Laboratory Report

Environet

LTM Red Hill Bulk Fuel Storage Facility

ARF 64484

Samples collected: April 21, 2011

APPL, Inc.

Data Validation Package
for
LTM Red Hill Bulk Fuel Storage Facility
ARF 64484

TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

CASE NARRATIVE

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

Case Narrative

ARF: 64484

Project: LTM Red Hill Bulk Fuel Storage Facility

State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

DoD-ELAP Certificate number: ADE-1410

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.

Sample Receipt Information:

The sample group was received on April 23, 2011, at 3.0°C and 3.0°C. The sample group was assigned Analytical Request Form (ARF) number 64484. The sample numbers and requested analyses were compared to the chain of custody. There was a container count discrepancy which was reported to the client. No other exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES029	AY36384	WATER	04/21/11	04/23/11
ES028	AY36385	WATER	04/21/11	04/23/11
ES030	AY36386	WATER	04/21/11	04/23/11
ES031	AY36387	WATER	04/21/11	04/23/11
ES032	AY36388	WATER	04/21/11	04/23/11

All samples were screened for J-value responses between the LOQ and DL.

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

The water samples were extracted according to EPA method 3510C. The sample was 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.

Sample ES029 was designated by the client for MS/MSD analysis. All recoveries were acceptable.

Surrogates:

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

Summary:

No problem was encountered

EPA Method 8270D SIM

Polynuclear Aromatic Hydrocarbons

Sample Preparation:

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

Sample Analysis Information:

The samples were 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.

Sample ES029 was designated by the client for MS/MSD analysis. For the MS/MSD, Fluoranthene recovered below the 55% lower control limit at 51.2% and 54.3% and Benzo(a)anthracene below the 55% lower control limit at 54.1% in the MS. All other recoveries met acceptance criteria.

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 other 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. The samples were received in unpreserved vials; the samples were analyzed within seven days of collection.

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 blank.

Spikes:

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

Sample ES029 was designated by the client for MS/MSD analysis. For the MS/MSD, 1,1,2,2-Tetrachloroethane recovered below the 65% lower control limit at 32.9% and 24.6%, Acetone above the 140% upper control limit at 166% in the MSD, and Trichloroethene above the 125% upper control limit at 160% and 164%. All other spike recoveries were acceptable.

Surrogates

Surrogate recoveries are summarized on the 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

Metals

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 ES029 was designated by the client for MS/MSD analysis. All acceptance criteria were met for the MS/MSD.

Sample ES020 (ARF 64475) was selected by the laboratory for PDS, serial dilution. The PDS and serial dilution are reported in ARF 64475.

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. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

5/31/11

Leonard Fong, Ph.D, Laboratory Director / Date

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 64484

Client: **Environet, Inc.**
Address: **650 Iwilei Rd, #204**
Honolulu, HI 96817
Attn: **Vilma Dupra**
Phone: **808-833-2225** Fax: **808-833-2231**
Job: **LTM Red Hill Bulk Fuel Storage Facility**
PO #: **1022-015**
Chain of Custody (Y/N): **Y** # **33669**
RAD Screen (Y/N): **Y** pH (Y/N): **Y**
Turn Around Type: **2 WEEKS**

Received by: **TBV**
Date Received: **04/23/11** Time: **11:25**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y**
Chest Temp(s): **3.0,3.0°C**
Color: **VOA,F-PINK,P-ORGRN**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Cynthia Clark**
QC Report Type: **DVP4/ADRDOD/HI** VF
Due Date: **05/09/11**

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, EDD: Exce & ADR VF
DoD Forms, J flag to DL, U flag at LOD VF
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
The collection time was taken from sample container for sample ES029.

Sample Distribution:
GC: 3-$SIMHC12W, 3-$TPETD2
Extractions: 3-_SEP004S, 3-_SEP011
VOA: 5-$86RHBF
Metals: 3-$602D(Pb)
Other: 3-_M3015

Charges:

Invoice To:
same

	Client ID		APPL ID	Sampled		Analyses Requested
1.	ES029	MS/MSD	AY36384W	04/21/11	12:30	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- non-preserved VOA
2.	ES028		AY36385W	04/21/11	10:40	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- non-preserved VOA
3.	ES030	ltd.vol.	AY36386W	04/21/11	08:00	$86RHBF
4.	ES031		AY36387W	04/21/11	08:30	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- non-preserved VOA
5.	ES032	ltd.vol.	AY36388W	04/21/11	08:00	$86RHBF

Initials _____ Date _____

APPL Sample Receipt Form

ARF# **64484**

Sample	Container Type	Count	pH
AY36384	[6] PL 500mL - HNO3	3	1.7
	[13] VOAs - HCL	11	NA
	[17] Amber Liter	9	NA
AY36385	[6] PL 500mL - HNO3	1	1.7
	[13] VOAs - HCL	4	NA
	[17] Amber Liter	3	NA
AY36386	[13] VOAs - HCL	1	NA
AY36387	[6] PL 500mL - HNO3	1	1.7
	[13] VOAs - HCL	4	NA
	[17] Amber Liter	3	NA
AY36388	[13] VOAs - HCL	1	NA

Sample	Container Type	Count	pH

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611

Phone: (559) 275-2175
Fax: (559) 275-4422

CHAIN OF CUSTODY RECORD

C.O.C. 33669

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: Environet Inc. Phone: (808)833-2225	Company Name: Environet Inc Phone: 808 833-2225
Address: 650 Iwilei Rd Suite 204 Honolulu, Hi 96817 Fax: (808) 833-2231	Address: 650 Iwilei Rd Suite 204 Honolulu, Hi 96817 Fax: 808 833-2231
Attn: Vilma Dupra	Attn: Cecilia Adams

Project Name/Number	Sampler (Print)
RHSF LTMM/1022-015	Stacey Fineran
Purchase Order Number	Sampler (Signature)
	Stacy Ft.

Sample Identification	Location	Date Collected	Time Collected	No. of Containers	Matrix: Aq	Sed.	Soil	Analysis Requested/Method Number: TPH-G	VOCs	TPH-DRO	PAHs	Dissolved Pb
ESO 29 MS/MSD	RHSF/Red Hill	4/21		30	X			X	X	X	X	X
ESO 28	Red Hill	4/21	1040	8	X			X	X	X	X	X
ESO 30	Red Hill	4/21	0800	1	X				X			
ESO 31	Red Hill	4/21	0830	8	X			X	X	X	X	X
ESO 32	Red Hill	4/21	0800	1	X				X			

Date Shipped:
Carrier: Fed Ex
Waybill No.:
Comments:

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Shuttle Temperature:

Turnaround Requested: MUST CHECK ONE
☒ Standard (2-3 week) ☐ One week ☐ 24-48 hour

Sample Disposal:
☐ Return to client ☐ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
Stacey Fineran	4/22/11	0936	Fed Ex				
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					4/22/11 4/23/11	11:25	

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler

See reverse side for Container Preservative and Sampling Information

(a)

COOLER RECEIPT FORM

4/23/11 (W)

1) Project: LTM Red Hill Bulk Fuel Storage Facility Date Received: 4/22/11

2) Coolers: Number of Coolers: 2

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

4) (YES) NO Were custody seals on outside of cooler? How many? 2 Date on seal? 4/22/11

5) Name on seal? S F

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) 8748 0067 1391 master track # 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.): bubble wrap, wet ice, zip loc bag.

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) 3.1°C 2) 3.0°C 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: LO 4/22/11

Smaller than a pea: AY36385 wol, AY31387 wol, AY36386 wol, AY36388 wol

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 > 10?

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?

Lab notified if pH was not adequate:

Deficiencies: Container Count for Sample ES029 was listed as 31 on COC; we received 23 containers for this sample.

Signature of personnel receiving samples: Second reviewer:

Signature of project manager notified: Renée Date and Time of notification: 4-26-11

Name of client notified: Date and Time of notification:

Information given to client:

by whom (Initials):

CUSTODY SEAL
APPL, Inc. (559) 275-2175
Date 4/22/11
Initials SF

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: **110428W-36384 - 155024**
Batch ID: #TPETD-110428A

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	04/28/11	05/11/11
BLANK	SURROGATE: OCTACOSANE (S)	78.1	28-142			%	04/28/11	05/11/11
BLANK	SURROGATE: ORTHO-TERPHEN	59.6	57-132			%	04/28/11	05/11/11

Quant Method: TPHODRO.M
Run #: 509116
Instrument: Apollo
Sequence: 110509
Initials: TRL

GC SC-Blank-REG MDLs
Printed: 05/12/11 1:06:56 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64484

Case No: 64484 Date Analyzed: 05/11/11

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)	SURROGATE: ORTHO-TERPHENYL (S)
110428A-BLK	Blank	78.1	59.6
110428A-LCS	Lab Control Spike	68.7	59.1
AY36384-MS	Matrix Spike	69.3	76.7
AY36384-MSD	Matrix SpikeD	75.3	70.7
AY36384	ES029	75.3	65.2
AY36385	ES028	67.6	60.2
AY36387	ES031	65.4	58.4

Comments: Batch: #TPETD-110428A

Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **110428W-36384 LCS - 155024**
Batch ID: #TPETD-110428A

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	1340	67.0	61-143
SURROGATE: OCTACOSANE (S)	150	103	68.7	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	88.6	59.1	57-132

Comments:

Primary	SPK
Quant Method :	TPHODRO.M
Extraction Date :	04/28/11
Analysis Date :	05/11/11
Instrument :	Apollo
Run :	509117
Initials :	TRL

Printed: 05/12/11 1:06:58 PM

APPL Standard LCS

Matrix Spike Recoveries

TPH Diesel Water

APPL ID: **110428W-36384 MS - 155024**
Batch ID: #TPETD-110428A
Sample ID: AY36384
Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL FUEL	2000	ND	1580	1570	79.0	78.5	61-143	0.63	30
SURROGATE: OCTACOSANE (S)	150	NA	104	113	69.3	75.3	28-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	NA	115	106	76.7	70.7	57-132		

Comments:

Primary	SPK	DUP
Quant Method :	TPHODRO.M	TPHODRO.M
Extraction Date :	04/28/11	04/28/11
Analysis Date :	05/11/11	05/11/11
Instrument :	Apollo	Apollo
Run :	509142	509143
Initials :	TRL	

Printed: 05/12/11 1:07:11 PM
APPL MSD SCII

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 64484

Case No: 64484 Date Analyzed: 05/11/11

Matrix: WATER Instrument: Apollo

Blank ID: 110428A-BLK Time Analyzed: 1226

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110428A-BLK	Blank	509116	05/11/11 1226
110428A-LCS	Lab Control Spike	509117	05/11/11 1250
110428A-MS	Matrix Spike	509142	05/11/11 2316
110428A-MSD	Matrix SpikeD	509143	05/11/11 2341
AY36384	ES029	509144	05/12/11 0006
AY36385	ES028	509145	05/12/11 0031
AY36387	ES031	509146	05/12/11 0055

Comments: Batch: #TPETD-110428A

EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data

TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES029

APPL ID: AY36384

Sample Collection Date: 04/21/11

QCG: #TPETD-110428A-155024

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	04/28/11	05/12/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	75.3	28-142			%	04/28/11	05/12/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	65.2	57-132			%	04/28/11	05/12/11

Quant Method:	DROWB422.M
Run #:	509144
Instrument:	Apollo
Sequence:	110509
Dilution Factor:	1
Initials:	TRL

Printed: 05/12/11 1:07:18 PM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

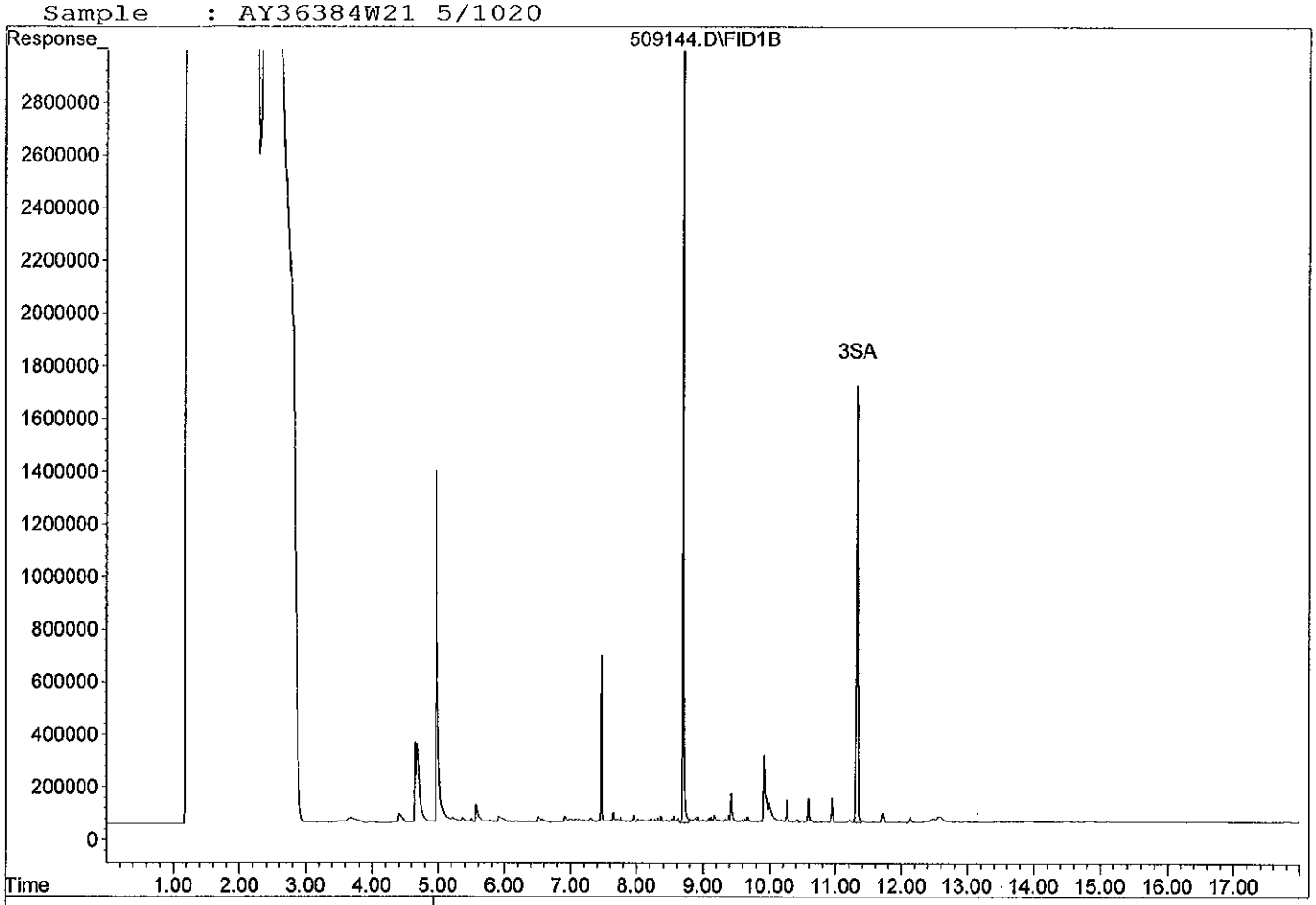
Data File : G:\APOLLO\DATA\110509\509144.D Vial: 44
Acq On : 5-12-11 0:06:20 Operator: LAC
Sample : AY36384W21 5/1020 Inst : Apollo
Misc : Water Multiplr: 4.90
IntFile : events.e
Quant Time: May 12 9:43 2011 Quant Results File: TPHODRO.RES

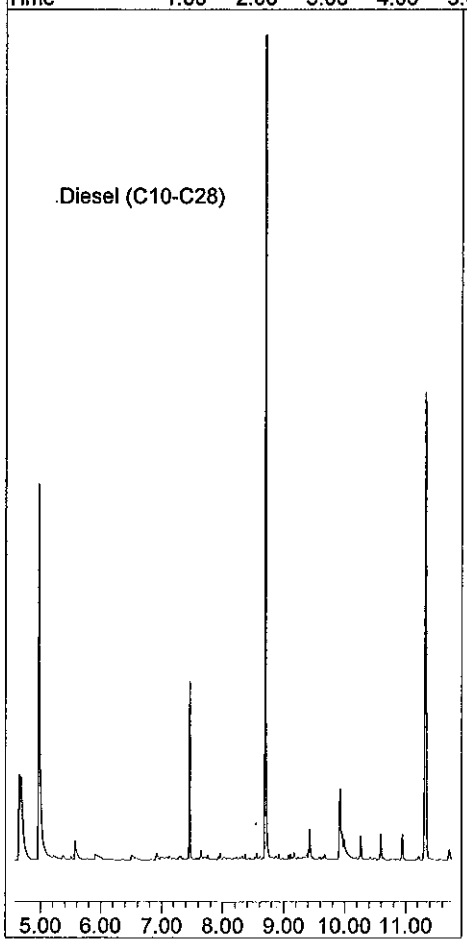
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	33810458	95.898 ppb
Surrogate Spike 147.059		Recovery =	65.21%
3) SA Octacosane(S)	11.32	25938909	110.737 ppb
Surrogate Spike 147.059		Recovery =	75.30%
Target Compounds			

Data File: G:\APOLLO\DATA\110509\509144.D
Sample : AY36384W21 5/1020





TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES028

APPL ID: AY36385

Sample Collection Date: 04/21/11

QCG: #TPETD-110428A-155024

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	04/28/11	05/12/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	67.6	28-142			%	04/28/11	05/12/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	60.2	57-132			%	04/28/11	05/12/11

Quant Method:	DROWB422.M
Run #:	509145
Instrument:	Apollo
Sequence:	110509
Dilution Factor:	1
Initials:	TRL

Printed: 05/12/11 1:07:18 PM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

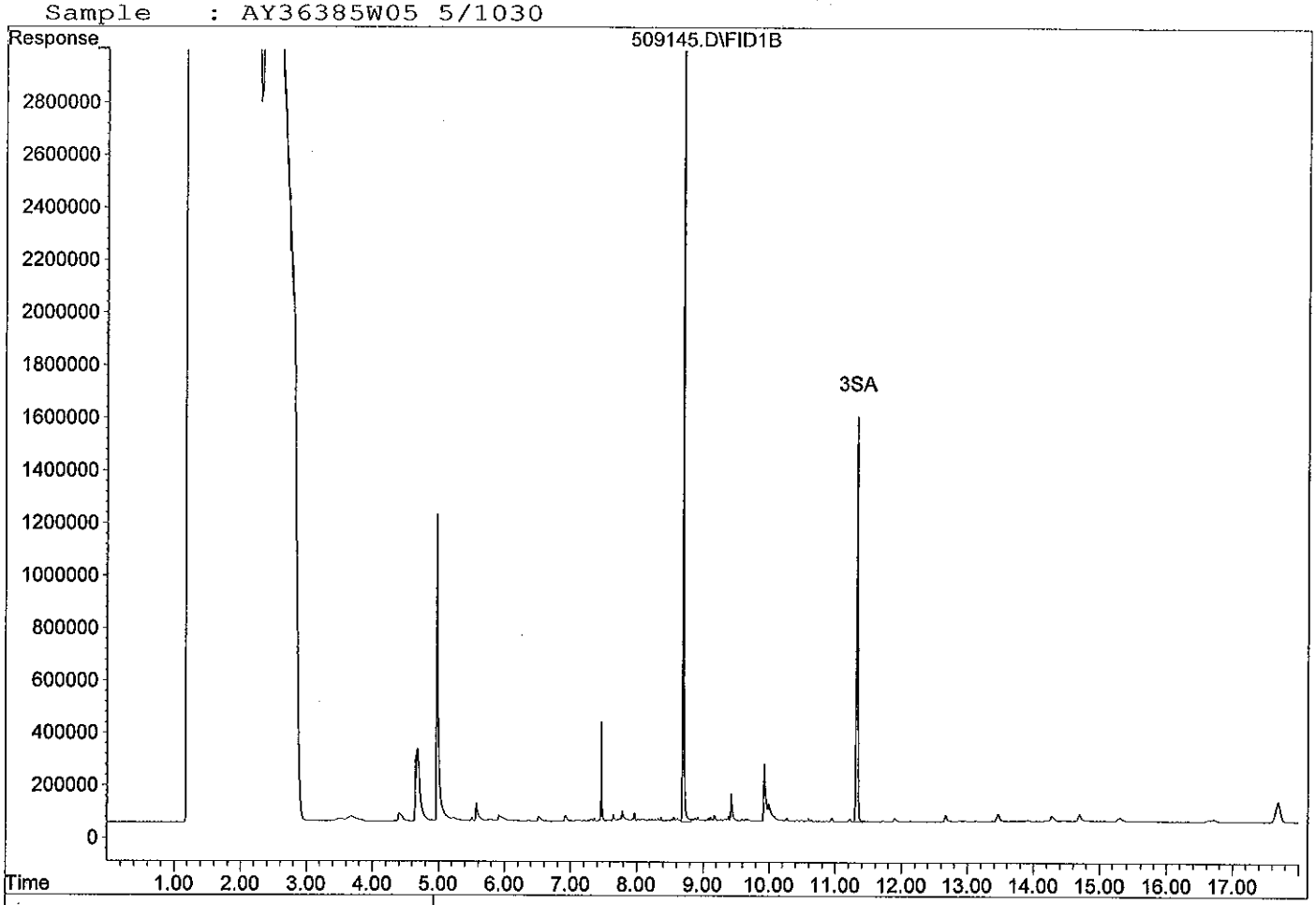
Data File : G:\APOLLO\DATA\110509\509145.D Vial: 45
Acq On : 5-12-11 0:31:07 Operator: LAC
Sample : AY36385W05 5/1030 Inst : Apollo
Misc : Water Multiplr: 4.85
IntFile : events.e
Quant Time: May 12 9:43 2011 Quant Results File: TPHODRO.RES

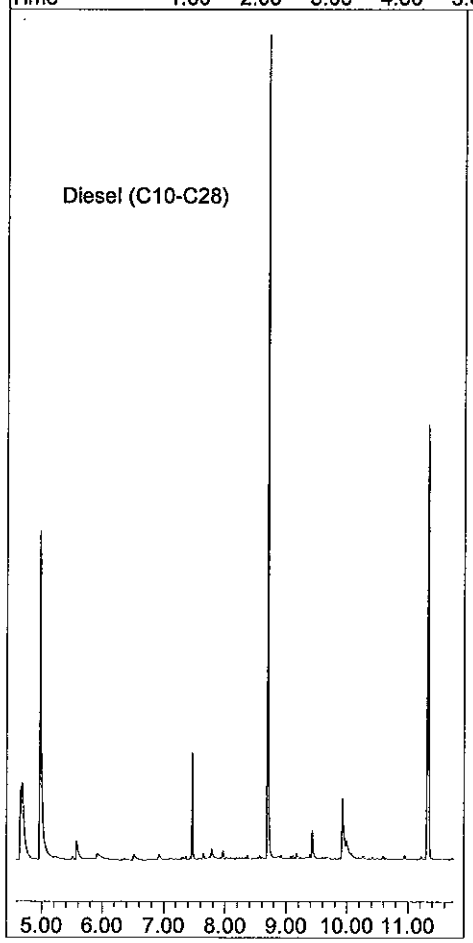
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	31202299	87.641 ppb
Surrogate Spike 145.631		Recovery =	60.18%
3) SA Octacosane(S)	11.33	23293827	98.479 ppb
Surrogate Spike 145.631		Recovery =	67.62%
Target Compounds			

Data File: G:\APOLLO\DATA\110509\509145.D
Sample : AY36385W05 5/1030





TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES031

APPL ID: AY36387

Sample Collection Date: 04/21/11

QCG: #TPETD-110428A-155024

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	04/28/11	05/12/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	65.4	28-142			%	04/28/11	05/12/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	58.4	57-132			%	04/28/11	05/12/11

Quant Method:	DROWB422.M
Run #:	509146
Instrument:	Apollo
Sequence:	110509
Dilution Factor:	1
Initials:	TRL

Printed: 05/12/11 1:07:18 PM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

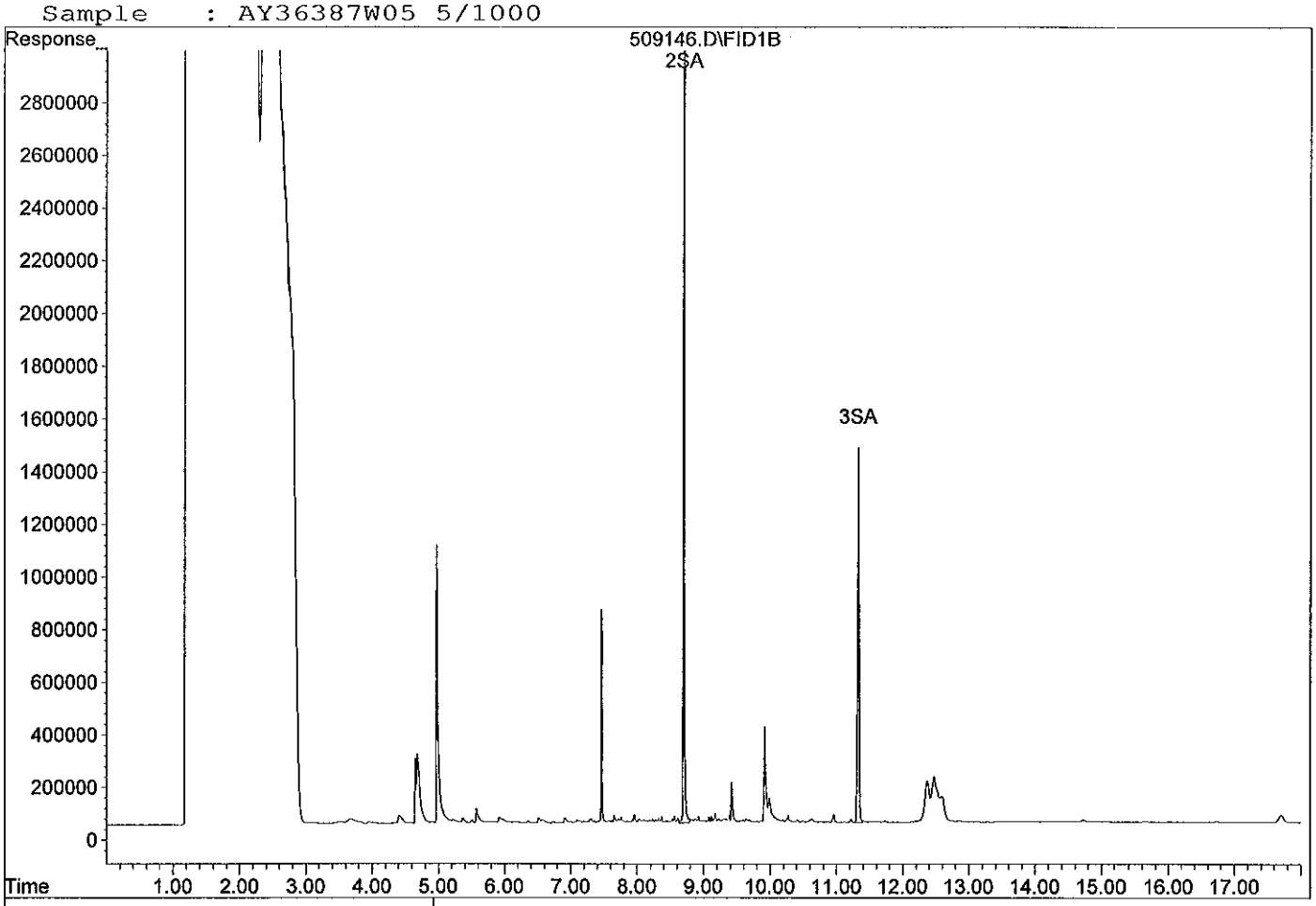
Data File : G:\APOLLO\DATA\110509\509146.D Vial: 46
Acq On : 5-12-11 0:55:54 Operator: LAC
Sample : AY36387W05 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: May 12 9:43 2011 Quant Results File: TPHODRO.RES

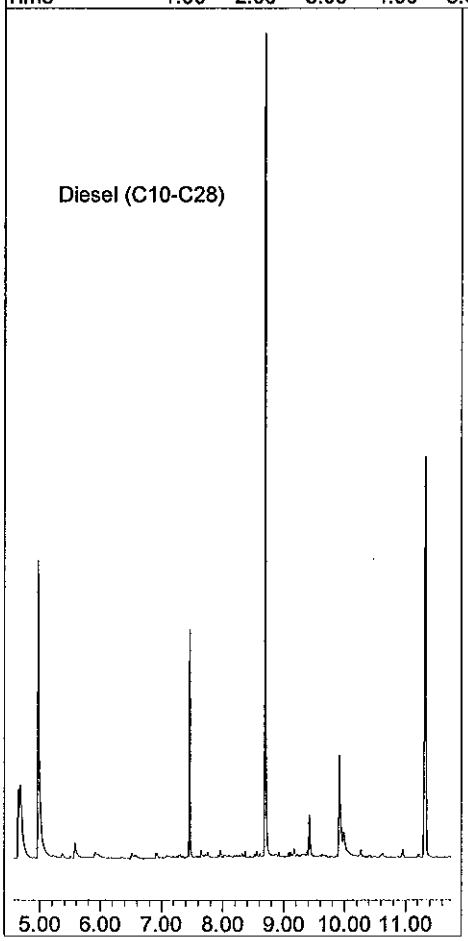
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	30276870	87.593 ppb
Surrogate Spike 150.000		Recovery =	58.40%
3) SA Octacosane(S)	11.32	22510150	98.021 ppb
Surrogate Spike 150.000		Recovery =	65.35%
Target Compounds			

Data File: G:\APOLLO\DATA\110509\509146.D
Sample : AY36387W05 5/1000





EPA 8015 Modified
Total Petroleum Hydrocarbons

Calibration Data

TPH Extractables
TPHODRO

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 64484
Case No: Initial Cal. Date: 04/22/11
Matrix: Instrument: Apollo Initials: LAC

			422004.D	422005.D	422006.D	422007.D	422008.D	422009.D					
		Compound	1	2	3	4	5	6		Avg	%RSD		
1	HATM	Diesel (C10-C28)	588896	605651	564267	563101	566081	559844		574640	3.2	HATM	
2	SA	Ortho-Terphenyl(S)	790967	1100428	805689	864346	777656	845708		864132	14	SA	
3	SA	Octacosane(S)	558338	571843	577087	583268	580825	573339		574116	1.5	SA	
4													
5													
6													
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35													

0.5336295

Quantitation Report (Not Reviewed)

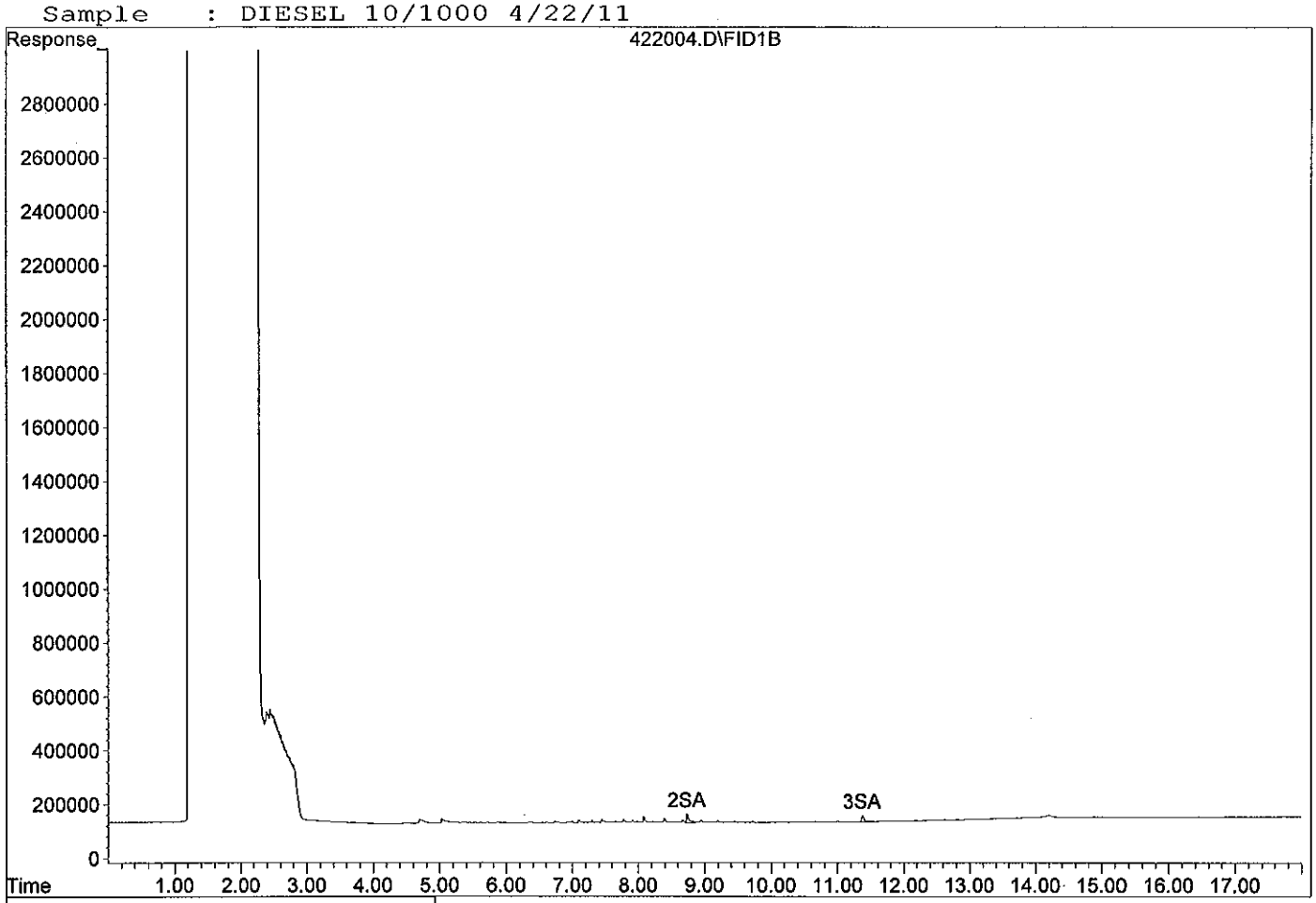
Data File : G:\APOLLO\DATA\110422\422004.D Vial: 4
Acq On : 4-22-11 11:20:08 Operator: LAC
Sample : DIESEL 10/1000 4/22/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:53 2011 Quant Results File: TPHODRO.RES

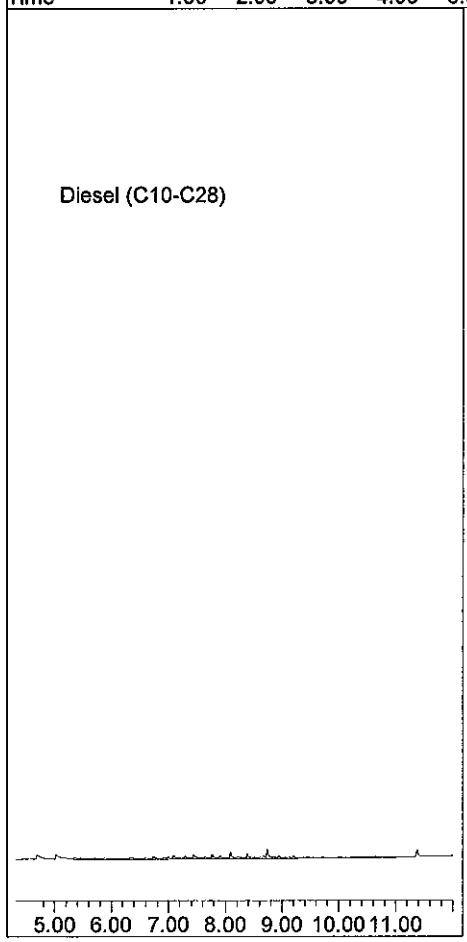
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.74	790967	0.458 ppb
Surrogate Spike 30.000	Recovery	=	1.53%
3) SA Octacosane(S)	11.38	558338	0.486 ppb
Surrogate Spike 30.000	Recovery	=	1.62%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	11777927	10.248 ppb

Data File: G:\APOLLO\DATA\110422\422004.D
Sample : DIESEL 10/1000 4/22/11





Quantitation Report (Not Reviewed)

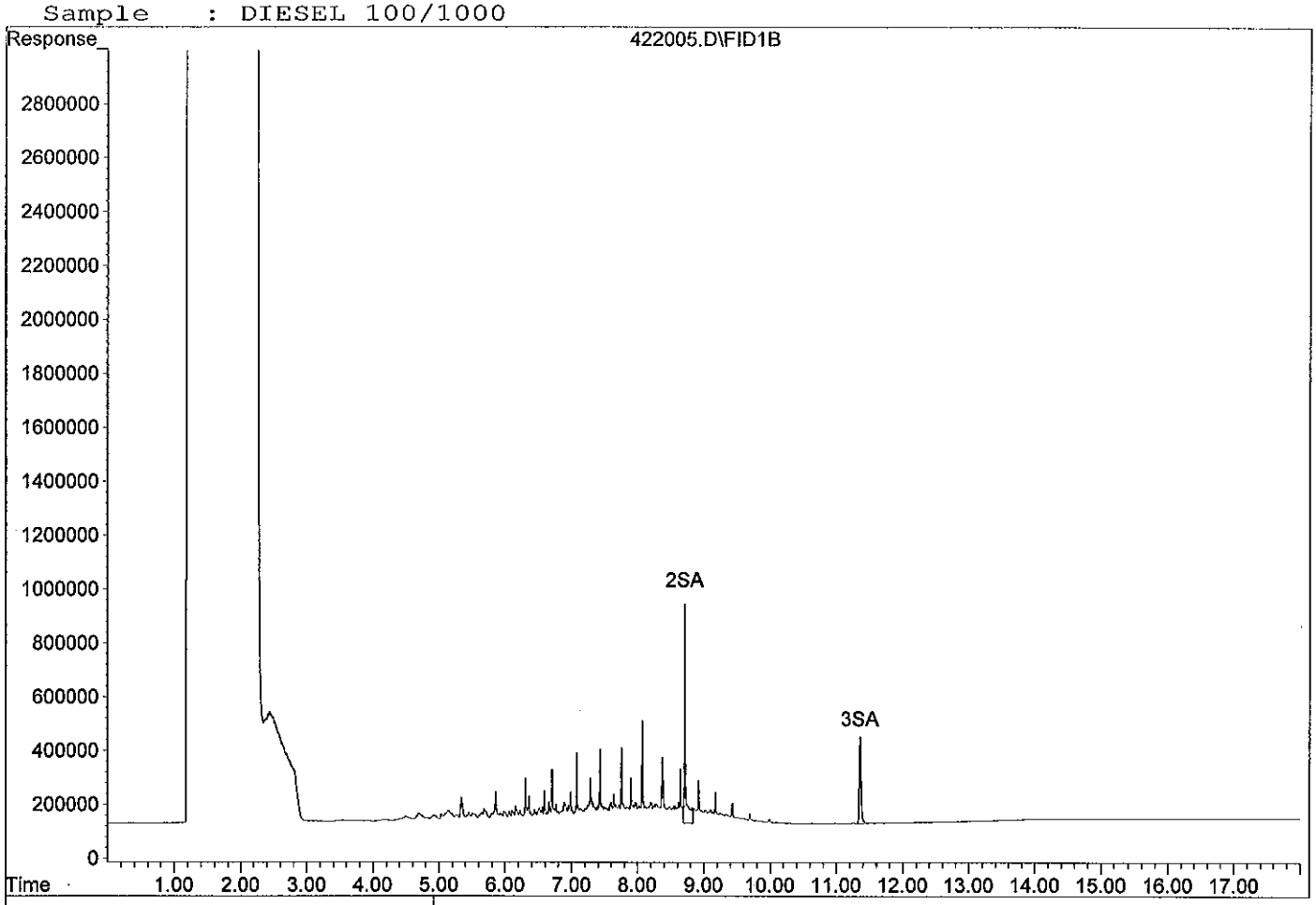
Data File : G:\APOLLO\DATA\110422\422005.D Vial: 5
Acq On : 4-22-11 11:45:11 Operator: LAC
Sample : DIESEL 100/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:54 2011 Quant Results File: TPHODRO.RES

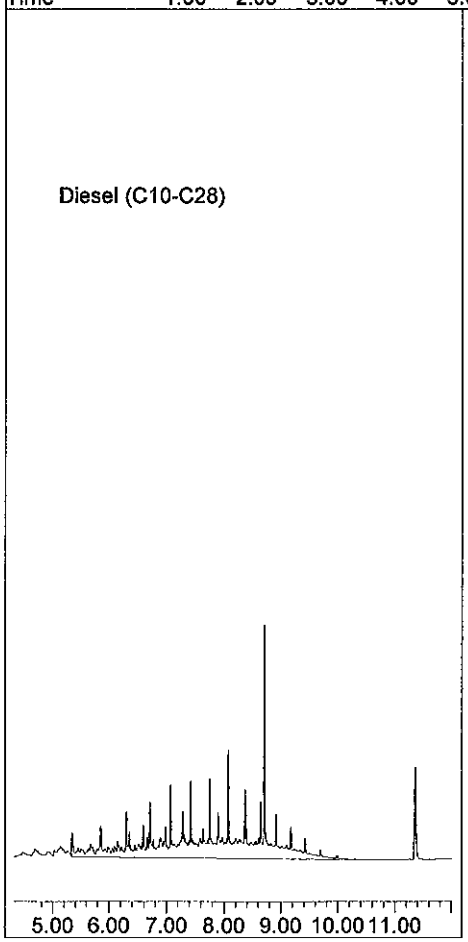
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	11004276	6.367 ppb
Surrogate Spike 30.000	Recovery =		21.22%
3) SA Octacosane(S)	11.36	5718428	4.980 ppb
Surrogate Spike 30.000	Recovery =		16.60%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	121130154	105.397 ppb

Data File: G:\APOLLO\DATA\110422\422005.D
Sample : DIESEL 100/1000





Quantitation Report (Not Reviewed)

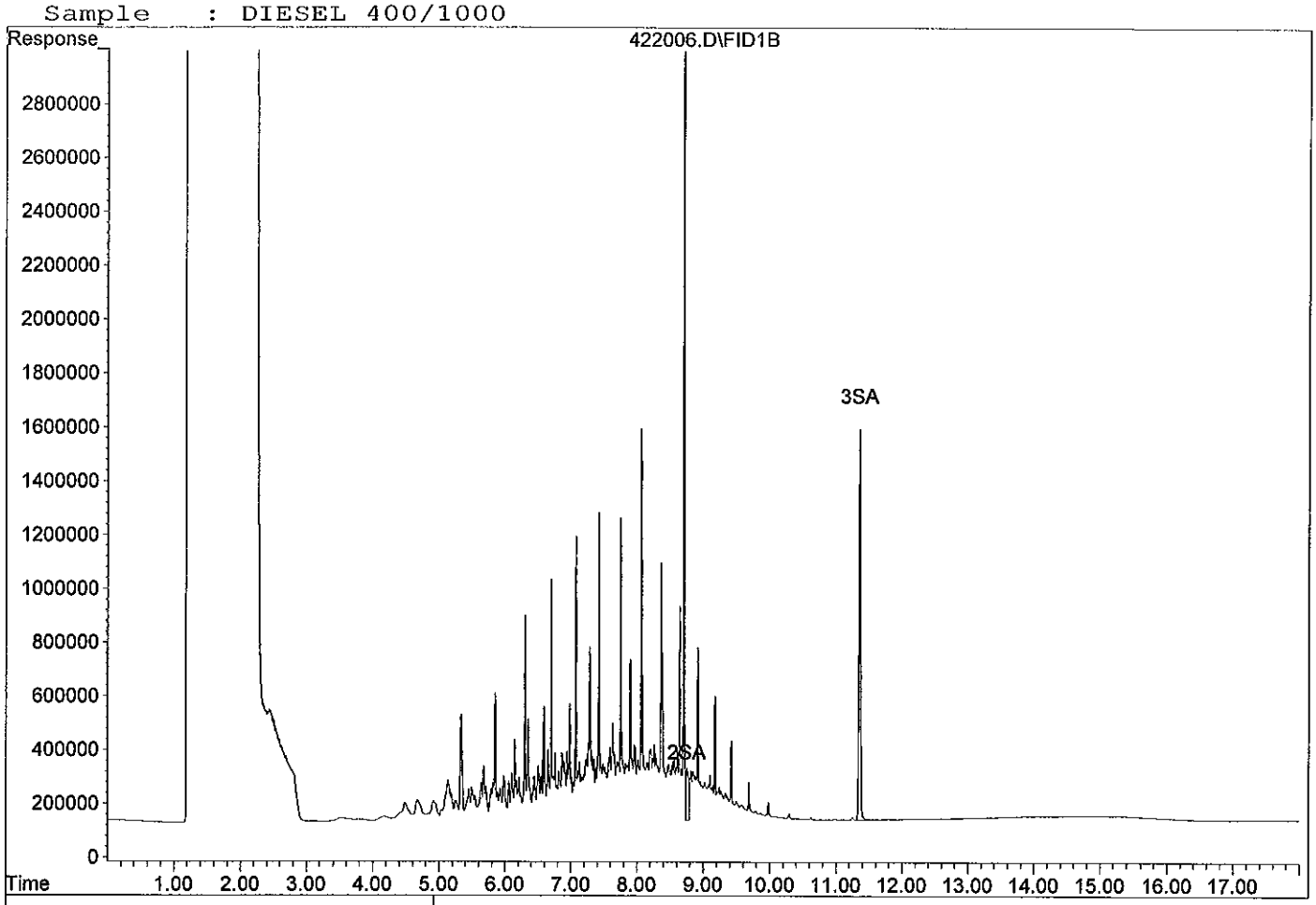
Data File : G:\APOLLO\DATA\110422\422006.D Vial: 6
Acq On : 4-22-11 12:10:19 Operator: LAC
Sample : DIESEL 400/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:54 2011 Quant Results File: TPHODRO.RES

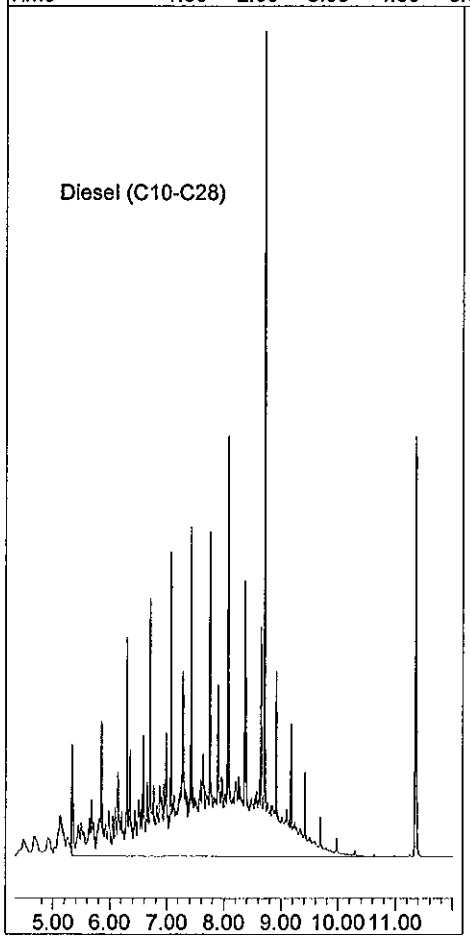
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.75	4956144	2.868 ppb
Surrogate Spike 30.000	Recovery =		9.56%
3) SA Octacosane(S)	11.36	23083461	20.103 ppb
Surrogate Spike 30.000	Recovery =		67.01%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	478684620	416.508 ppb

Data File: G:\APOLLO\DATA\110422\422006.D
Sample : DIESEL 400/1000





Quantitation Report (Not Reviewed)

