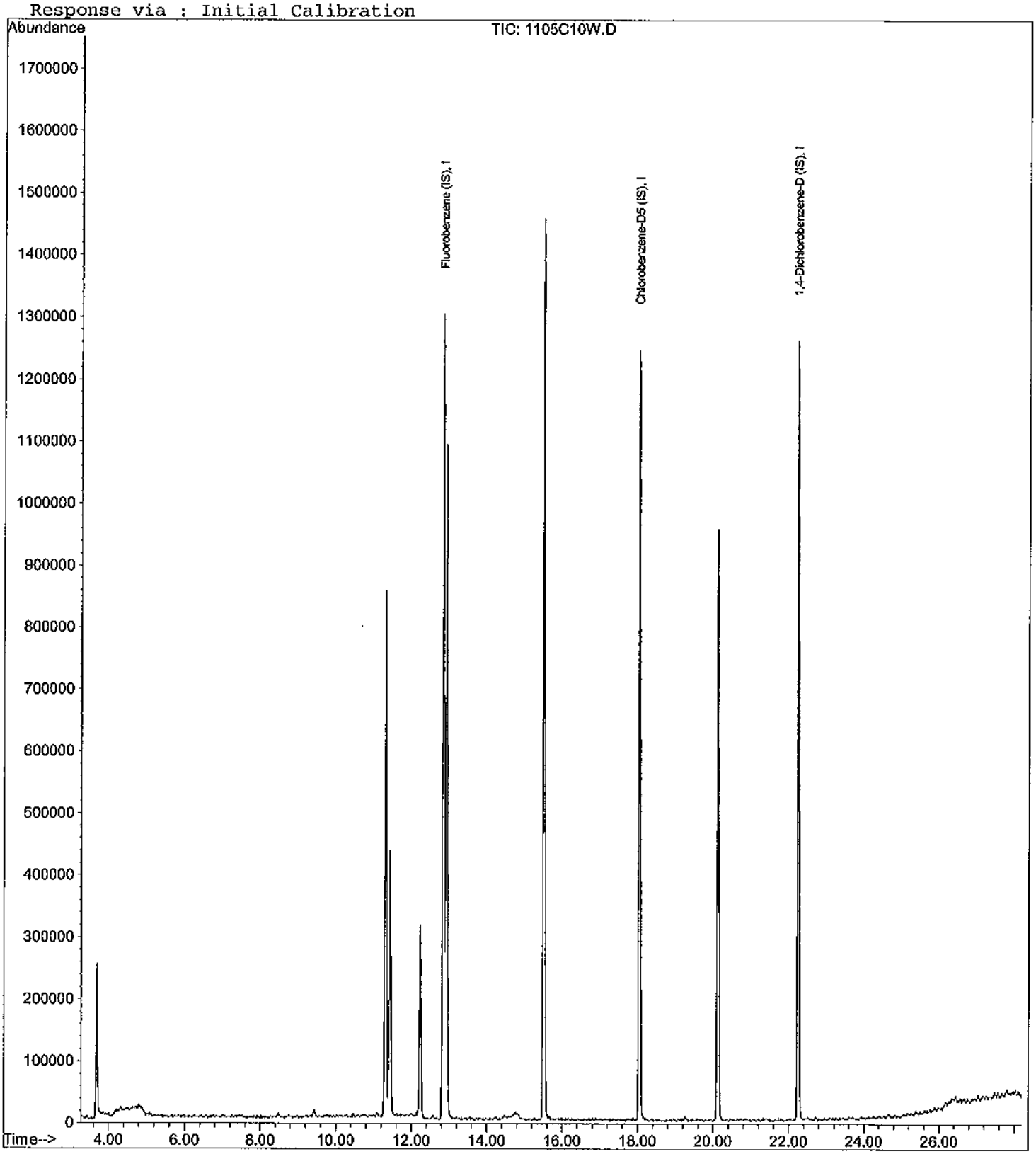
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C10W.D Vial: 1
Acq On : 5 Nov 11 17:48 Operator: STC
Sample : AY50004W01 Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:44 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024
Sample ID: ES057
Sample Collection Date: 11/02/11

ARF: 66186
APPL ID: AY50005
QCG: #86RHB-111105AC-160965

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/05/11	11/05/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/05/11	11/05/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/05/11	11/05/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	11/05/11	11/05/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/05/11	11/05/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/05/11	11/05/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/05/11	11/05/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/05/11	11/05/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROFORM	0.13 J	1.0	0.14	0.07	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/05/11	11/05/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/05/11	11/05/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/05/11	11/05/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/05/11	11/05/11

J = Estimated value.

Quant Method: CALLW.M
Run #: 1105C11
Instrument: Chico
Sequence: C111104
Dilution Factor: 1
Initials: DG

Printed: 12/08/11 4:17:43 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024
Sample ID: ES057
Sample Collection Date: 11/02/11

ARF: 66186
APPL ID: AY50005
QCG: #86RHB-111105AC-160965

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/05/11	11/05/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/05/11	11/05/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	84.1	70-120			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	100	75-120			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	86.7	85-115			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	95.9	85-120			%	11/05/11	11/05/11

J = Estimated value.

Quant Method:	CALLW.M
Run #:	1105C11
Instrument:	Chico
Sequence:	C111104
Dilution Factor:	1
Initials:	DG

Printed: 12/08/11 4:17:43 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C11W.D Vial: 1
Acq On : 5 Nov 11 18:31 Operator: STC
Sample : AY50005W01 Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:37 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	638720	25.00000 ppb	-0.03
55) Chlorobenzene-D5 (IS)	18.05	117	426432	25.00000 ppb	-0.02
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	222400	25.00000 ppb	-0.03
System Monitoring Compounds					
33) Dibromofluoromethane(S)	11.44	111	406408	18.29660 ppb	-0.03
Spiked Amount 21.097			Recovery = 86.727%		
38) 1,2-DCA-D4(S)	12.24	65	346833	17.84217 ppb	-0.03
Spiked Amount 21.225			Recovery = 84.060%		
56) Toluene-D8(S)	15.52	98	1554381	24.74162 ppb	-0.03
Spiked Amount 25.808			Recovery = 95.868%		
64) 4-Bromofluorobenzene(S)	20.12	95	565450	25.51527 ppb	-0.03
Spiked Amount 25.459			Recovery = 100.218%		
Target Compounds					Qvalue
31) Chloroform	11.12	83	4995	0.12847 ppb #	75
83) Tert-Butylbenzene	21.38	119	11822	0.16145 ppb	91

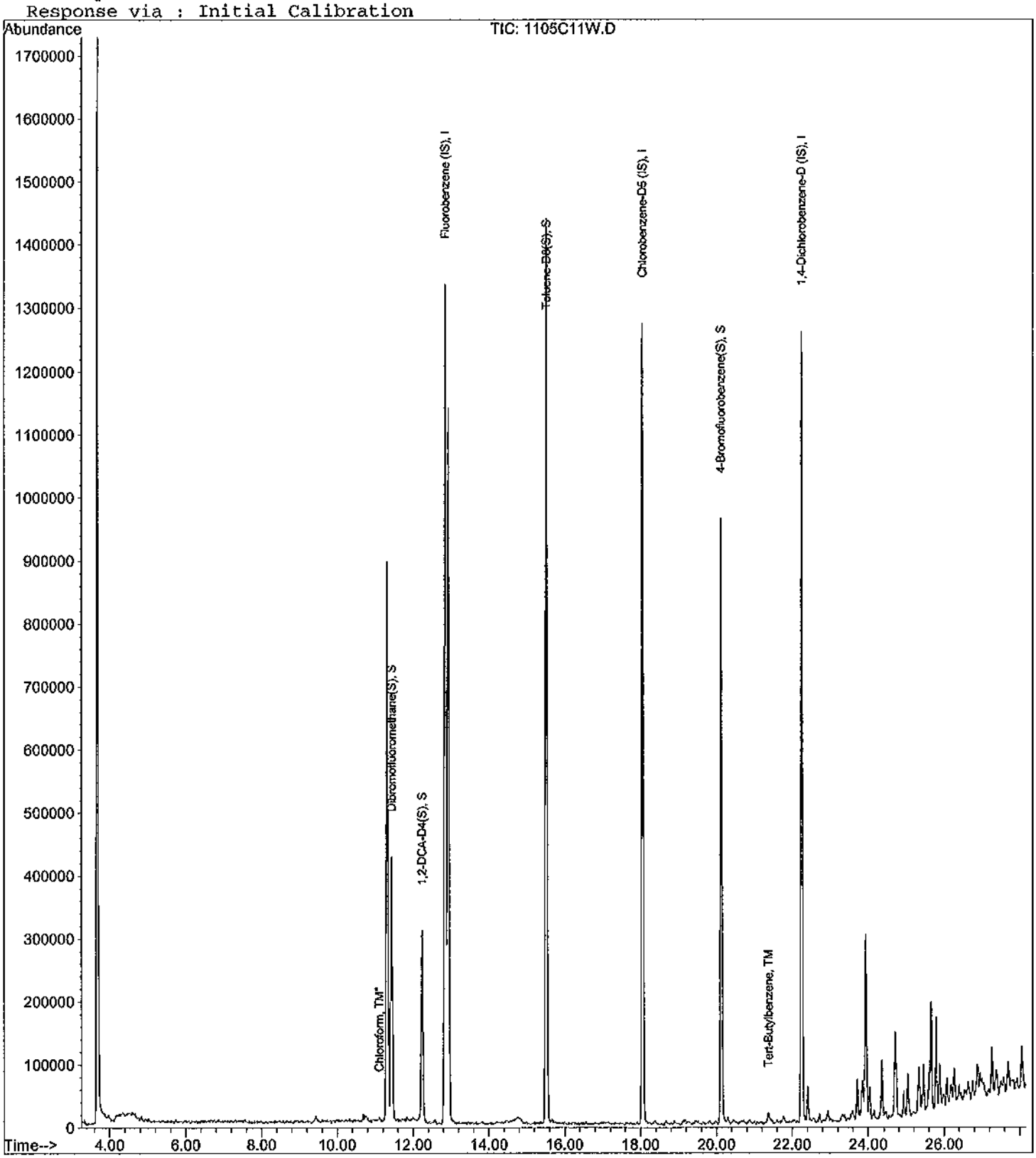
(#) = qualifier out of range (m) = manual integration

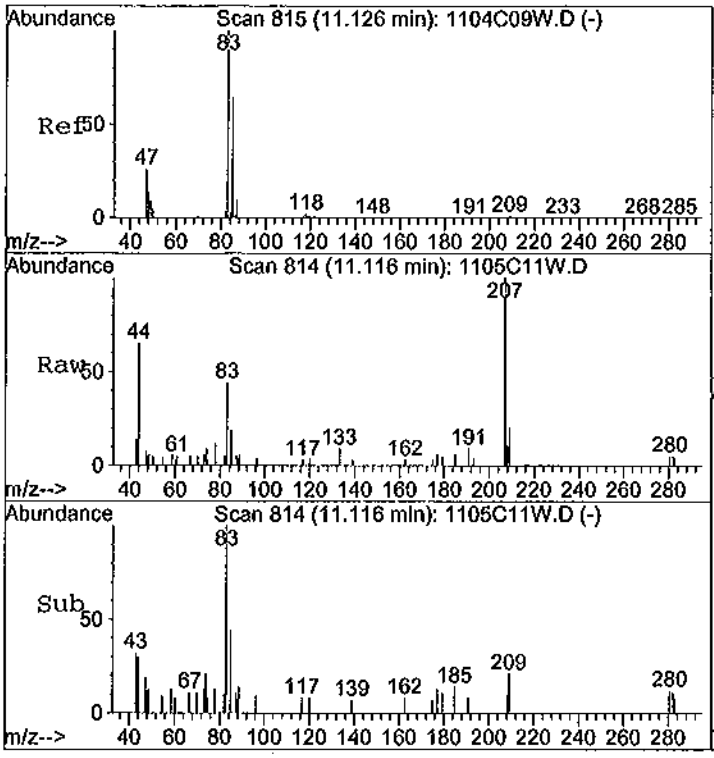
Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C11W.D Vial: 1
Acq On : 5 Nov 11 18:31 Operator: STC
Sample : AY50005W01 Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:37 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration

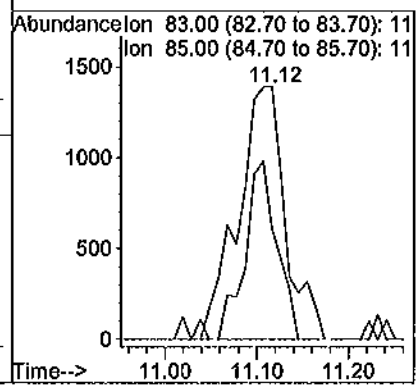


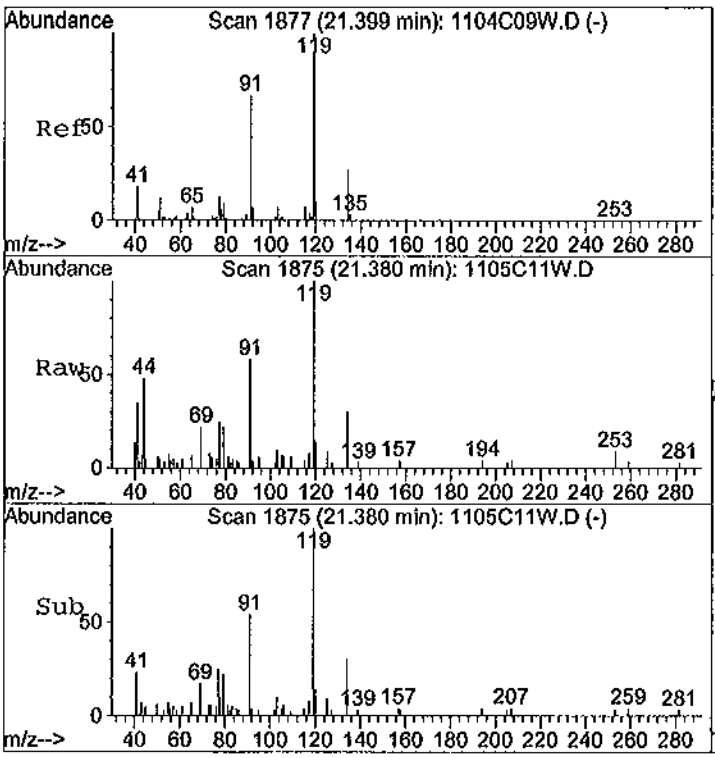


#31
Chloroform
Concen: 0.12847 ppb
RT: 11.12 min Scan# 814
Delta R.T. -0.01 min
Lab File: 1105C11W.D
Acq: 5 Nov 11 18:31

Tgt Ion: 83 Resp: 4995

Ion	Ratio	Lower	Upper
83	100		
85	44.0	44.7	83.1#

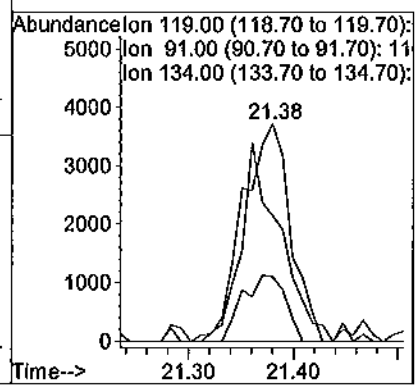




#83
Tert-Butylbenzene
Concen: 0.16145 ppb
RT: 21.38 min Scan# 1875
Delta R.T. -0.02 min
Lab File: 1105C11W.D
Acq: 5 Nov 11 18:31

Tgt Ion:119 Resp: 11822

Ion	Ratio	Lower	Upper
119	100		
91	57.8	46.6	86.6
134	29.6	18.7	34.7



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C11W.D Vial: 1
Acq On : 5 Nov 11 18:31 Operator: STC
Sample : AY50005W01 Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:46 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1331266	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.05	TIC	1269387	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1253511	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

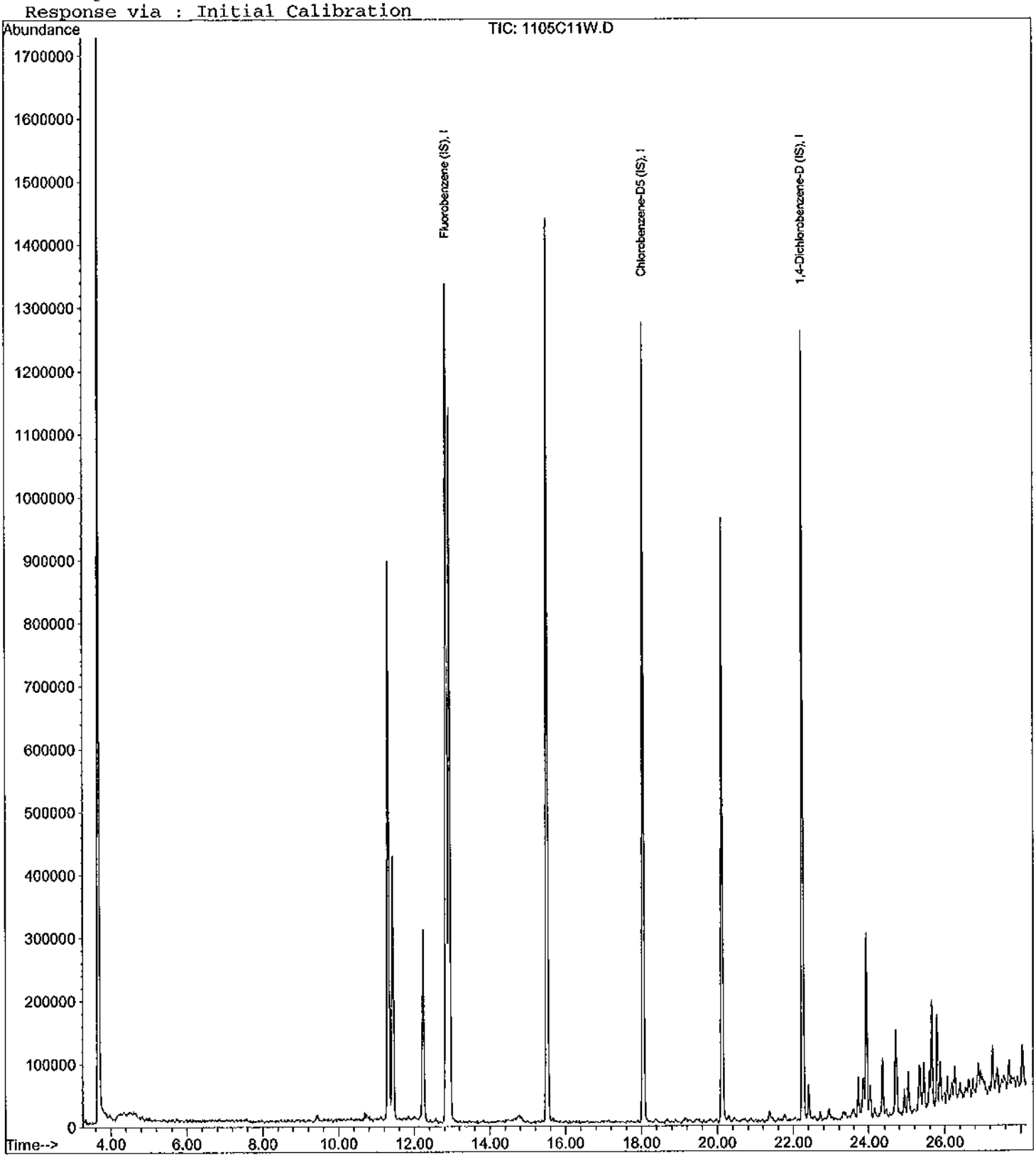
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C11W.D Vial: 1
Acq On : 5 Nov 11 18:31 Operator: STC
Sample : AY50005W01 Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:46 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA METHOD 8260B
Volatile Organic Compounds
Calibration Data

APPL, INC.

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 11/04/11
Matrix: Instrument: Chico Initials:

		Compound	0.3	0.5	1	2	5	10	20	40	100		Avg	%RSD		r
			1104C04W.D	1104C05W.D	1104C06W.D	1104C07W.D	1104C08W.D	1104C09W.D	1104C10W.D	1104C11W.D	1104C12W.D					
1	I	Fluorobenzene (IS)	ISTD													
2	TM	Dichlorodifluoromethane		0.8203	0.7786	0.8343	0.6533	0.8377	0.8642	1.005	0.9017		0.84	12	TM	
3	TM	Freon 114		0.7810	0.6563	0.6257	0.5963	0.7144	0.6619	0.7653	0.7274		0.69	9.6	TM	
4	TM**	Chloromethane	1.273	1.294	1.122	0.9987	1.107	0.9571	0.9515	1.017	1.024		1.1	12	TM**	✓
5	TM*	Vinyl chloride	1.017	0.8062	0.9171	0.7933	0.9243	0.8889	0.8400	0.8838	0.7832		0.87	8.7	TM*	✓
6	TM	1,3-Butadiene													TM	
7	TM	Bromomethane		0.5466	0.5350	0.5622	0.5576	0.4723	0.4939	0.4871	0.5280		0.52	6.5	TM	
8	TM	Chloroethane		0.1468	0.1595	0.1305	0.1476	0.1460	0.1286	0.1648	0.1364		0.15	8.9	TM	
9	TM	Dichlorofluoromethane	2.086	1.836	1.758	1.685	1.955	1.731	1.666	1.804	1.657		1.8	8.0	TM	
10	TM	Trichlorofluoromethane	1.177	1.247	1.202	1.200	1.117	1.244	1.155	1.278	1.224		1.2	4.2	TM	
11		Acetonitrile		0.0265	0.0209	0.0186	0.0228	0.0197	0.0204	0.0243			0.02	13		
12	TM	Acrolein	0.0126	0.0095	0.0095	0.0089	0.0099	0.0108	0.0115	0.0116	0.0111		0.01	12	TM	
13	TML	Acetone		0.5173	0.3001	0.1522	0.1136	0.0984	0.0748	0.0831			0.19	85	TML	0.996
14	TM	Freon-113	0.5180	0.6959	0.6470	0.6691	0.6093	0.7054	0.6541	0.7721	0.6988		0.66	11	TM	
15	TM*	1,1-DCE		0.9172	0.7282	0.6314	0.7153	0.6536	0.6031	0.6749	0.6154		0.69	15	TM*	
16	TM	t-Butanol		0.0035	0.0038	0.0026	0.0033	0.0034	0.0034	0.0033			0.00	11	TM	
17	TML	Methyl Acetate		0.3214	0.3178	0.2851	0.2299	0.1879	0.1762	0.1859	0.1838		0.24	27	TML	1.000
18	TML	Iodomethane			0.3261	0.3361	0.3900	0.4347	0.5079	0.5793	0.6347		0.46	26	TML	0.999
19	TM	Acrylonitrile	0.0755	0.0573	0.0867	0.0792	0.0832	0.0712	0.0730	0.0732	0.0673		0.07	12	TM	
20	TML	Methylene chloride	6.662	3.188	1.751	0.9167	0.6969	0.6006	0.5908	0.6006	0.5474		1.7	118	TML	0.999
21	TM	Carbon disulfide	0.6983	0.6197	0.5526	0.4423	0.6771	0.5390	0.5229	0.5785	0.5137		0.57	14	TM	
22	TM	Methyl t-butyl ether (MtBE)	1.210	1.127	1.098	1.055	1.251	1.120	1.065	1.136	1.062		1.1	6.0	TM	
23	TM	Trans-1,2-DCE		0.9172	0.7282	0.6314	0.7153	0.6536	0.6031	0.6749	0.6154		0.69	15	TM	
24	TM	Diisopropyl Ether	2.209	2.032	1.971	1.863	2.346	2.115	2.028	2.012	1.884		2.1	7.5	TM	
25	TM**	1,1-DCA	1.663	1.479	1.496	1.305	1.634	1.440	1.324	1.349	1.245		1.4	10	TM**	✓
26	TM	Vinyl Acetate			0.1362	0.1346	0.0987	0.1146	0.1039	0.1079	0.0997		0.11	14	TM	
27	TM	Ethyl tert Butyl Ether	1.773	1.767	1.709	1.593	1.989	1.793	1.713	1.718	1.562		1.7	7.1	TM	
28	TM	MEK (2-Butanone)			0.4170	0.3115	0.3452	0.3214	0.3018	0.3036	0.2724		0.32	14	TM	
29	TM	Cis-1,2-DCE		1.147	0.9876	0.9207	0.9064	0.8254	0.8055	0.8290	0.7302		0.89	14	TM	
30	TM	2,2-Dichloropropane	1.405	1.569	1.407	1.217	1.470	1.293	1.237	1.233	1.118		1.3	11	TM	
31	TM*	Chloroform	1.397	1.681	1.570	1.416	1.704	1.534	1.487	1.545	1.364		1.5	7.9	TM*	✓
32	TM	Bromochloromethane	0.2439	0.2855	0.3091	0.2465	0.3172	0.2632	0.2733	0.2606	0.2274		0.27	11	TM	
33	S	Dibromofluoromethane(S)	0.8513	0.8765	0.9185	0.8004	0.8512	0.7568	0.7683	1.042	0.9600		0.87	11	S	
34	TM	1,1,1-TCA	1.331	1.576	1.493	1.410	1.670	1.461	1.473	1.410	1.469		1.5	6.7	TM	
35	TM	Cyclohexane	1.009	0.9029	1.029	0.9328	0.9606	0.9467	0.9730	0.8798	0.9394		0.95	5.0	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: _____
Case No: _____ Initial Cal. Date: 11/04/11
Matrix: _____ Instrument: Chico Initials: _____

		Compound	0.3	0.5	1	2	5	10	20	40	100		Avg	%RSD		r
36	TM	1,1-Dichloropropene	1.284	1.003	1.056	1.050	1.139	1.054	1.039	0.9451	0.9838		1.1	9.4	TM	
37	TML	2,2,4-Trimethylpentane		2.380	1.798	1.701	1.570	1.677	1.678	1.446	1.580		1.7	16	TML	0.999
38	S	1,2-DCA-D4(S)	0.8725	0.7074	0.7848	0.6932	0.7648	0.6805	0.6697	0.8325	0.8423		0.76	10	S	
39	TM	Carbon Tetrachloride	0.9592	1.167	1.148	0.9879	1.148	1.188	1.161	1.153	1.244		1.1	8.2	TM	
40	TM	Tert Amyl Methyl Ether	1.611	1.409	1.234	1.174	1.344	1.181	1.228	1.052	1.130		1.3	13	TM	
41	TM	1,2-DCA	1.149	0.8266	0.8636	0.8047	0.9407	0.8568	0.8173	0.7530	0.7842		0.87	14	TM	
42	TM	Benzene	3.004	3.057	2.758	2.596	2.877	2.607	2.598	2.318	2.501		2.7	9.0	TM	
43	TM	TCE	0.7995	0.8821	0.8688	0.7890	0.9676	0.8726	0.8612	0.8183	0.8378		0.86	6.3	TM	
44	TM	2-Pentanone	0.1540	0.1452	0.1447	0.1394	0.1700	0.1601	0.1606	0.1502	0.1549		0.15	6.2	TM	
45	TM*	1,2-Dichloropropane	0.6561	0.5852	0.6018	0.6039	0.6714	0.6241	0.6280	0.5876	0.5893		0.62	5.0	TM*	✓
46	TM	Bromodichloromethane	0.9744	0.9437	0.9067	0.7807	1.015	0.9484	0.9367	0.9244	0.9235		0.93	6.9	TM	
47	TM	Methyl Cyclohexane	0.8200	0.9241	0.7771	0.8829	0.8642	0.9381	0.9383	0.8797	0.9284		0.88	6.4	TM	
48	TM	Dibromomethane		0.2535	0.3727	0.2911	0.3909	0.3279	0.3290	0.3132	0.3112		0.32	13	TM	
49	TMQ	2-Chloroethyl vinyl ether	0.2390	0.1445	0.1062	0.1563	0.1938	0.1563	0.1709	0.1585	0.1709		0.17	22	TMQ	1.000
50	TM	1-Bromo-2-chloroethane	0.4932	0.4441	0.6188	0.4869	0.6377	0.5642	0.5837	0.5106	0.5203		0.54	12	TM	
51	TM	Cis-1,3-Dichloropropene	0.8316	0.6857	0.7235	0.6927	0.8886	0.8130	0.7369	0.7338	0.7333		0.76	9.0	TM	
52	TM*	Toluene	3.168	3.066	3.081	2.669	3.253	2.773	2.638	2.556	2.592		2.9	9.5	TM*	✓
53	TM	Trans-1,3-Dichloropropene	0.5625	0.5719	0.5136	0.5343	0.6799	0.5865	0.5777	0.5859	0.5852		0.58	8.0	TM	
54	TM	1,1,2-TCA	0.3007	0.3033	0.3189	0.2217	0.3438	0.2787	0.2635	0.2719	0.2614		0.28	13	TM	
55	I	Chlorobenzene-D5 (IS)	ISTD													
56	S	Toluene-D8(S)	3.706	3.419	3.827	3.414	3.733	3.633	3.248	4.084	4.083		3.7	7.9	S	
57	TM	1,2-EDB	0.5758	0.5216	0.4877	0.5085	0.5640	0.5215	0.5541	0.5283	0.5240		0.53	5.3	TM	
58	TM	Tetrachloroethene		1.457	1.366	1.384	1.386	1.315	1.104	1.069	1.057		1.3	13	TM	
59	TM	1-Chlorohexane	1.492	1.395	1.285	1.343	1.353	1.340	1.335	1.311	1.345		1.4	4.4	TM	
60	TM	1,1,1,2-Tetrachloroethane	0.9141	0.7592	0.9299	0.8543	0.9809	1.044	0.9994	0.9859	0.9825		0.94	9.3	TM	
61	TM	m&p-Xylene	2.087	1.798	1.638	1.934	1.887	1.846	1.681	1.701	1.750		1.8	7.8	TM	
62	TM	o-Xylene	1.865	1.433	1.718	1.820	1.853	1.779	1.714	1.690	1.684		1.7	7.5	TM	
63	TM	Styrene	3.167	2.407	2.696	2.785	2.853	2.770	2.677	2.615	2.604		2.7	7.6	TM	
64	S	4-Bromofluorobenzene(S)	1.434	1.328	1.259	1.252	1.220	1.144	1.142	1.480	1.435		1.3	9.8	S	
65	TM	2-Hexanone			0.2308	0.2343	0.2091	0.2098	0.1969	0.1900	0.1766		0.21	10	TM	
66	TM	1,3-Dichloropropane	0.6843	0.8877	0.8291	0.9278	0.9606	1.016	0.8892	0.8393	0.8096		0.87	11	TM	
67	TM	Dibromochloromethane		0.6557	0.5976	0.7618	0.7728	0.7772	0.7616	0.7979	0.8144		0.74	10	TM	
68	TM**	Chlorobenzene	3.209	2.710	2.562	2.560	2.907	2.827	2.608	2.502	2.535		2.7	8.5	TM**	✓
69	TM*	Ethylbenzene	5.443	4.383	4.940	4.855	4.849	4.809	4.474	4.418	4.473		4.7	7.2	TM*	✓
70	TM**Q	Bromoform	0.0982	0.1161	0.2855	0.2791	0.3149	0.3757	0.3780	0.3873	0.4250		0.30	40	TM**Q	1.00

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 11/04/11
Matrix: Instrument: Chico Initials:

		Compound	0.3	0.5	1	2	5	10	20	40	100		Avg	%RSD		r
71	I	1,4-Dichlorobenzene-D (IS)	ISTD													
72	TML	MIBK (methyl isobutyl ketone)			0.8091	0.7573	0.6506	0.6189	0.6055	0.5113	0.5082		0.64	18	TML	0.999
73	TM	Isopropylbenzene	10.5	9.805	9.228	9.722	9.782	9.470	9.080	8.410	8.017		9.3	8.1	TM	
74	TM**	1,1,2,2-Tetrachloroethane	0.8400	0.8839	0.8295	0.8546	0.7757	0.7733	0.7782	0.7323	0.6778		0.79	8.1	TM**	✓
75	TMQ	1,2,3-Trichloropropane		0.2712	0.1790	0.1163	0.1169	0.1211	0.0977	0.0902	0.0902		0.14	46	TMQ	1.000
76	TML	t-1,4-Dichloro-2-Butene		0.2773	0.2020	0.1653	0.1680	0.2155	0.2040	0.2008	0.1927		0.20	17	TML	1.000
77	TM	Bromobenzene	2.093	2.269	2.265	2.259	2.124	1.889	1.910	1.868	1.776		2.1	9.4	TM	
78	TM	n-Propylbenzene	12.6	11.4	10.7	11.3	11.0	10.4	9.937	9.363	8.950		11	11	TM	
79	TM	4-Ethyltoluene	7.814	7.927	7.288	8.430	7.835	7.122	7.077	6.724	6.681		7.4	8.0	TM	
80	TM	2-Chlorotoluene	7.614	8.425	7.061	7.701	7.654	6.770	6.698	6.041	5.919		7.1	12	TM	
81	TM	1,3,5-Trimethylbenzene	8.127	9.155	8.042	7.853	8.333	7.477	7.461	6.875	6.428		7.8	10	TM	
82	TM	4-Chlorotoluene	7.151	6.504	6.974	6.759	6.745	5.670	5.607	5.586	5.130		6.2	12	TM	
83	TM	Tert-Butylbenzene	8.626	8.541	8.833	8.728	8.766	8.023	7.926	7.548	7.088		8.2	7.5	TM	
84	TM	1,2,4-Trimethylbenzene	8.426	8.105	7.279	7.840	8.467	7.567	7.412	6.853	6.568		7.6	8.7	TM	
85	TM	Sec-Butylbenzene	10.8	10.8	9.448	9.951	10.8	9.961	9.791	9.030	8.879		9.9	7.6	TM	
86	TM	p-Isopropyltoluene	10.1	9.576	8.346	8.994	9.281	8.612	8.371	7.710	7.732		8.7	9.3	TM	
87	TM	Benzyl Chloride	1.764	1.570	1.170	1.285	1.524	1.466	1.538	1.505	1.513		1.5	11	TM	
88	TM	1,3-DCB	4.196	4.374	3.982	3.796	4.486	4.054	3.983	3.688	3.697		4.0	7.0	TM	
89	TM	1,4-DCB	3.854	3.998	3.642	3.642	4.095	3.813	3.735	3.547	3.639		3.8	4.8	TM	
90	TMQ	Hexachloroethane		0.7799	0.9495	0.8535	1.439	1.534	1.650	1.647	1.709		1.3	30	TMQ	1.000
91	TM	n-Butylbenzene	8.779	8.380	7.542	6.887	8.021	6.892	6.783	6.470	6.513		7.4	12	TM	
92	TM	1,2-DCB	3.058	3.418	3.390	3.493	3.743	3.405	3.213	3.116	3.181		3.3	6.4	TM	
93	TM	1,2-Dibromo-3-chloropropane		0.1040	0.1207	0.0987	0.1452	0.1086	0.1291	0.1275	0.1337		0.12	13	TM	
94	TML	1,2,4-Trichlorobenzene		0.5050	0.4280	0.2730	0.3763	0.3596	0.3118	0.2709	0.2650		0.35	25	TML	0.999
95	TMQ	Hexachlorobutadiene	2.174	1.894	1.693	1.446	1.499	1.430	1.293	1.240	1.273		1.5	20	TMQ	1.000
96	TM	Naphthalene	3.669	3.853	4.033	3.155	3.882	3.693	3.444	3.095	3.135		3.6	10	TM	
97	TMQ	1,2,3-Trichlorobenzene	1.271	0.9740	0.8179	0.9705	1.037	0.9606	0.8457	0.8040	0.7725		0.94	16	TMQ	1.000
98	TML	Dibromochlorobenzene													TML	
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C04W.D Vial: 1
Acq On : 4 Nov 11 12:17 Operator: STC
Sample : VOL STD 11-04-11@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.87	96	373056	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	18.07	117	251968	25.00000 ppb		0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	137408	25.00000 ppb		-0.01
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.45	111	7622	0.58751 ppb		-0.01
Spiked Amount 21.097			Recovery = 2.787%			
38) 1,2-DCA-D4(S)	12.26	65	7812	0.68806 ppb		0.00
Spiked Amount 21.225			Recovery = 3.241%			
56) Toluene-D8(S)	15.52	98	22413	0.60377 ppb		-0.02
Spiked Amount 25.808			Recovery = 2.340%			
64) 4-Bromofluorobenzene(S)	20.15	95	8671	0.66219 ppb		0.00
Spiked Amount 25.459			Recovery = 2.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.10	85	2521	0.20188 ppb		94
3) Freon 114	4.34	85	1171	0.11356 ppb	#	70
4) Chloromethane	4.56	50	5699	0.35273 ppb	#	76
5) Vinyl chloride	4.84	62	4553	0.34964 ppb		84
7) Bromomethane	5.74	94	3479	0.44592 ppb		87
8) Chloroethane	5.94	64	526	0.24307 ppb		92
9) Dichlorofluoromethane	6.03	67	9337	0.34808 ppb	#	75
10) Trichlorofluoromethane	6.56	101	5271	0.29315 ppb	#	57
11) Acetonitrile	7.69	41	6625	20.29369 ug/l		100
12) Acrolein	7.19	56	2827	17.89727 ppb	#	66
13) Acetone	7.30	43	4047	3.27164 ppb		96
14) Freon-113	7.48	101	2319	0.23430 ppb		86
15) 1,1-DCE	7.71	96	4680	0.45297 ppb	#	67
16) t-Butanol	7.78	59	648	13.08262 ppb	#	80
18) Iodomethane	8.21	142	1677	2.45643 ppb	#	29
19) Acrylonitrile	8.60	53	338	0.30580 ppb		90
20) Methylene chloride	8.49	84	29825	1.47076 ppb		86
21) Carbon disulfide	8.59	76	3126	0.36652 ppb		100
22) Methyl t-butyl ether (MtBE	8.95	73	5416	0.32263 ppb	#	59
23) Trans-1,2-DCE	7.71	96	4680	0.45297 ppb	#	63
24) Diisopropyl Ether	9.79	45	9890	0.32313 ppb	#	73
25) 1,1-DCA	9.82	63	7444	0.34711 ppb	#	84
26) Vinyl Acetate	9.45	43	1320	0.77833 ppb	#	59
27) Ethyl tert Butyl Ether	10.47	59	7935	0.30647 ppb	#	70
28) MEK (2-Butanone)	10.47	43	2503	0.51658 ppb	#	70
29) Cis-1,2-DCE	10.85	96	6279	0.47070 ppb	#	23
30) 2,2-Dichloropropane	10.86	77	6290	0.31748 ppb	#	84
31) Chloroform	11.11	83	6253	0.27534 ppb		98
32) Bromochloromethane	11.34	128	1092	0.27139 ppb	#	1
34) 1,1,1-TCA	11.88	97	5959	0.27034 ppb	#	86
35) Cyclohexane	12.04	56	4517	0.31778 ppb	#	35
36) 1,1-Dichloropropene	12.15	75	5750	0.36295 ppb	#	75
37) 2,2,4-Trimethylpentane	12.21	57	12107	0.42595 ppb	#	79
39) Carbon Tetrachloride	12.34	117	4294	0.25502 ppb	#	88
40) Tert Amyl Methyl Ether	12.37	73	7211	0.38274 ppb	#	70
41) 1,2-DCA	12.41	62	5143	0.39789 ppb		99
42) Benzene	12.53	78	13448	0.33355 ppb		90
43) TCE	13.57	95	3579	0.28045 ppb	#	57
44) 2-Pentanone	13.23	43	34461	15.07079 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C04W.D Vial: 1
Acq On : 4 Nov 11 12:17 Operator: STC
Sample : VOL STD 11-04-11@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	1,2-Dichloropropane	13.78	63	2937	0.31932 ppb	#	84
46)	Bromodichloromethane	14.14	83	4362	0.31492 ppb	#	82
47)	Methyl Cyclohexane	13.87	83	3671	0.27840 ppb		92
48)	Dibromomethane	14.19	93	1070	0.22153 ppb	#	70
49)	2-Chloroethyl vinyl ether	14.59	63	1070	0.20368 ppb	#	85
50)	1-Bromo-2-chloroethane	14.92	63	2208	0.27404 ppb		90
51)	Cis-1,3-Dichloropropene	15.02	75	3723	0.32832 ppb		92
52)	Toluene	15.67	91	14182	0.33158 ppb		82
53)	Trans-1,3-Dichloropropene	15.84	75	2518	0.29219 ppb	#	82
54)	1,1,2-TCA	16.09	83	1346	0.31664 ppb	#	65
57)	1,2-EDB	17.37	107	1741	0.32487 ppb	#	1
58)	Tetrachloroethene	16.82	164	5236	0.40996 ppb	#	75
59)	1-Chlorohexane	17.74	91	4512	0.33029 ppb		96
60)	1,1,1,2-Tetrachloroethane	18.19	131	2764	0.29209 ppb	#	71
61)	m&p-Xylene	18.40	106	12622	0.69049 ppb		96
62)	o-Xylene	19.13	106	5639	0.32370 ppb		86
63)	Styrene	19.15	104	9576	0.34798 ppb	#	61
65)	2-Hexanone	16.13	43	303	0.14539 ppb	#	19
66)	1,3-Dichloropropane	16.53	76	2069	0.23555 ppb		87
67)	Dibromochloromethane	17.02	129	1473	0.19687 ppb		82
68)	Chlorobenzene	18.13	112	9702	0.35478 ppb		92
69)	Ethylbenzene	18.25	91	16457	0.34461 ppb		85
70)	Bromoform	19.68	173	297	0.41115 ppb	#	73
72)	MIBK (methyl isobutyl keto	14.69	43	1837	-1.06803 ppb		84
73)	Isopropylbenzene	19.76	105	17317	0.33750 ppb		91
74)	1,1,2,2-Tetrachloroethane	19.92	83	1385	0.31740 ppb	#	58
75)	1,2,3-Trichloropropane	20.20	110	168	14228.99424 ppb		94
76)	t-1,4-Dichloro-2-Butene	20.25	53	204	-0.16580 ppb	#	1
77)	Bromobenzene	20.51	156	3451	0.30623 ppb		84
78)	n-Propylbenzene	20.48	91	20811	0.35632 ppb		89
79)	4-Ethyltoluene	20.67	105	12885	0.31538 ppb		95
80)	2-Chlorotoluene	20.77	91	12555	0.32181 ppb		93
81)	1,3,5-Trimethylbenzene	20.75	105	13400	0.31457 ppb		91
82)	4-Chlorotoluene	20.85	91	11792	0.34403 ppb		94
83)	Tert-Butylbenzene	21.40	119	14224	0.31441 ppb	#	74
84)	1,2,4-Trimethylbenzene	21.45	105	13893	0.33203 ppb		88
85)	Sec-Butylbenzene	21.78	105	17783	0.32528 ppb		95
86)	p-Isopropyltoluene	22.02	119	16629	0.34595 ppb		90
87)	Benzyl Chloride	22.45	91	2909	0.35717 ppb	#	87
88)	1,3-DCB	22.16	146	6918	0.31246 ppb	#	59
89)	1,4-DCB	22.31	146	6355	0.30638 ppb	#	89
90)	Hexachloroethane	23.63	117	1330	0.70462 ppb	#	50
91)	n-Butylbenzene	22.73	91	14476	0.35770 ppb		82
92)	1,2-DCB	22.96	146	5043	0.27509 ppb		95
93)	1,2-Dibromo-3-chloropropan	24.11	155	66	0.09928 ppb	#	1
94)	1,2,4-Trichlorobenzene	25.62	145	6430	2.77968 ppb	#	1
95)	Hexachlorobutadiene	25.89	223	3585	-0.09482 ppb	#	63
96)	Naphthalene	26.00	128	6049	0.30993 ppb	#	91
97)	1,2,3-Trichlorobenzene	26.37	180	2096	1297.24030 ppb		81

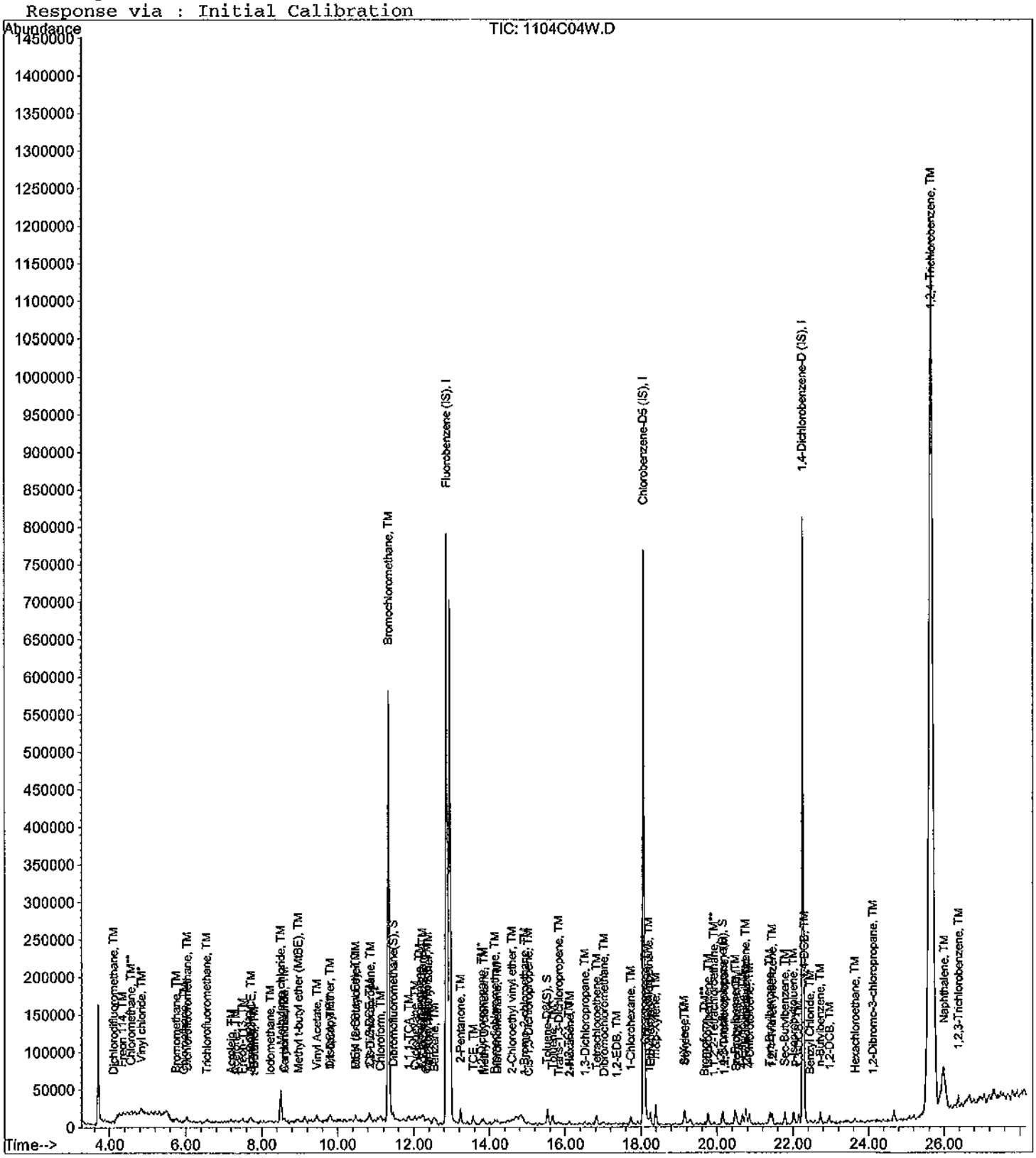
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1104C04W.D Vial: 1
Acq On : 4 Nov 11 12:17 Operator: STC
Sample : VOL STD 11-04-11@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C05W.D Vial: 1
Acq On : 4 Nov 11 13:00 Operator: STC
Sample : VOL STD 11-04-11@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	379456	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	18.07	117	274368	25.00000 ppb		0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	122072	25.00000 ppb		0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.45	111	13304	1.00818 ppb		0.00
Spiked Amount 21.097			Recovery =	4.778%		
38) 1,2-DCA-D4(S)	12.26	65	10737	0.92974 ppb		0.00
Spiked Amount 21.225			Recovery =	4.382%		
56) Toluene-D8(S)	15.54	98	37528	0.92842 ppb		0.00
Spiked Amount 25.808			Recovery =	3.596%		
64) 4-Bromofluorobenzene(S)	20.15	95	14569	1.02177 ppb		0.00
Spiked Amount 25.459			Recovery =	4.014%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.09	85	6225	0.49007 ppb	#	56
3) Freon 114	4.34	85	5927	0.56509 ppb	#	40
4) Chloromethane	4.57	50	9824	0.59779 ppb		89
5) Vinyl chloride	4.86	62	6118	0.46190 ppb		99
7) Bromomethane	5.77	94	4148	0.52270 ppb	#	53
8) Chloroethane	5.93	64	1114	0.50610 ppb	#	77
9) Dichlorofluoromethane	6.04	67	13931	0.51059 ppb		88
10) Trichlorofluoromethane	6.57	101	9466	0.51758 ppb	#	57
11) Acetonitrile	7.68	41	10055	30.28098 ug/l		100
12) Acrolein	7.19	56	3593	22.36303 ppb		87
13) Acetone	7.31	43	3926	3.12029 ppb	#	73
14) Freon-113	7.50	101	5281	0.52456 ppb		85
15) 1,1-DCE	7.69	96	6961	0.66237 ppb		70
16) t-Butanol	7.79	59	1332	26.43849 ppb		95
17) Methyl Acetate	8.23	43	2439	0.29578 ppb	#	63
18) Iodomethane	8.20	142	2398	2.52742 ppb	#	93
19) Acrylonitrile	8.59	53	435	0.38692 ppb		85
20) Methylene chloride	8.51	84	24194	0.72008 ppb		88
21) Carbon disulfide	8.59	76	4703	0.54211 ppb	#	88
22) Methyl t-butyl ether (MtBE	8.93	73	8555	0.50103 ppb	#	86
23) Trans-1,2-DCE	7.69	96	6961	0.66237 ppb	#	66
24) Diisopropyl Ether	9.78	45	15422	0.49537 ppb	#	95
25) 1,1-DCA	9.82	63	11227	0.51467 ppb	#	83
26) Vinyl Acetate	9.46	43	1673	0.96984 ppb	#	67
27) Ethyl tert Butyl Ether	10.49	59	13411	0.50924 ppb		99
28) MEK (2-Butanone)	10.45	43	1614	0.32749 ppb	#	73
29) Cis-1,2-DCE	10.85	96	8702	0.64134 ppb		90
30) 2,2-Dichloropropane	10.84	77	11904	0.59071 ppb	#	87
31) Chloroform	11.13	83	12758	0.55231 ppb		99
32) Bromochloromethane	11.35	128	2167	0.52948 ppb	#	34
34) 1,1,1-TCA	11.87	97	11964	0.53361 ppb	#	72
35) Cyclohexane	12.04	56	6852	0.47392 ppb	#	83
36) 1,1-Dichloropropene	12.14	75	7611	0.47232 ppb		90
37) 2,2,4-Trimethylpentane	12.22	57	18060	0.66787 ppb	#	90
39) Carbon Tetrachloride	12.33	117	8856	0.51708 ppb		97
40) Tert Amyl Methyl Ether	12.39	73	10694	0.55804 ppb	#	84
41) 1,2-DCA	12.41	62	6273	0.47713 ppb		97
42) Benzene	12.54	78	23197	0.56566 ppb	#	88
43) TCE	13.56	95	6694	0.51570 ppb	#	76

(#) = qualifier out of range (m) = manual integration

Data File : M:\CHICO\DATA\C111104\1104C05W.D Vial: 1
Acq On : 4 Nov 11 13:00 Operator: STC
Sample : VOL STD 11-04-11@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	2-Pentanone	13.23	43	55093	23.68739	ppb		98
45)	1,2-Dichloropropane	13.80	63	4441	0.47470	ppb		97
46)	Bromodichloromethane	14.15	83	7162	0.50836	ppb		94
47)	Methyl Cyclohexane	13.86	83	7013	0.52288	ppb		100
48)	Dibromomethane	14.20	93	1924	0.39162	ppb	#	74
49)	2-Chloroethyl vinyl ether	14.62	63	1097	0.20735	ppb	#	85
50)	1-Bromo-2-chloroethane	14.93	63	3370	0.41121	ppb	#	56
51)	Cis-1,3-Dichloropropene	15.04	75	5204	0.45118	ppb	#	75
52)	Toluene	15.66	91	23272	0.53492	ppb		98
53)	Trans-1,3-Dichloropropene	15.83	75	4340	0.49513	ppb		83
54)	1,1,2-TCA	16.13	83	2302	0.53240	ppb	#	56
57)	1,2-EDB	17.37	107	2862	0.49045	ppb	#	81
58)	Tetrachloroethene	16.83	164	7995	0.57488	ppb	#	78
59)	1-Chlorohexane	17.74	91	7655	0.51461	ppb	#	81
60)	1,1,1,2-Tetrachloroethane	18.20	131	4166	0.40430	ppb	#	77
61)	m&p-Xylene	18.38	106	19729	0.99117	ppb		65
62)	o-Xylene	19.14	106	7864	0.41457	ppb		87
63)	Styrene	19.15	104	13209	0.44081	ppb		94
65)	2-Hexanone	16.15	43	1303	0.57416	ppb	#	59
66)	1,3-Dichloropropane	16.53	76	4871	0.50927	ppb		98
67)	Dibromochloromethane	17.00	129	3598	0.44162	ppb		79
68)	Chlorobenzene	18.14	112	14870	0.49937	ppb		87
69)	Ethylbenzene	18.25	91	24052	0.46253	ppb		89
70)	Bromoform	19.69	173	637	0.48847	ppb	#	34
72)	MIBK (methyl isobutyl keto	14.70	43	2659	-0.64769	ppb		97
73)	Isopropylbenzene	19.76	105	23939	0.52518	ppb	#	88
74)	1,1,2,2-Tetrachloroethane	19.94	83	2158	0.55668	ppb	#	89
75)	1,2,3-Trichloropropane	20.19	110	662	0.06423	ppb	#	40
76)	t-1,4-Dichloro-2-Butene	20.27	53	677	0.35958	ppb	#	52
77)	Bromobenzene	20.51	156	5539	0.55327	ppb		97
78)	n-Propylbenzene	20.47	91	27836	0.53648	ppb	#	84
79)	4-Ethyltoluene	20.66	105	19354	0.53324	ppb		94
80)	2-Chlorotoluene	20.77	91	20569	0.59346	ppb		85
81)	1,3,5-Trimethylbenzene	20.75	105	22352	0.59065	ppb		95
82)	4-Chlorotoluene	20.85	91	15880	0.52150	ppb		84
83)	Tert-Butylbenzene	21.40	119	20852	0.51882	ppb		92
84)	1,2,4-Trimethylbenzene	21.45	105	19787	0.53230	ppb		87
85)	Sec-Butylbenzene	21.79	105	26453	0.54466	ppb		91
86)	p-Isopropyltoluene	22.02	119	23380	0.54751	ppb		99
87)	Benzyl Chloride	22.46	91	3833	0.52975	ppb	#	66
88)	1,3-DCB	22.16	146	10678	0.54287	ppb		96
89)	1,4-DCB	22.33	146	9762	0.52976	ppb		86
90)	Hexachloroethane	23.60	117	1904	0.79427	ppb	#	57
91)	n-Butylbenzene	22.72	91	20460	0.56908	ppb	#	83
92)	1,2-DCB	22.96	146	8345	0.51240	ppb		98
93)	1,2-Dibromo-3-chloropropan	24.17	155	254	0.43006	ppb	#	7
94)	1,2,4-Trichlorobenzene	25.64	145	1233	-0.72416	ppb	#	50
95)	Hexachlorobutadiene	25.89	223	4625	0.14590	ppb	#	80
96)	Naphthalene	25.99	128	9406	0.54248	ppb	#	82
97)	1,2,3-Trichlorobenzene	26.36	180	2378	0.07698	ppb	#	84

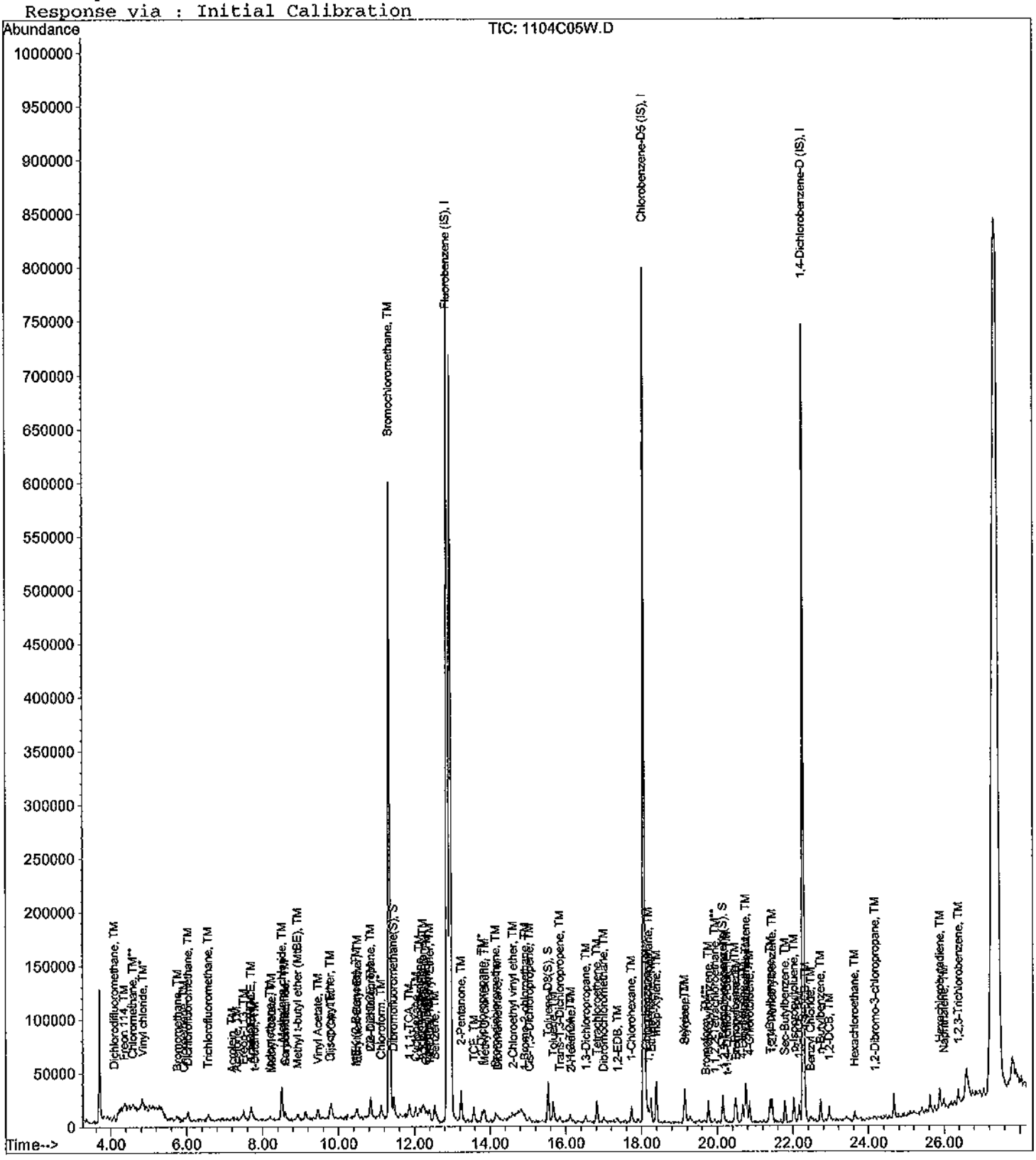
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1104C05W.D Vial: 1
Acq On : 4 Nov 11 13:00 Operator: STC
Sample : VOL STD 11-04-11@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C06W.D Vial: 1
Acq On : 4 Nov 11 13:43 Operator: STC
Sample : VOL STD 11-04-11@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.87	96	363392	25.00000	ppb		0.00
55) Chlorobenzene-D5 (IS)	18.07	117	242560	25.00000	ppb		0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	120560	25.00000	ppb		0.00
System Monitoring Compounds							
33) Dibromofluoromethane(S)	11.46	111	26701	2.11286	ppb		0.00
Spiked Amount 21.097			Recovery = 10.016%				
38) 1,2-DCA-D4(S)	12.25	65	22815	2.06292	ppb		-0.01
Spiked Amount 21.225			Recovery = 9.720%				
56) Toluene-D8(S)	15.53	98	74261	2.07808	ppb		-0.01
Spiked Amount 25.808			Recovery = 8.052%				
64) 4-Bromofluorobenzene(S)	20.15	95	24424	1.93755	ppb		0.00
Spiked Amount 25.459			Recovery = 7.612%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.09	85	11317	0.93034	ppb		88
3) Freon 114	4.37	85	9540	0.94976	ppb		92
4) Chloromethane	4.58	50	16314	1.03659	ppb		99
5) Vinyl chloride	4.84	62	13331	1.05097	ppb	#	68
7) Bromomethane	5.75	94	7776	1.02318	ppb		96
8) Chloroethane	5.96	64	2319	1.10012	ppb		92
9) Dichlorofluoromethane	6.03	67	25557	0.97810	ppb		100
10) Trichlorofluoromethane	6.57	101	17467	0.99729	ppb		96
11) Acetonitrile	7.69	41	15197	47.78941	ug/l		100
12) Acrolein	7.19	56	6910	44.90944	ppb		96
13) Acetone	7.29	43	4362	3.62007	ppb	#	1
14) Freon-113	7.50	101	9404	0.97539	ppb	#	89
15) 1,1-DCE	7.71	96	10585	1.05174	ppb		91
16) t-Butanol	7.80	59	2733	56.64454	ppb	#	82
17) Methyl Acetate	8.23	43	4620	1.15730	ppb	#	88
18) Iodomethane	8.19	142	4740	2.78908	ppb		87
19) Acrylonitrile	8.58	53	1260	1.17027	ppb	#	36
20) Methylene chloride	8.50	84	25453	1.01144	ppb		98
21) Carbon disulfide	8.59	76	8033	0.96689	ppb	#	77
22) Methyl t-butyl ether (MtBE	8.92	73	15960	0.97603	ppb	#	80
23) Trans-1,2-DCE	7.71	96	10585	1.05174	ppb		92
24) Diisopropyl Ether	9.79	45	28656	0.96115	ppb	#	86
25) 1,1-DCA	9.83	63	21752	1.04124	ppb	#	87
26) Vinyl Acetate	9.46	43	1980	1.19855	ppb		85
27) Ethyl tert Butyl Ether	10.47	59	24840	0.98491	ppb		92
28) MEK (2-Butanone)	10.48	43	6062	1.28438	ppb	#	91
29) Cis-1,2-DCE	10.85	96	14356	1.10481	ppb	#	64
30) 2,2-Dichloropropane	10.85	77	20456	1.05995	ppb	#	85
31) Chloroform	11.13	83	22815	1.03135	ppb		92
32) Bromochloromethane	11.34	128	4493	1.14633	ppb	#	72
34) 1,1,1-TCA	11.87	97	21709	1.01106	ppb	#	76
35) Cyclohexane	12.03	56	14954	1.08002	ppb	#	74
36) 1,1-Dichloropropene	12.14	75	15352	0.99482	ppb	#	88
37) 2,2,4-Trimethylpentane	12.22	57	26136	1.05657	ppb		96
39) Carbon Tetrachloride	12.34	117	16684	1.01720	ppb	#	75
40) Tert Amyl Methyl Ether	12.37	73	17931	0.97704	ppb	#	92
41) 1,2-DCA	12.41	62	12553	0.99700	ppb		96
42) Benzene	12.53	78	40089	1.02078	ppb		93
43) TCE	13.58	95	12629	1.01594	ppb	#	76

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C06W.D Vial: 1
Acq On : 4 Nov 11 13:43 Operator: STC
Sample : VOL STD 11-04-11@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	2-Pentanone	13.24	43	105157	47.21120	ppb	#	88
45)	1,2-Dichloropropane	13.80	63	8747	0.97629	ppb	#	94
46)	Bromodichloromethane	14.15	83	13180	0.97687	ppb	#	77
47)	Methyl Cyclohexane	13.85	83	11296	0.87945	ppb	#	70
48)	Dibromomethane	14.20	93	5418	1.15155	ppb	#	59
49)	2-Chloroethyl vinyl ether	14.60	63	1544	0.42607	ppb	#	46
50)	1-Bromo-2-chloroethane	14.91	63	8994	1.14597	ppb		99
51)	Cis-1,3-Dichloropropene	15.05	75	10517	0.95212	ppb	#	60
52)	Toluene	15.68	91	44786	1.07495	ppb		88
53)	Trans-1,3-Dichloropropene	15.83	75	7466	0.88941	ppb		83
54)	1,1,2-TCA	16.10	83	4636	1.11960	ppb	#	53
57)	1,2-EDB	17.36	107	4732	0.91725	ppb	#	81
58)	Tetrachloroethene	16.83	164	13253	1.07791	ppb		92
59)	1-Chlorohexane	17.74	91	12463	0.94771	ppb	#	71
60)	1,1,1,2-Tetrachloroethane	18.19	131	9022	0.99038	ppb	#	78
61)	m&p-Xylene	18.39	106	31780	1.80597	ppb		99
62)	o-Xylene	19.13	106	16664	0.99369	ppb		85
63)	Styrene	19.15	104	26160	0.98748	ppb		92
65)	2-Hexanone	16.14	43	2239	1.11599	ppb	#	72
66)	1,3-Dichloropropane	16.54	76	8044	0.95130	ppb	#	77
67)	Dibromochloromethane	17.01	129	5798	0.80497	ppb	#	65
68)	Chlorobenzene	18.15	112	24859	0.94429	ppb		88
69)	Ethylbenzene	18.24	91	47931	1.04259	ppb	#	81
70)	Bromoform	19.69	173	2770	1.10330	ppb	#	70
72)	MIBK (methyl isobutyl keto	14.72	43	3902	-0.11892	ppb	#	61
73)	Isopropylbenzene	19.77	105	44501	0.98851	ppb		95
74)	1,1,2,2-Tetrachloroethane	19.93	83	4000	1.04479	ppb	#	49
75)	1,2,3-Trichloropropane	20.19	110	863	0.54942	ppb	#	60
76)	t-1,4-Dichloro-2-Butene	20.25	53	974	0.68726	ppb	#	72
77)	Bromobenzene	20.52	156	10924	1.10484	ppb		95
78)	n-Propylbenzene	20.48	91	51506	1.00512	ppb		93
79)	4-Ethyltoluene	20.68	105	35145	0.98045	ppb		95
80)	2-Chlorotoluene	20.77	91	34051	0.99476	ppb		92
81)	1,3,5-Trimethylbenzene	20.76	105	38780	1.03761	ppb		88
82)	4-Chlorotoluene	20.84	91	33630	1.11826	ppb		93
83)	Tert-Butylbenzene	21.40	119	42596	1.07314	ppb		98
84)	1,2,4-Trimethylbenzene	21.45	105	35102	0.95614	ppb		92
85)	Sec-Butylbenzene	21.79	105	45560	0.94983	ppb	#	86
86)	p-Isopropyltoluene	22.02	119	40247	0.95432	ppb		96
87)	Benzyl Chloride	22.47	91	5644	0.78983	ppb	#	75
88)	1,3-DCB	22.16	146	19204	0.98858	ppb		90
89)	1,4-DCB	22.32	146	17561	0.96494	ppb	#	78
90)	Hexachloroethane	23.63	117	4579	1.13327	ppb		91
91)	n-Butylbenzene	22.74	91	36370	1.02430	ppb		87
92)	1,2-DCB	22.95	146	16350	1.01651	ppb		84
93)	1,2-Dibromo-3-chloropropan	24.18	155	582	0.99778	ppb	#	59
94)	1,2,4-Trichlorobenzene	25.62	145	2064	-0.05389	ppb		79
95)	Hexachlorobutadiene	25.89	223	8162	0.75407	ppb		95
96)	Naphthalene	25.99	128	19449	1.13577	ppb		99
97)	1,2,3-Trichlorobenzene	26.38	180	3944	0.47493	ppb		82

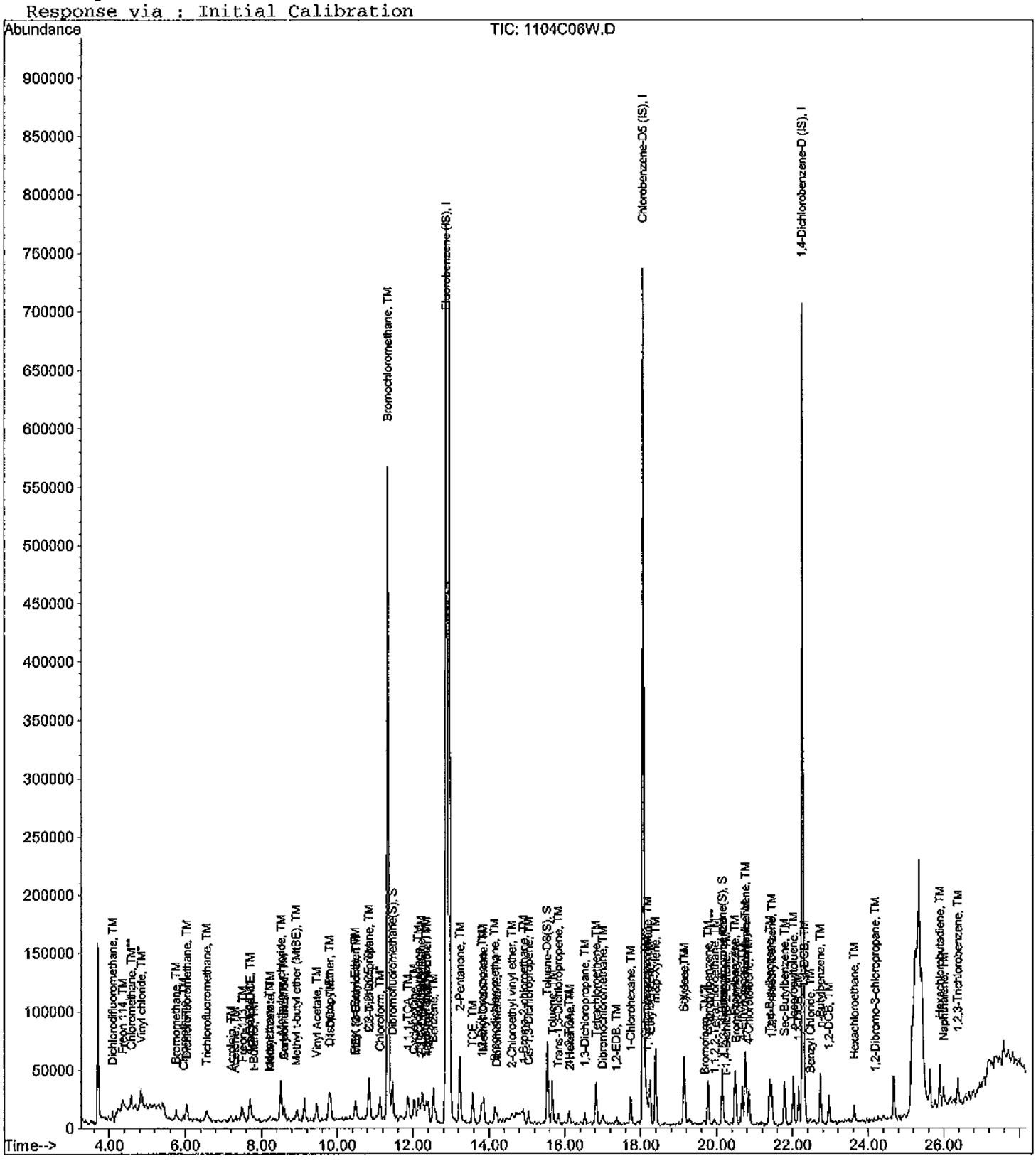
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1104C06W.D Vial: 1
Acq On : 4 Nov 11 13:43 Operator: STC
Sample : VOL STD 11-04-11@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C07W.D
Acq On : 4 Nov 11 14:26
Sample : VOL STD 11-04-11@2.0ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	405440	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	18.07	117	254080	25.00000 ppb		0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	128752	25.00000 ppb		0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.46	111	51919	3.68229 ppb		0.00
Spiked Amount 21.097			Recovery	= 17.452%		
38) 1,2-DCA-D4(S)	12.26	65	44969	3.64439 ppb		0.00
Spiked Amount 21.225			Recovery	= 17.168%		
56) Toluene-D8(S)	15.54	98	138796	3.70789 ppb		0.00
Spiked Amount 25.808			Recovery	= 14.367%		
64) 4-Bromofluorobenzene(S)	20.15	95	50883	3.85352 ppb		0.00
Spiked Amount 25.459			Recovery	= 15.138%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.10	85	27062	1.99397 ppb		99
3) Freon 114	4.36	85	20296	1.81103 ppb		95
4) Chloromethane	4.58	50	32393	1.84478 ppb		91
5) Vinyl chloride	4.84	62	25730	1.81809 ppb		98
7) Bromomethane	5.76	94	18236	2.15068 ppb		90
8) Chloroethane	5.94	64	4232	1.79943 ppb		98
9) Dichlorofluoromethane	6.03	67	54646	1.87447 ppb		96
10) Trichlorofluoromethane	6.56	101	38915	1.99144 ppb		95
11) Acetonitrile	7.69	41	22571	63.61703 ug/l		100
12) Acrolein	7.20	56	10810	62.97005 ppb		84
13) Acetone	7.32	43	4938	3.67309 ppb	#	73
14) Freon-113	7.50	101	21701	2.01741 ppb		89
15) 1,1-DCE	7.71	96	20479	1.82379 ppb		95
16) t-Butanol	7.80	59	3146	58.44211 ppb	#	80
17) Methyl Acetate	8.24	43	9246	2.54036 ppb		99
18) Iodomethane	8.20	142	10901	3.32776 ppb		83
19) Acrylonitrile	8.58	53	2568	2.13776 ppb	#	46
20) Methylene chloride	8.49	84	29733	1.16412 ppb		94
21) Carbon disulfide	8.59	76	14346	1.54768 ppb		97
22) Methyl t-butyl ether (MtBE	8.93	73	34227	1.87606 ppb	#	91
23) Trans-1,2-DCE	7.71	96	20479	1.82379 ppb		93
24) Diisopropyl Ether	9.79	45	60417	1.81628 ppb	#	93
25) 1,1-DCA	9.83	63	42340	1.81658 ppb		92
26) Vinyl Acetate	9.46	43	4367	2.36931 ppb		83
27) Ethyl tert Butyl Ether	10.48	59	51673	1.83636 ppb		95
28) MEK (2-Butanone)	10.49	43	10102	1.91838 ppb		95
29) Cis-1,2-DCE	10.85	96	29863	2.05986 ppb		83
30) 2,2-Dichloropropane	10.85	77	39482	1.83364 ppb		91
31) Chloroform	11.13	83	45920	1.86053 ppb		96
32) Bromochloromethane	11.36	128	7996	1.82851 ppb		94
34) 1,1,1-TCA	11.87	97	45731	1.90896 ppb		96
35) Cyclohexane	12.03	56	30255	1.95849 ppb	#	74
36) 1,1-Dichloropropene	12.14	75	34068	1.97867 ppb		93
37) 2,2,4-Trimethylpentane	12.21	57	55159	2.08114 ppb	#	85
39) Carbon Tetrachloride	12.33	117	32043	1.75101 ppb		95
40) Tert Amyl Methyl Ether	12.38	73	38088	1.86013 ppb		95
41) 1,2-DCA	12.41	62	26100	1.85795 ppb	#	93
42) Benzene	12.54	78	84212	1.92190 ppb		95
43) TCE	13.57	95	25590	1.84509 ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C07W.D Vial: 1
Acq On : 4 Nov 11 14:26 Operator: STC
Sample : VOL STD 11-04-11@2.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

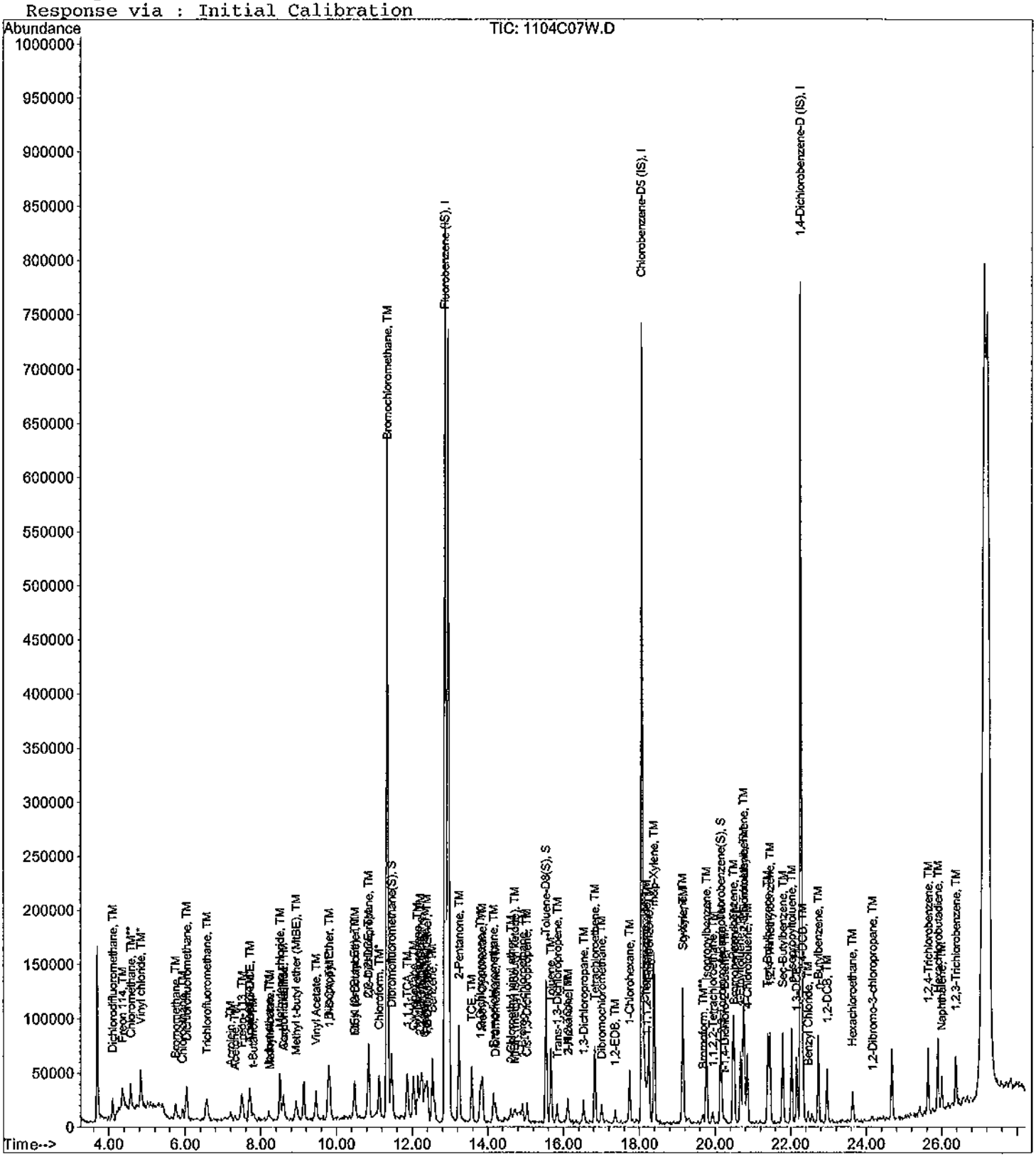
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	2-Pentanone	13.23	43	169607	68.24948	ppb		97
45)	1,2-Dichloropropane	13.80	63	19588	1.95957	ppb	#	91
46)	Bromodichloromethane	14.15	83	25321	1.68209	ppb	#	90
47)	Methyl Cyclohexane	13.85	83	28638	1.99837	ppb		96
48)	Dibromomethane	14.21	93	9441	1.79851	ppb		76
49)	2-Chloroethyl vinyl ether	14.62	63	5069	1.75350	ppb	#	78
50)	1-Bromo-2-chloroethane	14.91	63	15793	1.80357	ppb		93
51)	Cis-1,3-Dichloropropene	15.03	75	22467	1.82302	ppb		99
52)	Toluene	15.67	91	86572	1.86239	ppb		97
53)	Trans-1,3-Dichloropropene	15.85	75	17331	1.85048	ppb	#	77
54)	1,1,2-TCA	16.12	83	7190	1.55632	ppb	#	65
57)	1,2-EDB	17.36	107	10335	1.91250	ppb	#	72
58)	Tetrachloroethene	16.82	164	28124	2.18371	ppb		95
59)	1-Chlorohexane	17.74	91	27299	1.98174	ppb		94
60)	1,1,1,2-Tetrachloroethane	18.20	131	17365	1.81980	ppb		93
61)	m&p-Xylene	18.39	106	78641	4.26633	ppb		98
62)	o-Xylene	19.14	106	36995	2.10602	ppb		98
63)	Styrene	19.16	104	56601	2.03969	ppb		96
65)	2-Hexanone	16.14	43	4763	2.26639	ppb		89
66)	1,3-Dichloropropane	16.53	76	18858	2.12907	ppb		88
67)	Dibromochloromethane	17.02	129	15484	2.05227	ppb		89
68)	Chlorobenzene	18.14	112	52036	1.88701	ppb		87
69)	Ethylbenzene	18.26	91	98687	2.04931	ppb		95
70)	Bromoform	19.68	173	5673	1.83889	ppb		95
72)	MIBK (methyl isobutyl keto	14.70	43	7800	1.29079	ppb		99
73)	Isopropylbenzene	19.77	105	100142	2.08295	ppb		96
74)	1,1,2,2-Tetrachloroethane	19.93	83	8802	2.15277	ppb	#	63
75)	1,2,3-Trichloropropane	20.19	110	1198	1.14964	ppb	#	46
76)	t-1,4-Dichloro-2-Butene	20.27	53	1703	1.35322	ppb	#	61
77)	Bromobenzene	20.52	156	23264	2.20318	ppb		84
78)	n-Propylbenzene	20.48	91	116443	2.12776	ppb		96
79)	4-Ethyltoluene	20.67	105	86828	2.26815	ppb		93
80)	2-Chlorotoluene	20.77	91	79320	2.16981	ppb		92
81)	1,3,5-Trimethylbenzene	20.75	105	80883	2.02644	ppb		93
82)	4-Chlorotoluene	20.86	91	69620	2.16771	ppb		85
83)	Tert-Butylbenzene	21.40	119	89897	2.12071	ppb		85
84)	1,2,4-Trimethylbenzene	21.46	105	80754	2.05969	ppb		93
85)	Sec-Butylbenzene	21.80	105	102495	2.00084	ppb		100
86)	p-Isopropyltoluene	22.03	119	92643	2.05693	ppb		91
87)	Benzyl Chloride	22.47	91	13240	1.73493	ppb		98
88)	1,3-DCB	22.16	146	39095	1.88448	ppb		98
89)	1,4-DCB	22.33	146	37516	1.93026	ppb		90
90)	Hexachloroethane	23.62	117	8791	1.59199	ppb		93
91)	n-Butylbenzene	22.73	91	70934	1.87062	ppb		95
92)	1,2-DCB	22.97	146	35979	2.09456	ppb	#	80
93)	1,2-Dibromo-3-chloropropan	24.18	155	1017	1.63261	ppb	#	52
94)	1,2,4-Trichlorobenzene	25.64	145	2812	0.39684	ppb	#	56
95)	Hexachlorobutadiene	25.90	223	14897	1.73280	ppb		89
96)	Naphthalene	25.99	128	32493	1.77677	ppb		94
97)	1,2,3-Trichlorobenzene	26.37	180	9996	1.82764	ppb		89

(#) = qualifier out of range (m) = manual integration

Data File : M:\CHICO\DATA\C111104\1104C07W.D Vial: 1
Acq On : 4 Nov 11 14:26 Operator: STC
Sample : VOL STD 11-04-11@2.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C08W.D Vial: 1
Acq On : 4 Nov 11 15:10 Operator: STC
Sample : VOL STD 11-04-11@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	342528	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	18.07	117	236800	25.00000 ppb		0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	124656	25.00000 ppb		0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.47	111	116622	9.79046 ppb		0.00
Spiked Amount 21.097			Recovery = 46.404%			
38) 1,2-DCA-D4(S)	12.26	65	104785	10.05173 ppb		0.00
Spiked Amount 21.225			Recovery = 47.359%			
56) Toluene-D8(S)	15.54	98	353632	10.13655 ppb		0.00
Spiked Amount 25.808			Recovery = 39.278%			
64) 4-Bromofluorobenzene(S)	20.14	95	115574	9.39148 ppb		0.00
Spiked Amount 25.459			Recovery = 36.886%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.10	85	44758	3.90355 ppb		99
3) Freon 114	4.37	85	40847	4.31426 ppb		89
4) Chloromethane	4.58	50	75808	5.11022 ppb		98
5) Vinyl chloride	4.85	62	63322	5.29617 ppb		98
7) Bromomethane	5.75	94	38201	5.33275 ppb		100
8) Chloroethane	5.95	64	10110	5.08828 ppb	#	90
9) Dichlorofluoromethane	6.03	67	133932	5.43796 ppb		99
10) Trichlorofluoromethane	6.55	101	76503	4.63403 ppb		86
11) Acetonitrile	7.68	41	31305	104.43999 ug/l		100
12) Acrolein	7.19	56	13534	93.31791 ppb		99
13) Acetone	7.32	43	7782	6.85175 ppb	#	71
14) Freon-113	7.50	101	41742	4.59322 ppb		93
15) 1,1-DCE	7.72	96	49004	5.16569 ppb		95
16) t-Butanol	7.81	59	4581	100.72981 ppb	#	61
17) Methyl Acetate	8.23	43	15748	5.71604 ppb	#	80
18) Iodomethane	8.20	142	26716	5.31661 ppb	#	86
19) Acrylonitrile	8.60	53	5699	5.61556 ppb		77
20) Methylene chloride	8.51	84	47744	4.22712 ppb		97
21) Carbon disulfide	8.59	76	46384	5.92310 ppb		96
22) Methyl t-butyl ether (MtBE	8.94	73	85722	5.56162 ppb		96
23) Trans-1,2-DCE	7.72	96	49004	5.16569 ppb		95
24) Diisopropyl Ether	9.79	45	160710	5.71870 ppb		98
25) 1,1-DCA	9.82	63	111916	5.68362 ppb	#	90
26) Vinyl Acetate	9.46	43	6763	4.34318 ppb	#	76
27) Ethyl tert Butyl Ether	10.48	59	136225	5.73034 ppb		98
28) MEK (2-Butanone)	10.47	43	23651	5.31628 ppb		99
29) Cis-1,2-DCE	10.86	96	62091	5.06949 ppb		93
30) 2,2-Dichloropropane	10.85	77	100729	5.53732 ppb		96
31) Chloroform	11.13	83	116745	5.59892 ppb		93
32) Bromochloromethane	11.35	128	21732	5.88239 ppb		79
34) 1,1,1-TCA	11.87	97	114421	5.65356 ppb		85
35) Cyclohexane	12.04	56	65806	5.04221 ppb		89
36) 1,1-Dichloropropene	12.14	75	78057	5.36623 ppb		91
37) 2,2,4-Trimethylpentane	12.22	57	107532	4.92340 ppb		96
39) Carbon Tetrachloride	12.34	117	78677	5.08900 ppb		92
40) Tert Amyl Methyl Ether	12.40	73	92058	5.32167 ppb		99
41) 1,2-DCA	12.42	62	64446	5.43027 ppb	#	89
42) Benzene	12.53	78	197081	5.32392 ppb		98
43) TCE	13.58	95	66285	5.65709 ppb		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C08W.D Vial: 1
Acq On : 4 Nov 11 15:10 Operator: STC
Sample : VOL STD 11-04-11@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	2-Pentanone	13.24	43	232888	110.92596	ppb		99
45)	1,2-Dichloropropane	13.80	63	45996	5.44654	ppb	#	90
46)	Bromodichloromethane	14.16	83	69553	5.46908	ppb	#	95
47)	Methyl Cyclohexane	13.86	83	59203	4.88999	ppb		99
48)	Dibromomethane	14.21	93	26776	6.03768	ppb		98
49)	2-Chloroethyl vinyl ether	14.62	63	13278	5.95454	ppb	#	75
50)	1-Bromo-2-chloroethane	14.92	63	43687	5.90542	ppb		97
51)	Cis-1,3-Dichloropropene	15.05	75	60874	5.84667	ppb	#	81
52)	Toluene	15.68	91	222841	5.67439	ppb		100
53)	Trans-1,3-Dichloropropene	15.85	75	46577	5.88658	ppb		99
54)	1,1,2-TCA	16.11	83	23550	6.03379	ppb		82
57)	1,2-EDB	17.37	107	26711	5.30358	ppb	#	81
58)	Tetrachloroethene	16.84	164	65659	5.47017	ppb		95
59)	1-Chlorohexane	17.75	91	64058	4.98955	ppb		94
60)	1,1,1,2-Tetrachloroethane	18.21	131	46457	5.22383	ppb		82
61)	m&p-Xylene	18.39	106	178767	10.40596	ppb		99
62)	o-Xylene	19.15	106	87743	5.35947	ppb		94
63)	Styrene	19.16	104	135120	5.22456	ppb		100
65)	2-Hexanone	16.15	43	9905	5.05705	ppb	#	74
66)	1,3-Dichloropropane	16.54	76	45496	5.51134	ppb		90
67)	Dibromochloromethane	17.01	129	36601	5.20514	ppb		100
68)	Chlorobenzene	18.14	112	137665	5.35653	ppb		97
69)	Ethylbenzene	18.26	91	229662	5.11712	ppb		100
70)	Bromoform	19.68	173	14913	4.56560	ppb		81
72)	MIBK (methyl isobutyl keto	14.70	43	16221	4.76536	ppb	#	70
73)	Isopropylbenzene	19.78	105	243877	5.23930	ppb		97
74)	1,1,2,2-Tetrachloroethane	19.94	83	19338	4.88505	ppb	#	68
75)	1,2,3-Trichloropropane	20.20	110	2914	5.08581	ppb		97
76)	t-1,4-Dichloro-2-Butene	20.25	53	4188	3.98826	ppb	#	75
77)	Bromobenzene	20.51	156	52962	5.18049	ppb		96
78)	n-Propylbenzene	20.48	91	274382	5.17853	ppb		92
79)	4-Ethyltoluene	20.68	105	195340	5.27042	ppb		95
80)	2-Chlorotoluene	20.77	91	190818	5.39137	ppb		96
81)	1,3,5-Trimethylbenzene	20.75	105	207757	5.37617	ppb		97
82)	4-Chlorotoluene	20.85	91	168165	5.40808	ppb		98
83)	Tert-Butylbenzene	21.39	119	218550	5.32509	ppb		89
84)	1,2,4-Trimethylbenzene	21.46	105	211097	5.56109	ppb		99
85)	Sec-Butylbenzene	21.80	105	270260	5.44920	ppb		99
86)	p-Isopropyltoluene	22.03	119	231392	5.30636	ppb		99
87)	Benzyl Chloride	22.47	91	38003	5.14343	ppb		95
88)	1,3-DCB	22.17	146	111833	5.56777	ppb		97
89)	1,4-DCB	22.33	146	102082	5.42488	ppb		97
90)	Hexachloroethane	23.64	117	35887	4.91173	ppb		79
91)	n-Butylbenzene	22.74	91	199976	5.44691	ppb		91
92)	1,2-DCB	22.97	146	93313	5.61082	ppb		94
93)	1,2-Dibromo-3-chloropropan	24.18	155	3619	6.00053	ppb	#	55
94)	1,2,4-Trichlorobenzene	25.63	145	9382	5.49802	ppb		91
95)	Hexachlorobutadiene	25.90	223	37379	5.48193	ppb		91
96)	Naphthalene	26.00	128	96790	5.46655	ppb		95
97)	1,2,3-Trichlorobenzene	26.37	180	25856	5.75152	ppb		93

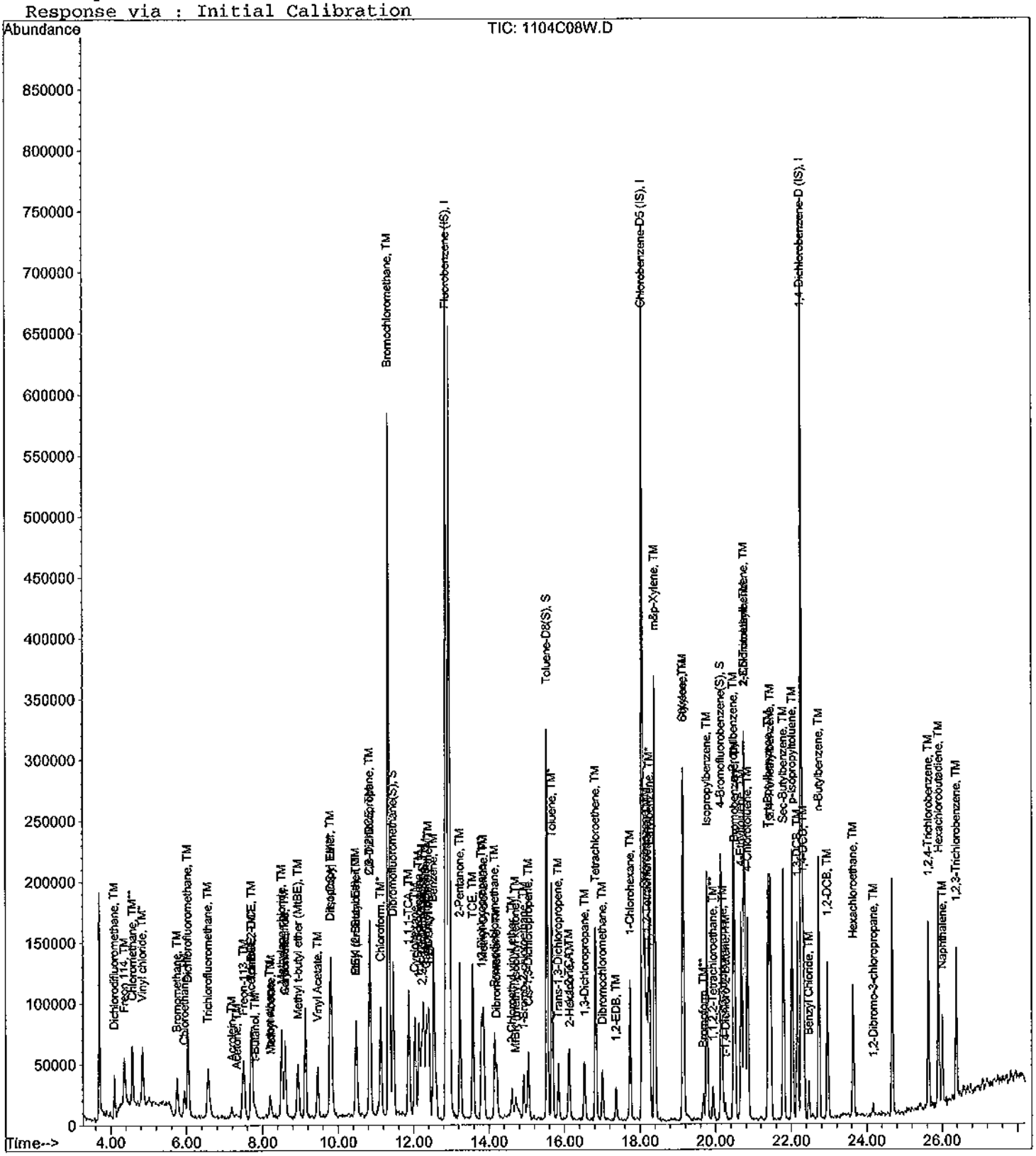
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1104C08W.D Vial: 1
Acq On : 4 Nov 11 15:10 Operator: STC
Sample : VOL STD 11-04-11@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C09W.D Vial: 1
Acq On : 4 Nov 11 15:53 Operator: STC
Sample : VOL STD 11-04-11@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	96	379520	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	18.07	117	242112	25.00000 ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	128488	25.00000 ppb	0.00
System Monitoring Compounds					
33) Dibromofluoromethane(S)	11.46	111	287229	21.76268 ppb	0.00
Spiked Amount 21.097			Recovery = 103.156%		
38) 1,2-DCA-D4(S)	12.27	65	258245	22.35810 ppb	0.00
Spiked Amount 21.225			Recovery = 105.337%		
56) Toluene-D8(S)	15.55	98	879576	24.65911 ppb	0.00
Spiked Amount 25.808			Recovery = 95.547%		
64) 4-Bromofluorobenzene(S)	20.15	95	277092	22.02233 ppb	0.00
Spiked Amount 25.459			Recovery = 86.498%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.09	85	127173	10.01025 ppb	100
3) Freon 114	4.36	85	108450	10.33801 ppb	100
4) Chloromethane	4.58	50	145302	8.84010 ppb	100
5) Vinyl chloride	4.84	62	134944	10.18643 ppb	100
7) Bromomethane	5.76	94	71701	9.03366 ppb	100
8) Chloroethane	5.95	64	22160	10.06586 ppb	100
9) Dichlorofluoromethane	6.04	67	262793	9.63001 ppb	100
10) Trichlorofluoromethane	6.55	101	188786	10.32076 ppb	100
11) Acetonitrile	7.68	41	37382	112.55818 ug/l	100
12) Acrolein	7.19	56	20448	127.24803 ppb	100
13) Acetone	7.31	43	14935	11.86799 ppb	100
14) Freon-113	7.50	101	107086	10.63502 ppb	100
15) 1,1-DCE	7.72	96	99219	9.43959 ppb	100
16) t-Butanol	7.81	59	6419	127.38741 ppb	100
17) Methyl Acetate	8.22	43	28532	9.71849 ppb	100
18) Iodomethane	8.19	142	65986	9.04723 ppb	100
19) Acrylonitrile	8.59	53	10812	9.61528 ppb	100
20) Methylene chloride	8.50	84	91172	8.90345 ppb	100
21) Carbon disulfide	8.59	76	81832	9.43117 ppb	100
22) Methyl t-butyl ether (MtBE	8.93	73	169951	9.95163 ppb	100
23) Trans-1,2-DCE	7.72	96	99219	9.43959 ppb	100
24) Diisopropyl Ether	9.79	45	321134	10.31340 ppb	100
25) 1,1-DCA	9.83	63	218554	10.01736 ppb	100
26) Vinyl Acetate	9.46	43	17392	10.08044 ppb	100
27) Ethyl tert Butyl Ether	10.49	59	272154	10.33237 ppb	100
28) MEK (2-Butanone)	10.47	43	48790	9.89807 ppb	100
29) Cis-1,2-DCE	10.85	96	125309	9.23377 ppb	100
30) 2,2-Dichloropropane	10.85	77	196268	9.73769 ppb	100
31) Chloroform	11.13	83	232875	10.07976 ppb	100
32) Bromochloromethane	11.36	128	39959	9.76180 ppb	100
34) 1,1,1-TCA	11.88	97	221848	9.89312 ppb	100
35) Cyclohexane	12.04	56	143720	9.93880 ppb	100
36) 1,1-Dichloropropene	12.15	75	159974	9.92586 ppb	100
37) 2,2,4-Trimethylpentane	12.22	57	254541	10.62353 ppb	100
39) Carbon Tetrachloride	12.33	117	180276	10.52408 ppb	100
40) Tert Amyl Methyl Ether	12.38	73	179275	9.35336 ppb	100
41) 1,2-DCA	12.41	62	130074	9.89184 ppb	100
42) Benzene	12.54	78	395767	9.64913 ppb	100
43) TCE	13.57	95	132470	10.20369 ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C09W.D Vial: 1
Acq On : 4 Nov 11 15:53 Operator: STC
Sample : VOL STD 11-04-11@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.23	43	303865	130.62557	ppb	100
45) 1,2-Dichloropropane	13.81	63	94743	10.12532	ppb	100
46) Bromodichloromethane	14.15	83	143971	10.21728	ppb	100
47) Methyl Cyclohexane	13.85	83	142413	10.61635	ppb	100
48) Dibromomethane	14.21	93	49780	10.13073	ppb	100
49) 2-Chloroethyl vinyl ether	14.61	63	23727	9.72506	ppb	100
50) 1-Bromo-2-chloroethane	14.92	63	85645	10.44869	ppb	100
51) Cis-1,3-Dichloropropene	15.04	75	123425	10.69896	ppb	100
52) Toluene	15.67	91	420896	9.67298	ppb	100
53) Trans-1,3-Dichloropropene	15.84	75	89040	10.15636	ppb	100
54) 1,1,2-TCA	16.13	83	42304	9.78232	ppb	100
57) 1,2-EDB	17.37	107	50509	9.80873	ppb	100
58) Tetrachloroethene	16.83	164	127344	10.37649	ppb	100
59) 1-Chlorohexane	17.74	91	129788	9.88754	ppb	100
60) 1,1,1,2-Tetrachloroethane	18.20	131	101087	11.11729	ppb	100
61) m&p-Xylene	18.39	106	357586	20.35825	ppb	100
62) o-Xylene	19.15	106	172306	10.29378	ppb	100
63) Styrene	19.16	104	268277	10.14562	ppb	100
65) 2-Hexanone	16.15	43	20316	10.14486	ppb	100
66) 1,3-Dichloropropane	16.53	76	98404	11.65902	ppb	100
67) Dibromochloromethane	17.02	129	75267	10.46910	ppb	100
68) Chlorobenzene	18.14	112	273822	10.42062	ppb	100
69) Ethylbenzene	18.26	91	465715	10.14897	ppb	100
70) Bromoform	19.68	173	36380	10.34509	ppb	100
72) MIBK (methyl isobutyl keto	14.71	43	31808	10.63237	ppb	100
73) Isopropylbenzene	19.77	105	486728	10.14471	ppb	100
74) 1,1,2,2-Tetrachloroethane	19.94	83	39745	9.74072	ppb	100
75) 1,2,3-Trichloropropane	20.20	110	6223	12.10002	ppb	100
76) t-1,4-Dichloro-2-Butene	20.26	53	11077	10.79450	ppb	100
77) Bromobenzene	20.52	156	97097	9.21431	ppb	100
78) n-Propylbenzene	20.48	91	533031	9.76009	ppb	100
79) 4-Ethyltoluene	20.67	105	366054	9.58185	ppb	100
80) 2-Chlorotoluene	20.77	91	347971	9.53836	ppb	100
81) 1,3,5-Trimethylbenzene	20.75	105	384305	9.64814	ppb	100
82) 4-Chlorotoluene	20.86	91	291395	9.09160	ppb	100
83) Tert-Butylbenzene	21.40	119	412330	9.74701	ppb	100
84) 1,2,4-Trimethylbenzene	21.46	105	388890	9.93928	ppb	100
85) Sec-Butylbenzene	21.80	105	511951	10.01452	ppb	100
86) p-Isopropyltoluene	22.03	119	442619	9.84757	ppb	100
87) Benzyl Chloride	22.46	91	75328	9.89104	ppb	100
88) 1,3-DCB	22.16	146	208337	10.06303	ppb	100
89) 1,4-DCB	22.33	146	195945	10.10243	ppb	100
90) Hexachloroethane	23.63	117	78859	9.82085	ppb	100
91) n-Butylbenzene	22.73	91	354209	9.36014	ppb	100
92) 1,2-DCB	22.96	146	174981	10.20765	ppb	100
93) 1,2-Dibromo-3-chloropropan	24.18	155	5583	8.98089	ppb	100
94) 1,2,4-Trichlorobenzene	25.64	145	18480	12.04496	ppb	100
95) Hexachlorobutadiene	25.90	223	73499	11.00683	ppb	100
96) Naphthalene	26.00	128	189823	10.40116	ppb	100
97) 1,2,3-Trichlorobenzene	26.38	180	49368	11.13597	ppb	100