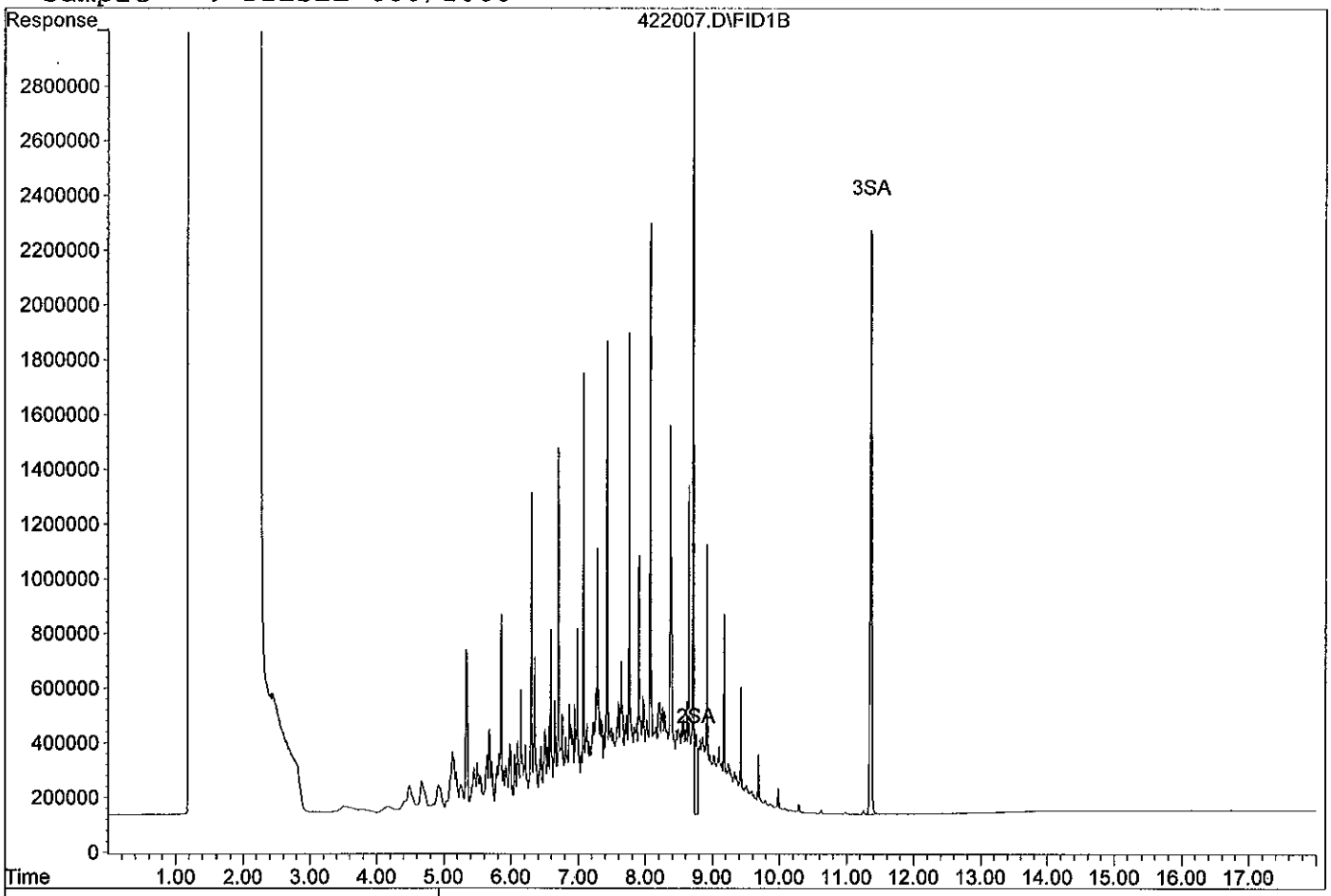
Data File : G:\APOLLO\DATA\110422\422007.D Vial: 7
Acq On : 4-22-11 12:35:32 Operator: LAC
Sample : DIESEL 600/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:54 2011 Quant Results File: TPHODRO.RES

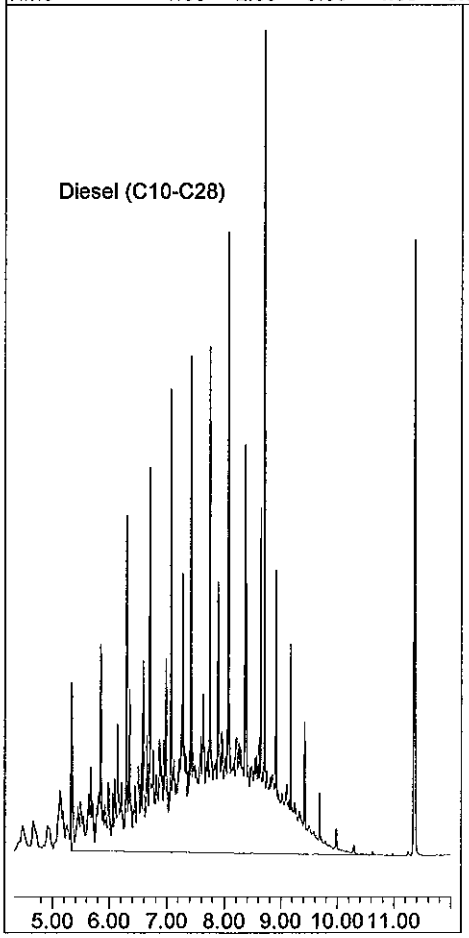
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) SA Ortho-Terphenyl(S)	8.76	7984436	4.620	ppb
Surrogate Spike 30.000	Recovery =		15.40%	
3) SA Octacosane(S)	11.36	34996058	30.478	ppb
Surrogate Spike 30.000	Recovery =		101.59%	
Target Compounds				
1) HATM Diesel (C10-C28)	8.17	719597776	626.129	ppb

Data File: G:\APOLLO\DATA\110422\422007.D
Sample : DIESEL 600/1000





Quantitation Report (Not Reviewed)

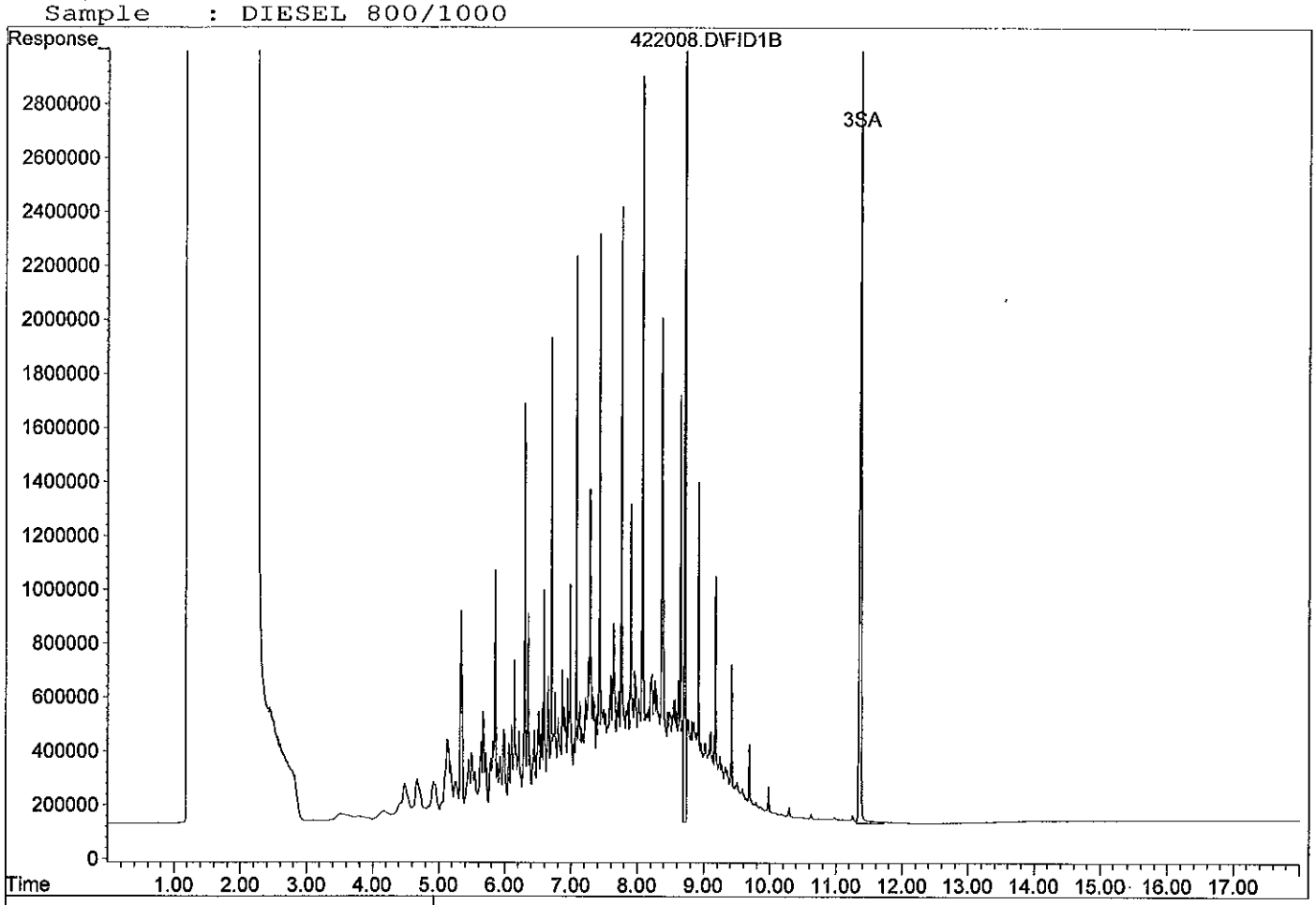
Data File : G:\APOLLO\DATA\110422\422008.D Vial: 8
Acq On : 4-22-11 13:00:52 Operator: LAC
Sample : DIESEL 800/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:54 2011 Quant Results File: TPHODRO.RES

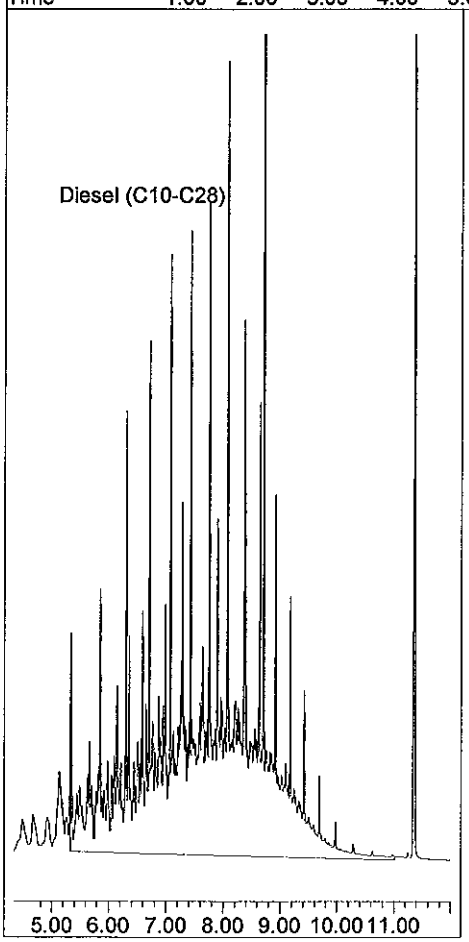
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	62212497	35.997 ppb
Surrogate Spike 30.000	Recovery =		119.99%
3) SA Octacosane(S)	11.37	46465994	40.467 ppb
Surrogate Spike 30.000	Recovery =		134.89%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	905729109	788.084 ppb

Data File: G:\APOLLO\DATA\110422\422008.D
Sample : DIESEL 800/1000





Quantitation Report (Not Reviewed)

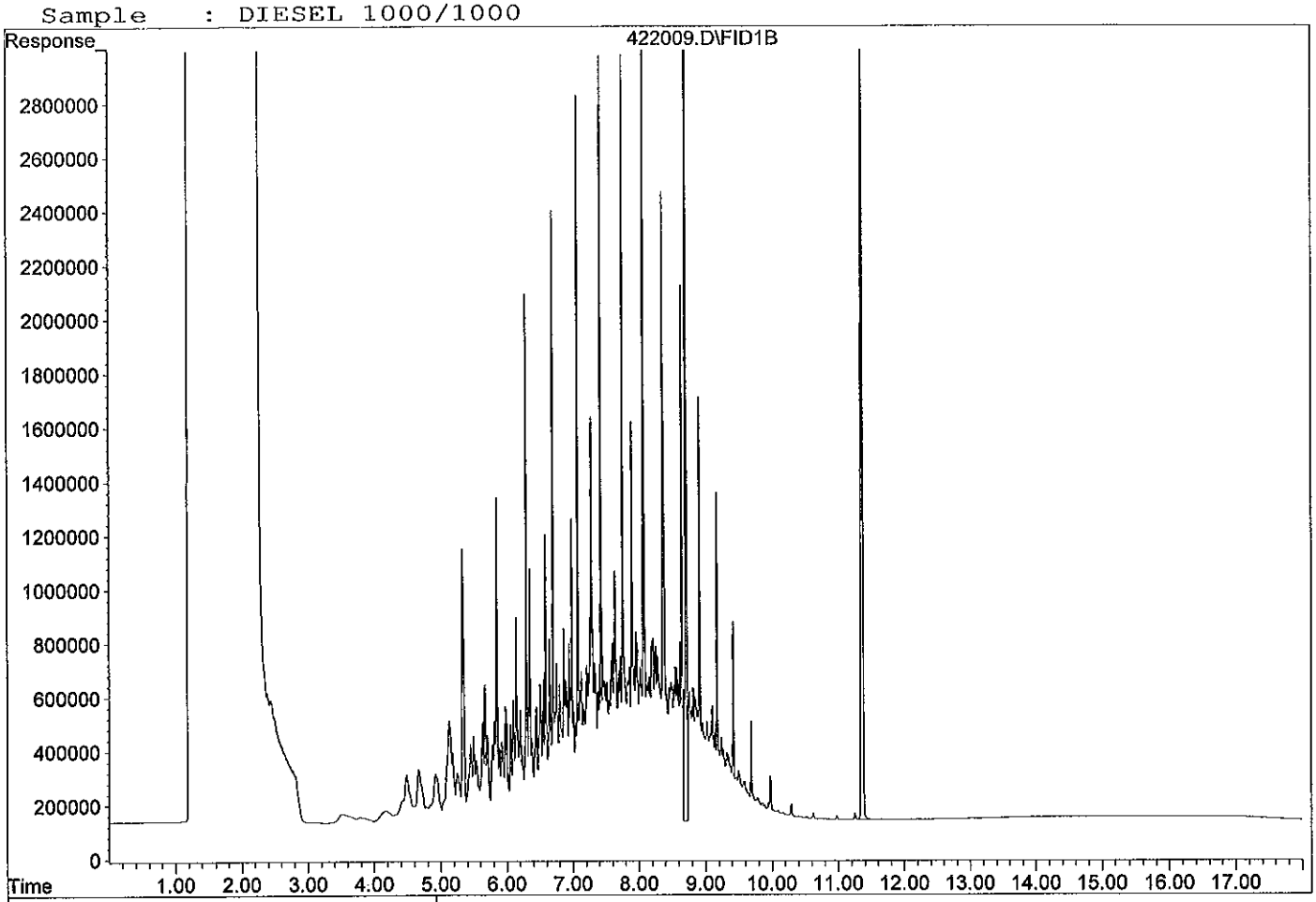
Data File : G:\APOLLO\DATA\110422\422009.D Vial: 9
Acq On : 4-22-11 13:26:13 Operator: LAC
Sample : DIESEL 1000/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:55 2011 Quant Results File: TPHODRO.RES

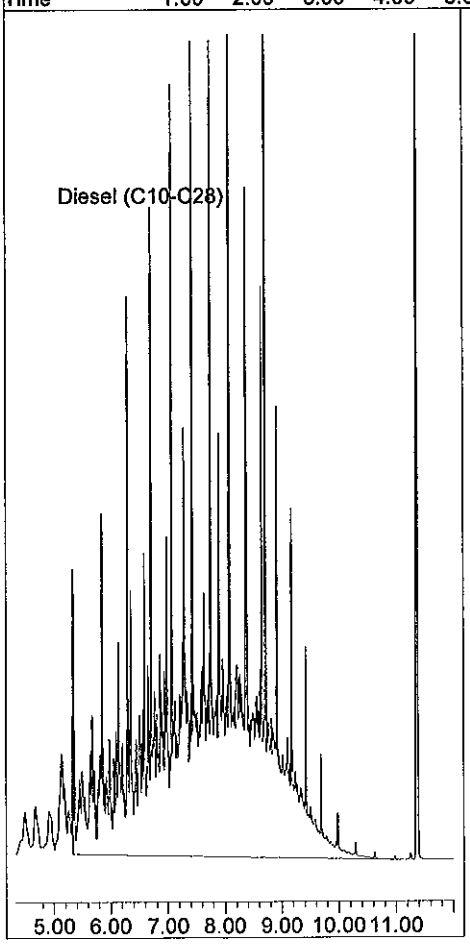
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) SA Ortho-Terphenyl(S)	8.72	84570832	48.934	ppb
Surrogate Spike 30.000	Recovery =		163.11%	
3) SA Octacosane(S)	11.37	57333895	49.932	ppb
Surrogate Spike 30.000	Recovery =		166.44%	
Target Compounds				
1) HATM Diesel (C10-C28)	8.17	1119688113	974.252	ppb

Data File: G:\APOLLO\DATA\110422\422009.D
Sample : DIESEL 1000/1000





TPH Extractables
TPHODRO

Form 7

Second Source Calibration

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

SDG No: 64484
Date Analyzed: 04/22/11
Instrument: Apollo
Initial Cal. Date: 04/22/11
Data File: 422016.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	574640	568850	1.0	HATM	
2							
3							
4							
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40							
		Average			1.0		

Quantitation Report (Not Reviewed)

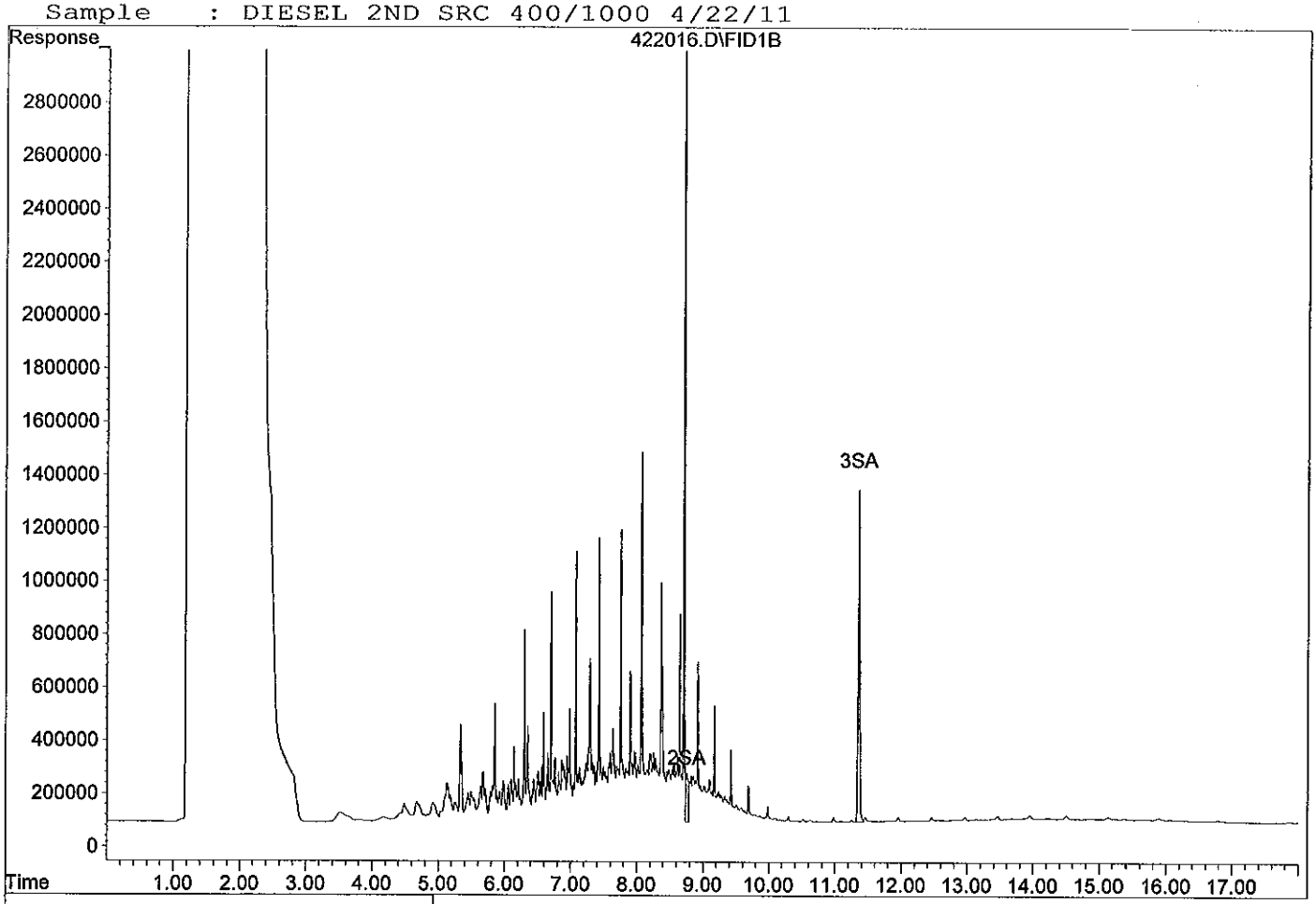
Data File : G:\APOLLO\DATA\110422\422016.D Vial: 16
Acq On : 4-22-11 16:19:58 Operator: LAC
Sample : DIESEL 2ND SRC 400/1000 4/22/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:55 2011 Quant Results File: TPHODRO.RES

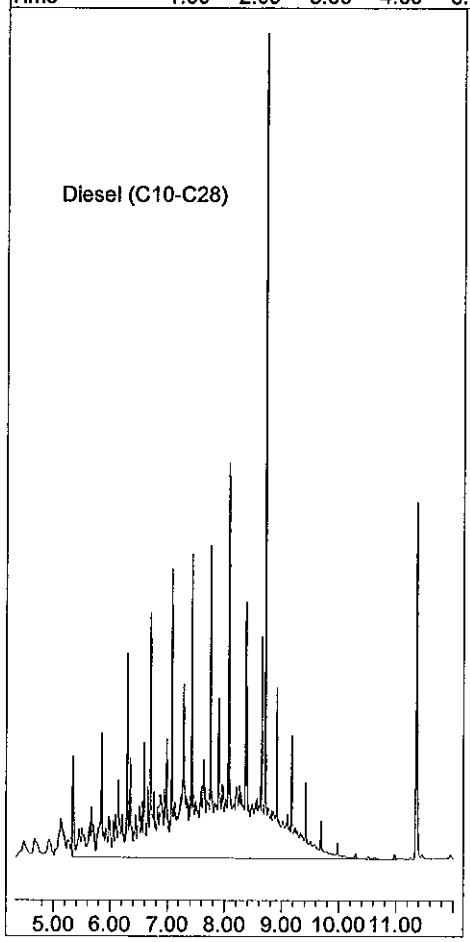
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.76	4851429	2.807 ppb
Surrogate Spike 30.000	Recovery =		9.36%
3) SA Octacosane(S)	11.36	20171039	17.567 ppb
Surrogate Spike 30.000	Recovery =		58.56%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	455080132	395.970 ppb

Data File: G:\APOLLO\DATA\110422\422016.D
Sample : DIESEL 2ND SRC 400/1000 4/22/11





Form 7

Continuing Calibration

TPHODRO

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

SDG No:
Date Analyzed: 05/11/11
Instrument: Apollo
Initial Cal. Date: 05/09/11
Data File: 509114.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	574640	537259	6.5	HATM	
2							
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40							
		Average			6.5		

Quantitation Report (Not Reviewed)

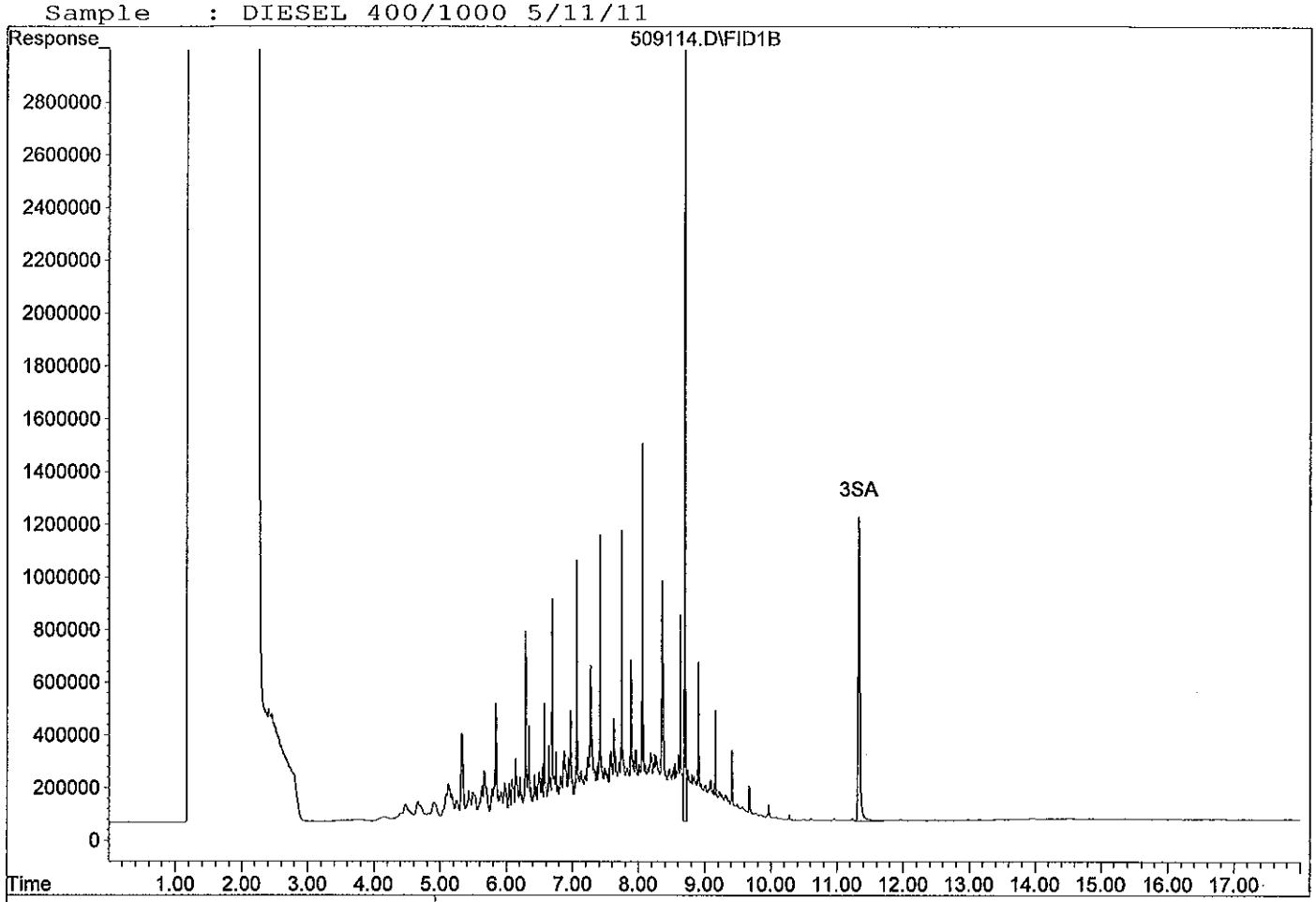
Data File : G:\APOLLO\DATA\110509\509114.D Vial: 14
Acq On : 5-11-11 11:36:40 Operator: LAC
Sample : DIESEL 400/1000 5/11/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: May 12 9:35 2011 Quant Results File: TPHODRO.RES

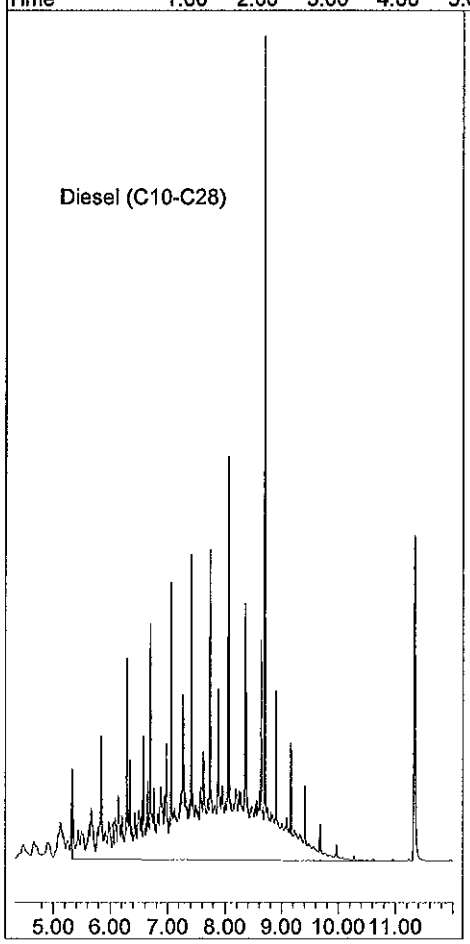
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	30497667	17.646 ppb
Surrogate Spike 30.000	Recovery =		58.82%
3) SA Octacosane(S)	11.33	20473735	17.831 ppb
Surrogate Spike 30.000	Recovery =		59.44%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	429807167	373.980 ppb

Data File: G:\APOLLO\DATA\110509\509114.D
Sample : DIESEL 400/1000 5/11/11





Form 7

Continuing Calibration

TPHODRO

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

SDG No:
Date Analyzed: 05/11/11
Instrument: Apollo
Initial Cal. Date: 05/09/11
Data File: 509135.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	574640	550162	4.3	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.3		

Quantitation Report (Not Reviewed)

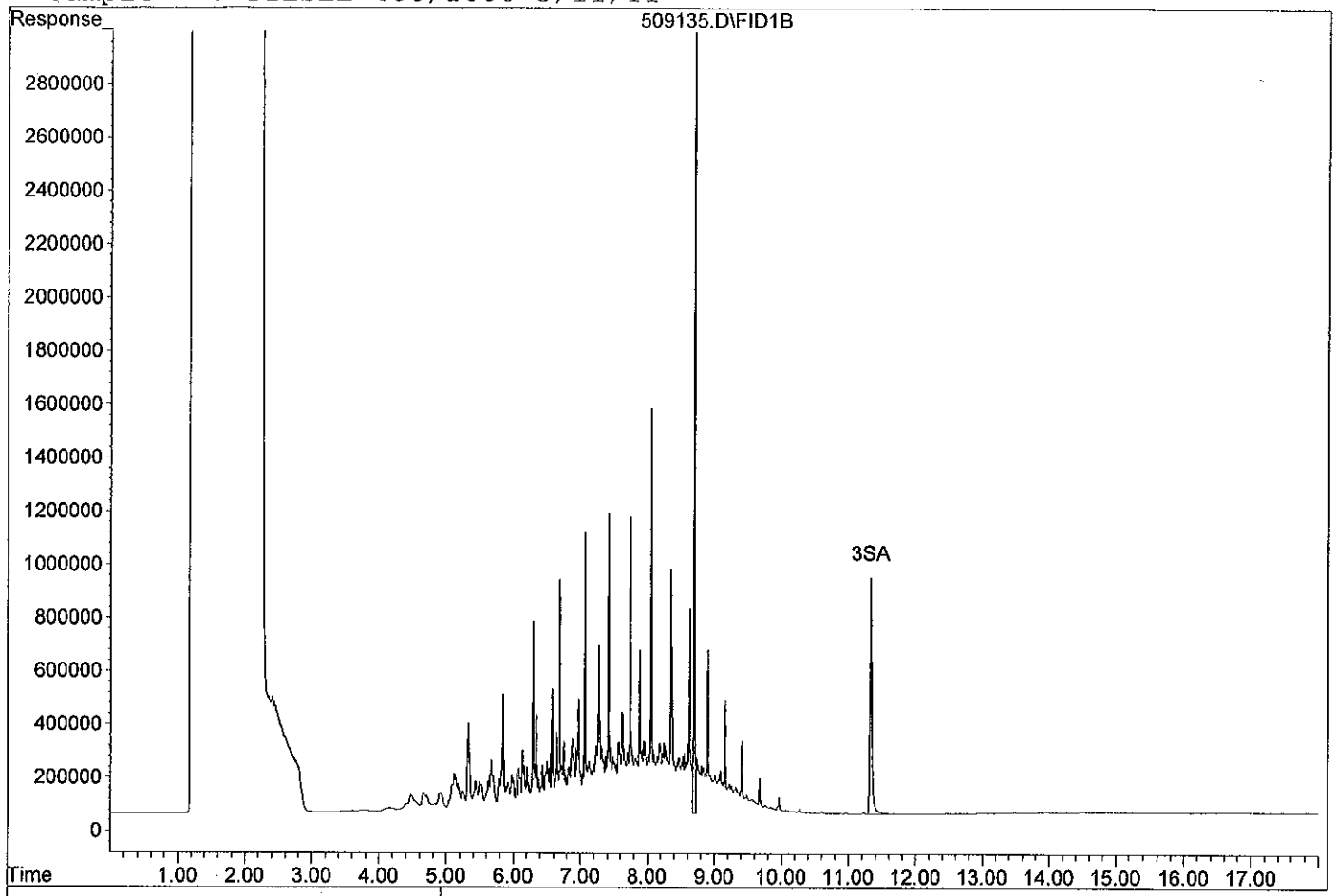
Data File : G:\APOLLO\DATA\110509\509135.D Vial: 35
Acq On : 5-11-11 20:21:44 Operator: LAC
Sample : DIESEL 400/1000 5/11/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: May 12 9:36 2011 Quant Results File: TPHODRO.RES

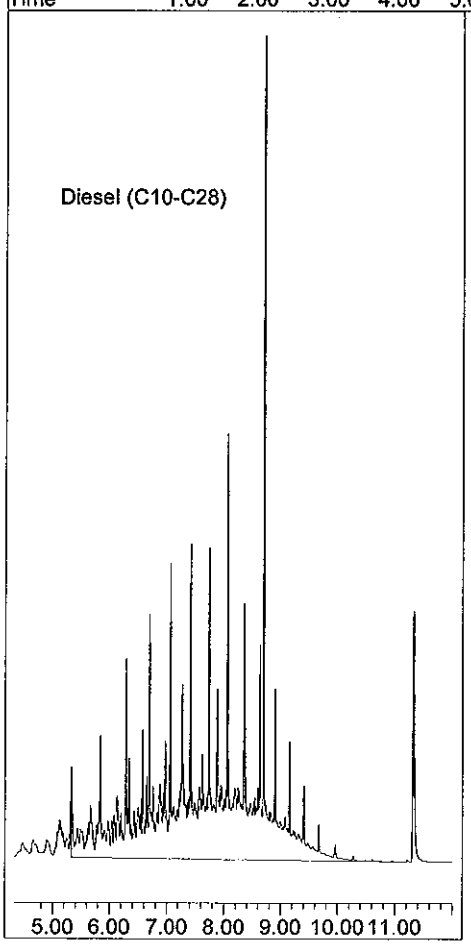
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	30801912	17.822 ppb
Surrogate Spike 30.000	Recovery =		59.41%
3) SA Octacosane(S)	11.33	17519560	15.258 ppb
Surrogate Spike 30.000	Recovery =		50.86%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	440129960	382.962 ppb

Data File: G:\APOLLO\DATA\110509\509135.D
Sample : DIESEL 400/1000 5/11/11





Form 7

Continuing Calibration

TPHODRO

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

SDG No:
Date Analyzed: 05/12/11
Instrument: Apollo
Initial Cal. Date: 05/09/11
Data File: 509151.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	574640	611534	6.4	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
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21							
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27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			6.4		

Quantitation Report (Not Reviewed)

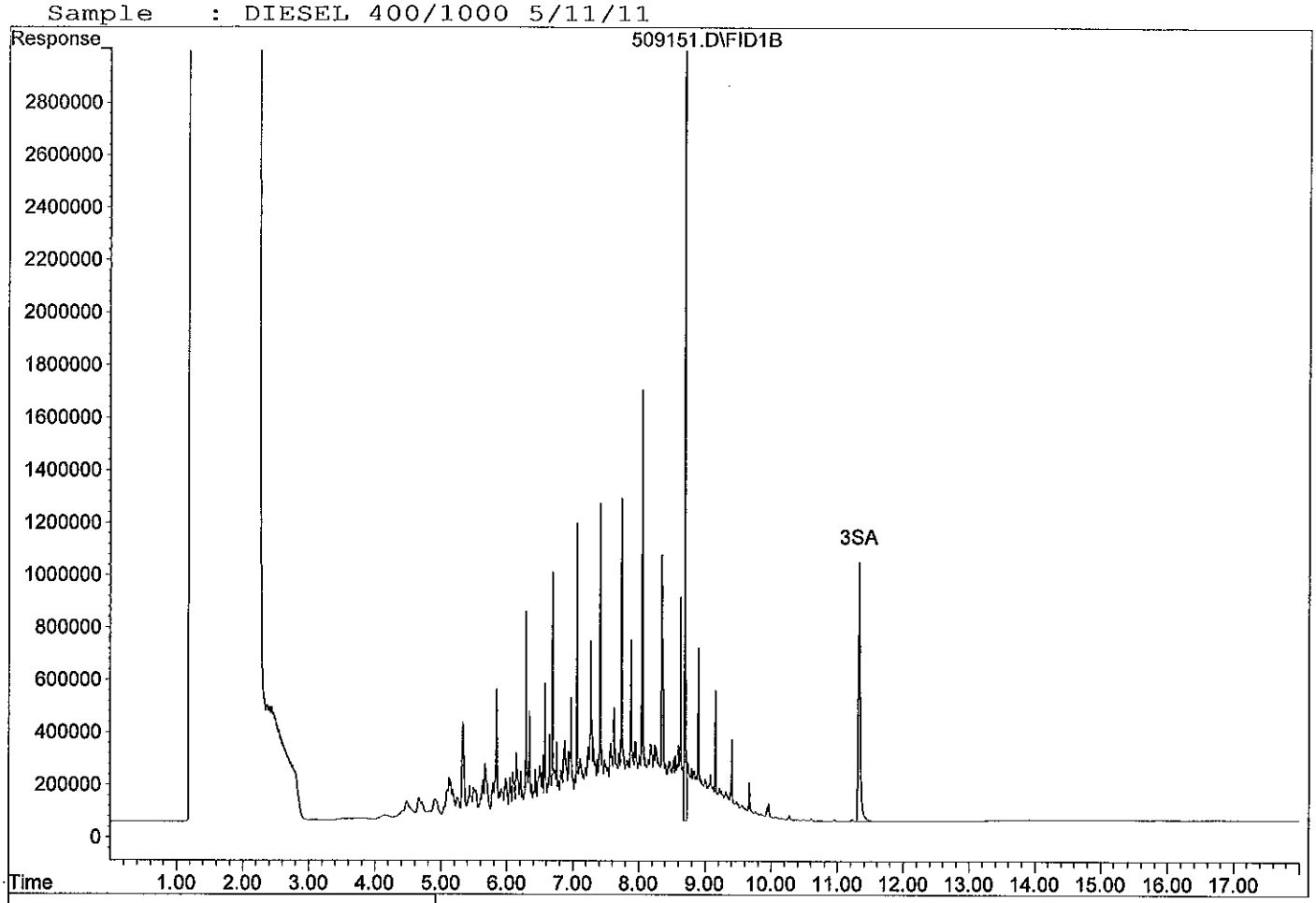
Data File : G:\APOLLO\DATA\110509\509151.D Vial: 51
Acq On : 5-12-11 2:58:29 Operator: LAC
Sample : DIESEL 400/1000 5/11/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: May 12 9:40 2011 Quant Results File: TPHODRO.RES

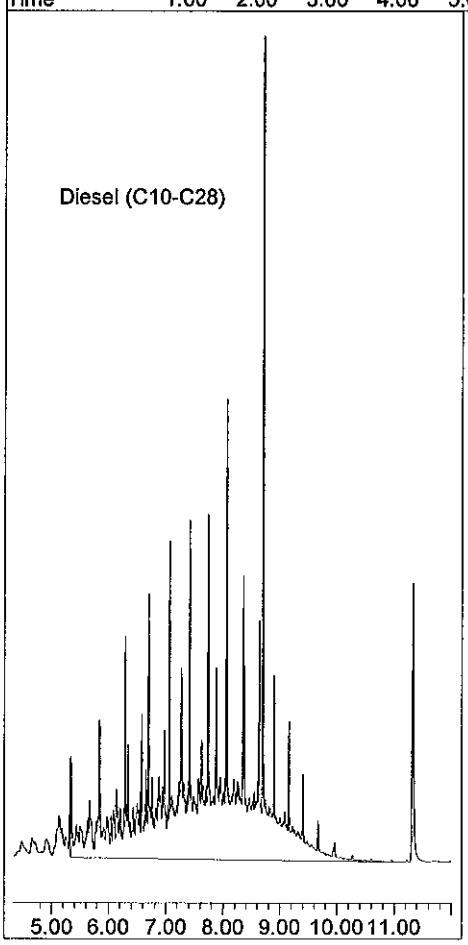
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	34557678	19.996 ppb
Surrogate Spike 30.000	Recovery =		66.65%
3) SA Octacosane(S)	11.33	19128071	16.659 ppb
Surrogate Spike 30.000	Recovery =		55.53%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	489226976	425.681 ppb

Data File: G:\APOLLO\DATA\110509\509151.D
Sample : DIESEL 400/1000 5/11/11





EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data

Method Blank
TPH Diesel Water

Blank Name/QCG: **110428W-36384 - 155024**
Batch ID: #TPETD-110428A

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	04/28/11	05/11/11
BLANK	SURROGATE: OCTACOSANE (S)	78.1	28-142			%	04/28/11	05/11/11
BLANK	SURROGATE: ORTHO-TERPHEN	59.6	57-132			%	04/28/11	05/11/11

Quant Method: TPHODRO.M
Run #: 509116
Instrument: Apollo
Sequence: 110509
Initials: TRL

GC SC-Blank-REG MDLs
Printed: 05/12/11 1:07:22 PM

Quantitation Report (QT Reviewed)

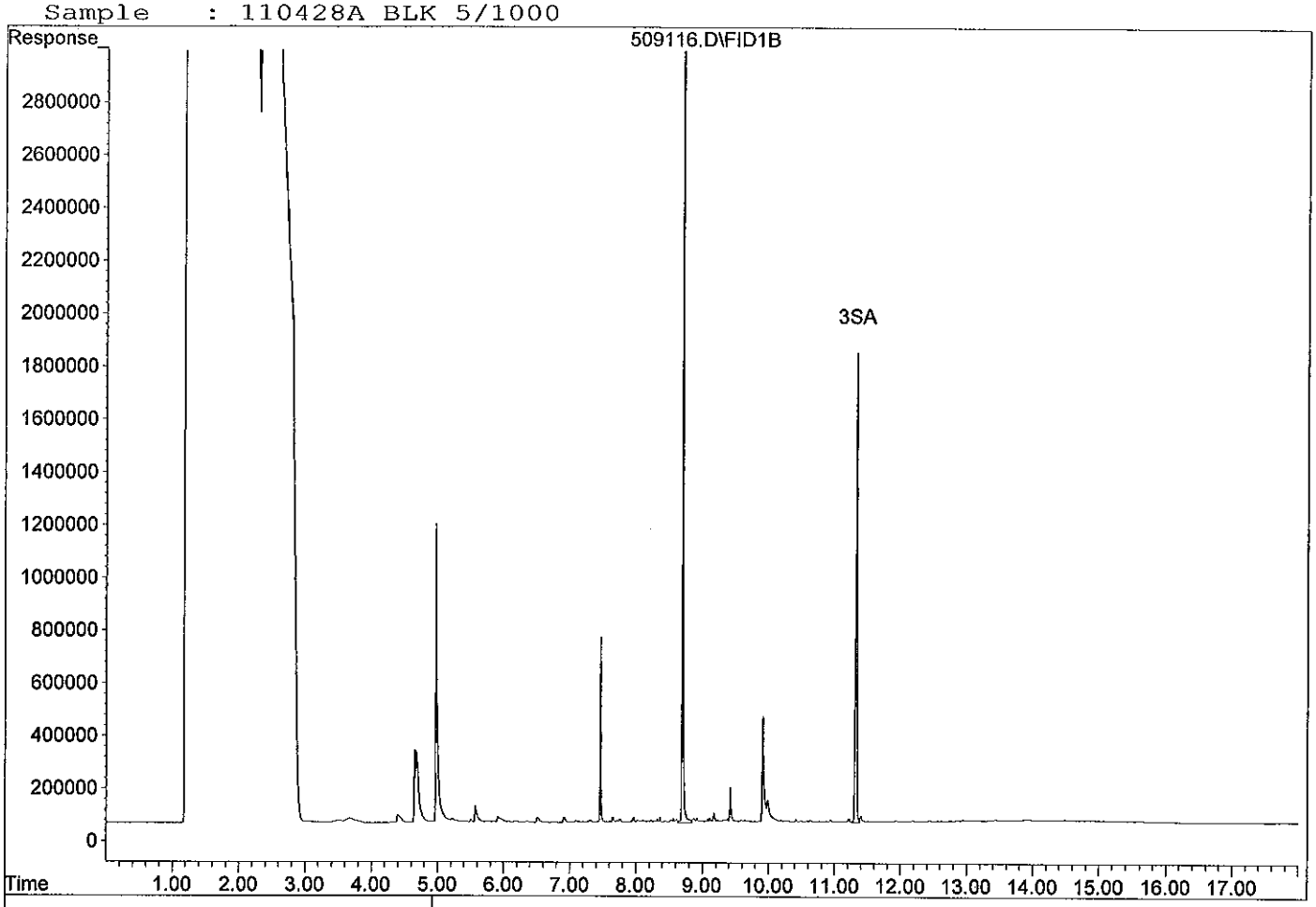
Data File : G:\APOLLO\DATA\110509\509116.D Vial: 16
Acq On : 5-11-11 12:26:04 Operator: LAC
Sample : 110428A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: May 12 9:45 2011 Quant Results File: TPHODRO.RES

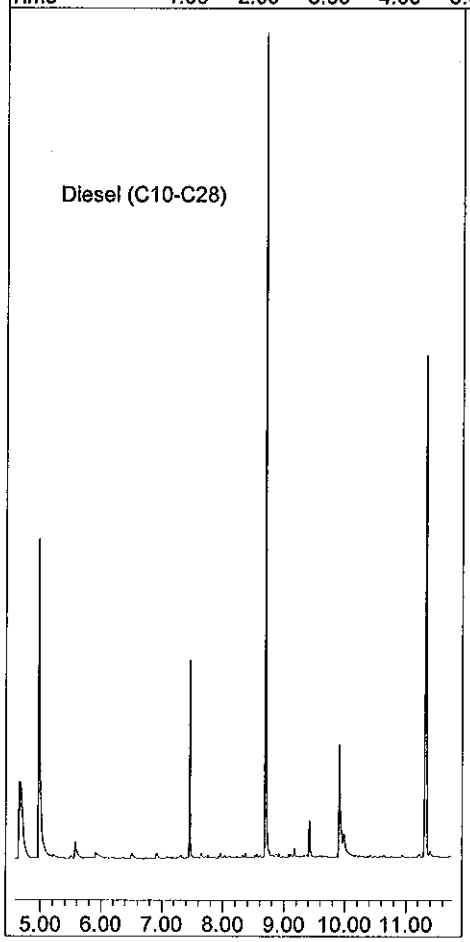
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	30904846	89.410 ppb
Surrogate Spike 150.000		Recovery =	59.61%
3) SA Octacosane(S)	11.33	26885392	117.073 ppb
Surrogate Spike 150.000		Recovery =	78.05%
Target Compounds			

Data File: G:\APOLLO\DATA\110509\509116.D
Sample : 110428A BLK 5/1000





Laboratory Control Spike Recovery

TPH Diesel Water

APPL ID: **110428W-36384 LCS - 155024**
Batch ID: #TPETD-110428A

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	1340	67.0	61-143
SURROGATE: OCTACOSANE (S)	150	103	68.7	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	88.6	59.1	57-132

Comments:

Primary	SPK
Quant Method :	TPHODRO.M
Extraction Date :	04/28/11
Analysis Date :	05/11/11
Instrument :	Apollo
Run :	509117
Initials :	TRL

Printed: 05/12/11 1:07:23 PM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\110509\509117.D Vial: 17
Acq On : 5-11-11 12:50:57 Operator: LAC
Sample : 110428A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: May 12 9:42 2011 Quant Results File: TPHODRO.RES

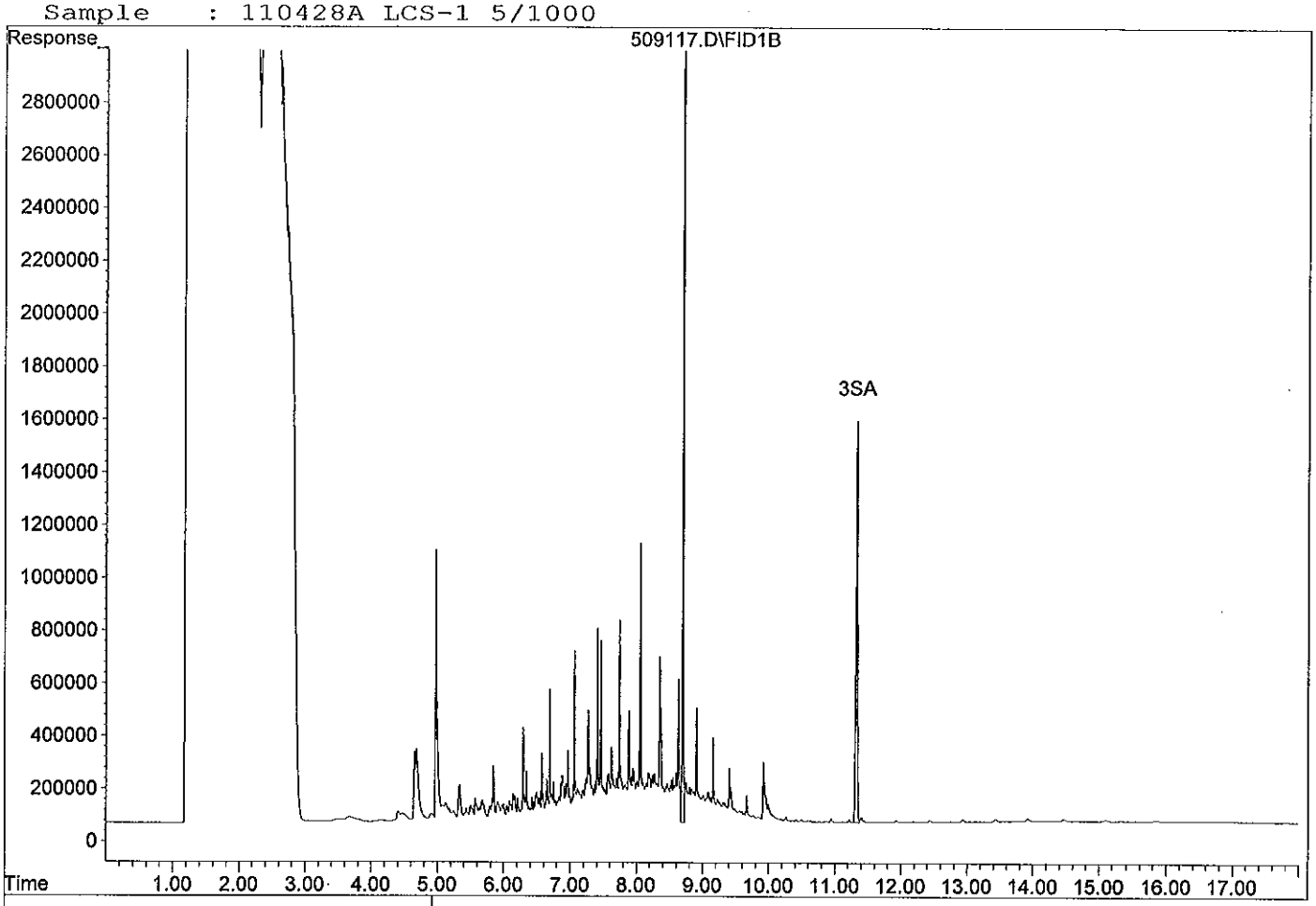
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

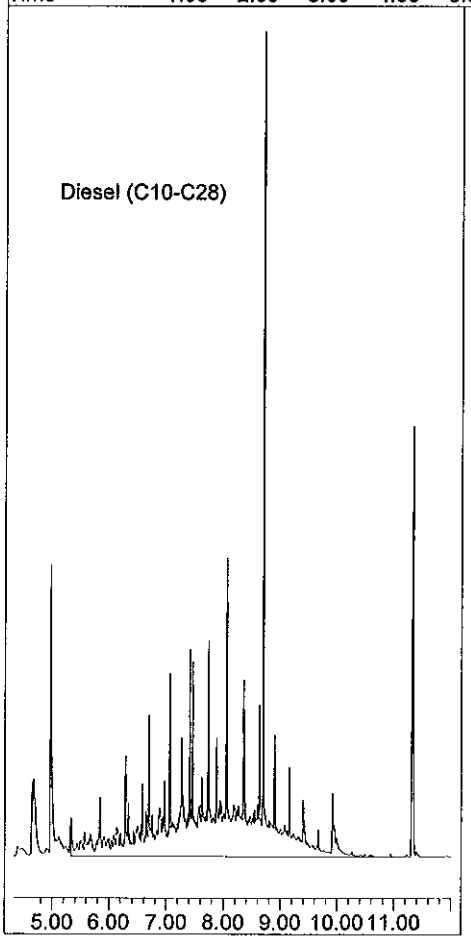
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	30612007	88.563 ppb
Surrogate Spike 150.000		Recovery =	59.04%
3) SA Octacosane(S)	11.33	23754139	103.438 ppb
Surrogate Spike 150.000		Recovery =	68.96%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	308057378	1340.219 ppb

Algorithm = $\frac{308057378 \times 5}{2\,4\,574640} = 1340$

Data File: G:\APOLLO\DATA\110509\509117.D
Sample : 110428A LCS-1 5/1000





Matrix Spike Recoveries

TPH Diesel Water

APPL ID: **110428W-36384 MS - 155024**
Batch ID: #TPETD-110428A
Sample ID: AY36384
Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL FUEL	2000	ND	1580	1570	79.0	78.5	61-143	0.63	30
SURROGATE: OCTACOSANE (S)	150	NA	104	113	69.3	75.3	28-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	NA	115	106	76.7	70.7	57-132		

Comments:

Primary	SPK	DUP
Quant Method :	TPHODRO.M	TPHODRO.M
Extraction Date :	04/28/11	04/28/11
Analysis Date :	05/11/11	05/11/11
Instrument :	Apollo	Apollo
Run :	509142	509143
Initials :	TRL	

Printed: 05/12/11 1:07:30 PM
APPL MSD SCII

Quantitation Report (Not Reviewed)

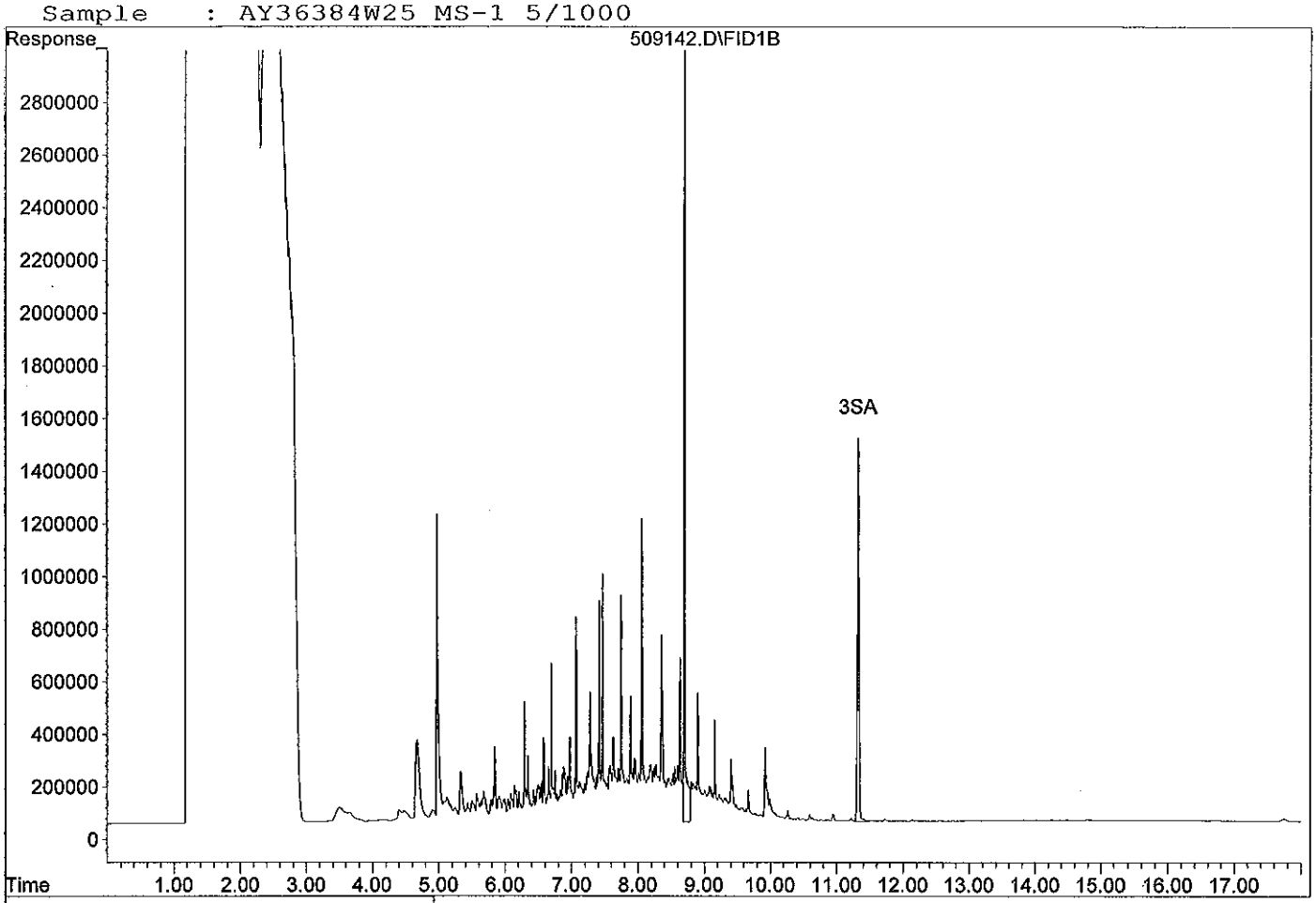
Data File : G:\APOLLO\DATA\110509\509142.D Vial: 42
Acq On : 5-11-11 23:16:32 Operator: LAC
Sample : AY36384W25 MS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: May 12 9:44 2011 Quant Results File: TPHODRO.RES

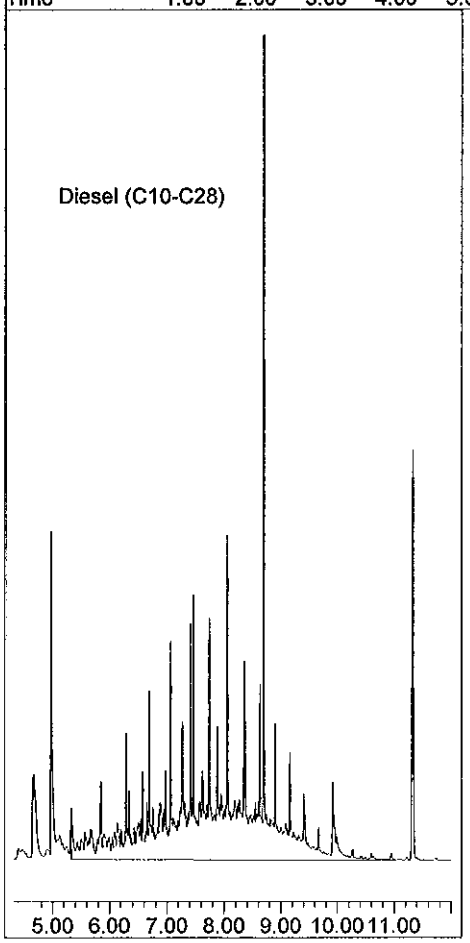
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	39743959	114.982 ppb
Surrogate Spike 150.000		Recovery =	76.65%
3) SA Octacosane(S)	11.32	23945026	104.269 ppb
Surrogate Spike 150.000		Recovery =	69.51%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	363749112	1582.509 ppb

Data File: G:\APOLLO\DATA\110509\509142.D
Sample : AY36384W25 MS-1 5/1000





Quantitation Report (Not Reviewed)

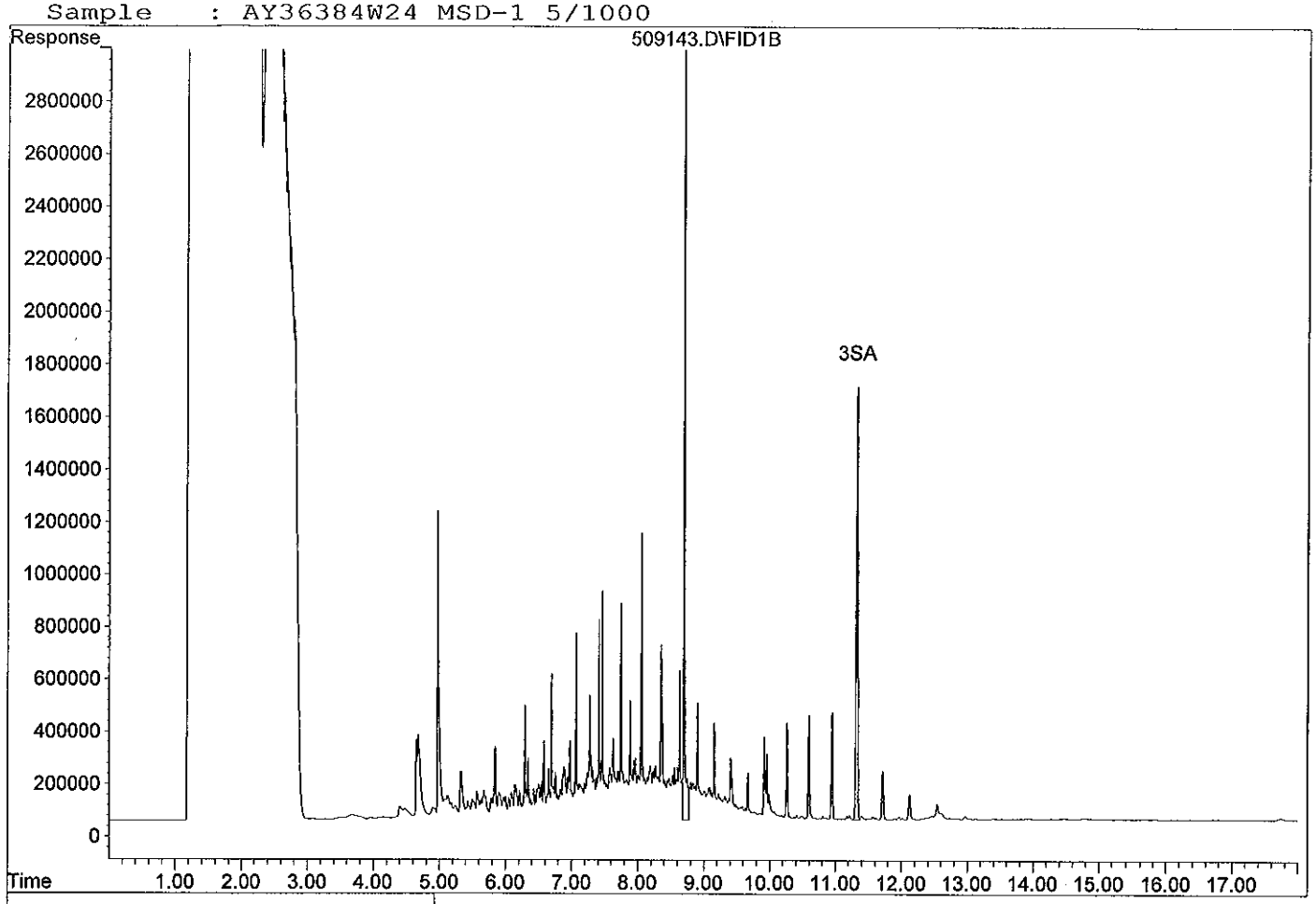
Data File : G:\APOLLO\DATA\110509\509143.D Vial: 43
Acq On : 5-11-11 23:41:25 Operator: LAC
Sample : AY36384W24 MSD-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: May 12 9:44 2011 Quant Results File: TPHODRO.RES

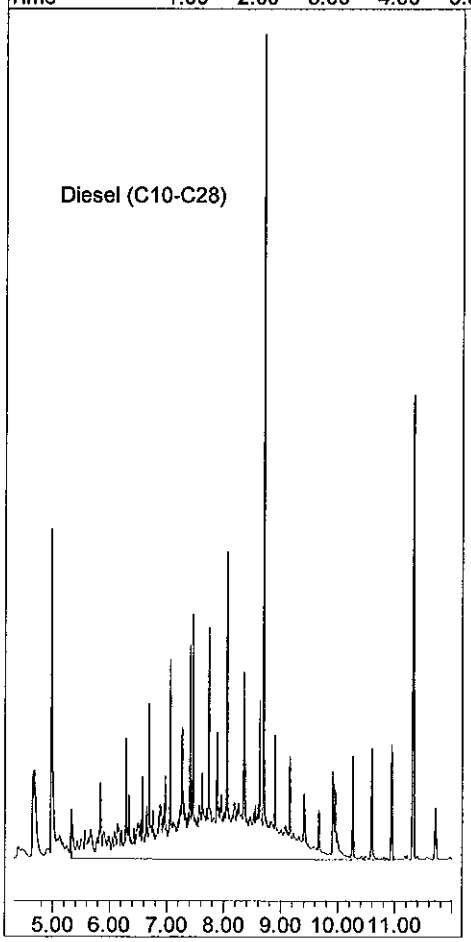
Method : G:\APOLLO\DATA\110509\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 11:47:16 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	36549653	105.741 ppb
Surrogate Spike 150.000		Recovery =	70.49%
3) SA Octacosane(S)	11.32	25920246	112.870 ppb
Surrogate Spike 150.000		Recovery =	75.25%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	360391213	1567.900 ppb

Data File: G:\APOLLO\DATA\110509\509143.D
Sample : AY36384W24 MSD-1 5/1000





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

041

THC SURROGATE * GAVE TO EXTRACTION

O-TERPHENYL OCTACOSANE	600 ng/µl	0251	N/A	25mL	600 ng/µl	N/A		3/7/11 ex: 3/7/12

CAT: 110316-05
LOT: 164819-28057
OP: 3/7/11
EX: 3/7/12
AND
LOT: 161639-27682
OP: 3/7/11
EX: 3/7/12

DIESEL STANDARD

DIESEL FUEL #2	50,000 ng/µl	0251	1000 µl	50mL	1000 ng/µl	MC	# 110510F	3/7/11 ex: 9/7/11

o2si
Diesel Fuel #2 Composite
Lot #: 156524 - 27196
Rec: 9/10/10 MFR exp. 04/04/14

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
Cat. No: 011598-03 Exp: 4/4/2014
Lot No: 156524 Storage: </= -10 Degrees C
Solvent: Methylene
ption For Research Use Only
Opened: 3/7/11
EX: 3/7/12

3/7/11

O-TERPHENYL OCTACOSANE	600 ng/µl	0251	4170 µl		50 ng/µl			

CAT: 110316-05
LOT: 164819-28058
OP: 3/2/10
EX: 3/2/11

MOTOR OIL STANDARD

MOTOR OIL	50,000 ng/µl	0251	1000 µl	50mL	1000 ng/µl	MC	# 110510F	3/7/11 ex: 9/7/11

o2si smart solutions
Made in USA
Date Opened:

Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02 Storage: </= -10 Degrees C
Lot No: 161898 Solvent: Methylene Chloride
Exp: 7/23/2013 OP: 3/7/11
Motor oil composite EX: 3/7/12
Lot #: 161898 - 27587
Rec: 10/18/10 MFR exp. 07/23/13

3/7/11

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS
042							

DIESEL 2ND SOURCE STD.

DIESEL FUEL #2	50,000ug/ml	0251	1000ml	50ml	1000ug/ml	MC	#110510F 3/7/11 EX: 9/7/14

Diesel Fuel #2 Composite
DP: 3/7/11 50,000 mg/L, 1 ml EX: 3/7/12
Made in the USA. FOR R&D only, not human consumption.
811598-83
Lot # 167768 | Storage S-10 Degrees C | Expiry 2/15/15
Solv: Methylene Chloride
3/7/11
Diesel Fuel #2 Composite
Lot #: 167768 - 28174
Rec: 1/20/11 MFR exp. 02/15/15

O-TERPHENYL OXYFLUORFEN	600ug/ml	0251	4170 ml	CAT: 110316-05 LOT: 164819-28058 DP: 3/2/11 EX: 3/2/12	50ug/ml		

HERB SPIKE

Analytes:	Conc. in mix (ug/ml)	Conc. In Stock (ug/ml)	Allqoute (uL)	Final Vol. STOCK SRC (ml)	Final Vol. Solvent (mL)
Dalapon	6.4	320	1000		50
3,5 Dichlorobenzoic Acid	0.64	32		Source: Accustd	MTBE
4-Nitrophenol	1.6	80		Cat #: S-8254A-R1	Lot #
2,4-DCAA (S)	3.2	160		LOT#: B8080038-1A	50112
Dicamba	0.64	32		-26959	
MCPP	640	32000		OPEN: 1/28/11	
MCPA	640	32000		EXP: 7/16/11	
2,4-DP	3.2	160			
2,4-D	3.2	160			
DNOC	1.28	64			
PCP	0.64	32			
2,4,5-TP	0.64	32			
Chloramben	3.2	160			
2,4,5-T	0.64	32			
Dinoseb	1.6	80			
2,4-DB	6.4	320			
Bentazon	3.2	160			
Picloram	0.64	32			
Dacthal	0.64	32			
Acifluorfen	1.6	80			

3/7/11
EX: 6/7/11

AccuStandard®
S-8254A-R1
Custom Herbicide Standard
Varied conc. in Hexane:Toluen
Lot: B8080038-1A DP: 3/7/11
Exp: Jul,16,2011 EX: 7/16/11

Custom Herbicide Standard
Lot #: B8080038-1A - 27782
Rec: 11/23/10 MFR exp. 07/16/11
20 comps.
FLAMMABLE
3/7/11

HERB 20/1000 CCV LEVEL 4

SEE AB 026.	VARIOUS HERB STD.	200ml	1ml	200ug/ml	MTBE	#50112	3/7/11 EX: 8/9/11
	PREP: 2/9/11 EX: 8/9/11						

OP
PREP
SUPP
VWR

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

077

HERB SECOND SOURCE

Analytes:	Conc. in mix (ug/ml)	Conc. In Stock (ug/ml)	Aliqout (uL)	STOCK SOUIRCE O2SI	Final Vol. Solvent (ml)
Dalapon	12.8	64	1000		5
3,5 Dichlorobenzoic Acid	1.28	6.4		CAT: 132070-01	MTBE
4-Nitrophenol	3.2	16		LOT: 163603-27180	Lot #
2,4-DCAA (S)	6.4	32		OP: 4/21/11	50112
Dicamba	1.28	6.4		EXP: 4/21/12	
MCPP	1280	6400			
MCPA	1280	6400			
2,4-DP	6.4	32			
2,4-D	6.4	32			
DNOC	2.56	12.8			
PCP	1.28	6.4			
2,4,5-TP	1.28	6.4			
Chloramben	6.4	32			
2,4,5-T	1.28	6.4			
Dinoseb	3.2	16			
2,4-DB	12.8	64			
Bentazon	6.4	32			
Picloram	1.28	6.4			
Dacthal	1.28	6.4			
Acifluorfen	3.2	16			

Custom Herbicide Mix (Second Source), Underivatized Acids, EPA 132070-01-SS
Lot # 165787 Storage ≤ 6 Degrees C Expiry 11/9/13
Solv: Tol./Hex./MtBE
Custom Herbicide Mix (SS)
Lot #: 165787 - 27776
Rec: 11/23/10 MFR exp. 11/09/13
OP: 4/21/11 EX: 4/21/12

4/21/11
EX:
10/21/11

**1 ml ampule is derivitized by extraction and brought up to 5ml in MTBE

DIESEL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		03/07/11	09/07/11	10	100	400	600	800	1000
MC		010611B			990	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

4/22/11
EX:
9/7/11

MOTOR OIL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		03/07/11	09/07/11	50	100	400	600	800	1000
MC		010611B			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 STD.	1000µg/ml	O2SI	400µL	1 mL	400 µg/mL	MC
Lot:149530	Prep:	03/07/11				010611B
-25265	Exp:	09/07/11				

PREP DATE:	04/22/11					
OP 2ND SOURCE						
EXP:	04/23/11					
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL
	OP 2ND SRC	5		04/13/11	04/23/11	500
VWR	HEXANE		010711A			500
					Final VOL.	1000

4/22/11
EX: 4/23/11

OP/FAM CURVE													
PREP:	04/22/11	EXP:	10/13/11			IB	IA	1	2	3	4	5	6
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
	OP/F STD	5		04/13/11	10/13/11	DF2 OF 2	2	10	50	200	500	700	1000
VWR	Hexane		010711A			500	998	990	950	800	500	300	NA
					Final VOL.	1000	1000	1000	1000	1000	1000	1000	1000

4/22/11
EX:
10/13/11

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

THC SURROGATE (* GAVE TO EXTRACTIONS)

O-TERPHENYL	600mg/mL	O2SI	N/A	25mL	600mg/L	N/A	5/9/11
OCTACOSANE		CAT: 110316-05					EX: 5/9/12
		LOTS: 170258- 28803 thru 28807					
		OP: 5/9/11					
		EX: 5/9/12					

5/11/11

DIESEL CCV 400ug/ml

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
DIESEL STD.	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		05/09/11	11/09/11			010611B

5/11/11
EX: 11/9/11

MOTOR OIL CCV 400UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
MOTOR OIL STD	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		05/09/11	11/09/11			010611B

5/11/11

DIESEL CCV 600ug/ml

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
DIESEL STD.	1000UG/ML	O2SI	600µL	1 mL	600 µg/ml	MC
		05/09/11	11/09/11			010611B

5/11/11
EX: 11/9/11

MOTOR OIL CCV 600UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
	1000UG/ML	O2SI	600µL	1mL	600 UG/ML	MC
MOTOR OIL STD		05/09/11	11/09/11			010611B

STANDARD
082

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

PYRETHROIDS STANDARD

STD / COMPOUND	INIT CONC	SRC DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT
Bifenthrin	100 µg/ml	*O2SI*	250 µL	25 mL	1 µg/ml	Acetone
Cyfluthrin		Part: 93679				#120610C
Cypermenthrin		Lot: 050509-28768				
Esfenvalerate		Op: 4/26/11				
Fenvalerate		Exp: 4/26/12				
Lambda-cyhalothrin						
permthrin, mixed isomers						
(46% cis, 53% trans)						
Dicofol	100 µg/ml	*Ultra*	250 µL		1 µg/ml	
		Pst-391m100A01				
		CG-0033A				
		Op: 12/20/10				
		Exp: 12/20/11				
Fenpropathrin	100 µg/ml	*O2SI*	250 µL		1 µg/ml	
		Cat: 031116-03				
		Lot: 157913-26401				
		Op: 4/12/11				
		Exp: 4/1/12				

4/26/11

EX: 10/26/11

Mineral Spirits Standard

Compound	Initial Conc.	Stock Source	Aliquot	Final Vol.	Final Conc	Solvent
Mineral	50,000 µg/mL	Restek	200 µL	10 mL	1000 µg/mL	MC
Spirits		Cat:31260				#010611B
		Lot: A072377-28769				
		Op: 4/27/11				
		Exp: 4/27/12				

4/27/11

EX: 10/27/11

Mineral Spirits Spike

Compound	Initial Conc.	Stock Source	Aliquot	Final Vol.	Final Conc	Solvent
Mineral	50,000 µg/mL	Restek	1000 µL	25 mL	2000 µg/mL	MC
Spirits		Cat:31260				#010611B
		Lot: A072377-28769				
		Op: 4/27/11				
		Exp: 4/27/12				

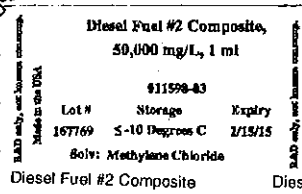
4/27/11

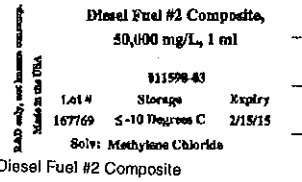
EX: 7/27/11

4/27/11

DIESEL SPIKE

DIESEL FUEL #2 | 50,000 µg/ml | 0251 | 2000 µl | 50 mL | 2000 µg/ml | MC | # 010611B





4/28/11

EX: 7/28/11

4/28/11

DATE / INITIALS	STANDARD	INITIAL CONC	SOURCE	DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS
	THC SURROGATE							* GAVE TO EXTRACTION TL OF 4/20/11	
3/22/11 EX: 9/22/11	O-TERPHENYL	600ng/µl	D251	N/A	25mL	600ng/µl	N/A		3/25/11 EX: 3/25
	DECACHLORANE	CAT: 110316-05 LOT: (164819) 28492 & 28493 LOT: (170258) 28496 & 28498 LOT: (170258) 28497 & 28499-501 ALL OPEN: 3/25/11 EX: 3/25/12							
	Herb 200/1000 CCV								
various analytes see pg 54.	various see pg. 054	Herb Std. prep: 3/22/11 EX: 9/22/11	200mL	1mL	various	MTBE #50112			3/25/11 EX: 9/22/11
	DIESEL 400 & 600/1000 CCV								
9/24/11 9/24/11	DIESEL FUEL #2	1000ng/µl	DIESEL STD PREP: 3/7/11 EX: 9/7/11	400mL 600mL	1mL 1mL	400ng/µl 600ng/µl	MC #0106118		3/25/11 EX: 6/25/11 ~~9/7/11~~ 3/25/11
	MOTOR OIL 400 & 600/1000ng/µl CCV								
	MOTOR OIL	1000ng/µl	MOTOR OIL STD. prep: 3/7/11 EX: 9/7/11	400mL 600mL	1mL 1mL	400ng/µl 600ng/µl	MC #0106118		3/25/11 EX: 6/25/11
	EE SOIL I (LEVEL 3) CCV								
LAC 3/24/11 EX: 9/24/11	VARIOUS see BK 34 Pg. 93	1ng/µl	EE SOIL I STD. prep: 11/10/10 EX: 4/10/11	100mL	1mL	0.1ng/µl	HEXANE #082610B		3/25/11 EX: 4/10/11
3/24/11 EX: 6/15/11 µL 1000 N/A 1000 3/24/11 EX: 8/14/11	**THC SURROGATE**							* GAVE TO EXTRACTION	
	O-TERPHENYL	600ng/µl	D251	N/A	25mL	600ng/µl	N/A		3/25/11 EX: 3/25/12
	DECACHLORANE	CAT: 110316-05 LOT: 170258. 28494 & 28495 OP: 3/25/11 EX: 3/25/12							

_SBP011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	110428A	Extraction Method	SBP011	Units	mL

Spiked ID 1	Diesel Spike 4/28/11 EX 7/28/11		Surrogate ID 1	THC Surrogate 164819-28492	
Spiked ID 2	Motor Oil Spike 3/31/11 EX 6/30/11		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:	YES	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	05/05/11 0:00	

pH1			W Bath Temp	80 °C
pH2				
pH3				

Spiked By: DL **Date** 04/28/11 **Witnessed By:** GH **Date** 04/28/11

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	110428A Blk				0.250	1	1000	5	7	04/28/11 13:40	
2	110428A LCS-1		1	1	0.250	1	1000	5	7	04/28/11 13:40	
3	110428A LCS-2		1	2	0.250	1	1000	5	7	04/28/11 13:40	
4	AY36301	AY36301W08			0.250	1	1000	5	7	04/28/11 13:40	64477 -- Amber Liter
5	AY36302	AY36302W07			0.250	1	1000	5	7	04/28/11 13:40	64477 -- Amber Liter
6	AY36305 MS-1	AY36305W15	0.5	1	0.125	1	500	2.5	7	04/28/11 13:40	64477 -- Amber Liter
7	AY36305 MSD-1	AY36305W15	0.5	1	0.125	1	500	2.5	7	04/28/11 13:40	64477 -- Amber Liter -- Amber Liter
8	AY36305 MS-2	AY36305W14	0.5	2	0.125	1	500	2.5	7	04/28/11 13:40	64477 -- Amber Liter
9	AY36305 MSD-2	AY36305W14	0.5	2	0.125	1	500	2.5	7	04/28/11 13:40	64477 -- Amber Liter
10	AY36305	AY36305W16			0.250	1	1000	5	7	04/28/11 13:40	64477 -- Amber Liter
11	AY36307	AY36307W08			0.250	1	1000	5	7	04/28/11 13:40	64477 -- Amber Liter
12	AY36308	AY36308W07			0.250	1	1000	5	7	04/28/11 13:40	64477 -- Amber Liter
13	AY36309	AY36309W07			0.250	1	1040	5	7	04/28/11 13:40	64477 -- Amber Liter
14	AY36310	AY36310W08			0.250	1	1000	5	7	04/28/11 13:40	64477 -- Amber Liter
15	AY36384 MS-1	AY36384W25	1	1	0.250	1	1000	5	7	04/28/11 13:40	64484 -- Amber Liter
16	AY36384 MSD-1	AY36384W24	1	1	0.250	1	1000	5	7	04/28/11 13:40	64484 -- Amber Liter
17	AY36384	AY36384W21			0.250	1	1020	5	7	04/28/11 13:40	64484 -- Amber Liter
18	AY36385	AY36385W05			0.250	1	1030	5	7	04/28/11 13:40	64484 -- Amber Liter
19	AY36387	AY36387W05			0.250	1	1000	5	7	04/28/11 13:40	64484 -- Amber Liter

CC 4/28/11

Solvent and Lot#	
MC	VWR 112910A
Na2SO4	0440C237

Extraction COC Transfer	
Extraction lab employee Initials	RJS
GC analyst's initials	MA
Date	5/3/11
Time	10:00
Refrigerator	Hobart

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	CC

Modified	04/28/11 12:05:31 PM

Reviewed By: CC 77 **Date** 04/28/11

Injection Log

Directory: G:\APOLLO\DATA\110422\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	422004.D	1	DIESEL 10/1000 4/22/11	Mix(A)	4-22-11 11:20:08
2	5	422005.D	1	DIESEL 100/1000	Mix(A)	4-22-11 11:45:11
3	6	422006.D	1	DIESEL 400/1000	Mix(A)	4-22-11 12:10:19
4	7	422007.D	1	DIESEL 600/1000	Mix(A)	4-22-11 12:35:32
5	8	422008.D	1	DIESEL 800/1000	Mix(A)	4-22-11 13:00:52
6	9	422009.D	1	DIESEL 1000/1000	Mix(A)	4-22-11 13:26:13
13	16	422016.D	1	DIESEL 2ND SRC 400/1000 4/22/11	Mix(A)	4-22-11 16:19:58
1	14	509114.D	1	DIESEL 400/1000 5/11/11	Mix(A)	5-11-11 11:36:40
2	16	509116.D	5	110428A BLK 5/1000	Water	5-11-11 12:26:04
3	17	509117.D	5	110428A LCS-1 5/1000	Water	5-11-11 12:50:57
4	35	509135.D	1	DIESEL 400/1000 5/11/11	Mix(A)	5-11-11 20:21:44
5	42	509142.D	5	AY36384W25 MS-1 5/1000	Water	5-11-11 23:16:32
6	43	509143.D	5	AY36384W24 MSD-1 5/1000	Water	5-11-11 23:41:25
7	44	509144.D	4.90196	AY36384W21 5/1020	Water	5-12-11 0:06:20
8	45	509145.D	4.85437	AY36385W05 5/1030	Water	5-12-11 0:31:07
9	46	509146.D	5	AY36387W05 5/1000	Water	5-12-11 0:55:54
10	51	509151.D	1	DIESEL 400/1000 5/11/11	Mix(A)	5-12-11 2:58:29

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons

APPL, INC.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
QC Summary

APPL, INC.

Method Blank
EPA 8270D SIM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110428W-36384 - 155153**
Batch ID: #SIMHC-110428A

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	04/28/11	05/04/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
BLANK	SURROGATE: 2-FLUORBIPHENY	51.5	50-110			%	04/28/11	05/04/11
BLANK	SURROGATE: NITROBENZENE-	89.3	40-110			%	04/28/11	05/04/11
BLANK	SURROGATE: TERPHENYL-D14 (	66.3	50-135			%	04/28/11	05/04/11

Quant Method: SIM2.M
Run #: 0504L003
Instrument: Linus
Sequence: L110420
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 6:26:55 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64484

Case No: 64484 Date Analyzed: 05/04/11

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)	SURROGATE: NITROBENZENE-D5 (S)
110428A-BLK	Blank	51.5	89.3
110428A-LCS	Lab Control Spike	51.0	89.5
AY36384-MS	Matrix Spike	56.6	72.4
AY36384-MSD	Matrix SpikeD	58.1	83.1
AY36384	ES029	61.9	69.2
AY36385	ES028	63.5	98.8
AY36387	ES031	54.5	96.6

Comments: Batch: #SIMHC-110428A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64484
Case No: 64484 Date Analyzed: 05/04/11
Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)
110428A-BLK	Blank	66.3
110428A-LCS	Lab Control Spike	59.5
AY36384-MS	Matrix Spike	58.6
AY36384-MSD	Matrix SpikeD	63.7
AY36384	ES029	60.0
AY36385	ES028	80.2
AY36387	ES031	66.6

Comments: Batch: #SIMHC-110428A

Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: **110428W-36384 LCS - 155153**
Batch ID: #SIMHC-110428A

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	2.03	50.7	45-105
2-METHYLNAPHTHALENE	4.00	2.07	51.7	45-105
ACENAPHTHENE	4.00	2.15	53.8	45-110
ACENAPHTHYLENE	4.00	2.09	52.3	50-105
ANTHRACENE	4.00	2.75	68.8	55-110
BENZO(A)ANTHRACENE	4.00	2.63	65.8	55-110
BENZO(A)PYRENE	4.00	2.77	69.3	55-110
BENZO(B)FLUORANTHENE	4.00	2.70	67.5	45-120
BENZO(GHI)PERYLENE	4.00	2.73	68.3	40-125
BENZO(K)FLUORANTHENE	4.00	2.66	66.5	45-125
CHRYSENE	4.00	2.84	71.0	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.79	69.8	40-125
FLUORANTHENE	4.00	2.46	61.5	55-115
FLUORENE	4.00	2.38	59.5	50-110
INDENO(1,2,3-CD)PYRENE	4.00	3.50	87.5	45-125
NAPHTHALENE	4.00	2.06	51.5	40-100
PHENANTHRENE	4.00	2.64	66.0	50-115
PYRENE	4.00	2.76	69.0	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.02	51.0	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.79	89.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.19	59.5	50-135

Comments:

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	04/28/11
Analysis Date :	05/04/11
Instrument :	Linus
Run :	0504L004
Initials :	LF

Printed: 05/16/11 6:27:02 PM

APPL Standard LCS

Matrix Spike Recoveries

EPA 8270D SIM

APPL ID: **110428W-36384 MS - 155153**
Batch ID: #SIMHC-110428A
Sample ID: AY36384
Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	3.92	ND	2.06	2.04	52.5	52.0	45-105	0.98	25
2-METHYLNAPHTHALENE	3.92	ND	2.08	2.01	53.0	51.2	45-105	3.4	25
ACENAPHTHENE	3.92	ND	2.16	2.20	55.1	56.1	45-110	1.8	25
ACENAPHTHYLENE	3.92	ND	2.07	2.14	52.8	54.6	50-105	3.3	25
ANTHRACENE	3.92	ND	2.22	2.39	56.6	60.9	55-110	7.4	25
BENZO(A)ANTHRACENE	3.92	ND	2.12	2.26	54.1 #	57.6	55-110	6.4	25
BENZO(A)PYRENE	3.92	ND	2.32	2.40	59.2	61.2	55-110	3.4	25
BENZO(B)FLUORANTHENE	3.92	ND	2.45	2.44	62.5	62.2	45-120	0.41	25
BENZO(GHI)PERYLENE	3.92	ND	2.26	2.31	57.6	58.9	40-125	2.2	25
BENZO(K)FLUORANTHENE	3.92	ND	2.72	2.28	69.4	58.1	45-125	17.6	25
CHRYSENE	3.92	ND	2.55	2.69	65.0	68.6	55-110	5.3	25
DIBENZ(A,H)ANTHRACENE	3.92	ND	2.25	2.42	57.4	61.7	40-125	7.3	25
FLUORANTHENE	3.92	ND	2.01	2.13	51.2 #	54.3 #	55-115	5.8	25
FLUORENE	3.92	ND	2.23	2.29	56.9	58.4	50-110	2.7	25
INDENO(1,2,3-CD)PYRENE	3.92	ND	2.71	2.84	69.1	72.4	45-125	4.7	25
NAPHTHALENE	3.92	ND	1.99	2.07	50.7	52.8	40-100	3.9	25
PHENANTHRENE	3.92	ND	2.13	2.34	54.3	59.7	50-115	9.4	25
PYRENE	3.92	ND	2.17	2.28	55.3	58.1	50-130	4.9	25
SURROGATE: 2-FLUORBIPHENYL (S)	1.96	NA	1.11	1.14	56.6	58.1	50-110		
SURROGATE: NITROBENZENE-D5 (S)	1.96	NA	1.42	1.63	72.4	83.1	40-110		
SURROGATE: TERPHENYL-D14 (S)	1.96	NA	1.15	1.25	58.6	63.7	50-135		

= Recovery is outside QC limits.

Comments: _____

Primary	SPK	DUP
Quant Method :	SIM2.M	SIM2.M
Extraction Date :	04/28/11	04/28/11
Analysis Date :	05/04/11	05/04/11
Instrument :	Linus	Linus
Run :	0504L007	0504L008
Initials :	LF	

Printed: 05/16/11 6:27:05 PM
APPL MSD SCII

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 64484

Case No: 64484 Date Analyzed: 05/04/11

Matrix: WATER Instrument: Linus

Blank ID: 110428A-BLK Time Analyzed: 1756

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110428A-BLK	Blank	0504L003	05/04/11 1756
110428A-LCS	Lab Control Spike	0504L004	05/04/11 1822
110428A-MS	Matrix Spike	0504L007	05/04/11 1938
110428A-MSD	Matrix SpikeD	0504L008	05/04/11 2004
AY36384	ES029	0504L009	05/04/11 2029
AY36385	ES028	0504L010	05/04/11 2055
AY36387	ES031	0504L011	05/04/11 2120

Comments: Batch: #SIMHC-110428A

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 64484
Matrix: Water
ID: SVTUNE 04-14-11

SDG No: 64484
Date Analyzed: 05/04/11
Instrument: Linus
Time Analyzed: 17:12

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	110428A BLK 1/1000	0504L003.D	05/04/11 17:56
2	Lab Control Spike	110428A LCS-1 1/1000	0504L004.D	05/04/11 18:22
3	Matrix Spike	AY36384W20 MS-1 1/10	0504L007.D	05/04/11 19:38
4	Matrix Spike Dup	AY36384W22 MSD-1 1/1	0504L008.D	05/04/11 20:04
5	ES029	AY36384W19 1/1020	0504L009.D	05/04/11 20:29
6	ES028	AY36385W07 1/1050	0504L010.D	05/04/11 20:55
7	ES031	AY36387W06 1/1050	0504L011.D	05/04/11 21:20
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	29.95 - 60% of mass 198	40.9
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.7
127	40 - 60% of mass 198	52.9
197	0 - 1% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	7.3
275	10 - 30% of mass 198	24.8
365	1 - 100% of mass 198	2.8
441	0.01 - 100% of mass 443	76.8
442	40 - 150% of mass 198	61.4
443	17 - 23% of mass 442	19.8

8A

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: SDG No.: 64484

Lab File ID (Standard): 0420L006.D Date Analyzed: 04/20/11

Instrument ID: Linus Time Analyzed: 23:01

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	2790	6.17	1524	8.18	2709	9.90
	UPPER LIMIT	5580	6.67	3048	8.68	5418	10.40
	LOWER LIMIT	1395	5.67	762	7.68	1355	9.40
	SAMPLE NO.						
01	110428A BLK 1/1000	2708	6.18	1406	8.18	2692	9.91
02	110428A LCS-1 1/1000	2731	6.18	1458	8.18	2823	9.91
03	AY36384W20 MS-1 1/1	2960	6.18	1606	8.18	3054	9.91
04	AY36384W22 MSD-1 1/	3274	6.18	1839	8.18	3475	9.91
05	AY36384W19 1/1020	3110	6.18	1773	8.18	3266	9.91
06	AY36385W07 1/1050	2720	6.18	1497	8.18	2866	9.91
07	AY36387W06 1/1050	3217	6.18	1776	8.18	3353	9.91
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.: 64484

Lab File ID (Standard): 0420L006.D Date Analyzed: 04/20/11

Instrument ID: Linus Time Analyzed: 23:01

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

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	3273	12.96	2558	14.57		
	UPPER LIMIT	6546	13.46	5116	15.07		
	LOWER LIMIT	1637	12.46	1279	14.07		
	SAMPLE NO.						
01	110428A BLK 1/1000	2860	12.97	2387	14.58		
02	110428A LCS-1 1/1000	3053	12.97	2540	14.58		
03	AY36384W20 MS-1 1/1	3291	12.97	2609	14.58		
04	AY36384W22 MSD-1 1/	3863	12.97	3140	14.58		
05	AY36384W19 1/1020	3622	12.97	2982	14.58		
06	AY36385W07 1/1050	3079	12.97	2554	14.58		
07	AY36387W06 1/1050	3723	12.97	3051	14.58		
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: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES029
Sample Collection Date: 04/21/11

ARF: 64484
APPL ID: AY36384
QCG: #SIMHC-110428A-155153

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	04/28/11	05/04/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	61.9	50-110			%	04/28/11	05/04/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	69.2	40-110			%	04/28/11	05/04/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	60.0	50-135			%	04/28/11	05/04/11

Quant Method: SIM2.M
Run #: 0504L009
Instrument: Linus
Sequence: L110420
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 6:27:11 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L009.D
Acq On : 4 May 11 20:29
Sample : AY36384W19 1/1020
Misc :

Vial: 9
Operator: LF
Inst : Linus
Multiplr: 0.98

Quant Time: May 16 18:21 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	3110	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	1773	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	3266	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.97	240	3622	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.58	264	2982	2.50000 ppb	0.01
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.38	82	291	1.35674 ppb	0.01
Spiked Amount 1.961			Recovery = 69.207%		
7) Surrogate Recovery (FBP)	7.42	172	1727	1.21380 ppb	0.00
Spiked Amount 1.961			Recovery = 61.914%		
17) Surrogate Recovery (TPH)	11.78	244	1914	1.17745 ppb	0.01
Spiked Amount 1.961			Recovery = 60.027%		

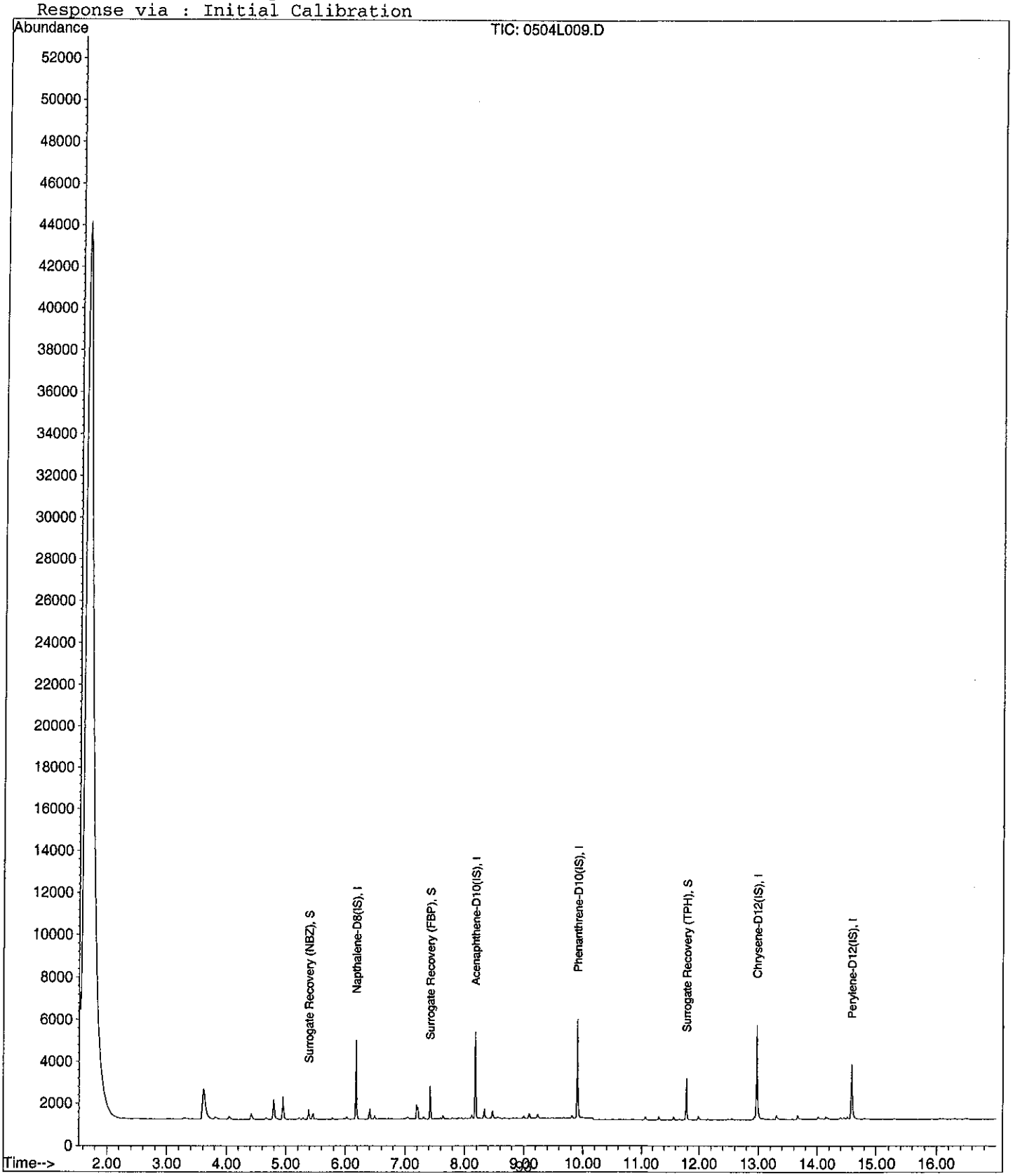
Target Compounds Qvalue

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0504L009.D Vial: 9
Acq On : 4 May 11 20:29 Operator: LF
Sample : AY36384W19 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 18:21 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