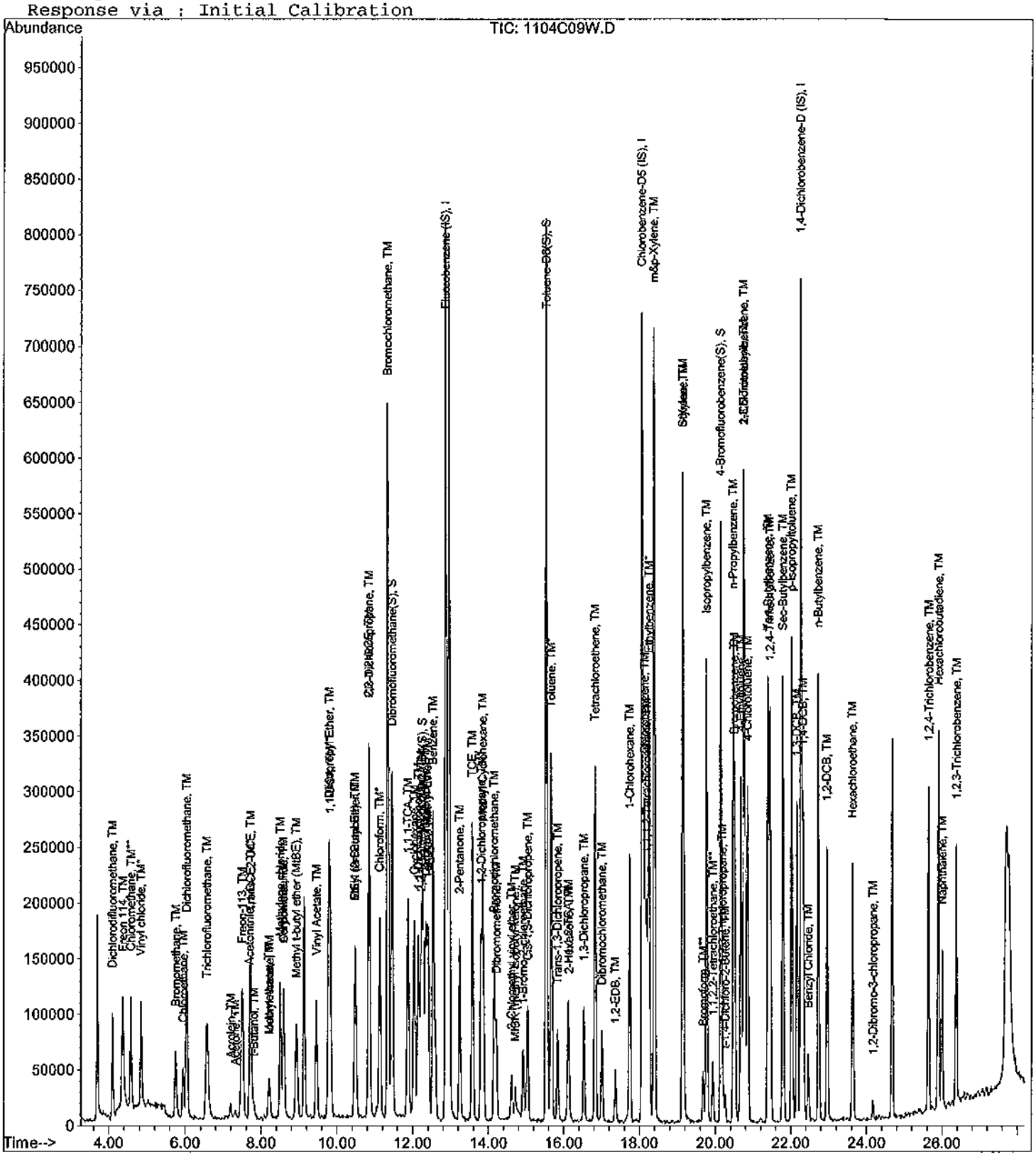
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1104C09W.D Vial: 1
Acq On : 4 Nov 11 15:53 Operator: STC
Sample : VOL STD 11-04-11@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C10W.D Vial: 1
Acq On : 4 Nov 11 16:36 Operator: STC
Sample : VOL STD 11-04-11@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	400704	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	18.08	117	269632	25.00000 ppb		0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	142144	25.00000 ppb		0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.46	111	492580	35.34857 ppb		0.00
Spiked Amount 21.097			Recovery = 167.553%			
38) 1,2-DCA-D4(S)	12.27	65	429376	35.20885 ppb		0.00
Spiked Amount 21.225			Recovery = 165.882%			
56) Toluene-D8(S)	15.54	98	1401114	35.27138 ppb		-0.01
Spiked Amount 25.808			Recovery = 136.665%			
64) 4-Bromofluorobenzene(S)	20.15	95	492835	35.17109 ppb		0.00
Spiked Amount 25.459			Recovery = 138.145%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.09	85	277038	20.65381 ppb		97
3) Freon 114	4.36	85	212178	19.15661 ppb		100
4) Chloromethane	4.58	50	305030	17.57678 ppb		100
5) Vinyl chloride	4.84	62	269268	19.25148 ppb		97
7) Bromomethane	5.75	94	158325	18.89291 ppb		97
8) Chloroethane	5.94	64	41240	17.74233 ppb	#	78
9) Dichlorofluoromethane	6.04	67	534205	18.54095 ppb		98
10) Trichlorofluoromethane	6.57	101	370398	19.17881 ppb		83
11) Acetonitrile	7.69	41	48933	139.54921 ug/l		100
12) Acrolein	7.19	56	27545	162.35064 ppb		90
13) Acetone	7.31	43	23983	18.05038 ppb	#	76
14) Freon-113	7.50	101	209677	19.72275 ppb		89
15) 1,1-DCE	7.71	96	193323	17.42019 ppb		91
16) t-Butanol	7.80	59	8107	152.38082 ppb	#	93
17) Methyl Acetate	8.21	43	56490	18.73637 ppb	#	86
18) Iodomethane	8.20	142	162809	18.09224 ppb	#	84
19) Acrylonitrile	8.60	53	23414	19.72162 ppb		92
20) Methylene chloride	8.50	84	189403	19.68257 ppb		99
21) Carbon disulfide	8.59	76	167616	18.29653 ppb		100
22) Methyl t-butyl ether (MtBE	8.94	73	341468	18.93789 ppb		97
23) Trans-1,2-DCE	7.71	96	193323	17.42019 ppb		89
24) Diisopropyl Ether	9.79	45	650045	19.77289 ppb		96
25) 1,1-DCA	9.83	63	424316	18.42022 ppb		95
26) Vinyl Acetate	9.46	43	33304	18.28258 ppb		90
27) Ethyl tert Butyl Ether	10.48	59	549179	19.74741 ppb		92
28) MEK (2-Butanone)	10.49	43	96745	18.58914 ppb	#	89
29) Cis-1,2-DCE	10.85	96	258223	18.02199 ppb		97
30) 2,2-Dichloropropane	10.84	77	396661	18.63962 ppb		94
31) Chloroform	11.14	83	476659	19.54096 ppb		99
32) Bromochloromethane	11.35	128	87599	20.26869 ppb		83
34) 1,1,1-TCA	11.88	97	472342	19.95011 ppb		97
35) Cyclohexane	12.03	56	311907	20.42926 ppb		93
36) 1,1-Dichloropropene	12.14	75	333060	19.57277 ppb		98
37) 2,2,4-Trimethylpentane	12.22	57	537763	21.35021 ppb		94
39) Carbon Tetrachloride	12.33	117	372078	20.57270 ppb		92
40) Tert Amyl Methyl Ether	12.38	73	393706	19.45499 ppb	#	98
41) 1,2-DCA	12.42	62	262003	18.87139 ppb		96
42) Benzene	12.54	78	832901	19.23325 ppb		96
43) TCE	13.57	95	276062	20.13989 ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C10W.D Vial: 1
Acq On : 4 Nov 11 16:36 Operator: STC
Sample : VOL STD 11-04-11@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	2-Pentanone	13.23	43	386206	157.24524	ppb		97
45)	1,2-Dichloropropane	13.80	63	201302	20.37609	ppb	#	94
46)	Bromodichloromethane	14.15	83	300285	20.18388	ppb		98
47)	Methyl Cyclohexane	13.85	83	300797	21.23782	ppb		99
48)	Dibromomethane	14.21	93	105461	20.32771	ppb		96
49)	2-Chloroethyl vinyl ether	14.61	63	54793	21.33442	ppb	#	90
50)	1-Bromo-2-chloroethane	14.92	63	187103	21.61980	ppb		88
51)	Cis-1,3-Dichloropropene	15.04	75	236230	19.39476	ppb		92
52)	Toluene	15.67	91	845512	18.40417	ppb		98
53)	Trans-1,3-Dichloropropene	15.84	75	185182	20.00611	ppb		95
54)	1,1,2-TCA	16.12	83	84462	18.49835	ppb		93
57)	1,2-EDB	17.36	107	119526	20.84258	ppb		88
58)	Tetrachloroethene	16.83	164	238177	17.42677	ppb		94
59)	1-Chlorohexane	17.74	91	287922	19.69578	ppb		99
60)	1,1,1,2-Tetrachloroethane	18.20	131	215585	21.28957	ppb		96
61)	m&p-Xylene	18.39	106	725284	37.07772	ppb		99
62)	o-Xylene	19.14	106	369712	19.83275	ppb		97
63)	Styrene	19.15	104	577362	19.60597	ppb		97
65)	2-Hexanone	16.15	43	42472	19.04388	ppb		77
66)	1,3-Dichloropropane	16.53	76	191805	20.40582	ppb		94
67)	Dibromochloromethane	17.01	129	164277	20.51760	ppb		86
68)	Chlorobenzene	18.14	112	562549	19.22340	ppb		94
69)	Ethylbenzene	18.25	91	965000	18.88314	ppb		91
70)	Bromoform	19.68	173	81528	20.18417	ppb		83
72)	MIBK (methyl isobutyl keto	14.70	43	68857	22.46635	ppb		85
73)	Isopropylbenzene	19.77	105	1032484	19.45229	ppb		95
74)	1,1,2,2-Tetrachloroethane	19.93	83	88491	19.60386	ppb	#	87
75)	1,2,3-Trichloropropane	20.19	110	11105	20.42107	ppb		86
76)	t-1,4-Dichloro-2-Butene	20.27	53	23197	20.75321	ppb	#	92
77)	Bromobenzene	20.51	156	217177	18.62965	ppb		87
78)	n-Propylbenzene	20.48	91	1129933	18.70200	ppb		99
79)	4-Ethyltoluene	20.67	105	804794	19.04246	ppb		98
80)	2-Chlorotoluene	20.78	91	761688	18.87304	ppb		95
81)	1,3,5-Trimethylbenzene	20.75	105	848428	19.25382	ppb		99
82)	4-Chlorotoluene	20.86	91	637571	17.98128	ppb		99
83)	Tert-Butylbenzene	21.40	119	901333	19.25954	ppb		98
84)	1,2,4-Trimethylbenzene	21.46	105	842813	19.47124	ppb		92
85)	Sec-Butylbenzene	21.80	105	1113421	19.68771	ppb		98
86)	p-Isopropyltoluene	22.03	119	951945	19.14453	ppb		98
87)	Benzyl Chloride	22.46	91	174943	20.76424	ppb		96
88)	1,3-DCB	22.16	146	452920	19.77506	ppb		95
89)	1,4-DCB	22.34	146	424749	19.79511	ppb		97
90)	Hexachloroethane	23.63	117	187585	20.38843	ppb		88
91)	n-Butylbenzene	22.73	91	771350	18.42503	ppb		95
92)	1,2-DCB	22.96	146	365396	19.26782	ppb		96
93)	1,2-Dibromo-3-chloropropan	24.18	155	14686	21.35450	ppb	#	51
94)	1,2,4-Trichlorobenzene	25.64	145	35456	22.12940	ppb		83
95)	Hexachlorobutadiene	25.90	223	146997	20.34366	ppb		97
96)	Naphthalene	25.99	128	391636	19.39768	ppb		97
97)	1,2,3-Trichlorobenzene	26.38	180	96168	20.13990	ppb		95

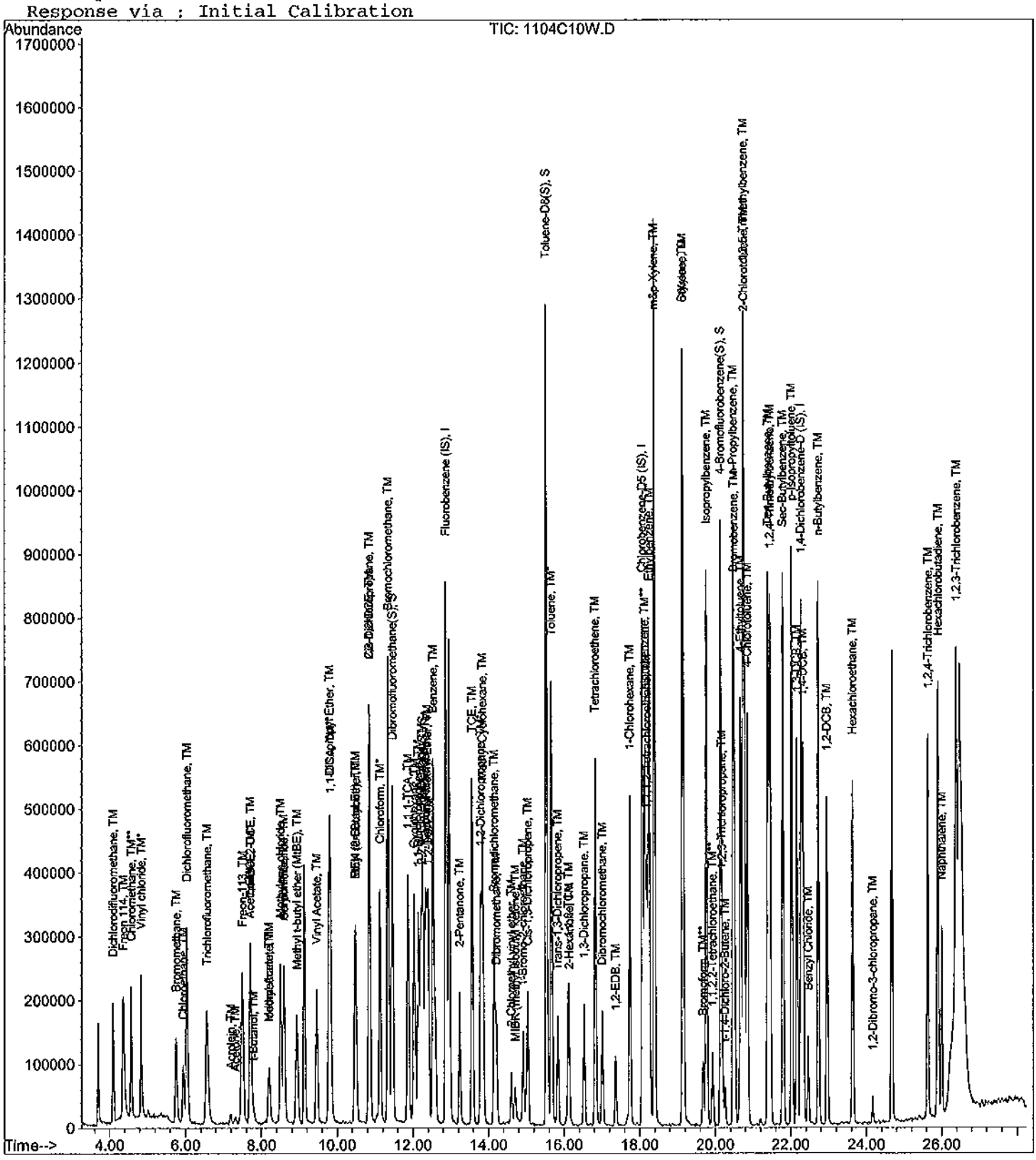
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1104C10W.D Vial: 1
Acq On : 4 Nov 11 16:36 Operator: STC
Sample : VOL STD 11-04-11@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C11W.D Vial: 1
Acq On : 4 Nov 11 17:19 Operator: STC
Sample : VOL STD 11-04-11@40ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	376384	25.00000	ppb		0.00
55) Chlorobenzene-D5 (IS)	18.07	117	260992	25.00000	ppb		0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	143232	25.00000	ppb		0.00
System Monitoring Compounds							
33) Dibromofluoromethane(S)	11.45	111	1254684	95.85659	ppb		0.00
Spiked Amount 21.097			Recovery = 454.357%				
38) 1,2-DCA-D4(S)	12.27	65	1002700	87.53416	ppb		0.00
Spiked Amount 21.225			Recovery = 412.405%				
56) Toluene-D8(S)	15.54	98	3411003	88.71055	ppb		0.00
Spiked Amount 25.808			Recovery = 343.731%				
64) 4-Bromofluorobenzene(S)	20.15	95	1235737	91.10758	ppb		0.00
Spiked Amount 25.459			Recovery = 357.855%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.09	85	605060	48.02329	ppb		99
3) Freon 114	4.35	85	460858	44.29737	ppb		93
4) Chloromethane	4.58	50	612547	37.57756	ppb		93
5) Vinyl chloride	4.83	62	532243	40.51183	ppb		98
7) Bromomethane	5.75	94	293365	37.26920	ppb		100
8) Chloroethane	5.94	64	99216	45.44293	ppb		92
9) Dichlorofluoromethane	6.04	67	1086636	40.15139	ppb		97
10) Trichlorofluoromethane	6.55	101	769775	42.43354	ppb		85
11) Acetonitrile	7.68	41	63954	194.17163	ug/l		100
12) Acrolein	7.20	56	30557	191.74077	ppb		96
13) Acetone	7.30	43	50039	40.09443	ppb	#	65
14) Freon-113	7.49	101	464944	46.55967	ppb		91
15) 1,1-DCE	7.71	96	406405	38.98709	ppb		94
16) t-Butanol	7.82	59	8641	172.91260	ppb	#	91
17) Methyl Acetate	8.22	43	111923	40.16991	ppb		96
18) Iodomethane	8.19	142	348877	38.35087	ppb		92
19) Acrylonitrile	8.60	53	44097	39.54290	ppb		94
20) Methylene chloride	8.50	84	361708	42.32780	ppb		97
21) Carbon disulfide	8.59	76	348352	40.48219	ppb		99
22) Methyl t-butyl ether (MtBE	8.93	73	684249	40.40065	ppb		98
23) Trans-1,2-DCE	7.71	96	406405	38.98709	ppb		92
24) Diisopropyl Ether	9.79	45	1211492	39.23194	ppb		98
25) 1,1-DCA	9.83	63	812380	37.54544	ppb		94
26) Vinyl Acetate	9.46	43	64963	37.96642	ppb		93
27) Ethyl tert Butyl Ether	10.49	59	1034351	39.59649	ppb		100
28) MEK (2-Butanone)	10.47	43	182834	37.40074	ppb		95
29) Cis-1,2-DCE	10.86	96	499248	37.09510	ppb		90
30) 2,2-Dichloropropane	10.85	77	742249	37.13297	ppb		95
31) Chloroform	11.13	83	930213	40.59879	ppb		100
32) Bromochloromethane	11.36	128	156949	38.66140	ppb		84
34) 1,1,1-TCA	11.87	97	848866	38.16985	ppb		97
35) Cyclohexane	12.04	56	529850	36.94648	ppb		90
36) 1,1-Dichloropropene	12.14	75	569170	35.60938	ppb		94
37) 2,2,4-Trimethylpentane	12.21	57	870992	36.88147	ppb		98
39) Carbon Tetrachloride	12.34	117	694484	40.88011	ppb		96
40) Tert Amyl Methyl Ether	12.38	73	633811	33.34351	ppb		99
41) 1,2-DCA	12.41	62	453448	34.77103	ppb		97
42) Benzene	12.54	78	1396040	34.32020	ppb		97
43) TCE	13.57	95	492796	38.27456	ppb		96

(#) = qualifier out of range (m) = manual integration

Data File : M:\CHICO\DATA\C111104\1104C11W.D Vial: 1
Acq On : 4 Nov 11 17:19 Operator: STC
Sample : VOL STD 11-04-11@40ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	2-Pentanone	13.23	43	395797	171.56295	ppb		98
45)	1,2-Dichloropropane	13.80	63	353869	38.13360	ppb		98
46)	Bromodichloromethane	14.15	83	556707	39.83734	ppb		96
47)	Methyl Cyclohexane	13.85	83	529745	39.81951	ppb		99
48)	Dibromomethane	14.20	93	188591	38.69993	ppb		97
49)	2-Chloroethyl vinyl ether	14.61	63	95435	39.10879	ppb	#	82
50)	1-Bromo-2-chloroethane	14.92	63	307506	37.82832	ppb		87
51)	Cis-1,3-Dichloropropene	15.04	75	441921	38.62661	ppb		87
52)	Toluene	15.67	91	1539538	35.67626	ppb		97
53)	Trans-1,3-Dichloropropene	15.84	75	352858	40.58413	ppb		99
54)	1,1,2-TCA	16.12	83	163761	38.18340	ppb		94
57)	1,2-EDB	17.37	107	220606	39.74208	ppb		85
58)	Tetrachloroethene	16.83	164	446353	33.73959	ppb		95
59)	1-Chlorohexane	17.74	91	547442	38.68840	ppb		99
60)	1,1,1,2-Tetrachloroethane	18.20	131	411716	42.00398	ppb		94
61)	m&p-Xylene	18.39	106	1420921	75.04454	ppb		99
62)	o-Xylene	19.14	106	705769	39.11345	ppb		100
63)	Styrene	19.16	104	1092027	38.31049	ppb		95
65)	2-Hexanone	16.14	43	79341	36.75315	ppb		82
66)	1,3-Dichloropropane	16.53	76	350477	38.52103	ppb		94
67)	Dibromochloromethane	17.01	129	333179	42.99042	ppb		90
68)	Chlorobenzene	18.14	112	1044892	36.88804	ppb		97
69)	Ethylbenzene	18.26	91	1844976	37.29768	ppb		96
70)	Bromoform	19.68	173	161724	39.84973	ppb	#	77
72)	MIBK (methyl isobutyl keto	14.71	43	117182	39.13908	ppb		82
73)	Isopropylbenzene	19.77	105	1927340	36.03580	ppb		95
74)	1,1,2,2-Tetrachloroethane	19.93	83	167829	36.89758	ppb	#	76
75)	1,2,3-Trichloropropane	20.19	110	20672	39.00837	ppb		83
76)	t-1,4-Dichloro-2-Butene	20.26	53	46026	41.21119	ppb		77
77)	Bromobenzene	20.51	156	428125	36.44601	ppb		97
78)	n-Propylbenzene	20.48	91	2145819	35.24658	ppb		99
79)	4-Ethyltoluene	20.67	105	1540904	36.18282	ppb		95
80)	2-Chlorotoluene	20.77	91	1384392	34.04178	ppb		96
81)	1,3,5-Trimethylbenzene	20.75	105	1575661	35.48568	ppb		97
82)	4-Chlorotoluene	20.86	91	1280059	35.82701	ppb		98
83)	Tert-Butylbenzene	21.40	119	1729822	36.68179	ppb		95
84)	1,2,4-Trimethylbenzene	21.46	105	1570551	36.00832	ppb		96
85)	Sec-Butylbenzene	21.80	105	2069310	36.31198	ppb		100
86)	p-Isopropyltoluene	22.03	119	1766966	35.26547	ppb		99
87)	Benzyl Chloride	22.46	91	344931	40.62939	ppb	#	91
88)	1,3-DCB	22.16	146	845275	36.62544	ppb		94
89)	1,4-DCB	22.33	146	812894	37.59655	ppb		99
90)	Hexachloroethane	23.63	117	377515	39.84876	ppb		90
91)	n-Butylbenzene	22.73	91	1482665	35.14699	ppb		99
92)	1,2-DCB	22.96	146	714195	37.37439	ppb		96
93)	1,2-Dibromo-3-chloropropan	24.18	155	29222	42.16812	ppb	#	61
94)	1,2,4-Trichlorobenzene	25.63	145	62072	39.69232	ppb		84
95)	Hexachlorobutadiene	25.90	223	284075	39.35271	ppb		96
96)	Naphthalene	25.99	128	709385	34.86885	ppb		100
97)	1,2,3-Trichlorobenzene	26.37	180	184256	39.35224	ppb		96

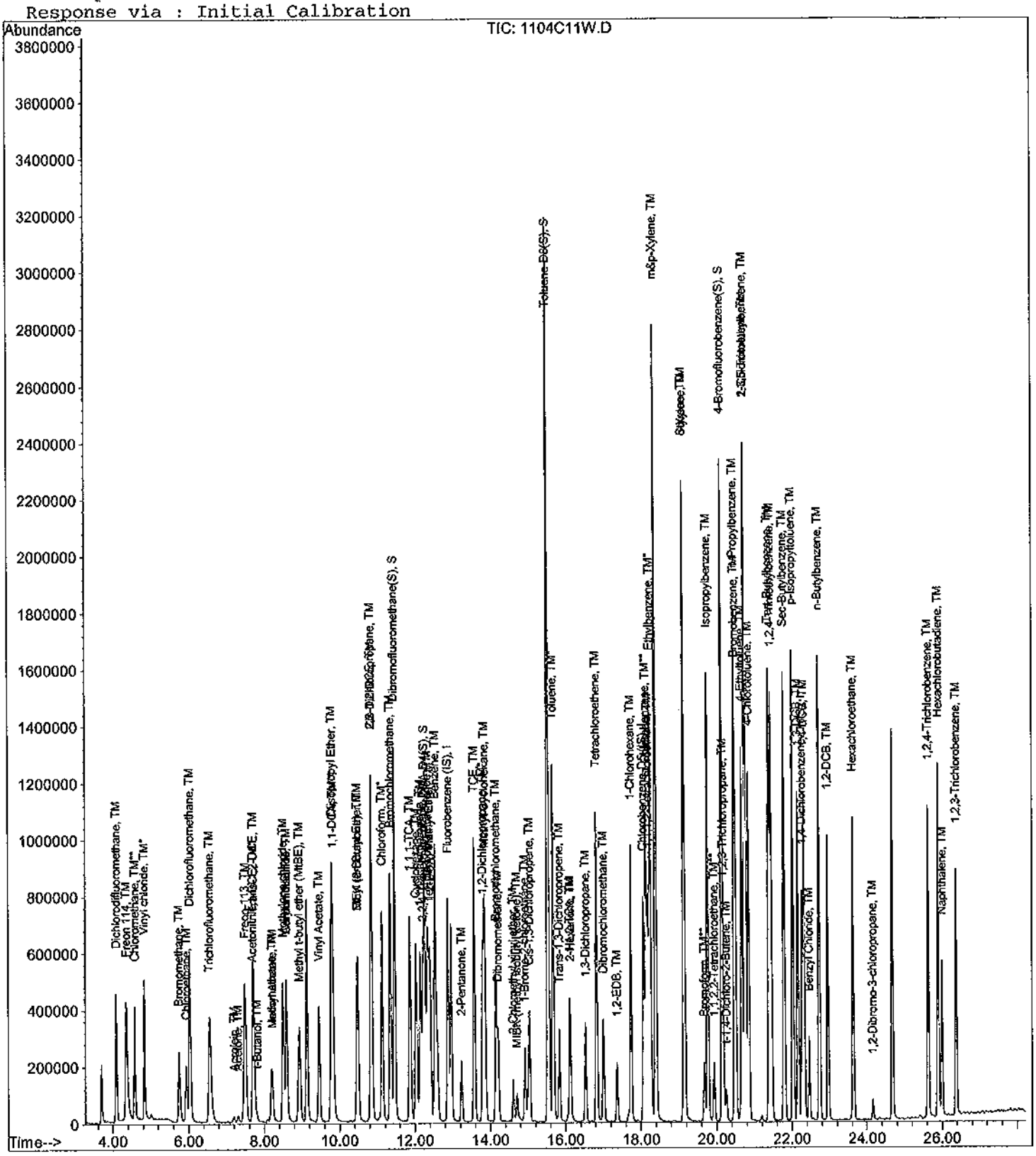
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1104C11W.D Vial: 1
Acq On : 4 Nov 11 17:19 Operator: STC
Sample : VOL STD 11-04-11@40ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C12W.D Vial: 1
Acq On : 4 Nov 11 18:02 Operator: STC
Sample : VOL STD 11-04-11@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.87	96	387584	25.00000	ppb		0.00
55) Chlorobenzene-D5 (IS)	18.08	117	270976	25.00000	ppb		0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	152832	25.00000	ppb		0.00
System Monitoring Compounds							
33) Dibromofluoromethane(S)	11.46	111	1488258	110.41578	ppb		0.00
Spiked Amount 21.097			Recovery = 523.366%				
38) 1,2-DCA-D4(S)	12.26	65	1305852	110.70464	ppb		0.00
Spiked Amount 21.225			Recovery = 521.572%				
56) Toluene-D8(S)	15.54	98	4425716	110.85954	ppb		0.00
Spiked Amount 25.808			Recovery = 429.552%				
64) 4-Bromofluorobenzene(S)	20.15	95	1555073	110.42709	ppb		0.00
Spiked Amount 25.459			Recovery = 433.737%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.10	85	1398001	107.75223	ppb		98
3) Freon 114	4.36	85	1127717	105.26312	ppb		91
4) Chloromethane	4.57	50	1586844	94.53416	ppb		94
5) Vinyl chloride	4.82	62	1214149	89.74479	ppb		100
7) Bromomethane	5.75	94	818509	100.97889	ppb		98
8) Chloroethane	5.94	64	211456	94.05241	ppb	#	83
9) Dichlorofluoromethane	6.03	67	2568939	92.17977	ppb		99
10) Trichlorofluoromethane	6.56	101	1897913	101.59844	ppb		82
11) Acetonitrile	7.69	41	58460	172.36226	ug/l		100
12) Acrolein	7.20	56	34311	209.07516	ppb		95
13) Acetone	7.31	43	107600	83.72459	ppb	#	69
14) Freon-113	7.49	101	1083350	105.35213	ppb		90
15) 1,1-DCE	7.72	96	954098	88.88329	ppb		99
16) t-Butanol	7.72	59	18592	361.28844	ppb	#	80
17) Methyl Acetate	8.22	43	284919	100.16575	ppb		91
18) Iodomethane	8.20	142	984016	101.07620	ppb		90
19) Acrylonitrile	8.60	53	104316	90.83971	ppb	#	69
20) Methylene chloride	8.51	84	848586	99.29266	ppb		93
21) Carbon disulfide	8.60	76	796352	89.87029	ppb		98
22) Methyl t-butyl ether (MtBE	8.93	73	1646449	94.40342	ppb		99
23) Trans-1,2-DCE	7.72	96	954098	88.88329	ppb		96
24) Diisopropyl Ether	9.79	45	2920305	91.83596	ppb		97
25) 1,1-DCA	9.82	63	1929536	86.59965	ppb		95
26) Vinyl Acetate	9.46	43	154496	87.68314	ppb		90
27) Ethyl tert Butyl Ether	10.48	59	2421698	90.02727	ppb		97
28) MEK (2-Butanone)	10.47	43	422294	83.88869	ppb		93
29) Cis-1,2-DCE	10.85	96	1132038	81.68204	ppb		92
30) 2,2-Dichloropropane	10.84	77	1733161	84.20042	ppb		91
31) Chloroform	11.13	83	2114438	89.61710	ppb		98
32) Bromochloromethane	11.35	128	352484	84.31866	ppb		83
34) 1,1,1-TCA	11.88	97	2277083	99.43185	ppb		99
35) Cyclohexane	12.03	56	1456353	98.61707	ppb		92
36) 1,1-Dichloropropene	12.15	75	1525242	92.66729	ppb		93
37) 2,2,4-Trimethylpentane	12.21	57	2450244	100.91582	ppb		98
39) Carbon Tetrachloride	12.33	117	1928236	110.22377	ppb		92
40) Tert Amyl Methyl Ether	12.38	73	1751916	89.50147	ppb		98
41) 1,2-DCA	12.42	62	1215844	90.53850	ppb		97
42) Benzene	12.53	78	3877684	92.57413	ppb		99
43) TCE	13.57	95	1298818	97.96179	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C12W.D Vial: 1
Acq On : 4 Nov 11 18:02 Operator: STC
Sample : VOL STD 11-04-11@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	2-Pentanone	13.23	43	480188	202.12854 ppb		97
45)	1,2-Dichloropropane	13.80	63	913679	95.61461 ppb		100
46)	Bromodichloromethane	14.15	83	1431779	99.49584 ppb		95
47)	Methyl Cyclohexane	13.85	83	1439261	105.05916 ppb		97
48)	Dibromomethane	14.21	93	482479	96.14637 ppb		98
49)	2-Chloroethyl vinyl ether	14.60	63	264911	100.08249 ppb	#	86
50)	1-Bromo-2-chloroethane	14.92	63	806701	96.36990 ppb		90
51)	Cis-1,3-Dichloropropene	15.04	75	1136888	96.49948 ppb	#	84
52)	Toluene	15.67	91	4019173	90.44633 ppb		98
53)	Trans-1,3-Dichloropropene	15.84	75	907198	101.32666 ppb		99
54)	1,1,2-TCA	16.11	83	405197	91.74780 ppb		96
57)	1,2-EDB	17.37	107	567927	98.54217 ppb	#	93
58)	Tetrachloroethene	16.83	164	1145494	83.39701 ppb		92
59)	1-Chlorohexane	17.74	91	1458222	99.25734 ppb		99
60)	1,1,1,2-Tetrachloroethane	18.19	131	1064914	104.64141 ppb		99
61)	m&p-Xylene	18.40	106	3793857	192.98630 ppb		99
62)	o-Xylene	19.14	106	1825474	97.43962 ppb		96
63)	Styrene	19.16	104	2822183	95.35991 ppb		91
65)	2-Hexanone	16.14	43	191388	85.39019 ppb		78
66)	1,3-Dichloropropane	16.53	76	877537	92.89668 ppb		93
67)	Dibromochloromethane	17.01	129	882767	109.70755 ppb		90
68)	Chlorobenzene	18.14	112	2747264	93.41378 ppb		97
69)	Ethylbenzene	18.25	91	4848703	94.40892 ppb		95
70)	Bromoform	19.67	173	460692	100.01282 ppb		91
72)	MIBK (methyl isobutyl keto	14.71	43	310673	99.82496 ppb		84
73)	Isopropylbenzene	19.77	105	4901130	85.88114 ppb		96
74)	1,1,2,2-Tetrachloroethane	19.93	83	414354	85.37451 ppb	#	82
75)	1,2,3-Trichloropropane	20.19	110	55136	100.12191 ppb		98
76)	t-1,4-Dichloro-2-Butene	20.25	53	117801	99.35278 ppb	#	77
77)	Bromobenzene	20.51	156	1085585	86.61018 ppb		93
78)	n-Propylbenzene	20.48	91	5471690	84.23084 ppb		99
79)	4-Ethyltoluene	20.68	105	4084011	89.87511 ppb		93
80)	2-Chlorotoluene	20.78	91	3618605	83.39117 ppb		92
81)	1,3,5-Trimethylbenzene	20.76	105	3929624	82.94058 ppb		97
82)	4-Chlorotoluene	20.85	91	3136042	82.25991 ppb		95
83)	Tert-Butylbenzene	21.39	119	4332803	86.10807 ppb		96
84)	1,2,4-Trimethylbenzene	21.45	105	4015207	86.27491 ppb		92
85)	Sec-Butylbenzene	21.79	105	5428141	89.26912 ppb		100
86)	p-Isopropyltoluene	22.03	119	4726869	88.41394 ppb		98
87)	Benzyl Chloride	22.46	91	924796	102.08918 ppb		93
88)	1,3-DCB	22.17	146	2259784	91.76509 ppb		95
89)	1,4-DCB	22.33	146	2224628	96.42667 ppb		98
90)	Hexachloroethane	23.63	117	1044668	100.01050 ppb		90
91)	n-Butylbenzene	22.73	91	3981630	88.45691 ppb		99
92)	1,2-DCB	22.96	146	1944735	95.37695 ppb		98
93)	1,2-Dibromo-3-chloropropan	24.17	155	81757	110.56688 ppb		82
94)	1,2,4-Trichlorobenzene	25.63	145	161984	99.51652 ppb		80
95)	Hexachlorobutadiene	25.89	223	777993	100.07622 ppb		97
96)	Naphthalene	26.00	128	1916255	88.27439 ppb		99
97)	1,2,3-Trichlorobenzene	26.38	180	472249	100.09338 ppb		98

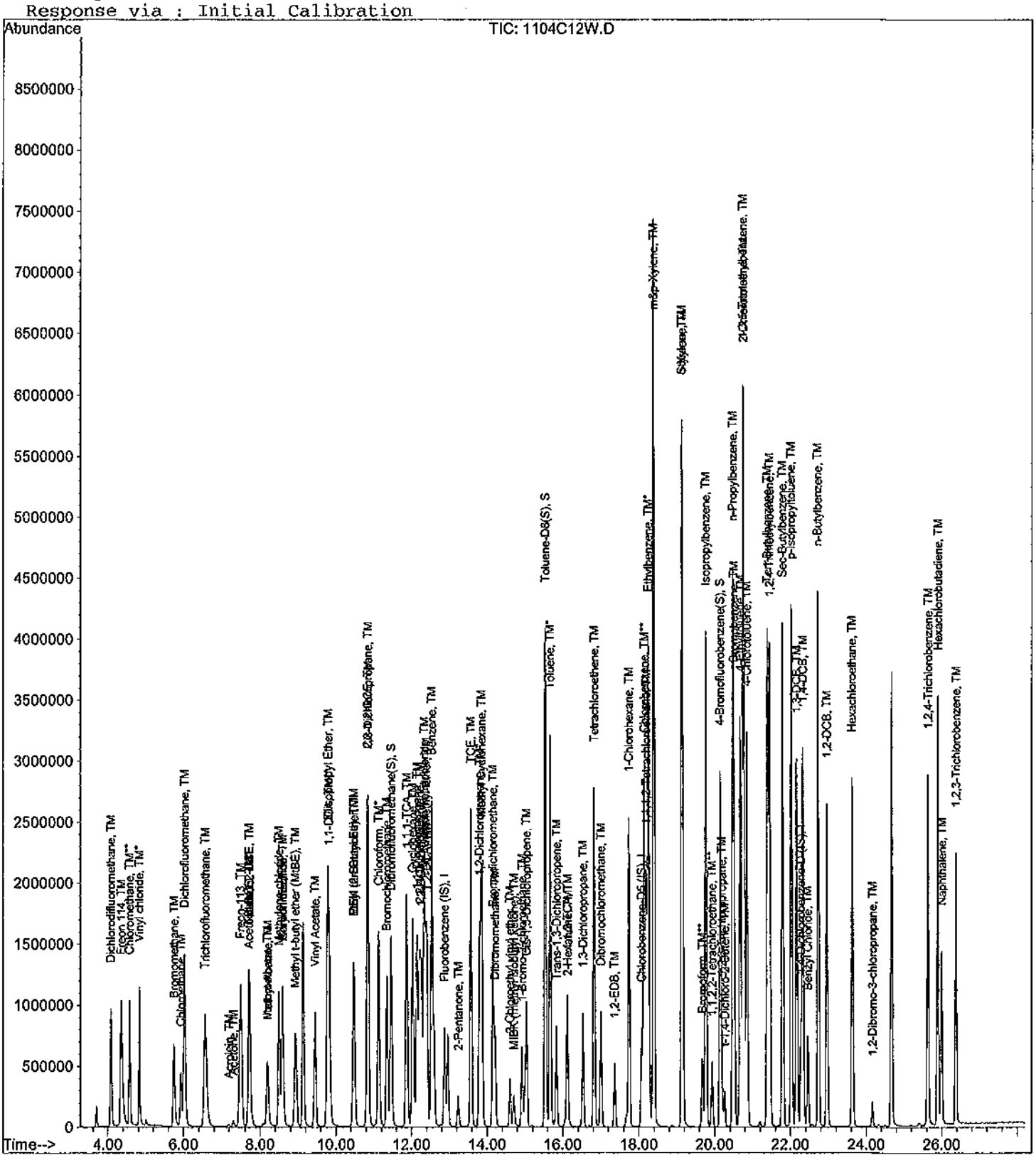
(#) = qualifier out of range (m) = manual integration

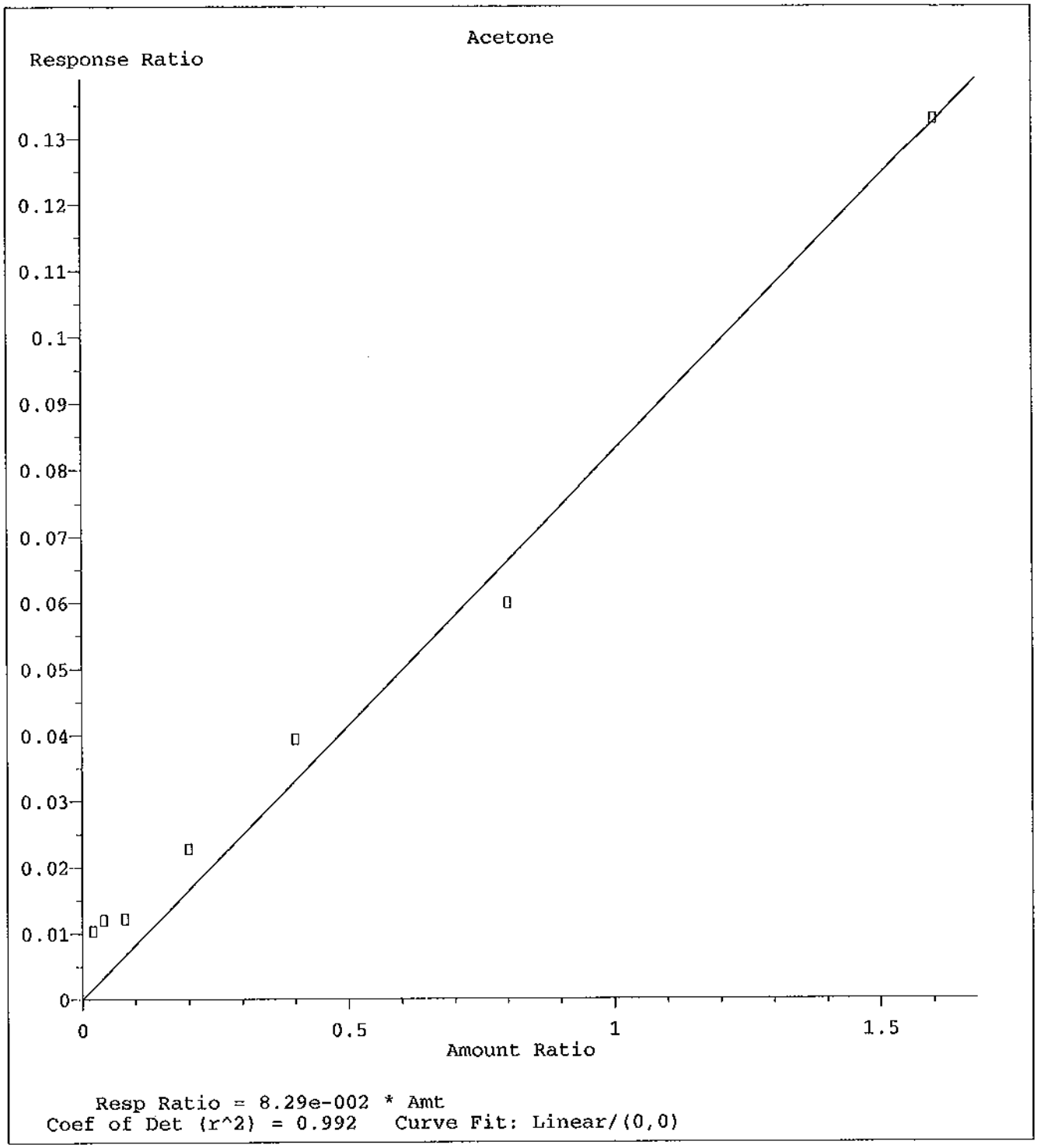
Quantitation Report

Data File : M:\CHICO\DATA\C111104\1104C12W.D Vial: 1
Acq On : 4 Nov 11 18:02 Operator: STC
Sample : VOL STD 11-04-11@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

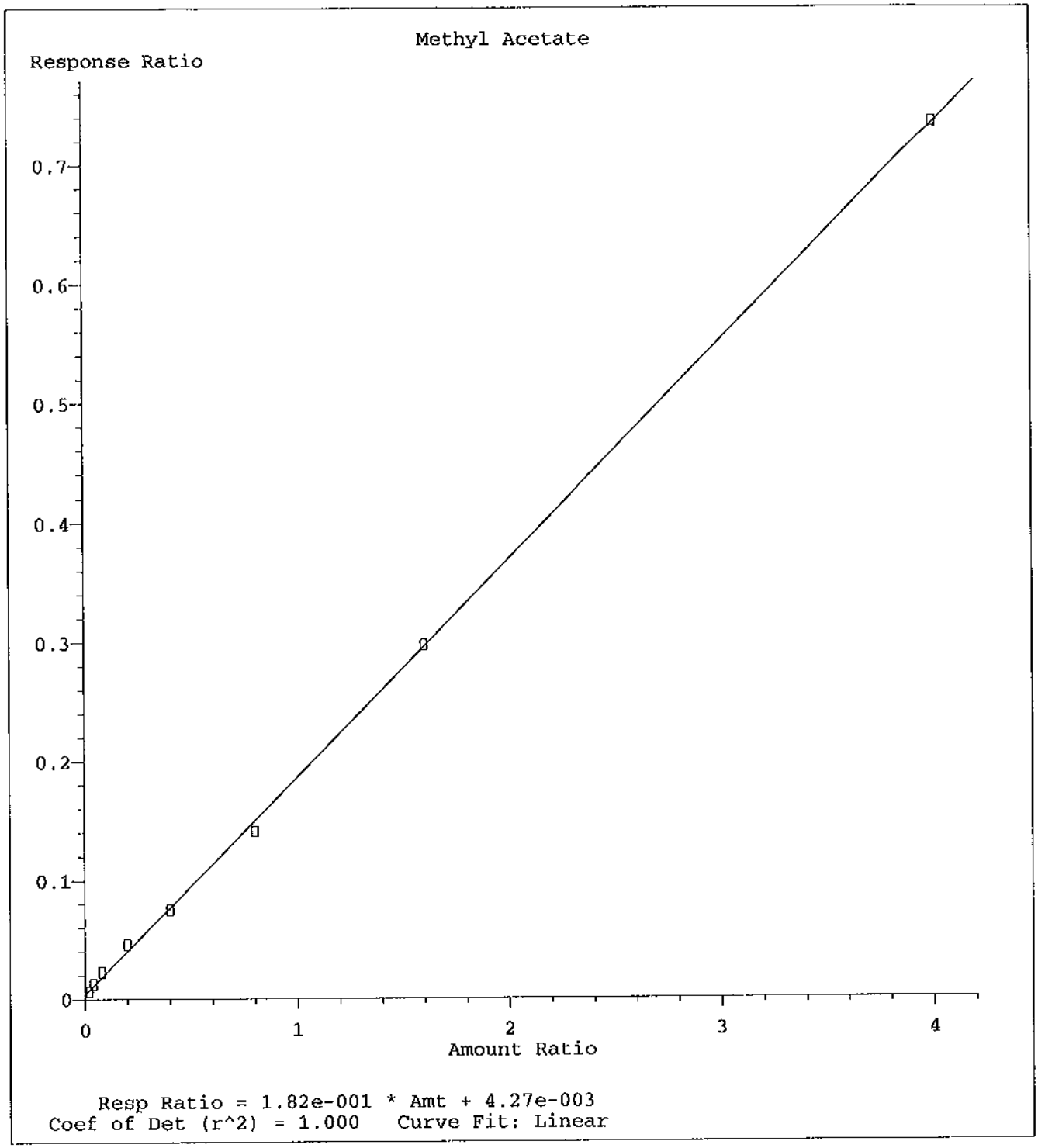
Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration

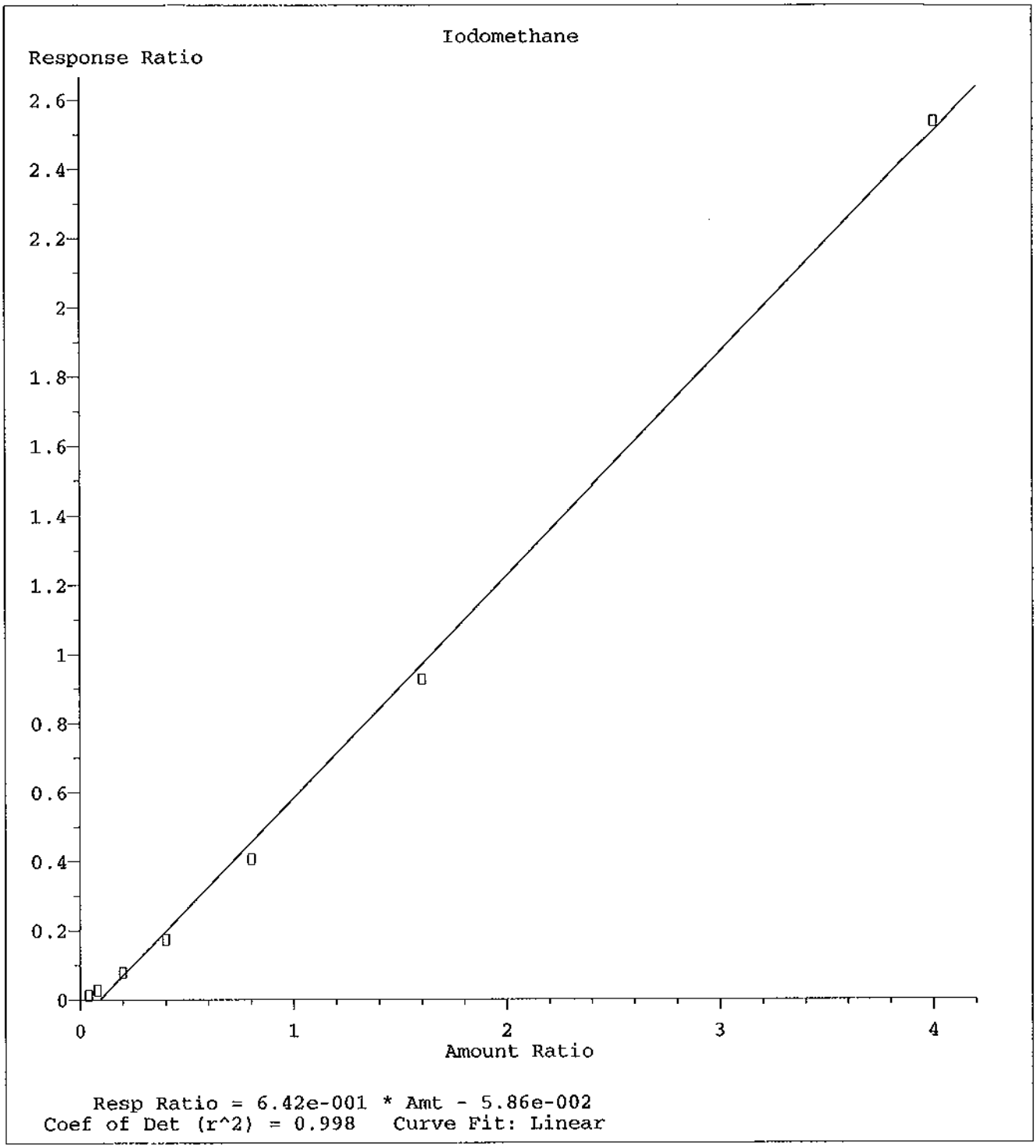




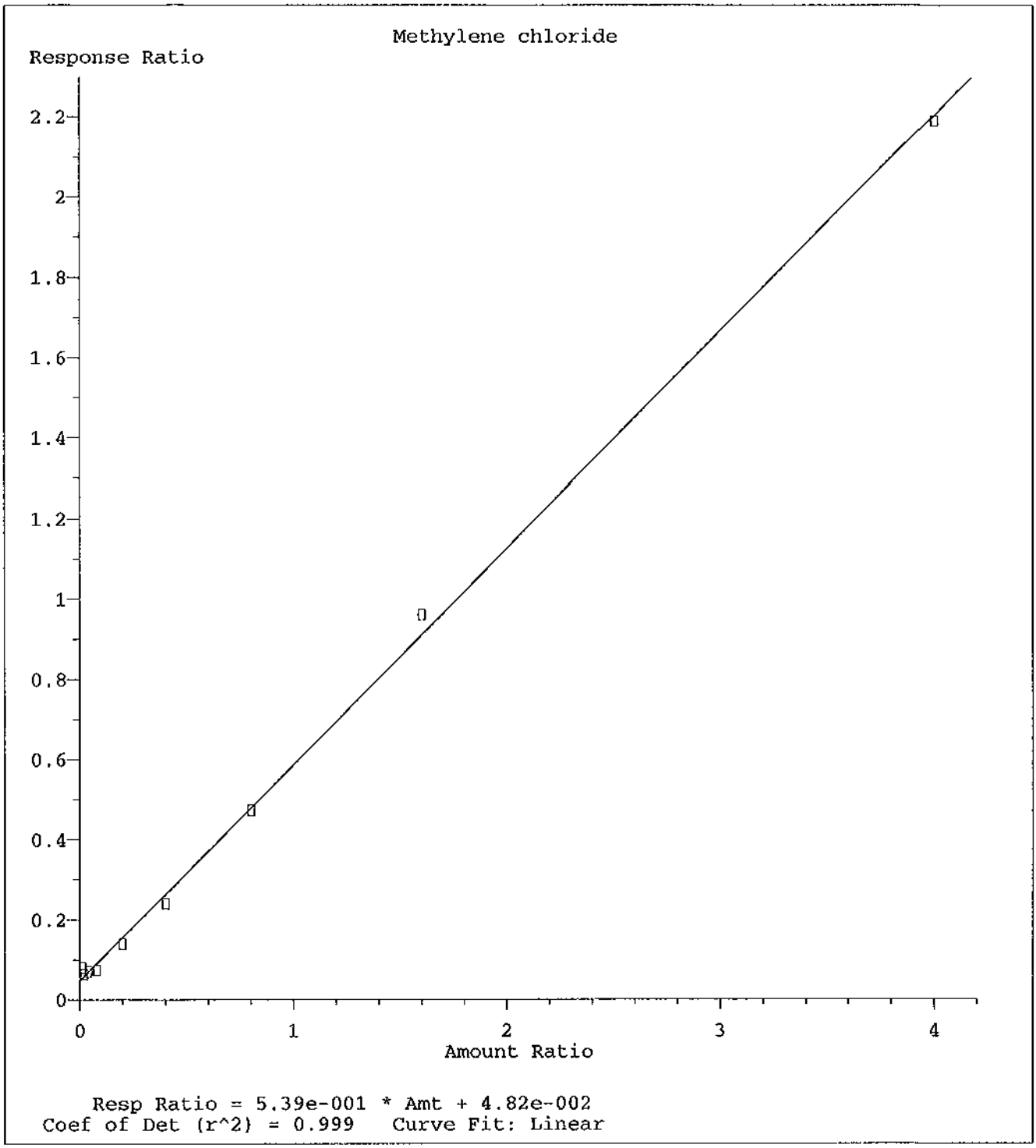
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



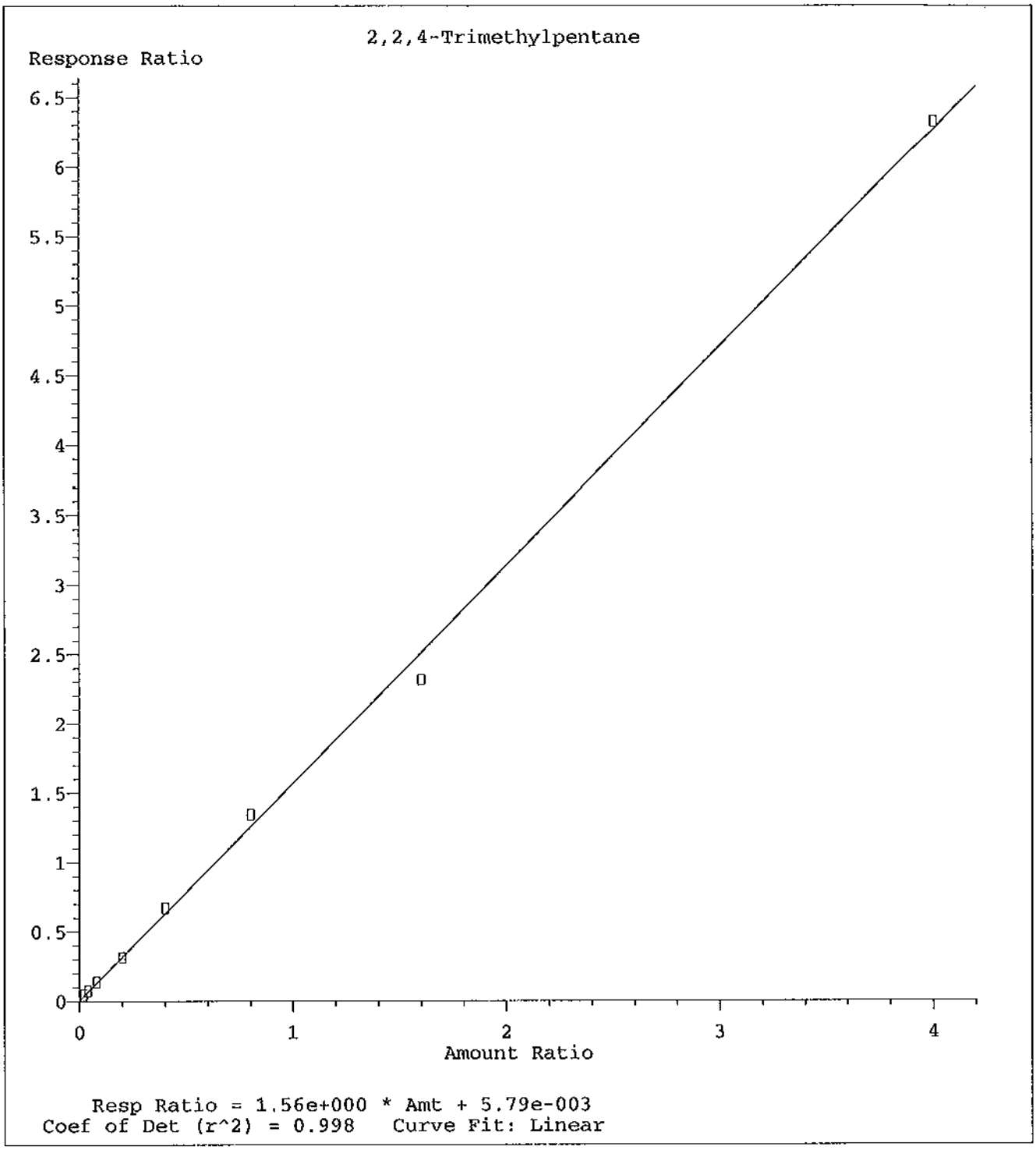
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