EPA 8270D SIM

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES028
Sample Collection Date: 04/21/11

ARF: 64484
APPL ID: AY36385
QCG: #SIMHC-110428A-155153

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	04/28/11	05/04/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	63.5	50-110			%	04/28/11	05/04/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	98.8	40-110			%	04/28/11	05/04/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	80.2	50-135			%	04/28/11	05/04/11

Quant Method: SIM2.M
Run #: 0504L010
Instrument: Linus
Sequence: L110420
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 6:27:11 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L010.D Vial: 10
Acq On : 4 May 11 20:55 Operator: LF
Sample : AY36385W07 1/1050 Inst : Linus
Misc : Multiplr: 0.95

Quant Time: May 16 18:21 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2720	2.50000	ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	1497	2.50000	ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	2866	2.50000	ppb	0.01
15) Chrysene-D12(IS)	12.97	240	3079	2.50000	ppb	0.01
21) Perylene-D12(IS)	14.58	264	2554	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	448	1.88112	ppb	0.01
Spiked Amount 1.905			Recovery = 98.753%			
7) Surrogate Recovery (FBP)	7.42	172	1496	1.20972	ppb	0.00
Spiked Amount 1.905			Recovery = 63.525%			
17) Surrogate Recovery (TPH)	11.78	244	2174	1.52830	ppb	0.01
Spiked Amount 1.905			Recovery = 80.220%			

Target Compounds Qvalue

Quantitation Report

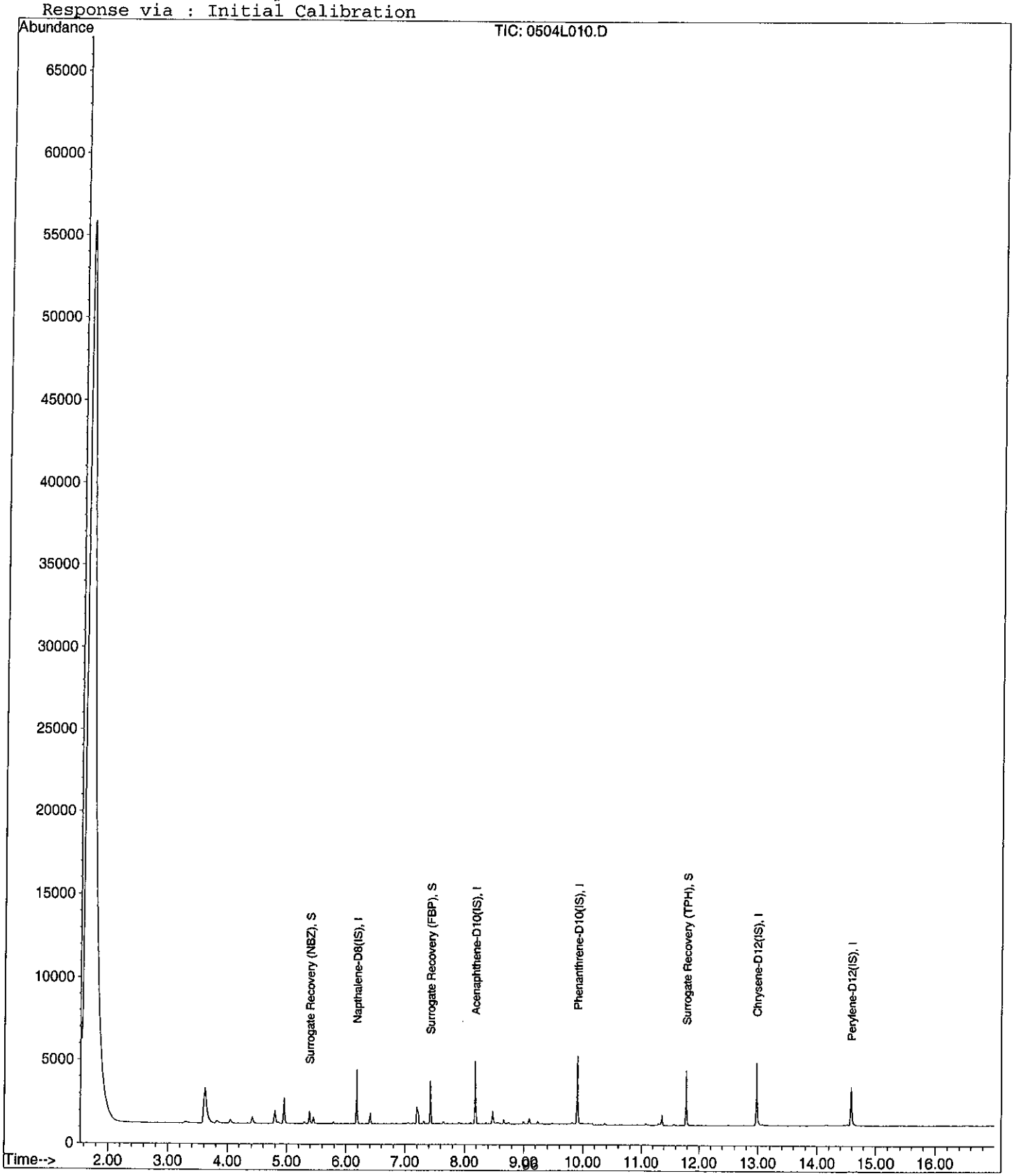
Data File : M:\LINUS\DATA\L110420\0504L010.D
Acq On : 4 May 11 20:55
Sample : AY36385W07 1/1050
Misc :

Vial: 10
Operator: LF
Inst : Linus
Multiplr: 0.95

Quant Time: May 16 18:21 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



EPA 8270D SIM

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
ARF: 64484
Sample ID: ES031
APPL ID: AY36387
Sample Collection Date: 04/21/11
QCG: #SIMHC-110428A-155153

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	04/28/11	05/04/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	54.5	50-110			%	04/28/11	05/04/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	96.6	40-110			%	04/28/11	05/04/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	66.6	50-135			%	04/28/11	05/04/11

Quant Method: SIM2.M
Run #: 0504L011
Instrument: Linus
Sequence: L110420
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 6:27:11 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L011.D Vial: 11
Acq On : 4 May 11 21:20 Operator: LF
Sample : AY36387W06 1/1050 Inst : Linus
Misc : Multiplr: 0.95

Quant Time: May 16 17:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	3217	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	1776	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	3353	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.97	240	3723	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.58	264	3051	2.50000 ppb	0.01
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.38	82	513	1.83964 ppb	0.01
Spiked Amount 1.905			Recovery = 96.600%		
7) Surrogate Recovery (FBP)	7.42	172	1523	1.03808 ppb	0.00
Spiked Amount 1.905			Recovery = 54.495%		
17) Surrogate Recovery (TPH)	11.78	244	2183	1.26917 ppb	0.01
Spiked Amount 1.905			Recovery = 66.623%		
Target Compounds					Qvalue

Quantitation Report

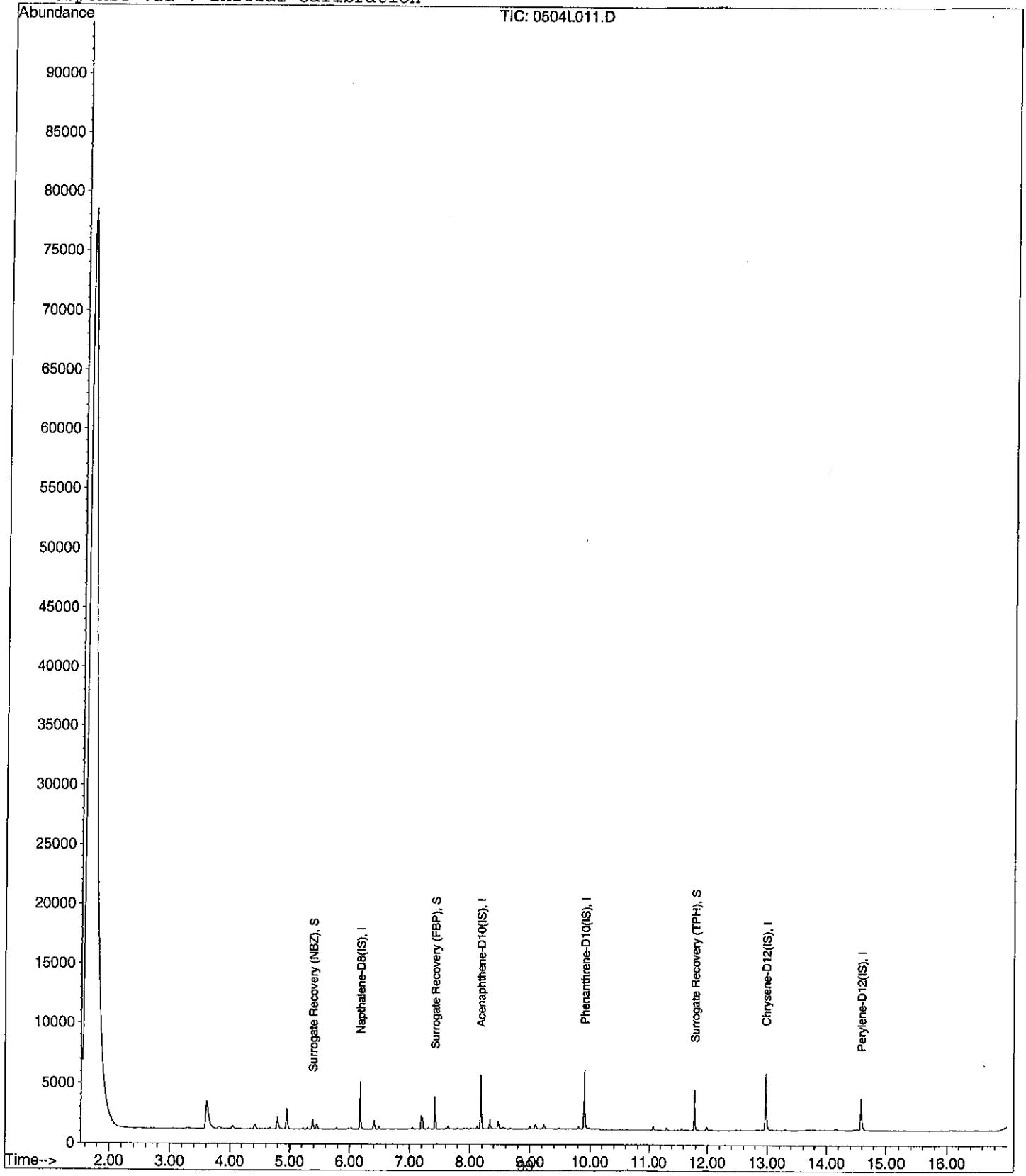
Data File : M:\LINUS\DATA\L110420\0504L011.D
Acq On : 4 May 11 21:20
Sample : AY36387W06 1/1050
Misc :

Vial: 11
Operator: LF
Inst : Linus
Multiplr: 0.95

Quant Time: May 16 17:47 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 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.
Case No:
Matrix:

SDG No: 64484
Initial Cal. Date: 04/20/11
Instrument: Linus

Initials:

			0420L002.D	0420L003.D	0420L004.D	0420L005.D	0420L006.D	0420L007.D	0420L008.D	0420L009.D						
		Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD		r
1	I	Napthalene-D8(IS)														
2	SL	Surrogate Recovery (NBZ)	0.5818	0.4855	0.3006	0.2756	0.2403	0.2702	0.2755	0.3045			0.34	36	SL	0.999
3	TM	Naphthalene	1.800	1.721	1.687	1.607	1.387	1.539	1.272	1.256			1.5	14	TM	
4	TM	2-Methylnaphthalene	1.164	1.099	1.129	1.071	0.9482	1.071	0.8653	0.8145			1.0	13	TM	
5	TM	1-Methylnaphthalene	1.073	1.134	1.064	1.036	0.9045	1.027	0.8041	0.7498			0.97	14	TM	
6	I	Acenaphthene-D10(IS)														
7	S	Surrogate Recovery (FBP)	2.282	2.262	2.174	2.136	1.801	1.988	1.556	1.536			2.0	15	S	
8	TM	Acenaphthylene	3.008	2.938	2.986	2.846	2.523	2.924	2.245	2.257			2.7	12	TM	
9	*TM	Acenaphthene	1.694	1.646	1.766	1.647	1.484	1.681	1.298	1.275			1.6	12	*TM	
10	TM	Fluorene	2.109	2.031	2.053	1.957	1.726	2.015	1.600	1.535			1.9	12	TM	
11	I	Phenanthrene-D10(IS)														
12	TM	Phenanthrene	1.636	1.719	1.608	1.521	1.487	1.527	1.253	1.153			1.5	13	TM	
13	TM	Anthracene	1.393	1.635	1.287	1.231	1.272	1.295	1.087	0.9912			1.3	15	TM	
14	*TM	Fluoranthene	2.241	2.308	2.178	2.150	2.091	2.191	1.807	1.698			2.1	10	*TM	
15	I	Chrysene-D12(IS)														
16	TM	Pyrene	1.991	2.040	2.030	1.904	1.789	1.864	1.511	1.401			1.8	13	TM	
17	S	Surrogate Recovery (TPH)		1.271	1.244	1.190	1.102	1.127	0.9327	0.8335			1.1	15	S	
18	TM	Benz (a) anthracene	1.812	1.740	1.725	1.679	1.569	1.600	1.361	1.249			1.6	12	TM	
19	TM	Chrysene	1.596	1.511	1.537	1.502	1.442	1.486	1.236	1.120			1.4	11	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.149	1.079	1.381	1.040	1.001	1.176	1.091	1.038			1.1	11	TM	
21	I	Perylene-D12(IS)														
22	TM	Benzo (b) fluoranthene	1.916	1.860	1.957	1.823	1.719	2.278	1.621	1.704			1.9	11	TM	
23	TM	Benzo (k) fluoranthene	1.731	1.878	1.899	1.778	1.854	1.571	1.469	1.156			1.7	15	TM	
24	*TM	Benzo (a) pyrene	1.740	1.649	1.601	1.622	1.622	1.740	1.436	1.359			1.6	8.5	*TM	
25	TM	Dibenz (a,h) anthracene	1.379	1.377	1.380	1.339	1.320	1.531	1.358	1.326			1.4	4.9	TM	
26	TM	Benzo (g,h,i) perylene	1.657	1.394	1.523	1.479	1.451	1.576	1.357	1.332			1.5	7.6	TM	
27																
28																
29																
30																
31																
32																
33																
34																
35																

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L002.D Vial: 2
Acq On : 20 Apr 11 21:19 Operator: LF
Sample : 0.1ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:56 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2750	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1446	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	2979	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3352	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	2701	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	64	0.93191 ppb		0.00
Spiked Amount 2.000			Recovery	= 46.600%		
7) Surrogate Recovery (FBP)	7.42	172	132	0.12001 ppb		0.00
Spiked Amount 2.000			Recovery	= 6.000%		
17) Surrogate Recovery (TPH)	11.77	244	182	0.15071 ppb		0.00
Spiked Amount 2.000			Recovery	= 7.550%		
Target Compounds						Qvalue
3) Naphthalene	6.19	128	198	0.12596 ppb		96
4) 2-Methylnaphthalene	6.99	142	128	0.14277 ppb		93
5) 1-Methylnaphthalene	7.10	142	118	0.11218 ppb		91
8) Acenaphthylene	8.01	152	174	0.12695 ppb		97
9) Acenaphthene	8.22	154	98	0.11945 ppb		96
10) Fluorene	8.82	166	122	0.12565 ppb		95
12) Phenanthrene	9.92	178	195	0.13124 ppb	#	89
13) Anthracene	9.98	178	166	0.12544 ppb		97
14) Fluoranthene	11.30	202	267	0.11122 ppb	#	96
16) Pyrene	11.56	202	267	0.14691 ppb	#	94
18) Benz (a) anthracene	12.95	228	243	0.15700 ppb		95
19) Chrysene	12.98	228	214	0.12472 ppb	#	91
20) Indeno (1,2,3-cd) pyrene	16.03	276	154	0.11147 ppb	#	98
22) Benzo (b) fluoranthene	14.13	252	207	0.15054 ppb		97
23) Benzo (k) fluoranthene	14.15	252	187	0.10870 ppb	#	87
24) Benzo (a) pyrene	14.50	252	188	0.13570 ppb		98
25) Dibenz (a,h) anthracene	16.06	278	149	0.12831 ppb	#	93
26) Benzo (g,h,i) perylene	16.45	276	179	0.14546 ppb		95

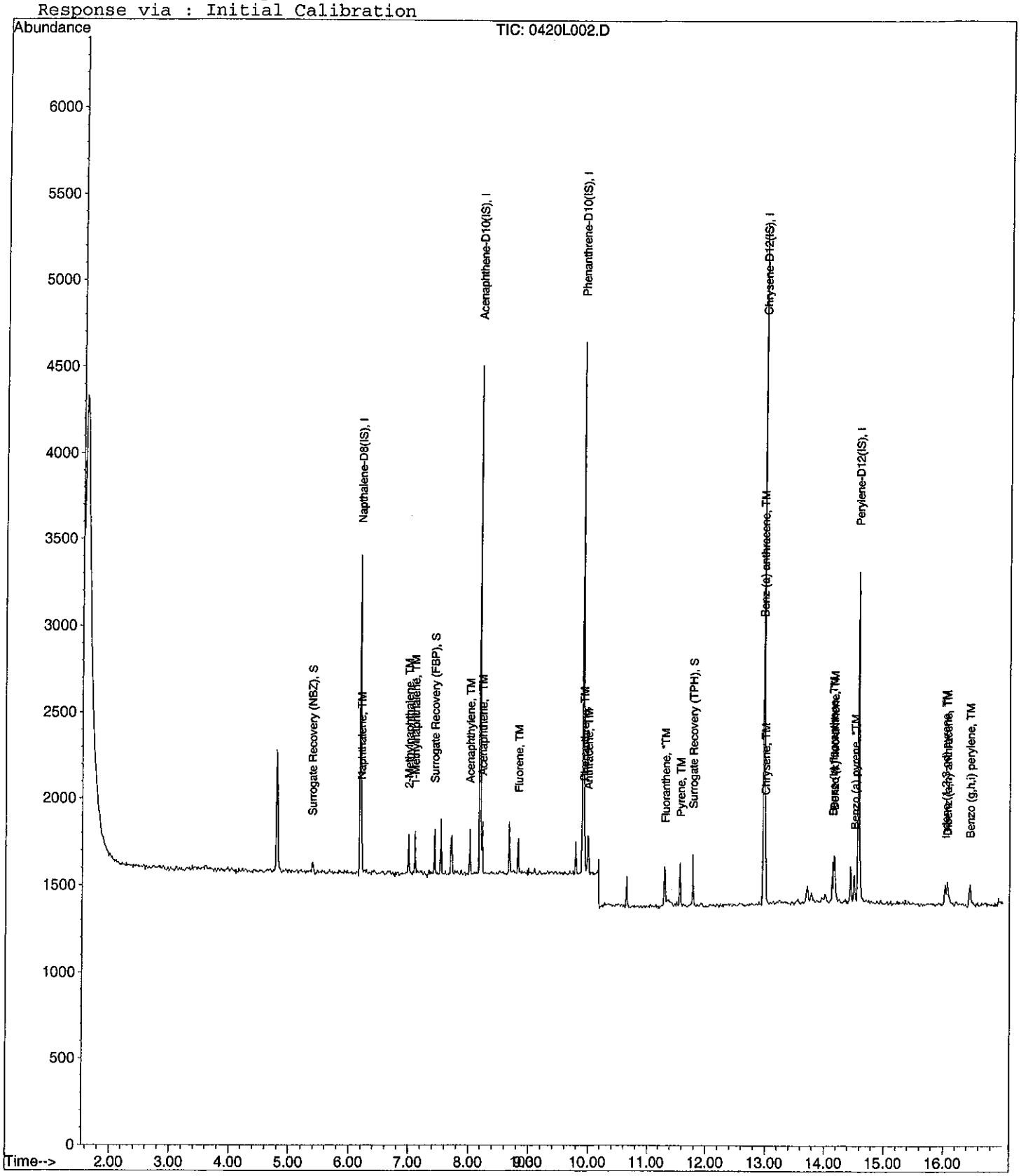
Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L002.D
Acq On : 20 Apr 11 21:19
Sample : 0.1ug/ml PAH 04-20-11
Misc :

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

Quant Time: Apr 21 7:56 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L003.D Vial: 3
Acq On : 20 Apr 11 21:44 Operator: LF
Sample : 0.2ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:59 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2832	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.18	164	1625	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	2989	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3591	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	2896	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	110	1.01911 ppb		0.00
Spiked Amount 2.000			Recovery	= 50.950%		
7) Surrogate Recovery (FBP)	7.42	172	294	0.23785 ppb		0.00
Spiked Amount 2.000			Recovery	= 11.900%		
17) Surrogate Recovery (TPH)	11.77	244	365	0.28213 ppb		0.00
Spiked Amount 2.000			Recovery	= 14.100%		
Target Compounds						Qvalue
3) Naphthalene	6.19	128	390	0.24092 ppb		98
4) 2-Methylnaphthalene	6.99	142	249	0.26970 ppb		96
5) 1-Methylnaphthalene	7.10	142	257	0.23725 ppb		98
8) Acenaphthylene	8.01	152	382	0.24800 ppb		99
9) Acenaphthene	8.22	154	214	0.23211 ppb		93
10) Fluorene	8.82	166	264	0.24195 ppb		95
12) Phenanthrene	9.92	178	411	0.27569 ppb		98
13) Anthracene	9.98	178	391	0.29447 ppb		99
14) Fluoranthene	11.29	202	552	0.22918 ppb	#	73
16) Pyrene	11.56	202	586	0.30098 ppb		97
18) Benz (a) anthracene	12.95	228	500	0.30155 ppb		98
19) Chrysene	13.00	228	434	0.23610 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.03	276	310	0.20945 ppb	#	100
22) Benzo (b) fluoranthene	14.13	252	431	0.29234 ppb	#	97
23) Benzo (k) fluoranthene	14.16	252	435	0.23583 ppb		98
24) Benzo (a) pyrene	14.50	252	382	0.25717 ppb		97
25) Dibenz (a,h) anthracene	16.06	278	319	0.25621 ppb	#	95
26) Benzo (g,h,i) perylene	16.45	276	323	0.24480 ppb	#	89

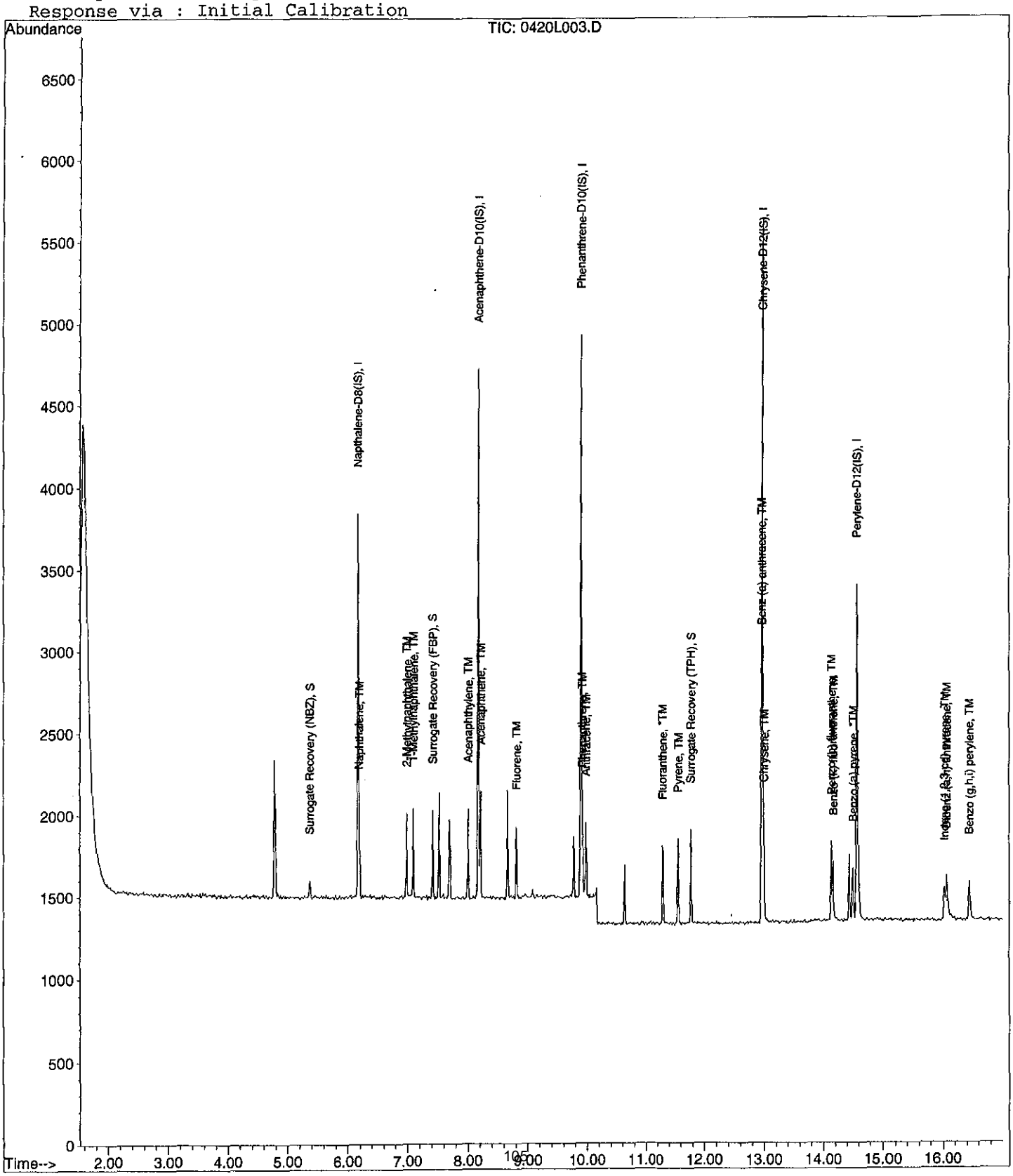
(#) = qualifier out of range (m) = manual integration
0420L003.D SIM2.M Fri Apr 22 15:15:23 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L003.D Vial: 3
Acq On : 20 Apr 11 21:44 Operator: LF
Sample : 0.2ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:59 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L004.D
Acq On : 20 Apr 11 22:10
Sample : 0.5ug/ml PAH
Misc :

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

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.17	136	3011	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.18	164	1656	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	3295	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3783	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	3007	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	181	1.13824 ppb		0.00
Spiked Amount 2.000			Recovery = 56.900%			
7) Surrogate Recovery (FBP)	7.42	172	720	0.57158 ppb		0.00
Spiked Amount 2.000			Recovery = 28.600%			
17) Surrogate Recovery (TPH)	11.77	244	941	0.69045 ppb		0.00
Spiked Amount 2.000			Recovery = 34.500%			
Target Compounds						Qvalue
3) Naphthalene	6.19	128	1016	0.59031 ppb		99
4) 2-Methylnaphthalene	6.99	142	680	0.69274 ppb		99
5) 1-Methylnaphthalene	7.10	142	641	0.55655 ppb		100
8) Acenaphthylene	8.01	152	989	0.63005 ppb		100
9) Acenaphthene	8.22	154	585	0.62263 ppb		99
10) Fluorene	8.82	166	680	0.61155 ppb		99
12) Phenanthrene	9.93	178	1060	0.64499 ppb		99
13) Anthracene	9.98	178	848	0.57933 ppb		99
14) Fluoranthene	11.30	202	1435	0.54045 ppb		98
16) Pyrene	11.56	202	1536	0.74888 ppb		99
18) Benz (a) anthracene	12.95	228	1305	0.74709 ppb		97
19) Chrysene	12.98	228	1163	0.60057 ppb	#	90
20) Indeno (1,2,3-cd) pyrene	16.02	276	1045	0.67023 ppb	#	87
22) Benzo (b) fluoranthene	14.13	252	1177	0.76887 ppb	#	96
23) Benzo (k) fluoranthene	14.15	252	1142	0.59627 ppb	#	94
24) Benzo (a) pyrene	14.50	252	963	0.62439 ppb		98
25) Dibenz (a,h) anthracene	16.06	278	830	0.64202 ppb	#	96
26) Benzo (g,h,i) perylene	16.45	276	916	0.66862 ppb		95

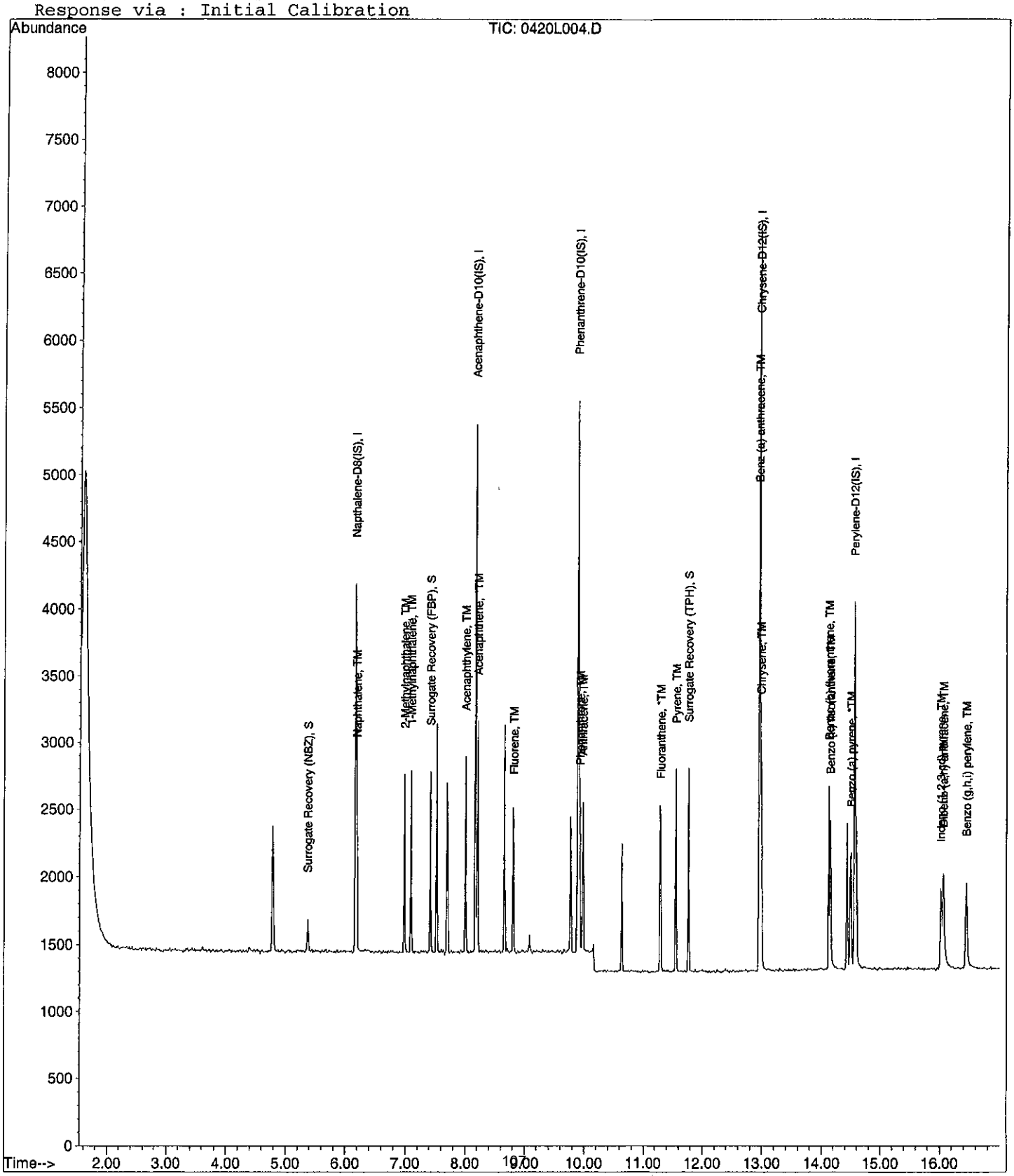
(#) = qualifier out of range (m) = manual integration
0420L004.D SIM2.M Fri Apr 22 15:15:25 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L004.D Vial: 4
Acq On : 20 Apr 11 22:10 Operator: LF
Sample : 0.5ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L005.D Vial: 5
Acq On : 20 Apr 11 22:35 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.17	136	3066	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.18	164	1685	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	3423	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3982	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	3191	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	338	1.41900 ppb		0.00
Spiked Amount 2.000			Recovery = 70.950%			
7) Surrogate Recovery (FBP)	7.42	172	1440	1.12348 ppb		0.00
Spiked Amount 2.000			Recovery = 56.150%			
17) Surrogate Recovery (TPH)	11.77	244	1896	1.32165 ppb		0.00
Spiked Amount 2.000			Recovery = 66.100%			
Target Compounds						Qvalue
3) Naphthalene	6.19	128	1971	1.12463 ppb		99
4) 2-Methylnaphthalene	6.99	142	1314	1.31460 ppb		99
5) 1-Methylnaphthalene	7.10	142	1270	1.08291 ppb		98
8) Acenaphthylene	8.01	152	1918	1.20085 ppb		100
9) Acenaphthene	8.22	154	1110	1.16107 ppb		99
10) Fluorene	8.82	166	1319	1.16580 ppb		100
12) Phenanthrene	9.92	178	2083	1.22006 ppb		96
13) Anthracene	9.98	178	1686	1.10876 ppb		100
14) Fluoranthene	11.29	202	2944	1.06731 ppb	#	77
16) Pyrene	11.56	202	3033	1.40485 ppb		98
18) Benz (a) anthracene	12.95	228	2674	1.45432 ppb		98
19) Chrysene	13.00	228	2393	1.17398 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.03	276	1657	1.00964 ppb	#	96
22) Benzo (b) fluoranthene	14.13	252	2327	1.43244 ppb		98
23) Benzo (k) fluoranthene	14.15	252	2269	1.11639 ppb	#	94
24) Benzo (a) pyrene	14.50	252	2070	1.26475 ppb		97
25) Dibenz (a,h) anthracene	16.07	278	1709	1.24572 ppb	#	94
26) Benzo (g,h,i) perylene	16.45	276	1888	1.29865 ppb		95

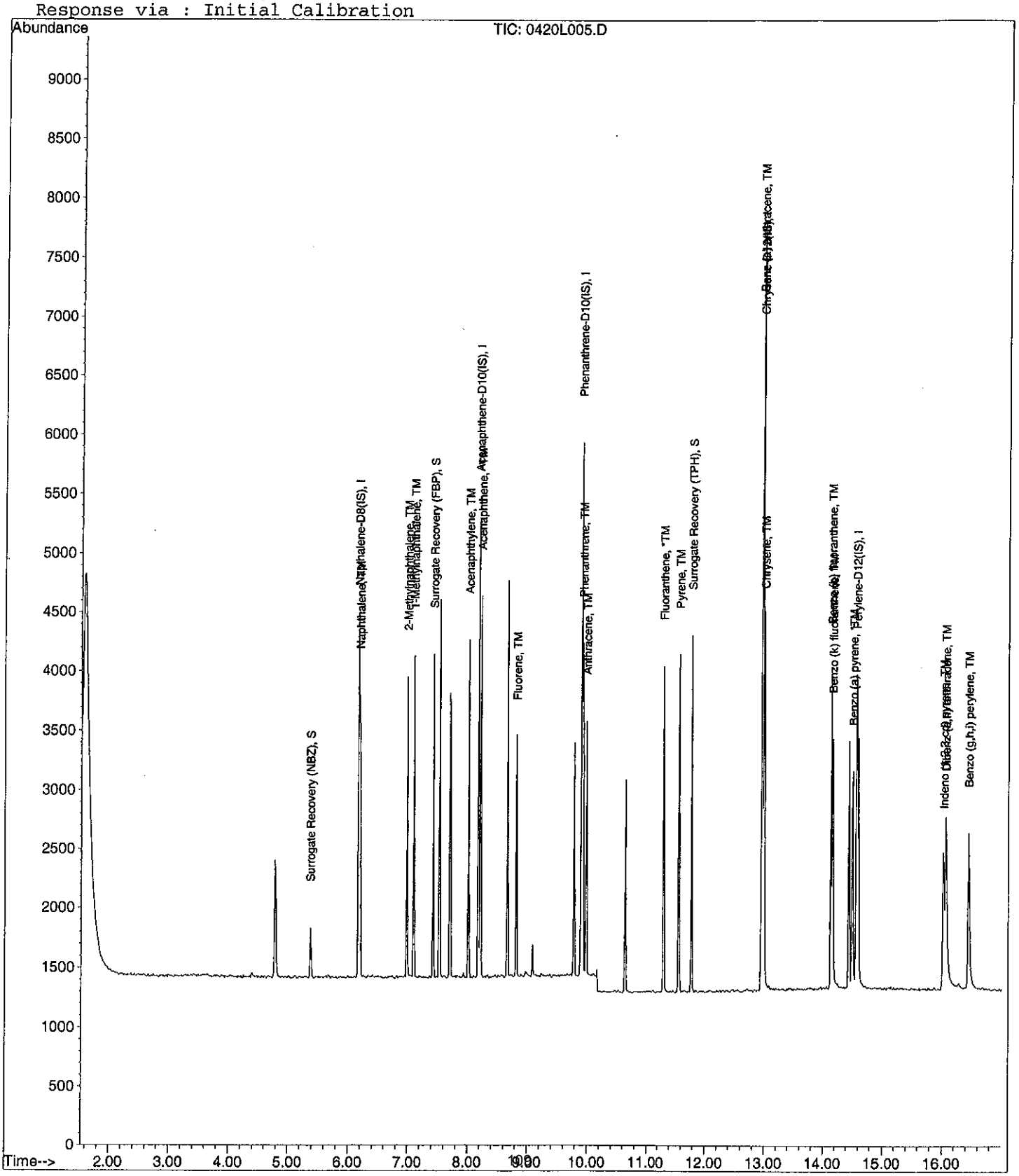
(#) = qualifier out of range (m) = manual integration
0420L005.D SIM2.M Fri Apr 22 15:15:26 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L005.D Vial: 5
Acq On : 20 Apr 11 22:35 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L006.D Vial: 6
Acq On : 20 Apr 11 23:01 Operator: LF
Sample : 5.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:00 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

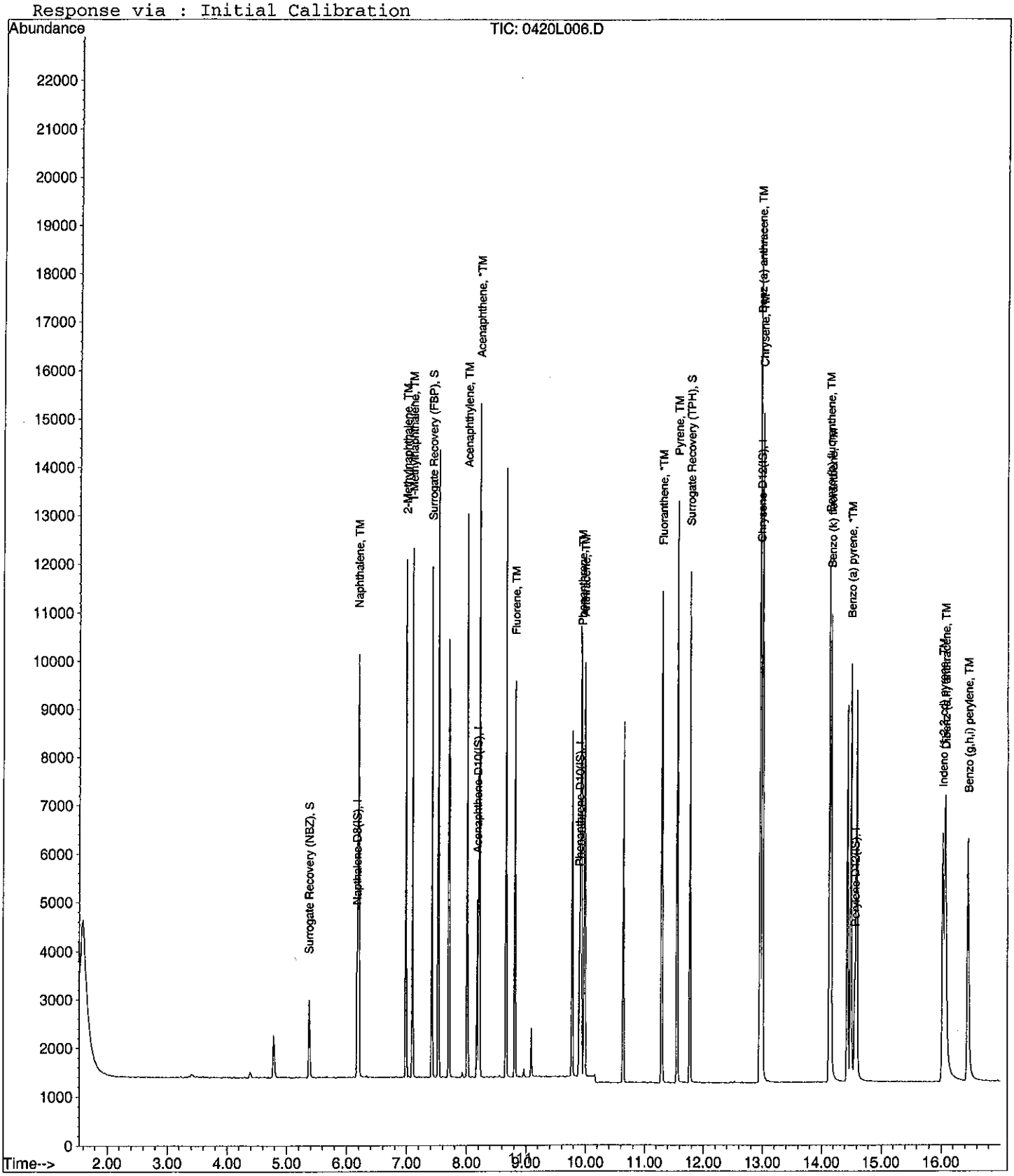
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2790	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.18	164	1524	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.90	188	2709	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.96	240	3273	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	2558	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.37	82	1341	3.49355 ppb	0.00
Spiked Amount 2.000			Recovery	= 174.700%	
7) Surrogate Recovery (FBP)	7.42	172	5488	4.73402 ppb	0.00
Spiked Amount 2.000			Recovery	= 236.700%	
17) Surrogate Recovery (TPH)	11.77	244	7213	6.11714 ppb	0.00
Spiked Amount 2.000			Recovery	= 305.850%	
Target Compounds					Qvalue
3) Naphthalene	6.19	128	7737	4.85135 ppb	100
4) 2-Methylnaphthalene	6.99	142	5291	5.81705 ppb	100
5) 1-Methylnaphthalene	7.10	142	5047	4.72921 ppb	100
8) Acenaphthylene	8.01	152	7691	5.32400 ppb	100
9) Acenaphthene	8.22	154	4524	5.23207 ppb	100
10) Fluorene	8.82	166	5261	5.14120 ppb	100
12) Phenanthrene	9.93	178	8054	5.96078 ppb	100
13) Anthracene	9.98	178	6890	5.72527 ppb	100
14) Fluoranthene	11.30	202	11331	5.19063 ppb	100
16) Pyrene	11.56	202	11712	6.60000 ppb	100
18) Benz (a) anthracene	12.95	228	10269	6.79490 ppb	100
19) Chrysene	13.00	228	9441	5.63498 ppb	100
20) Indeno (1,2,3-cd) pyrene	16.03	276	6555	4.85927 ppb	100
22) Benzo (b) fluoranthene	14.13	252	8792	6.75142 ppb	100
23) Benzo (k) fluoranthene	14.16	252	9484	5.82101 ppb	100
24) Benzo (a) pyrene	14.50	252	8298	6.32459 ppb	100
25) Dibenz (a,h) anthracene	16.08	278	6755	6.14230 ppb	100
26) Benzo (g,h,i) perylene	16.46	276	7423	6.36935 ppb	100

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L006.D Vial: 6
Acq On : 20 Apr 11 23:01 Operator: LF
Sample : 5.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:00 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L007.D
Acq On : 20 Apr 11 23:27
Sample : 10ug/ml PAH
Misc :

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

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

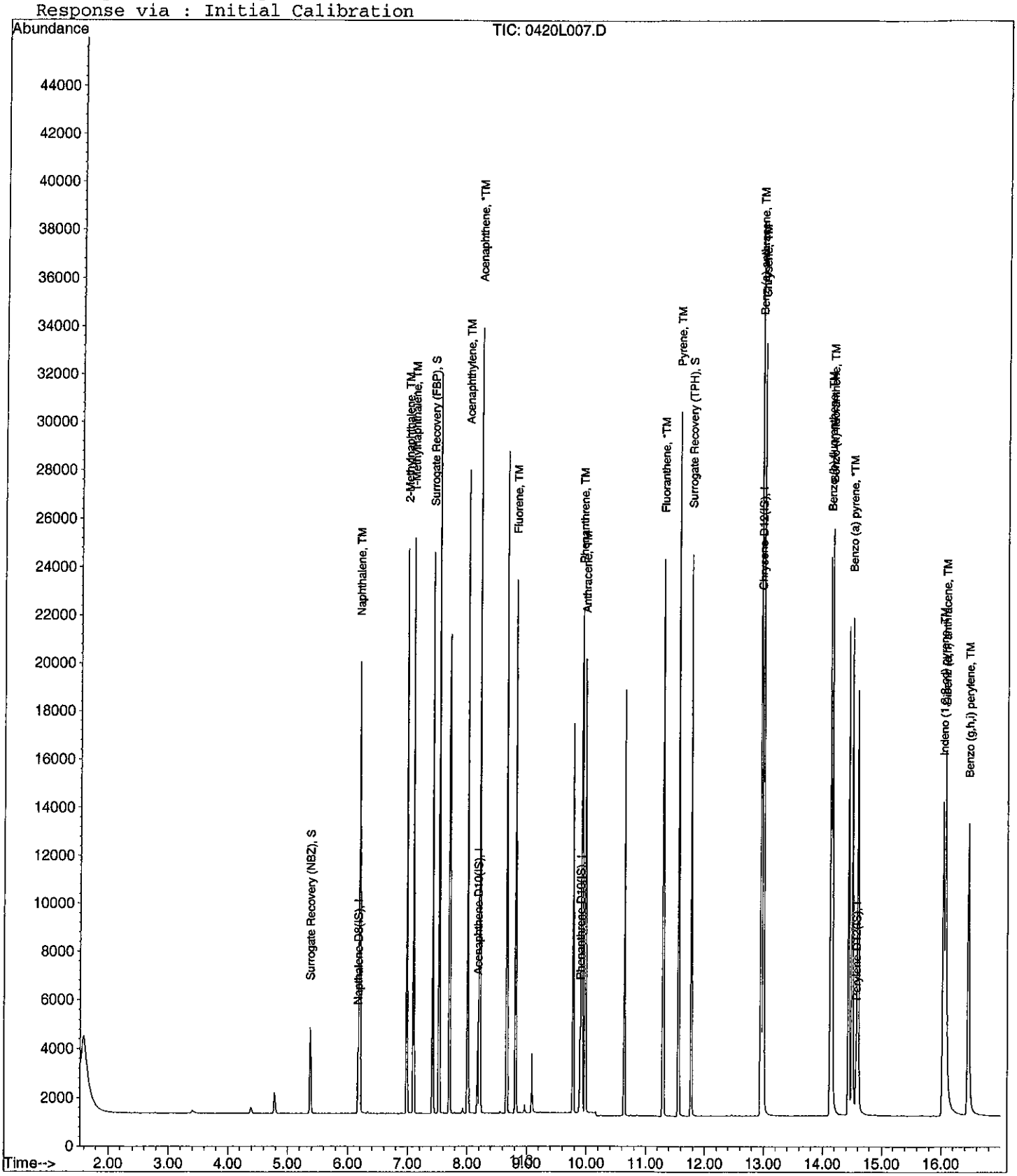
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2769	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.18	164	1507	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.90	188	2912	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.96	240	3578	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	2756	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.37	82	2993	6.85542 ppb	0.00
Spiked Amount 2.000			Recovery = 342.750%		
7) Surrogate Recovery (FBP)	7.42	172	11986	10.45592 ppb	0.00
Spiked Amount 2.000			Recovery = 522.800%		
17) Surrogate Recovery (TPH)	11.77	244	16134	12.51641 ppb	0.00
Spiked Amount 2.000			Recovery = 625.800%		
Target Compounds					Qvalue
3) Naphthalene	6.19	128	17043	10.76756 ppb	100
4) 2-Methylnaphthalene	6.99	142	11865	13.14360 ppb	99
5) 1-Methylnaphthalene	7.10	142	11371	10.73581 ppb	99
8) Acenaphthylene	8.01	152	17625	12.33833 ppb	99
9) Acenaphthene	8.22	154	10131	11.84881 ppb	97
10) Fluorene	8.82	166	12146	12.00331 ppb	97
12) Phenanthrene	9.93	178	17781	12.24236 ppb	99
13) Anthracene	9.98	178	15088	11.66342 ppb	99
14) Fluoranthene	11.30	202	25519	10.87509 ppb	100
16) Pyrene	11.56	202	26680	13.75321 ppb	100
18) Benz (a) anthracene	12.95	228	22906	13.86467 ppb	99
19) Chrysene	13.00	228	21271	11.61363 ppb	100
20) Indeno (1,2,3-cd) pyrene	16.03	276	16828	11.41132 ppb	94
22) Benzo (b) fluoranthene	14.13	252	25117	17.90180 ppb	98
23) Benzo (k) fluoranthene	14.16	252	17323	9.86849 ppb	99
24) Benzo (a) pyrene	14.50	252	19179	13.56771 ppb	99
25) Dibenz (a,h) anthracene	16.08	278	16880	14.24622 ppb	99
26) Benzo (g,h,i) perylene	16.46	276	17374	13.83684 ppb	97

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L007.D Vial: 7
Acq On : 20 Apr 11 23:27 Operator: LF
Sample : 10ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L008.D
Acq On : 20 Apr 11 23:52
Sample : 50ug/ml PAH
Misc :

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

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2619	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1461	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2706	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	3281	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.57	264	2626	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	14429	31.65824 ppb		0.01
Spiked Amount 2.000			Recovery = 1582.900%			
7) Surrogate Recovery (FBP)	7.42	172	45452	40.89818 ppb		0.00
Spiked Amount 2.000			Recovery = 2044.900%			
17) Surrogate Recovery (TPH)	11.78	244	61204	51.77877 ppb		0.01
Spiked Amount 2.000			Recovery = 2588.950%			
Target Compounds						Qvalue
3) Naphthalene	6.20	128	66602	44.48830 ppb		97
4) 2-Methylnaphthalene	6.99	142	45324	53.08384 ppb		99
5) 1-Methylnaphthalene	7.10	142	42121	42.04578 ppb		98
8) Acenaphthylene	8.01	152	65610	47.37621 ppb		98
9) Acenaphthene	8.22	154	37925	45.75211 ppb		95
10) Fluorene	8.82	166	46744	47.64930 ppb		95
12) Phenanthrene	9.93	178	67803	50.23672 ppb		98
13) Anthracene	9.99	178	58810	48.92254 ppb		98
14) Fluoranthene	11.30	202	97789	44.84590 ppb	#	91
16) Pyrene	11.56	202	99166	55.74620 ppb	#	90
18) Benz (a) anthracene	12.96	228	89321	58.95873 ppb		95
19) Chrysene	13.00	228	81106	48.29111 ppb	#	94
20) Indeno (1,2,3-cd) pyrene	16.04	276	71595	52.94444 ppb	#	85
22) Benzo (b) fluoranthene	14.14	252	85119	63.67074 ppb	#	97
23) Benzo (k) fluoranthene	14.17	252	77135	46.11729 ppb	#	97
24) Benzo (a) pyrene	14.51	252	75395	55.97673 ppb		98
25) Dibenz (a,h) anthracene	16.09	278	71307	63.16027 ppb		97
26) Benzo (g,h,i) perylene	16.48	276	71255	59.55756 ppb		97

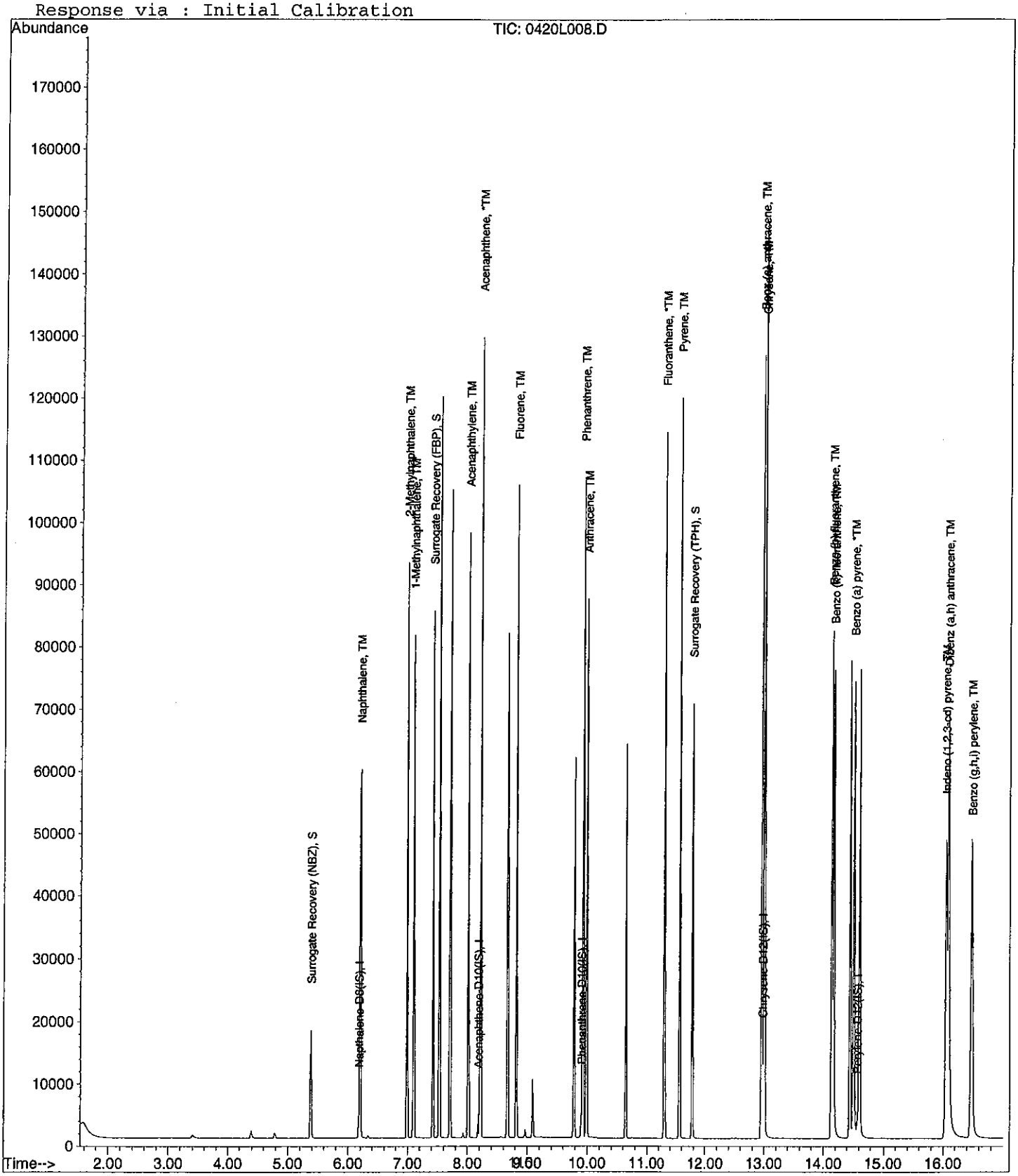
(#) = qualifier out of range (m) = manual integration
0420L008.D SIM2.M Fri Apr 22 15:15:31 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L008.D Vial: 8
Acq On : 20 Apr 11 23:52 Operator: LF
Sample : 50ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L009.D Vial: 9
Acq On : 21 Apr 11 00:18 Operator: LF
Sample : 100ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2444	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1291	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2528	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	3267	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	2538	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	29768	69.01924 ppb		0.01
Spiked Amount 2.000			Recovery	= 3450.950%		
7) Surrogate Recovery (FBP)	7.42	172	79340	80.79178 ppb		0.00
Spiked Amount 2.000			Recovery	= 4039.600%		
17) Surrogate Recovery (TPH)	11.78	244	108916	92.53813 ppb		0.01
Spiked Amount 2.000			Recovery	= 4626.900%		
Target Compounds						Qvalue
3) Naphthalene	6.20	128	122757	87.86969 ppb		98
4) 2-Methylnaphthalene	6.99	142	79622	99.93128 ppb		97
5) 1-Methylnaphthalene	7.10	142	73299	78.40723 ppb		97
8) Acenaphthylene	8.01	152	116577	95.26364 ppb		98
9) Acenaphthene	8.22	154	65819	89.85884 ppb		91
10) Fluorene	8.82	166	79247	91.41921 ppb		93
12) Phenanthrene	9.93	178	116627	92.49584 ppb		97
13) Anthracene	9.99	178	100235	89.25404 ppb		99
14) Fluoranthene	11.30	202	171669	84.27046 ppb	#	81
16) Pyrene	11.57	202	183086	103.36291 ppb	#	94
18) Benz (a) anthracene	12.96	228	163204	108.18883 ppb		98
19) Chrysene	13.01	228	146416	87.55074 ppb		98
20) Indeno (1,2,3-cd) pyrene	16.06	276	135700	100.78006 ppb	#	100
22) Benzo (b) fluoranthene	14.14	252	172982	133.88053 ppb		98
23) Benzo (k) fluoranthene	14.17	252	117353	72.59548 ppb	#	96
24) Benzo (a) pyrene	14.52	252	137988	106.00087 ppb	#	96
25) Dibenz (a,h) anthracene	16.10	278	134639	123.39165 ppb	#	94
26) Benzo (g,h,i) perylene	16.50	276	135242	116.95971 ppb	#	93

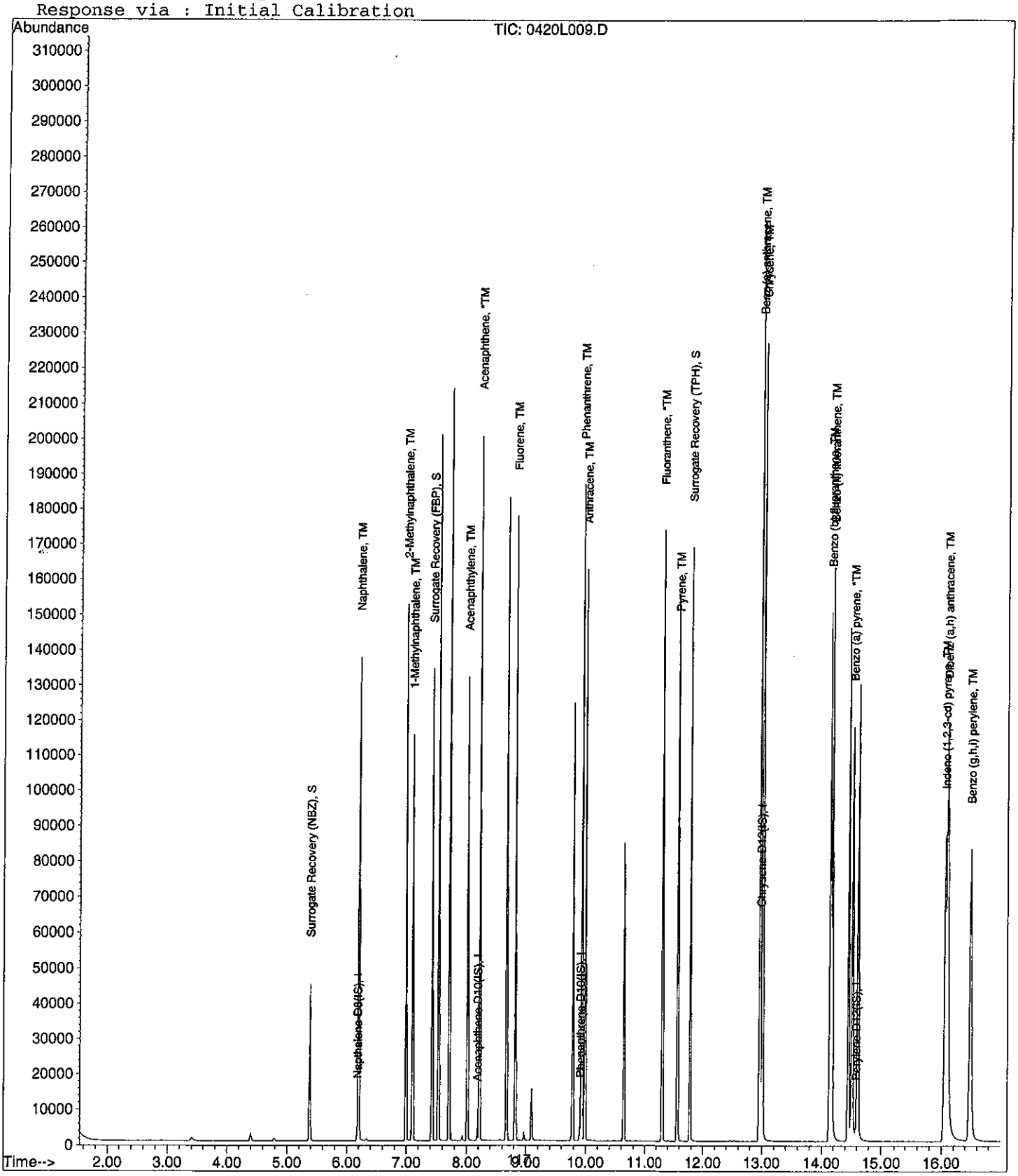
(#) = qualifier out of range (m) = manual integration
0420L009.D SIM2.M Fri Apr 22 15:15:33 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L009.D Vial: 9
Acq On : 21 Apr 11 00:18 Operator: LF
Sample : 100ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Form 7

Second Source Calibration

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

SDG No: 64489
Date Analyzed: 04/21/11
Instrument: Linus
Initial Cal. Date: 04/20/11
Data File: 0420L010.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	1.534	1.383	9.8	TM	
3	TM	2-Methylnaphthalene	1.020	0.9392	7.9	TM	
4	TM	1-Methylnaphthalene	0.9740	0.8971	7.9	TM	
5	I	Acenaphthene-D10(IS)	ISTD			I	
6	TM	Acenaphthylene	2.716	2.677	1.4	TM	
7	*TM	Acenaphthene	1.561	1.533	1.8	*TM	
8	TM	Fluorene	1.878	1.836	2.2	TM	
9	I	Phenanthrene-D10(IS)	ISTD			I	
10	TM	Phenanthrene	1.488	1.475	0.87	TM	
11	TM	Anthracene	1.274	1.205	5.4	TM	
12	*TM	Fluoranthene	2.083	2.039	2.1	*TM	
13	I	Chrysene-D12(IS)	ISTD			I	
14	TM	Pyrene	1.816	1.779	2.1	TM	
15	TM	Benz (a) anthracene	1.592	1.520	4.5	TM	
16	TM	Chrysene	1.429	1.414	1.0	TM	
17	TM	Indeno (1,2,3-cd) pyrene	1.119	1.044	6.7	TM	
18	I	Perylene-D12(IS)	ISTD			I	
19	TM	Benzo (b) fluoranthene	1.860	1.719	7.6	TM	
20	TM	Benzo (k) fluoranthene	1.667	1.897	14	TM	
21	*TM	Benzo (a) pyrene	1.596	1.612	1.0	*TM	
22	TM	Dibenz (a,h) anthracene	1.376	1.373	0.22	TM	
23	TM	Benzo (g,h,i) perylene	1.471	1.452	1.3	TM	
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.3		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L010.D
Acq On : 21 Apr 11 00:43
Sample : 5.0ug/ml PAH SS 04-11-11
Misc :

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

Quant Time: Apr 21 8:03 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

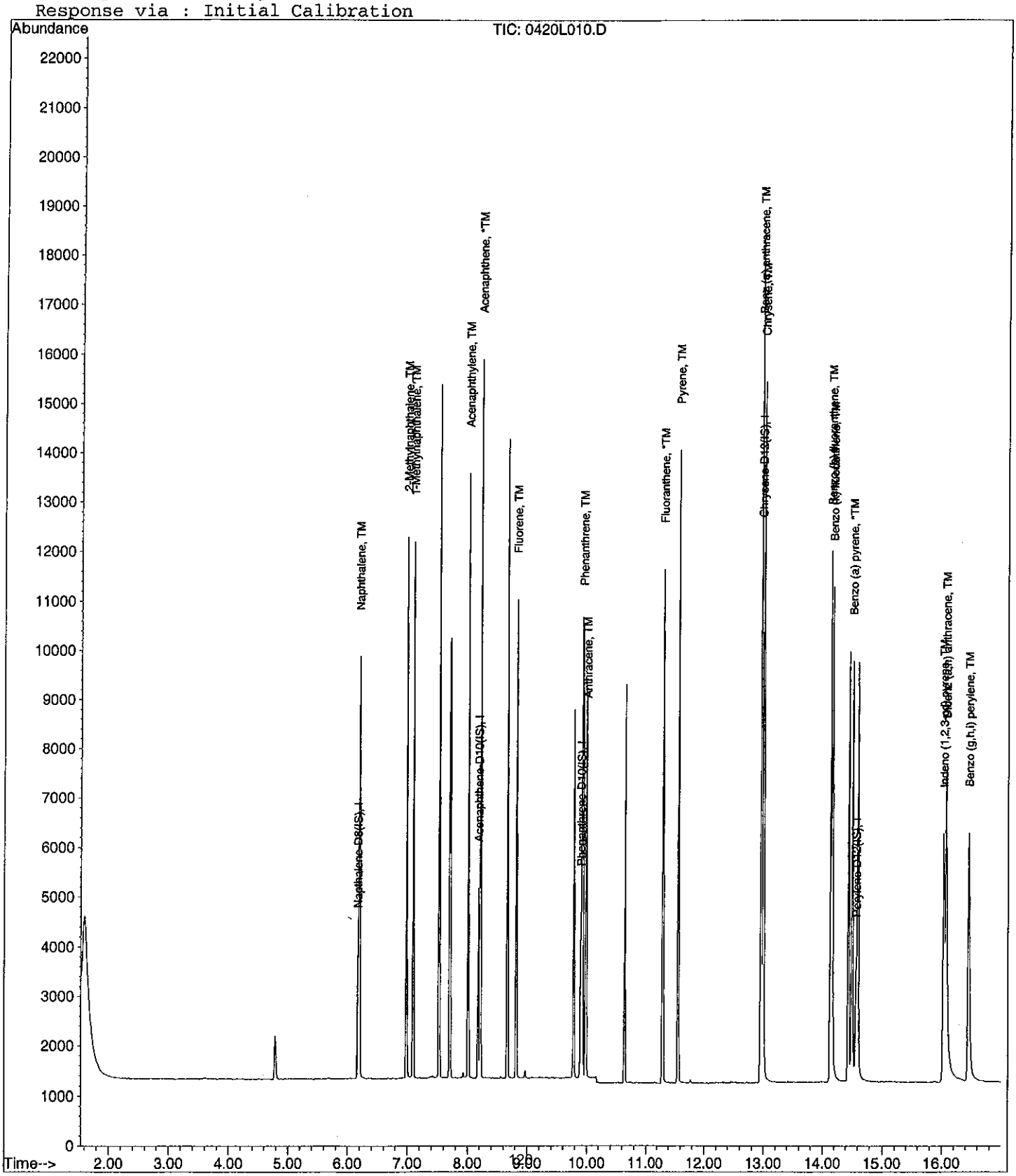
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2897	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.18	164	1519	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.90	188	2825	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.96	240	3364	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	2611	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.60610 ppb	
Spiked Amount 2.000			Recovery =	30.300%	
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	6.19	128	8015	4.51029 ppb	100
4) 2-Methylnaphthalene	6.99	142	5442	4.60274 ppb	100
5) 1-Methylnaphthalene	7.10	142	5198	4.60535 ppb	99
8) Acenaphthylene	8.01	152	8132	4.92763 ppb	100
9) Acenaphthene	8.22	154	4657	4.90884 ppb	98
10) Fluorene	8.82	166	5579	4.88878 ppb	99
12) Phenanthrene	9.93	178	8334	4.95633 ppb	99
13) Anthracene	9.99	178	6810	4.73072 ppb	97
14) Fluoranthene	11.30	202	11518	4.89349 ppb	99
16) Pyrene	11.56	202	11969	4.89704 ppb	100
18) Benz (a) anthracene	12.95	228	10225	4.77324 ppb	99
19) Chrysene	13.00	228	9515	4.94869 ppb	100
20) Indeno (1,2,3-cd) pyrene	16.03	276	7026	4.66422 ppb #	92
22) Benzo (b) fluoranthene	14.13	252	8978	4.62229 ppb	99
23) Benzo (k) fluoranthene	14.16	252	9906	5.69029 ppb	99
24) Benzo (a) pyrene	14.50	252	8418	5.05004 ppb	99
25) Dibenz (a,h) anthracene	16.08	278	7171	4.98877 ppb	99
26) Benzo (g,h,i) perylene	16.46	276	7582	4.93474 ppb	98

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L010.D Vial: 10
Acq On : 21 Apr 11 00:43 Operator: LF
Sample : 5.0ug/ml PAH SS 04-11-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:03 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Form 7

Continuing Calibration

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

SDG No: 64484
Date Analyzed: 4 May 11 17:30
Instrument: Linus
Initial Cal. Date: 04/20/11
Data File: 0504L002.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	SL	Surrogate Recovery (NBZ)	0.3418	0.3159	7.6	SL	17
3	TM	Naphthalene	1.534	1.514	1.3	TM	
4	TM	2-Methylnaphthalene	1.020	0.9938	2.6	TM	
5	TM	1-Methylnaphthalene	0.9740	0.9310	4.4	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	S	Surrogate Recovery (FBP)	1.967	1.686	14	S	
8	TM	Acenaphthylene	2.716	2.321	15	TM	
9	*TM	Acenaphthene	1.561	1.388	11	*TM	
10	TM	Fluorene	1.878	1.680	11	TM	
11	I	Phenanthrene-D10(IS)	ISTD			I	
12	TM	Phenanthrene	1.488	1.326	11	TM	
13	TM	Anthracene	1.274	1.084	15	TM	
14	*TM	Fluoranthene	2.083	1.708	18	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.816	1.630	10	TM	
17	S	Surrogate Recovery (TPH)	1.100	1.067	3.0	S	
18	TM	Benz (a) anthracene	1.592	1.388	13	TM	
19	TM	Chrysene	1.429	1.249	13	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.119	1.301	16	TM	
21	I	Perylene-D12(IS)	ISTD			I	
22	TM	Benzo (b) fluoranthene	1.860	1.721	7.5	TM	
23	TM	Benzo (k) fluoranthene	1.667	1.382	17	TM	
24	*TM	Benzo (a) pyrene	1.596	1.399	12	*TM	
25	TM	Dibenz (a,h) anthracene	1.376	1.241	9.9	TM	
26	TM	Benzo (g,h,i) perylene	1.471	1.266	14	TM	
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			10.8		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L002.D Vial: 2
Acq On : 4 May 11 17:30 Operator: LF
Sample : 5.0ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:07 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:05:23 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2268	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1409	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2572	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	2851	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	2385	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	1433	5.85808 ppb		0.01
Spiked Amount 2.000			Recovery	= 292.900%		
7) Surrogate Recovery (FBP)	7.42	172	4750	4.28497 ppb		0.00
Spiked Amount 2.000			Recovery	= 214.250%		
17) Surrogate Recovery (TPH)	11.78	244	6084	4.84999 ppb		0.01
Spiked Amount 2.000			Recovery	= 242.500%		
Target Compounds						Qvalue
3) Naphthalene	6.20	128	6867	4.93598 ppb		99
4) 2-Methylnaphthalene	6.99	142	4508	4.87021 ppb		95
5) 1-Methylnaphthalene	7.11	142	4223	4.77918 ppb		93
8) Acenaphthylene	8.03	152	6541	4.27299 ppb		99
9) Acenaphthene	8.22	154	3910	4.44320 ppb		92
10) Fluorene	8.82	166	4734	4.47218 ppb		93
12) Phenanthrene	9.93	178	6819	4.45426 ppb		97
13) Anthracene	9.99	178	5575	4.25375 ppb		99
14) Fluoranthene	11.30	202	8784	4.09904 ppb	#	75
16) Pyrene	11.57	202	9292	4.48584 ppb		99
18) Benz (a) anthracene	12.96	228	7913	4.35863 ppb		99
19) Chrysene	13.01	228	7122	4.37061 ppb		100
20) Indeno (1,2,3-cd) pyrene	16.06	276	7421	5.81289 ppb		97
22) Benzo (b) fluoranthene	14.14	252	8208	4.62630 ppb	#	96
23) Benzo (k) fluoranthene	14.17	252	6590	4.14420 ppb	#	98
24) Benzo (a) pyrene	14.51	252	6673	4.38254 ppb	#	97
25) Dibenz (a,h) anthracene	16.10	278	5918	4.50720 ppb		97
26) Benzo (g,h,i) perylene	16.48	276	6037	4.30150 ppb	#	93

(#) = qualifier out of range (m) = manual integration
0504L002.D SIM2.M Mon May 16 18:17:39 2011 Page 1

Quantitation Report

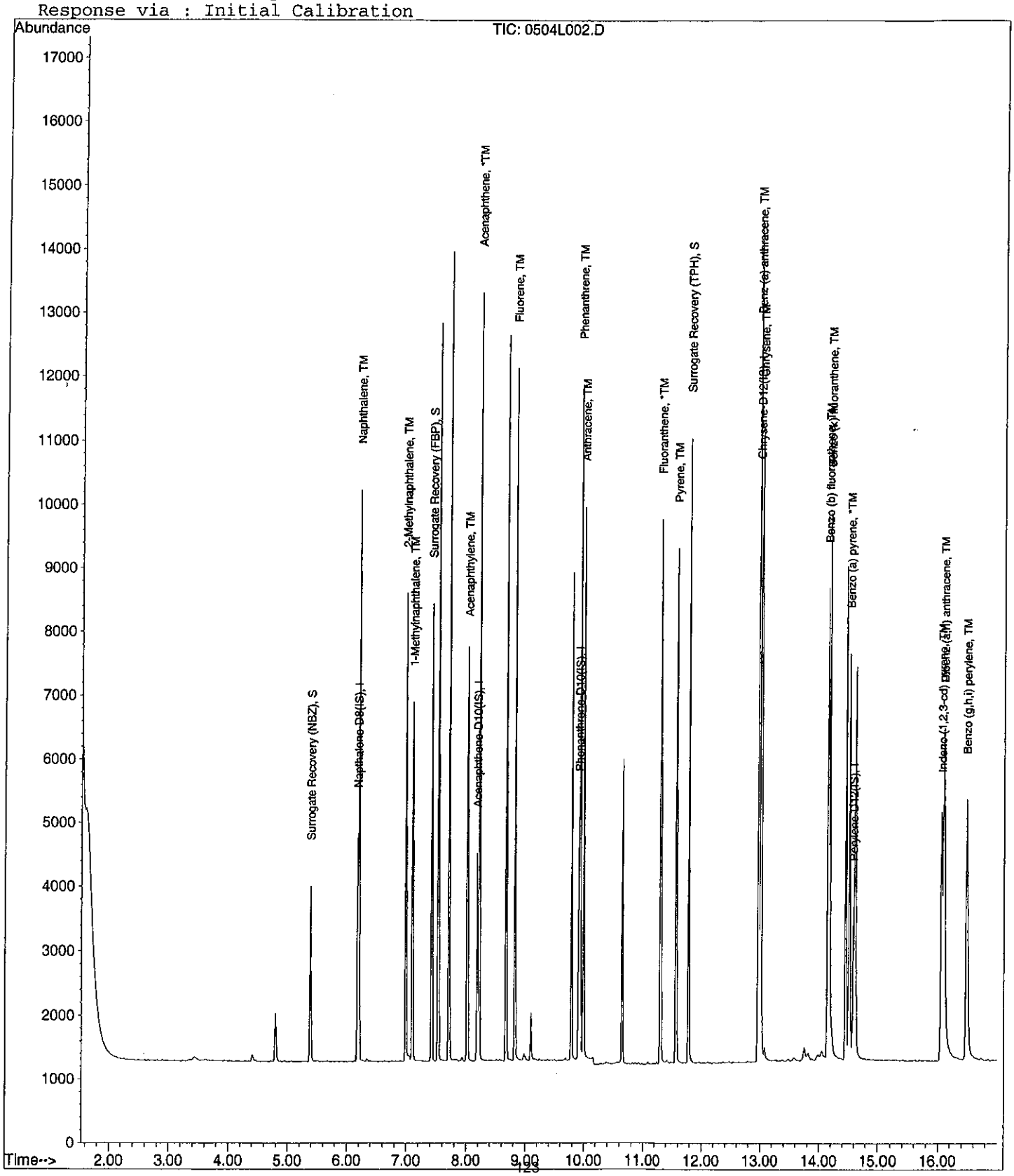
Data File : M:\LINUS\DATA\L110420\0504L002.D
Acq On : 4 May 11 17:30
Sample : 5.0ug/ml PAH 04-20-11
Misc :

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

Quant Time: May 16 17:07 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

APPL, INC.

Method Blank
EPA 8270D SIM

Blank Name/QCG: **110428W-36384 - 155153**
Batch ID: #SIMHC-110428A

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	04/28/11	05/04/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/28/11	05/04/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/28/11	05/04/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/28/11	05/04/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/28/11	05/04/11
BLANK	SURROGATE: 2-FLUORBIPHENY	51.5	50-110			%	04/28/11	05/04/11
BLANK	SURROGATE: NITROBENZENE-	89.3	40-110			%	04/28/11	05/04/11
BLANK	SURROGATE: TERPHENYL-D14 (	66.3	50-135			%	04/28/11	05/04/11

Quant Method: SIM2.M
Run #: 0504L003
Instrument: Linus
Sequence: L110420
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 6:27:14 PM

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L003.D Vial: 3
Acq On : 4 May 11 17:56 Operator: LF
Sample : 110428A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:41 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2708	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	1406	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	2692	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.97	240	2860	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.58	264	2387	2.50000 ppb	0.01
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.38	82	384	1.78480 ppb	0.01
Spiked Amount 2.000			Recovery = 89.250%		
7) Surrogate Recovery (FBP)	7.42	172	1139	1.02968 ppb	0.00
Spiked Amount 2.000			Recovery = 51.500%		
17) Surrogate Recovery (TPH)	11.78	244	1667	1.32470 ppb	0.01
Spiked Amount 2.000			Recovery = 66.250%		

Target Compounds Qvalue

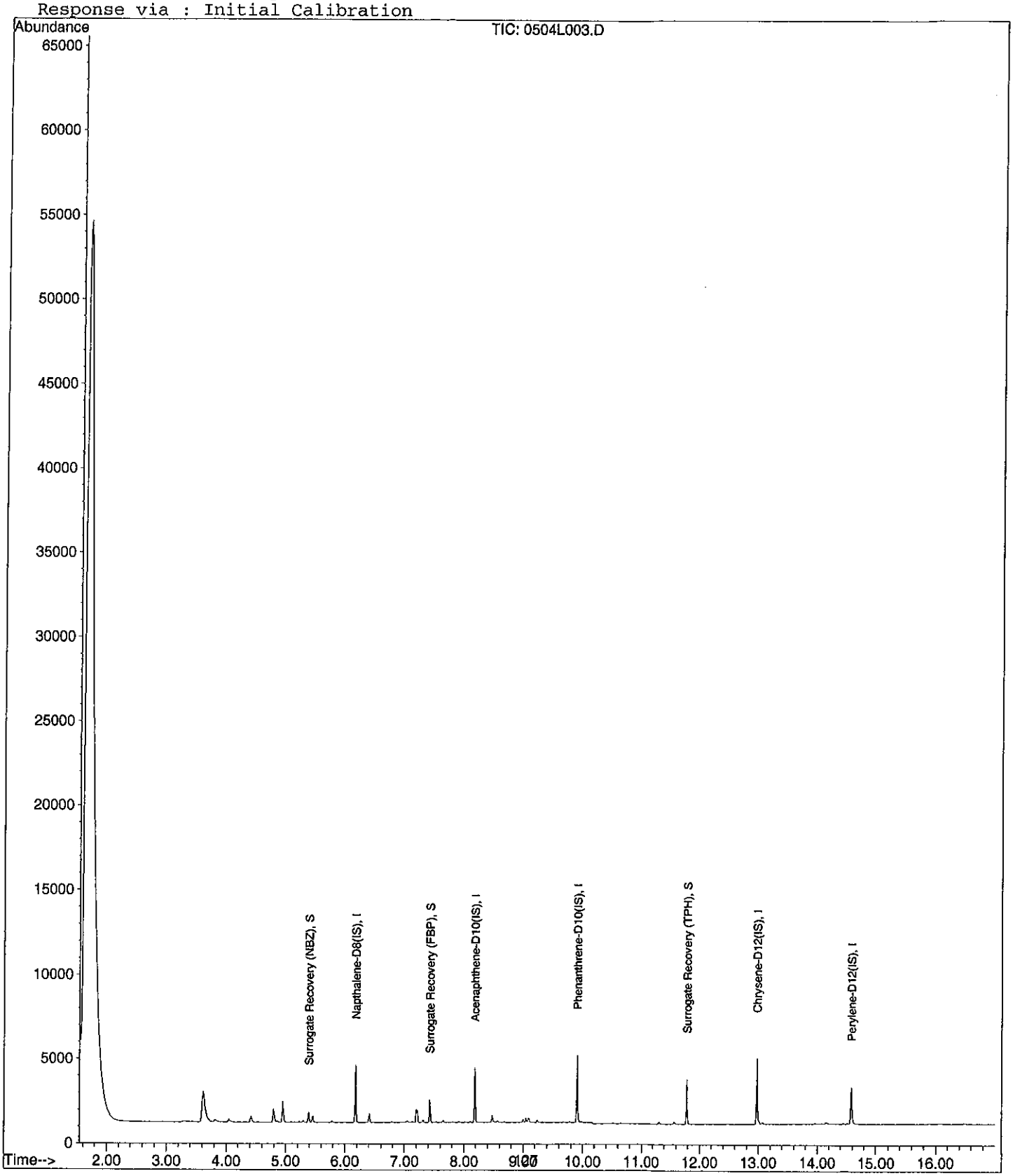
Quantitation Report

Data File : M:\LINUS\DATA\L110420\0504L003.D
Acq On : 4 May 11 17:56
Sample : 110428A BLK 1/1000
Misc :

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

Quant Time: May 16 17:41 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: **110428W-36384 LCS - 155153**
Batch ID: #SIMHC-110428A

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	2.03	50.7	45-105
2-METHYLNAPHTHALENE	4.00	2.07	51.7	45-105
ACENAPHTHENE	4.00	2.15	53.8	45-110
ACENAPHTHYLENE	4.00	2.09	52.3	50-105
ANTHRACENE	4.00	2.75	68.8	55-110
BENZO(A)ANTHRACENE	4.00	2.63	65.8	55-110
BENZO(A)PYRENE	4.00	2.77	69.3	55-110
BENZO(B)FLUORANTHENE	4.00	2.70	67.5	45-120
BENZO(GHI)PERYLENE	4.00	2.73	68.3	40-125
BENZO(K)FLUORANTHENE	4.00	2.66	66.5	45-125
CHRYSENE	4.00	2.84	71.0	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.79	69.8	40-125
FLUORANTHENE	4.00	2.46	61.5	55-115
FLUORENE	4.00	2.38	59.5	50-110
INDENO(1,2,3-CD)PYRENE	4.00	3.50	87.5	45-125
NAPHTHALENE	4.00	2.06	51.5	40-100
PHENANTHRENE	4.00	2.64	66.0	50-115
PYRENE	4.00	2.76	69.0	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.02	51.0	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.79	89.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.19	59.5	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	04/28/11
Analysis Date :	05/04/11
Instrument :	Linus
Run :	0504L004
Initials :	LF

Printed: 05/16/11 6:27:15 PM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L004.D Vial: 4
Acq On : 4 May 11 18:22 Operator: LF
Sample : 110428A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:42 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

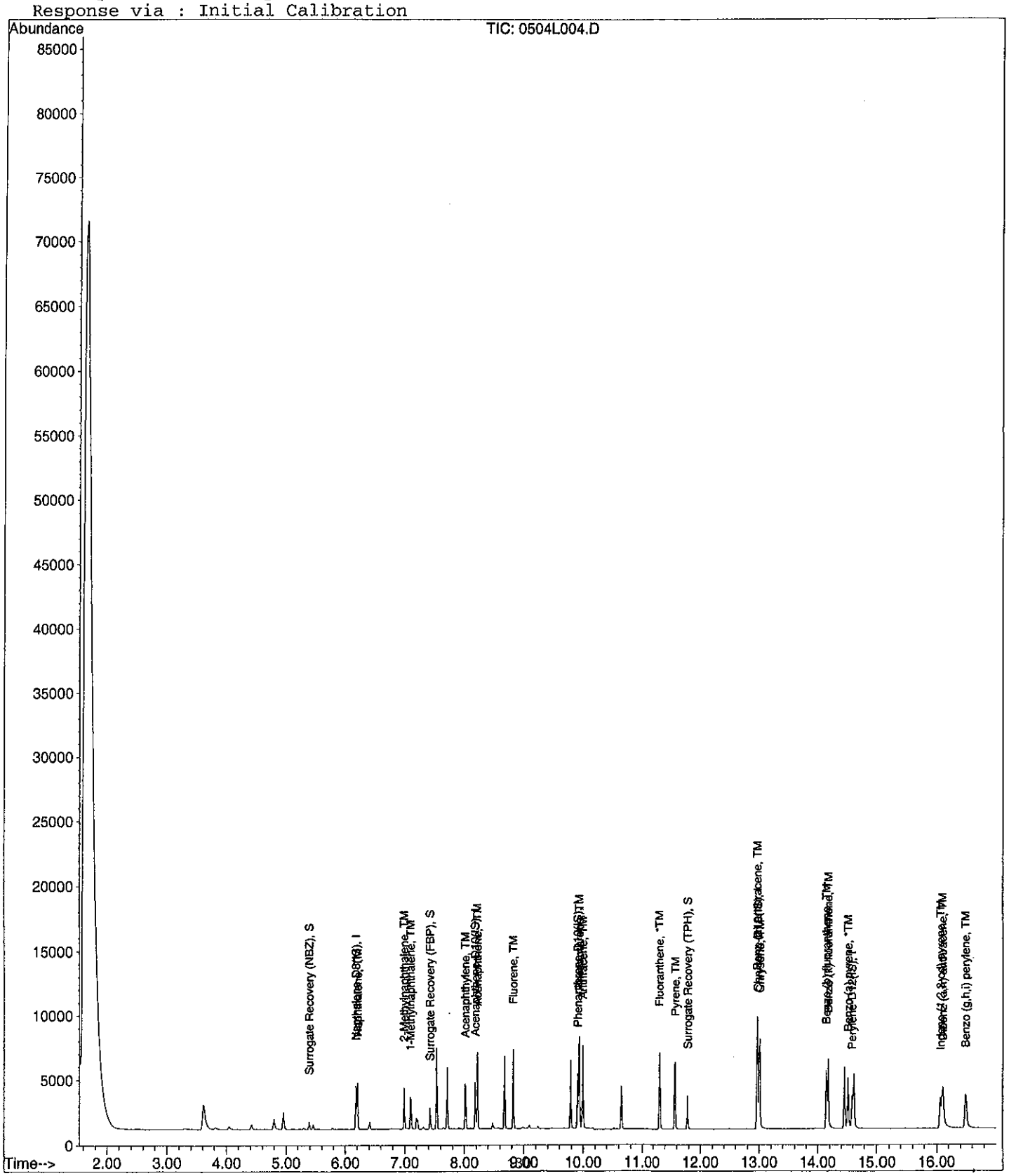
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2731	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1458	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2823	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	3053	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	2540	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	388	1.78705 ppb		0.01
Spiked Amount 2.000			Recovery = 89.350%			
7) Surrogate Recovery (FBP)	7.42	172	1168	1.01824 ppb		0.00
Spiked Amount 2.000			Recovery = 50.900%			
17) Surrogate Recovery (TPH)	11.78	244	1604	1.19406 ppb		0.01
Spiked Amount 2.000			Recovery = 59.700%			
Target Compounds						Qvalue
3) Naphthalene	6.20	128	3455	2.06241 ppb		98
4) 2-Methylnaphthalene	6.99	142	2308	2.07072 ppb		96
5) 1-Methylnaphthalene	7.10	142	2162	2.03193 ppb		95
8) Acenaphthylene	8.01	152	3309	2.08900 ppb		97
9) Acenaphthene	8.22	154	1957	2.14914 ppb		93
10) Fluorene	8.82	166	2606	2.37913 ppb		91
12) Phenanthrene	9.93	178	4433	2.63823 ppb		98
13) Anthracene	9.99	178	3949	2.74520 ppb		99
14) Fluoranthene	11.30	202	5777	2.45613 ppb	#	76
16) Pyrene	11.57	202	6114	2.75632 ppb		98
18) Benz (a) anthracene	12.96	228	5106	2.62640 ppb		99
19) Chrysene	13.01	228	4955	2.83958 ppb		100
20) Indeno (1,2,3-cd) pyrene	16.06	276	4781	3.49718 ppb	#	98
22) Benzo (b) fluoranthene	14.14	252	5104	2.70123 ppb	#	96
23) Benzo (k) fluoranthene	14.17	252	4511	2.66368 ppb	#	97
24) Benzo (a) pyrene	14.51	252	4493	2.77074 ppb	#	95
25) Dibenz (a,h) anthracene	16.10	278	3905	2.79259 ppb		96
26) Benzo (g,h,i) perylene	16.48	276	4087	2.73438 ppb	#	92

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0504L004.D Vial: 4
Acq On : 4 May 11 18:22 Operator: LF
Sample : 110428A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:42 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



Matrix Spike Recoveries

EPA 8270D SIM

APPL ID: **110428W-36384 MS - 155153**
Batch ID: #SIMHC-110428A
Sample ID: AY36384
Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	3.92	ND	2.06	2.04	52.5	52.0	45-105	0.98	25
2-METHYLNAPHTHALENE	3.92	ND	2.08	2.01	53.0	51.2	45-105	3.4	25
ACENAPHTHENE	3.92	ND	2.16	2.20	55.1	56.1	45-110	1.8	25
ACENAPHTHYLENE	3.92	ND	2.07	2.14	52.8	54.6	50-105	3.3	25
ANTHRACENE	3.92	ND	2.22	2.39	56.6	60.9	55-110	7.4	25
BENZO(A)ANTHRACENE	3.92	ND	2.12	2.26	54.1 #	57.6	55-110	6.4	25
BENZO(A)PYRENE	3.92	ND	2.32	2.40	59.2	61.2	55-110	3.4	25
BENZO(B)FLUORANTHENE	3.92	ND	2.45	2.44	62.5	62.2	45-120	0.41	25
BENZO(GHI)PERYLENE	3.92	ND	2.26	2.31	57.6	58.9	40-125	2.2	25
BENZO(K)FLUORANTHENE	3.92	ND	2.72	2.28	69.4	58.1	45-125	17.6	25
CHRYSENE	3.92	ND	2.55	2.69	65.0	68.6	55-110	5.3	25
DIBENZ(A,H)ANTHRACENE	3.92	ND	2.25	2.42	57.4	61.7	40-125	7.3	25
FLUORANTHENE	3.92	ND	2.01	2.13	51.2 #	54.3 #	55-115	5.8	25
FLUORENE	3.92	ND	2.23	2.29	56.9	58.4	50-110	2.7	25
INDENO(1,2,3-CD)PYRENE	3.92	ND	2.71	2.84	69.1	72.4	45-125	4.7	25
NAPHTHALENE	3.92	ND	1.99	2.07	50.7	52.8	40-100	3.9	25
PHENANTHRENE	3.92	ND	2.13	2.34	54.3	59.7	50-115	9.4	25
PYRENE	3.92	ND	2.17	2.28	55.3	58.1	50-130	4.9	25
SURROGATE: 2-FLUORBIPHENYL (S)	1.96	NA	1.11	1.14	56.6	58.1	50-110		
SURROGATE: NITROBENZENE-D5 (S)	1.96	NA	1.42	1.63	72.4	83.1	40-110		
SURROGATE: TERPHENYL-D14 (S)	1.96	NA	1.15	1.25	58.6	63.7	50-135		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	SIM2.M	SIM2.M
Extraction Date :	04/28/11	04/28/11
Analysis Date :	05/04/11	05/04/11
Instrument :	Linus	Linus
Run :	0504L007	0504L008
Initials :	LF	

Printed: 05/16/11 6:27:17 PM
APPL MSD SCII

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L007.D
Acq On : 4 May 11 19:38
Sample : AY36384W20 MS-1 1/1020
Misc :

Vial: 7
Operator: LF
Inst : Linus
Multiplr: 0.98

Quant Time: May 16 17:45 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2960	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1606	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	3054	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	3291	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	2609	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	301	1.42291 ppb		0.01
Spiked Amount 1.961			Recovery = 72.573%			
7) Surrogate Recovery (FBP)	7.42	172	1430	1.10957 ppb		0.00
Spiked Amount 1.961			Recovery = 56.610%			
17) Surrogate Recovery (TPH)	11.78	244	1694	1.14692 ppb		0.01
Spiked Amount 1.961			Recovery = 58.497%			
Target Compounds						Qvalue
3) Naphthalene	6.20	128	3690	1.99243 ppb		99
4) 2-Methylnaphthalene	6.99	142	2557	2.07513 ppb		94
5) 1-Methylnaphthalene	7.10	142	2428	2.06410 ppb		90
8) Acenaphthylene	8.01	152	3678	2.06663 ppb		98
9) Acenaphthene	8.22	154	2207	2.15718 ppb		91
10) Fluorene	8.82	166	2750	2.23454 ppb		93
12) Phenanthrene	9.93	178	3945	2.12766 ppb		98
13) Anthracene	9.99	178	3524	2.22006 ppb		98
14) Fluoranthene	11.30	202	5223	2.01238 ppb	#	79
16) Pyrene	11.56	202	5293	2.17022 ppb	#	71
18) Benz (a) anthracene	12.96	228	4538	2.12296 ppb		98
19) Chrysene	13.01	228	4892	2.54974 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.05	276	4068	2.70632 ppb	#	90
22) Benzo (b) fluoranthene	14.14	252	4841	2.44537 ppb		99
23) Benzo (k) fluoranthene	14.17	252	4829	2.72161 ppb	#	98
24) Benzo (a) pyrene	14.51	252	3938	2.31789 ppb	#	98
25) Dibenz (a,h) anthracene	16.10	278	3295	2.24906 ppb		99
26) Benzo (g,h,i) perylene	16.48	276	3535	2.25736 ppb		95

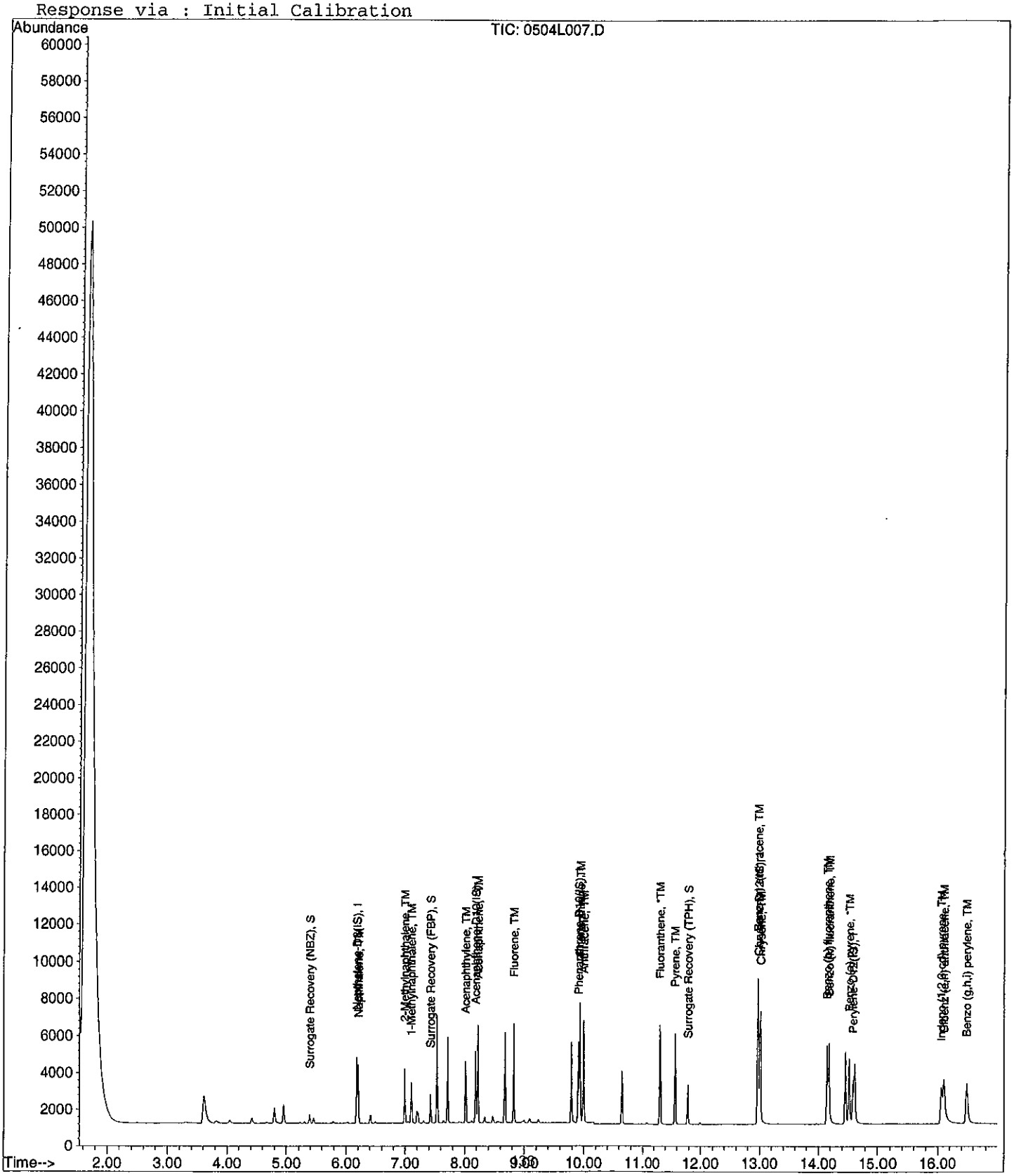
(#) = qualifier out of range (m) = manual integration
0504L007.D SIM2.M Mon May 16 18:17:57 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0504L007.D Vial: 7
Acq On : 4 May 11 19:38 Operator: LF
Sample : AY36384W20 MS-1 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 17:45 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L008.D Vial: 8
Acq On : 4 May 11 20:04 Operator: LF
Sample : AY36384W22 MSD-1 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 17:46 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