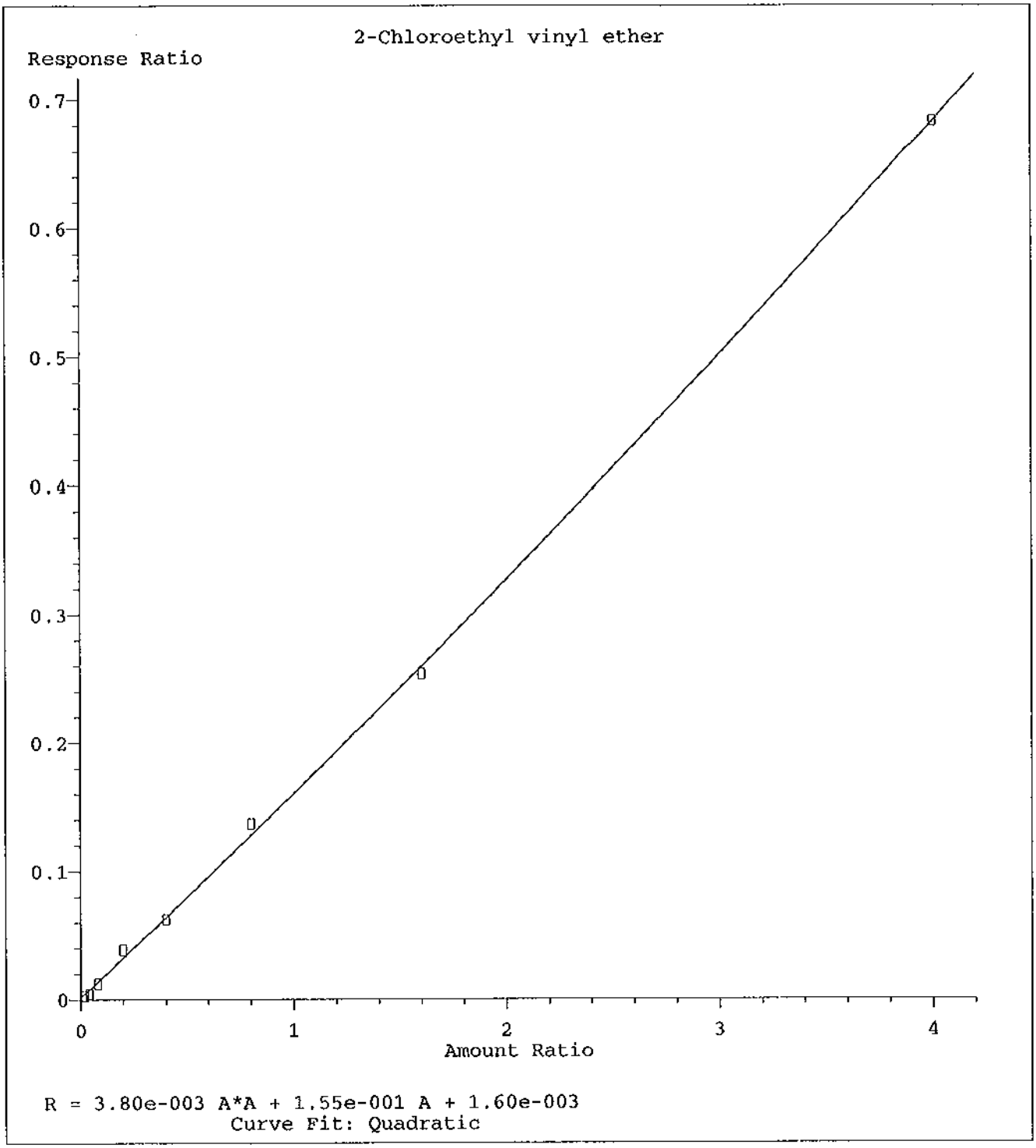
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



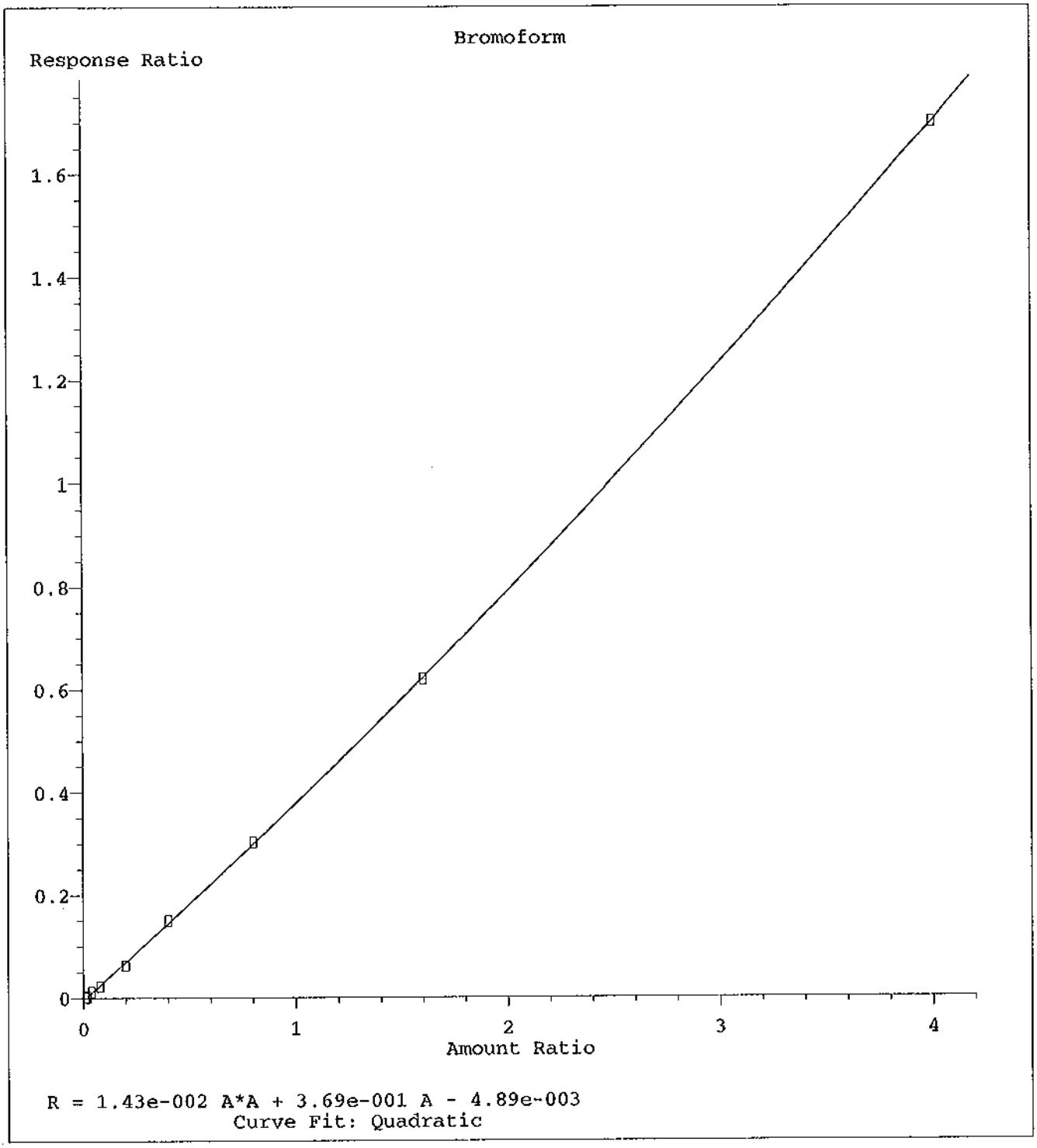
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



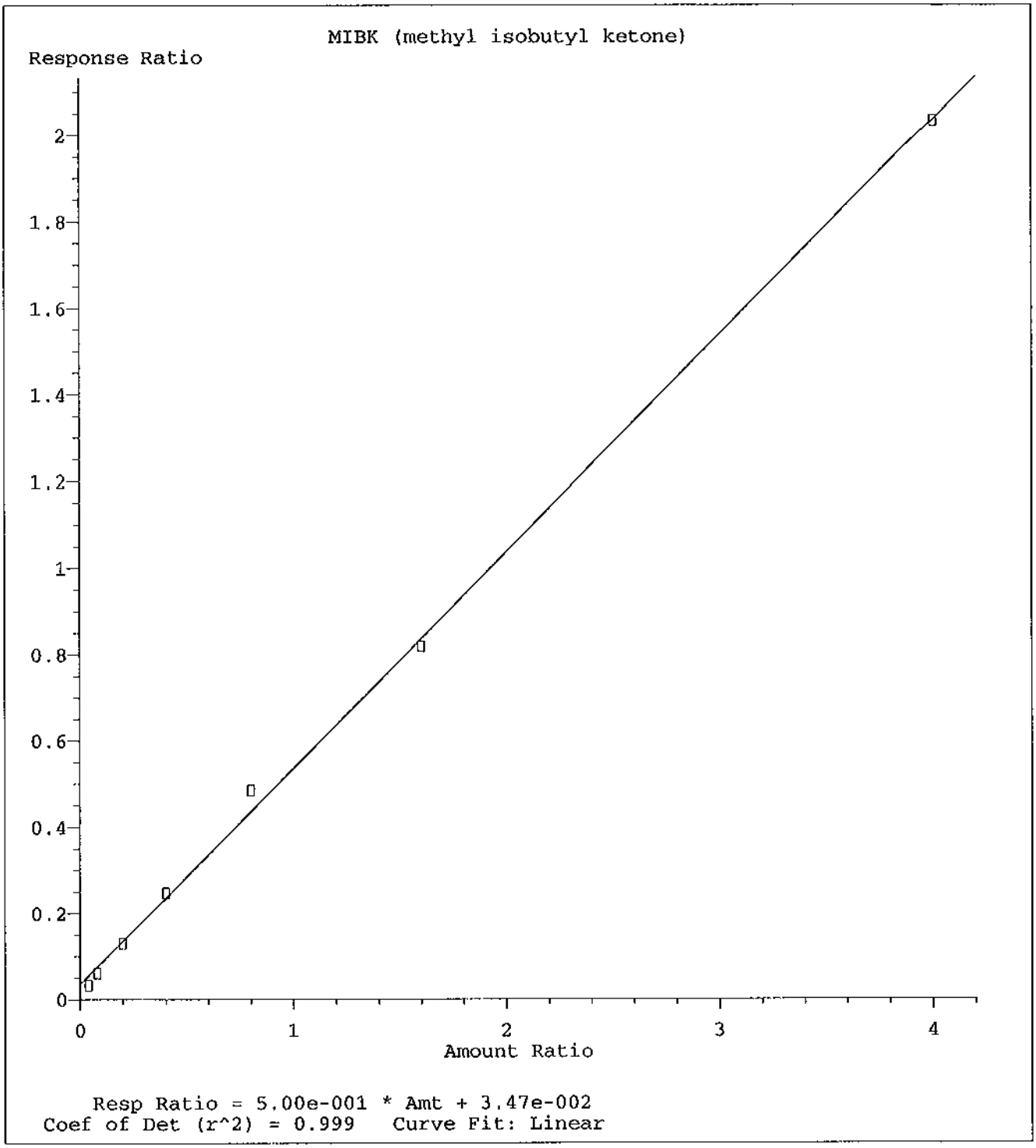
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



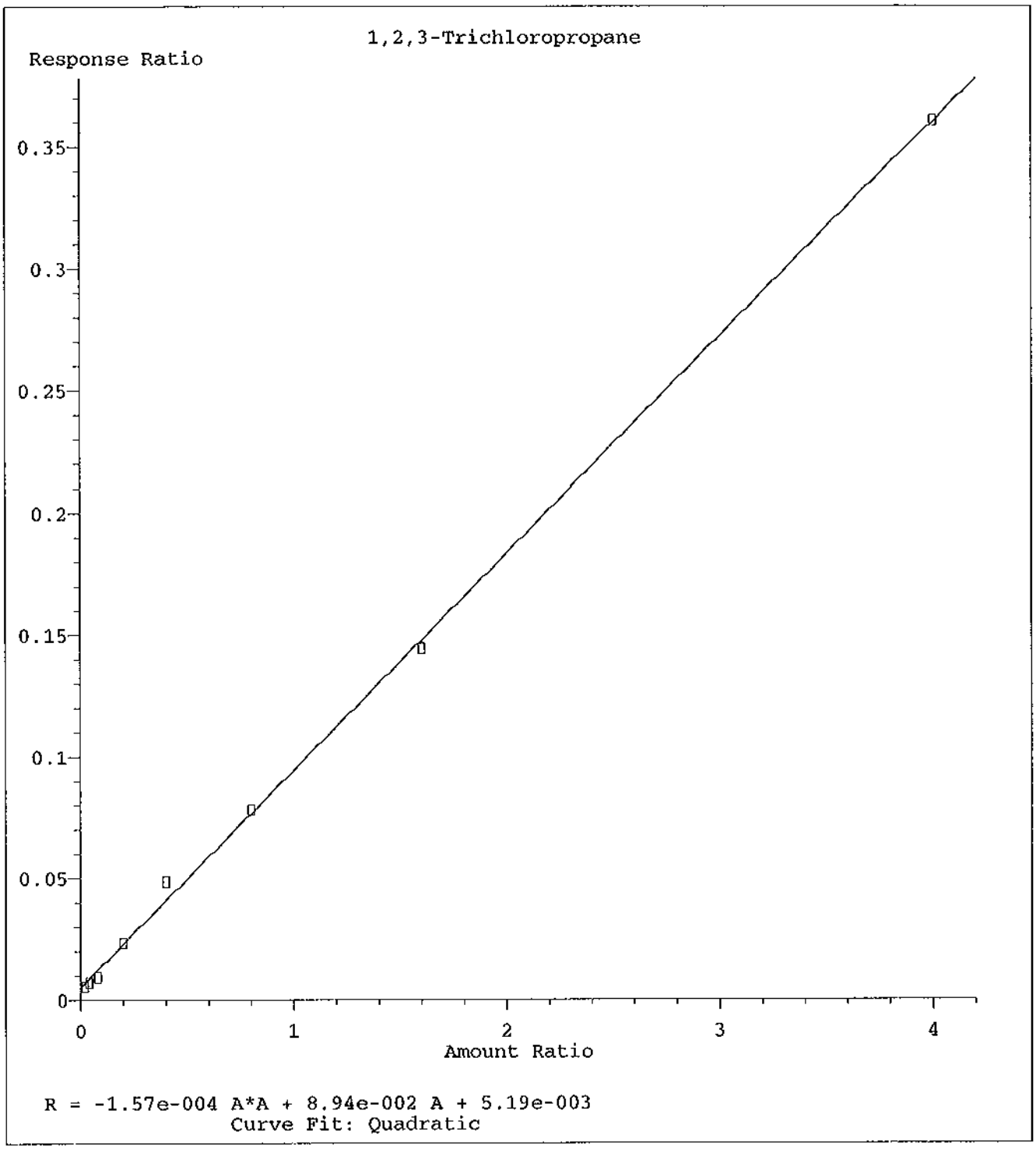
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



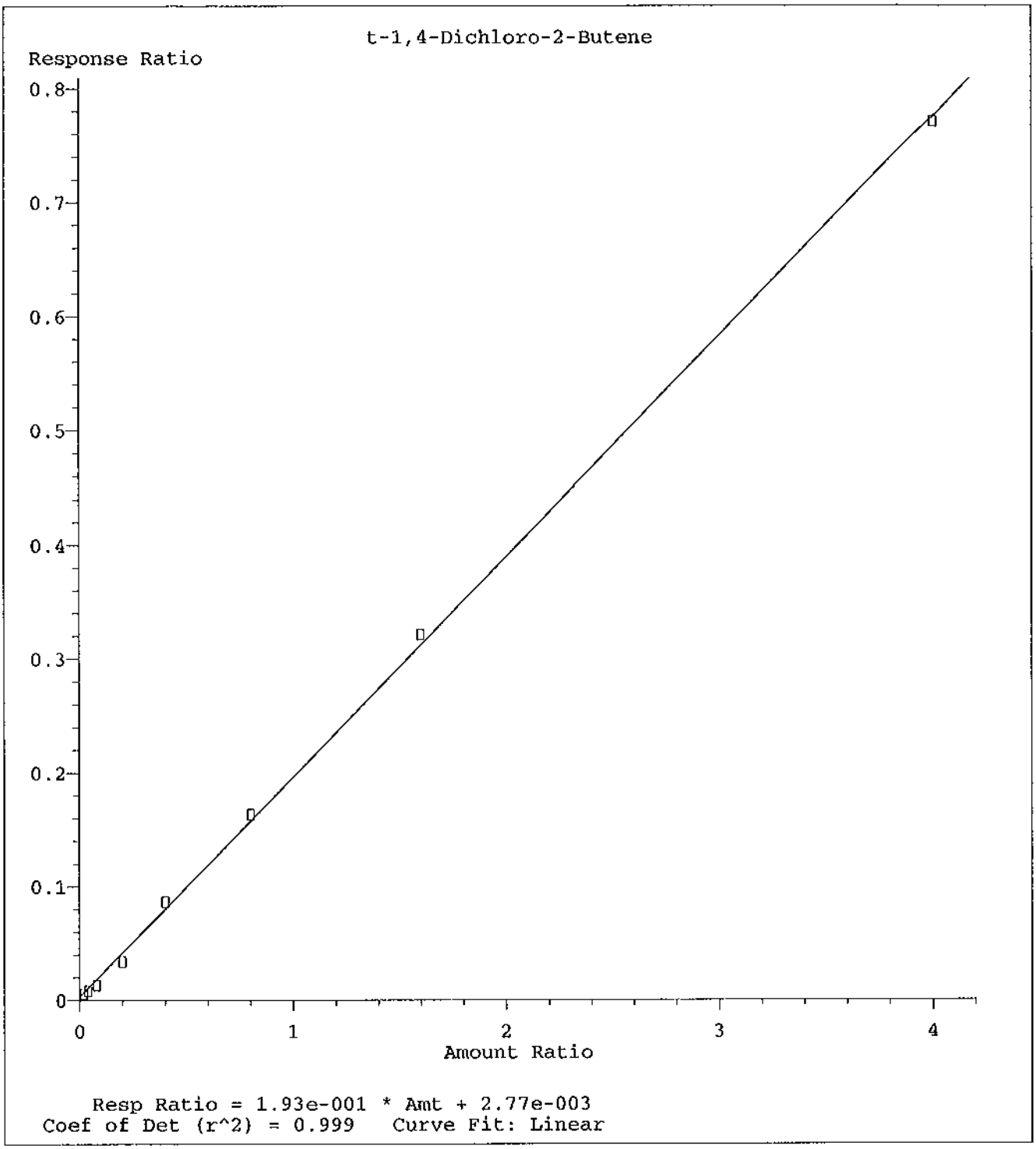
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



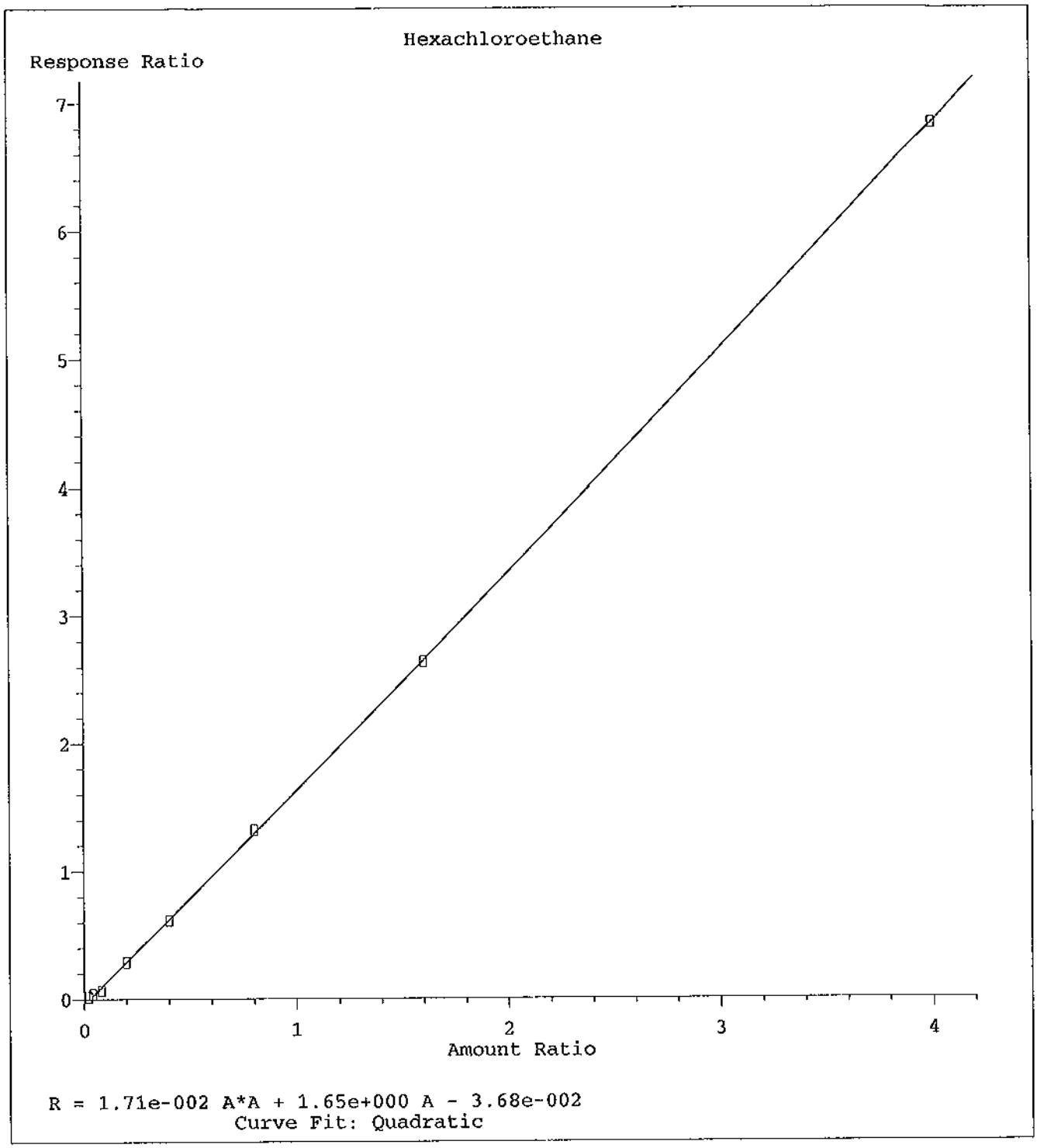
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



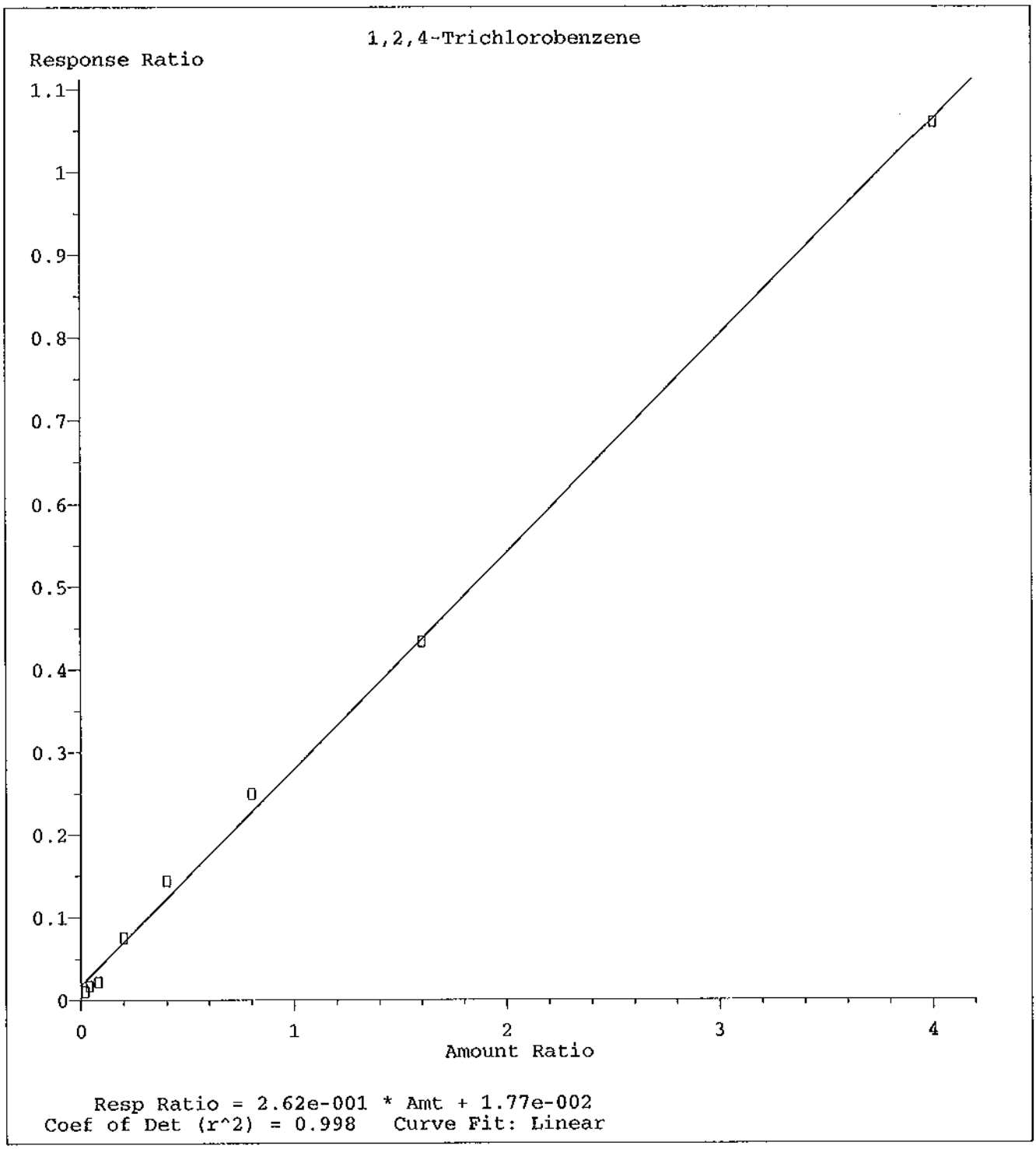
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



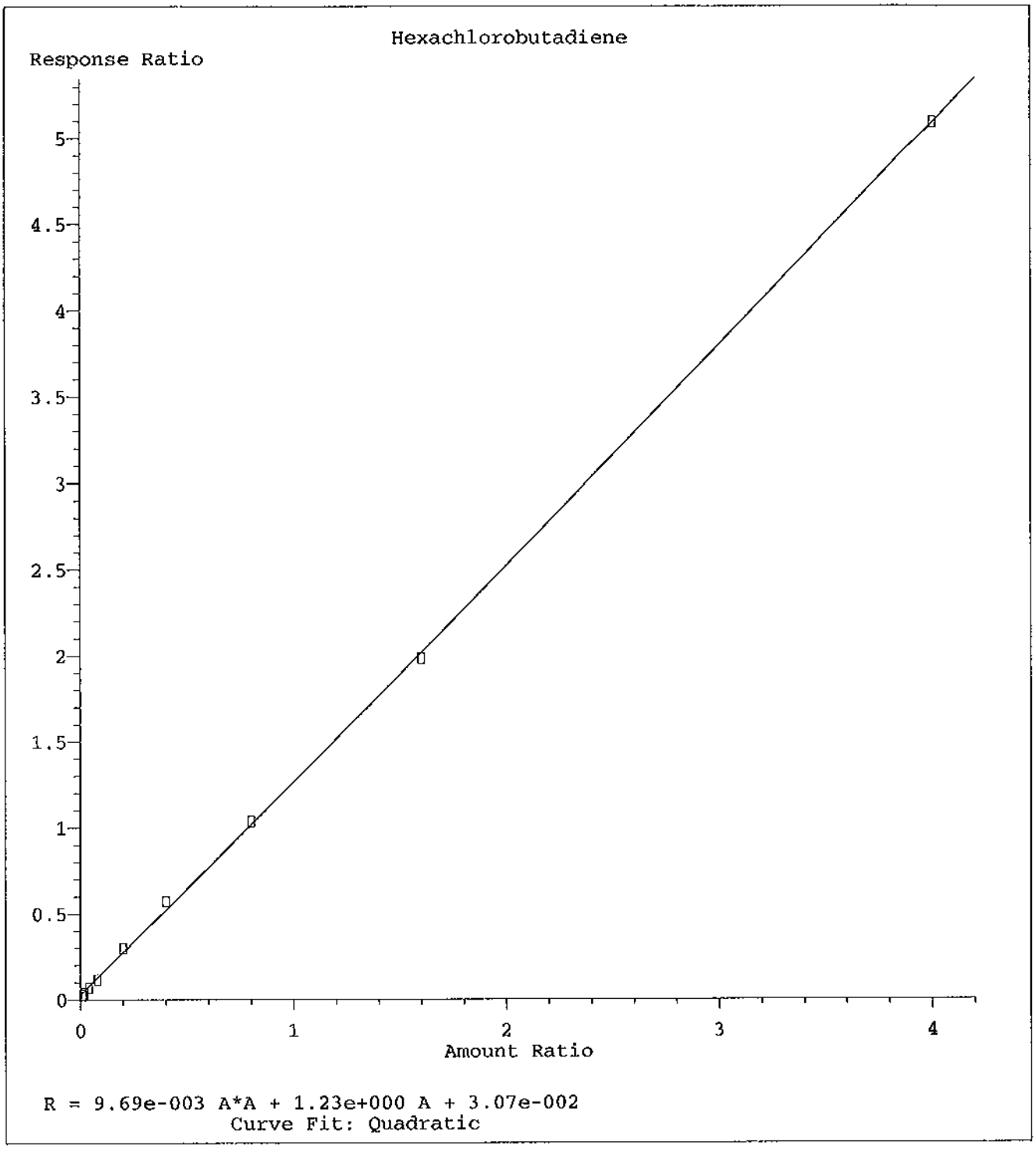
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



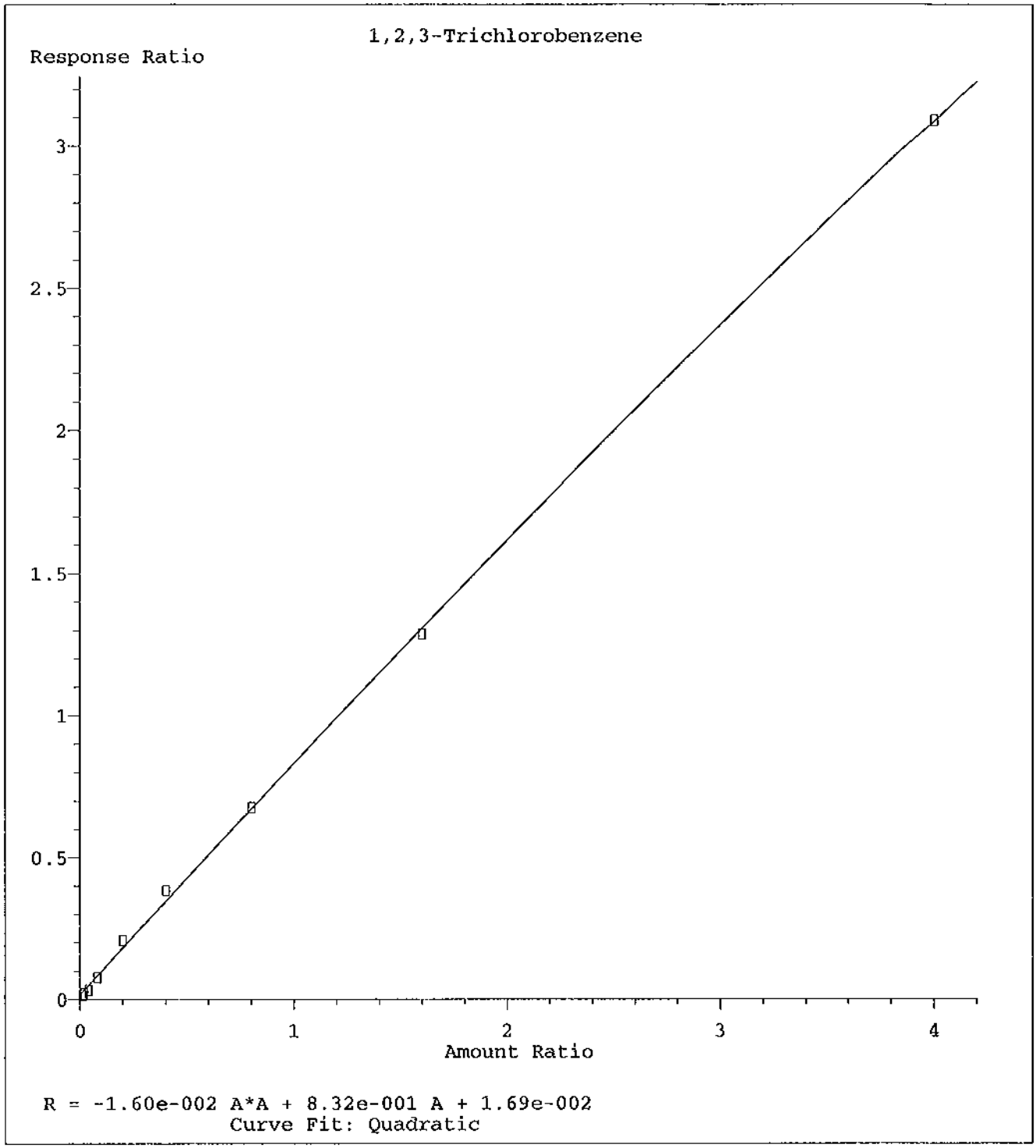
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 66186
Date Analyzed: 4 Nov 11 21:38
Instrument: Chico
Initial Cal. Date: 11/04/11
Data File: 1104C17W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.8369	1.083	29	TM		nt
3	TM	Freon 114	0.6910	0.8405	22	TM		nt
4	TM**	Chloromethane	1.083	1.032	4.7	TM**	✓	
5	TM*	Vinyl chloride	0.8726	0.9581	9.8	TM*	✓	
6	TM	1,3-Butadiene	0.0000	0.0008	0.00	TM		
7	TM	Bromomethane	0.5228	0.5289	1.2	TM		
8	TM	Chloroethane	0.1450	0.1469	1.3	TM		
9	TM	Dichlorofluoromethane	1.798	1.938	7.8	TM		
10	TM	Trichlorofluoromethane	1.205	1.390	15	TM		
11		Acetonitrile	0.0219	0.0271	24			nt
12	TM	Acrolein	0.0106	0.0097	8.1	TM		
13	TML	Acetone	0.1914	0.0967	49	TML	17	
14	TM	Freon-113	0.6633	0.8222	24	TM		nt
15	TM*	1,1-DCE	0.6924	0.7816	13	TM*	✓	
16	TM	t-Butanol	0.0033	0.0036	7.3	TM		
17	TML	Methyl Acetate	0.2360	0.2065	13	TML	7.3	
18	TML	Iodomethane	0.4584	0.7873	72	TML	45	nt
19	TM	Acrylonitrile	0.0741	0.0786	6.2	TM		
20	TML	Methylene chloride	1.728	0.7369	57	TML	14	
21	TM	Carbon disulfide	0.5716	0.6567	15	TM		
22	TM	Methyl t-butyl ether (MtBE)	1.125	1.241	10	TM		
23	TM	Trans-1,2-DCE	0.6924	0.7816	13	TM		
24	TM	Diisopropyl Ether	2.051	2.498	22	TM		nt
25	TM**	1,1-DCA	1.437	1.638	14	TM**	✓	
26	TM	Vinyl Acetate	0.1137	0.1488	31	TM		nt
27	TM	Ethyl tert Butyl Ether	1.735	1.825	5.2	TM		
28	TM	MEK (2-Butanone)	0.3247	0.3166	2.5	TM		
29	TM	Cis-1,2-DCE	0.8939	0.8818	1.4	TM		
30	TM	2,2-Dichloropropane	1.328	1.345	1.3	TM		
31	TM*	Chloroform	1.522	1.520	0.09	TM*	✓	
32	TM	Bromochloromethane	0.2696	0.2605	3.4	TM		
33	S	Dibromofluoromethane(S)	0.8694	0.8084	7.0	S		
34	TM	1,1,1-TCA	1.477	1.547	4.8	TM		
35	TM	Cyclohexane	0.9526	1.001	5.1	TM		
36	TM	1,1-Dichloropropene	1.062	1.028	3.2	TM		
37	TML	2,2,4-Trimethylpentane	1.729	1.778	2.8	TML	13	
38	S	1,2-DCA-D4(S)	0.7609	0.6945	8.7	S		
39	TM	Carbon Tetrachloride	1.128	1.202	6.6	TM		
40	TM	Tert Amyl Methyl Ether	1.263	1.121	11	TM		
		Average			13.7			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66186
Date Analyzed: 4 Nov 11 21:38
Instrument: Chico
Cal. Date: 11/04/11
Data File: 1104C17W.D

		Compound	MEAN	CCRF	%D		%Drift	
41	TM	1,2-DCA	0.8662	0.8041	7.2	TM		
42	TM	Benzene	2.702	2.556	5.4	TM		
43	TM	TCE	0.8552	0.8459	1.1	TM		
44	TM	2-Pentanone	0.1532	0.1385	9.6	TM		
45	TM*	1,2-Dichloropropane	0.6164	0.5698	7.6	TM*	✓	
46	TM	Bromodichloromethane	0.9282	0.8470	8.8	TM		
47	TM	Methyl Cyclohexane	0.8836	0.9409	6.5	TM		
48	TM	Dibromomethane	0.3237	0.2947	9.0	TM		
49	TMQ	2-Chloroethyl vinyl ether	0.1663	0.1298	22	TMQ	20	
50	TM	1-Bromo-2-chloroethane	0.5399	0.4958	8.2	TM		
51	TM	Cis-1,3-Dichloropropene	0.7599	0.7321	3.7	TM		
52	TM*	Toluene	2.866	2.709	5.5	TM*	✓	
53	TM	Trans-1,3-Dichloropropene	0.5775	0.5529	4.3	TM		
54	TM	1,1,2-TCA	0.2849	0.2632	7.6	TM		
55	I	Chlorobenzene-D5 (IS)	ISTD			I		
56	S	Toluene-D8(S)	3.683	3.333	9.5	S		
57	TM	1,2-EDB	0.5317	0.4851	8.8	TM		
58	TM	Tetrachloroethene	1.267	1.206	4.9	TM		
59	TM	1-Chlorohexane	1.355	1.453	7.2	TM		
60	TM	1,1,1,2-Tetrachloroethane	0.9389	0.9030	3.8	TM		
61	TM	m&p-Xylene	1.814	1.797	0.90	TM		
62	TM	o-Xylene	1.728	1.793	3.8	TM		
63	TM	Styrene	2.730	2.716	0.55	TM		
64	S	4-Bromofluorobenzene(S)	1.299	1.275	1.9	S		
65	TM	2-Hexanone	0.2068	0.1624	21	TM		nt
66	TM	1,3-Dichloropropane	0.8715	0.7889	9.5	TM		
67	TM	Dibromochloromethane	0.7424	0.6921	6.8	TM	✓	
68	TM**	Chlorobenzene	2.713	2.644	2.5	TM**	✓	
69	TM*	Ethylbenzene	4.738	4.779	0.86	TM*	✓	
70	TM**Q	Bromoform	0.2955	0.3240	9.6	TM**Q	10	
71	I	1,4-Dichlorobenzene-D (IS)	ISTD			I		
72	TML	MIBK (methyl isobutyl ketone)	0.6373	0.5287	17	TML	12	
73	TM	Isopropylbenzene	9.335	9.530	2.1	TM		
74	TM**	1,1,2,2-Tetrachloroethane	0.7939	0.7892	0.60	TM**	✓	
75	TMQ	1,2,3-Trichloropropane	0.1353	0.1026	24	TMQ	0.29	
76	TML	t-1,4-Dichloro-2-Butene	0.2032	0.1804	11	TML	10	
77	TM	Bromobenzene	2.050	2.051	0.05	TM		
78	TM	n-Propylbenzene	10.6	11.0	3.2	TM		
79	TM	4-Ethyltoluene	7.433	7.608	2.4	TM		
80	TM	2-Chlorotoluene	7.098	7.129	0.43	TM		
		Average			6.8			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66186
Date Analyzed: 4 Nov 11 21:38
Instrument: Chico
Cal. Date: 11/04/11
Data File: 1104C17W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,3,5-Trimethylbenzene	7.750	7.845	1.2	TM	
82	TM	4-Chlorotoluene	6.236	5.954	4.5	TM	
83	TM	Tert-Butylbenzene	8.231	8.534	3.7	TM	
84	TM	1,2,4-Trimethylbenzene	7.613	7.807	2.5	TM	
85	TM	Sec-Butylbenzene	9.947	10.2	2.8	TM	
86	TM	p-Isopropyltoluene	8.745	8.884	1.6	TM	
87	TM	Benzyl Chloride	1.482	1.410	4.8	TM	
88	TM	1,3-DCB	4.028	4.083	1.4	TM	
89	TM	1,4-DCB	3.774	3.939	4.4	TM	
90	TMQ	Hexachloroethane	1.320	1.519	15	TMQ	2.7
91	TM	n-Butylbenzene	7.363	7.453	1.2	TM	
92	TM	1,2-DCB	3.335	3.299	1.1	TM	
93	TM	1,2-Dibromo-3-chloropropane	0.1210	0.1039	14	TM	
94	TML	1,2,4-Trichlorobenzene	0.3487	0.2875	18	TML	7.1
95	TMQ	Hexachlorobutadiene	1.549	1.333	14	TMQ	2.2
96	TM	Naphthalene	3.551	2.941	17	TM	
97	TMQ	1,2,3-Trichlorobenzene	0.9393	0.8264	12	TMQ	5.0
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			7.0		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C17W.D Vial: 1
Acq On : 4 Nov 11 21:38 Operator: STC
Sample : 111104A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

$\frac{146874 \times 25}{383232 \times 0.8726} = 10.98$

SV 12-9-11

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.87	96	383232	25.00000	ppb		0.00
55) Chlorobenzene-D5 (IS)	18.06	117	285952	25.00000	ppb		0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	145408	25.00000	ppb		0.00
System Monitoring Compounds							
33) Dibromofluoromethane(S)	11.45	111	309786	23.24442	ppb		-0.02
Spiked Amount 21.097			Recovery = 110.175%				
38) 1,2-DCA-D4(S)	12.26	65	266154	22.81965	ppb		0.00
Spiked Amount 21.225			Recovery = 107.513%				
56) Toluene-D8(S)	15.53	98	953139	22.62473	ppb		-0.02
Spiked Amount 25.808			Recovery = 87.666%				
64) 4-Bromofluorobenzene(S)	20.14	95	364641	24.53737	ppb		0.00
Spiked Amount 25.459			Recovery = 96.377%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.09	85	166034	12.94255	ppb		100
3) Freon 114	4.36	85	128839	12.16263	ppb		98
4) Chloromethane	4.57	50	158139	9.52791	ppb		96
5) Vinyl chloride	4.84	62	146874	10.97959	ppb		100
7) Bromomethane	5.75	94	81078	10.11613	ppb		88
8) Chloroethane	5.94	64	22520	10.13030	ppb	#	72
9) Dichlorofluoromethane	6.03	67	297115	10.78228	ppb		99
10) Trichlorofluoromethane	6.55	101	213021	11.53287	ppb		84
11) Acetonitrile	7.67	41	51847	154.60056	ug/l		100
12) Acrolein	7.18	56	18650	114.93491	ppb		80
13) Acetone	7.29	43	14816	11.65939	ppb	#	78
14) Freon-113	7.49	101	126039	12.39606	ppb		90
15) 1,1-DCE	7.71	96	119819	11.28904	ppb		91
16) t-Butanol	7.79	59	6826	134.15236	ppb		96
17) Methyl Acetate	8.21	43	31649	10.73342	ppb		96
18) Iodomethane	8.19	142	120681	14.53541	ppb		96
19) Acrylonitrile	8.59	53	12053	10.61510	ppb		92
20) Methylene chloride	8.49	84	112959	11.43186	ppb		99
21) Carbon disulfide	8.58	76	100664	11.48919	ppb		99
22) Methyl t-butyl ether (MtBE	8.91	73	190222	11.03073	ppb		93
23) Trans-1,2-DCE	7.71	96	119819	11.28904	ppb		90
24) Diisopropyl Ether	9.77	45	382971	12.18020	ppb		93
25) 1,1-DCA	9.82	63	251053	11.39548	ppb		93
26) Vinyl Acetate	9.45	43	22816	13.09611	ppb		87
27) Ethyl tert Butyl Ether	10.47	59	279686	10.51547	ppb		94
28) MEK (2-Butanone)	10.46	43	48540	9.75197	ppb	#	82
29) Cis-1,2-DCE	10.84	96	135177	9.86444	ppb		94
30) 2,2-Dichloropropane	10.84	77	206251	10.13387	ppb	#	82
31) Chloroform	11.12	83	233072	9.99057	ppb		97
32) Bromochloromethane	11.35	128	39929	9.65999	ppb		86
34) 1,1,1-TCA	11.86	97	237216	10.47598	ppb		98
35) Cyclohexane	12.03	56	153520	10.51367	ppb		99
36) 1,1-Dichloropropene	12.12	75	157550	9.68078	ppb		97
37) 2,2,4-Trimethylpentane	12.21	57	272496	11.26831	ppb		99
39) Carbon Tetrachloride	12.33	117	184323	10.65611	ppb	#	92
40) Tert Amyl Methyl Ether	12.37	73	171861	8.87970	ppb		96
41) 1,2-DCA	12.40	62	123260	9.28286	ppb	#	92
42) Benzene	12.53	78	391892	9.46210	ppb		98
43) TCE	13.56	95	129673	9.89150	ppb		89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1104C17W.D Vial: 1
Acq On : 4 Nov 11 21:38 Operator: STC
Sample : 111104A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44) 2-Pentanone	13.23	43	265441	113.00259	ppb		97
45) 1,2-Dichloropropane	13.79	63	87350	9.24480	ppb		96
46) Bromodichloromethane	14.14	83	129834	9.12476	ppb		93
47) Methyl Cyclohexane	13.84	83	144231	10.64773	ppb		98
48) Dibromomethane	14.20	93	45174	9.10431	ppb		96
49) 2-Chloroethyl vinyl ether	14.60	63	19893	8.04430	ppb	#	75
50) 1-Bromo-2-chloroethane	14.91	63	76001	9.18232	ppb		98
51) Cis-1,3-Dichloropropene	15.03	75	112225	9.63387	ppb		88
52) Toluene	15.66	91	415293	9.45177	ppb		97
53) Trans-1,3-Dichloropropene	15.84	75	84755	9.57395	ppb		92
54) 1,1,2-TCA	16.11	83	40341	9.23805	ppb		96
57) 1,2-EDB	17.35	107	55485	9.12311	ppb	#	81
58) Tetrachloroethene	16.81	164	137909	9.51454	ppb		98
59) 1-Chlorohexane	17.73	91	166225	10.72193	ppb		93
60) 1,1,1,2-Tetrachloroethane	18.19	131	103282	9.61726	ppb		96
61) m&p-Xylene	18.38	106	411158	19.81947	ppb		98
62) o-Xylene	19.13	106	205121	10.37547	ppb		99
63) Styrene	19.16	104	310601	9.94538	ppb		90
65) 2-Hexanone	16.14	43	18579	7.85513	ppb		78
66) 1,3-Dichloropropane	16.51	76	90236	9.05216	ppb		98
67) Dibromochloromethane	17.00	129	79166	9.32324	ppb		89
68) Chlorobenzene	18.13	112	302445	9.74529	ppb		95
69) Ethylbenzene	18.25	91	546628	10.08595	ppb		89
70) Bromoform	19.68	173	37064	8.98718	ppb		93
72) MIBK (methyl isobutyl keto	14.71	43	30749	8.82929	ppb		85
73) Isopropylbenzene	19.76	105	554319	10.20910	ppb		93
74) 1,1,2,2-Tetrachloroethane	19.93	83	45901	9.94042	ppb		89
75) 1,2,3-Trichloropropane	20.18	110	5967	10.02879	ppb		79
76) t-1,4-Dichloro-2-Butene	20.26	53	10493	8.97723	ppb		95
77) Bromobenzene	20.50	156	119307	10.00454	ppb		96
78) n-Propylbenzene	20.47	91	637698	10.31789	ppb		98
79) 4-Ethyltoluene	20.66	105	442515	10.23544	ppb		96
80) 2-Chlorotoluene	20.76	91	414623	10.04288	ppb		99
81) 1,3,5-Trimethylbenzene	20.74	105	456304	10.12270	ppb		100
82) 4-Chlorotoluene	20.85	91	346309	9.54764	ppb		96
83) Tert-Butylbenzene	21.39	119	496340	10.36765	ppb		92
84) 1,2,4-Trimethylbenzene	21.45	105	454065	10.25464	ppb		94
85) Sec-Butylbenzene	21.79	105	594456	10.27533	ppb		99
86) p-Isopropyltoluene	22.02	119	516723	10.15853	ppb		100
87) Benzyl Chloride	22.45	91	82013	9.51574	ppb		98
88) 1,3-DCB	22.15	146	237502	10.13687	ppb		94
89) 1,4-DCB	22.33	146	229121	10.43832	ppb		95
90) Hexachloroethane	23.62	117	88323	9.72566	ppb		93
91) n-Butylbenzene	22.72	91	433510	10.12269	ppb		98
92) 1,2-DCB	22.95	146	191902	9.89210	ppb		95
93) 1,2-Dibromo-3-chloropropan	24.17	155	6044	8.59114	ppb	#	66
94) 1,2,4-Trichlorobenzene	25.62	145	16720	9.29112	ppb		99
95) Hexachlorobutadiene	25.89	223	77536	10.22041	ppb		97
96) Naphthalene	25.99	128	171072	8.28298	ppb		95
97) 1,2,3-Trichlorobenzene	26.37	180	48064	9.49647	ppb		98

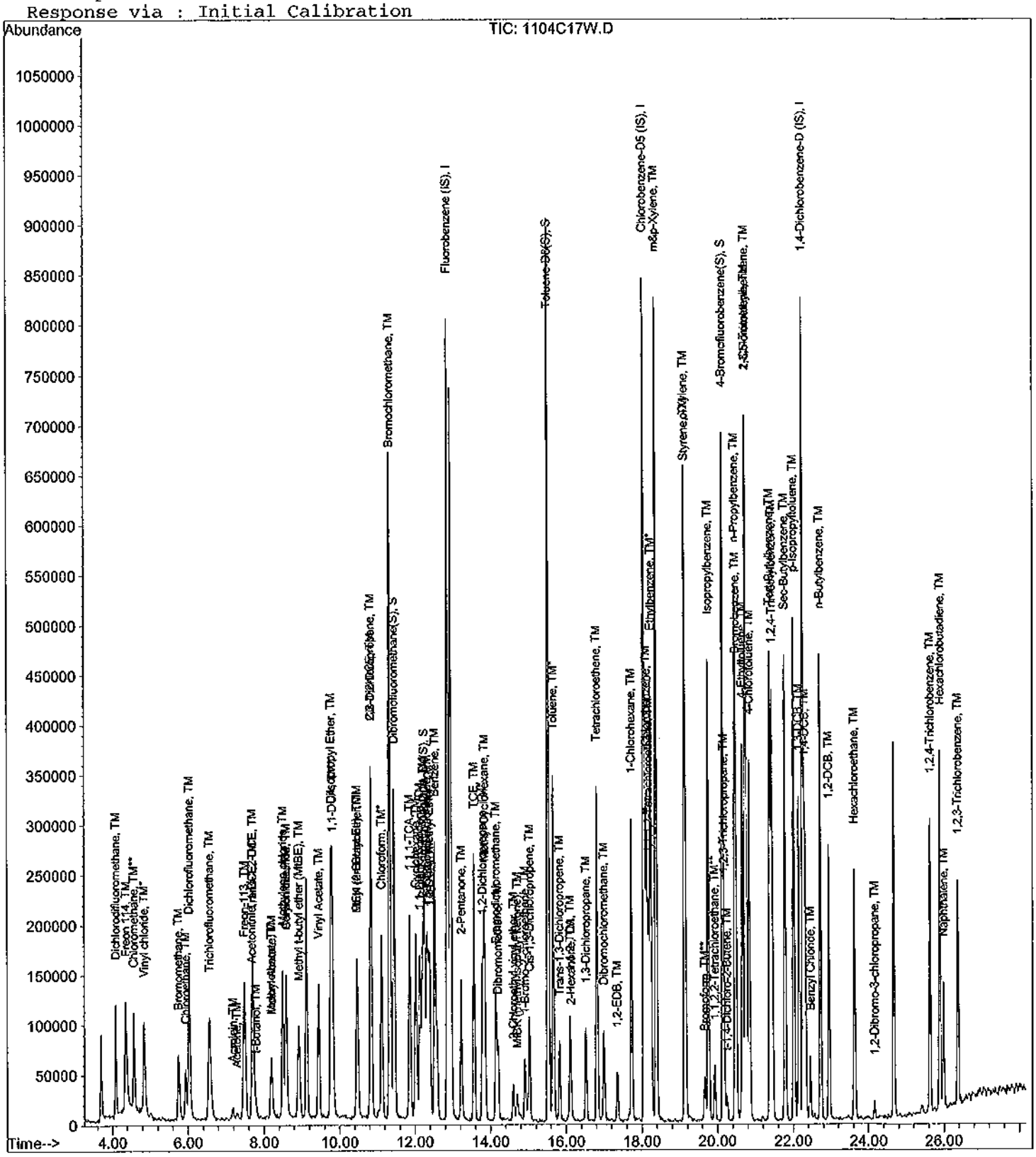
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1104C17W.D Vial: 1
Acq On : 4 Nov 11 21:38 Operator: STC
Sample : 111104A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 66186
Date Analyzed: 5 Nov 11 12:02
Instrument: Chico
Initial Cal. Date: 11/04/11
Data File: 1105C02W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.8369	0.7851	6.2	TM		
3	TM	Freon 114	0.6910	0.6254	9.5	TM		
4	TM**	Chloromethane	1.083	0.9432	13	TM**	✓	
5	TM*	Vinyl chloride	0.8726	0.7242	17	TM*		
6	TM	1,3-Butadiene	0.0000	0.0010	0.00	TM		
7	TM	Bromomethane	0.5228	0.4681	10	TM		
8	TM	Chloroethane	0.1450	0.1743	20	TM		
9	TM	Dichlorofluoromethane	1.798	1.742	3.1	TM		
10	TM	Trichlorofluoromethane	1.205	1.033	14	TM		
11		Acetonitrile	0.0219	0.0297	36			nt
12	TM	Acrolein	0.0106	0.0108	2.0	TM		
13	TML	Acetone	0.1914	0.0970	49	TML	17	
14	TM	Freon-113	0.6633	0.6448	2.8	TM		
15	TM*	1,1-DCE	0.6924	0.6238	9.9	TM*	✓	
16	TM	t-Butanol	0.0033	0.0039	18	TM		
17	TML	Methyl Acetate	0.2360	0.2042	13	TML	6.1	
18	TML	Iodomethane	0.4584	0.4445	3.0	TML	8.0	
19	TM	Acrylonitrile	0.0741	0.0792	6.9	TM		
20	TML	Methylene chloride	1.728	0.6257	64	TML	6.3	
21	TM	Carbon disulfide	0.5716	0.6036	5.6	TM		
22	TM	Methyl t-butyl ether (MtBE)	1.125	1.021	9.2	TM		
23	TM	Trans-1,2-DCE	0.6924	0.6238	9.9	TM		
24	TM	Diisopropyl Ether	2.051	2.325	13	TM		
25	TM**	1,1-DCA	1.437	1.441	0.26	TM**	✓	
26	TM	Vinyl Acetate	0.1137	0.1472	30	TM		nt
27	TM	Ethyl tert Butyl Ether	1.735	1.623	6.5	TM		
28	TM	MEK (2-Butanone)	0.3247	0.2920	10	TM		
29	TM	Cis-1,2-DCE	0.8939	0.7986	11	TM		
30	TM	2,2-Dichloropropane	1.328	1.186	11	TM		
31	TM*	Chloroform	1.522	1.354	11	TM*	✓	
32	TM	Bromochloromethane	0.2696	0.2307	14	TM		
33	S	Dibromofluoromethane(S)	0.8694	0.8279	4.8	S		
34	TM	1,1,1-TCA	1.477	1.252	15	TM		
35	TM	Cyclohexane	0.9526	1.154	21	TM		nt
36	TM	1,1-Dichloropropene	1.062	1.012	4.7	TM		
37	TML	2,2,4-Trimethylpentane	1.729	1.864	7.8	TML	18	
38	S	1,2-DCA-D4(S)	0.7609	0.6699	12	S		
39	TM	Carbon Tetrachloride	1.128	0.9233	18	TM		
40	TM	Tert Amyl Methyl Ether	1.263	1.145	9.3	TM		
		Average			13.4			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66186
Date Analyzed: 5 Nov 11 12:02
Instrument: Chico
Cal. Date: 11/04/11
Data File: 1105C02W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	1,2-DCA	0.8662	0.6991	19	TM	
42	TM	Benzene	2.702	2.863	5.9	TM	
43	TM	TCE	0.8552	0.7844	8.3	TM	
44	TM	2-Pentanone	0.1532	0.1741	14	TM	
45	TM*	1,2-Dichloropropane	0.6164	0.6905	12	TM*	✓
46	TM	Bromodichloromethane	0.9282	0.8244	11	TM	
47	TM	Methyl Cyclohexane	0.8836	0.9955	13	TM	
48	TM	Dibromomethane	0.3237	0.2887	11	TM	
49	TMQ	2-Chloroethyl vinyl ether	0.1663	0.1509	9.2	TMQ	6.1
50	TM	1-Bromo-2-chloroethane	0.5399	0.5788	7.2	TM	
51	TM	Cis-1,3-Dichloropropene	0.7599	0.7813	2.8	TM	
52	TM*	Toluene	2.866	2.831	1.2	TM*	✓
53	TM	Trans-1,3-Dichloropropene	0.5775	0.5443	5.7	TM	
54	TM	1,1,2-TCA	0.2849	0.2931	2.9	TM	
55	I	Chlorobenzene-D5 (IS)	ISTD			I	
56	S	Toluene-D8(S)	3.683	3.519	4.5	S	
57	TM	1,2-EDB	0.5317	0.4671	12	TM	
58	TM	Tetrachloroethene	1.267	1.135	10	TM	
59	TM	1-Chlorohexane	1.355	1.455	7.4	TM	
60	TM	1,1,1,2-Tetrachloroethane	0.9389	0.8573	8.7	TM	
61	TM	m&p-Xylene	1.814	1.772	2.3	TM	
62	TM	o-Xylene	1.728	1.765	2.1	TM	
63	TM	Styrene	2.730	2.670	2.2	TM	
64	S	4-Bromofluorobenzene(S)	1.299	1.319	1.5	S	
65	TM	2-Hexanone	0.2068	0.2246	8.6	TM	
66	TM	1,3-Dichloropropane	0.8715	0.9196	5.5	TM	
67	TM	Dibromochloromethane	0.7424	0.6310	15	TM	
68	TM**	Chlorobenzene	2.713	2.573	5.2	TM**	✓
69	TM*	Ethylbenzene	4.738	4.712	0.56	TM*	✓
70	TM**Q	Bromoform	0.2955	0.2923	1.1	TM**Q	19
71	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
72	TML	MIBK (methyl isobutyl ketone)	0.6373	0.6498	2.0	TML	12
73	TM	Isopropylbenzene	9.335	8.879	4.9	TM	
74	TM**	1,1,2,2-Tetrachloroethane	0.7939	0.8756	10	TM**	✓
75	TMQ	1,2,3-Trichloropropane	0.1353	0.0906	33	TMQ	13
76	TML	t-1,4-Dichloro-2-Butene	0.2032	0.1862	8.4	TML	7.2
77	TM	Bromobenzene	2.050	1.944	5.2	TM	
78	TM	n-Propylbenzene	10.6	10.8	1.6	TM	
79	TM	4-Ethyltoluene	7.433	7.612	2.4	TM	
80	TM	2-Chlorotoluene	7.098	7.077	0.30	TM	
		Average			7.3		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66186
Date Analyzed: 5 Nov 11 12:02
Instrument: Chico
Cal. Date: 11/04/11
Data File: 1105C02W.D