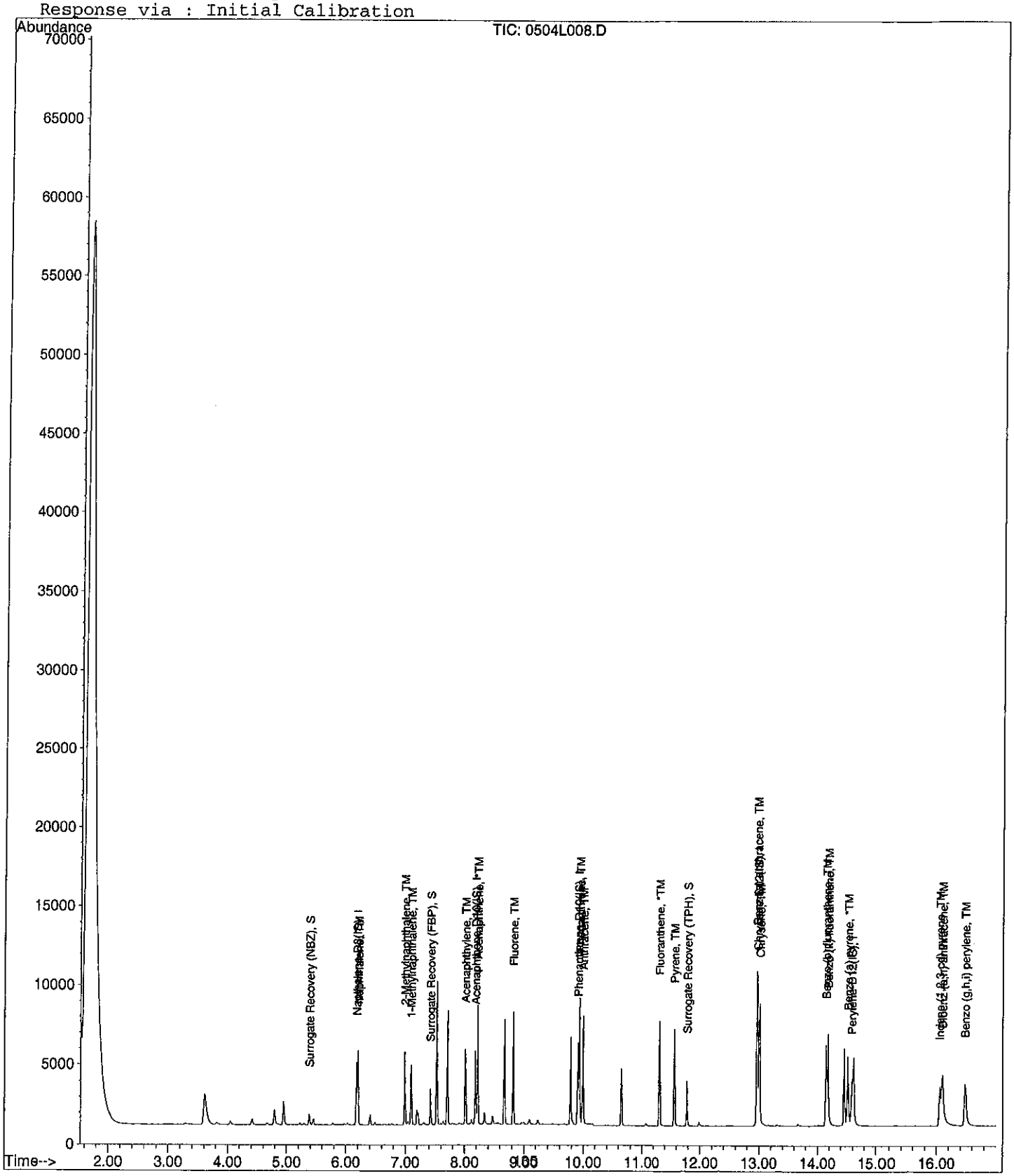
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	3274	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1839	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	3475	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	3863	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	3140	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	415	1.62719 ppb		0.01
Spiked Amount 1.961			Recovery = 82.977%			
7) Surrogate Recovery (FBP)	7.42	172	1686	1.14246 ppb		0.00
Spiked Amount 1.961			Recovery = 58.242%			
17) Surrogate Recovery (TPH)	11.78	244	2166	1.24934 ppb		0.01
Spiked Amount 1.961			Recovery = 63.699%			
Target Compounds						Qvalue
3) Naphthalene	6.20	128	4249	2.07423 ppb		99
4) 2-Methylnaphthalene	6.99	142	2735	2.00671 ppb		96
5) 1-Methylnaphthalene	7.10	142	2656	2.04138 ppb		96
8) Acenaphthylene	8.01	152	4366	2.14239 ppb		98
9) Acenaphthene	8.22	154	2572	2.19542 ppb		93
10) Fluorene	8.82	166	3222	2.28636 ppb		93
12) Phenanthrene	9.93	178	4929	2.33630 ppb		99
13) Anthracene	9.99	178	4319	2.39125 ppb		98
14) Fluoranthene	11.30	202	6294	2.13123 ppb	#	79
16) Pyrene	11.56	202	6534	2.28236 ppb	#	73
18) Benz (a) anthracene	12.96	228	5659	2.25538 ppb		99
19) Chrysene	13.01	228	6067	2.69393 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.05	276	5010	2.83948 ppb	#	90
22) Benzo (b) fluoranthene	14.14	252	5805	2.43644 ppb		97
23) Benzo (k) fluoranthene	14.17	252	4863	2.27728 ppb	#	99
24) Benzo (a) pyrene	14.51	252	4905	2.39884 ppb	#	97
25) Dibenz (a,h) anthracene	16.10	278	4262	2.41715 ppb		98
26) Benzo (g,h,i) perylene	16.48	276	4361	2.31389 ppb	#	93

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0504L008.D Vial: 8
Acq On : 4 May 11 20:04 Operator: LF
Sample : AY36384W22 MSD-1 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 17:46 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration

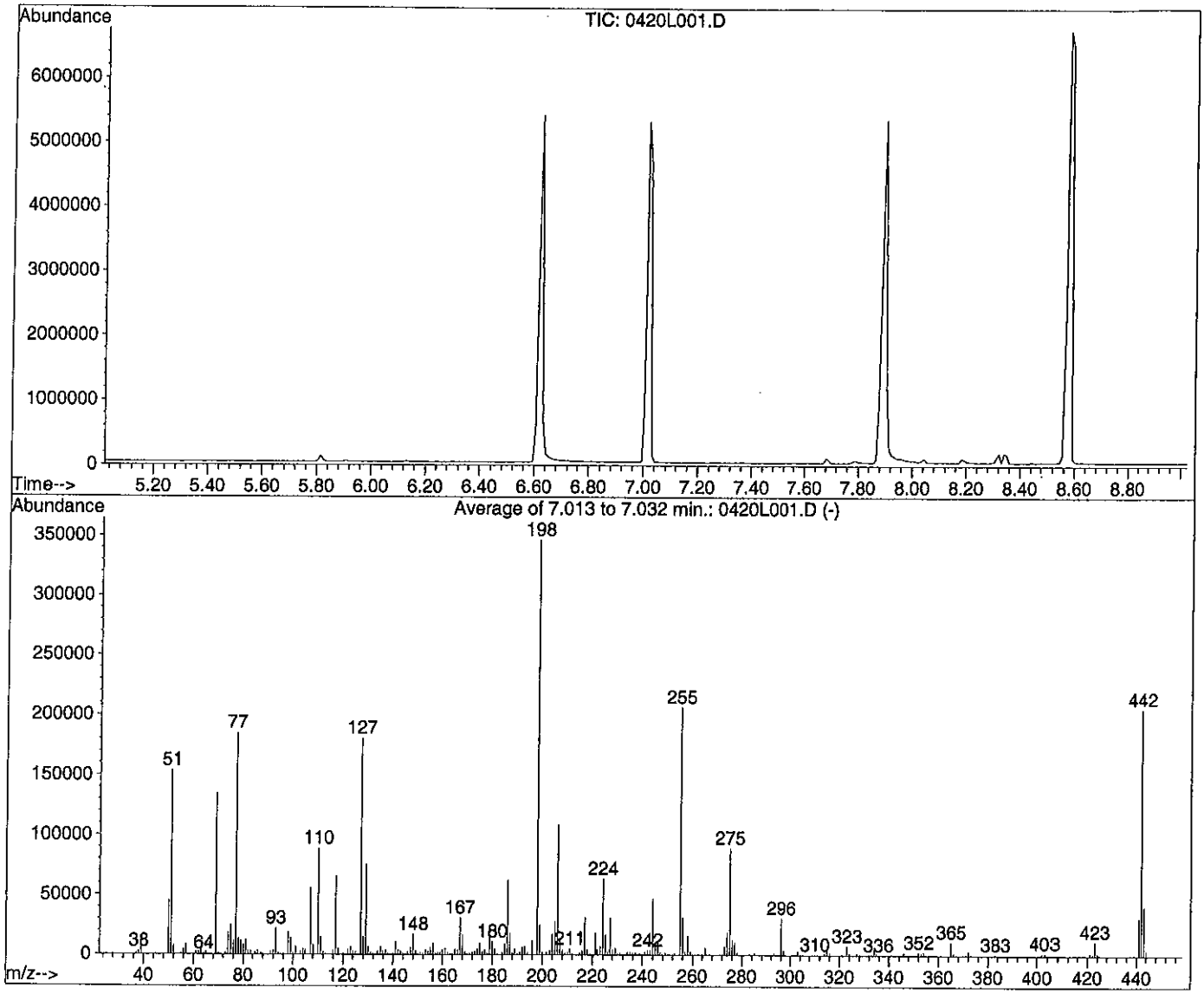


DFTPP

Data File : M:\LINUS\DATA\L110420\0420L001.D
Acq On : 20 Apr 11 21:00
Sample : SVTUNE 04-14-11
Misc :

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

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C



Spectrum Information: Average of 7.013 to 7.032 min.

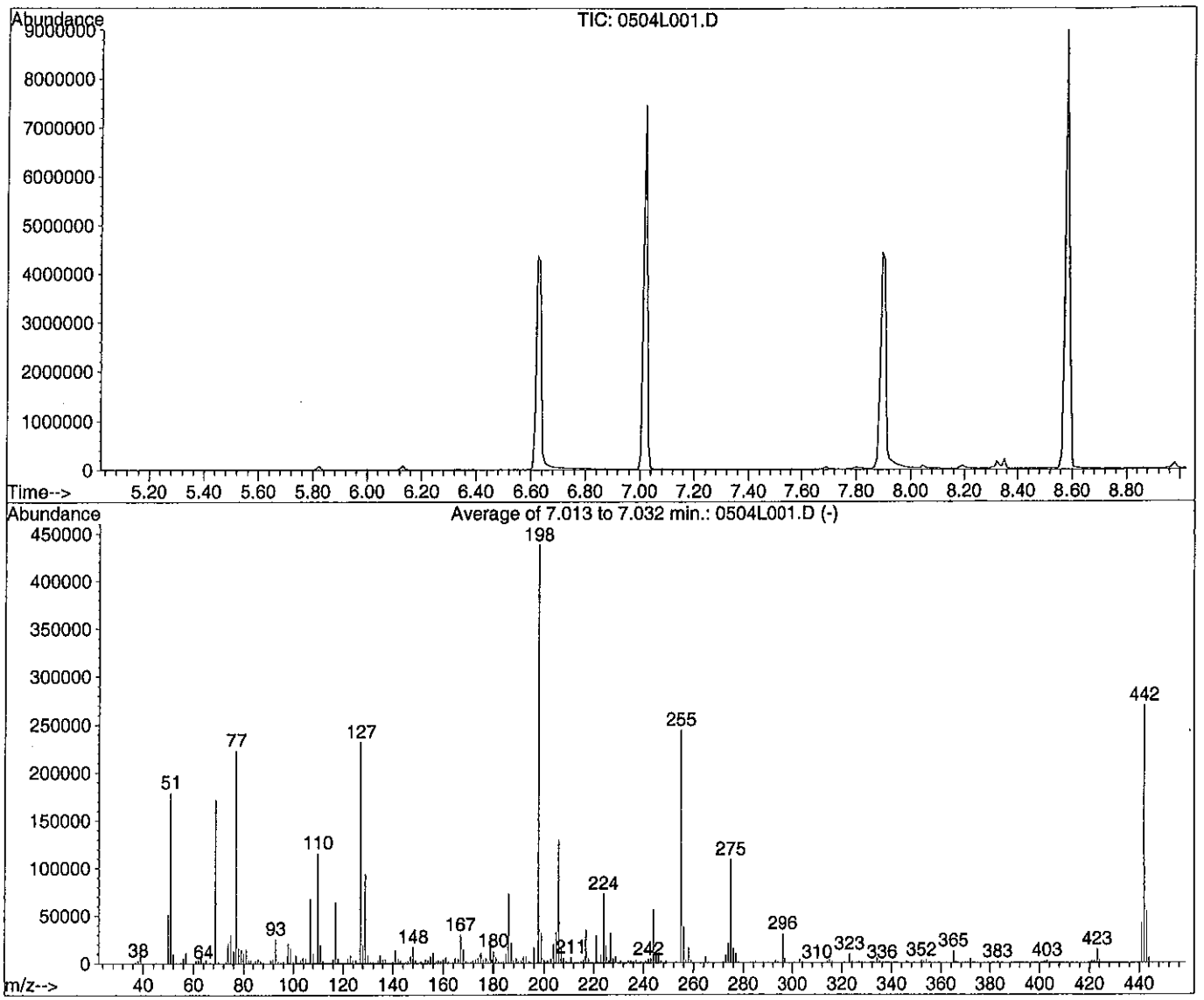
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.3	153818	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	936	PASS
127	198	40	60	52.0	180483	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	346958	PASS
199	198	5	9	7.2	24941	PASS
275	198	10	30	25.7	89331	PASS
365	198	1	100	3.2	11199	PASS
441	443	0.01	100	76.4	31355	PASS
442	198	40	150	59.4	206037	PASS
443	442	17	23	19.9	41055	PASS

0420L001.D SIM2.M Fri Apr 22 15:14:35 2011

DFTPP

Data File : M:\LINUS\DATA\L110420\0504L001.D Vial: 1
Acq On : 4 May 11 17:12 Operator: LF
Sample : SVTUNE 04-14-11 Inst : Linus
Misc : Multiplr: 1.00

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 478, 479, 480; Background Corrected with Scan 475

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	179195	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	1207	PASS
127	198	40	60	52.9	231910	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	438226	PASS
199	198	5	9	7.3	31849	PASS
275	198	10	30	24.8	108478	PASS
365	198	1	100	2.8	12198	PASS
441	443	0.01	100	76.8	41023	PASS
442	198	40	150	61.4	269224	PASS
443	442	17	23	19.8	53429	PASS

0504L001.D SIM2.M Mon May 16 18:17:27 2011

LF 3/4/10

PREP DATE:	03-04-10												
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	146582-26313		03/04/10	03-04-11	0	0	0	0	5	5	25	50
	5.0ug/mL	5			03/04/10		0	0	10	20	0	0	0	0
	1.0ug/mL	1			03/04/10		10	20	0	0	0	0	0	0
	Surrogate Stock	VAR	149231-24856		03/04/10	03-04-11	0	0	0	0	5	5	25	50
EM Science	Methylene Chloride		47080				90	80	90	80	190	90	50	0
						Final Vol.	100	100	100	100	200	100	100	100

LF 3/4/10

PREP DATE:	03-04-10				
SIM 8270 Second Source (5µg/mL)					
Exp:	03-18-10				
			Conc.	Date	CODE:
Supplier	ID #	Lot #	µg/mL	Code	Exp.Date	µL
	8270D PAH SIM (SS)	145112-24097	200	03/04/10	03-04-11	5
	MeCl2		Lot#47080			195
				Final Volume		200

LF 3/12/10

PREP DATE:	03-12-10																
8270T STANDARD CURVE																	
Exp:	04-11-10						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		02/23/10	08-24-10		0	0	0	5	5	10	20	25	30	40	50
	5.0ug/mL			03/12/10			0	0	20	0	0	0	0	0	0	0	0
	1.0ug/mL			03/12/10			10	20	0	0	0	0	0	0	0	0	0
	Surrogate Stock	VAR	149231-24856	03/04/10	03-04-11		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

LF 3/12/10

PREP DATE:	03-12-10					
8270/625 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		02/23/10	08-24-10	25
EM Science	Methylene Chloride		47080			75
					Final Vol.	100

LF 4/6/10

PREP DATE:	04-06-10													
8270 STANDARD CURVE														
Exp:	04-13-10						5	10	20	40	50	60	80	100
		Conc.			Date	CODE:	I	J	K	L	M	N	O	P
Supplier	ID #	µg/mL	Lot #		Code	Exp.Date	µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200			03/23/10	08-24-10	5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	149231-24856		03/04/10	03-04-11	5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47080				190	90	80	60	50	40	20	0
						Final Vol.	200	100	100	100	100	100	100	100

LF 4/6/10

PREP DATE:	04-06-10					
8270/625 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		02/23/10	08-24-10	25
EM Science	Methylene Chloride		47080			75
					Final Vol.	100

LF 4/12/10

GCM-160-1
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, No Kingstown, RI 02852 USA

ULTRA
1 mL

Semi-volatiles GC/MS Tuning Standard
Lot #: CF-2995 - 26132
Rec: 2/17/10 MFR exp. 08/31/11

exp 4/12/11

PREP DATE:	04-12-10					
SV Tune Mix 50ug/ml						
Exp:	04-12-11					
		Conc.		Date	CODE:	B
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
U. Scientific	GCM-150	1000	CF-2995-26132	04/12/10	08-31-11	1000
EM Science	MeCl2		47080			19000
					Final Vol	20000

LF 4/12/10

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 032009 Exp: 032012 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components CLP Semi-Volatiles Base/Neutrals Mix #1
2000 ug/mL in m Lot #: 032009 - 25510
ABSOLUTE STANDA Rec: 1/17/09 MFR exp. 03/20/12

LF 4/12/10 LF

exp 4/12/11

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components CLP Semi-Volatiles Base Neutrals Mix #2
2000 ug/mL in ma Lot #: 073109 - 25516
ABSOLUTE STANDA Rec: 11/17/09 MFR exp. 07/31/12

LF 4/12/10

exp 4/12/11

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 060407 Exp: 060412 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components CLP Semi-Volatiles Toxic Substances #1
2000 ug/mL in m Lot #: 060407 - 25521
ABSOLUTE STANDA Rec: 11/17/09 MFR exp. 06/04/12

LF 4/12/10

exp 4/12/11

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 121208 Exp: 121213 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components CLP Semi-Volatiles Toxic Substances #2
2000 ug/mL in met Lot #: 121208 - 25526
ABSOLUTE STANDAR Rec: 11/17/09 MFR exp. 12/12/13

LF 4/12/10

exp 4/12/11

Part #: 10006 Laboratory Use Only - See MSDS
Lot #: 102109 Exp: 102112 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components CLP Semi-Volatiles - Benzidines
2000 ug/mL in met Lot #: 102109 - 25531
ABSOLUTE STANDAR Rec: 11/17/09 MFR exp. 10/21/12

LF 4/12/10

exp 4/12/11

Part #: 10007 Laboratory Use Only - See MSDS
Lot #: 101409 Exp: 101414 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components CLP Semi-Volatiles - PAH Mix
2000 ug/mL in meti Lot #: 101409 - 25536
ABSOLUTE STANDAR Rec: 11/17/09 MFR exp. 10/14/14

LF 4/12/10

exp 4/12/11

Part #: 10018 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Pl EPA Method 8270A - Analytes Mix #8
2000 ug/mL in meti Lot #: 073109 - 25541
ABSOLUTE STANDAR Rec: 11/17/09 MFR exp. 07/31/14

LF 4/12/10

exp 4/12/11

LF 10/6/10

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

o2si Cat. No: 110394-01 Lot No: 158122 Exp: 4/17/2013
TCL Hzd. Soln. 2 Storage: </= -10 Degrees C
Lot #: 148122 - 26459 Solvent: Methylene Chloride
Rec: 4/19/10 MFR exp. 04/17/13 For Research Use Only
Opened: _____

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 010337-01 Lot No: 158126 Exp: 4/12/2012
Atrazine Storage: </= -10 Degrees C
Lot #: 158136 - 26467 Solvent: Methylene Chloride
Rec: 4/19/10 MFR exp. 04/12/12 For Research Use Only
Opened: _____

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 110391-01 Lot No: 158119 Exp: 4/17/2013
8270BN Solution 14-4 Storage: </= -10 Degrees C
Lot #: 158119 - 26453 Solvent: Methylene Chloride
Rec: 4/19/10 MFR exp. 04/17/13 For Research Use Only
Opened: _____

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 110392-01 Lot No: 158120 Exp: 4/17/2013
8270BN Solution 14-3 Storage: </= -10 Degrees C
Lot #: 158120 - 26455 Solvent: Methylene Chloride
Rec: 4/19/10 MFR exp. 04/17/13 For Research Use Only
Opened: _____

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 110393-01 Lot No: 158121 Exp: 4/17/2013
8270B Acid Solution 4-6 Storage: </= -10 Degrees C
Lot #: 158121 - 26457 Solvent: Methylene Chloride
Rec: 4/19/10 MFR exp. 04/17/13 For Research Use Only
Opened: _____

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 116070-02 Lot No: 158123 Exp: 4/17/2013
PAH Solution Storage: </= -10 Degrees C
Lot #: 158123 - 26461 Solvent: Methylene Chloride
Rec: 4/19/10 MFR exp. 04/17/13 For Research Use Only
Opened: _____

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 110396-01 Lot No: 158124 Exp: 4/17/2013
8270 Acid Solution 13-4 Storage: </= -10 Degrees C
Lot #: 158124 - 26463 Solvent: Methylene Chloride
Rec: 4/19/10 MFR exp. 04/17/13 For Research Use Only
Opened: _____

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 110395-01 Lot No: 158125 Exp: 4/17/2013
8270BN Solution 4-21 Storage: </= -10 Degrees C
Lot #: 158125 - 26465 Solvent: Methylene Chloride
Rec: 4/19/10 MFR exp. 04/17/13 For Research Use Only
Opened: _____

LF exp 10/6/11

LF 10/6/10

o2si smart solutions

8270 11 Compound Custom Mix, 200:2,000 mg/L, 1 ml
Cat. No: 110397-01
Lot No: 158127
8270 11 Compound Mix
Lot #: 158127 - 26470
Rec: 4/19/10 MFR exp. 04/12/12
Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
Opened: _____

LF 10/6/10

PREP DATE:	10-06-10					
8270C Second Source Stock Standard						
Exp:	10-06-11					
		Conc.		Date	CODE:	F
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
O2SI	110391-01	2000	158119-26453	10-6-10A	04-17-13	1000
O2SI	110392-01	2000	158120-26455	10-6-10B	04-17-13	1000
O2SI	110393-01	2000	158121-26457	10-6-10C	04-17-13	1000
O2SI	110394-01	2000	158122-26459	10-6-10D	04-17-13	1000
O2SI	116070-02	2000	158123-26461	10-6-10F	04-17-13	1000
O2SI	110395-01	2000	158125-26465	10-6-10G	04-17-13	1000
O2SI	110396-01	2000	158124-26463	10-6-10H	04-17-13	1000
O2SI	110397-01	2000	158127-26470	10-6-10I	04-12-12	1000
O2SI	010337-01	1000	158136-26467	10-6-10J	04-12-12	1000
EM Science	MeCl2		47080			1000
					Final Vol	10000

LF 10/7/10

o2si smart solutions

8270 BN:A (200:400) Surrogate Solution, 1 ml
Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25767
Rec: 12/30/09 MFR exp. 07/29/11
Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF exp 4/7/11

LF 10/7/10

o2si smart solutions

8270 BN:A (200:400) Surrogate Solution, 1 ml
Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25768
Rec: 12/30/09 MFR exp. 07/29/11
Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF exp 4/7/11

LF 10/7/10

o2si smart solutions

8270 BN:A (200:400) Surrogate Solution, 1 ml
Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25769
Rec: 12/30/09 MFR exp. 07/29/11
Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF exp 4/7/11

LF 10/7/10

o2si smart solutions

8270 BN:A (200:400) Surrogate Solution, 1 ml
Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25761
Rec: 12/30/09 MFR exp. 07/29/11
Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF exp 4/7/11

LF 10/7/10

o2si smart solutions

8270 BN:A (200:400) Surrogate Solution, 1 ml
Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25762
Rec: 12/30/09 MFR exp. 07/29/11
Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF exp 4/7/11

VF 1/17/11

PREP DATE:	01-17-11					
8270C Stock/Spike Standard						
Exp:	05-29-11					
		Conc.		Date	CODE:	P
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
Absolute	10001	2000	032009-28092	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

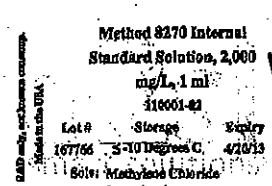
VF 1/25/11

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



VF

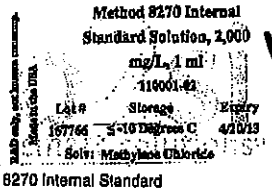
agp 1/25/12

8270 Internal Standard

Lot #: 167766 - 28148

Rec: 1/20/11 MFR exp. 04/20/13

VF 1/25/11



VF

agp 1/25/12

8270 Internal Standard

Lot #: 167766 - 28147

LF 3/23/14

Part #: 10001
Lot #: 032009
Laboratory Use Only - See MSDS
Exp: 032012 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in meth
ABSOLUTE STANDARI
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 032009 - 28089
Rec: 1/5/11 MFR exp. 03/20/12

exp 5/29/14

LF 3/23/14

Part #: 10001
Lot #: 032009
Laboratory Use Only - See MSDS
Exp: 032012 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in met
ABSOLUTE STANDAI
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 032009 - 28090
Rec: 1/5/11 MFR exp. 03/20/12

exp 5/29/14

LF 3/23/14

Part #: 10002
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in meth
ABSOLUTE STANDAR
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 27971
Rec: 12/16/10 MFR exp. 07/31/12

exp 5/29/14

LF 3/23/14

Part #: 10002
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in meti
ABSOLUTE STANDAF
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 27972
Rec: 12/16/10 MFR exp. 07/31/12

exp 5/29/14

LF 3/23/14

Part #: 10004
Lot #: 101509
Laboratory Use Only - See MSDS
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 - 27976
Rec: 12/16/10 MFR exp. 10/15/14

exp 5/29/14

LF 3/23/14

Part #: 10004
Lot #: 101509
Laboratory Use Only - See MSDS
Exp: 101514 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in meti
ABSOLUTE STANDAF
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 27977
Rec: 12/16/10 MFR exp. 10/15/14

exp 5/29/14

LF 3/23/14

Part #: 10005
Lot #: 061209
Laboratory Use Only - See MSDS
Exp: 061214 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 27981
Rec: 12/16/10 MFR exp. 06/12/14

exp 5/29/14

LF 3/29/14

Part #: 10005
Lot #: 061209
Laboratory Use Only - See MSDS
Exp: 061214 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 27982
Rec: 12/16/10 MFR exp. 06/12/14

exp 5/29/14

VF 3/23/14

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in meth
ABSOLUTE STANDAR
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 27986
Rec: 12/16/10 MFR exp. 12/08/13
VF
exp 5/29/14

VF 3/23/14

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in m
ABSOLUTE STANDA
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 27987
Rec: 12/16/10 MFR exp. 12/08/13
VF
exp 5/29/14

VF 3/23/14

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 STANDARI
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 28015
Rec: 12/16/10 MFR exp. 10/09/14
VF
exp 5/29/14

VF 3/23/14

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 STANDAI
CLPSemi-Volatiles - PAH Mix
Lot #: 100909 - 28014
Rec: 12/16/10 MFR exp. 10/09/14
VF
exp 5/29/14

VF 3/23/14

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Ph
2000 ug/mL in meth
ABSOLUTE STANDAR
EPA Method 8270A - Analytes Mix #8
Lot #: 073109 - 27991
Rec: 12/16/10 MFR exp. 07/31/14
VF
exp 5/29/14

VF 3/23/14

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - F
2000 ug/mL in me
ABSOLUTE STANDA
EPA Method 8270A - Analytes Mix #8
Lot #: 073109 - 27992
Rec: 12/16/10 MFR exp. 07/31/14
VF
exp 5/29/14

VF 3/23/14

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in acetor
ABSOLUTE STANDARD
Atrazine
Lot #: 080310 - 28006
Rec: 12/16/10 MFR exp. 08/03/15
VF
exp 5/29/14

VF 3/23/14

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in acet
ABSOLUTE STANDAR
Atrazine
Lot #: 080310 - 28007
Rec: 12/16/10 MFR exp. 08/03/15
VF
exp 5/29/14

VF 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

VF exp 5/29/11

VF 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

VF 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 - 27996
Rec: 12/16/10 MFR exp. 12/10/13
ABSOLUTE STANDARDS, INC.

exp 5/29/11

VF 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 STANDAR

exp 5/29/11

VF 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

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	110428A	Extraction Method	SEP004S	Units	mL

Spiked ID 1	SIM Spike 166254-27834		Surrogate ID 1	8270 SIM Surrogate 164394-27499	
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:	YES	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	**05/06/11 0:00**	

pH1	2	04/28/11 9:20:00 AM	W Bath Temp	80 °C
pH2	14	04/28/11 10:20:00 AM		
pH3				

Spiked By: DL **Date** 04/28/11 **Witnessed By:** GH **Date** 04/28/11

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	110428A Blk				0.025	1	1000	1	2/14	04/28/11 9:15	
2	110428A LCS-1		0.025	1	0.025	1	1000	1	2/14	04/28/11 9:15	
3	AY36384 MS-1	AY36384W20	0.025	1	0.025	1	1020	1	2/14	04/28/11 9:15	64484 2-WEEK RUSH -- Amber Liter
4	AY36384 MSD-1	AY36384W22	0.025	1	0.025	1	1020	1	2/14	04/28/11 9:15	64484 2-WEEK RUSH -- Amber Liter
5	AY36384	AY36384W19			0.025	1	1020	1	2/14	04/28/11 9:15	64484 2-WEEK RUSH -- Amber Liter
6	AY36385	AY36385W07			0.025	1	1050	1	2/14	04/28/11 9:15	64484 2-WEEK RUSH -- Amber Liter
7	AY36387	AY36387W06			0.025	1	1050	1	2/14	04/28/11 9:15	64484 2-WEEK RUSH -- Amber Liter
8	AY36394	AY36394W07			0.025	1	1000	1	2/14	04/28/11 9:15	64487 2-WEEK RUSH -- Amber Liter
9	AY36397	AY36397W13			0.025	1	1000	1	2/14	04/28/11 9:15	64487 2-WEEK RUSH--HOT! -- Amber Liter
10	AY36398	AY36398W11			0.025	1	1020	1	2/14	04/28/11 9:15	64487 2-WEEK RUSH--HOT! -- Amber Liter
11	AY36422	AY36422W12			0.025	1	1050	1	2/14	04/28/11 9:15	64493 2-WEEK RUSH--HOT! -- Amber Liter
12	AY36424	AY36424W13			0.025	1	1050	1	2/14	04/28/11 9:15	64493 2-WEEK RUSH--HOT! -- Amber Liter
13	AY36425	AY36425W13			0.025	1	1050	1	2/14	04/28/11 9:15	64493 2-WEEK RUSH--HOT! -- Amber Liter

Solvent and Lot#	
MC	VWR 112910A
Na2SO4	0440C237
10N NaOH	3/14/11
1+1 Acid	3/14/11
A. Na2SO4	3/14/11

Extraction COC Transfer	
Extraction lab employee Initials	RJS
GC analyst's initials	
Date	5/4/11
Time	1700
Refrigerator	Ward

	Technician's Initials
Scanned By	GH
Sample Preparation	GH JL
Extraction	GH DL JL
Concentration	JL
Modified	04/28/11 8:11:20 AM

Reviewed By: RJS **Date** 04/28/11

Injection Log

Directory: M:\LINUS\DATA\L110420\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0420L001.D	1	SVTUNE 04-14-11		20 Apr 11 21:00
2	2	0420L002.D	1	0.1ug/ml PAH 04-20-11		20 Apr 11 21:19
3	3	0420L003.D	1	0.2ug/ml PAH		20 Apr 11 21:44
4	4	0420L004.D	1	0.5ug/ml PAH		20 Apr 11 22:10
5	5	0420L005.D	1	1.0ug/ml PAH		20 Apr 11 22:35
6	6	0420L006.D	1	5.0ug/ml PAH		20 Apr 11 23:01
7	7	0420L007.D	1	10ug/ml PAH		20 Apr 11 23:27
8	8	0420L008.D	1	50ug/ml PAH		20 Apr 11 23:52
9	9	0420L009.D	1	100ug/ml PAH		21 Apr 11 00:18
10	10	0420L010.D	1	5.0ug/ml PAH SS 04-11-11		21 Apr 11 00:43
11	1	0504L001.D	1	SVTUNE 04-14-11		4 May 11 17:12
12	2	0504L002.D	1	5.0ug/ml PAH 04-20-11		4 May 11 17:30
13	3	0504L003.D	1	110428A BLK 1/1000		4 May 11 17:56
14	4	0504L004.D	1	110428A LCS-1 1/1000		4 May 11 18:22
15	7	0504L007.D	0.98039	AY36384W20 MS-1 1/1020		4 May 11 19:38
16	8	0504L008.D	0.98039	AY36384W22 MSD-1 1/1020		4 May 11 20:04
17	9	0504L009.D	0.98039	AY36384W19 1/1020		4 May 11 20:29
18	10	0504L010.D	0.95238	AY36385W07 1/1050		4 May 11 20:55
19	11	0504L011.D	0.95238	AY36387W06 1/1050		4 May 11 21:20

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

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110425W-36384 - 155157**
Batch ID: #86RHB-110425AC

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	04/25/11	04/25/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/25/11	04/25/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/25/11	04/25/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	04/25/11	04/25/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/25/11	04/25/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/25/11	04/25/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/25/11	04/25/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/25/11	04/25/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/25/11	04/25/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/25/11	04/25/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/25/11	04/25/11
BLANK	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/25/11	04/25/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/25/11	04/25/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11

Quant Method: C86DODW.M
Run #: 0425C06
Instrument: Chico
Sequence: C110422
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:26:04 PM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **110425W-36384 - 155157**
Batch ID: #86RHB-110425AC

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	04/25/11	04/25/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	04/25/11	04/25/11
BLANK	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/25/11	04/25/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	SURROGATE: 1,2-DICHLOROET	99.4	70-120			%	04/25/11	04/25/11
BLANK	SURROGATE: 4-BROMOFLUORO	98.7	75-120			%	04/25/11	04/25/11
BLANK	SURROGATE: DIBROMOFLUOR	95.8	85-115			%	04/25/11	04/25/11
BLANK	SURROGATE: TOLUENE-D8 (S)	88.5	85-120			%	04/25/11	04/25/11

Quant Method: C86DODW.M
Run #: 0425C06
Instrument: Chico
Sequence: C110422
Initials: LF

GC SC-Blank-REG MDLs
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Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64484

Case No: 64484 Date Analyzed: 04/25/11

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)	SURROGATE: 4-BROMOFLUOROBENZENE (S)
110425AC-LCS	Lab Control Spike	84.7	95.3
110425AC-BLK	Blank	99.4	98.7
AY36384	ES029	84.5	91.8
AY36385	ES028	83.8	91.5
AY36386	ES030	85.1	93.3
AY36388	ES032	88.9	92.7
AY36387	ES031	89.7	89.8
AY36384-MS	Matrix Spike	90.9	96.8
AY36384-MSD	Matrix SpikeD	92.3	93.0

Comments: Batch: #86RHB-110425AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64484

Case No: 64484 Date Analyzed: 04/25/11

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)	SURROGATE: TOLUENE-D8 (S)
110425AC-LCS	Lab Control Spike	86.7	93.8
110425AC-BLK	Blank	95.8	88.5
AY36384	ES029	87.0	88.8
AY36385	ES028	90.1	88.4
AY36386	ES030	89.4	90.1
AY36388	ES032	92.7	87.3
AY36387	ES031	90.9	85.9
AY36384-MS	Matrix Spike	88.9	92.3
AY36384-MSD	Matrix SpikeD	91.0	87.3

Comments: Batch: #86RHB-110425AC

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36384 LCS - 155157**
Batch ID: #86RHB-110425AC

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	9.93	99.3	80-130
1,1,1-TRICHLOROETHANE	10.00	9.93	99.3	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	9.89	98.9	65-130
1,1,2-TRICHLOROETHANE	10.00	9.41	94.1	75-125
1,1-DICHLOROETHANE	10.00	10.3	103	70-135
1,1-DICHLOROETHENE	10.00	10.5	105	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.15	91.5	75-125
1,2,4-TRICHLOROBENZENE	10.00	8.99	89.9	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	9.37	93.7	50-130
1,2-DIBROMOETHANE	10.00	9.56	95.6	70-130
1,2-DICHLOROBENZENE	10.00	9.86	98.6	70-120
1,2-DICHLOROETHANE	10.00	9.16	91.6	70-130
1,2-DICHLOROPROPANE	10.00	9.43	94.3	75-125
1,3-DICHLOROBENZENE	10.00	9.73	97.3	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	18.2	91.0	70-130
1,4-DICHLOROBENZENE	10.00	9.73	97.3	75-125
2-BUTANONE	10.00	8.65	86.5	30-150
4-METHYL-2-PENTANONE	10.00	9.68	96.8	60-135
ACETONE	10.00	9.89	98.9	40-140
BENZENE	10.00	10.4	104	80-120
BROMODICHLOROMETHANE	10.00	9.07	90.7	75-120
BROMOFORM	10.00	9.29	92.9	70-130
BROMOMETHANE	10.00	9.36	93.6	30-145
CARBON TETRACHLORIDE	10.00	10.0	100	65-140
CHLOROBENZENE	10.00	10.5	105	80-120
CHLORODIBROMOMETHANE	10.00	9.16	91.6	60-135

Comments:

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	04/25/11
Analysis Date :	04/25/11
Instrument :	Chico
Run :	0425C02
Initials :	LF

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APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36384 LCS - 155157**
Batch ID: #86RHB-110425AC

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	11.2	112	60-135
CHLOROFORM	10.00	9.79	97.9	65-135
CHLOROMETHANE	10.00	10.8	108	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.2	102	70-125
ETHYLBENZENE	10.00	10.7	107	75-125
GASOLINE	300	342	114	75-125
HEXACHLOROBUTADIENE	10.00	9.35	93.5	50-140
METHYL TERT-BUTYL ETHER	10.00	9.04	90.4	65-125
METHYLENE CHLORIDE	10.00	10.1	101	55-140
STYRENE	10.00	9.73	97.3	65-135
TETRACHLOROETHENE	10.00	10.8	108	45-150
TOLUENE	10.00	10.4	104	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.4	104	60-140
TRICHLOROETHENE	10.00	9.83	98.3	70-125
VINYL CHLORIDE	10.00	9.32	93.2	50-145
XYLENES (TOTAL)	30.0	32.2	107	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	18.9	84.7	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.3	25.1	95.3	75-120
SURROGATE: DIBROMOFLUOROMETH	23.5	20.4	86.7	85-115
SURROGATE: TOLUENE-D8 (S)	26.0	24.4	93.8	85-120

Comments:

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	04/25/11
Analysis Date :	04/25/11
Instrument :	Chico
Run :	0425C02
Initials :	LF

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APPL Standard LCS

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36384 MS - 155157**
Batch ID: #86RHB-110425AC
Sample ID: AY36384
Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,1,1,2-TETRACHLOROETHANE	10.00	ND	10.1	9.15	101	91.5	80-130	9.9	30
1,1,1-TRICHLOROETHANE	10.00	ND	9.17	9.07	91.7	90.7	65-130	1.1	30
1,1,2,2-TETRACHLOROETHANE	10.00	ND	3.29	2.46	32.9 #	24.6 #	65-130	28.9	30
1,1,2-TRICHLOROETHANE	10.00	ND	10.3	10.2	103	102	75-125	0.98	30
1,1-DICHLOROETHANE	10.00	ND	9.77	9.69	97.7	96.9	70-135	0.82	30
1,1-DICHLOROETHENE	10.00	ND	9.78	9.57	97.8	95.7	70-130	2.2	30
1,2,3-TRICHLOROPROPANE	10.00	ND	8.92	10.4	89.2	104	75-125	15.3	30
1,2,4-TRICHLOROBENZENE	10.00	ND	8.75	9.35	87.5	93.5	65-135	6.6	30
1,2-DIBROMO-3-CHLOROPROPANE	10.00	ND	8.98	9.30	89.8	93.0	50-130	3.5	30
1,2-DIBROMOETHANE	10.00	ND	9.45	9.48	94.5	94.8	70-130	0.32	30
1,2-DICHLOROBENZENE	10.00	ND	9.16	9.58	91.6	95.8	70-120	4.5	30
1,2-DICHLOROETHANE	10.00	ND	9.30	9.05	93.0	90.5	70-130	2.7	30
1,2-DICHLOROPROPANE	10.00	ND	9.53	9.63	95.3	96.3	75-125	1.0	30
1,3-DICHLOROBENZENE	10.00	ND	9.14	9.24	91.4	92.4	75-125	1.1	30
1,3-DICHLOROPROPENE, TOTAL	20.0	ND	18.6	19.2	93.0	96.0	70-130	3.2	30
1,4-DICHLOROBENZENE	10.00	ND	9.47	9.38	94.7	93.8	75-125	0.95	30
2-BUTANONE	10.00	ND	9.08	10.0	90.8	100	30-150	9.6	30
4-METHYL-2-PENTANONE	10.00	ND	9.47	9.27	94.7	92.7	60-135	2.1	30
ACETONE	10.00	ND	13.9	16.6	139	166 #	40-140	17.7	30
BENZENE	10.00	ND	10.0	9.99	100	99.9	80-120	0.10	30
BROMODICHLOROMETHANE	10.00	ND	9.18	9.59	91.8	95.9	75-120	4.4	30
BROMOFORM	10.00	ND	9.78	9.50	97.8	95.0	70-130	2.9	30
BROMOMETHANE	10.00	ND	9.29	8.86	92.9	88.6	30-145	4.7	30
CARBON TETRACHLORIDE	10.00	ND	9.16	9.16	91.6	91.6	65-140	0.0	30
CHLOROBENZENE	10.00	ND	9.99	9.31	99.9	93.1	80-120	7.0	30

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	C86DODW.M	C86DODW.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	04/25/11	04/25/11
Instrument :	Chico	Chico
Run :	0425C16	0425C17
Initials :	LF	

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APPL MSD SCII

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36384 MS - 155157**
Batch ID: #86RHB-110425AC
Sample ID: AY36384
Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
CHLORODIBROMOMETHANE	10.00	ND	9.62	9.40	96.2	94.0	60-135	2.3	30
CHLOROETHANE	10.00	ND	9.89	9.75	98.9	97.5	60-135	1.4	30
CHLOROFORM	10.00	ND	9.48	9.48	94.8	94.8	65-135	0.0	30
CHLOROMETHANE	10.00	ND	9.78	9.93	97.8	99.3	40-125	1.5	30
CIS-1,2-DICHLOROETHENE	10.00	ND	9.65	9.58	96.5	95.8	70-125	0.73	30
ETHYLBENZENE	10.00	ND	9.86	9.25	98.6	92.5	75-125	6.4	30
GASOLINE	300	ND	305	305	102	102	75-125	0.0	30
HEXACHLOROBUTADIENE	10.00	ND	8.09	7.56	80.9	75.6	50-140	6.8	30
METHYL TERT-BUTYL ETHER	10.00	ND	9.80	10.1	98.0	101	65-125	3.0	30
METHYLENE CHLORIDE	10.00	ND	9.78	9.91	97.8	99.1	55-140	1.3	30
STYRENE	10.00	ND	9.12	9.09	91.2	90.9	65-135	0.33	30
TETRACHLOROETHENE	10.00	ND	10.1	9.20	101	92.0	45-150	9.3	30
TOLUENE	10.00	0.21	9.65	9.94	94.4	97.3	75-120	3.0	30
TRANS-1,2-DICHLOROETHENE	10.00	ND	10.1	9.92	101	99.2	60-140	1.8	30
TRICHLOROETHENE	10.00	ND	16.0	16.4	160 #	164 #	70-125	2.5	30
VINYL CHLORIDE	10.00	ND	10.1	9.32	101	93.2	50-145	8.0	30
XYLENES (TOTAL)	30.0	0.39	30.0	28.3	98.7	93.0	80-120	5.8	30
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	NA	20.3	20.6	90.9	92.3	70-120		
SURROGATE: 4-BROMOFLUOROBENZE	26.3	NA	25.5	24.5	96.8	93.0	75-120		
SURROGATE: DIBROMOFLUOROMETH	23.5	NA	20.9	21.4	88.9	91.0	85-115		
SURROGATE: TOLUENE-D8 (S)	26.0	NA	24.0	22.7	92.3	87.3	85-120		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	C86DODW.M	C86DODW.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	04/25/11	04/25/11
Instrument :	Chico	Chico
Run :	0425C16	0425C17
Initials :	LF	

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APPL MSD SCII

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 64484

Case No: 64484 Date Analyzed: 04/25/11

Matrix: WATER Instrument: Chico

Blank ID: 110425AC-BLK Time Analyzed: 1413

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110425AC-LCS	Lab Control Spike	0425C02	04/25/11 1117
110425AC-BLK	Blank	0425C06	04/25/11 1413
AY36384	ES029	0425C11	04/25/11 1709
AY36385	ES028	0425C12	04/25/11 1745
AY36386	ES030	0425C13	04/25/11 1820
AY36388	ES032	0425C14	04/25/11 1855
AY36387	ES031	0425C15	04/25/11 1930
110425AC-MS	Matrix Spike	0425C16	04/25/11 2006
110425AC-MSD	Matrix SpikeD	0425C17	04/25/11 2041

Comments: Batch: #86RHB-110425AC

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 64484
Matrix: Water
ID: 20ug/ml BFB STD 04-15-11A

SDG No: 64484
Date Analyzed: 04/25/11
Instrument: Chico
Time Analyzed: 10:08

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Lab Control Spike	110425A LCS-1WC	0425C02W.D	04/25/11 11:17
2	Blank	110425A BLK-1WC	0425C06W.D	04/25/11 14:13
3	ES029	AY36384W01	0425C11W.D	04/25/11 17:09
4	ES028	AY36385W01	0425C12W.D	04/25/11 17:45
5	ES030	AY36386W01	0425C13W.D	04/25/11 18:20
6	ES032	AY36388W01	0425C14W.D	04/25/11 18:55
7	ES031	AY36387W01	0425C15W.D	04/25/11 19:30
8	Matrix Spike	AY36384W234 MS-1WC	0425C16W.D	04/25/11 20:06
9	Matrix Spike Dup	AY36384W234 MSD-1WC	0425C17W.D	04/25/11 20:41
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	15.6
75	30 - 60% of mass 95	40.9
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.5
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	98.1
175	5 - 9% of mass 174	7.2
176	95 - 101% of mass 174	97.6
177	5 - 9% of mass 176	6.4

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0426C00T.D
Matrix: Water
ID: 20ug/ml BFB STD 04-15-11A

SDG No: Chico
Date Analyzed: 04/26/11
Instrument: Chico
Time Analyzed: 10:29

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Matrix Spike	AY36384W678 MS-1WC	0426C08W.D	04/26/11 15:42
2	Matrix Spike Dup	AY36384W678 MSD-1WC	0426C09W.D	04/26/11 16:17
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	18.4
75	30 - 60% of mass 95	41.3
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	7.2
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	95.5
175	5 - 9% of mass 174	7.6
176	95 - 101% of mass 174	96.4
177	5 - 9% of mass 176	6.6

8A

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 64484

Lab File ID (Standard): 0422C09W.D Date Analyzed: 04/22/11

Instrument ID: Chico Time Analyzed: 20:57

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	440128	12.90	324224	18.10	180544	22.30
	UPPER LIMIT	880256	13.40	648448	18.60	361088	22.80
	LOWER LIMIT	220064	12.40	162112	17.60	90272	21.80
	SAMPLE NO.						
01	110425A LCS-1WC	540425	12.88	386816	18.07	216064	22.27
02	110425A BLK-1WC	425408	12.89	327424	18.07	192768	22.27
03	AY36384W01	582336	12.89	443840	18.09	254016	22.27
04	AY36385W01	588416	12.90	454400	18.08	263168	22.28
05	AY36386W01	590784	12.89	434240	18.08	255040	22.28
06	AY36388W01	556992	12.89	438144	18.09	249088	22.28
07	AY36387W01	558272	12.89	434624	18.08	246336	22.28
08	AY36384W234 MS-1W(	541504	12.89	392192	18.08	221760	22.28
09	AY36384W234 MSD-1V	520512	12.90	403712	18.08	221248	22.28
10							
11							
12							
13							
14							
15							
16							
17							
18							
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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: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES029
Sample Collection Date: 04/21/11

ARF: 64484
APPL ID: AY36384
QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/25/11	04/25/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/25/11	04/25/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/25/11	04/25/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/25/11	04/25/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/25/11	04/25/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/25/11	04/25/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/25/11	04/25/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/25/11	04/25/11

J = Estimated value.