		Compound	MEAN	CCRF	%D		%Drift	
81	TM	1,3,5-Trimethylbenzene	7.750	7.247	6.5	TM		
82	TM	4-Chlorotoluene	6.236	6.078	2.5	TM		
83	TM	Tert-Butylbenzene	8.231	8.192	0.47	TM		
84	TM	1,2,4-Trimethylbenzene	7.613	7.471	1.9	TM		
85	TM	Sec-Butylbenzene	9.947	10.1	1.9	TM		
86	TM	p-Isopropyltoluene	8.745	8.532	2.4	TM		
87	TM	Benzyl Chloride	1.482	1.565	5.6	TM		
88	TM	1,3-DCB	4.028	4.213	4.6	TM		
89	TM	1,4-DCB	3.774	4.014	6.4	TM		
90	TMQ	Hexachloroethane	1.320	1.402	6.2	TMQ	9.8	
91	TM	n-Butylbenzene	7.363	7.398	0.47	TM		
92	TM	1,2-DCB	3.335	3.392	1.7	TM		
93	TM	1,2-Dibromo-3-chloropropane	0.1210	0.1330	10.0	TM		
94	TML	1,2,4-Trichlorobenzene	0.3487	0.2630	25	TML	16	
95	TMQ	Hexachlorobutadiene	1.549	1.156	25	TMQ	12	
96	TM	Naphthalene	3.551	3.109	12	TM		
97	TMQ	1,2,3-Trichlorobenzene	0.9393	0.6883	27	TMQ	22	nt
98								
99								
100								
101								
102								
103								
104								
105								
106								
107								
108								
109								
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								
120								
		Average			8.2			

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C02W.D Vial: 1
Acq On : 5 Nov 11 12:02 Operator: STC
Sample : VOC STD 11-5-11@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.84	96	595584	25.00000 ppb		-0.03
55) Chlorobenzene-D5 (IS)	18.05	117	402432	25.00000 ppb		-0.02
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	212800	25.00000 ppb		-0.03
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	416096	20.08951 ppb		-0.03
Spiked Amount 21.097			Recovery = 95.226%			
38) 1,2-DCA-D4(S)	12.23	65	338741	18.68798 ppb		-0.03
Spiked Amount 21.225			Recovery = 88.046%			
56) Toluene-D8(S)	15.51	98	1461966	24.65841 ppb		-0.03
Spiked Amount 25.808			Recovery = 95.543%			
64) 4-Bromofluorobenzene(S)	20.12	95	540544	25.84605 ppb		-0.03
Spiked Amount 25.459			Recovery = 101.518%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	187041	9.38163 ppb		100
3) Freon 114	4.33	85	148987	9.04997 ppb		85
4) Chloromethane	4.55	50	224711	8.71168 ppb	#	85
5) Vinyl chloride	4.81	62	172524	8.29869 ppb		97
7) Bromomethane	5.73	94	111513	8.95273 ppb		99
8) Chloroethane	5.92	64	41520	12.01794 ppb	#	90
9) Dichlorofluoromethane	6.01	67	415073	9.69235 ppb		99
10) Trichlorofluoromethane	6.53	101	246137	8.57453 ppb		89
11) Acetonitrile	7.66	41	88515	169.83338 ug/l		100
12) Acrolein	7.15	56	32139	127.44542 ppb		93
13) Acetone	7.28	43	23106	11.70007 ppb	#	87
14) Freon-113	7.46	101	153621	9.72183 ppb		91
15) 1,1-DCE	7.69	96	148600	9.00884 ppb		85
16) t-Butanol	7.76	59	11630	147.07217 ppb		98
17) Methyl Acetate	8.19	43	48642	10.60824 ppb		97
18) Iodomethane	8.16	142	105892	9.20009 ppb		90
19) Acrylonitrile	8.56	53	18858	10.68669 ppb		99
20) Methylene chloride	8.48	84	149070	9.37007 ppb		98
21) Carbon disulfide	8.57	76	143808	10.56129 ppb		99
22) Methyl t-butyl ether (MtBE	8.90	73	243242	9.07613 ppb		91
23) Trans-1,2-DCE	7.69	96	148600	9.00884 ppb		83
24) Diisopropyl Ether	9.76	45	553895	11.33535 ppb		92
25) 1,1-DCA	9.79	63	343267	10.02578 ppb	#	91
26) Vinyl Acetate	9.43	43	35066	12.95114 ppb	#	77
27) Ethyl tert Butyl Ether	10.45	59	386566	9.35191 ppb		97
28) MEK (2-Butanone)	10.45	43	69554	8.99153 ppb	#	92
29) Cis-1,2-DCE	10.82	96	190260	8.93379 ppb		95
30) 2,2-Dichloropropane	10.81	77	282489	8.93099 ppb		99
31) Chloroform	11.09	83	322565	8.89684 ppb		97
32) Bromochloromethane	11.32	128	54954	8.55473 ppb		88
34) 1,1,1-TCA	11.84	97	298251	8.47523 ppb		95
35) Cyclohexane	12.00	56	274837	12.11110 ppb		83
36) 1,1-Dichloropropene	12.11	75	240980	9.52778 ppb		94
37) 2,2,4-Trimethylpentane	12.18	57	443989	11.81828 ppb		99
39) Carbon Tetrachloride	12.30	117	219963	8.18253 ppb		97
40) Tert Amyl Methyl Ether	12.35	73	272887	9.07241 ppb		98
41) 1,2-DCA	12.38	62	166546	8.07072 ppb		99
42) Benzene	12.50	78	681947	10.59475 ppb		98
43) TCE	13.54	95	186872	9.17224 ppb		88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C02W.D Vial: 1
Acq On : 5 Nov 11 12:02 Operator: STC
Sample : VOC STD 11-5-11@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	2-Pentanone	13.20	43	518357	141.99339	ppb		99
45)	1,2-Dichloropropane	13.77	63	164490	11.20193	ppb	#	93
46)	Bromodichloromethane	14.12	83	196399	8.88160	ppb		96
47)	Methyl Cyclohexane	13.82	83	237152	11.26533	ppb		95
48)	Dibromomethane	14.18	93	68773	8.91857	ppb		96
49)	2-Chloroethyl vinyl ether	14.57	63	35959	9.38611	ppb	#	87
50)	1-Bromo-2-chloroethane	14.89	63	137887	10.71951	ppb		89
51)	Cis-1,3-Dichloropropene	15.01	75	186126	10.28104	ppb		89
52)	Toluene	15.64	91	674495	9.87770	ppb		99
53)	Trans-1,3-Dichloropropene	15.81	75	129670	9.42506	ppb		95
54)	1,1,2-TCA	16.08	83	69828	10.28921	ppb		88
57)	1,2-EDB	17.33	107	75185	8.78414	ppb		89
58)	Tetrachloroethene	16.80	164	182629	8.95294	ppb		92
59)	1-Chlorohexane	17.72	91	234240	10.73590	ppb		95
60)	1,1,1,2-Tetrachloroethane	18.16	131	138000	9.13075	ppb		95
61)	m&p-Xylene	18.37	106	570391	19.53694	ppb		96
62)	o-Xylene	19.11	106	284102	10.21110	ppb		94
63)	Styrene	19.13	104	429791	9.77859	ppb		98
65)	2-Hexanone	16.11	43	36154	10.86145	ppb		81
66)	1,3-Dichloropropane	16.50	76	148029	10.55164	ppb		99
67)	Dibromochloromethane	16.98	129	101571	8.49960	ppb		86
68)	Chlorobenzene	18.11	112	414257	9.48459	ppb		97
69)	Ethylbenzene	18.22	91	758442	9.94370	ppb		89
70)	Bromoform	19.64	173	47045	8.14812	ppb		99
72)	MIBK (methyl isobutyl keto	14.68	43	55310	11.24986	ppb		85
73)	Isopropylbenzene	19.74	105	755753	9.51095	ppb		96
74)	1,1,2,2-Tetrachloroethane	19.90	83	74527	11.02841	ppb		77
75)	1,2,3-Trichloropropane	20.17	110	7715	8.69010	ppb	#	67
76)	t-1,4-Dichloro-2-Butene	20.24	53	15851	9.27804	ppb		95
77)	Bromobenzene	20.48	156	165490	9.48243	ppb		86
78)	n-Propylbenzene	20.45	91	919293	10.16357	ppb		97
79)	4-Ethyltoluene	20.65	105	647894	10.23998	ppb		95
80)	2-Chlorotoluene	20.75	91	602388	9.97006	ppb		96
81)	1,3,5-Trimethylbenzene	20.73	105	616868	9.35085	ppb		97
82)	4-Chlorotoluene	20.82	91	517389	9.74689	ppb		100
83)	Tert-Butylbenzene	21.36	119	697318	9.95287	ppb		96
84)	1,2,4-Trimethylbenzene	21.42	105	635940	9.81376	ppb		91
85)	Sec-Butylbenzene	21.76	105	862804	10.19072	ppb		97
86)	p-Isopropyltoluene	22.00	119	726226	9.75577	ppb		96
87)	Benzyl Chloride	22.44	91	133182	10.55898	ppb		95
88)	1,3-DCB	22.14	146	358645	10.45967	ppb		97
89)	1,4-DCB	22.30	146	341697	10.63711	ppb		89
90)	Hexachloroethane	23.61	117	119303	9.02207	ppb		92
91)	n-Butylbenzene	22.71	91	629702	10.04728	ppb		94
92)	1,2-DCB	22.93	146	288763	10.17108	ppb		92
93)	1,2-Dibromo-3-chloropropan	24.15	155	11323	10.99776	ppb		82
94)	1,2,4-Trichlorobenzene	25.61	145	22384	8.35546	ppb		94
95)	Hexachlorobutadiene	25.87	223	98370	8.78100	ppb		96
96)	Naphthalene	25.97	128	264651	8.75584	ppb		99
97)	1,2,3-Trichlorobenzene	26.36	180	58584	7.81347	ppb		95

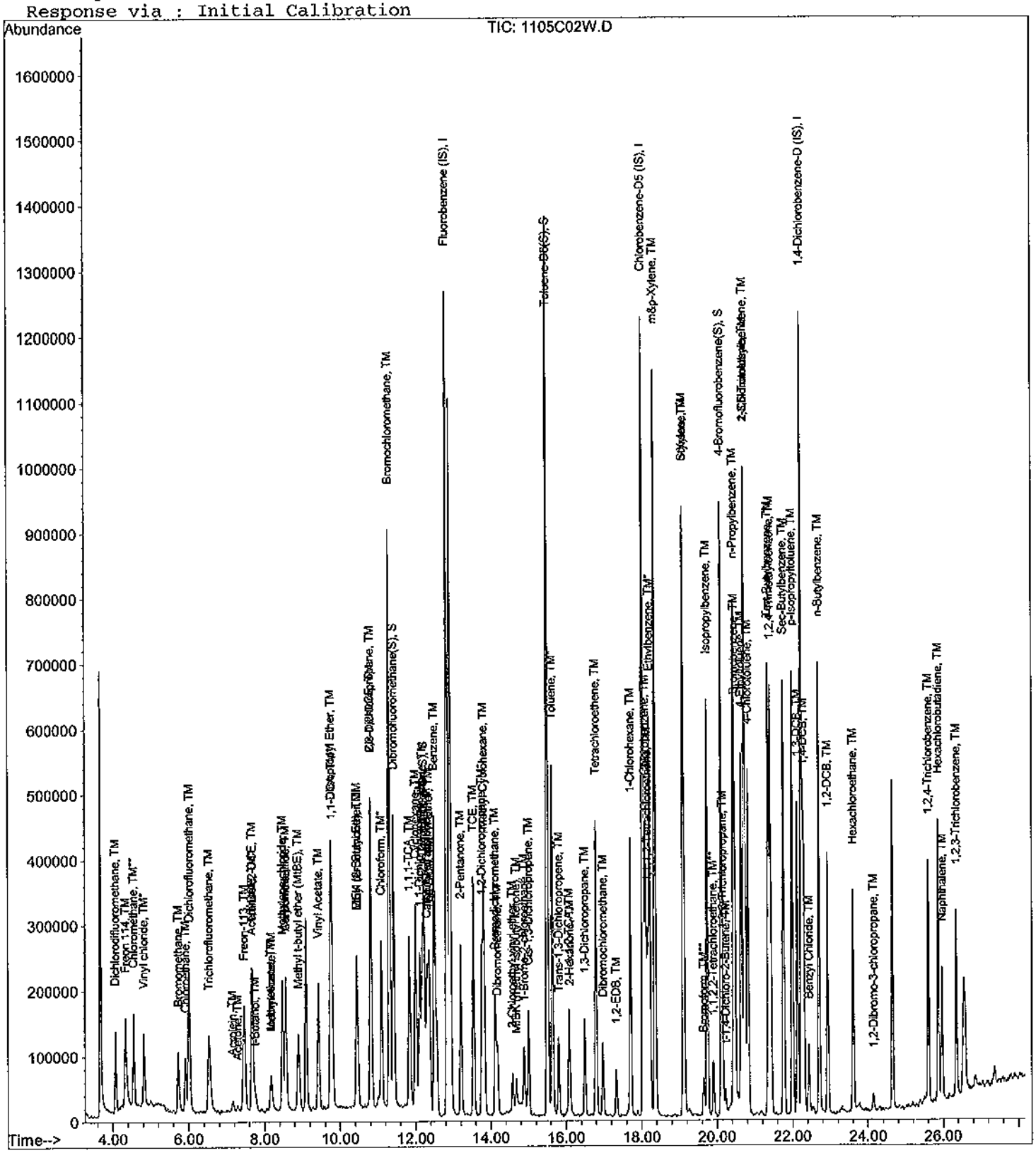
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C02W.D Vial: 1
Acq On : 5 Nov 11 12:02 Operator: STC
Sample : VOC STD 11-5-11@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66186
Case No: Initial Cal. Date: 10/30/11
Matrix: Instrument: Chico Initials:

			1030C05W.D	1030C06W.D	1030C07W.D	1030C08W.D	1030C09W.D	1030C10W.D	1030C11W.D							
		Compound	0.5	1	5	10	20	40	100				Avg	%RSD		
1	I	Fluorobenzene (IS)	ISTD													
2	TMHBL	Gasoline	17.8	8.144	5.154	3.050	2.484	2.343	2.274				5.9	96	TMHBL	1.000
3	I	Chlorobenzene-D5 (IS)	ISTD													
4	I	1,4-Dichlorobenzene-D (IS)	ISTD													
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Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C04W.D Vial: 1
Acq On : 30 Oct 11 15:33 Operator: STC
Sample : VOC MIX MARKER Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Oct 31 8:20 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 31 09:19:23 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1053416	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1584235	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1040375	25.00000	ppb	0.01

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	14.31	TIC	19553836m	92.16198	ppb	0

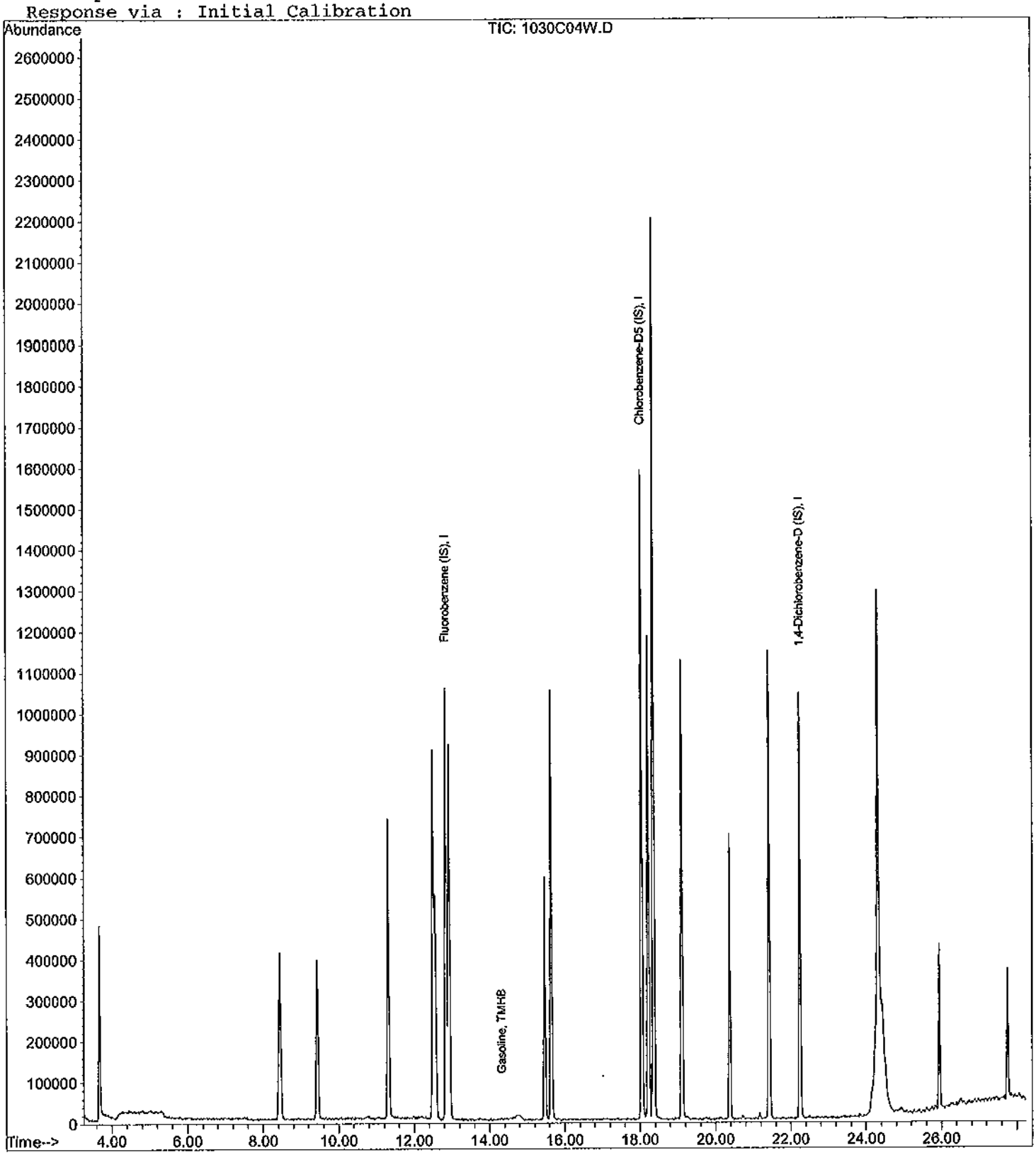
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C04W.D Vial: 1
Acq On : 30 Oct 11 15:33 Operator: STC
Sample : VOC MIX MARKER Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Oct 31 8:20 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C05W.D Vial: 1
Acq On : 30 Oct 11 16:17 Operator: STC
Sample : Vol Std 10-30-11@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:29 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 31 09:32:18 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.86	TIC	1064868	25.00000	ppb	0.02
3) Chlorobenzene-D5 (IS)	18.05	TIC	1075283	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1031464	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	18.05	TIC	15186538m	62.79631	ppb	100

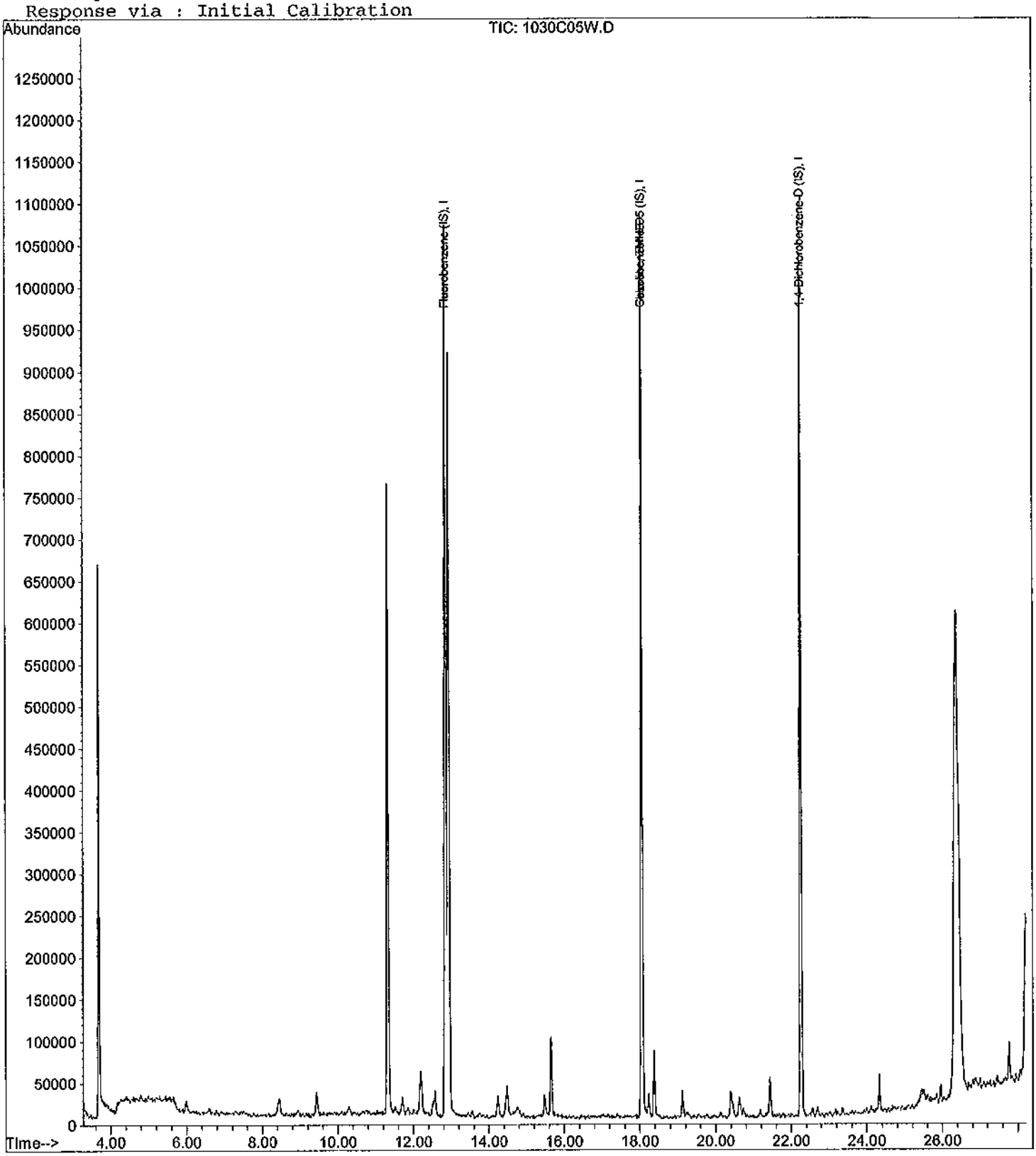
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C05W.D Vial: 1
Acq On : 30 Oct 11 16:17 Operator: STC
Sample : Vol Std 10-30-11@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:29 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C06W.D Vial: 1
Acq On : 30 Oct 11 17:00 Operator: STC
Sample : Vol Std 10-30-11@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:30 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 31 09:32:18 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1074535	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1105653	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1049854	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	18.04	TIC	17501250m	71.71659	ppb	100

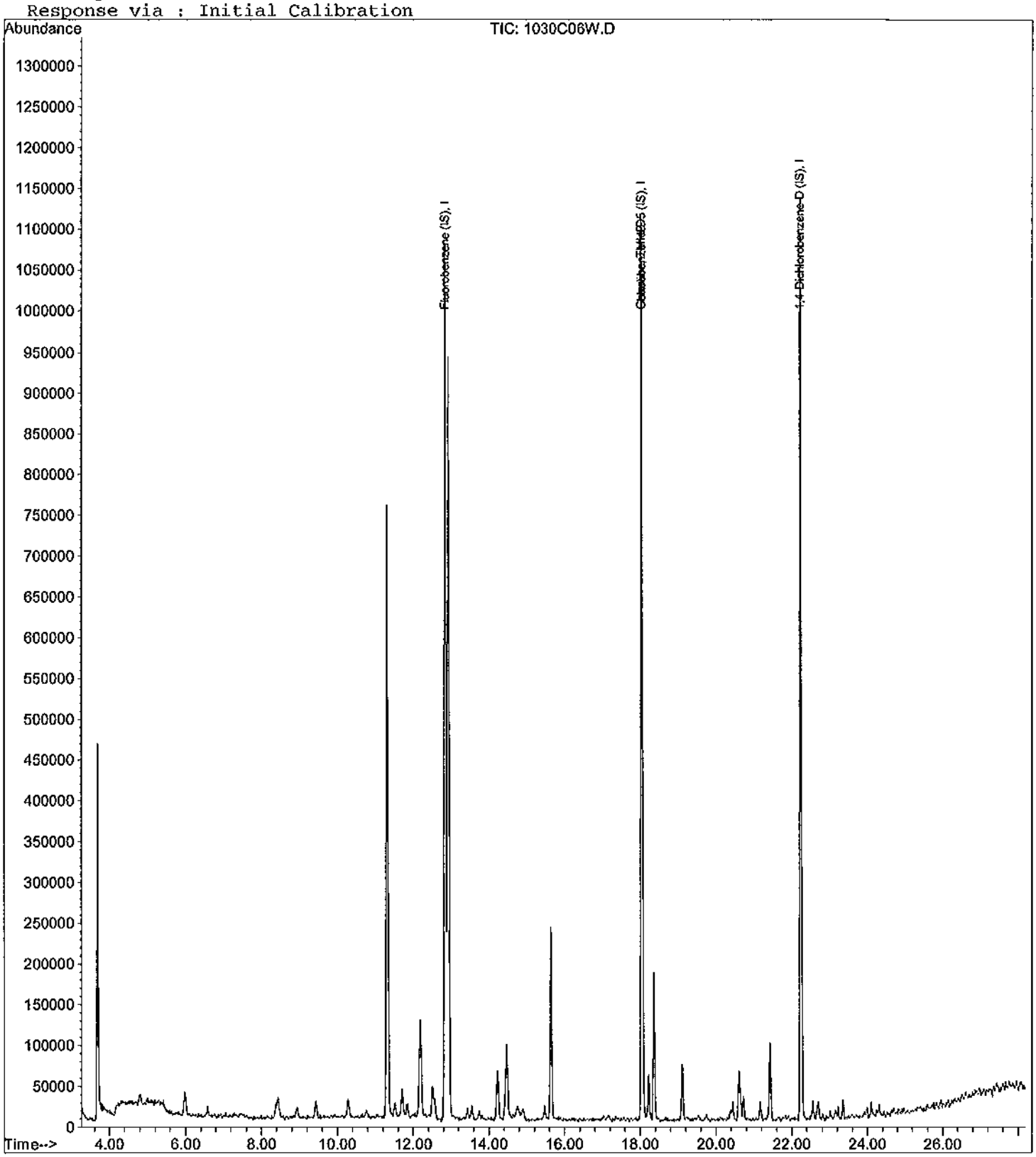
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C06W.D Vial: 1
Acq On : 30 Oct 11 17:00 Operator: STC
Sample : Vol Std 10-30-11@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:30 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C07W.D Vial: 1
Acq On : 30 Oct 11 17:43 Operator: STC
Sample : Vol Std 10-30-11@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:38 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 31 09:32:18 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1049972	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1057194	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1054110	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	18.04	TIC	21647604m	90.78273	ppb	100

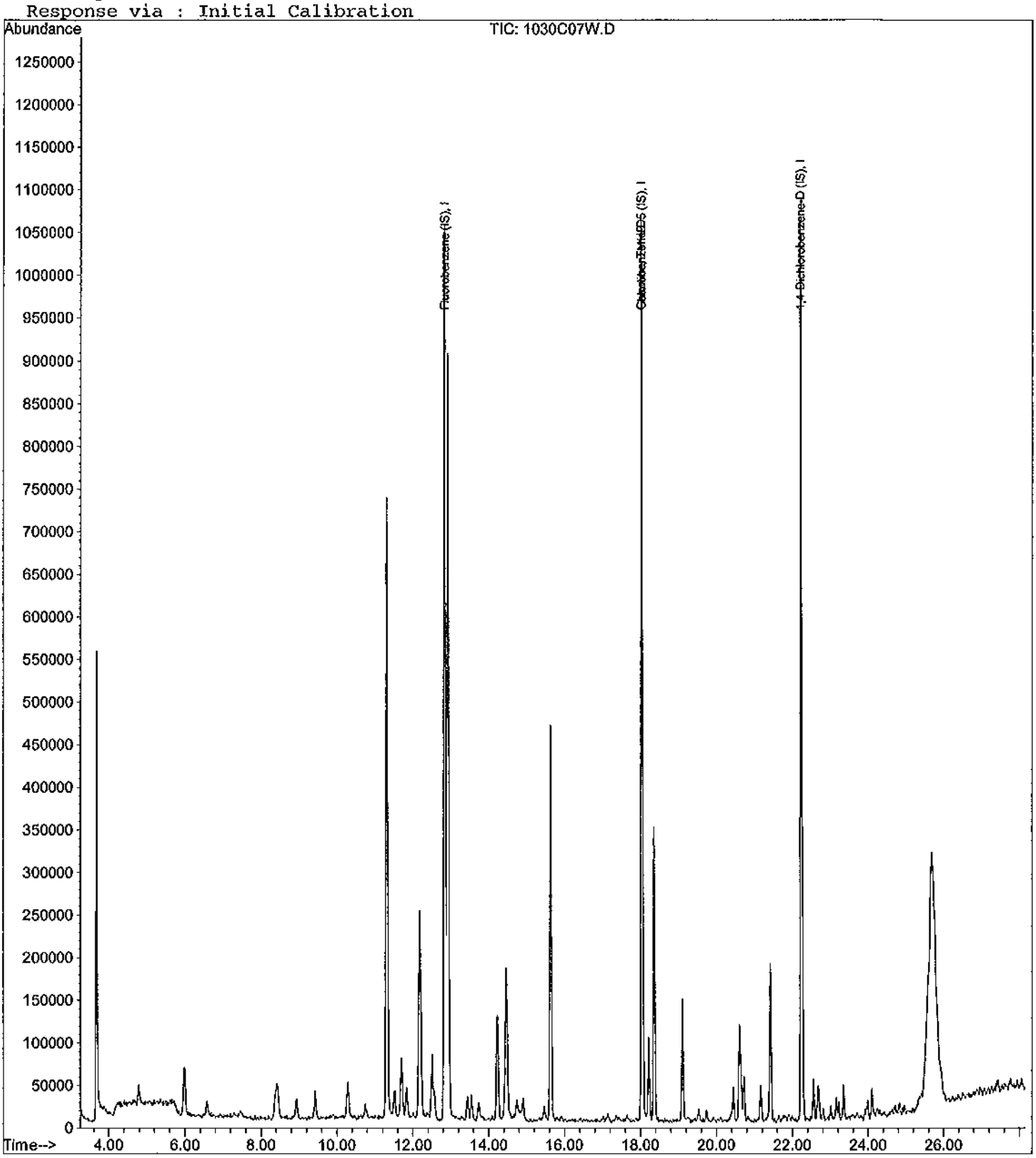
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C07W.D Vial: 1
Acq On : 30 Oct 11 17:43 Operator: STC
Sample : Vol Std 10-30-11@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:38 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C08W.D Vial: 1
Acq On : 30 Oct 11 18:26 Operator: STC
Sample : Vol Std 10-30-11@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:40 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 31 09:32:18 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1085666	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1080398	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1118273	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.64	TIC	39740510m	161.17894	ppb	100

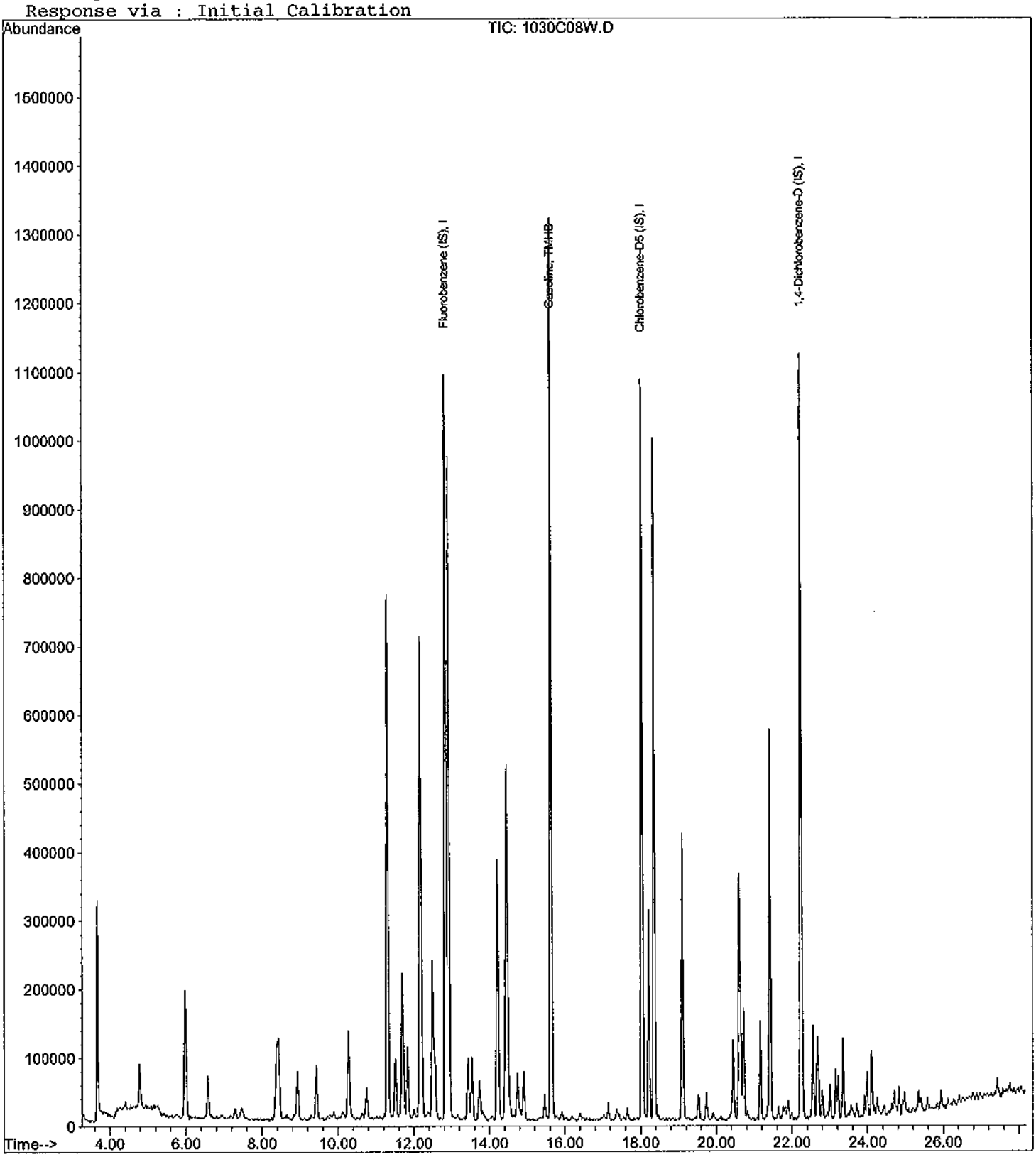
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C08W.D Vial: 1
Acq On : 30 Oct 11 18:26 Operator: STC
Sample : Vol Std 10-30-11@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:40 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C09W.D Vial: 1
Acq On : 30 Oct 11 19:09 Operator: STC
Sample : Vol Std 10-30-11@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:41 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 31 09:32:18 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1104080	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1114811	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1175050	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.64	TIC	65808275m	262.45271	ppb	100

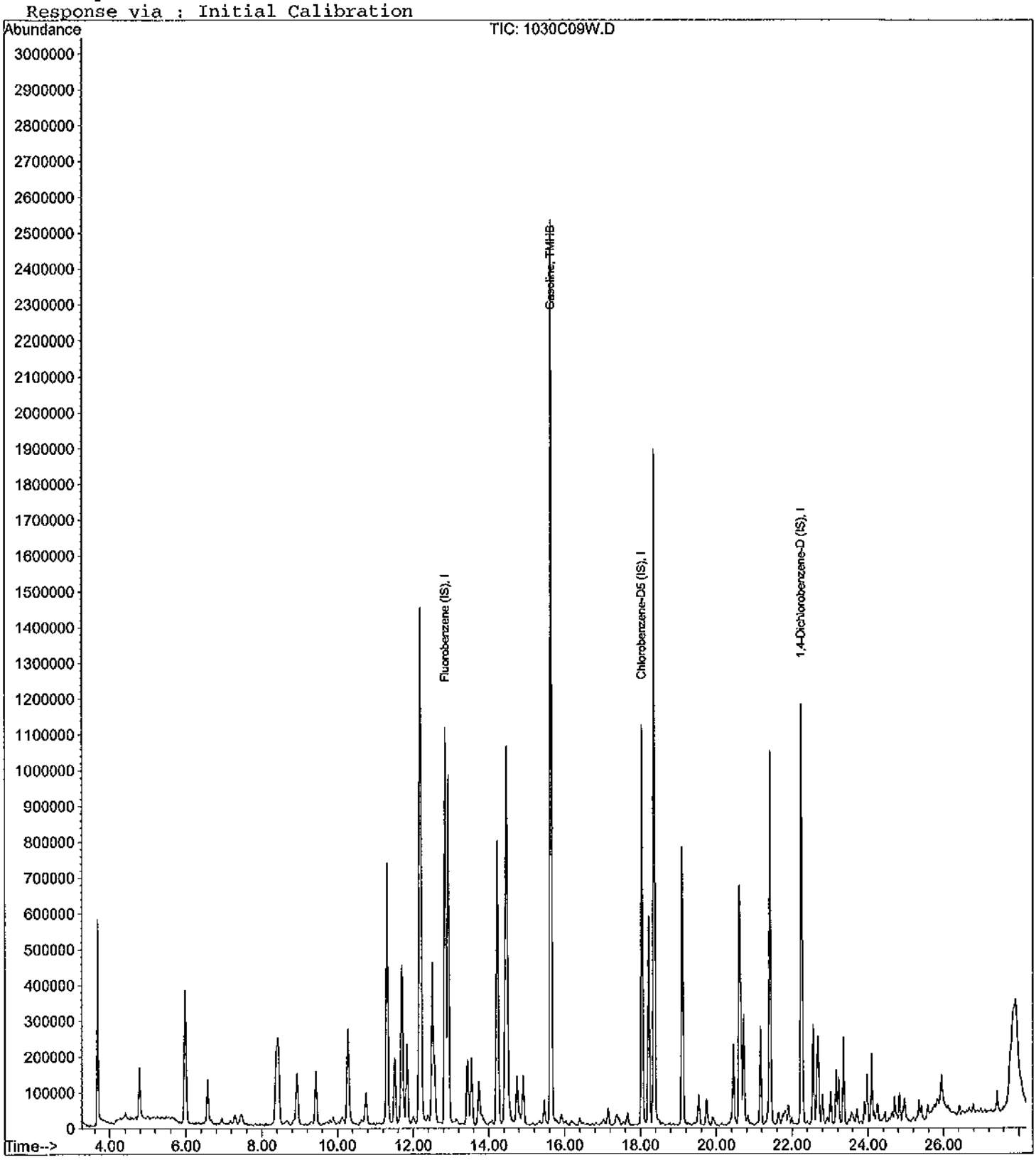
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C09W.D Vial: 1
Acq On : 30 Oct 11 19:09 Operator: STC
Sample : Vol Std 10-30-11@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:41 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C10W.D Vial: 1
Acq On : 30 Oct 11 19:52 Operator: STC
Sample : Vol Std 10-30-11@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:42 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 31 09:32:18 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1129347	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1159453	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1268278	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.63	TIC	84666447m	330.10723	ppb	100

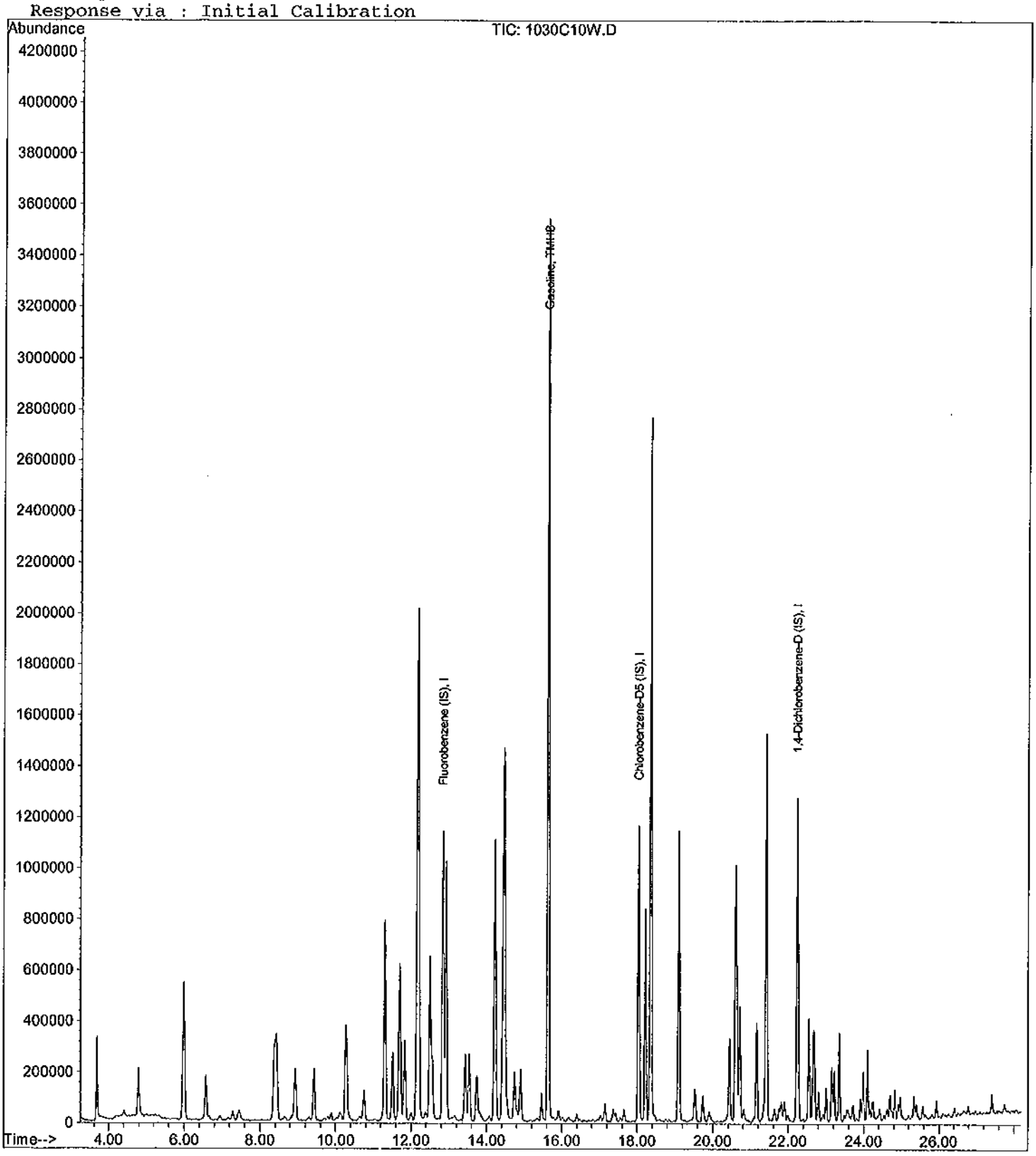
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C10W.D Vial: 1
Acq On : 30 Oct 11 19:52 Operator: STC
Sample : Vol Std 10-30-11@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:42 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C11W.D Vial: 1
Acq On : 30 Oct 11 20:35 Operator: STC
Sample : Vol Std 10-30-11@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:43 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon Oct 31 09:32:18 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1162372	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1207961	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1354742	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.63	TIC	105748641m	400.59060	ppb	100

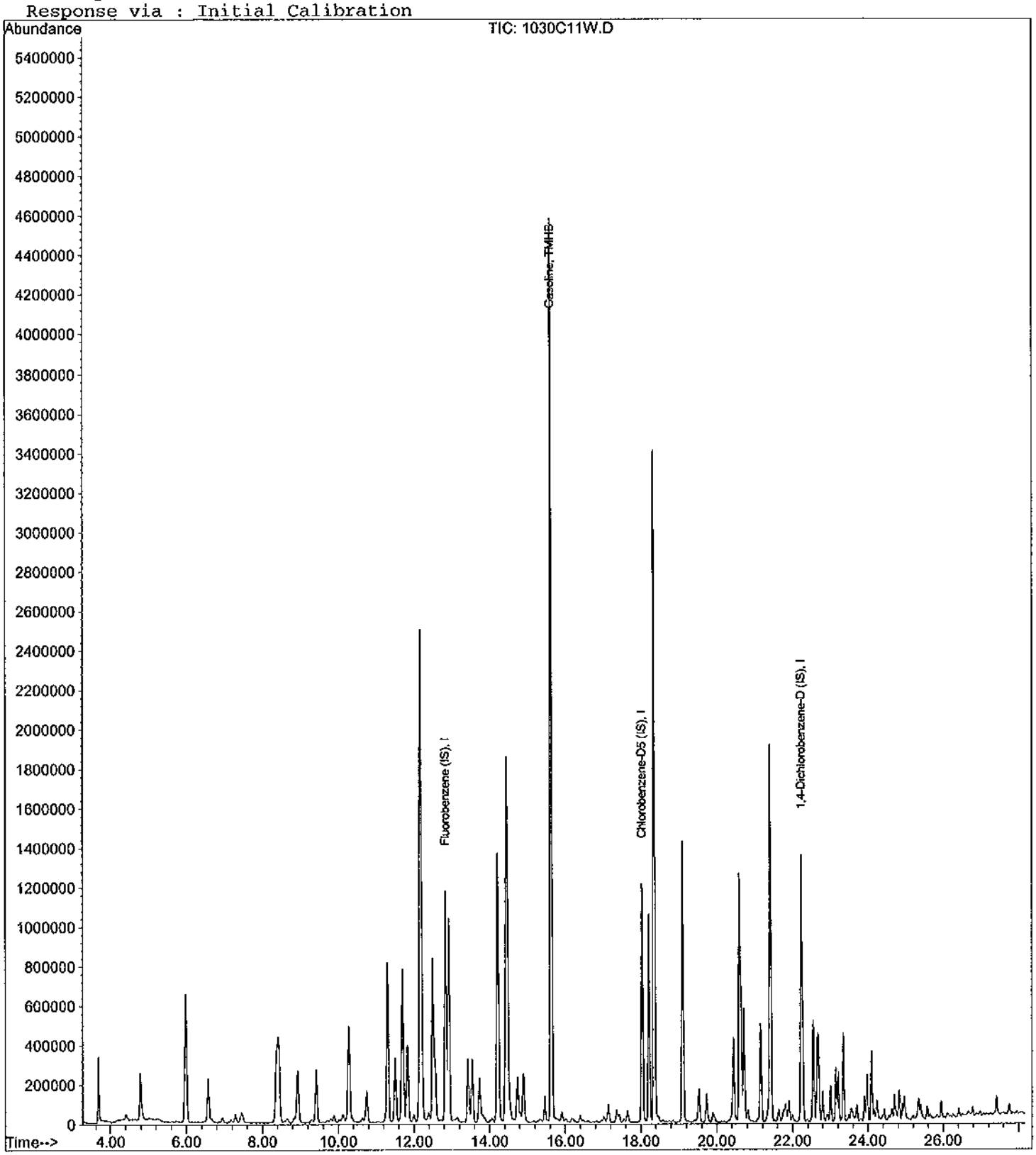
(#) = qualifier out of range (m) = manual integration

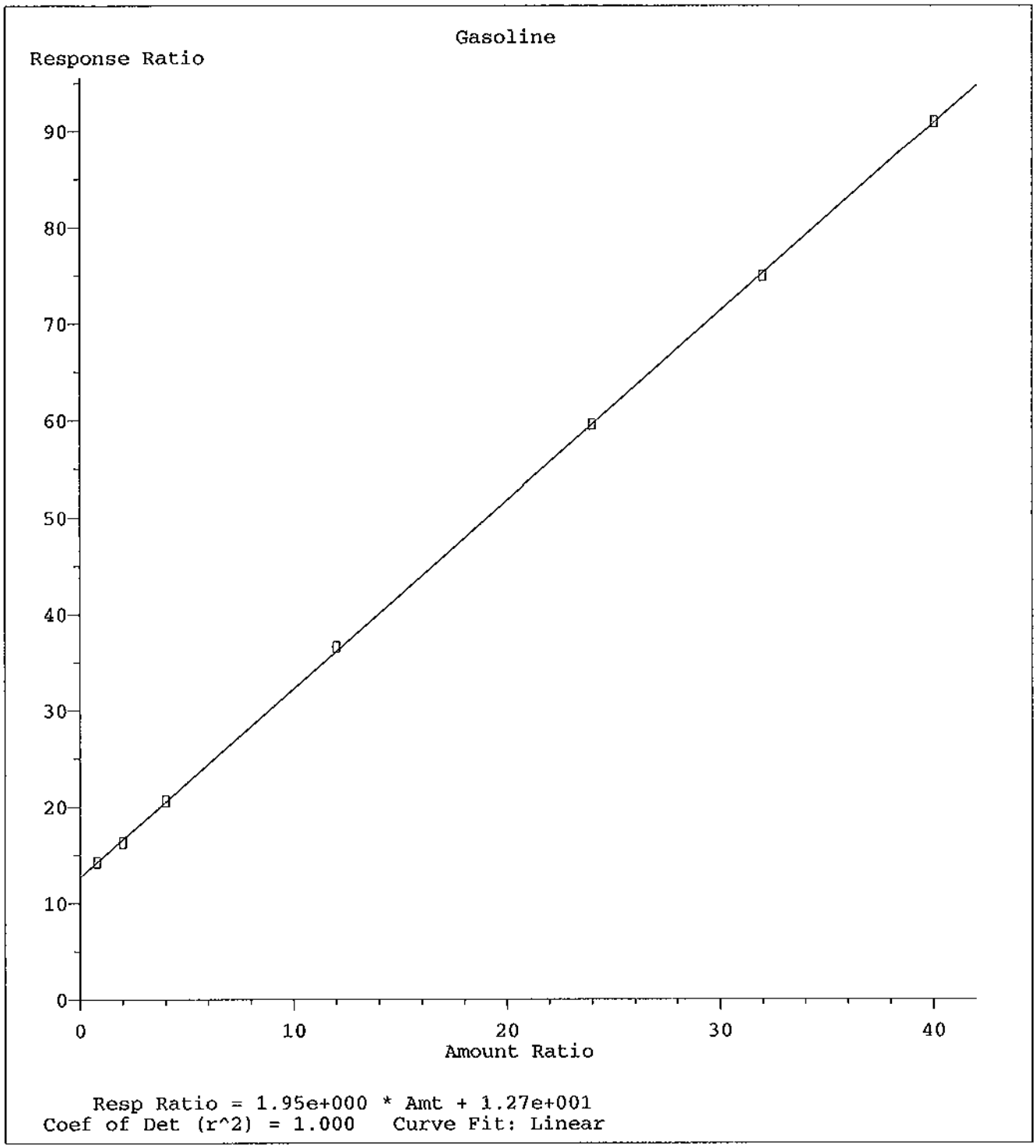
Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C11W.D Vial: 1
Acq On : 30 Oct 11 20:35 Operator: STC
Sample : Vol Std 10-30-11@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:43 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration





Method Name: M:\CHICO\DATA\C111030\CGAS.M
Calibration Table Last Updated: Thu Nov 03 10:47:02 2011

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 66186
Date Analyzed: 10/31/11
Instrument: Chico
Initial Cal. Date: 10/30/11
Data File: 1030C29W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	5.897	3.226	45	TMHBL	11
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			45.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C29W.D Vial: 1
Acq On : 31 Oct 11 9:31 Operator: STC
Sample : GAS 300ug/L (SS) Inst : Chico
Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 9:51 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1211423	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1191079	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1217266	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.63	TIC	46900368m	332.66187	ppb	100

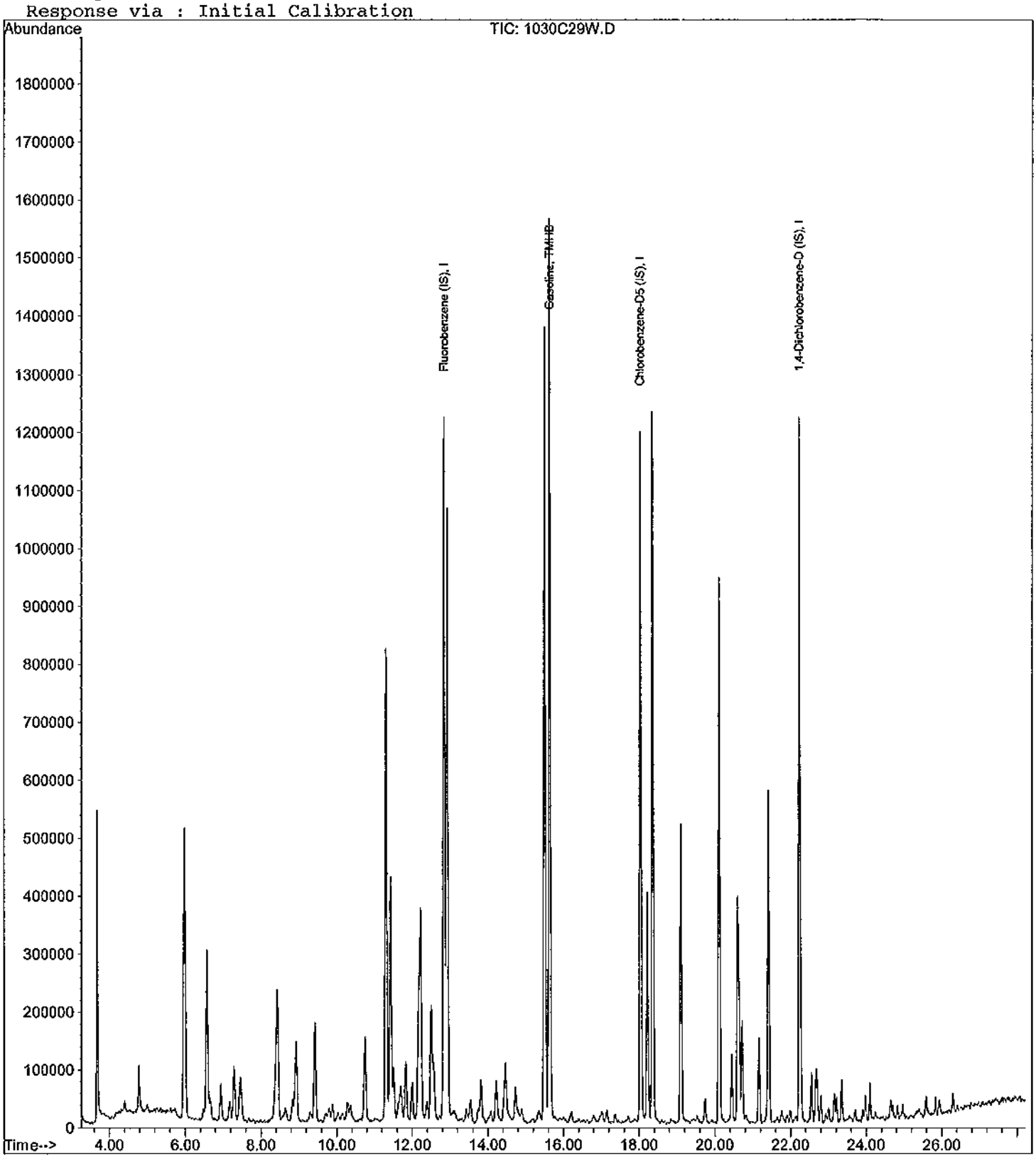
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C29W.D Vial: 1
Acq On : 31 Oct 11 9:31 Operator: STC
Sample : GAS 300ug/L (SS) Inst : Chico
Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 9:51 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:

SDG No: 66186
Date Analyzed: 5 Nov 11 14:11
Instrument: Chico
Initial Cal. Date: 11/04/11
Data File: 1105C05W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	5.897	3.063	48	TMHBL	2.5
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
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36							
37							
38							
39							
40							
		Average			48.0		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C05W.D Vial: 1
Acq On : 5 Nov 11 14:11 Operator: STC
Sample : Gas CCV 11-05-11@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 5 14:41 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1284529	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1273277	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1316872	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.64	TIC	47212524m	307.58180	ppb	100

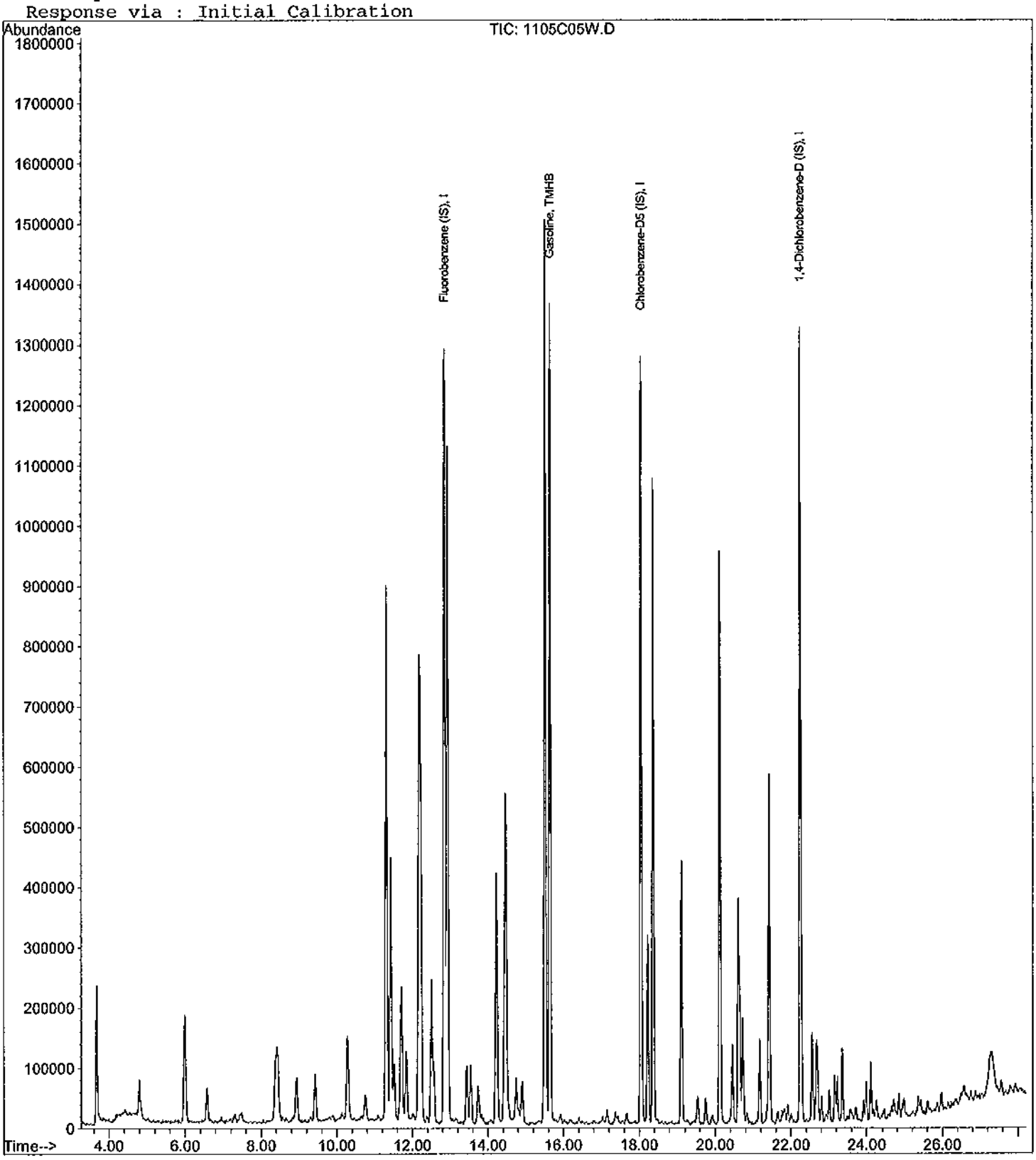
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C05W.D Vial: 1
Acq On : 5 Nov 11 14:11 Operator: STC
Sample : Gas CCV 11-05-11@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 5 14:41 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA METHOD 8260B
Volatile Organic Compounds
Raw Data

APPL, INC.

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **111105W-50004 - 160965**
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/05/11	11/05/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/05/11	11/05/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/05/11	11/05/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	11/05/11	11/05/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/05/11	11/05/11
BLANK	1,3-DICHLOROPROPENE, TOTA	0.36 U	1.0	0.36	0.18	ug/L	11/05/11	11/05/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/05/11	11/05/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/05/11	11/05/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/05/11	11/05/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/05/11	11/05/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	11/05/11	11/05/11
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/05/11	11/05/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/05/11	11/05/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/05/11	11/05/11

Quant Method: CALLW.M
Run #: 1105C09
Instrument: Chico
Sequence: C111104
Initials: DG

GC SC-Blank-REG MDLs
Printed: 12/08/11 4:17:47 PM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **111105W-50004 - 160965**
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/05/11	11/05/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/05/11	11/05/11
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/05/11	11/05/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	SURROGATE: 1,2-DICHLOROET	87.0	70-120			%	11/05/11	11/05/11
BLANK	SURROGATE: 4-BROMOFLUOR	96.5	75-120			%	11/05/11	11/05/11
BLANK	SURROGATE: DIBROMOFLUOR	90.3	85-115			%	11/05/11	11/05/11
BLANK	SURROGATE: TOLUENE-D8 (S)	93.8	85-120			%	11/05/11	11/05/11

Quant Method: CALLW.M
Run #: 1105C09
Instrument: Chico
Sequence: C111104
Initials: DG

GC SC-Blank-REG MDLs
Printed: 12/08/11 4:17:47 PM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C09W.D Vial: 1
Acq On : 5 Nov 11 17:04 Operator: STC
Sample : 111105A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:18 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	639936	25.00000 ppb	-0.03
55) Chlorobenzene-D5 (IS)	18.05	117	438336	25.00000 ppb	-0.02
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	229504	25.00000 ppb	-0.03
System Monitoring Compounds					
33) Dibromofluoromethane(S)	11.44	111	423902	19.04793 ppb	-0.03
Spiked Amount 21.097			Recovery =	90.287%	
38) 1,2-DCA-D4(S)	12.24	65	359754	18.47170 ppb	-0.03
Spiked Amount 21.225			Recovery =	87.028%	
56) Toluene-D8(S)	15.52	98	1563511	24.21108 ppb	-0.03
Spiked Amount 25.808			Recovery =	93.811%	
64) 4-Bromofluorobenzene(S)	20.12	95	559686	24.56931 ppb	-0.03
Spiked Amount 25.459			Recovery =	96.502%	

Target Compounds Qvalue

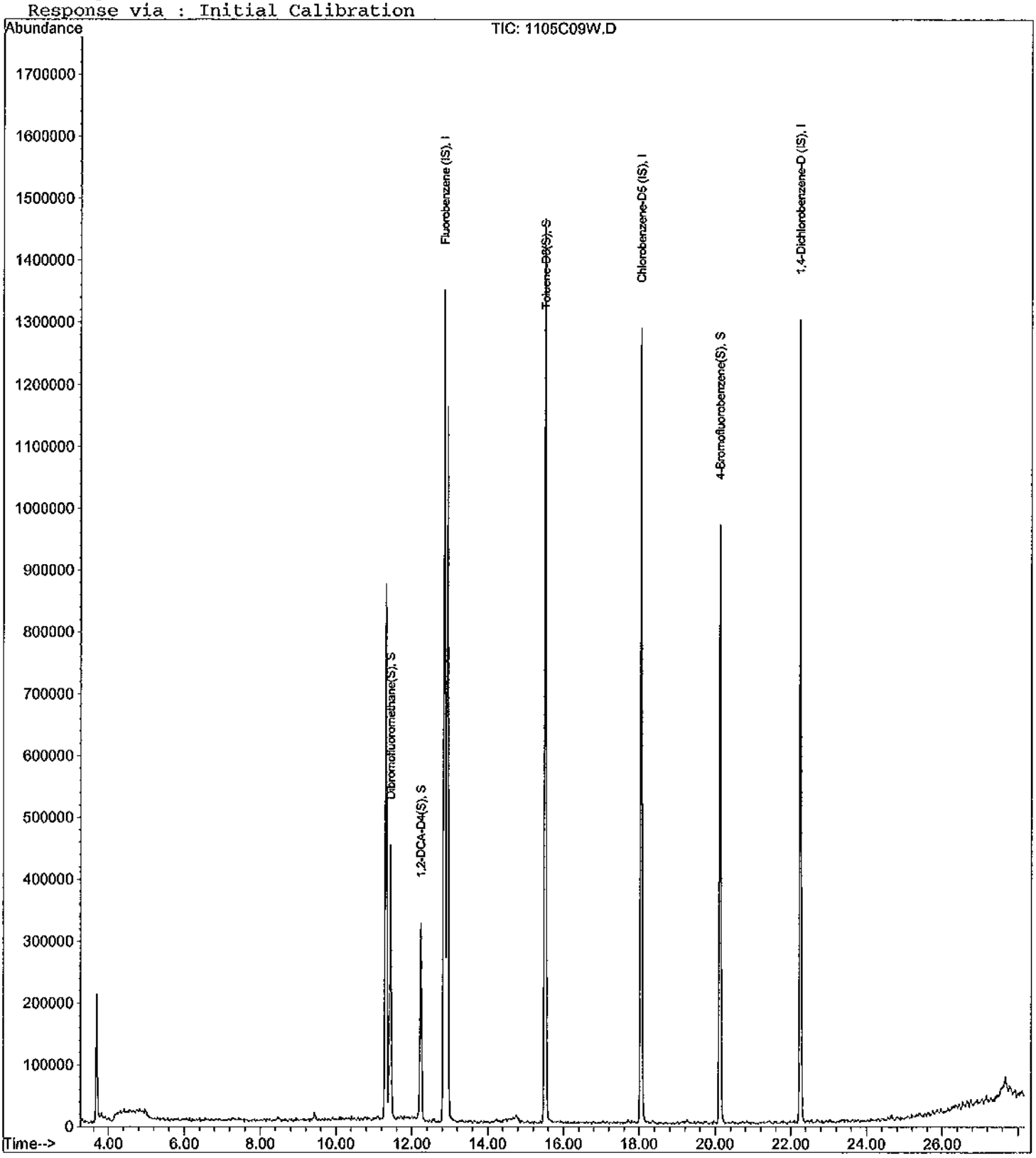
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C09W.D Vial: 1
Acq On : 5 Nov 11 17:04 Operator: STC
Sample : 111105A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:18 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C09W.D Vial: 1
Acq On : 5 Nov 11 17:04 Operator: STC
Sample : 111105A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:44 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1344857	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.05	TIC	1284528	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1297788	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

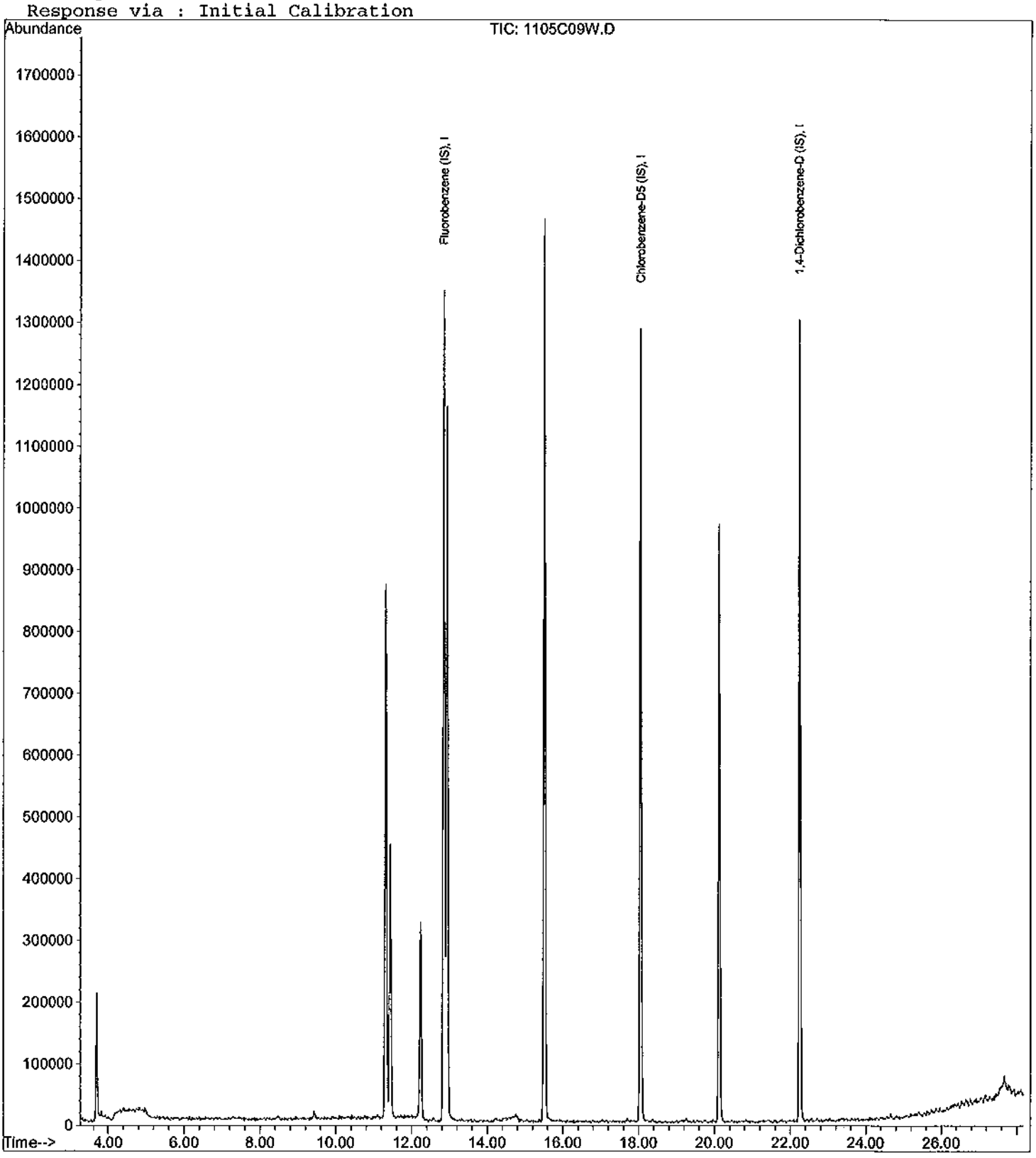
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C09W.D Vial: 1
Acq On : 5 Nov 11 17:04 Operator: STC
Sample : 111105A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:44 2011 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: **111105W-50004 LCS - 160965**
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.01	90.1	80-130
1,1,1-TRICHLOROETHANE	10.00	8.38	83.8	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.2	102	65-130
1,1,2-TRICHLOROETHANE	10.00	9.78	97.8	75-125
1,1-DICHLOROETHANE	10.00	10.5	105	70-135
1,1-DICHLOROETHENE	10.00	9.57	95.7	70-130
1,2,3-TRICHLOROPROPANE	10.00	8.50	85.0	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.38	93.8	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.45	84.5	50-130
1,2-DIBROMOETHANE	10.00	8.37	83.7	70-130
1,2-DICHLOROBENZENE	10.00	9.72	97.2	70-120
1,2-DICHLOROETHANE	10.00	8.20	82.0	70-130
1,2-DICHLOROPROPANE	10.00	11.6	116	75-125
1,3-DICHLOROBENZENE	10.00	9.98	99.8	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.3	102	70-130
1,4-DICHLOROBENZENE	10.00	10.1	101	75-125
2-BUTANONE	10.00	9.57	95.7	30-150
4-METHYL-2-PENTANONE	10.00	10.7	107	60-135
ACETONE	10.00	10.8	108	40-140
BENZENE	10.00	11.0	110	80-120
BROMODICHLOROMETHANE	10.00	8.69	86.9	75-120
BROMOFORM	10.00	7.75	77.5	70-130
BROMOMETHANE	10.00	9.21	92.1	30-145
CARBON TETRACHLORIDE	10.00	8.10	81.0	65-140
CHLOROBENZENE	10.00	9.18	91.8	80-120
CHLORODIBROMOMETHANE	10.00	8.29	82.9	60-135

Comments:

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	11/05/11
Analysis Date :	11/05/11
Instrument :	Chico
Run :	1105C03
Initials :	DG

Printed: 12/08/11 4:17:51 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **111105W-50004 LCS - 160965**
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	11.7	117	60-135
CHLOROFORM	10.00	9.27	92.7	65-135
CHLOROMETHANE	10.00	9.41	94.1	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.24	92.4	70-125
ETHYLBENZENE	10.00	9.72	97.2	75-125
GASOLINE	300	285	95.0	75-125
HEXACHLOROBUTADIENE	10.00	8.51	85.1	50-140
METHYL TERT-BUTYL ETHER	10.00	9.18	91.8	65-125
METHYLENE CHLORIDE	10.00	9.48	94.8	55-140
STYRENE	10.00	9.74	97.4	65-135
TETRACHLOROETHENE	10.00	8.71	87.1	45-150
TOLUENE	10.00	10.0	100	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.57	95.7	60-140
TRICHLOROETHENE	10.00	9.37	93.7	70-125
VINYL CHLORIDE	10.00	9.11	91.1	50-145
XYLENES (TOTAL)	30.0	29.1	97.0	80-120
SURROGATE: 1,2-DICHLOROETHANE-	21.2	19.2	90.5	70-120
SURROGATE: 4-BROMOFLUOROBENZ	25.5	25.0	98.2	75-120
SURROGATE: DIBROMOFLUOROMETH	21.1	20.7	98.1	85-115
SURROGATE: TOLUENE-D8 (S)	25.8	24.0	93.0	85-120

Comments:

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	11/05/11
Analysis Date :	11/05/11
Instrument :	Chico
Run :	1105C03
Initials :	DG

Printed: 12/08/11 4:17:51 PM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C03W.D Vial: 1
Acq On : 5 Nov 11 12:45 Operator: STC
Sample : 111105A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.85	96	598784	25.00000 ppb		-0.03
55) Chlorobenzene-D5 (IS)	18.04	117	432320	25.00000 ppb		-0.03
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	227456	25.00000 ppb		-0.03
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	430194	20.65917 ppb		-0.04
Spiked Amount 21.097			Recovery = 97.923%			
38) 1,2-DCA-D4(S)	12.23	65	350461	19.23124 ppb		-0.04
Spiked Amount 21.225			Recovery = 90.604%			
56) Toluene-D8(S)	15.51	98	1526114	23.96084 ppb		-0.04
Spiked Amount 25.808			Recovery = 92.842%			
64) 4-Bromofluorobenzene(S)	20.12	95	561629	24.99769 ppb		-0.03
Spiked Amount 25.459			Recovery = 98.187%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.07	85	200438	9.99987 ppb		96
3) Freon 114	4.34	85	158173	9.55662 ppb		98
4) Chloromethane	4.56	50	243905	9.40526 ppb		99
5) Vinyl chloride	4.82	62	190389	9.10909 ppb		97
7) Bromomethane	5.73	94	115295	9.20690 ppb		95
8) Chloroethane	5.92	64	40768	11.73721 ppb	#	80
9) Dichlorofluoromethane	6.01	67	429753	9.98151 ppb		97
10) Trichlorofluoromethane	6.54	101	254008	8.80144 ppb		91
11) Acetonitrile	7.66	41	91825	175.24271 ug/l		100
12) Acrolein	7.15	56	36334	143.31047 ppb		98
13) Acetone	7.28	43	21380	10.76822 ppb	#	59
14) Freon-113	7.47	101	158655	9.98674 ppb		92
15) 1,1-DCE	7.69	96	158725	9.57124 ppb		97
16) t-Butanol	7.77	59	12156	152.90240 ppb		96
17) Methyl Acetate	8.19	43	49077	10.64799 ppb		96
18) Iodomethane	8.17	142	116518	9.85367 ppb		93
19) Acrylonitrile	8.57	53	19799	11.15999 ppb		88
20) Methylene chloride	8.48	84	151276	9.47889 ppb		100
21) Carbon disulfide	8.56	76	141888	10.36460 ppb		98
22) Methyl t-butyl ether (MtBE	8.90	73	247260	9.17675 ppb	#	95
23) Trans-1,2-DCE	7.69	96	158725	9.57124 ppb		98
24) Diisopropyl Ether	9.76	45	555595	11.30937 ppb		96
25) 1,1-DCA	9.79	63	359912	10.45575 ppb		91
26) Vinyl Acetate	9.42	43	35752	13.13393 ppb	#	75
27) Ethyl tert Butyl Ether	10.45	59	406811	9.78909 ppb		96
28) MEK (2-Butanone)	10.44	43	74398	9.56633 ppb		94
29) Cis-1,2-DCE	10.82	96	197945	9.24498 ppb		94
30) 2,2-Dichloropropane	10.82	77	291298	9.16027 ppb	#	88
31) Chloroform	11.10	83	337951	9.27140 ppb		98
32) Bromochloromethane	11.32	128	54373	8.41905 ppb		89
34) 1,1,1-TCA	11.84	97	296442	8.37880 ppb		93
35) Cyclohexane	12.00	56	280256	12.28389 ppb		80
36) 1,1-Dichloropropene	12.11	75	258971	10.18438 ppb		99
37) 2,2,4-Trimethylpentane	12.18	57	486067	12.87742 ppb		95
39) Carbon Tetrachloride	12.30	117	218797	8.09566 ppb		99
40) Tert Amyl Methyl Ether	12.35	73	289560	9.57527 ppb		100
41) 1,2-DCA	12.38	62	170145	8.20107 ppb		99
42) Benzene	12.50	78	712677	11.01300 ppb		99
43) TCE	13.54	95	191886	9.36801 ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C03W.D Vial: 1
Acq On : 5 Nov 11 12:45 Operator: STC
Sample : 111105A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	2-Pentanone	13.21	43	535634	145.94194 ppb		99
45)	1,2-Dichloropropane	13.78	63	171253	11.60017 ppb	#	95
46)	Bromodichloromethane	14.12	83	193300	8.69474 ppb		95
47)	Methyl Cyclohexane	13.83	83	247837	11.70998 ppb		95
48)	Dibromomethane	14.18	93	68528	8.83931 ppb		97
49)	2-Chloroethyl vinyl ether	14.58	63	39880	10.37045 ppb	#	84
50)	1-Bromo-2-chloroethane	14.89	63	146260	11.30967 ppb		89
51)	Cis-1,3-Dichloropropene	15.01	75	191769	10.53614 ppb		89
52)	Toluene	15.64	91	688147	10.02377 ppb		99
53)	Trans-1,3-Dichloropropene	15.81	75	134829	9.74766 ppb		97
54)	1,1,2-TCA	16.09	83	66730	9.78017 ppb		98
57)	1,2-EDB	17.34	107	76932	8.36685 ppb	#	99
58)	Tetrachloroethene	16.79	164	190918	8.71224 ppb		93
59)	1-Chlorohexane	17.71	91	255927	10.91894 ppb		95
60)	1,1,1,2-Tetrachloroethane	18.17	131	146280	9.00947 ppb		98
61)	m&p-Xylene	18.36	106	602678	19.21571 ppb		93
62)	o-Xylene	19.12	106	295792	9.89628 ppb		97
63)	Styrene	19.13	104	459874	9.73969 ppb		99
65)	2-Hexanone	16.11	43	35471	9.91956 ppb		88
66)	1,3-Dichloropropane	16.50	76	154497	10.25133 ppb		87
67)	Dibromochloromethane	16.98	129	106362	8.28519 ppb		85
68)	Chlorobenzene	18.11	112	430960	9.18487 ppb		91
69)	Ethylbenzene	18.23	91	796342	9.71880 ppb		91
70)	Bromoform	19.64	173	47964	7.75433 ppb		89
72)	MIBK (methyl isobutyl keto	14.68	43	56527	10.68044 ppb		99
73)	Isopropylbenzene	19.75	105	787241	9.26886 ppb		93
74)	1,1,2,2-Tetrachloroethane	19.90	83	73576	10.18614 ppb		79
75)	1,2,3-Trichloropropane	20.16	110	8091	8.49890 ppb		88
76)	t-1,4-Dichloro-2-Butene	20.24	53	16873	9.23840 ppb		85
77)	Bromobenzene	20.49	156	173944	9.32463 ppb		97
78)	n-Propylbenzene	20.45	91	954567	9.87354 ppb		98
79)	4-Ethyltoluene	20.64	105	640562	9.47176 ppb		96
80)	2-Chlorotoluene	20.74	91	628165	9.72679 ppb		94
81)	1,3,5-Trimethylbenzene	20.72	105	652161	9.24885 ppb		96
82)	4-Chlorotoluene	20.83	91	526794	9.28462 ppb		99
83)	Tert-Butylbenzene	21.37	119	717774	9.58472 ppb		99
84)	1,2,4-Trimethylbenzene	21.43	105	659968	9.52832 ppb		96
85)	Sec-Butylbenzene	21.77	105	909078	10.04542 ppb		95
86)	p-Isopropyltoluene	22.00	119	758748	9.53590 ppb		98
87)	Benzyl Chloride	22.43	91	135784	10.07162 ppb		98
88)	1,3-DCB	22.13	146	365632	9.97635 ppb		97
89)	1,4-DCB	22.31	146	346675	10.09669 ppb		95
90)	Hexachloroethane	23.61	117	116005	8.26021 ppb		97
91)	n-Butylbenzene	22.71	91	667118	9.95842 ppb		98
92)	1,2-DCB	22.94	146	294947	9.71950 ppb		95
93)	1,2-Dibromo-3-chloropropan	24.16	155	9302	8.45266 ppb	#	64
94)	1,2,4-Trichlorobenzene	25.61	145	26360	9.37742 ppb		79
95)	Hexachlorobutadiene	25.87	223	102054	8.50521 ppb		95
96)	Naphthalene	25.98	128	277822	8.59934 ppb		100
97)	1,2,3-Trichlorobenzene	26.35	180	63720	7.96078 ppb		99

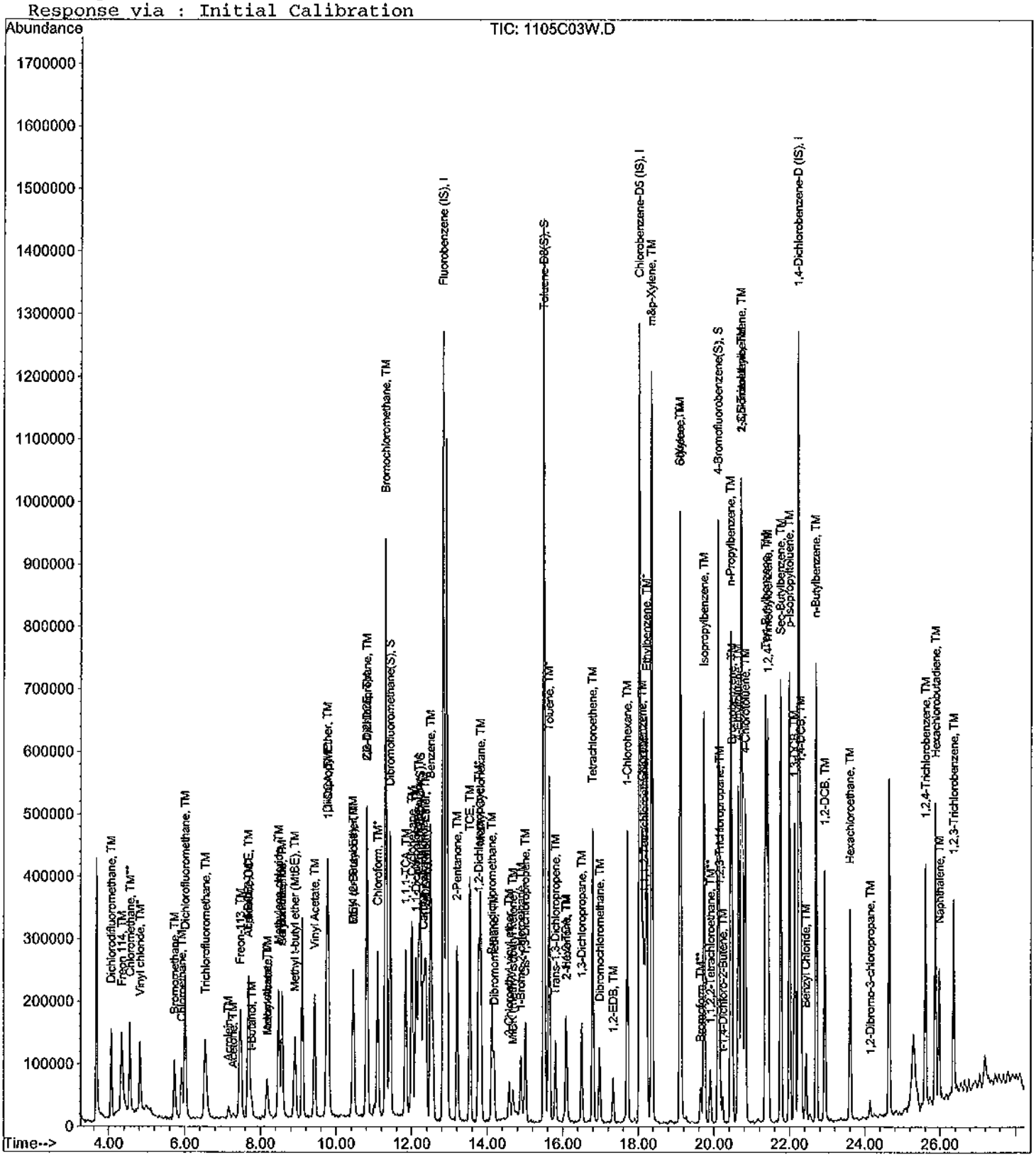
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C03W.D Vial: 1
Acq On : 5 Nov 11 12:45 Operator: STC
Sample : 111105A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111104\1105C06W.D Vial: 1
Acq On : 5 Nov 11 14:54 Operator: STC
Sample : 111105A LCS-1WC (GAS) Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 5 14:41 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1341937	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1285562	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1316053	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.64	TIC	46958625m	285.04507	ppb	100

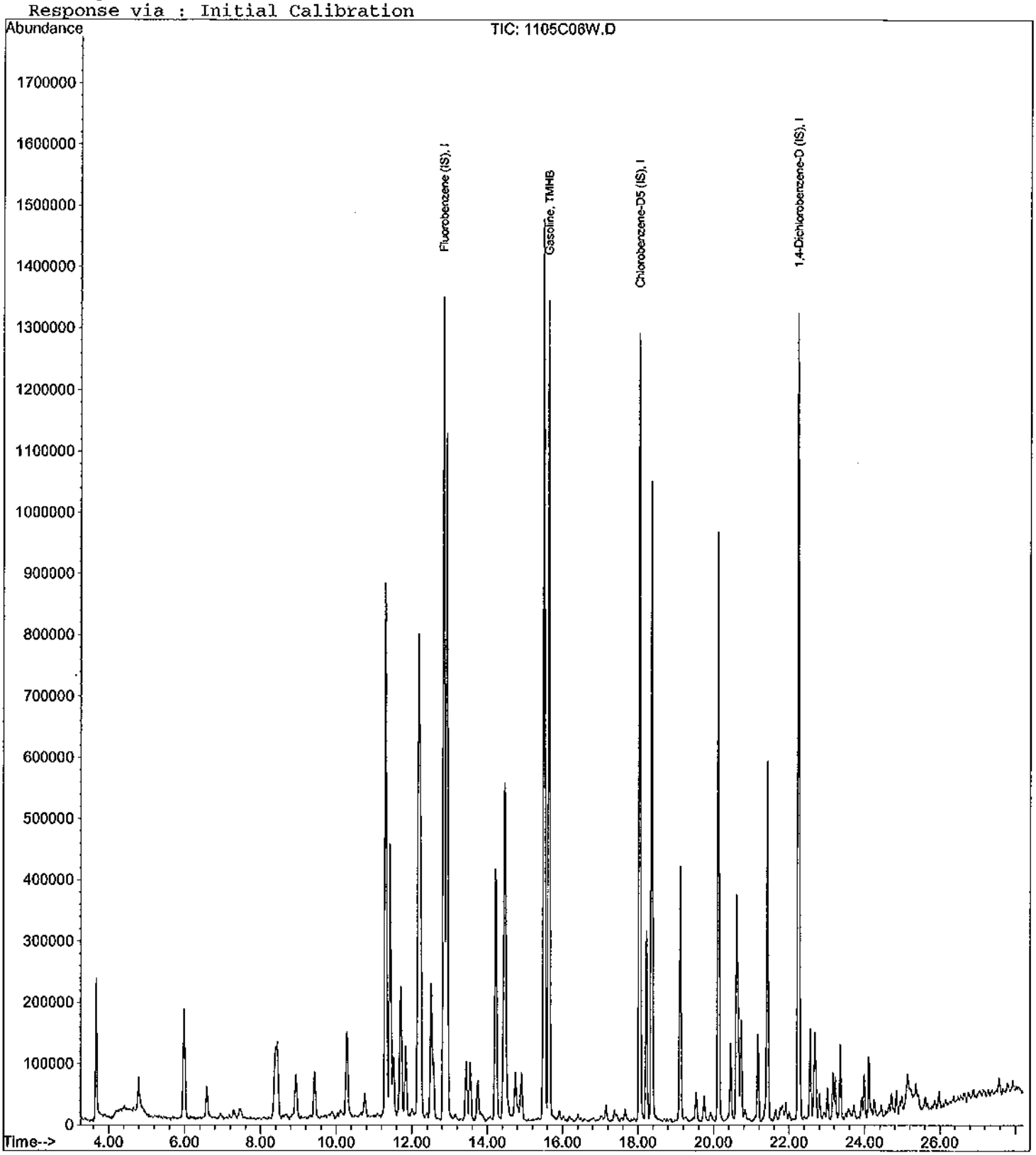
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C111104\1105C06W.D Vial: 1
Acq On : 5 Nov 11 14:54 Operator: STC
Sample : 111105A LCS-1WC (GAS) Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 5 14:41 2011 Quant Results File: CGAS.RES

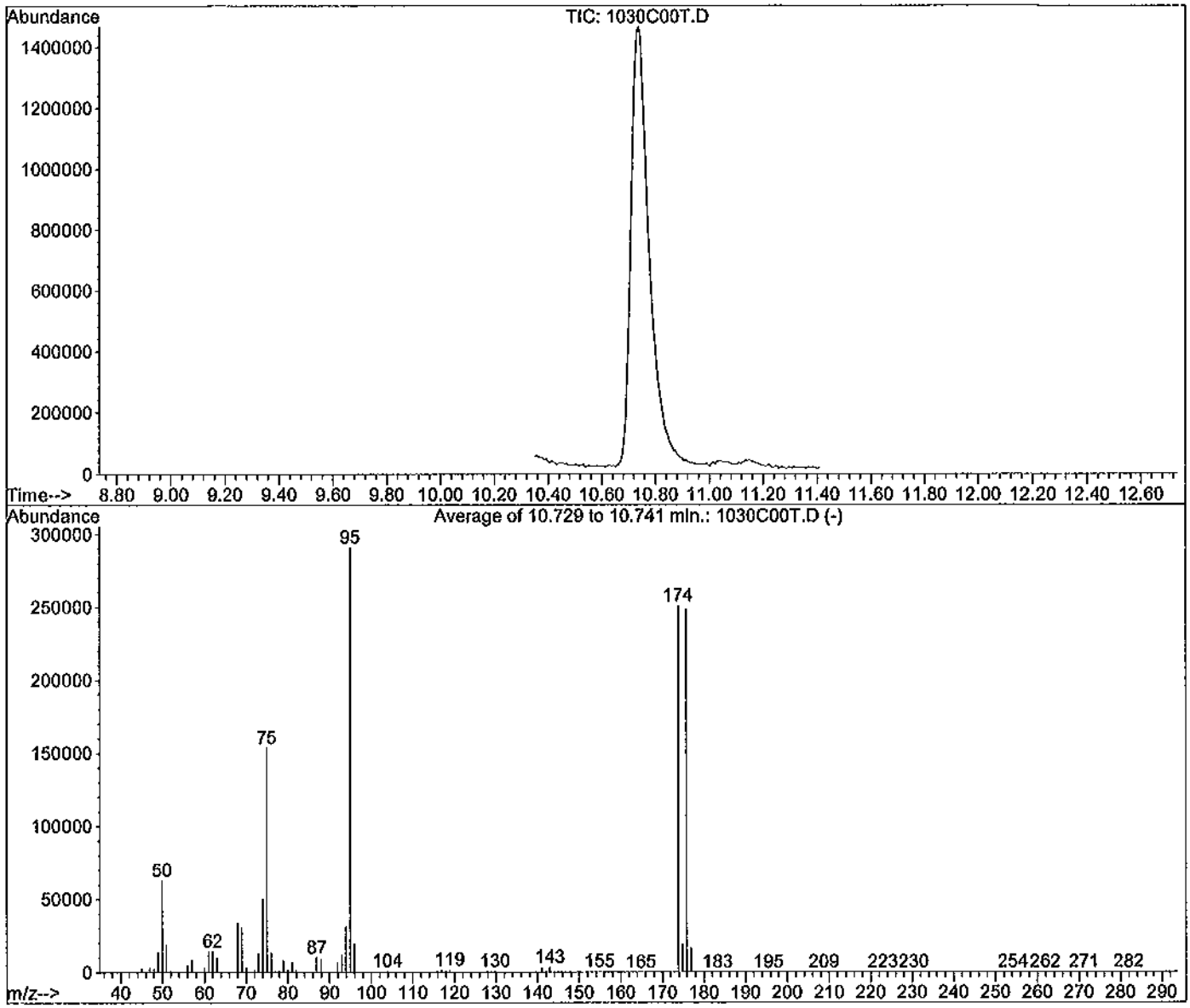
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



BFB

Data File : M:\CHICO\DATA\C111030\1030C00T.D Vial: 1
Acq On : 30 Oct 11 12:52 Operator: STC
Sample : 20ug/mL BFB STD 10-19-11B Inst : Chico
Misc : 2ul Multiplr: 1.00

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B



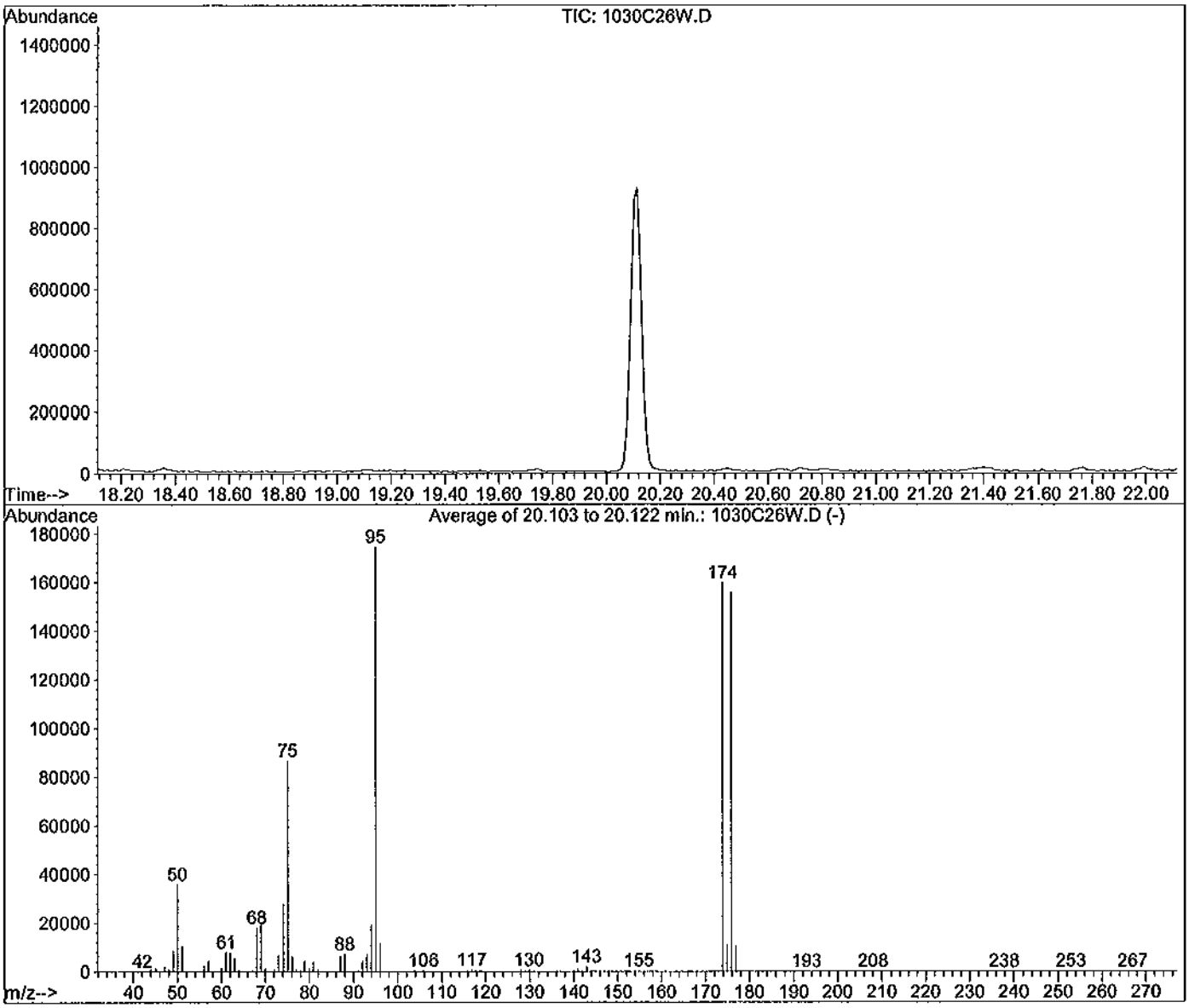
Spectrum Information: Average of 10.729 to 10.741 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	63088	PASS
75	95	30	60	52.9	153777	PASS
95	95	100	100	100.0	290880	PASS
96	95	5	9	6.8	19771	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.3	250924	PASS
175	174	5	9	7.5	18885	PASS
176	174	95	101	99.0	248405	PASS
177	176	5	9	6.7	16664	PASS

BFB

Data File : M:\CHICO\DATA\C111030\1030C26W.D Vial: 1
Acq On : 31 Oct 11 7:21 Operator: STC
Sample : 20ug/mL BFB STD 10-19-11 Inst : Chico
Misc : Water 2ul Multiplr: 1.00

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B

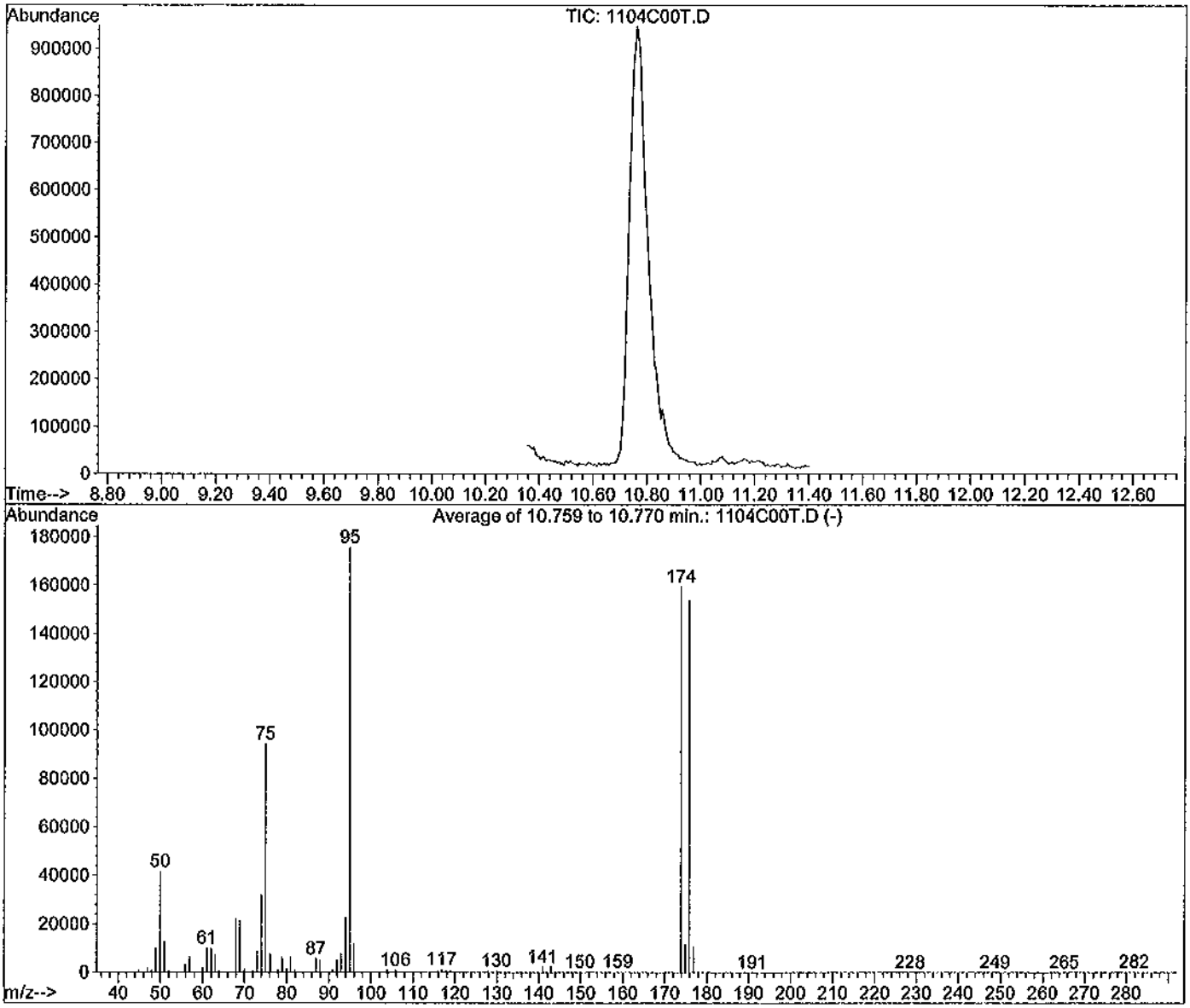


Spectrum Information: Average of 20.103 to 20.122 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	35941	PASS
75	95	30	60	49.7	86725	PASS
95	95	100	100	100.0	174635	PASS
96	95	5	9	6.6	11458	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.6	159913	PASS
175	174	5	9	6.9	11031	PASS
176	174	95	101	97.7	156203	PASS
177	176	5	9	6.7	10398	PASS

Data File : M:\CHICO\DATA\C111104\1104C00T.D Vial: 1
Acq On : 4 Nov 11 8:59 Operator: STC
Sample : 20ug/ml BFB Std 02-17-10D Inst : Chico
Misc : 2ul Multiplr: 1.00