Quant Method: C86DODW.M
Run #: 0425C11
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES029

APPL ID: AY36384

Sample Collection Date: 04/21/11

QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/25/11	04/25/11
EPA 8260B	TOLUENE	0.21 J	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	XYLENES (TOTAL)	0.39 J	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	84.5	70-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	91.8	75-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	87.0	85-115			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	88.8	85-120			%	04/25/11	04/25/11

J = Estimated value.

Quant Method: C86DODW.M
Run #: 0425C11
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C11W.D Vial: 1
Acq On : 25 Apr 11 17:09 Operator: RS
Sample : AY36384W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:49 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

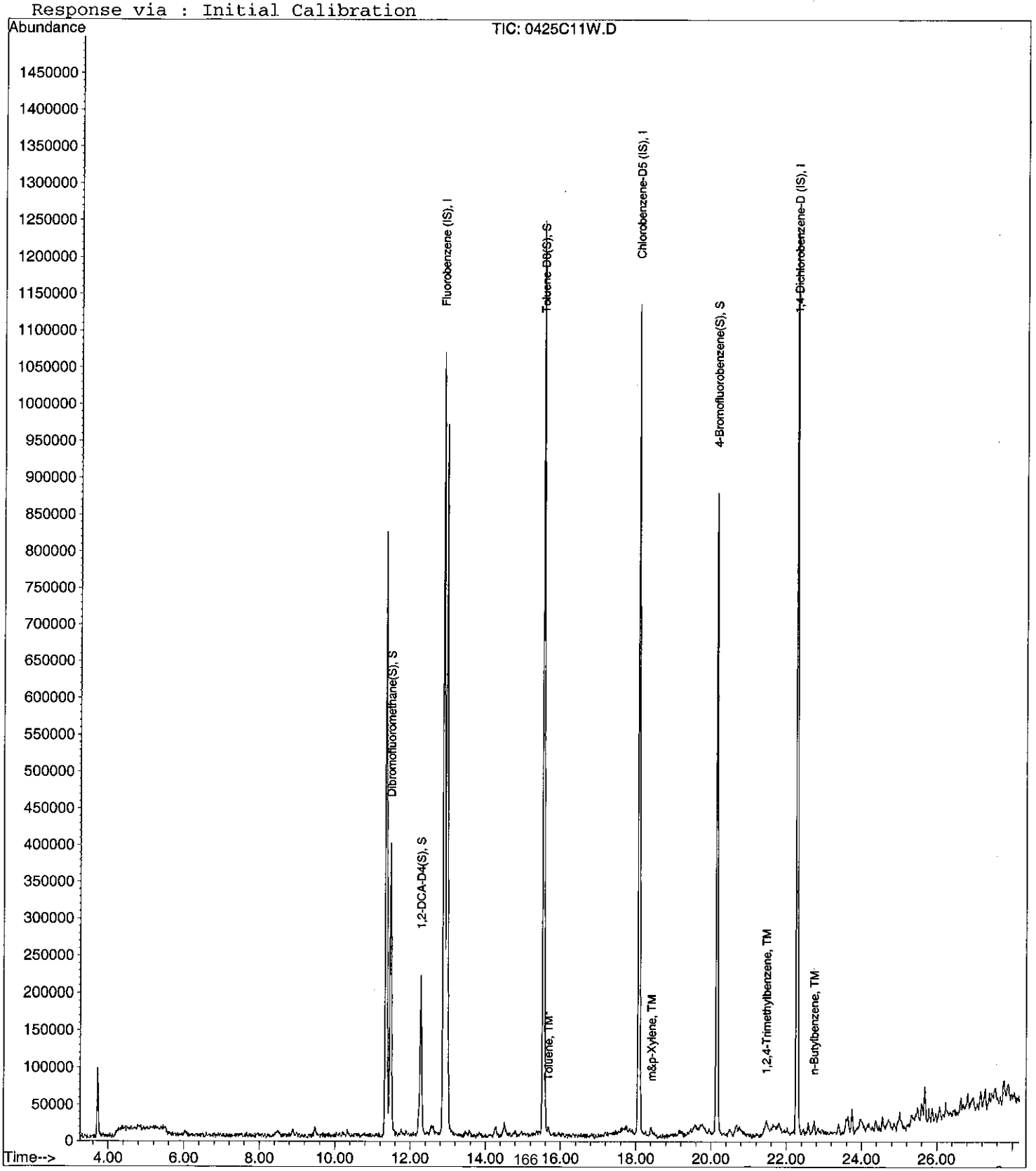
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.89	96	582336	25.00000 ppb		-0.01
35) Chlorobenzene-D5 (IS)	18.09	117	443840	25.00000 ppb		-0.01
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	254016	25.00000 ppb		-0.02
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	380622	20.46770 ppb		-0.01
Spiked Amount 23.521			Recovery = 87.022%			
23) 1,2-DCA-D4(S)	12.28	65	223736	18.86668 ppb		-0.01
Spiked Amount 22.321			Recovery = 84.527%			
36) Toluene-D8(S)	15.55	98	1457243	23.08330 ppb		-0.01
Spiked Amount 26.002			Recovery = 88.775%			
44) 4-Bromofluorobenzene(S)	20.16	95	505451	24.17216 ppb		-0.01
Spiked Amount 26.339			Recovery = 91.774%			
Target Compounds						Qvalue
32) Toluene	15.69	92	7607	0.20890 ppb		66
41) m&p-Xylene	18.41	106	11983	0.38658 ppb		96
62) 1,2,4-Trimethylbenzene	21.47	105	18785	0.27208 ppb		90
67) n-Butylbenzene	22.74	91	13512	0.20073 ppb	#	74

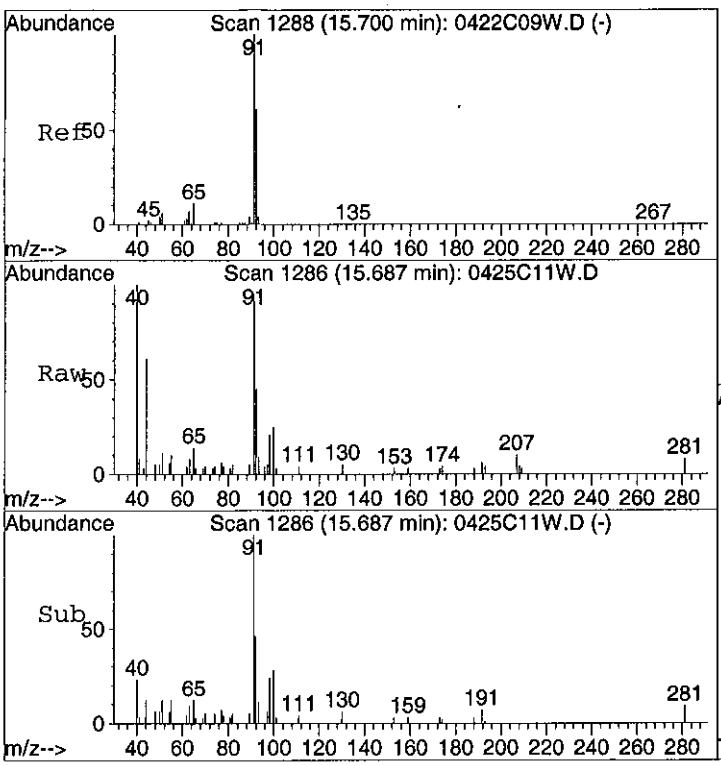
Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C11W.D Vial: 1
Acq On : 25 Apr 11 17:09 Operator: RS
Sample : AY36384W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:49 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration

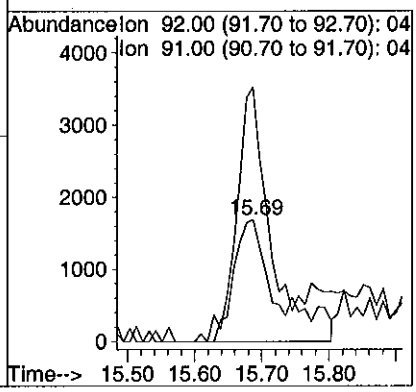


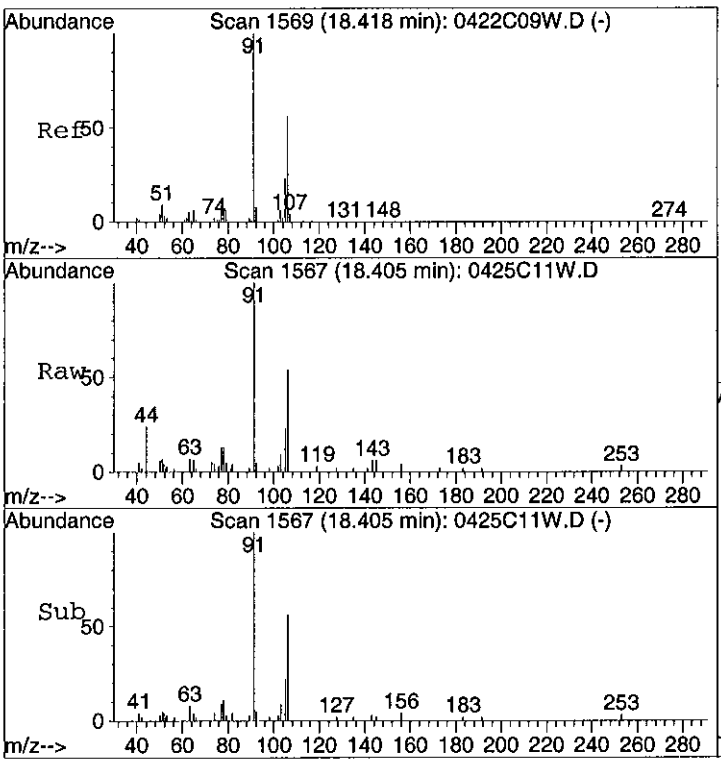


#32
Toluene
Concen: 0.20890 ppb
RT: 15.69 min Scan# 1286
Delta R.T. -0.01 min
Lab File: 0425C11W.D
Acq: 25 Apr 11 17:09

Tgt Ion: 92 Resp: 7607

Ion	Ratio	Lower	Upper
92	100		
91	208.7	114.2	212.0

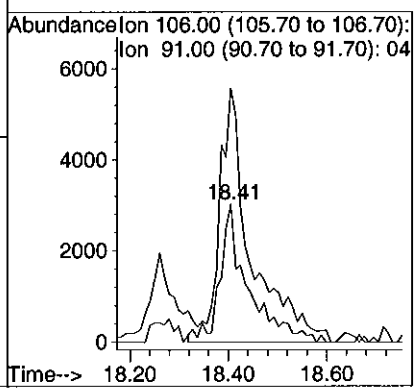


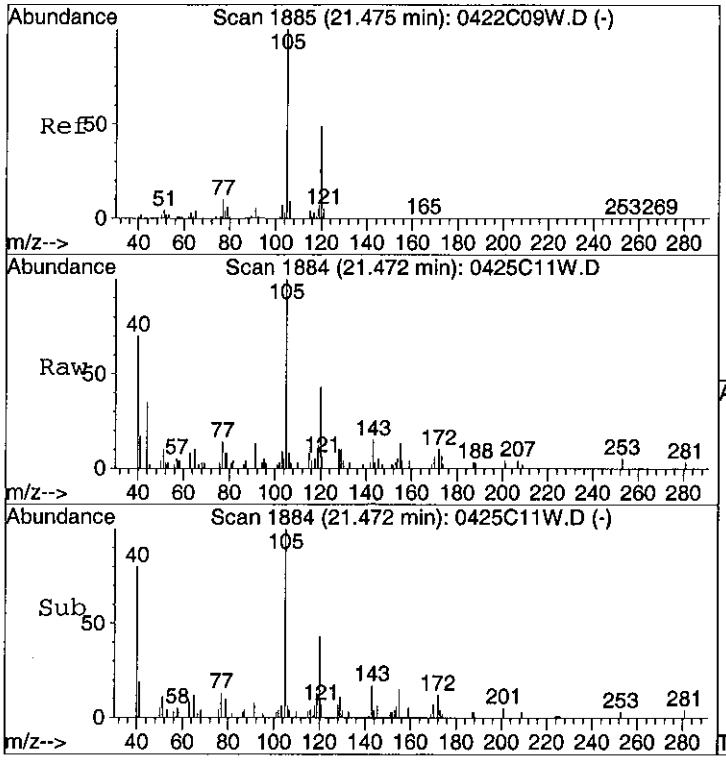


#41
m&p-Xylene
Concen: 0.38658 ppb
RT: 18.41 min Scan# 1567
Delta R.T. -0.01 min
Lab File: 0425C11W.D
Acq: 25 Apr 11 17:09

Tgt Ion:106 Resp: 11983

Ion	Ratio	Lower	Upper
106	100		
91	184.9	125.1	232.3

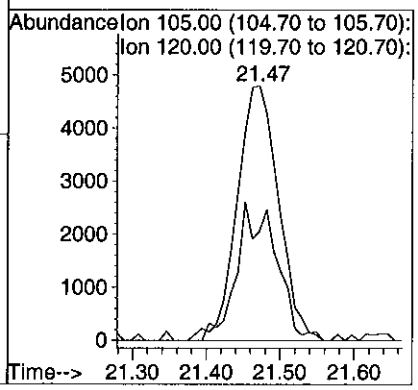


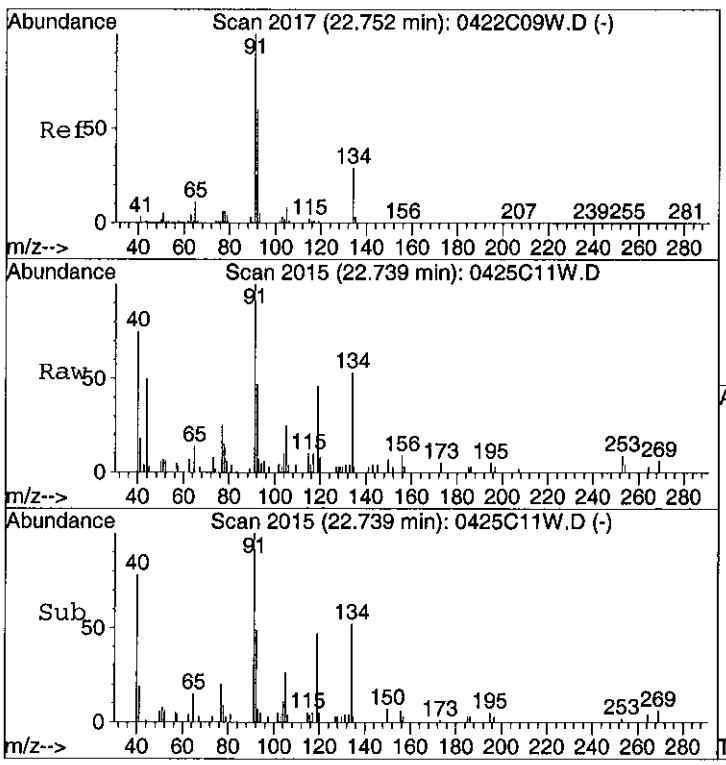


#62
1,2,4-Trimethylbenzene
Concen: 0.27208 ppb
RT: 21.47 min Scan# 1884
Delta R.T. -0.00 min
Lab File: 0425C11W.D
Acq: 25 Apr 11 17:09

Tgt Ion:105 Resp: 18785

Ion	Ratio	Lower	Upper
105	100		
120	42.9	34.9	64.9

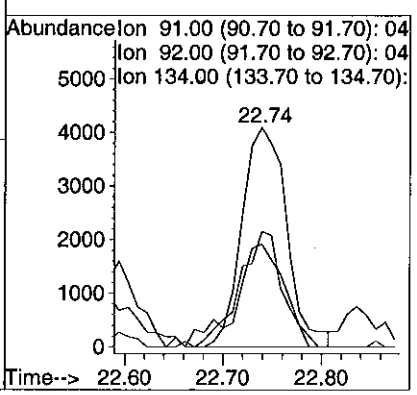




#67
n-Butylbenzene
Concen: 0.20073 ppb
RT: 22.74 min Scan# 2015
Delta R.T. -0.01 min
Lab File: 0425C11W.D
Acq: 25 Apr 11 17:09

Tgt Ion: 91 Resp: 13512

Ion	Ratio	Lower	Upper
91	100		
92	47.0	42.3	78.5
134	52.7	20.4	38.0#



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C11W.D Vial: 1
Acq On : 25 Apr 11 17:09 Operator: RS
Sample : AY36384W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	1062260	25.00000 ppb	-0.01
4) Chlorobenzene-D5 (IS)	18.09	TIC	1127161	25.00000 ppb	-0.01
7) 1,4-Dichlorobenzene-D (IS)	22.28	TIC	1226575	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.48	TIC	1286109	21.80713 ppb	0.00
Spiked Amount 23.521			Recovery =	92.713%	
5) Toluene-D8(S)	15.55	TIC	3725512	26.13772 ppb	-0.01
Spiked Amount 26.002			Recovery =	100.523%	
6) 4-Bromofluorobenzene(S)	20.16	TIC	2484348	26.20073 ppb	-0.01
Spiked Amount 26.339			Recovery =	99.476%	

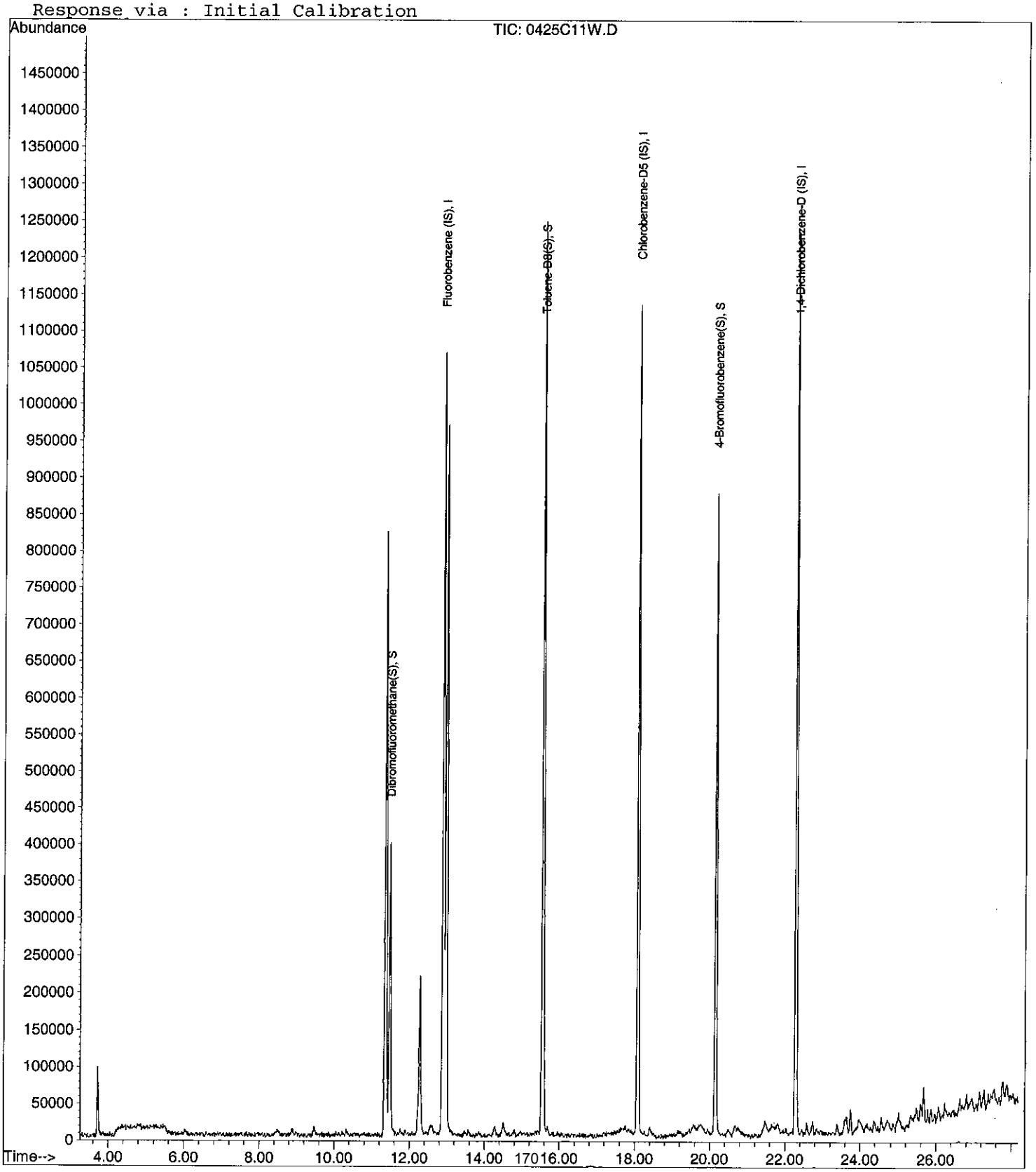
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C11W.D Vial: 1
Acq On : 25 Apr 11 17:09 Operator: RS
Sample : AY36384W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES028

APPL ID: AY36385

Sample Collection Date: 04/21/11

QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/25/11	04/25/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/25/11	04/25/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/25/11	04/25/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/25/11	04/25/11
EPA 8260B	BENZENE	0.42 J	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/25/11	04/25/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/25/11	04/25/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/25/11	04/25/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/25/11	04/25/11

J = Estimated value.

Quant Method: C86DODW.M
Run #: 0425C12
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES028

APPL ID: AY36385

Sample Collection Date: 04/21/11

QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/25/11	04/25/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	83.8	70-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	91.5	75-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	90.1	85-115			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	88.4	85-120			%	04/25/11	04/25/11

J = Estimated value.

Quant Method: C86DODW.M
Run #: 0425C12
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C12W.D Vial: 1
Acq On : 25 Apr 11 17:45 Operator: RS
Sample : AY36385W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:47 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

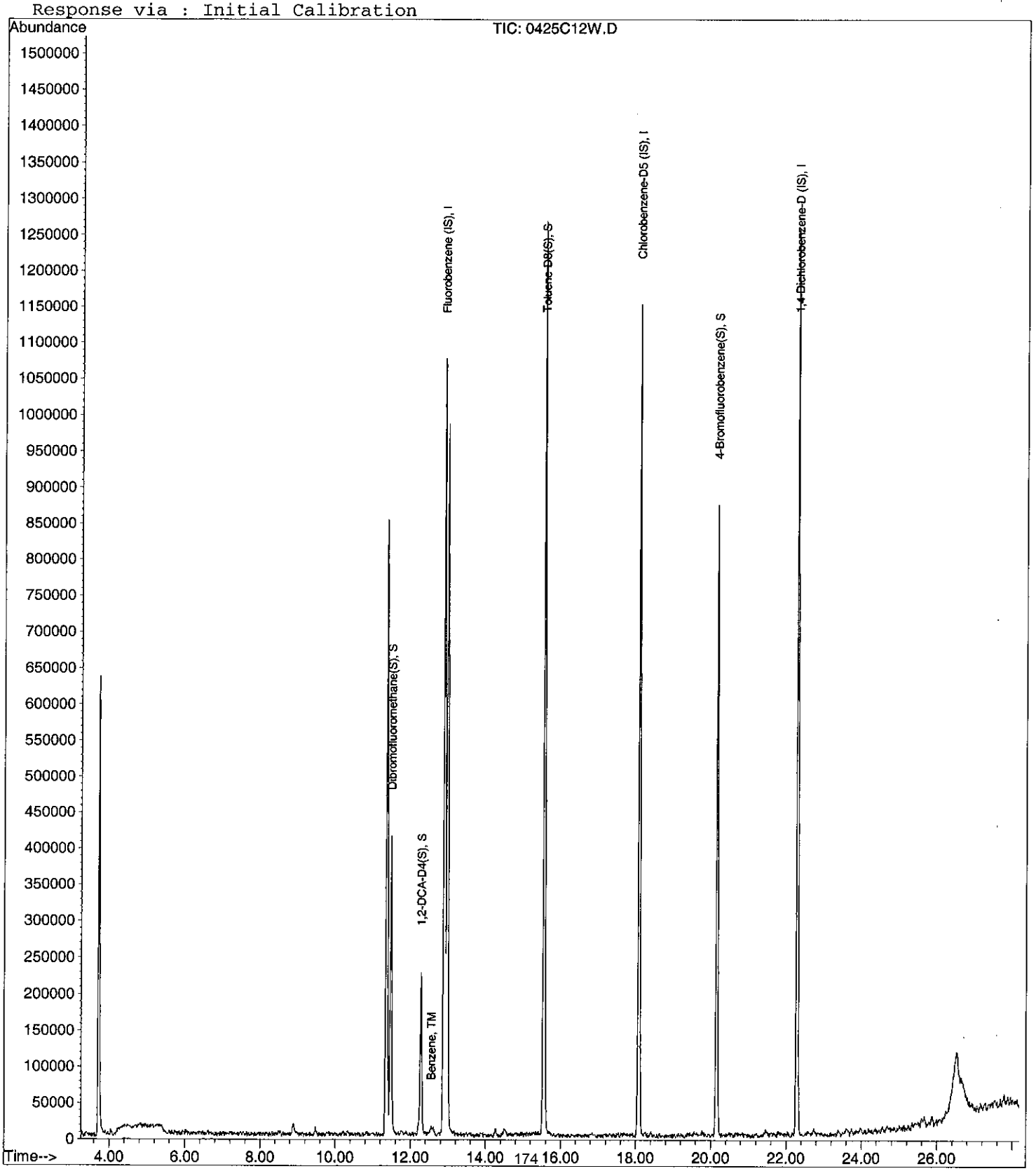
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	96	588416	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.08	117	454400	25.00000 ppb	-0.02
51) 1,4-Dichlorobenzene-D (IS)	22.28	152	263168	25.00000 ppb	-0.02
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.48	111	398178	21.19052 ppb	-0.02
Spiked Amount 23.521			Recovery =	90.096%	
23) 1,2-DCA-D4(S)	12.28	65	224070	18.69960 ppb	-0.02
Spiked Amount 22.321			Recovery =	83.779%	
36) Toluene-D8(S)	15.55	98	1485164	22.97886 ppb	-0.02
Spiked Amount 26.002			Recovery =	88.375%	
44) 4-Bromofluorobenzene(S)	20.15	95	515881	24.09351 ppb	-0.02
Spiked Amount 26.339			Recovery =	91.478%	
Target Compounds					Qvalue
26) Benzene	12.56	78	20900	0.41800 ppb	90

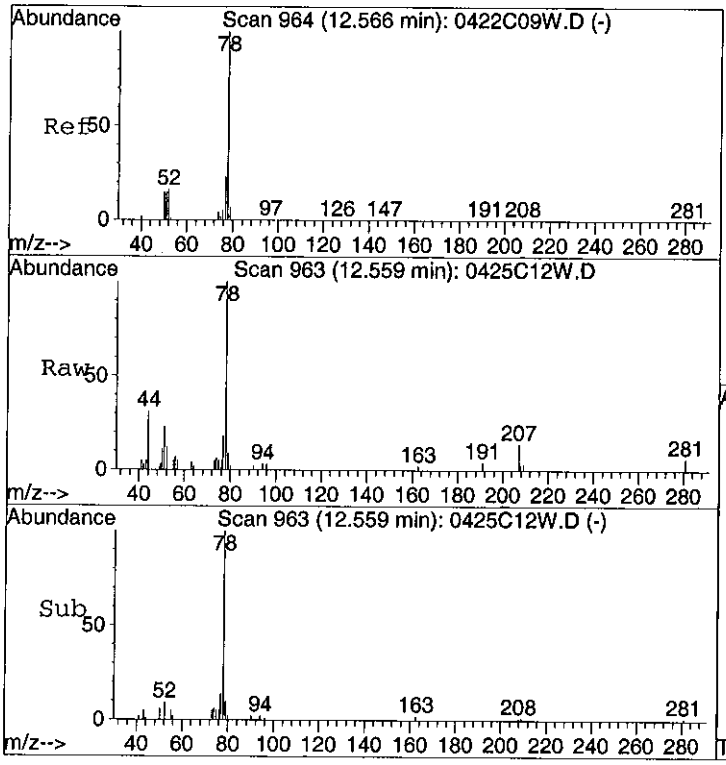
Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C12W.D Vial: 1
Acq On : 25 Apr 11 17:45 Operator: RS
Sample : AY36385W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:47 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration

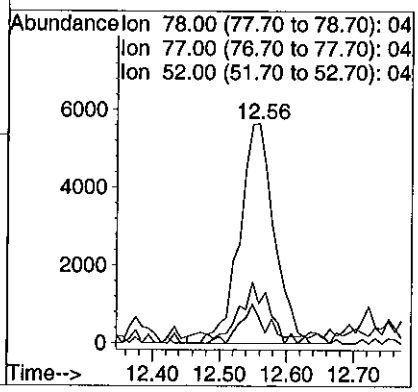




#26
Benzene
Concen: 0.41800 ppb
RT: 12.56 min Scan# 963
Delta R.T. -0.01 min
Lab File: 0425C12W.D
Acq: 25 Apr 11 17:45

Tgt Ion: 78 Resp: 20900

Ion	Ratio	Lower	Upper
78	100		
77	18.0	15.8	29.3
52	11.6	11.3	20.9



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C12W.D
Acq On : 25 Apr 11 17:45
Sample : AY36385W01
Misc : Water 10ml w/IS&S: 04-12-11

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

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	1072274	25.00000 ppb	-0.02
4) Chlorobenzene-D5 (IS)	18.08	TIC	1150255	25.00000 ppb	-0.02
7) 1,4-Dichlorobenzene-D (IS)	22.28	TIC	1252093	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.48	TIC	1326312	22.27878 ppb	0.00
Spiked Amount 23.521			Recovery =	94.720%	
5) Toluene-D8(S)	15.55	TIC	3840854	26.40593 ppb	-0.02
Spiked Amount 26.002			Recovery =	101.554%	
6) 4-Bromofluorobenzene(S)	20.15	TIC	2499766	25.83403 ppb	-0.02
Spiked Amount 26.339			Recovery =	98.083%	

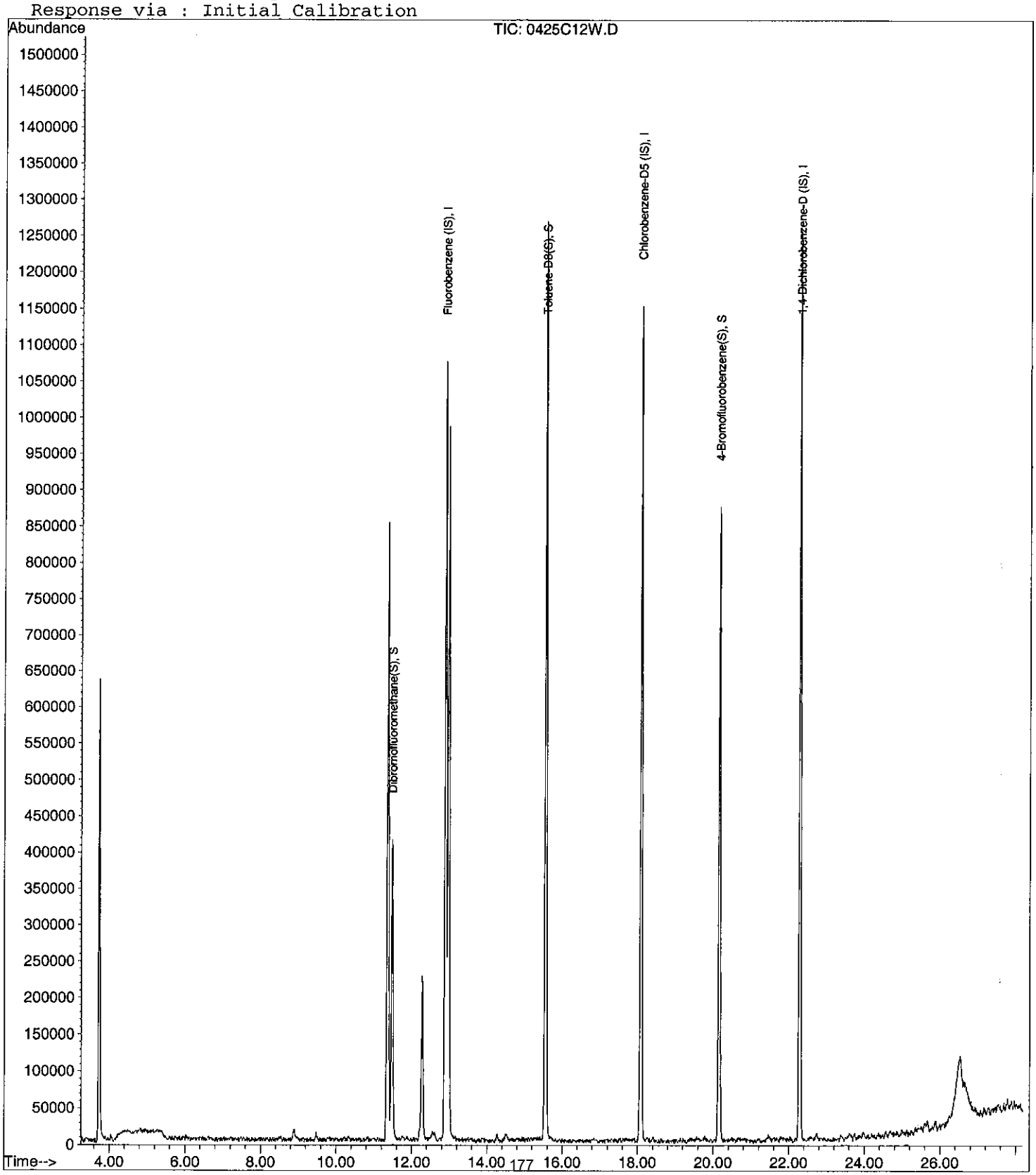
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C12W.D Vial: 1
Acq On : 25 Apr 11 17:45 Operator: RS
Sample : AY36385W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 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: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES030
Sample Collection Date: 04/21/11

ARF: 64484
APPL ID: AY36386
QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/25/11	04/25/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/25/11	04/25/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/25/11	04/25/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/25/11	04/25/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/25/11	04/25/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/25/11	04/25/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/25/11	04/25/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/25/11	04/25/11

Quant Method: C86DODW.M
Run #: 0425C13
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES030

APPL ID: AY36386

Sample Collection Date: 04/21/11

QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/25/11	04/25/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	85.1	70-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	93.3	75-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	89.4	85-115			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	90.1	85-120			%	04/25/11	04/25/11

Quant Method: C86DODW.M
Run #: 0425C13
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C13W.D Vial: 1
Acq On : 25 Apr 11 18:20 Operator: RS
Sample : AY36386W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:50 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	96	590784	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.08	117	434240	25.00000 ppb	-0.02
51) 1,4-Dichlorobenzene-D (IS)	22.28	152	255040	25.00000 ppb	-0.02
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.47	111	396646	21.02438 ppb	-0.02
Spiked Amount 23.521			Recovery =	89.386%	
23) 1,2-DCA-D4(S)	12.28	65	228516	18.99420 ppb	0.00
Spiked Amount 22.321			Recovery =	85.096%	
36) Toluene-D8(S)	15.55	98	1446989	23.42760 ppb	0.00
Spiked Amount 26.002			Recovery =	90.101%	
44) 4-Bromofluorobenzene(S)	20.15	95	502098	24.56307 ppb	-0.02
Spiked Amount 26.339			Recovery =	93.259%	

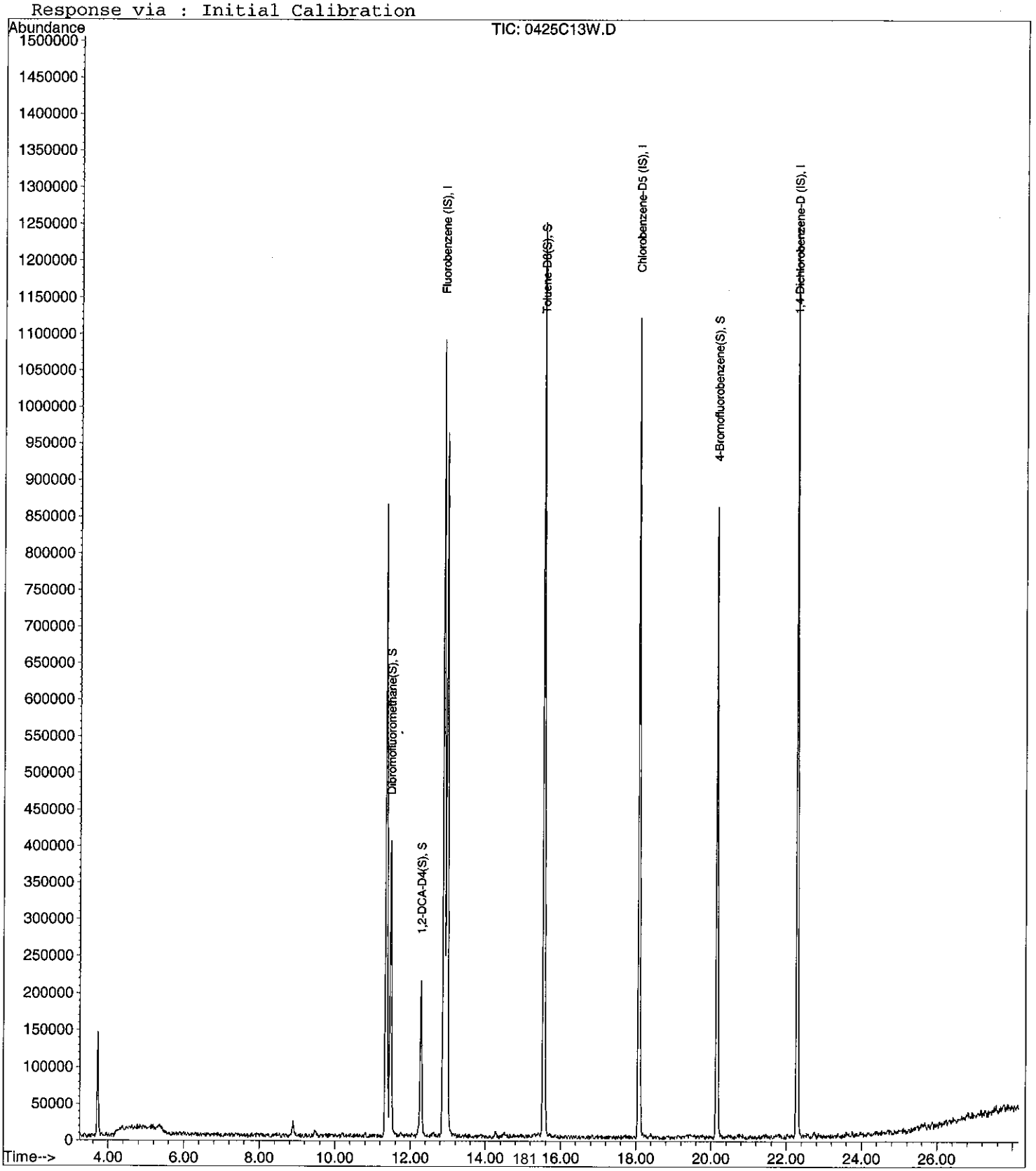
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C13W.D Vial: 1
Acq On : 25 Apr 11 18:20 Operator: RS
Sample : AY36386W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:50 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C13W.D Vial: 1
Acq On : 25 Apr 11 18:20 Operator: RS
Sample : AY36386W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	1087935	25.00000	ppb	-0.01
4) Chlorobenzene-D5 (IS)	18.08	TIC	1118379	25.00000	ppb	-0.02
7) 1,4-Dichlorobenzene-D (IS)	22.28	TIC	1250036	25.00000	ppb	-0.01
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.47	TIC	1322605	21.89670	ppb	-0.01
Spiked Amount 23.521			Recovery =	93.096%		
5) Toluene-D8(S)	15.55	TIC	3739776	26.44383	ppb	-0.01
Spiked Amount 26.002			Recovery =	101.700%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	2474898	26.30603	ppb	-0.01
Spiked Amount 26.339			Recovery =	99.875%		

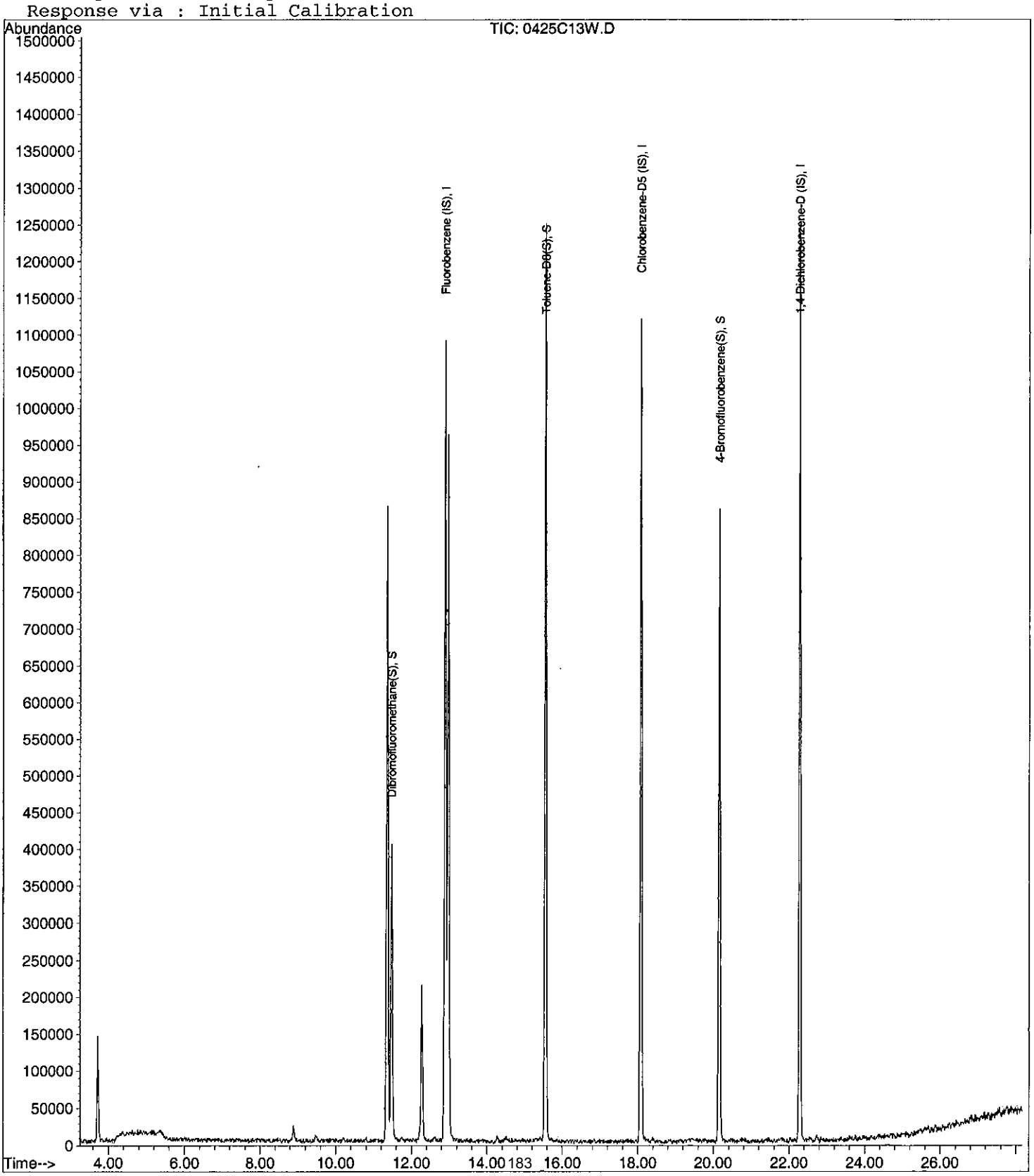
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C13W.D Vial: 1
Acq On : 25 Apr 11 18:20 Operator: RS
Sample : AY36386W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES031

APPL ID: AY36387

Sample Collection Date: 04/21/11

QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/25/11	04/25/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/25/11	04/25/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/25/11	04/25/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/25/11	04/25/11
EPA 8260B	BENZENE	0.29 J	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/25/11	04/25/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/25/11	04/25/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/25/11	04/25/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/25/11	04/25/11

J = Estimated value.

Quant Method: C86DODW.M
Run #: 0425C15
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES031

APPL ID: AY36387

Sample Collection Date: 04/21/11

QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/25/11	04/25/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	89.7	70-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	89.8	75-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	90.9	85-115			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	85.9	85-120			%	04/25/11	04/25/11

J = Estimated value.