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260

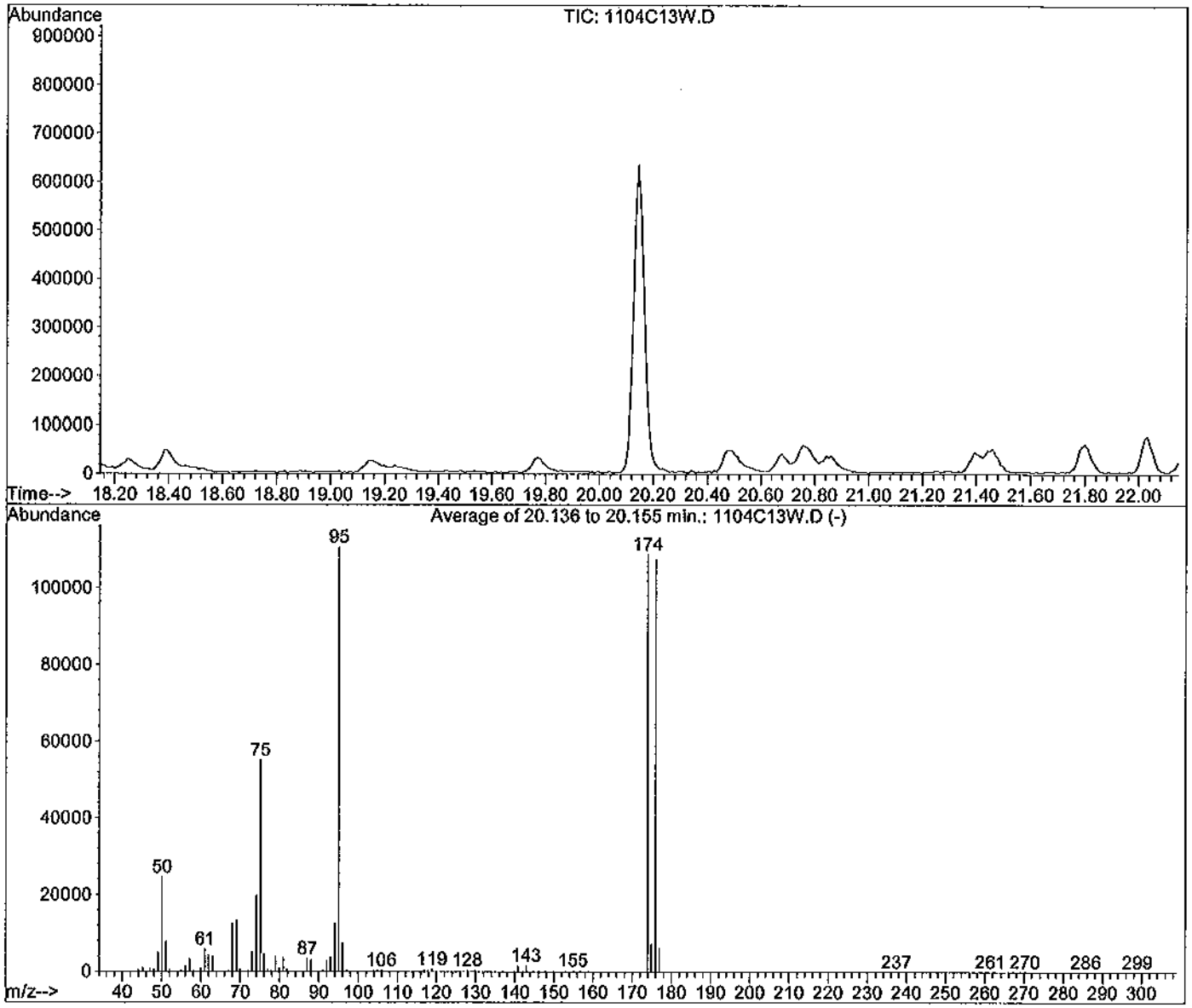


Spectrum Information: Average of 10.759 to 10.770 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	41779	PASS
75	95	30	60	53.8	94494	PASS
95	95	100	100	100.0	175723	PASS
96	95	5	9	6.7	11852	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.8	159509	PASS
175	174	5	9	7.3	11657	PASS
176	174	95	101	96.4	153771	PASS
177	176	5	9	6.9	10576	PASS

Data File : M:\CHICO\DATA\C111104\1104C13W.D Vial: 1
Acq On : 4 Nov 11 18:46 Operator: STC
Sample : 20ug/mL BFB STD 10-19-11B Inst : Chico
Misc : 2ul Multiplr: 1.00

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260



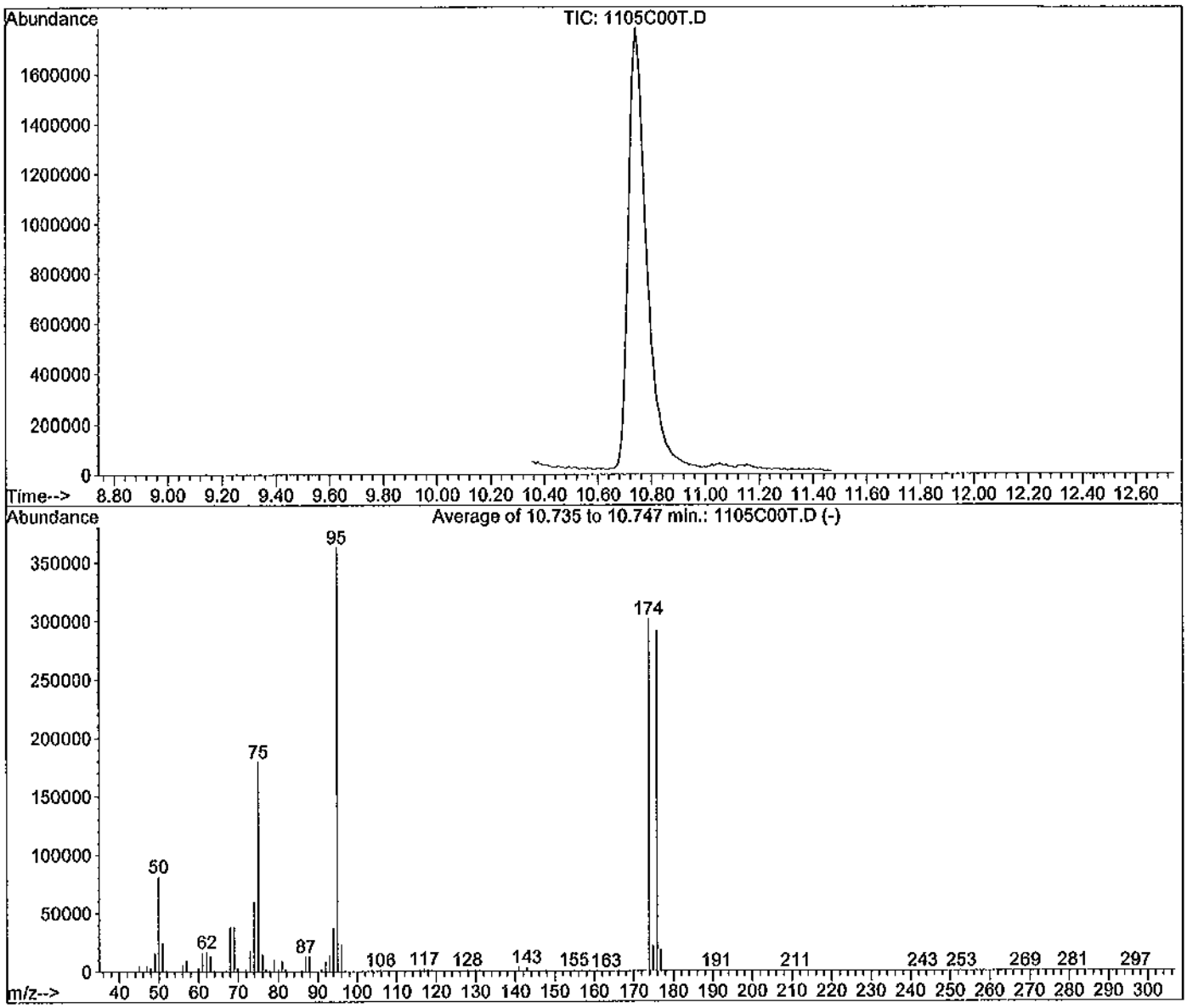
Spectrum Information: Average of 20.136 to 20.155 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	24648	PASS
75	95	30	60	49.8	55173	PASS
95	95	100	100	100.0	110765	PASS
96	95	5	9	6.8	7499	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.3	108845	PASS
175	174	5	9	6.7	7323	PASS
176	174	95	101	98.9	107653	PASS
177	176	5	9	5.9	6344	PASS

Data File : M:\CHICO\DATA\C111104\1105C00T.D
Acq On : 5 Nov 11 10:47
Sample : 20ug/ml BFB Std 02-17-10D
Misc : 2ul

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260



Spectrum Information: Average of 10.735 to 10.747 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	81078	PASS
75	95	30	60	49.5	179691	PASS
95	95	100	100	100.0	362816	PASS
96	95	5	9	6.2	22561	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.1	301376	PASS
175	174	5	9	7.1	21389	PASS
176	174	95	101	96.8	291605	PASS
177	176	5	9	6.2	17986	PASS

10-28-11 RS

B -

Hexachloroethane Solution, 1000 mg/L, 1 ml

020049-02

Lot #	Storage	Expiry
164816	≤ -10 Degrees C	10/14/12

Solv: P/T Methanol

Hexachloroethane

Lot #: 164816 - 28687

Rec: 4/20/11 MFR exp. 10/14/12

10-28-11 RS

C -

Benzyl Chloride Solution, 1000 mg/L, 1 ml

020228-02

Lot #	Storage	Expiry
163373	≤ -10 Degrees	8/29/12

Solv: P/T Methanol

Benzyl Chloride

Lot #: 163373 - 29166

Rec: 8/5/11 MFR exp. 08/29/12

10-28-11 RS

D -

Volatile Mix, 20-29, 2,000 mg/L, 1 ml

121039-02

Lot #	Storage	Expiry
163374	≤ -10 Degrees	8/29/12

Solv: P/T Methanol

Volatile Mix, 20-29

Lot #: 163374 - 28300

Rec: 2/17/11 MFR exp. 08/29/12

10-28-11 RS

E -

Method 8260 VOC Liquids, 54 Compounds, 2,000 mg/L, 1 ml

120023-03

Lot #	Storage	Expiry
164454	≤ -10 Degrees C	10/4/12

Solv: P/T Methanol

8260 VOC Liquids, 54 Comp.

Lot #: 164454 - 27872

Rec: 12/15/10 MFR exp. 10/04/12

10-28-11 RS

F -

Vinyl Acetate Solution, 2,000 mg/L, 1ml

#18332-02

Lot #	Storage	Expiry
178902	≤ -10 Degrees C	12/15/11

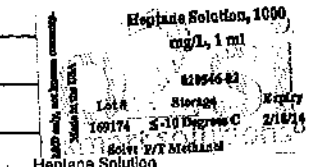
Solv: P/T Methanol

Vinyl Acetate

Lot #: 178902 - 29552

Rec: 9/22/11 MFR exp. 12/15/11

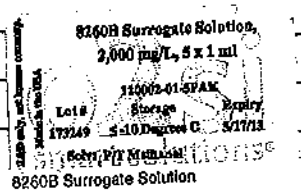
10-28-11 RS. F -



Heptane Solution
Lot #: 169174 - 29248
Rec: 8/5/11 MFR exp. 02/16/14

RS.

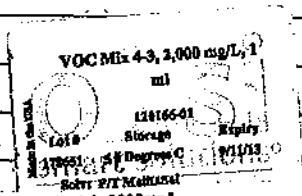
10-28-11 RS. H -



8260B Surrogate Solution
Lot #: 173249 - 28847
Rec: 5/25/11 MFR exp. 05/17/13

RS.

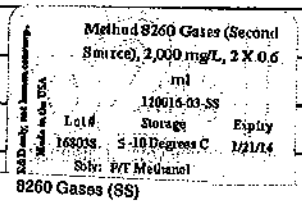
10-28-11 RS I -



VOC Mix 4-3, 2000mg/L
Lot #: 178651 - 29510
Rec: 9/20/11 MFR exp. 09/11/13

RS.

10-28-11 RS J -



8260 Gases (SS)
Lot #: 168038 - 28743
Rec: 4/20/11 MFR exp. 01/21/14

RS.

10-28-11K							
50ug/ml Vol Work Std #7							
Exp:11/05/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169238-28682	10-28-11A	11/30/2011	100
02SI	020049-02	HEXACHLOROETHANE	1000	164816-28687	10-28-11B	12/14/2011	200
02SI	020228-02	Benzyl Chloride	1000	163173-29166	10-28-11C	12/14/2011	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	3500
10-28-11L							
50ug/ml Vol Work Std #1							
Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-C6VE	2000	160092-26627	10-05-11B	12/7/2011	50
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	1950
10-28-11M							
50ug/ml Vol Work Std #6							
Exp:11/04/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	161374-28300	10-28-11D	2/14/2012	100
02SI	120023-03	VOC'S-54 COMP	2000	164454-27872	10-28-11E	2/16/2012	100
02SI	020232-02	Vinyl Acetate	2000	178902-29552	10-28-11F	11/16/2011	100
02SI	020520-02	n-Hexane	1000	163178-27869	10-26-11B	11/14/2011	200
02SI	020546-02	Heptane	1000	169174-29248	10-28-11G	11/14/2011	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	3300
10-28-11N							
50ug/ml Vol Work Std #2							
Exp:11/04/11							
Supplier	ID #	ID	ug/ml				
02SI	121020-05	MSL'S-Ketone Solution	2000	169173-28307	10-12-11B	11/14/2012	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	10/14/2012	3900
		10-28-11O	Exp:	11/4/2011			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		10-28-11K	10/31/2011	200	
		50ug/ml Vol Work Std #8		10-28-11M	10/31/2011	200	
		J&T Brand		10/6/2011	6/8/2012	1600	
		10-28-11P	Exp:	11/4/2011			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		10-28-11L	10/31/2011	200	
		J&T Brand		10/27/2011	6/8/2012	1800	
		10-28-11Q	Exp:	11/4/2011			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		10-28-11N	10/31/2011	200	
		J&T Brand		10/27/2011	6/8/2012	1800	
10-28-11R							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:11/04/11			ug/ml	Lot #	Code	Date	ul
02SI	120002-01	8260B Surr Solution	2000	173249-28847	10-28-11H	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	3900
10-28-11S			Exp:	11/4/2011			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		10-28-11R	10/31/2011	200	
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	1800	
10-28-11T							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:11/04/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
02SI	120166-01	Volatile Mix 4-3	2000	178651-29510	10-28-11I	12/17/2011	500
02SI	020229-09	Acrolein	10000	179941-29661	10-19-11H	11/21/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	3400

10/28/11 RS.

10/2 RS

10/2 RS

10/28/11
RS

10-28-11U							
50ug/ml VOC Std#5							
Exp:11/04/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03-SS	8260 Gases(SS)	2000	168038-28743	10-28-11J	11/30/2011	50
02SI	020145-02-02-S	2-CEVE	2000	152530-27273	10-19-11J	11/3/2011	50
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	1900
10-28-11V							
50ug/ml VOC Std#6							
Exp:11/04/11							
	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120023-03-SS	VOC'S 54 COMP.	2000	163271-27773	09-12-11P	11/14/2011	50
02SI	120296-01	Custom 8260 Solution	2000	166038-27763	09-12-11Q	11/14/2011	50
02SI	020232-02-SS	Vinyl Acetate(SS)	2000	176774-29257	09-12-11R	11/30/2011	50
02SI	020620-02-SS	n-HEXANE	1000	179199-29515	10-12-11F	12/14/2011	100
02SI	020045-02-SS	HEXACHLOROETHANE	1000	154535-25913	09-13-11B	12/29/2011	100
02SI	020546-02-SS	Heptane(SS)	1000	142276-23593	09-13-11C	12/19/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	1550
10-28-11W							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:11/04/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	152531-25468	10-02-11Q	11/3/2011	250
02SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	178607-29549	10-02-11H	11/21/2011	50
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	1700

10-28-11X							
50ug/ml Vol Work Std #7							
Exp:11/04/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169238-28682	10-28-11A	11/30/2011	100
02SI	020045-02	HEXACHLOROETHANE	1000	164815-28587	10-28-11B	12/14/2011	200
02SI	020228-02	Benzyl Chloride	1000	163373-29166	10-28-11C	12/14/2011	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	3500
10-28-11Y							
50ug/ml Vol Work Std #1							
Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	160092-26637	10-06-11B	12/7/2011	50
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	1950
10-28-11Z							
50ug/ml Vol Work Std #8							
Exp:11/04/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	163374-28300	10-28-11O	2/14/2012	100
02SI	120023-03	VOC'S-54 COMP	2000	164454-27872	10-28-11S	2/14/2012	100
02SI	020232-02	Vinyl Acetate	2000	178909-29552	10-28-11F	11/16/2011	100
02SI	020620-02	n-Hexane	1000	163378-27889	10-26-11B	11/14/2011	200
02SI	020546-02	Heptane	1000	169174-29246	10-28-11G	11/14/2011	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	3300
10-28-11AA							
50ug/ml Vol Work Std #2							
Exp:11/04/11							
Supplier	ID #	ID	ug/ml				
02SI	121020-05	KSL'S-Ketone Solution	2000	169173-28307	10-12-11B	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	10/14/2012	3900
		10-28-11AB	Exp:	11/4/2011			
		5ug/ml Vol Work Std #3					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		10-28-11X	10/31/2011	200	
		50ug/ml Vol Work Std #8		10-28-11Z	10/31/2011	200	
		J&T Brand		10/6/2011	6/8/2012	1600	
		10-28-11AC	Exp:	11/4/2011			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		10-28-11Y	10/31/2011	200	
		J&T Brand		10/27/2011	6/8/2012	1800	

GC/MS STANDARD PREPARATION BOOK # ____ PAGE # ____

		10-28-11AD	Exp:	11/4/2011			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		10-28-11AA	10/31/2011	200	
		J&T Brand		10/27/2011	6/8/2012	1800	
10-28-11AE							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:11/04/11			ug/ml	Lot #	Code	Date	ul
02SI	120002-01	8260B Surr Solution	2000	173249-28847	10-28-11H	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	3900
10/28/11 RS.							
10-28-11AF			Exp:	11/4/2011			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		10-28-11AE	10/31/2011	200	
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	1800	
10-28-11AG							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:11/04/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
02SI	120166-01	Volatile Mix 4-3	2000	178651-29510	10-28-11I	12/17/2011	500
02SI	020229-09	Acrolein	10000	179941-29661	10-19-11H	11/21/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	3400

NOTEBOOK INSERT LABEL

Gasoline 47616-U
Lot: LB82077 EXP: FEB/2014 STORAGE: ROOM TEMP. 1 x 1ml

DATE RECEIVED:_____

SUPELCO
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone 814-359-3441

RS.

10/30/11 A-
RS.

STANDARD TRANSFER LABEL

Date of Preparation:
Reference Number:
Description: Gasoline
Lot #: LB82077 - 29133
Rec: 8/4/11 MFR exp. 02/28/14

Exp. Date:
Storage: EXP: FEB/2014
ROOM TEMP.

REST
Cat# 30205

Unleaded gasoline composite
Lot #: A076842 - 29141
Rec: 8/4/11 MFR exp. 10/31/17

RS.

10/30/11 B-
RS.

Unleaded Gasoline Composite Standard
50000 ug/mL each in P&T Methanol
Lot# A076842 Exp. Date: 10/2017 Store: Freezer
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

RS.

10/30/11C						APPL	
2000ug/ml Gasoline			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
Supelco	LB82077	Gasoline	20,000	LB82077-29133	10-30-11A	11/2/2012	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	3/2/2012	1800
10/30/11 RS.							
10/30/11D						APPL	
2000ug/ml Unleaded Gasoline			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
Supelco	30205	Unleaded Gasoline	50,000	A076842-29141	10-30-11B	11/30/2012	80
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	3/2/2012	1920

11/04/11
RS

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-CHICO

	Expiration Date:		11/5/2011								
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #3	5µg/mL Vol Std #12
Date	Conc.	10-28-11AB	10-28-11AF	10-28-11X	10-28-11Z	10-28-11AF	10-28-11AC	10-28-11Y	10-28-11AA	10-28-11AD
Code	µg/L	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11
11-04-11A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
11-04-11B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
11-04-11C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
11-04-11D	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
11-04-11E	5	n/a	n/a	5	5	10	n/a	5	5	n/a
11-04-11F	10	n/a	n/a	10	10	25	n/a	10	20	n/a
11-04-11G	20	n/a	n/a	20	20	40	n/a	20	20	n/a
11-04-11H	40	n/a	n/a	40	40	80	n/a	40	40	n/a
11-04-11I	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD	Final Vol
10-28-11AG	w/P&T H2O
Exp:11-04-11	mL
3	50
6	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

11/04/11
RS

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-MAX

	Expiration Date:		11/5/2011								
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #3	5µg/mL Vol Std #12
Date	Conc.	10-28-11AB	10-28-11AF	10-28-11X	10-28-11Z	10-28-11AF	10-28-11AC	10-28-11Y	10-28-11AA	10-28-11AD
Code	µg/L	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11
11-04-11J	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
11-04-11K	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
11-04-11L	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
11-04-11M	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
11-04-11N	5	n/a	n/a	5	5	10	n/a	5	5	n/a
11-04-11O	10	n/a	n/a	10	10	25	n/a	10	20	n/a
11-04-11P	20	n/a	n/a	20	20	40	n/a	20	20	n/a
11-04-11Q	40	n/a	n/a	40	40	80	n/a	40	40	n/a
11-04-11R	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD	Final Vol
10-28-11AG	w/P&T H2O
Exp:11-04-11	mL
3	50
6	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

11/05/11
RS

A -

Method 8260 Gases, 2,000 mg/L, 2 X 0.6 ml
120016-03
Lot # 169238 Storage ≤ -10 Degrees C Expiry 2/19/14
Solv.: P/T Methanol

Method 8260 Gases
Lot #: 169238 - 28663
Rec: 4/20/11 MFR exp. 02/19/14

11/05/11
RS

B -

Hexachloroethane Solution, 1000 mg/L, 1 ml
020049-02
Lot # 164816 Storage ≤ -10 Degrees C Expiry 10/14/11
Solv.: P/T Methanol

Hexachloroethane
Lot #: 164816 - 29151
Rec: 8/5/11 MFR exp. 10/14/12

11/05/11
RS

C -

Benzyl Chloride Solution, 1000 mg/L, 1 ml
020218-02
Lot # 163373 Storage ≤ -10 Degrees C Expiry 8/29/12
Solv.: P/T Methanol

Benzyl Chloride
Lot #: 163373 - 29167
Rec: 8/5/11 MFR exp. 08/29/12

Injection Log

Directory: M:\CHICO\DATA\C111030\ and M:\CHICO\DATA\C111104\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1030C00T.D	1	20ug/mL BFB STD 10-19-11B	2ul	30 Oct 11 12:52
2	1	1030C05W.D	1	Vol Std 10-30-11@20ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 16:17
3	1	1030C06W.D	1	Vol Std 10-30-11@50ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 17:00
4	1	1030C07W.D	1	Vol Std 10-30-11@100ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 17:43
5	1	1030C08W.D	1	Vol Std 10-30-11@300ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 18:26
6	1	1030C09W.D	1	Vol Std 10-30-11@600ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 19:09
7	1	1030C10W.D	1	Vol Std 10-30-11@800ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 19:52
8	1	1030C11W.D	1	Vol Std 10-30-11@1000ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 20:35
9	1	1030C26W.D	1	20ug/mL BFB STD 10-19-11	Water 2ul	31 Oct 11 7:21
10	1	1030C29W.D	1	GAS 300ug/L (SS)	Water 10mLw/ IS&S:10-30/10-26-11	31 Oct 11 9:31
11	1	1104C00T.D	1	20ug/ml BFB Std 02-17-10D	2ul	4 Nov 11 8:59
12	1	1104C04W.D	1	VOL STD 11-04-11@0.3ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 12:17
13	1	1104C05W.D	1	VOL STD 11-04-11@0.5ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 13:00
14	1	1104C06W.D	1	VOL STD 11-04-11@1.0ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 13:43
15	1	1104C07W.D	1	VOL STD 11-04-11@2.0ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 14:26
16	1	1104C08W.D	1	VOL STD 11-04-11@5.0ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 15:10
17	1	1104C09W.D	1	VOL STD 11-04-11@10ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 15:53
18	1	1104C10W.D	1	VOL STD 11-04-11@20ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 16:36
19	1	1104C11W.D	1	VOL STD 11-04-11@40ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 17:19
20	1	1104C12W.D	1	VOL STD 11-04-11@100ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 18:02
21	1	1104C13W.D	1	20ug/mL BFB STD 10-19-11B	2ul	4 Nov 11 18:46
22	1	1104C17W.D	1	111104A LCS-1WC	Water 10mLw/ IS:10-30-11	4 Nov 11 21:38
23	1	1105C00T.D	1	20ug/ml BFB Std 02-17-10D	2ul	5 Nov 11 10:47
24	1	1105C02W.D	1	VOC STD 11-5-11@10ug/L	Water 10mLw/ IS:10-30-11	5 Nov 11 12:02
25	1	1105C03W.D	1	111105A LCS-1WC	Water 10mLw/ IS:10-30-11	5 Nov 11 12:45
26	1	1105C05W.D	1	Gas CCV 11-05-11@300ug/L	Water 10mLw/ IS:10-30-11	5 Nov 11 14:11
27	1	1105C06W.D	1	111105A LCS-1WC (GAS)	Water 10mLw/ IS:10-30-11	5 Nov 11 14:54
28	1	1105C09W.D	1	111105A BLK-1WC	Water 10mLw/ IS:10-30-11	5 Nov 11 17:04
29	1	1105C10W.D	1	AY50004W01	Water 10mLw/ IS:10-30-11	5 Nov 11 17:48
30	1	1105C11W.D	1	AY50005W01	Water 10mLw/ IS:10-30-11	5 Nov 11 18:31

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.19 J	0.5	0.22	0.11	ug/L	11/10/11	11/11/11	#602D-111110A-AY49334

J = Estimated value.

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOLVED)	50.0	50.0	100	80-120	11/10/2011	1/11/2011	#602D-111110A-AY49334

Comments: _____

METALS
Sample Data

APPL, INC.

Metals Analysis

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024
Sample ID: ES057
Sample Collection Date: 11/2/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66186
APPL ID: AY50005

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22U	0.5	0.22	0.11	ug/L	1	11/10/2011	11/11/2011

Printed: 11/15/2011 1:00:21 PM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\0678MPL.D\0678MPL.D#
Date Acquired: Nov 11 2011 06:46 pm
Operator: NBS
Sample Name: AY5000SW08
Misc Info: 111110A-3015
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	-0.01	ug/l	-0.01	10.03	1000	
11 B	34.60	ug/l	38.44	1.01	1000	
23 Na	30780.00	ug/l	34196.58	0.62	25000	>Cal
24 Mg	9018.00	ug/l	10019.00	0.81	50000	
27 Al	9.35	ug/l	10.38	5.11	20000	
39 K	1865.00	ug/l	2072.02	1.10	20000	
44 Ca	14170.00	ug/l	15742.87	0.68	50000	
47 Ti	0.98	ug/l	1.09	9.48	1000	
51 V	-0.25	ug/l	-0.27	9.33	1000	
52 Cr	0.08	ug/l	0.09	8.97	1000	
55 Mn	832.50	ug/l	924.91	1.02	1000	
56 Fe	460.70	ug/l	511.84	0.09	20000	
59 Co	0.63	ug/l	0.70	2.59	1000	
60 Ni	0.70	ug/l	0.78	4.54	1000	
63 Cu	0.01	ug/l	0.02	54.35	1000	
65 Cu	0.03	ug/l	0.03	87.59	1000	
66 Zn	3.94	ug/l	4.37	2.72	1000	
75 As	-0.36	ug/l	-0.40	5.37	1000	
78 Se	0.02	ug/l	0.02	64.15	1000	
78 Se	0.07	ug/l	0.07	82.23	1000	
88 Sr	88.98	ug/l	98.86	0.41	1000	
88 Sr	90.71	ug/l	100.78	0.28	1000	
95 Mo	0.15	ug/l	0.17	3.57	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	0.00	ug/l	0.00	70.06	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	0.01	ug/l	0.01	81.65	1000	
118 Sn	0.12	ug/l	0.13	13.45	1000	
121 Sb	0.12	ug/l	0.13	5.87	1000	
137 Ba	10.65	ug/l	11.83	0.30	1000	
205 Tl	0.01	ug/l	0.01	29.17	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	-0.16	ug/l	-0.18	1.21	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2761134.00	0.73	2775704.50	99.5	70 - 120	
45 Sc	630742.81	1.52	500780.41	126.0	70 - 120	IS Fai
45 Sc	102167.70	0.46	95494.08	107.0	70 - 120	
45 Sc	2003765.60	1.31	1460980.80	137.2	70 - 120	IS Fai
72 Ge	105359.95	1.32	96219.04	109.5	70 - 120	
72 Ge	47048.36	0.72	43611.78	107.9	70 - 120	
72 Ge	234247.27	0.62	213204.63	109.9	70 - 120	
115 In	1539035.80	1.11	1381264.00	111.4	70 - 120	
159 Tb	2074430.00	0.47	1843940.90	112.5	70 - 120	
165 Ho	2051384.50	0.92	1844184.90	111.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66186 SDG: 66186

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 13:03	%R(1)	True CCV1	Found 13:33	%R(1)	
Lead (Pb)	100	106.3	106	50	50.31	101	50	50.34	101	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66186 SDG: 66186

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 15:05	%R(1)	True CCV1	Found 18:04	%R(1)	
Lead (Pb)	100	106.3	106	50	49.96	99.9	50	48.04	96.1	P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66186 SDG: 66186

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 18:59	%R(1)	True	Found	%R(1)	
Lead (Pb)	100	106.3	106	50	47.78	95.6				P

(1) Control Limits: Metals 90-110

ILM02.0

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66186 SDG: 66186

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 11/11/2011

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	12:57		13:09		13:46		15:17		14:16				
Lead (Pb)	.50	U	.50	U	.50	U	.50	U	.19	J	P		

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66186 SDG: 66186

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 11/11/2011

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
	12:57		18:16		19:11				14:16		
Lead (Pb)	.50	U	.50	U	.50	U			.19	J	P

A.P.P.L. INC.

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Environet, Inc.
ARF No.:	66186	SDG:	66186
ICP ID Number:	Optimus	ICS Source:	Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 13:15	Sol AB 13:21	%R(1)
Lead (Pb)		500	3.499	502	100

(1) Control Limits: Metals 80-120

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\11K11100.B\004CAL
Date Acquired:	Nov 11 2011 12:08 pm
Operator:	NBS
Sample Name:	Calibration Blank
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File:	C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update:	Nov 11 2011 12:06 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	2775705.00	A	31080.00	1.12
7	(Li)	152897.91	P	508.10	0.33
9	Be	164.45	P	15.75	9.58
11	B	9503.37	P	213.80	2.25
23	Na	81958.40	P	248.30	0.30
24	Mg	134.45	P	6.94	5.16
27	Al	111.12	P	16.78	15.10
39	K	60334.78	P	2276.00	3.77
44	Ca	384.84	P	48.59	12.63
45	Sc	500780.41	P	2032.00	0.41
45	Sc	95494.08	P	252.60	0.26
45	Sc	1460981.00	A	25510.00	1.75
47	Ti	4.89	P	0.77	15.75
51	V	3955.25	P	110.20	2.79
52	Cr	547.13	P	20.02	3.66
55	Mn	165.78	P	8.57	5.17
56	Fe	5746.57	P	137.00	2.38
59	Co	1492.99	P	62.44	4.18
60	Ni	69.78	P	22.72	32.56
63	Cu	2222.87	P	55.11	2.48
65	Cu	1076.95	P	27.98	2.60
66	Zn	207.12	P	12.10	5.84
72	Ge	96219.04	P	484.10	0.50
72	Ge	43611.78	P	490.40	1.12
72	Ge	213204.59	P	1657.00	0.78
75	As	266.34	P	7.21	2.71
78	Se	4.67	P	1.53	32.74
78	Se	30.00	P	1.16	3.85
88	Sr	48.89	P	8.39	17.16
88	Sr	188.90	P	11.71	6.20
95	Mo	111.12	P	22.69	20.42
106	(Cd)	31.11	P	10.18	32.72
107	Ag	35.56	P	13.47	37.88
108	(Cd)	27.78	P	5.09	18.33
111	Cd	0.12	P	4.33	3513.10
115	In	1381264.00	A	15790.00	1.14
118	Sn	495.58	P	60.50	12.21
121	Sb	323.35	P	35.28	10.91
137	Ba	91.12	P	13.47	14.78
159	Tb	1843941.00	A	33820.00	1.83
165	Ho	1844185.00	A	22050.00	1.20
205	Tl	78.89	P	5.09	6.45
206	(Pb)	1670.17	P	51.97	3.11
207	(Pb)	1455.69	P	79.06	5.43
208	Pb	6738.71	P	70.43	1.05

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\005CALS.D\005CALS.D#
Date Acquired: Nov 11 2011 12:14 pm
Operator: MSS
Sample Name: 111211 Standard 1
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:12 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	2934478.00	A	12100.00	0.41	0.0000
7 (Li)	160812.41	P	1266.00	0.79	0.0000
9 Be	1031.18	P	27.15	2.63	0.0000
11 B	10014.79	P	224.80	2.24	0.0000
23 Na	101764.30	P	5296.00	5.20	0.0000
24 Mg	2435.84	P	56.81	2.33	0.0000
27 Al	465.58	P	50.04	10.75	0.0000
39 K	63456.74	P	1758.00	2.77	0.0000
44 Ca	441.03	P	5.03	1.14	0.0000
45 Sc	483714.81	P	17820.00	3.68	0.0000
45 Sc	96706.18	P	602.60	0.62	0.0000
45 Sc	1494561.00	A	14240.00	0.95	0.0000
47 Ti	16.89	P	3.36	19.87	0.0000
51 V	4556.33	P	51.66	1.13	0.0000
52 Cr	876.48	P	32.73	3.73	0.0000
55 Mn	7451.77	P	52.30	0.70	0.0000
56 Fe	12699.44	P	213.90	1.68	0.0000
59 Co	1820.58	P	82.65	4.54	0.0000
60 Ni	166.23	P	12.10	7.28	0.0000
63 Cu	3334.65	P	61.70	1.85	0.0000
65 Cu	1647.67	P	94.43	5.73	0.0000
66 Zn	231.56	P	11.34	4.90	0.0000
72 Ge	93081.49	P	2181.00	2.34	0.0000
72 Ge	43620.24	P	387.20	0.89	0.0000
72 Ge	210910.70	P	1414.00	0.67	0.0000
75 As	300.78	P	7.07	2.35	0.0000
78 Se	21.00	P	2.60	12.40	0.0000
78 Se	30.33	P	6.33	20.88	0.0000
88 Sr	303.35	P	25.17	8.30	0.0000
88 Sr	1913.54	P	79.67	4.16	0.0000
95 Mo	385.58	P	18.36	4.76	0.0000
106 (Cd)	51.11	P	6.94	13.58	0.0000
107 Ag	447.80	P	37.47	8.37	0.0000
108 (Cd)	28.89	P	17.10	59.19	0.0000
111 Cd	182.07	P	18.49	10.16	0.0000
115 In	1383497.00	A	12980.00	0.94	0.0000
118 Sn	901.17	P	20.10	2.23	0.0000
121 Sb	988.96	P	26.95	2.73	0.0000
137 Ba	304.46	P	49.48	16.25	0.0000
159 Tb	1838841.00	A	19950.00	1.08	0.0000
165 Ho	1842078.00	A	20850.00	1.13	0.0000
205 Tl	1497.92	P	40.19	2.68	0.0000
206 (Pb)	2154.70	P	105.60	4.90	0.0000
207 (Pb)	1842.42	P	104.10	5.65	0.0000
208 Pb	8565.85	P	320.10	3.74	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	2934478.30	0.41	2775704.50	105.7	70 -	120	
45 Sc	483714.78	3.68	500780.41	96.6	70 -	120	
45 Sc	96706.18	0.62	95494.08	101.3	70 -	120	
45 Sc	1494561.00	0.95	1460980.80	102.3	70 -	120	
72 Ge	93081.49	2.34	96219.04	96.7	70 -	120	
72 Ge	43620.24	0.89	43611.78	100.0	70 -	120	
72 Ge	210910.72	0.67	213204.63	98.9	70 -	120	
115 In	1383496.90	0.94	1381264.00	100.2	70 -	120	
159 Tb	1838841.50	1.08	1843940.90	99.7	70 -	120	
165 Ho	1842078.10	1.13	1844184.90	99.9	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\006CALS.D\006CALS.DA
Date Acquired: Nov 11 2011 12:20 pm
Operator: NBS
Sample Name: 111111 Standard 2
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:18 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3013436.00	A	14250.00	0.47	0.0000
7 (Li)	162843.41	P	655.10	0.40	1.0000
9 Be	10180.43	P	411.30	4.04	1.0000
11 B	16379.42	P	483.40	2.95	1.0000
23 Na	196689.50	P	7056.00	3.59	1.0000
24 Mg	23141.91	P	43.26	0.19	1.0000
27 Al	4021.80	P	226.90	5.64	1.0000
39 K	76357.12	P	2463.00	3.23	1.0000
44 Ca	1793.11	P	71.50	3.99	1.0000
45 Sc	510541.00	P	4569.00	0.89	0.0000
45 Sc	97262.66	P	635.50	0.65	0.0000
45 Sc	1465690.00	A	21530.00	1.47	0.0000
47 Ti	156.45	P	19.06	12.18	1.0000
51 V	8092.54	P	134.80	1.67	1.0000
52 Cr	4117.09	P	42.23	1.03	1.0000
55 Mn	61442.06	P	651.50	1.06	1.0000
56 Fe	82436.35	P	925.30	1.12	1.0000
59 Co	6109.79	P	52.36	0.86	1.0000
60 Ni	1383.64	P	28.30	2.05	1.0000
63 Cu	15516.40	P	233.60	1.51	1.0000
65 Cu	7559.83	P	73.09	0.97	1.0000
66 Zn	1430.31	P	74.87	5.23	1.0000
72 Ge	96818.69	P	1004.00	1.04	0.0000
72 Ge	44609.64	P	326.50	0.73	0.0000
72 Ge	203708.30	P	1751.00	0.86	0.0000
75 As	639.35	P	17.53	2.74	1.0000
78 Se	175.22	P	7.34	4.19	1.0000
78 Se	81.11	P	6.83	8.43	1.0000
88 Sr	3138.24	P	234.10	7.46	1.0000
88 Sr	17034.09	P	556.30	3.27	1.0000
95 Mo	3096.01	P	35.02	1.13	1.0000
106 (Cd)	180.01	P	18.56	10.31	1.0000
107 Ag	4028.49	P	77.05	1.91	1.0000
108 (Cd)	138.89	P	13.47	9.70	1.0000
111 Cd	1685.97	P	41.67	2.47	1.0000
115 In	1324038.00	A	6932.00	0.52	0.0000
118 Sn	5423.48	P	180.10	3.32	1.0000
121 Sb	6328.31	P	130.20	2.06	1.0000
137 Ba	2328.05	P	139.60	6.00	1.0000
159 Tb	1820559.00	A	17780.00	0.98	0.0000
165 Ho	1818461.00	A	19460.00	1.07	0.0000
205 Tl	15160.28	P	220.10	1.45	1.0000
206 (Pb)	7664.74	P	91.74	1.20	1.0000
207 (Pb)	7014.34	P	72.68	1.04	1.0000
208 Pb	31156.53	P	401.40	1.29	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3013436.30	0.47	2775704.50	108.6	70 -	120	
45 Sc	510541.06	0.89	500780.41	101.9	70 -	120	
45 Sc	97262.66	0.65	95494.08	101.9	70 -	120	
45 Sc	1465690.00	1.47	1460980.80	100.3	70 -	120	
72 Ge	96818.70	1.04	96219.04	100.6	70 -	120	
72 Ge	44609.64	0.73	43611.78	102.3	70 -	120	
72 Ge	203708.33	0.86	213204.63	95.5	70 -	120	
115 In	1324038.00	0.52	1381264.00	95.9	70 -	120	
159 Tb	1820559.10	0.98	1843940.90	98.7	70 -	120	
165 Ho	1818460.60	1.07	1844184.90	98.6	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.DA

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\11K11100.B\007CALS.D\007CALS.D#
Date Acquired:	Nov 11 2011 12:27 pm
Operator:	NBS
Sample Name:	111111 Standard 3
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File:	C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update:	Nov 11 2011 12:24 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3129745.00	A	45260.00	1.45	0.0000
7 (Li)	169858.91	P	576.50	0.34	0.7236
9 Be	529831.50	P	2404.00	0.45	0.9999
11 B	352525.41	P	4097.00	1.16	0.9985
23 Na	1470286.00	A	17010.00	1.16	0.9979
24 Mg	1292682.00	A	17130.00	1.33	1.0000
27 Al	182025.00	P	2356.00	1.29	1.0000
39 K	502725.09	P	1262.00	0.25	0.9983
44 Ca	52265.13	P	789.60	1.51	0.9983
45 Sc	522323.31	P	4813.00	0.92	0.0000
45 Sc	98761.96	P	1402.00	1.42	0.0000
45 Sc	1523925.00	A	17440.00	1.14	0.0000
47 Ti	6316.10	P	62.52	0.99	0.9998
51 V	161320.00	P	2272.00	1.41	0.9994
52 Cr	179336.20	P	1262.00	0.70	1.0000
55 Mn	136966.41	P	806.40	0.59	0.9998
56 Fe	3466730.00	A	34680.00	1.00	1.0000
59 Co	254063.59	P	2599.00	1.02	0.9995
60 Ni	64869.85	P	669.40	1.02	0.9997
63 Cu	172209.41	P	983.40	0.57	0.9999
65 Cu	82567.48	P	346.90	0.42	1.0000
66 Zn	30294.80	P	353.70	1.17	0.9973
72 Ge	98255.19	P	550.50	0.56	0.0000
72 Ge	46262.58	P	34.38	0.07	0.0000
72 Ge	211131.20	P	2095.00	0.99	0.0000
75 As	20258.79	P	48.21	0.24	1.0000
78 Se	8196.34	P	137.70	1.68	1.0000
78 Se	2352.20	P	19.65	0.84	0.9963
88 Sr	152226.41	P	2676.00	1.76	0.9999
88 Sr	853159.19	P	3826.00	0.45	1.0000
95 Mo	152546.09	P	1308.00	0.86	0.9999
106 (Cd)	7779.08	P	43.36	0.56	0.9995
107 Ag	203275.00	P	1362.00	0.67	1.0000
108 (Cd)	5850.30	P	115.70	1.98	0.9966
111 Cd	85595.10	P	417.50	0.49	1.0000
115 In	1359449.00	A	15030.00	1.11	0.0000
118 Sn	233787.30	P	2145.00	0.92	0.9998
121 Sb	303264.81	P	1162.00	0.38	1.0000
137 Ba	112289.00	P	1153.00	1.03	1.0000
159 Tb	1852128.00	A	3859.00	0.21	0.0000
165 Ho	1866389.00	A	18420.00	0.99	0.0000
205 Tl	767163.63	P	3647.00	0.48	1.0000
206 (Pb)	267422.81	P	439.20	0.16	0.9998
207 (Pb)	229702.30	P	967.40	0.42	0.9996
208 Pb	1066559.00	P	3421.00	0.32	0.9997

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3129745.00	1.45	2775704.50	112.8	70 -	120	
45 Sc	522323.34	0.92	500780.41	104.3	70 -	120	
45 Sc	98761.96	1.42	95494.08	103.4	70 -	120	
45 Sc	1523925.40	1.14	1460980.80	104.3	70 -	120	
72 Ge	98255.19	0.56	96219.04	102.1	70 -	120	
72 Ge	46262.59	0.07	43611.78	106.1	70 -	120	
72 Ge	211131.19	0.99	213204.63	99.0	70 -	120	
115 In	1359449.00	1.11	1381264.00	98.4	70 -	120	
159 Tb	1852128.10	0.21	1843940.90	100.4	70 -	120	
165 Ho	1866389.00	0.99	1844184.90	101.2	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\008CALS.D\008CALS.D#
Date Acquired: Nov 11 2011 12:33 pm
Operator: NBS
Sample Name: 111111 Standard 4
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:30 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3091825.00	A	34660.00	1.12	0.0000
7 (Li)	169207.09	P	2476.00	1.46	0.7966
9 Be	1184909.00	A	5168.00	0.44	1.0000
11 B	825041.63	A	8516.00	1.03	1.0000
23 Na	2686206.00	A	10730.00	0.40	0.9984
24 Mg	2535966.00	A	10300.00	0.41	1.0000
27 Al	366543.31	P	3283.00	0.90	1.0000
39 K	1039409.00	A	8793.00	0.85	0.9999
44 Ca	104136.20	P	1221.00	1.17	1.0000
45 Sc	526807.38	P	1501.00	0.28	0.0000
45 Sc	100637.20	P	272.50	0.27	0.0000
45 Sc	1546820.00	A	41280.00	2.67	0.0000
47 Ti	12883.09	P	335.40	2.60	1.0000
51 V	324487.59	P	1452.00	0.45	1.0000
52 Cr	360663.69	P	2389.00	0.66	1.0000
55 Mn	247566.30	P	2862.00	1.16	0.9063
56 Fe	6831163.00	A	89870.00	1.32	1.0000
59 Co	505973.59	P	1092.00	0.22	1.0000
60 Ni	128756.60	P	486.80	0.38	1.0000
63 Cu	331294.91	P	1236.00	0.37	0.9984
65 Cu	158678.41	P	595.70	0.38	0.9983
66 Zn	58476.31	P	247.90	0.42	0.9998
72 Ge	100101.50	P	582.20	0.58	0.0000
72 Ge	46752.66	P	94.61	0.20	0.0000
72 Ge	215920.09	P	4942.00	2.29	0.0000
75 As	41314.20	P	335.50	0.81	1.0000
78 Se	16782.86	P	111.00	0.66	1.0000
78 Se	4841.04	P	45.62	0.94	1.0000
88 Sr	308415.19	P	2179.00	0.71	1.0000
88 Sr	1836004.00	A	12020.00	0.65	1.0000
95 Mo	308376.41	P	620.60	0.20	1.0000
106 (Cd)	15606.90	P	85.03	0.54	1.0000
107 Ag	402429.69	P	2133.00	0.53	1.0000
108 (Cd)	11351.61	P	175.20	1.54	1.0000
111 Cd	169137.09	P	1111.00	0.66	1.0000
115 In	1356694.00	A	39030.00	2.88	0.0000
118 Sn	461432.81	P	1252.00	0.27	1.0000
121 Sb	616792.50	P	2811.00	0.46	1.0000
137 Ba	224905.80	P	424.60	0.19	1.0000
159 Tb	1896056.00	A	51090.00	2.69	0.0000
165 Ho	1892444.00	A	47210.00	2.49	0.0000
205 Tl	1621888.00	A	15450.00	0.95	1.0000
206 (Pb)	524239.50	P	2392.00	0.46	1.0000
207 (Pb)	454785.81	P	2844.00	0.63	1.0000
208 Pb	2164409.00	A	4337.00	0.20	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3091824.50	1.12	2775704.50	111.4	70 -	120	
45 Sc	526807.44	0.28	500780.41	105.2	70 -	120	
45 Sc	100637.22	0.27	95494.08	105.4	70 -	120	
45 Sc	1546819.60	2.67	1460980.80	105.9	70 -	120	
72 Ge	100101.52	0.58	96219.04	104.0	70 -	120	
72 Ge	46752.66	0.20	43611.78	107.2	70 -	120	
72 Ge	215920.11	2.29	213204.63	101.3	70 -	120	
115 In	1356693.50	2.88	1381264.00	98.2	70 -	120	
159 Tb	1896055.90	2.69	1843940.90	102.8	70 -	120	
165 Ho	1892443.90	2.49	1844184.90	102.6	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

QCS QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\009_QCS.D\009_QCS.D#
Date Acquired: Nov 11 2011 12:39 pm
Operator: NBS
Sample Name: ICV 111111
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: QCS
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)		Flag
7 (Li)	--------	ug/l	--------	100.00	90 -	110	
9 Be	107.60	ug/l	0.95	100.00	90 -	110	
11 B	105.70	ug/l	0.67	100.00	90 -	110	
23 Na	2518.00	ug/l	0.81	2500.00	90 -	110	
24 Mg	2533.00	ug/l	0.67	2500.00	90 -	110	
27 Al	2547.00	ug/l	1.32	2500.00	90 -	110	
39 K	2615.00	ug/l	0.71	2500.00	90 -	110	
44 Ca	2519.00	ug/l	0.47	2500.00	90 -	110	
47 Ti	97.29	ug/l	0.90	100.00	90 -	110	
51 V	103.40	ug/l	0.55	100.00	90 -	110	
52 Cr	106.50	ug/l	0.63	100.00	90 -	110	
55 Mn	106.70	ug/l	0.21	100.00	90 -	110	
56 Fe	2516.00	ug/l	1.06	2500.00	90 -	110	
59 Co	104.60	ug/l	0.25	100.00	90 -	110	
60 Ni	104.70	ug/l	0.28	100.00	90 -	110	
63 Cu	102.50	ug/l	1.70	100.00	90 -	110	
65 Cu	102.20	ug/l	1.45	100.00	90 -	110	
66 Zn	104.10	ug/l	1.10	100.00	90 -	110	
75 As	98.86	ug/l	1.38	100.00	90 -	110	
78 Se	103.60	ug/l	1.81	100.00	90 -	110	
78 Se	104.10	ug/l	2.03	100.00	90 -	110	
88 Sr	101.20	ug/l	1.63	100.00	90 -	110	
88 Sr	104.30	ug/l	0.60	100.00	90 -	110	
95 Mo	96.15	ug/l	1.35	100.00	90 -	110	
106 (Cd)	--------	ug/l	--------	100.00	90 -	110	
107 Ag	46.26	ug/l	0.71	50.00	90 -	110	
108 (Cd)	--------	ug/l	--------	100.00	90 -	110	
111 Cd	103.60	ug/l	0.47	100.00	90 -	110	
118 Sn	43.82	ug/l	0.17	50.00	90 -	110	Fail
121 Sb	102.70	ug/l	0.18	100.00	90 -	110	
137 Ba	99.56	ug/l	0.34	100.00	90 -	110	
205 Tl	106.40	ug/l	1.20	100.00	90 -	110	
206 (Pb)	--------	ug/l	--------	100.00	90 -	110	
207 (Pb)	--------	ug/l	--------	100.00	90 -	110	
208 Pb	106.30	ug/l	0.89	100.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3157481.00	0.39	2775704.50	113.8	70 -	120	
45 Sc	523431.13	0.16	500780.41	104.5	70 -	120	
45 Sc	100384.52	0.40	95494.08	105.1	70 -	120	
45 Sc	1532510.60	0.50	1460980.80	104.9	70 -	120	
72 Ge	99727.78	0.25	96219.04	103.6	70 -	120	
72 Ge	46938.75	0.91	43611.78	107.6	70 -	120	
72 Ge	212917.78	0.32	213204.63	99.9	70 -	120	
115 In	1371120.50	0.09	1381264.00	99.3	70 -	120	
159 Tb	1873353.00	0.83	1843940.90	101.6	70 -	120	
165 Ho	1868336.50	1.05	1844184.90	101.3	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\012_CCB.D\012_CCB.D#
Date Acquired: Nov 11 2011 12:57 pm
Operator: NBS
Sample Name: ICB 111111
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	0.00 ug/l	64.25	0.12	
11 B	0.03 ug/l	45.15	15.00	
23 Na	7.71 ug/l	8.18	77.10	
24 Mg	0.10 ug/l	55.44	7.50	
27 Al	0.09 ug/l	51.89	3.96	
39 K	-16.07 ug/l	31.35	19.20	
44 Ca	2.26 ug/l	102.26	90.00	
47 Ti	0.02 ug/l	221.48	0.78	
51 V	0.57 ug/l	2.59	0.21	Fail
52 Cr	0.01 ug/l	92.18	0.12	
55 Mn	0.00 ug/l	249.24	0.18	
56 Fe	0.25 ug/l	4.89	40.80	
59 Co	-0.25 ug/l	1.58	0.09	
60 Ni	0.00 ug/l	280.61	0.48	
63 Cu	-0.13 ug/l	3.22	0.39	
65 Cu	-0.13 ug/l	16.74	0.39	
66 Zn	-0.01 ug/l	406.21	6.90	
75 As	-0.09 ug/l	15.13	0.27	
78 Se	0.01 ug/l	58.10	0.30	
78 Se	0.05 ug/l	139.53	0.30	
88 Sr	0.00 ug/l	1034.40	0.03	
88 Sr	0.00 ug/l	24.09	0.03	
95 Mo	0.03 ug/l	16.72	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	50.39	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.01 ug/l	58.78	0.06	
118 Sn	0.03 ug/l	55.51	0.30	
121 Sb	0.13 ug/l	5.57	0.03	Fail
137 Ba	0.01 ug/l	116.79	0.12	
205 Tl	0.01 ug/l	38.28	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.20 ug/l	0.78	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3073279.00	0.84	2775704.50	110.7	70 - 120	
45 Sc	545909.38	3.12	500780.41	109.0	70 - 120	
45 Sc	100165.70	0.44	95494.08	104.9	70 - 120	
45 Sc	1499557.30	0.22	1460980.80	102.6	70 - 120	
72 Ge	101795.60	2.62	96219.04	105.8	70 - 120	
72 Ge	46734.16	0.18	43611.78	107.2	70 - 120	
72 Ge	210654.83	0.54	213204.63	98.8	70 - 120	
115 In	1336860.30	0.89	1381264.00	96.8	70 - 120	
159 Tb	1857728.00	1.11	1843940.90	100.7	70 - 120	
165 Ho	1856236.60	1.27	1844184.90	100.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\013_CCV.D\013_CCV.D#
Date Acquired: Nov 11 2011 01:03 pm
Operator: NBS
Sample Name: CCV 111111
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)		Flag
7 (Li)	--------	ug/l	--------	50.00	90 -	110	
9 Be	45.86	ug/l	1.99	50.00	90 -	110	
11 B	43.69	ug/l	2.15	50.00	90 -	110	Fail
23 Na	1276.00	ug/l	1.53	1250.00	90 -	110	
24 Mg	2559.00	ug/l	1.05	2500.00	90 -	110	
27 Al	1001.00	ug/l	1.70	1000.00	90 -	110	
39 K	917.90	ug/l	1.26	1000.00	90 -	110	
44 Ca	2498.00	ug/l	1.41	2500.00	90 -	110	
47 Ti	49.40	ug/l	0.95	50.00	90 -	110	
51 V	50.61	ug/l	1.18	50.00	90 -	110	
52 Cr	50.27	ug/l	1.38	50.00	90 -	110	
55 Mn	54.78	ug/l	1.56	50.00	90 -	110	
56 Fe	1027.00	ug/l	1.77	1000.00	90 -	110	
59 Co	50.74	ug/l	0.93	50.00	90 -	110	
60 Ni	50.88	ug/l	1.81	50.00	90 -	110	
63 Cu	50.81	ug/l	0.58	50.00	90 -	110	
65 Cu	50.69	ug/l	0.50	50.00	90 -	110	
66 Zn	51.32	ug/l	0.03	50.00	90 -	110	
75 As	49.12	ug/l	0.62	50.00	90 -	110	
78 Se	50.32	ug/l	1.71	50.00	90 -	110	
78 Se	49.06	ug/l	1.10	50.00	90 -	110	
88 Sr	49.93	ug/l	0.31	50.00	90 -	110	
88 Sr	47.83	ug/l	0.44	50.00	90 -	110	
95 Mo	50.08	ug/l	0.70	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	24.63	ug/l	0.57	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	50.07	ug/l	1.49	50.00	90 -	110	
118 Sn	50.35	ug/l	0.28	50.00	90 -	110	
121 Sb	49.48	ug/l	0.77	50.00	90 -	110	
137 Ba	49.18	ug/l	0.66	50.00	90 -	110	
205 Tl	48.89	ug/l	0.40	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	50.31	ug/l	0.14	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3009330.80	0.85	2775704.50	108.4	70 -	120	
45 Sc	502422.56	3.92	500780.41	100.3	70 -	120	
45 Sc	98428.88	1.42	95494.08	103.1	70 -	120	
45 Sc	1480640.80	1.02	1460980.80	101.3	70 -	120	
72 Ge	97237.93	2.52	96219.04	101.1	70 -	120	
72 Ge	46537.16	0.17	43611.78	106.7	70 -	120	
72 Ge	206334.70	0.20	213204.63	96.8	70 -	120	
115 In	1333758.10	0.36	1381264.00	96.6	70 -	120	
159 Tb	1832635.60	0.51	1843940.90	99.4	70 -	120	
165 Ho	1824652.90	0.58	1844184.90	98.9	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\014_CCB.D\014_CCB.D#
Date Acquired: Nov 11 2011 01:09 pm
Operator: NBS
Sample Name: CCB 111111
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	0.00 ug/l	75.05	0.12	
11 B	0.19 ug/l	2.24	15.00	
23 Na	3.09 ug/l	28.12	77.10	
24 Mg	0.17 ug/l	59.53	7.50	
27 Al	0.11 ug/l	49.92	3.96	
39 K	-13.77 ug/l	41.47	19.20	
44 Ca	1.49 ug/l	82.56	90.00	
47 Ti	0.00 ug/l	584.34	0.78	
51 V	0.76 ug/l	2.01	0.21	Fail
52 Cr	0.02 ug/l	22.00	0.12	
55 Mn	0.01 ug/l	26.62	0.18	
56 Fe	0.44 ug/l	10.30	40.80	
59 Co	-0.27 ug/l	0.49	0.09	
60 Ni	0.00 ug/l	169.21	0.48	
63 Cu	-0.16 ug/l	12.22	0.39	
65 Cu	-0.16 ug/l	4.20	0.39	
66 Zn	0.03 ug/l	67.54	6.90	
75 As	-0.03 ug/l	60.04	0.27	
78 Se	0.10 ug/l	23.77	0.30	
78 Se	0.02 ug/l	138.81	0.30	
88 Sr	0.00 ug/l	574.89	0.03	
88 Sr	0.00 ug/l	33.45	0.03	
95 Mo	0.10 ug/l	2.35	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	6.78	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.01 ug/l	137.32	0.06	
118 Sn	0.06 ug/l	31.67	0.30	
121 Sb	0.69 ug/l	6.56	0.03	Fail
137 Ba	0.01 ug/l	127.23	0.12	
205 Tl	0.02 ug/l	7.09	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.21 ug/l	0.72	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2980962.00	0.72	2775704.50	107.4	70 - 120	
45 Sc	505025.28	3.19	500780.41	100.8	70 - 120	
45 Sc	97675.82	0.75	95494.08	102.3	70 - 120	
45 Sc	1485366.30	0.36	1460980.80	101.7	70 - 120	
72 Ge	97202.46	2.05	96219.04	101.0	70 - 120	
72 Ge	45665.85	0.21	43611.78	104.7	70 - 120	
72 Ge	205716.23	0.30	213204.63	96.5	70 - 120	
115 In	1321174.40	0.50	1381264.00	95.6	70 - 120	
159 Tb	1807747.90	0.40	1843940.90	98.0	70 - 120	
165 Ho	1813776.00	0.73	1844184.90	98.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
ISTD: Pass

ICS-A QC Report

Data File: C:\ICPCHEM\1\DATA\11K111O0.B\015ICSA.D\015ICSA.D#
Date Acquired: Nov 11 2011 01:15 pm
Acq. Method: 62A1111A.M
Operator: NBS
Sample Name: ICSA 111111
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal. Update: Nov 11 2011 12:36 pm
Sample Type: ICSA
Dilution Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	High Limit ppb	Flag
7 (Li)	---	3	--------	ug/l	--------		
9 Be	45	3	0.83	ug/l	2.55		
11 B	45	3	1.56	ug/l	2.76		
23 Na	45	2	93250.00	ug/l	0.74		
24 Mg	45	2	91170.00	ug/l	1.03		
27 Al	45	2	104800.00	ug/l	1.31		
39 K	45	2	95010.00	ug/l	0.86		
44 Ca	45	2	101900.00	ug/l	1.03		
47 Ti	45	2	1961.00	ug/l	0.73		
51 V	45	2	2.53	ug/l	1.39		
52 Cr	45	2	2.35	ug/l	1.68		
55 Mn	45	2	7.50	ug/l	0.84		
56 Fe	45	2	92610.00	ug/l	0.44		
59 Co	45	2	20.49	ug/l	0.58		
60 Ni	45	2	3.86	ug/l	0.68		
63 Cu	72	2	1.60	ug/l	2.77		
65 Cu	72	2	1.70	ug/l	4.01		
66 Zn	72	2	5.11	ug/l	1.25		
75 As	72	2	1.55	ug/l	3.09		
78 Se	72	1	1.07	ug/l	5.94		
78 Se	72	2	1.16	ug/l	9.00		
88 Sr	72	2	1.41	ug/l	4.62		
88 Sr	72	3	1.37	ug/l	1.32		
95 Mo	72	3	1834.00	ug/l	1.74		
106 (Cd)	---	3	--------	ug/l	--------		
107 Ag	115	3	1.97	ug/l	1.05		
108 (Cd)	---	3	--------	ug/l	--------		
111 Cd	115	3	2.42	ug/l	3.67		
118 Sn	115	3	1.18	ug/l	1.50		
121 Sb	115	3	1.93	ug/l	2.34		
137 Ba	115	3	3.88	ug/l	2.04		
205 Tl	159	3	1.62	ug/l	1.90		
206 (Pb)	---	3	--------	ug/l	--------		
207 (Pb)	---	3	--------	ug/l	--------		
208 Pb	159	3	3.50	ug/l	0.41		

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2777926	0.73	2775705	100.1	70 - 120	
45 Sc	1	527513	3.31	500780	105.3	70 - 120	
45 Sc	2	94664	0.69	95494	99.1	70 - 120	
45 Sc	3	1465735	0.50	1460981	100.3	70 - 120	
72 Ge	1	98457	2.56	96219	102.3	70 - 120	
72 Ge	2	46798	1.22	43612	107.3	70 - 120	
72 Ge	3	216093	0.53	213205	101.4	70 - 120	
115 In	3	1235992	0.56	1381264	89.5	70 - 120	
159 Tb	3	1778881	0.42	1843941	96.5	70 - 120	
165 Ho	3	1783575	1.04	1844185	96.7	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11K111O0.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

ICS-AB QC Report

Data File: C:\ICPCHEM\1\DATA\11K1100.B\016ICSB.D\016ICSB.D#
Date Acquired: Nov 11 2011 01:21 pm
Acq. Method: 62A1111A.M
Operator: NBS
Sample Name: ICSAB 111111
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal. Update: Nov 11 2011 12:36 pm
Sample Type: ICSAB
Dilution Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
7 (Li)	---	3	--------	--------	---		-	
9 Be	45	3	246.60	1.11	250	98.6	80 - 120	
11 B	45	3	1.63	0.34	---		-	
23 Na	45	2	96100.00	0.19	---		-	
24 Mg	45	2	93890.00	0.39	---		-	
27 Al	45	2	107500.00	1.06	---		-	
39 K	45	2	97710.00	0.66	---		-	
44 Ca	45	2	105500.00	1.05	---		-	
47 Ti	45	2	2014.00	0.31	2000	100.7	80 - 120	
51 V	45	2	267.30	0.98	250	106.9	80 - 120	
52 Cr	45	2	270.40	2.94	250	108.2	80 - 120	
55 Mn	45	2	264.30	0.56	250	105.7	80 - 120	
56 Fe	45	2	94360.00	0.20	---		-	
59 Co	45	2	282.40	0.78	250	113.0	80 - 120	
60 Ni	45	2	481.90	0.90	500	96.4	80 - 120	
63 Cu	72	2	218.20	1.17	250	87.3	80 - 120	
65 Cu	72	2	218.60	0.91	250	87.4	80 - 120	
66 Zn	72	2	513.60	0.37	500	102.7	80 - 120	
75 As	72	2	239.20	0.52	250	95.7	80 - 120	
78 Se	72	1	251.50	0.86	250	100.6	80 - 120	
78 Se	72	2	233.50	0.80	250	93.4	80 - 120	
88 Sr	72	2	1.62	0.60	---		-	
88 Sr	72	3	1.51	0.87	---		-	
95 Mo	72	3	2131.00	0.52	2000	106.6	80 - 120	
106 (Cd)	---	3	--------	--------	---		-	
107 Ag	115	3	535.90	1.10	500	107.2	80 - 120	
108 (Cd)	---	3	--------	--------	---		-	
111 Cd	115	3	495.00	0.98	500	99.0	80 - 120	
118 Sn	115	3	1.45	2.79	---		-	
121 Sb	115	3	274.60	0.82	250	109.8	80 - 120	
137 Ba	115	3	271.00	0.98	250	108.4	80 - 120	
205 Tl	159	3	252.50	0.03	250	101.0	80 - 120	
206 (Pb)	---	3	--------	--------	---		-	
207 (Pb)	---	3	--------	--------	---		-	
208 Pb	159	3	502.00	0.13	500	100.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2732517	0.30	2775705	98.4	70 - 120	
45 Sc	1	511020	0.99	500780	102.0	70 - 120	
45 Sc	2	93932	0.16	95494	98.4	70 - 120	
45 Sc	3	1418244	0.91	1460981	97.1	70 - 120	
72 Ge	1	96432	0.78	96219	100.2	70 - 120	
72 Ge	2	46185	0.98	43612	105.9	70 - 120	
72 Ge	3	209601	0.65	213205	98.3	70 - 120	
115 In	3	1203221	0.93	1381264	87.1	70 - 120	
159 Tb	3	1775149	0.42	1843941	96.3	70 - 120	
165 Ho	3	1779108	0.39	1844185	96.5	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11K1100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\018_CCV.D\018_CCV.D#
Date Acquired: Nov 11 2011 01:33 pm
Operator: NBS
Sample Name: CCV 111111
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)		Flag
7 (Li)	--------	ug/l	--------	50.00	90 -	110	
9 Be	45.54	ug/l	0.43	50.00	90 -	110	
11 B	42.52	ug/l	0.69	50.00	90 -	110	Fail
23 Na	1232.00	ug/l	0.90	1250.00	90 -	110	
24 Mg	2553.00	ug/l	1.13	2500.00	90 -	110	
27 Al	1002.00	ug/l	1.24	1000.00	90 -	110	
39 K	910.10	ug/l	0.77	1000.00	90 -	110	
44 Ca	2506.00	ug/l	0.99	2500.00	90 -	110	
47 Ti	49.11	ug/l	2.38	50.00	90 -	110	
51 V	50.62	ug/l	1.42	50.00	90 -	110	
52 Cr	49.48	ug/l	1.20	50.00	90 -	110	
55 Mn	54.25	ug/l	1.47	50.00	90 -	110	
56 Fe	1014.00	ug/l	0.73	1000.00	90 -	110	
59 Co	50.51	ug/l	0.59	50.00	90 -	110	
60 Ni	50.70	ug/l	1.36	50.00	90 -	110	
63 Cu	49.70	ug/l	0.40	50.00	90 -	110	
65 Cu	49.73	ug/l	0.19	50.00	90 -	110	
66 Zn	49.96	ug/l	0.97	50.00	90 -	110	
75 As	48.64	ug/l	0.06	50.00	90 -	110	
78 Se	48.54	ug/l	0.17	50.00	90 -	110	
78 Se	48.82	ug/l	0.30	50.00	90 -	110	
88 Sr	49.77	ug/l	0.41	50.00	90 -	110	
88 Sr	48.29	ug/l	0.56	50.00	90 -	110	
95 Mo	51.00	ug/l	1.55	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	25.03	ug/l	0.97	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	49.94	ug/l	1.03	50.00	90 -	110	
118 Sn	51.03	ug/l	1.26	50.00	90 -	110	
121 Sb	50.47	ug/l	0.55	50.00	90 -	110	
137 Ba	50.01	ug/l	0.80	50.00	90 -	110	
205 Tl	48.64	ug/l	0.31	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	50.34	ug/l	1.15	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3132762.00	0.73	2775704.50	112.9	70 -	120	
45 Sc	534639.31	0.21	500780.41	106.8	70 -	120	
45 Sc	99077.84	0.49	95494.08	103.8	70 -	120	
45 Sc	1513729.60	0.46	1460980.80	103.6	70 -	120	
72 Ge	102211.11	0.47	96219.04	106.2	70 -	120	
72 Ge	47244.57	0.27	43611.78	108.3	70 -	120	
72 Ge	214737.88	0.60	213204.63	100.7	70 -	120	
115 In	1389034.00	1.09	1381264.00	100.6	70 -	120	
159 Tb	1908915.90	0.41	1843940.90	103.5	70 -	120	
165 Ho	1921136.40	0.48	1844184.90	104.2	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\020_CCB.D\020_CCB.D#
Date Acquired: Nov 11 2011 01:46 pm
Operator: NBS
Sample Name: CCB 111111
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	#VALUE!	
9 Be	0.00	ug/l	342.89	0.12	
11 B	-0.21	ug/l	27.87	15.00	
23 Na	-22.55	ug/l	2.00	77.10	
24 Mg	0.32	ug/l	24.61	7.50	
27 Al	0.31	ug/l	30.94	3.96	
39 K	-13.04	ug/l	28.54	19.20	
44 Ca	-2.47	ug/l	54.66	90.00	
47 Ti	0.02	ug/l	115.52	0.78	
51 V	1.17	ug/l	4.59	0.21	Fail
52 Cr	0.01	ug/l	119.76	0.12	
55 Mn	0.00	ug/l	605.19	0.18	
56 Fe	0.83	ug/l	6.77	40.80	
59 Co	-0.30	ug/l	0.59	0.09	
60 Ni	0.00	ug/l	211.25	0.48	
63 Cu	-0.31	ug/l	1.69	0.39	
65 Cu	-0.31	ug/l	4.87	0.39	
66 Zn	0.00	ug/l	866.90	6.90	
75 As	-0.07	ug/l	27.14	0.27	
78 Se	0.03	ug/l	41.10	0.30	
78 Se	0.07	ug/l	100.62	0.30	
88 Sr	0.00	ug/l	114.02	0.03	
88 Sr	0.00	ug/l	18.44	0.03	
95 Mo	0.09	ug/l	4.01	0.21	
106 (Cd)	--------	ug/l	--------	#VALUE!	
107 Ag	0.01	ug/l	12.14	0.09	
108 (Cd)	--------	ug/l	--------	#VALUE!	
111 Cd	0.00	ug/l	1077.10	0.06	
118 Sn	0.03	ug/l	30.18	0.30	
121 Sb	0.29	ug/l	4.29	0.03	Fail
137 Ba	0.01	ug/l	115.49	0.12	
205 Tl	0.01	ug/l	19.13	0.03	
206 (Pb)	--------	ug/l	--------	#VALUE!	
207 (Pb)	--------	ug/l	--------	#VALUE!	
208 Pb	-0.21	ug/l	1.63	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3042523.00	0.11	2775704.50	109.6	70 - 120	
45 Sc	529492.56	0.66	500780.41	105.7	70 - 120	
45 Sc	97690.27	0.93	95494.08	102.3	70 - 120	
45 Sc	1482243.40	0.75	1460980.80	101.5	70 - 120	
72 Ge	101254.01	0.60	96219.04	105.2	70 - 120	
72 Ge	46065.66	0.31	43611.78	105.6	70 - 120	
72 Ge	210454.86	0.84	213204.63	98.7	70 - 120	
115 In	1353362.30	0.71	1381264.00	98.0	70 - 120	
159 Tb	1859786.10	0.52	1843940.90	100.9	70 - 120	
165 Ho	1863063.90	0.81	1844184.90	101.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\032_CCV.D\032_CCV.D#
Date Acquired: Nov 11 2011 03:05 pm
Operator: NBS
Sample Name: CCV 111111
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)		Flag
7 (Li)	--------	ug/l	--------	50.00	90 -	110	
9 Be	45.98	ug/l	0.90	50.00	90 -	110	
11 B	43.38	ug/l	1.83	50.00	90 -	110	Fail
23 Na	1250.00	ug/l	2.32	1250.00	90 -	110	
24 Mg	2541.00	ug/l	1.13	2500.00	90 -	110	
27 Al	992.10	ug/l	1.33	1000.00	90 -	110	
39 K	905.50	ug/l	1.76	1000.00	90 -	110	
44 Ca	2473.00	ug/l	1.61	2500.00	90 -	110	
47 Ti	49.01	ug/l	0.71	50.00	90 -	110	
51 V	50.64	ug/l	0.61	50.00	90 -	110	
52 Cr	49.61	ug/l	0.94	50.00	90 -	110	
55 Mn	54.01	ug/l	0.87	50.00	90 -	110	
56 Fe	1013.00	ug/l	1.52	1000.00	90 -	110	
59 Co	50.36	ug/l	0.94	50.00	90 -	110	
60 Ni	51.02	ug/l	1.41	50.00	90 -	110	
63 Cu	49.96	ug/l	0.98	50.00	90 -	110	
65 Cu	49.87	ug/l	0.48	50.00	90 -	110	
66 Zn	50.14	ug/l	1.34	50.00	90 -	110	
75 As	48.56	ug/l	0.79	50.00	90 -	110	
78 Se	47.94	ug/l	1.13	50.00	90 -	110	
78 Se	48.27	ug/l	2.37	50.00	90 -	110	
88 Sr	50.07	ug/l	0.24	50.00	90 -	110	
88 Sr	46.85	ug/l	0.80	50.00	90 -	110	
95 Mo	48.88	ug/l	0.75	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	24.26	ug/l	1.57	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	49.33	ug/l	0.71	50.00	90 -	110	
118 Sn	50.24	ug/l	1.40	50.00	90 -	110	
121 Sb	49.54	ug/l	1.18	50.00	90 -	110	
137 Ba	49.63	ug/l	2.49	50.00	90 -	110	
205 Tl	48.65	ug/l	0.58	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	49.96	ug/l	0.90	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3188763.30	1.52	2775704.50	114.9	70 -	120	
45 Sc	530164.38	0.11	500780.41	105.9	70 -	120	
45 Sc	96337.35	1.21	95494.08	100.9	70 -	120	
45 Sc	1476239.00	1.18	1460980.80	101.0	70 -	120	
72 Ge	102958.30	0.45	96219.04	107.0	70 -	120	
72 Ge	45995.51	1.09	43611.78	105.5	70 -	120	
72 Ge	211979.86	0.56	213204.63	99.4	70 -	120	
115 In	1355180.90	1.54	1381264.00	98.1	70 -	120	
159 Tb	1863114.30	0.80	1843940.90	101.0	70 -	120	
165 Ho	1880561.90	0.45	1844184.90	102.0	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\034_CCB.D\034_CCB.D#
Date Acquired: Nov 11 2011 03:17 pm
Operator: NBS
Sample Name: CCB 111111
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	0.00 ug/l	69.30	0.12	
11 B	-0.21 ug/l	1.18	15.00	
23 Na	-12.29 ug/l	7.14	77.10	
24 Mg	0.25 ug/l	17.30	7.50	
27 Al	0.17 ug/l	52.39	3.96	
39 K	-13.38 ug/l	34.73	19.20	
44 Ca	-0.64 ug/l	345.23	90.00	
47 Ti	0.01 ug/l	249.07	0.78	
51 V	1.42 ug/l	3.15	0.21	Fail
52 Cr	0.03 ug/l	9.62	0.12	
55 Mn	0.01 ug/l	149.75	0.18	
56 Fe	0.83 ug/l	6.84	40.80	
59 Co	-0.29 ug/l	0.85	0.09	
60 Ni	-0.01 ug/l	222.72	0.48	
63 Cu	-0.38 ug/l	4.80	0.39	
65 Cu	-0.41 ug/l	3.73	0.39	
66 Zn	0.00 ug/l	2628.40	6.90	
75 As	0.07 ug/l	32.28	0.27	
78 Se	0.02 ug/l	97.30	0.30	
78 Se	0.10 ug/l	82.67	0.30	
88 Sr	0.00 ug/l	540.84	0.03	
88 Sr	0.00 ug/l	24.02	0.03	
95 Mo	0.03 ug/l	20.10	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	72.34	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.00 ug/l	426.65	0.06	
118 Sn	0.05 ug/l	13.48	0.30	
121 Sb	0.29 ug/l	11.14	0.03	Fail
137 Ba	0.02 ug/l	76.66	0.12	
205 Tl	0.01 ug/l	1.73	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.25 ug/l	1.69	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3085838.80	0.28	2775704.50	111.2	70 - 120	
45 Sc	543008.13	0.74	500780.41	108.4	70 - 120	
45 Sc	96730.10	0.69	95494.08	101.3	70 - 120	
45 Sc	1456388.00	1.14	1460980.80	99.7	70 - 120	
72 Ge	104225.84	0.21	96219.04	108.3	70 - 120	
72 Ge	45874.70	1.25	43611.78	105.2	70 - 120	
72 Ge	211968.23	0.39	213204.63	99.4	70 - 120	
115 In	1335750.50	0.67	1381264.00	96.7	70 - 120	
159 Tb	1825624.90	0.43	1843940.90	99.0	70 - 120	
165 Ho	1821355.50	0.60	1844184.90	98.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\060_CCV.D\060_CCV.D#
Date Acquired: Nov 11 2011 06:04 pm
Operator: NBS
Sample Name: CCV 111111
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected	QC Range(%)	Flag
7 (Li)	-------- ug/l	--------	50.00	90 - 110	
9 Be	43.59 ug/l	0.52	50.00	90 - 110	Fail
11 B	39.89 ug/l	0.37	50.00	90 - 110	Fail
23 Na	1206.00 ug/l	0.25	1250.00	90 - 110	
24 Mg	2492.00 ug/l	1.14	2500.00	90 - 110	
27 Al	988.60 ug/l	0.65	1000.00	90 - 110	
39 K	883.40 ug/l	0.62	1000.00	90 - 110	Fail
44 Ca	2445.00 ug/l	1.17	2500.00	90 - 110	
47 Ti	49.55 ug/l	0.70	50.00	90 - 110	
51 V	52.18 ug/l	0.86	50.00	90 - 110	
52 Cr	49.10 ug/l	0.91	50.00	90 - 110	
55 Mn	53.67 ug/l	0.37	50.00	90 - 110	
56 Fe	999.40 ug/l	0.75	1000.00	90 - 110	
59 Co	49.93 ug/l	0.37	50.00	90 - 110	
60 Ni	50.18 ug/l	0.47	50.00	90 - 110	
63 Cu	48.01 ug/l	1.08	50.00	90 - 110	
65 Cu	47.95 ug/l	1.23	50.00	90 - 110	
66 Zn	48.48 ug/l	0.85	50.00	90 - 110	
75 As	48.40 ug/l	0.84	50.00	90 - 110	
78 Se	44.75 ug/l	1.93	50.00	90 - 110	Fail
78 Se	46.76 ug/l	2.40	50.00	90 - 110	
88 Sr	49.65 ug/l	0.75	50.00	90 - 110	
88 Sr	43.83 ug/l	0.41	50.00	90 - 110	Fail
95 Mo	45.84 ug/l	0.72	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	24.47 ug/l	1.71	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	48.94 ug/l	2.42	50.00	90 - 110	
118 Sn	49.84 ug/l	1.46	50.00	90 - 110	
121 Sb	50.04 ug/l	0.62	50.00	90 - 110	
137 Ba	50.55 ug/l	2.58	50.00	90 - 110	
205 Tl	46.49 ug/l	1.08	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	48.04 ug/l	0.60	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3120885.30	0.68	2775704.50	112.4	70 - 120	
45 Sc	528291.50	1.60	500780.41	105.5	70 - 120	
45 Sc	94943.62	0.72	95494.08	99.4	70 - 120	
45 Sc	1497531.60	0.60	1460980.80	102.5	70 - 120	
72 Ge	107482.91	1.52	96219.04	111.7	70 - 120	
72 Ge	46381.07	0.48	43611.78	106.3	70 - 120	
72 Ge	233866.19	0.20	213204.63	109.7	70 - 120	
115 In	1403864.60	1.34	1381264.00	101.6	70 - 120	
159 Tb	1927869.00	0.42	1843940.90	104.6	70 - 120	
165 Ho	1902582.90	0.32	1844184.90	103.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

5 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\062_CCB.D\062_CCB.D#
Date Acquired: Nov 11 2011 06:16 pm
Operator: NBS
Sample Name: CCB 111111
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	0.00 ug/l	45.82	0.12	
11 B	-0.52 ug/l	3.32	15.00	
23 Na	-14.13 ug/l	1.97	77.10	
24 Mg	0.40 ug/l	18.80	7.50	
27 Al	0.37 ug/l	36.41	3.96	
39 K	-25.01 ug/l	22.10	19.20	
44 Ca	-5.06 ug/l	39.41	90.00	
47 Ti	-0.01 ug/l	153.32	0.78	
51 V	3.23 ug/l	1.14	0.21	Fail
52 Cr	0.11 ug/l	18.29	0.12	
55 Mn	0.56 ug/l	2.13	0.18	Fail
56 Fe	0.91 ug/l	1.90	40.80	
59 Co	-0.29 ug/l	0.95	0.09	
60 Ni	-0.01 ug/l	26.61	0.48	
63 Cu	-0.57 ug/l	1.33	0.39	
65 Cu	-0.57 ug/l	1.17	0.39	
66 Zn	0.10 ug/l	36.98	6.90	
75 As	0.63 ug/l	2.54	0.27	Fail
78 Se	0.03 ug/l	36.72	0.30	
78 Se	0.20 ug/l	17.06	0.30	
88 Sr	0.01 ug/l	140.22	0.03	
88 Sr	0.00 ug/l	12.28	0.03	
95 Mo	0.01 ug/l	62.46	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	55.01	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.01 ug/l	225.87	0.06	
118 Sn	0.05 ug/l	34.43	0.30	
121 Sb	0.19 ug/l	1.47	0.03	Fail
137 Ba	0.00 ug/l	114.50	0.12	
205 Tl	0.01 ug/l	8.77	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.25 ug/l	1.47	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3025901.00	0.96	2775704.50	109.0	70 - 120	
45 Sc	540897.69	0.43	500780.41	108.0	70 - 120	
45 Sc	95060.94	0.12	95494.08	99.5	70 - 120	
45 Sc	1475771.40	0.55	1460980.80	101.0	70 - 120	
72 Ge	108235.30	0.84	96219.04	112.5	70 - 120	
72 Ge	46007.31	1.05	43611.78	105.5	70 - 120	
72 Ge	232509.75	0.78	213204.63	109.1	70 - 120	
115 In	1409864.80	1.11	1381264.00	102.1	70 - 120	
159 Tb	1904300.90	0.32	1843940.90	103.3	70 - 120	
165 Ho	1879356.80	0.14	1844184.90	101.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\069_CCV.D\069_CCV.D#
Date Acquired: Nov 11 2011 06:59 pm
Operator: NBS
Sample Name: CCV 111111
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected	QC Range(%)	Flag
7 (Li)	-------- ug/l	--------	50.00	90 - 110	
9 Be	41.96 ug/l	0.44	50.00	90 - 110	Fail
11 B	37.94 ug/l	0.36	50.00	90 - 110	Fail
23 Na	1187.00 ug/l	0.86	1250.00	90 - 110	
24 Mg	2481.00 ug/l	0.35	2500.00	90 - 110	
27 Al	988.40 ug/l	0.29	1000.00	90 - 110	
39 K	891.50 ug/l	0.86	1000.00	90 - 110	Fail
44 Ca	2444.00 ug/l	0.83	2500.00	90 - 110	
47 Ti	49.28 ug/l	0.95	50.00	90 - 110	
51 V	50.92 ug/l	0.36	50.00	90 - 110	
52 Cr	48.86 ug/l	0.40	50.00	90 - 110	
55 Mn	53.78 ug/l	0.05	50.00	90 - 110	
56 Fe	1002.00 ug/l	0.30	1000.00	90 - 110	
59 Co	49.75 ug/l	0.58	50.00	90 - 110	
60 Ni	49.90 ug/l	1.02	50.00	90 - 110	
63 Cu	48.36 ug/l	0.88	50.00	90 - 110	
65 Cu	48.31 ug/l	1.10	50.00	90 - 110	
66 Zn	48.91 ug/l	1.42	50.00	90 - 110	
75 As	48.51 ug/l	1.21	50.00	90 - 110	
78 Se	45.98 ug/l	4.00	50.00	90 - 110	
78 Se	47.69 ug/l	2.39	50.00	90 - 110	
88 Sr	50.02 ug/l	2.42	50.00	90 - 110	
88 Sr	44.60 ug/l	0.54	50.00	90 - 110	Fail
95 Mo	47.15 ug/l	0.87	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	24.76 ug/l	0.89	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	48.81 ug/l	0.53	50.00	90 - 110	
118 Sn	49.90 ug/l	0.17	50.00	90 - 110	
121 Sb	49.52 ug/l	0.67	50.00	90 - 110	
137 Ba	50.56 ug/l	0.34	50.00	90 - 110	
205 Tl	46.29 ug/l	1.03	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	47.78 ug/l	0.63	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2985567.00	0.53	2775704.50	107.6	70 - 120	
45 Sc	487961.94	6.11	500780.41	97.4	70 - 120	
45 Sc	95404.65	0.66	95494.08	99.9	70 - 120	
45 Sc	1525855.80	1.18	1460980.80	104.4	70 - 120	
72 Ge	103631.21	4.70	96219.04	107.7	70 - 120	
72 Ge	46230.60	0.75	43611.78	106.0	70 - 120	
72 Ge	239856.61	0.42	213204.63	112.5	70 - 120	
115 In	1477339.60	0.26	1381264.00	107.0	70 - 120	
159 Tb	1984393.10	0.51	1843940.90	107.6	70 - 120	
165 Ho	1953717.00	1.26	1844184.90	105.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

4 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\071_CCB.D\071_CCB.D#
Date Acquired: Nov 11 2011 07:11 pm
Operator: NBS
Sample Name: CCB 111111
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	#VALUE!	
9 Be	0.00	ug/l	354.93	0.12	
11 B	-0.50	ug/l	1.33	15.00	
23 Na	-18.60	ug/l	3.31	77.10	
24 Mg	0.77	ug/l	11.28	7.50	
27 Al	0.41	ug/l	61.51	3.96	
39 K	-15.97	ug/l	35.55	19.20	
44 Ca	-5.51	ug/l	24.66	90.00	
47 Ti	0.00	ug/l	618.86	0.78	
51 V	2.07	ug/l	1.59	0.21	Fail
52 Cr	0.05	ug/l	16.40	0.12	
55 Mn	0.54	ug/l	4.09	0.18	Fail
56 Fe	1.11	ug/l	3.58	40.80	
59 Co	-0.29	ug/l	0.81	0.09	
60 Ni	-0.02	ug/l	55.04	0.48	
63 Cu	-0.58	ug/l	1.68	0.39	
65 Cu	-0.59	ug/l	2.73	0.39	
66 Zn	0.01	ug/l	110.45	6.90	
75 As	0.23	ug/l	18.98	0.27	
78 Se	0.03	ug/l	26.03	0.30	
78 Se	0.12	ug/l	27.96	0.30	
88 Sr	0.01	ug/l	37.54	0.03	
88 Sr	0.01	ug/l	19.07	0.03	
95 Mo	0.01	ug/l	60.81	0.21	
106 (Cd)	--------	ug/l	--------	#VALUE!	
107 Ag	0.01	ug/l	23.72	0.09	
108 (Cd)	--------	ug/l	--------	#VALUE!	
111 Cd	0.01	ug/l	86.89	0.06	
118 Sn	0.06	ug/l	11.23	0.30	
121 Sb	0.20	ug/l	2.41	0.03	Fail
137 Ba	0.01	ug/l	270.48	0.12	
205 Tl	0.01	ug/l	7.49	0.03	
206 (Pb)	--------	ug/l	--------	#VALUE!	
207 (Pb)	--------	ug/l	--------	#VALUE!	
208 Pb	-0.26	ug/l	0.79	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2980384.00	0.41	2775704.50	107.4	70 - 120	
45 Sc	499034.78	5.31	500780.41	99.7	70 - 120	
45 Sc	96901.73	0.42	95494.08	101.5	70 - 120	
45 Sc	1527813.50	0.50	1460980.80	104.6	70 - 120	
72 Ge	103880.64	4.84	96219.04	108.0	70 - 120	
72 Ge	46726.97	0.51	43611.78	107.1	70 - 120	
72 Ge	244428.58	0.30	213204.63	114.6	70 - 120	
115 In	1468846.40	0.59	1381264.00	106.3	70 - 120	
159 Tb	1966759.90	0.53	1843940.90	106.7	70 - 120	
165 Ho	1940966.80	0.35	1844184.90	105.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.19 J	0.5	0.22	0.11	ug/L	11/10/11	11/11/11	#602D-111110A-AY49334

J = Estimated value.

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\024SMPL.D\024SMPL.D#
Date Acquired: Nov 11 2011 02:16 pm
Operator: NBS
Sample Name: 111110A-3015-BLK
Misc Info: 111110A-3015
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	-0.01 ug/l	-0.01	2.73	1000	
11 B	0.02 ug/l	0.02	15.56	1000	
23 Na	35.01 ug/l	38.90	12.71	25000	
24 Mg	5.25 ug/l	5.83	2.15	50000	
27 Al	6.63 ug/l	7.37	3.21	20000	
39 K	-19.19 ug/l	-21.32	24.75	20000	
44 Ca	187.10 ug/l	207.87	2.16	50000	
47 Ti	0.09 ug/l	0.10	43.80	1000	
51 V	-0.78 ug/l	-0.86	1.87	1000	
52 Cr	-0.04 ug/l	-0.04	28.95	1000	
55 Mn	0.23 ug/l	0.26	6.88	1000	
56 Fe	2.70 ug/l	3.00	5.14	20000	
59 Co	-0.27 ug/l	-0.30	0.86	1000	
60 Ni	0.12 ug/l	0.14	23.87	1000	
63 Cu	-0.44 ug/l	-0.49	2.50	1000	
65 Cu	-0.44 ug/l	-0.49	2.58	1000	
66 Zn	7.48 ug/l	8.31	3.75	1000	
75 As	-0.53 ug/l	-0.59	2.55	1000	
78 Se	-0.01 ug/l	-0.01	26.71	1000	
78 Se	-0.01 ug/l	-0.02	520.99	1000	
88 Sr	0.14 ug/l	0.16	12.74	1000	
88 Sr	0.14 ug/l	0.16	3.88	1000	
95 Mo	0.02 ug/l	0.02	6.80	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.00 ug/l	0.00	212.49	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.02 ug/l	0.02	26.66	1000	
118 Sn	0.12 ug/l	0.13	6.01	1000	
121 Sb	0.07 ug/l	0.08	7.73	1000	
137 Ba	0.04 ug/l	0.04	9.41	1000	
205 Tl	0.01 ug/l	0.01	22.33	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	0.17 ug/l	0.19	1.81	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3205542.30	0.83	2775704.50	115.5	70 - 120	
45 Sc	579022.81	0.89	500780.41	115.6	70 - 120	
45 Sc	106222.45	0.45	95494.08	111.2	70 - 120	
45 Sc	1635333.40	0.66	1460980.80	111.9	70 - 120	
72 Ge	108091.34	0.67	96219.04	112.3	70 - 120	
72 Ge	49642.59	1.23	43611.78	113.8	70 - 120	
72 Ge	228973.69	0.34	213204.63	107.4	70 - 120	
115 In	1505106.90	0.63	1381264.00	109.0	70 - 120	
159 Tb	2069441.80	1.02	1843940.90	112.2	70 - 120	
165 Ho	2056674.30	0.60	1844184.90	111.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOLVED)	50.0	50.0	100	80-120	11/10/2011	1/11/2011	#602D-111110A-AY49334

Comments: _____

Printed: 11/15/2011 1:00:15 PM
APPL Standard LCS

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\025SMPL.D\025SMPL.D#
Date Acquired: Nov 11 2011 02:22 pm
Operator: NBS
Sample Name: 111110A-3015-LCS
Misc Info: 111110A-3015
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
Last Cal Update: Nov 11 2011 12:36 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	7.09	ug/l	7.88	0.95	1000	
11 B	34.46	ug/l	38.29	0.83	1000	
23 Na	4313.00	ug/l	4791.74	0.33	25000	
24 Mg	4287.00	ug/l	4762.86	0.50	50000	
27 Al	378.80	ug/l	420.85	1.07	20000	
39 K	819.80	ug/l	910.80	1.14	20000	
44 Ca	4772.00	ug/l	5301.69	0.81	50000	
47 Ti	43.16	ug/l	47.95	0.73	1000	
51 V	44.89	ug/l	49.87	0.68	1000	
52 Cr	46.85	ug/l	52.05	0.52	1000	
55 Mn	48.25	ug/l	53.61	0.34	1000	
56 Fe	188.60	ug/l	209.53	0.62	20000	
59 Co	45.14	ug/l	50.15	0.81	1000	
60 Ni	45.24	ug/l	50.26	0.75	1000	
63 Cu	42.57	ug/l	47.30	0.51	1000	
65 Cu	42.70	ug/l	47.44	0.10	1000	
66 Zn	94.53	ug/l	105.02	0.68	1000	
75 As	39.81	ug/l	44.23	0.66	1000	
78 Se	36.57	ug/l	40.63	2.90	1000	
78 Se	37.79	ug/l	41.98	1.41	1000	
88 Sr	47.19	ug/l	52.43	0.39	1000	
88 Sr	45.26	ug/l	50.28	0.18	1000	
95 Mo	45.43	ug/l	50.47	0.63	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	16.57	ug/l	18.41	1.13	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	8.34	ug/l	9.26	2.50	1000	
118 Sn	48.01	ug/l	53.34	0.41	1000	
121 Sb	42.84	ug/l	47.60	0.50	1000	
137 Ba	44.60	ug/l	49.55	0.91	1000	
205 Tl	43.45	ug/l	48.27	0.08	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	45.08	ug/l	50.08	0.48	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3106113.00	0.94	2775704.50	111.9	70 - 120	
45 Sc	583837.94	0.76	500780.41	116.6	70 - 120	
45 Sc	104815.63	0.97	95494.08	109.8	70 - 120	
45 Sc	1623628.90	0.72	1460980.80	111.1	70 - 120	
72 Ge	109519.99	0.75	96219.04	113.8	70 - 120	
72 Ge	48705.67	0.97	43611.78	111.7	70 - 120	
72 Ge	226177.02	0.48	213204.63	106.1	70 - 120	
115 In	1499201.30	0.50	1381264.00	108.5	70 - 120	
159 Tb	2052386.10	0.41	1843940.90	111.3	70 - 120	
165 Ho	2061841.80	0.62	1844184.90	111.8	70 - 120	

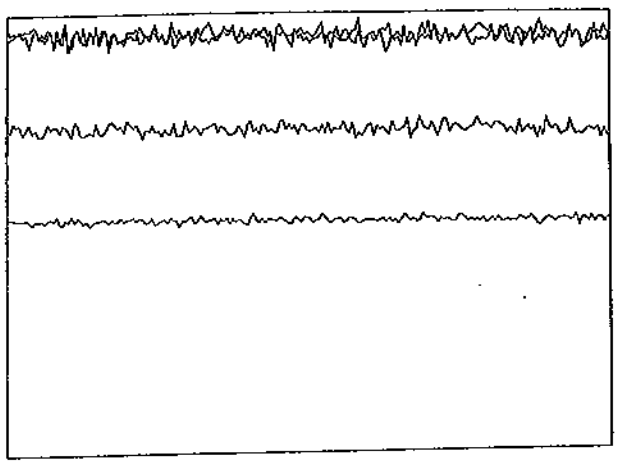
ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

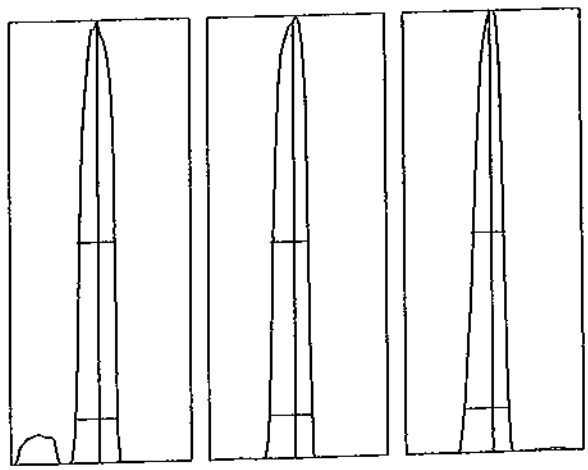
Tune Report

Tune File : nogas.u
Comment : 111111



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	1.410%
Doubly Charged:	70/140	1.051%

m/z	Range	Count	Mean	RSD%	Background
7	50,000	26283.0	26440.3	1.09	0.40
89	20,000	19274.0	18861.9	1.39	2.20
205	20,000	14914.0	14722.1	1.50	5.80
156/140	2	1.520%	1.398%	6.48	
70/140	2	1.065%	1.038%	8.17	
140	20,000	18882.0	19064.3	1.33	4.10



m/z:	7	89	205
Height:	26,611	18,699	14,936
Axis:	7.00	89.00	205.00
W-50%:	0.65	0.65	0.60
W-10%:	0.700	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Nov 11, 2011 10:05:38
Printed : Nov 11, 2011 10:05:40

Tune Report

Tune File : nogas.u
Comment : 111111

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1600 W	Extract 1	:	0 V	AMU Gain	:	128
RF Matching	:	1.66 V	Extract 2	:	-130 V	AMU Offset	:	127
Smpl Depth	:	9.6 mm	Omega Bias-ce	:	-22 V	Axis Gain	:	1
Torch-H	:	-0.1 mm	Omega Lens-ce	:	-1.2 V	Axis Offset	:	-0.02
Torch-V	:	0.1 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	1.02 L/min	QP Focus	:	5 V			
Makeup Gas	:	0.1 L/min	Cell Exit	:	-30 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1660 V
Sample Pump	:	--- rps	OctP RF	:	180 V	Pulse HV	:	1460 V
S/C Temp	:	2 degC	OctP Bias	:	-6 V			

===Reaction Cell===								
Reaction Mode	:	OFF						
H2 Gas	:	0 mL/min	He Gas	:	0 mL/min	Optional Gas	:	--- %

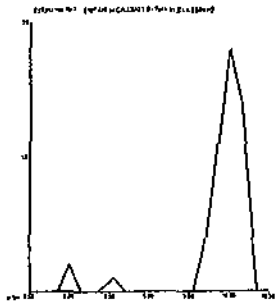
Generated : Nov 11, 2011 10:05:38
Printed : Nov 11, 2011 10:05:42

200.8 QC Tune Report

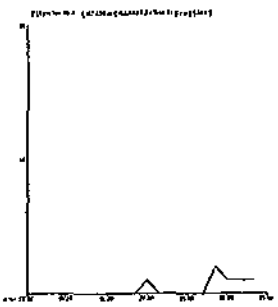
Data File: C:\ICPCHEM\1\DATA\11K11100.B\001TUNE.D
Date Acquired: Nov 11 2011 11:48 am
Acq. Method: TN200_8.M
Operator: NBS
Sample Name: 100ppb Tune sol
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

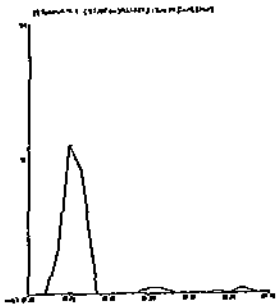
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	65891175	64840372	65630536	65890148	66486284	66608536	1.01	5.00	
24 Mg	120432836	########	########	########	########	########	1.16	5.00	
59 Co	111175066	########	########	########	########	########	0.73	5.00	
115 In	122240964	########	########	########	########	########	0.81	5.00	
208 Pb	63959189	64419004	64182972	63372424	64206080	63615464	1.13	5.00	



9 Be
Mass Calib.
Actual: 9.00
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



24 Mg
Mass Calib.
Actual: 23.95
Required: 23.90 - 24.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:



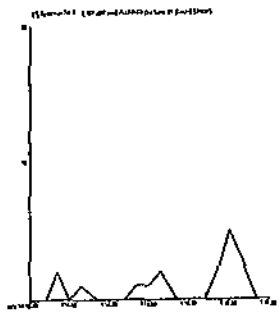
59 Co

Mass Calib.

Actual:	59.00		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



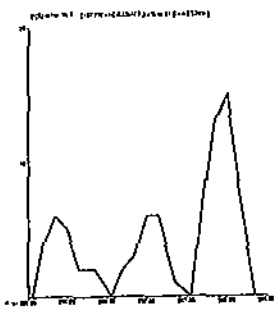
115 In

Mass Calib.

Actual:	115.05		
Required:	114.90	-	115.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.90		
Flag:			



208 Pb

Mass Calib.

Actual:	208.00		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.80		
Flag:			

Tune Result: Pass

Metals Standards Log Book # 34 Page #001

NBS 11/11/11
6020/6020A
(A)

NBS 11/11/11

ICP-MS STANDARDS 6020/6020A/3015/3051A
Today's Date: 11/11/2011
Expires: 11/18/2011
Prep Date 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot # K19023
20mL HCL / 2000mL DI Water
Lot #4110110
Expires: 11/18/2011

Standard 4
Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/11/2011

Standard 3 11/18/2011
Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	Env. Express	1036407-28139
25 uL	CCV-B	Env. Express	1036410-28140
25 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 11/11/2011

Standard 2 11/18/2011
Amount STD
500 uL Standard 4 11/11/2011
Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011

Standard 1 11/18/2011
Amount STD
50 uL Standard 4 11/11/2011
Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011

ICP-MS ICV 11/18/2011
Amount STD
50 uL QCS ICV A CPI 11C174-28548
50 uL QCS ICV B CPI 11C174-28549
Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011

ICSA Prep: 11/18/2011
1 mL ICSA CPI 11C066-28529
Prepared in 5 mL of 1% HNO3/1.0% HCL 11/11/2011

ICSAB Prep: 11/18/2011
1mL ICSA CPI 11C066-28529
0.025mL INT O2SI 1023805-28210
Prepared in 5 mL of 1% HNO3/1.0% HCL 11/11/2011

ICP-LOR 11/18/2011
Amount STD
50 uL CCV-A Env. Express 1036407-28139
50 uL CCV-B Env. Express 1036410-28140
50 uL CCV-C Env. Express 1100309-28141
Prepared in 10 mL of 1% HNO3/1.0% HCL 11/11/2011

SDH 11/11/11
200.7
Exp (A)

SDH 11/11/11

2%HNO3 / 2%HCl BLK					200.7 ICV				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
40 mL	HCL	BDH	4110110	10/14/2011	0.5ML	QCS ICV A	CPI	11C174-28548	9/17/2012
40 mL	HNO3	JT BAKER	K19023	10/14/2011	0.5ML	QCS ICV B	CPI	11C174-28549	9/17/2012
Prepared in 2000 ml DI Water					Prepared in 50ml 2%HNO3/2%HCl				
					200.7 ICSA				
STD 1 / LDL 200.7					0.5mL	Al	CPI	10E012-27685	4/20/2012
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	0.5mL	Ca	CPI	11A006-28528	9/15/2012
0.250 mL	200.7 LDL	O2SI	1028857-29687	11/1/2012	0.5mL	Mg	CPI	10H213-2786	4/20/2012
Prepared in 50 ml 2%HNO3/2%HCl					0.5mL	Fe	O2SI	1022245-27699	4/22/2012
STD 3 / HDL 200.7					Prepared in 50 ml 2%HNO3/2%HCl				
0.5 mL	CCV-A	ABSOLUTE	091409-25206	9/14/2012	200.7 ICSAB				
0.5 mL	CCV-B	ABSOLUTE	091109-25208	9/14/2012	0.5mL	Al	CPI	10E012-27685	4/20/2012
0.5 mL	CCV-C	ABSOLUTE	091009-25207	9/10/2012	0.5mL	Ca	CPI	11A006-28528	9/15/2012
STD 2 / CCV1 200.7					0.5mL	Mg	CPI	10H213-2786	4/20/2012
AMOUNT	STD	PREP DATE	EXP DATE		0.5mL	Fe	O2SI	1022245-27699	4/22/2012
25mL	STD 3	11/4/2011	11/11/2011		0.25mL	INT SPECIAL MIX	O2SI	160495-01-01	3/1/2012
25mL	2%HNO3/2%HCl	11/4/2011	11/11/2011		Prepared in 50 ml 2%HNO3/2%HCl				
CCV2 200.7									
15mL	STD 3	11/4/2011	11/11/2011						
25mL	2%HNO3/2%HCl	11/4/2011	11/11/2011						

SDH 11/11/11
6010B/6010C
(A)

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	BDH	4110110	10/14/2011	1mL	Al	CPI	10E012-27685	4/20/2012
20 mL	HNO3	JT BAKER	K19023	10/14/2011	1mL	Ca	CPI	11A006-28528	9/15/2012
Prepared in 2000 ml DI Water					1mL	Mg	CPI	10H213-2786	4/20/2012
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1022245-27699	4/22/2012
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	ABSOLUTE	091409-25205	9/14/2012	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	10E012-27685	4/20/2012
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11A006-28528	9/15/2012
1ML	CCV-A	ABSOLUTE	091409-25206	9/14/2012	1mL	Mg	CPI	10H213-2786	4/20/2012
1ML	CCV-B	ABSOLUTE	091109-25208	9/14/2012	1mL	Fe	O2SI	1022245-27699	4/22/2012
1ML	CCV-C	ABSOLUTE	091009-25207	9/10/2012	0.5mL	IT SPECIAL M	O2SI	160495-01-01	3/1/2012
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	11C174-28548	9/17/2012
25mL	STD 3	11/11/2011	11/18/2011		0.5ML	QCS ICV B	CPI	11C174-28549	9/17/2012
25mL	1%HNO3/5%HCl	11/11/2011	11/18/2011		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	11/11/2011	11/18/2011						
25mL	1%HNO3/5%HCl	11/11/2011	11/18/2011						

SDH 11/11/11

M3015

Metals Digestion Worksheet

Method Name 3015 Digestion **Prep Method** M3015 **Set** 111110A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1028408-29435
Spiked ID 2	LCSW LOT# 1028416-29433
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/10/11 10:40:00 AM
Witnessed By	KWS Date: 11/10/11 10:40:00 AM

Starting Temp:	25 C
Ending Temp:	170 C
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	11/10/11 12:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	111110A Blk				45mL	50mL	11/10/11 10:40	equip: Venus
2	111110A LCS		90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
3	AY48273	AY48273W01			45mL	50mL	11/10/11 10:40	equip: Venus
4	AY48273 DUP	AY48273W01			45mL	50mL	11/10/11 10:40	equip: Venus
5	AY48273 MS	AY48273W01	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
6	AY48639	AY48639W05			45mL	50mL	11/10/11 10:40	equip: Venus
7	AY48640	AY48640W05			45mL	50mL	11/10/11 10:40	equip: Venus
8	AY48641	AY48641W05			45mL	50mL	11/10/11 10:40	equip: Venus
9	AY48642	AY48642W05			45mL	50mL	11/10/11 10:40	equip: Venus
10	AY48643	AY48643W05			45mL	50mL	11/10/11 10:40	equip: Venus
11	AY48644	AY48644W02			45mL	50mL	11/10/11 10:40	equip: Venus
12	AY49333	AY49333W13			45mL	50mL	11/10/11 10:40	equip: Venus
13	AY49334	AY49334W51			45mL	50mL	11/10/11 10:40	equip: Venus
14	AY49334 MS	AY49334W52	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
15	AY49334 MSD	AY49334W52	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
16	AY49336	AY49336W13			45mL	50mL	11/10/11 10:40	equip: Venus
17	AY49481	AY49481W13			45mL	50mL	11/10/11 10:40	equip: Venus
18	AY49482	AY49482W13			45mL	50mL	11/10/11 10:40	equip: Venus
19	AY49559	AY49559W31			45mL	50mL	11/10/11 10:40	equip: Venus
20	AY49559 MS	AY49559W31	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
21	AY49559 MSD	AY49559W31	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
22	AY49561	AY49561W08			45mL	50mL	11/10/11 10:40	equip: Venus
23	AY49562	AY49562W08			45mL	50mL	11/10/11 10:40	equip: Venus

Solvent and Lot#
HNO3 J.T.B k19023 0095

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	NBS
Date	11-10-11
Time	13:00
Moved to	MSTACS

Technician's Initials	
Scanned By	nm
Sample Preparation	lo
Digestion	lo
Bring up to volume	nm
Modified	11/10/11 10:19:53 AM

Reviewed By: [signature] **Date:** 11-10-11

M3015

Metals Digestion Worksheet

Method Name 3015 Digestion **Prep Method** M3015 **Set** 111110A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1028408-29435
Spiked ID 2	LCSW LOT# 1028416-29433
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/10/11 10:40:00 AM
Witnessed By	KWS Date: 11/10/11 10:40:00 AM

Starting Temp:	25 C
Ending Temp:	170 C
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	11/10/11 12:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
24	AY50005	AY50005W08			45mL	50mL	11/10/11 10:40	equip: Venus

Solvent and Lot #
HNO3 J.T.B k19023 0095

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	NBS
Date	11-10-11
Time	13:00
Moved to	METALS

Technician's Initials	
Scanned By	nm
Sample Preparation	lo
Digestion	lo
Bring up to volume	nm
Modified	11/10/11 10:19:53 AM

Reviewed By: SA **Date:** 11-10-11

6020/200.8 Injection Log

Directory: K:\ICP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	11 Nov 2011	12:08	Calibration Blank		111111A	1.
2	11 Nov 2011	12:14	111111 Standard 1		111111A	1.
3	11 Nov 2011	12:20	111111 Standard 2		111111A	1.
4	11 Nov 2011	12:27	111111 Standard 3		111111A	1.
5	11 Nov 2011	12:33	111111 Standard 4		111111A	1.
6	11 Nov 2011	12:39	ICV 111111		111111A	1.
8	11 Nov 2011	12:57	ICB 111111		111111A	1.
9	11 Nov 2011	13:03	CCV 111111		111111A	1.
10	11 Nov 2011	13:09	CCB 111111		111111A	1.
11	11 Nov 2011	13:15	ICSA 111111		111111A	1.
12	11 Nov 2011	13:21	ICSAB 111111		111111A	1.
13	11 Nov 2011	13:33	CCV 111111		111111A	1.
14	11 Nov 2011	13:46	CCB 111111		111111A	1.
15	11 Nov 2011	14:16	111110A-3015-BLK		111111A	1.
16	11 Nov 2011	14:22	111110A-3015-LCS		111111A	1.
23	11 Nov 2011	15:05	CCV 111111		111111A	1.
24	11 Nov 2011	15:17	CCB 111111		111111A	1.
49	11 Nov 2011	18:04	CCV 111111		111111A	1.
50	11 Nov 2011	18:16	CCB 111111		111111A	1.
55	11 Nov 2011	18:46	AY50005W08		111111A	1.
57	11 Nov 2011	18:59	CCV 111111		111111A	1.
58	11 Nov 2011	19:11	CCB 111111		111111A	1.