Quant Method: C86DODW.M
Run #: 0425C15
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C15W.D Vial: 1
Acq On : 25 Apr 11 19:30 Operator: RS
Sample : AY36387W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:21 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

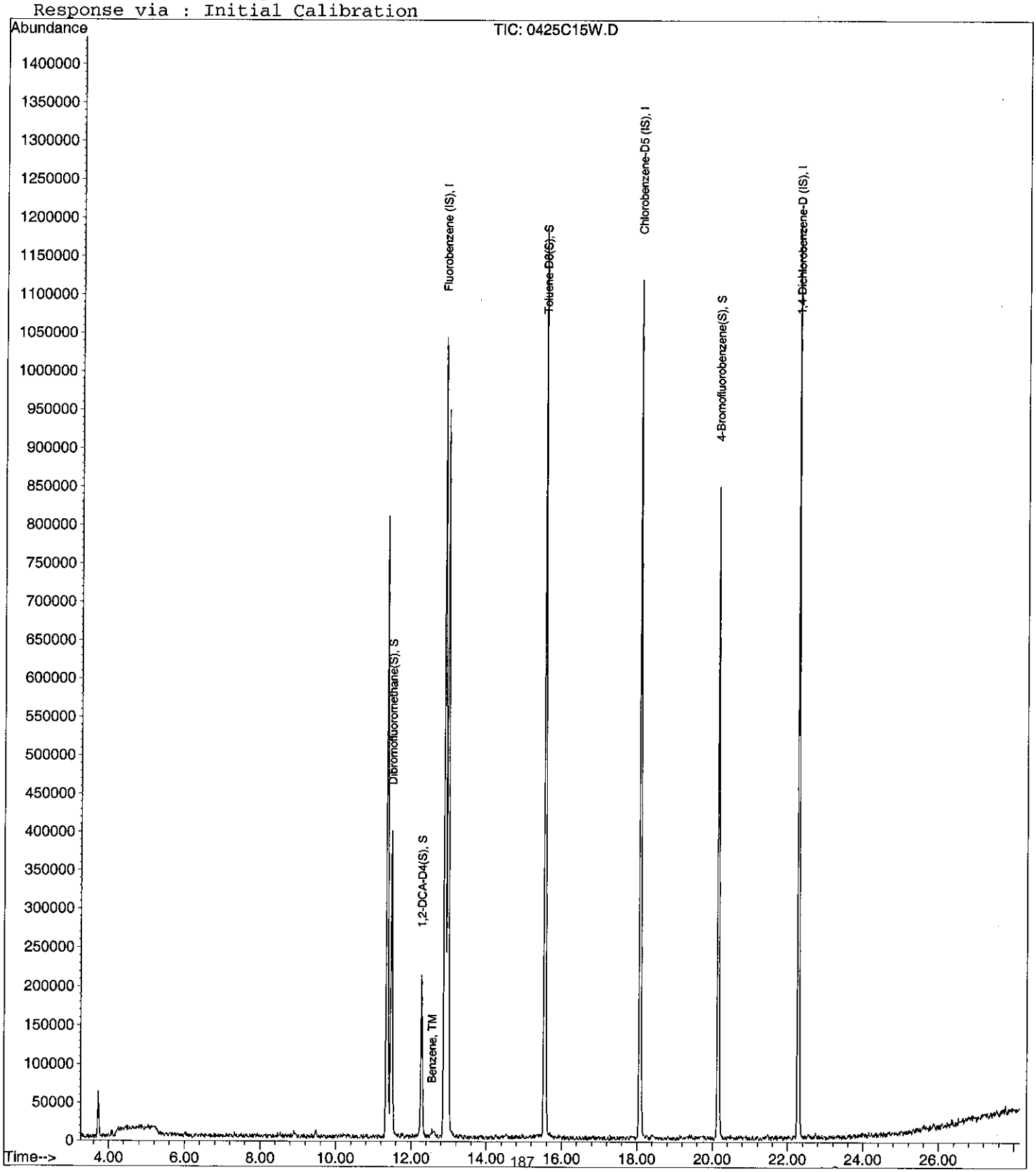
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	96	558272	25.00000 ppb	-0.01
35) Chlorobenzene-D5 (IS)	18.08	117	434624	25.00000 ppb	-0.01
51) 1,4-Dichlorobenzene-D (IS)	22.28	152	246336	25.00000 ppb	-0.01
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.48	111	381095	21.37648 ppb	-0.01
Spiked Amount 23.521			Recovery =	90.882%	
23) 1,2-DCA-D4(S)	12.28	65	227512	20.01205 ppb	-0.01
Spiked Amount 22.321			Recovery =	89.657%	
36) Toluene-D8(S)	15.55	98	1381143	22.34176 ppb	-0.01
Spiked Amount 26.002			Recovery =	85.925%	
44) 4-Bromofluorobenzene(S)	20.15	95	484834	23.65062 ppb	-0.01
Spiked Amount 26.339			Recovery =	89.796%	
Target Compounds					Qvalue
26) Benzene	12.55	78	13630	0.28732 ppb	94

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C15W.D Vial: 1
Acq On : 25 Apr 11 19:30 Operator: RS
Sample : AY36387W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:21 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C15W.D Vial: 1
Acq On : 25 Apr 11 19:30 Operator: RS
Sample : AY36387W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	1040307	25.00000	ppb	-0.01
4) Chlorobenzene-D5 (IS)	18.08	TIC	1117387	25.00000	ppb	-0.01
7) 1,4-Dichlorobenzene-D (IS)	22.28	TIC	1191173	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.48	TIC	1278489	22.13538	ppb	0.00
Spiked Amount 23.521			Recovery =	94.107%		
5) Toluene-D8(S)	15.55	TIC	3572664	25.28461	ppb	-0.01
Spiked Amount 26.002			Recovery =	97.243%		
6) 4-Bromofluorobenzene(S)	20.15	TIC	2397480	25.50576	ppb	-0.01
Spiked Amount 26.339			Recovery =	96.837%		

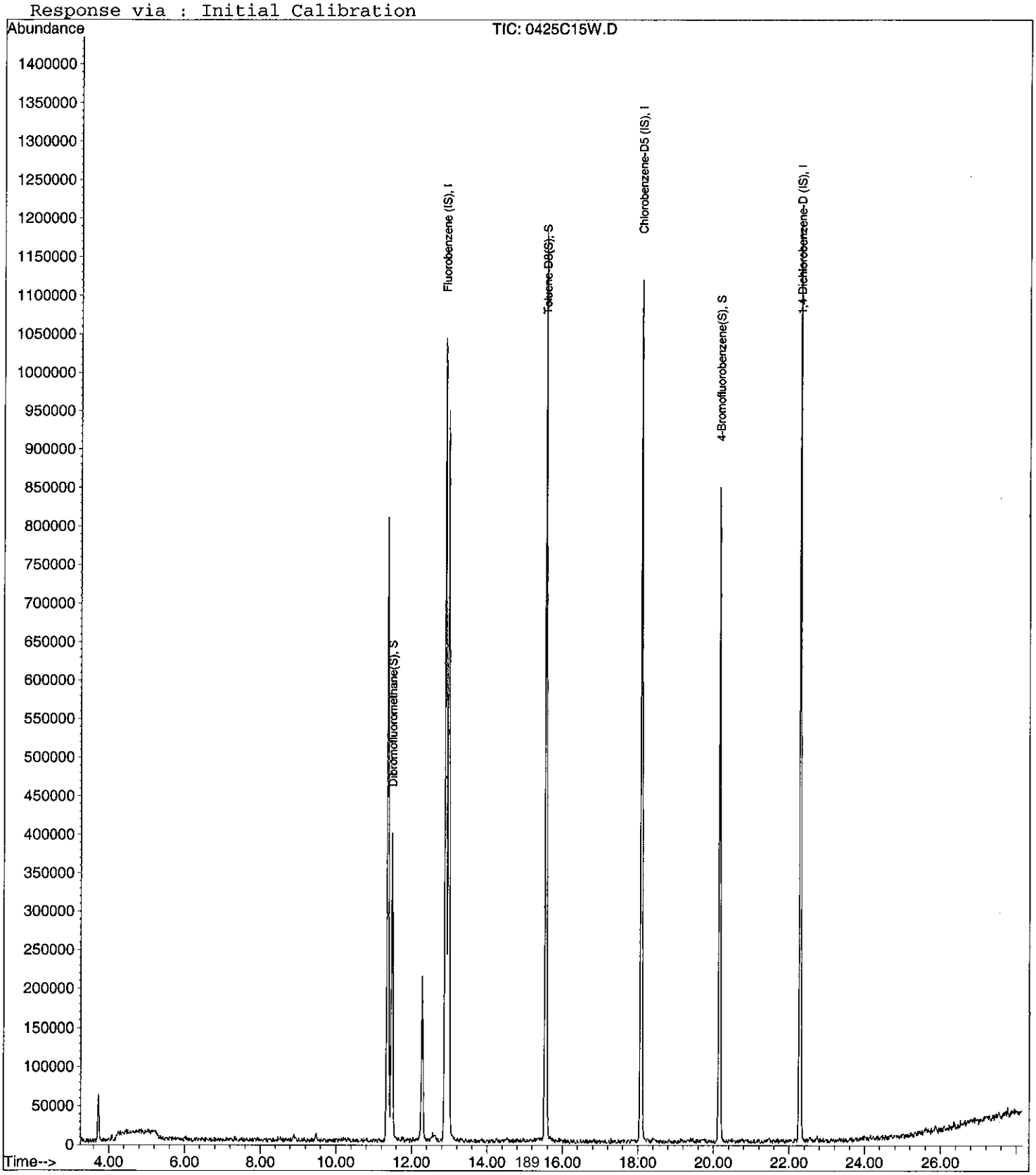
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C15W.D Vial: 1
Acq On : 25 Apr 11 19:30 Operator: RS
Sample : AY36387W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES032

APPL ID: AY36388

Sample Collection Date: 04/21/11

QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/25/11	04/25/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/25/11	04/25/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/25/11	04/25/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/25/11	04/25/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/25/11	04/25/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/25/11	04/25/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/25/11	04/25/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/25/11	04/25/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/25/11	04/25/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/25/11	04/25/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/25/11	04/25/11

Quant Method: C86DODW.M
Run #: 0425C14
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES032

APPL ID: AY36388

Sample Collection Date: 04/21/11

QCG: #86RHB-110425AC-155157

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	04/25/11	04/25/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/25/11	04/25/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	88.9	70-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	92.7	75-120			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	92.7	85-115			%	04/25/11	04/25/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	87.3	85-120			%	04/25/11	04/25/11

Quant Method: C86DODW.M
Run #: 0425C14
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:26:27 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C14W.D Vial: 1
Acq On : 25 Apr 11 18:55 Operator: RS
Sample : AY36388W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:31 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	96	556992	25.00000 ppb	-0.01
35) Chlorobenzene-D5 (IS)	18.09	117	438144	25.00000 ppb	-0.01
51) 1,4-Dichlorobenzene-D (IS)	22.28	152	249088	25.00000 ppb	-0.01
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.48	111	387937	21.81027 ppb	-0.01
Spiked Amount 23.521			Recovery =	92.728%	
23) 1,2-DCA-D4(S)	12.28	65	224959	19.83296 ppb	-0.01
Spiked Amount 22.321			Recovery =	88.855%	
36) Toluene-D8(S)	15.55	98	1414947	22.70470 ppb	-0.01
Spiked Amount 26.002			Recovery =	87.321%	
44) 4-Bromofluorobenzene(S)	20.16	95	503630	24.41064 ppb	-0.01
Spiked Amount 26.339			Recovery =	92.682%	

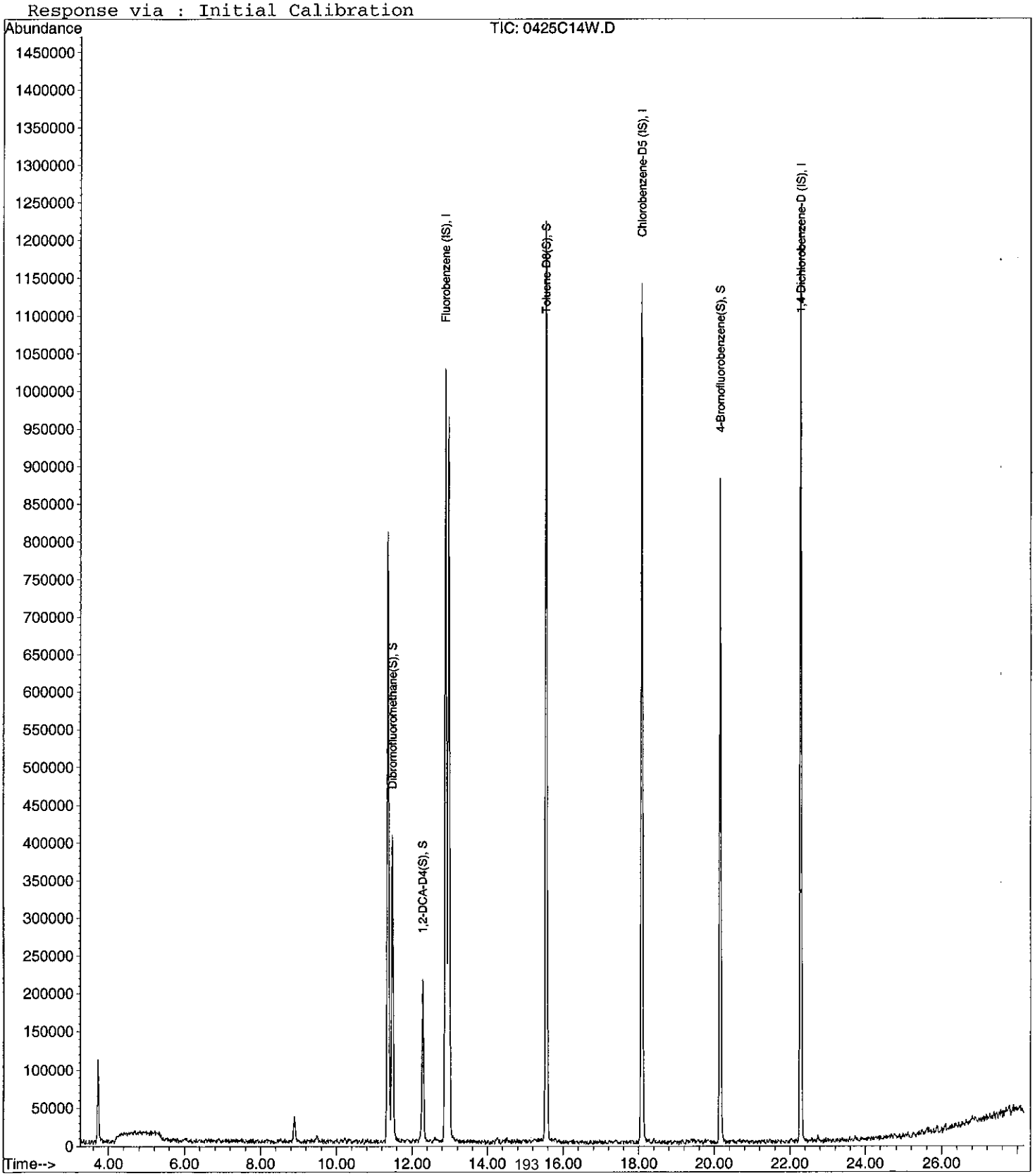
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C14W.D Vial: 1
Acq On : 25 Apr 11 18:55 Operator: RS
Sample : AY36388W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:31 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C14W.D Vial: 1
Acq On : 25 Apr 11 18:55 Operator: RS
Sample : AY36388W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	1024780	25.00000	ppb	-0.01
4) Chlorobenzene-D5 (IS)	18.09	TIC	1140387	25.00000	ppb	-0.01
7) 1,4-Dichlorobenzene-D (IS)	22.28	TIC	1220082	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.48	TIC	1259747	22.14136	ppb	0.00
Spiked Amount 23.521			Recovery =	94.133%		
5) Toluene-D8(S)	15.55	TIC	3654210	25.34014	ppb	-0.01
Spiked Amount 26.002			Recovery =	97.454%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	2463547	25.68003	ppb	-0.01
Spiked Amount 26.339			Recovery =	97.498%		

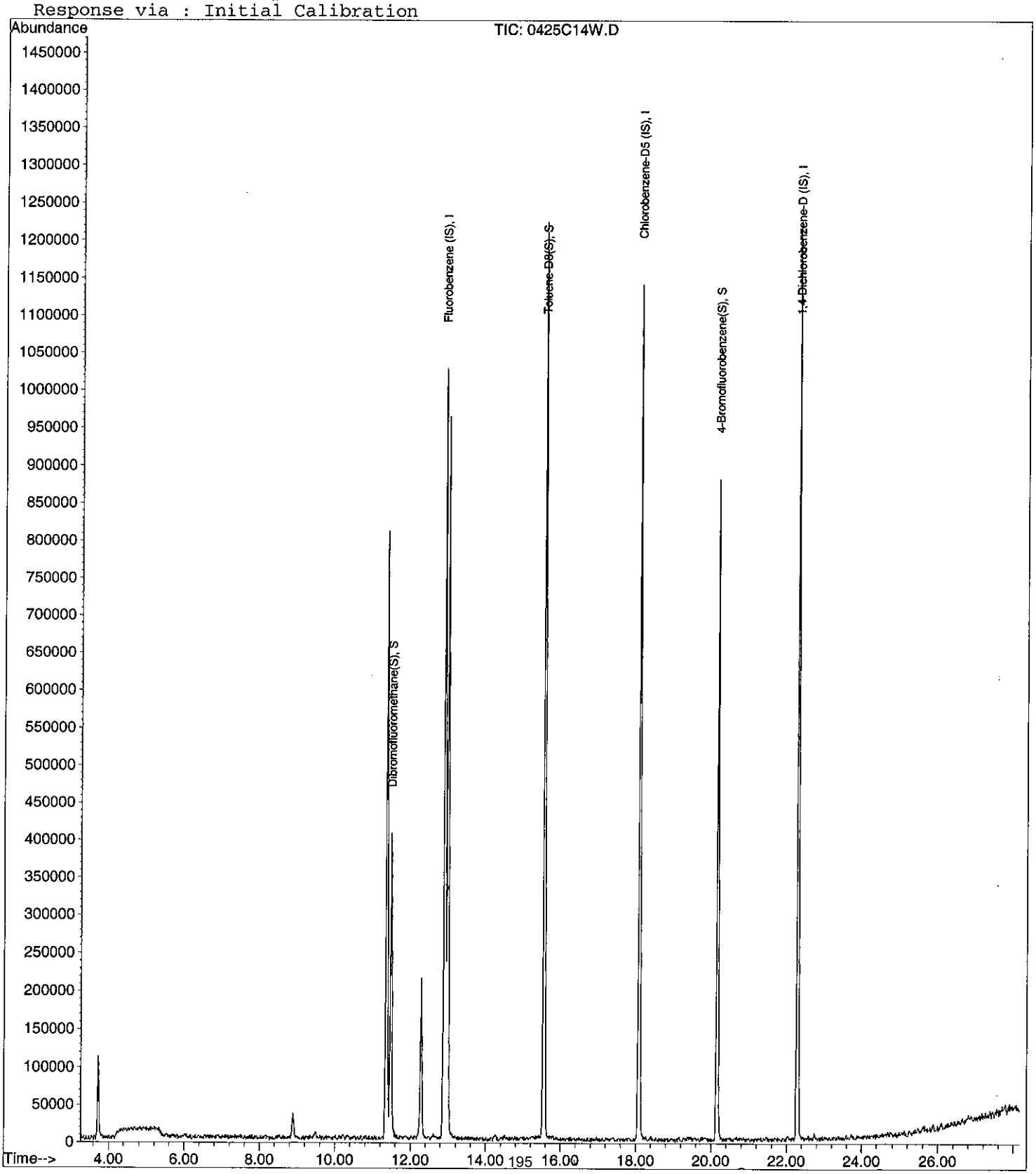
Target Compounds Qvalue

Data File : M:\CHICO\DATA\C110422\0425C14W.D
Acq On : 25 Apr 11 18:55
Sample : AY36388W01
Misc : Water 10ml w/IS&S: 04-12-11

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

Quant Time: May 16 20:01 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 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.
Case No:
Matrix:
SDG No: 64484
Initial Cal. Date: 04/22/11
Instrument: Chico
Initials:

		Compound	0422C05W.D 0.5	0422C06W.D 1	0422C07W.D 2	0422C08W.D 5	0422C09W.D 10	0422C10W.D 20	0422C11W.D 40	0422C12W.D 100			Avg	%RSD		
1	I	Fluorobenzene (IS)	ISTD													
2	TM	Dichlorodifluoromethane	0.7511	0.8834	0.8372	0.7082	0.7787	0.9423	0.9349	0.8079			0.83	10	TM	
3	TM**	Chloromethane	0.7881	0.7685	0.7133	0.7781	0.7745	0.8422	0.7848	0.7508			0.78	4.7	TM**	
4	TM*	Vinyl chloride	0.2579	0.2484	0.1842	0.2342	0.2216	0.2150	0.1983	0.2097			0.22	11	TM*	
5	TML	Bromomethane	0.1966	0.1487	0.1324	0.1878	0.2036	0.2155	0.2113	0.2016			0.19	16	TML	0.999
6	TM	Chloroethane	0.4912	0.4894	0.5523	0.5689	0.5057	0.5259	0.4910	0.4644			0.51	6.9	TM	
7	TM	Trichlorofluoromethane	0.9114	1.104	1.015	1.050	1.079	1.166	1.091	0.9854			1.1	7.5	TM	
8	TML	Acetone	0.1638	0.1068	0.0749	0.0642	0.0531	0.0470	0.0442	0.0414			0.07	56	TML	0.999
9	TM*	1,1-DCE	0.5136	0.5710	0.4552	0.4887	0.4779	0.5062	0.4702	0.4523			0.49	7.9	TM*	
10	TML	Methylene chloride	0.8288	0.6660	0.5454	0.5651	0.5026	0.5136	0.4580	0.4432			0.57	22	TML	0.999
11	TM	Carbon disulfide	1.653	1.784	1.662	2.246	2.198	2.356	2.184	2.107			2.0	14	TM	
12	TM	Methyl t-butyl ether (MtBE)	0.7832	0.8713	0.7656	0.9016	0.8447	0.8905	0.8161	0.7995			0.83	6.1	TM	
13	TML	Trans-1,2-DCE	0.8102	0.5838	0.5381	0.5815	0.5304	0.5818	0.5307	0.5346			0.59	16	TML	1.000
14	TM**	1,1-DCA	1.153	1.037	0.9644	1.104	0.9937	1.049	0.9481	0.9012			1.0	8.2	TM**	
15	TM	MEK (2-Butanone)		0.2196	0.1892	0.2114	0.1945	0.2028	0.1750	0.1646			0.19	10	TM	
16	TM	Cis-1,2-DCE	0.8105	0.7800	0.6856	0.7742	0.7170	0.7345	0.6745	0.6451			0.73	7.9	TM	
17	TM	2,2-Dichloropropane	1.030	1.024	1.003	0.9660	0.9124	0.9416	0.8479	0.8101			0.94	8.6	TM	
18	TM*	Chloroform	1.061	1.152	1.021	1.216	1.114	1.153	1.047	1.006			1.1	6.8	TM*	
19	TM	Bromochloromethane	0.2497	0.2400	0.2234	0.2523	0.2452	0.2634	0.2407	0.2351			0.24	4.9	TM	
20	S	Dibromofluoromethane(S)	0.9508	0.9357	0.8784	0.7826	0.7184	0.7541	0.6852	0.6816			0.80	14	S	
21	TM	1,1,1-TCA	1.179	1.078	0.9585	1.104	1.075	1.120	1.026	0.9740			1.1	7.0	TM	
22	TM	1,1-Dichloropropene	0.6816	0.7392	0.7140	0.6908	0.6902	0.7237	0.6789	0.6360			0.69	4.6	TM	
23	S	1,2-DCA-D4(S)	0.6091	0.5914	0.5896	0.5033	0.4542	0.4804	0.4242	0.4207			0.51	15	S	
24	TM	Carbon Tetrachloride	0.9570	0.9839	0.8852	0.9512	0.9389	0.9840	0.9148	0.8508			0.93	5.0	TM	
25	TM	1,2-DCA	0.4414	0.4105	0.4832	0.5238	0.4650	0.4904	0.4419	0.4206			0.46	8.3	TM	
26	TM	Benzene	2.239	2.223	2.104	2.250	2.061	2.169	1.994	1.955			2.1	5.4	TM	
27	TM	TCE	0.6890	0.7358	0.7035	0.6963	0.6918	0.7464	0.6810	0.6456			0.70	4.5	TM	
28	TM*	1,2-Dichloropropane	0.6033	0.5459	0.4811	0.5528	0.4981	0.5326	0.4854	0.4718			0.52	8.7	TM*	
29	TM	Bromodichloromethane	0.8143	0.7133	0.7100	0.8089	0.7113	0.7482	0.7110	0.6859			0.74	6.6	TM	
30	TM	Dibromomethane	0.2585	0.2640	0.2018	0.2716	0.2587	0.2751	0.2463	0.2397			0.25	9.3	TM	
31	TM	Cis-1,3-Dichloropropene	0.7855	0.7368	0.6974	0.7989	0.7243	0.7569	0.7107	0.7033			0.74	5.1	TM	
32	TM*	Toluene	1.540	1.690	1.540	1.669	1.516	1.618	1.480	1.452			1.6	5.6	TM*	
33	TM	Trans-1,3-Dichloropropene	0.5881	0.5682	0.5095	0.5711	0.5473	0.5746	0.5348	0.5242			0.55	5.0	TM	
34	TM	1,1,2-TCA	0.2135	0.2585	0.2447	0.2731	0.2529	0.2672	0.2457	0.2464			0.25	7.2	TM	
35	I	Chlorobenzene-D5 (IS)	ISTD													

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

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

SDG No: 64484
Initial Cal. Date: 04/22/11
Instrument: Chico

Initials:

		Compound	0.5	1	2	5	10	20	40	100			Avg	%RSD		
36	S	Toluene-D8(S)	4.140	4.009	4.215	3.360	3.264	3.213	3.102	3.143			3.6	13	S	
37	TM	1,2-EDB	0.4724	0.3780	0.4332	0.4685	0.4522	0.4357	0.4368	0.4453			0.44	6.6	TM	
38	TM	Tetrachloroethene	0.9067	0.9001	0.8915	0.8683	0.9259	0.8526	0.8520	0.8266			0.88	3.8	TM	
39	TM	1-Chlorohexane	1.554	1.485	1.272	1.341	1.344	1.366	1.370	1.343			1.4	6.5	TM	
40	TM	1,1,1,2-Tetrachloroethane	0.8482	0.9284	0.9181	0.9380	0.9023	0.9140	0.8782	0.8728			0.90	3.4	TM	
41	TM	m&p-Xylene	1.846	1.752	1.758	1.816	1.758	1.722	1.669	1.646			1.7	3.9	TM	
42	TM	o-Xylene	1.698	1.766	1.599	1.845	1.775	1.773	1.668	1.646			1.7	4.8	TM	
43	TM	Styrene	1.531	1.332	1.122	1.330	1.299	1.266	1.172	1.113			1.3	11	TM	
44	SL	4-Bromofluorobenzene(S)	1.999	1.720	1.516	1.230	1.189	1.196	1.124				1.4	23	SL	0.999
45	TM	2-Hexanone	0.1372	0.1221	0.1268	0.1361	0.1262	0.1312	0.1265	0.1272			0.13	4.1	TM	
46	TM	1,3-Dichloropropane	0.7256	0.6902	0.6716	0.7780	0.6994	0.7050	0.7032	0.6981			0.71	4.5	TM	
47	TM	Dibromochloromethane	0.6442	0.7197	0.6495	0.7546	0.7052	0.6954	0.6747	0.6889			0.69	5.3	TM	
48	TM**	Chlorobenzene	2.691	2.480	2.484	2.669	2.575	2.503	2.437	2.386			2.5	4.3	TM**	
49	TM*	Ethylbenzene	4.510	4.351	4.235	4.354	4.311	4.221	4.073	4.036			4.3	3.6	TM*	
50	TM**	Bromoform	0.3839	0.4029	0.3732	0.4208	0.4237	0.4299	0.4154	0.4184			0.41	5.0	TM**	
51	I	1,4-Dichlorobenzene-D (IS)	ISTD													
52	TM	MIBK (methyl isobutyl ketone)	0.4286	0.5151	0.4852	0.4155	0.3700	0.3790	0.3519	0.3772			0.42	14	TM	
53	TM	Isopropylbenzene	8.823	8.575	8.724	8.922	8.798	8.382	8.026	8.213			8.6	3.7	TM	
54	TM**	1,1,2,2-Tetrachloroethane	0.6823	0.7362	0.6557	0.7673	0.6986	0.6941	0.6753	0.7104			0.70	5.1	TM**	
55	TM	1,2,3-Trichloropropane	0.1832	0.1719	0.2355	0.2672	0.2288	0.2255	0.2249	0.2242			0.22	14	TM	
56	TM	Bromobenzene	2.475	2.278	2.013	2.054	2.007	1.884	1.827	1.873			2.1	11	TM	
57	TM	n-Propylbenzene	10.2	9.697	9.765	9.877	9.753	9.373	9.067	9.143			9.6	4.0	TM	
58	TM	2-Chlorotoluene	6.722	6.698	6.581	6.766	6.514	6.010	5.771	5.875			6.4	6.5	TM	
59	TM	1,3,5-Trimethylbenzene	6.446	7.304	6.753	7.162	6.971	6.425	6.347	6.436			6.7	5.6	TM	
60	TM	4-Chlorotoluene	6.336	6.140	5.326	5.570	5.431	5.305	4.955	5.009			5.5	9.0	TM	
61	TM	Tert-Butylbenzene	7.412	7.802	7.156	7.510	7.699	7.368	7.005	7.128			7.4	3.8	TM	
62	TM	1,2,4-Trimethylbenzene	6.965	7.158	6.676	7.267	6.922	6.653	6.275	6.443			6.8	5.1	TM	
63	TM	Sec-Butylbenzene	10.1	9.906	9.435	9.617	9.555	9.424	9.010	9.083			9.5	3.8	TM	
64	TM	p-Isopropyltoluene	8.504	8.110	7.626	7.978	8.062	7.806	7.483	7.615			7.9	4.2	TM	
65	TM	1,3-DCB	4.929	4.372	4.009	4.371	4.177	4.018	3.857	3.881			4.2	8.4	TM	
66	TM	1,4-DCB	3.930	3.922	3.705	3.994	3.924	3.772	3.619	3.676			3.8	3.7	TM	
67	TM	n-Butylbenzene	7.864	6.895	6.447	6.547	6.571	6.440	6.113	6.122			6.6	8.5	TM	
68	TM	1,2-DCB	3.584	3.518	3.265	3.496	3.438	3.302	3.111	3.180			3.4	5.1	TM	
69	TM	1,2-Dibromo-3-chloropropane		0.2314	0.1595	0.2142	0.1658	0.1766	0.1703	0.1903			0.19	14	TM	
70	TM	1,2,4-Trichlorobenzene	1.455	1.239	1.081	1.209	1.133	1.141	1.070	1.046			1.2	11	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

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

SDG No: 64484
Initial Cal. Date: 04/22/11
Instrument: Chico

Initials:

		Compound	0.5	1	2	5	10	20	40	100			Avg	%RSD		
71	TM	Hexachlorobutadiene	0.7330	0.6240	0.6039	0.5873	0.5280	0.5409	0.4929	0.4959			0.58	14	TM	
72	TM	Naphthalene	1.380	1.300	1.212	1.270	1.192	1.203	1.152	1.228			1.2	5.8	TM	
73	TM	1,2,3-Trichlorobenzene	2.880	2.429	2.238	2.306	2.266	2.264	2.112	2.177			2.3	10	TM	
74																
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Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C04W.D Vial: 1
Acq On : 22 Apr 11 18:01 Operator: RS
Sample : Vol Std 04-22-11@0.3ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	416768	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	318912	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	185024	25.00000 ppb		-0.01
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	9178	0.71862 ppb		0.00
Spiked Amount 23.521			Recovery =	3.057%		
23) 1,2-DCA-D4(S)	12.29	65	6266	0.71182 ppb		0.00
Spiked Amount 22.321			Recovery =	3.190%		
36) Toluene-D8(S)	15.56	98	30563	0.70966 ppb		0.00
Spiked Amount 26.002			Recovery =	2.731%		
44) 4-Bromofluorobenzene(S)	20.17	95	19990	1.21850 ppb		0.00
Spiked Amount 26.339			Recovery =	4.624%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	3918	0.21726 ppb		84
3) Chloromethane	4.60	50	7629	0.45047 ppb		89
4) Vinyl chloride	4.87	62	2268	0.51606 ppb		95
5) Bromomethane	5.78	94	1667	0.49389 ppb	#	68
6) Chloroethane	5.97	64	5956	0.61889 ppb	#	77
7) Trichlorofluoromethane	6.60	101	5202	0.25201 ppb	#	60
8) Acetone	7.36	43	1723	1.20983 ppb		93
9) 1,1-DCE	7.74	96	4662	0.53522 ppb	#	84
10) Methylene chloride	8.54	84	5734	-0.38465 ppb		89
11) Carbon disulfide	8.63	76	14811	0.36904 ppb		98
12) Methyl t-butyl ether (MtBE	8.97	73	4566	0.30609 ppb	#	72
13) Trans-1,2-DCE	9.16	96	5313	0.54010 ppb	#	77
14) 1,1-DCA	9.86	63	6357	0.36895 ppb	#	90
15) MEK (2-Butanone)	10.51	43	1502	0.39573 ppb	#	80
16) Cis-1,2-DCE	10.88	96	5702	0.46202 ppb		79
17) 2,2-Dichloropropane	10.87	77	6662	0.38428 ppb	#	84
18) Chloroform	11.15	83	6388	0.32561 ppb		91
19) Bromochloromethane	11.38	128	1037	0.24807 ppb	#	1
21) 1,1,1-TCA	11.91	97	6308	0.32934 ppb		91
22) 1,1-Dichloropropene	12.18	75	5143	0.41588 ppb	#	87
24) Carbon Tetrachloride	12.37	117	5568	0.31457 ppb	#	78
25) 1,2-DCA	12.45	62	2920	0.33684 ppb	#	73
26) Benzene	12.57	78	14066	0.39791 ppb	#	94
27) TCE	13.60	95	4300	0.36979 ppb		86
28) 1,2-Dichloropropane	13.82	63	3155	0.38593 ppb	#	81
29) Bromodichloromethane	14.17	83	4033	0.30368 ppb	#	80
30) Dibromomethane	14.24	93	1043	0.23337 ppb		88
31) Cis-1,3-Dichloropropene	15.06	75	3909	0.31397 ppb		92
32) Toluene	15.70	92	10020	0.39346 ppb		95
33) Trans-1,3-Dichloropropene	15.85	75	3288	0.34440 ppb		95
34) 1,1,2-TCA	16.14	83	593	0.13730 ppb	#	49
37) 1,2-EDB	17.37	107	1912	0.33131 ppb	#	77
38) Tetrachloroethene	16.85	164	3918	0.34500 ppb	#	84
39) 1-Chlorohexane	17.76	91	6594	0.36901 ppb		94
40) 1,1,1,2-Tetrachloroethane	18.20	131	3548	0.29405 ppb		83
41) m&p-Xylene	18.42	106	17654	0.77218 ppb		82
42) o-Xylene	19.16	106	8421	0.37483 ppb		99
43) Styrene	19.17	78	8041	0.45964 ppb		71
45) 2-Hexanone	16.15	43	731	0.39378 ppb	#	35

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C04W.D Vial: 1
Acq On : 22 Apr 11 18:01 Operator: RS
Sample : Vol Std 04-22-11@0.3ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.54	76	2618	0.28235	ppb	#	67
47)	Dibromochloromethane	17.01	129	3112	0.33914	ppb		76
48)	Chlorobenzene	18.18	112	11497	0.35047	ppb	#	82
49)	Ethylbenzene	18.27	91	21489	0.38075	ppb		98
50)	Bromoform	19.70	173	1479	0.26958	ppb		83
52)	MIBK (methyl isobutyl keto	14.73	43	1461	0.49153	ppb	#	65
53)	Isopropylbenzene	19.79	105	21426	0.35139	ppb		100
54)	1,1,2,2-Tetrachloroethane	19.96	83	1811	0.36654	ppb	#	87
55)	1,2,3-Trichloropropane	20.21	110	816	0.47623	ppb	#	27
56)	Bromobenzene	20.53	156	6213	0.43241	ppb	#	69
57)	n-Propylbenzene	20.50	91	28004	0.40507	ppb		96
58)	2-Chlorotoluene	20.79	91	18616	0.40615	ppb		82
59)	1,3,5-Trimethylbenzene	20.77	105	18791	0.38826	ppb		90
60)	4-Chlorotoluene	20.87	91	18466	0.46613	ppb	#	72
61)	Tert-Butylbenzene	21.42	119	20679	0.38774	ppb	#	94
62)	1,2,4-Trimethylbenzene	21.46	105	19007	0.38690	ppb		99
63)	Sec-Butylbenzene	21.81	105	26733	0.39094	ppb		88
64)	p-Isopropyltoluene	22.05	119	23884	0.41613	ppb		92
65)	1,3-DCB	22.17	146	13342	0.44846	ppb		86
66)	1,4-DCB	22.35	146	10562	0.37864	ppb	#	74
67)	n-Butylbenzene	22.75	91	22220	0.46616	ppb		94
68)	1,2-DCB	22.98	146	9954	0.41686	ppb		91
69)	1,2-Dibromo-3-chloropropan	24.19	157	319	0.24513	ppb		80
70)	1,2,4-Trichlorobenzene	25.63	180	3894	0.45349	ppb		97
71)	Hexachlorobutadiene	25.89	223	2311	0.55182	ppb		78
72)	Naphthalene	25.98	128	3726	0.41696	ppb		94
73)	1,2,3-Trichlorobenzene	26.34	180	8120	0.46396	ppb		98

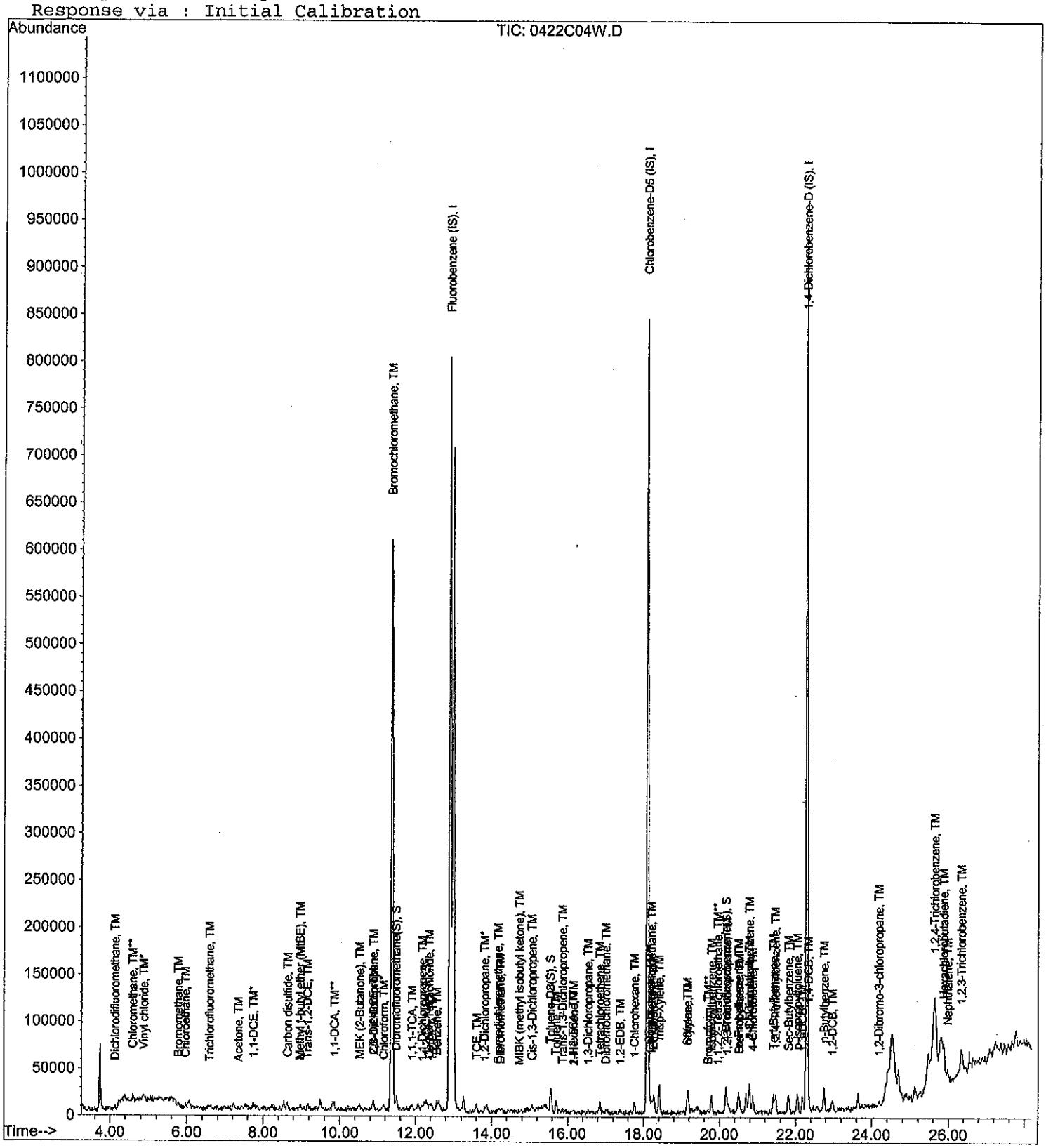
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C04W.D Vial: 1
Acq On : 22 Apr 11 18:01 Operator: RS
Sample : Vol Std 04-22-11@0.3ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C05W.D Vial: 1
Acq On : 22 Apr 11 18:36 Operator: RS
Sample : Vol Std 04-22-11@0.5ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	414272	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.09	117	323264	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	182336	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	15755	1.24102 ppb		0.00
Spiked Amount 23.521			Recovery =	5.276%		
23) 1,2-DCA-D4(S)	12.29	65	10093	1.15348 ppb		0.00
Spiked Amount 22.321			Recovery =	5.166%		
36) Toluene-D8(S)	15.57	98	53536	1.22635 ppb		0.00
Spiked Amount 26.002			Recovery =	4.715%		
44) 4-Bromofluorobenzene(S)	20.16	95	25843	1.55406 ppb		0.00
Spiked Amount 26.339			Recovery =	5.900%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	6223	0.34716 ppb		83
3) Chloromethane	4.61	50	6530	0.38790 ppb		93
4) Vinyl chloride	4.88	62	2137	0.48918 ppb	#	82
5) Bromomethane	5.79	94	1629	0.48554 ppb	#	36
6) Chloroethane	5.97	64	4070	0.42546 ppb	#	59
7) Trichlorofluoromethane	6.58	101	7551	0.36802 ppb	#	74
8) Acetone	7.34	43	1357	0.77850 ppb	#	33
9) 1,1-DCE	7.73	96	4255	0.49144 ppb	#	62
10) Methylene chloride	8.54	84	6867	-0.22750 ppb		80
11) Carbon disulfide	8.62	76	13695	0.34328 ppb		99
12) Methyl t-butyl ether (MtBE	8.95	73	6489	0.43762 ppb	#	87
13) Trans-1,2-DCE	9.17	96	6713	0.68653 ppb		84
14) 1,1-DCA	9.85	63	9557	0.55801 ppb	#	87
15) MEK (2-Butanone)	10.51	43	2263	0.59982 ppb	#	80
16) Cis-1,2-DCE	10.88	96	6715	0.54738 ppb	#	80
17) 2,2-Dichloropropane	10.88	77	8532	0.49512 ppb		95
18) Chloroform	11.15	83	8793	0.45090 ppb		92
19) Bromochloromethane	11.38	128	2069	0.49793 ppb	#	45
21) 1,1,1-TCA	11.90	97	9767	0.51301 ppb		98
22) 1,1-Dichloropropene	12.16	75	5647	0.45939 ppb	#	83
24) Carbon Tetrachloride	12.36	117	7929	0.45065 ppb	#	83
25) 1,2-DCA	12.44	62	3657	0.42439 ppb	#	73
26) Benzene	12.56	78	18551	0.52794 ppb		94
27) TCE	13.60	95	5709	0.49392 ppb		83
28) 1,2-Dichloropropane	13.83	63	4999	0.61517 ppb	#	81
29) Bromodichloromethane	14.17	83	6747	0.51111 ppb	#	77
30) Dibromomethane	14.23	93	2142	0.48216 ppb	#	59
31) Cis-1,3-Dichloropropene	15.08	75	6508	0.52587 ppb	#	78
32) Toluene	15.70	92	12760	0.50407 ppb		76
33) Trans-1,3-Dichloropropene	15.86	75	4873	0.51350 ppb		85
34) 1,1,2-TCA	16.13	83	1769	0.41205 ppb		78
37) 1,2-EDB	17.40	107	3054	0.52207 ppb	#	69
38) Tetrachloroethene	16.85	164	5862	0.50924 ppb		89
39) 1-Chlorohexane	17.77	91	10048	0.55474 ppb		91
40) 1,1,1,2-Tetrachloroethane	18.22	131	5484	0.44838 ppb		88
41) m&p-Xylene	18.41	106	23876	1.03027 ppb		98
42) o-Xylene	19.15	106	10979	0.48211 ppb		69
43) Styrene	19.17	78	9899	0.55823 ppb		77
45) 2-Hexanone	16.15	43	887	0.47138 ppb		88

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C05W.D Vial: 1
Acq On : 22 Apr 11 18:36 Operator: RS
Sample : Vol Std 04-22-11@0.5ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.56	76	4691	0.49910	ppb		89
47)	Dibromochloromethane	17.03	129	4165	0.44778	ppb		97
48)	Chlorobenzene	18.15	112	17399	0.52325	ppb		97
49)	Ethylbenzene	18.27	91	29160	0.50971	ppb		100
50)	Bromoform	19.69	173	2482	0.44631	ppb		95
52)	MIBK (methyl isobutyl keto	14.74	43	1563	0.53360	ppb		84
53)	Isopropylbenzene	19.79	105	32175	0.53545	ppb		93
54)	1,1,2,2-Tetrachloroethane	19.93	83	2488	0.51098	ppb	#	83
55)	1,2,3-Trichloropropane	20.20	110	668	0.39560	ppb		88
56)	Bromobenzene	20.53	156	9026	0.63745	ppb		85
57)	n-Propylbenzene	20.50	91	37112	0.54473	ppb		89
58)	2-Chlorotoluene	20.79	91	24512	0.54267	ppb		94
59)	1,3,5-Trimethylbenzene	20.77	105	23506	0.49284	ppb		84
60)	4-Chlorotoluene	20.88	91	23107	0.59188	ppb		91
61)	Tert-Butylbenzene	21.41	119	27029	0.51427	ppb		95
62)	1,2,4-Trimethylbenzene	21.47	105	25401	0.52467	ppb		92
63)	Sec-Butylbenzene	21.81	105	36750	0.54535	ppb		93
64)	p-Isopropyltoluene	22.04	119	31010	0.54825	ppb		94
65)	1,3-DCB	22.18	146	17976	0.61312	ppb		88
66)	1,4-DCB	22.35	146	14331	0.52133	ppb		99
67)	n-Butylbenzene	22.75	91	28677	0.61049	ppb		93
68)	1,2-DCB	22.98	146	13071	0.55546	ppb	#	84
69)	1,2-Dibromo-3-chloropropan	24.18	157	219	0.17076	ppb	#	76
70)	1,2,4-Trichlorobenzene	25.62	180	5307	0.62716	ppb		79
71)	Hexachlorobutadiene	25.88	223	2673	0.64767	ppb		91
72)	Naphthalene	25.98	128	5032	0.57140	ppb	#	87
73)	1,2,3-Trichlorobenzene	26.34	180	10502	0.60891	ppb	#	80

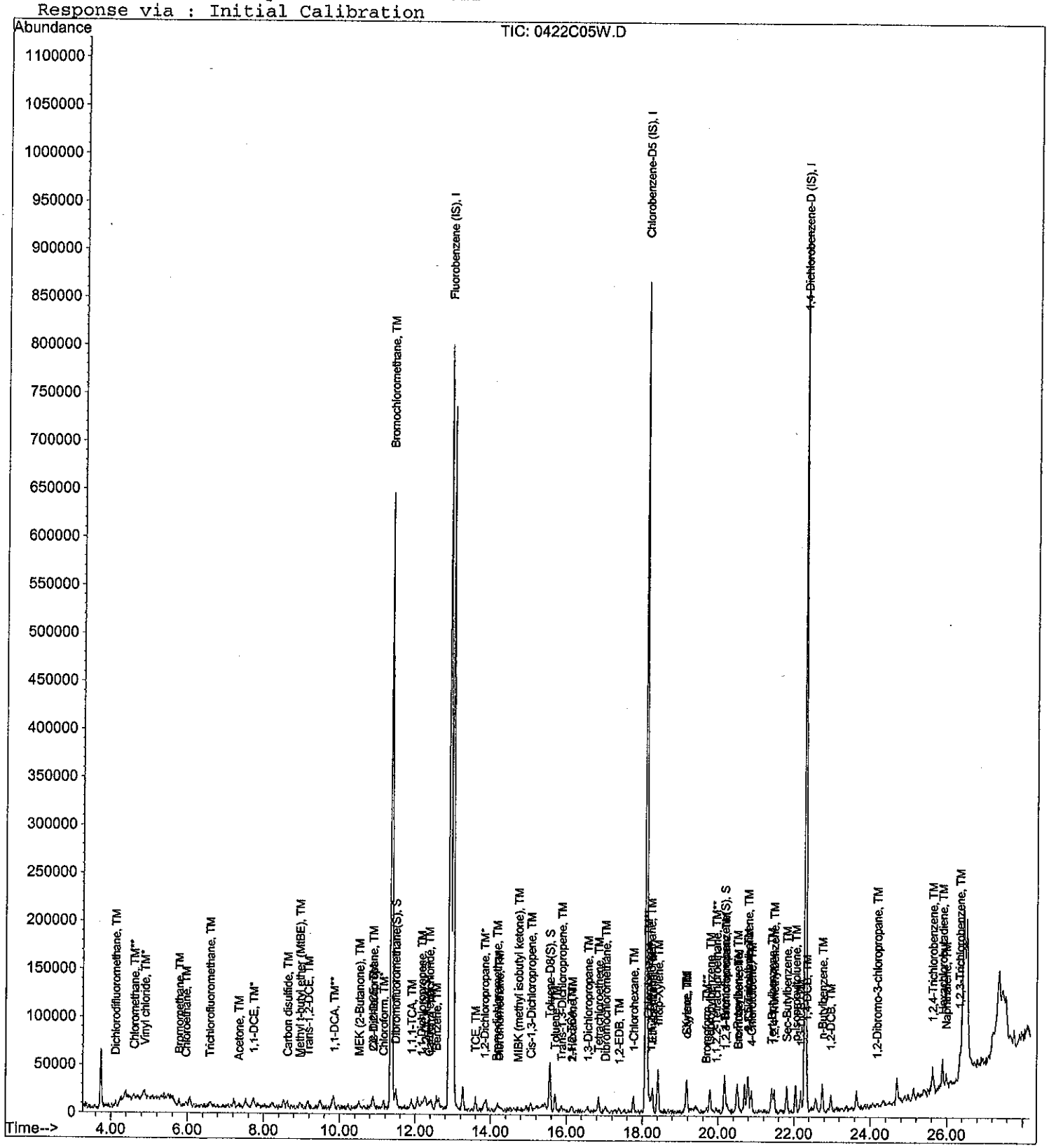
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C05W.D Vial: 1
Acq On : 22 Apr 11 18:36 Operator: RS
Sample : Vol Std 04-22-11@0.5ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C06W.D Vial: 1
Acq On : 22 Apr 11 19:11 Operator: RS
Sample : Vol Std 04-22-11@1.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	415040	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	331392	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	182400	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	31068	2.44269 ppb		0.00
Spiked Amount 23.521			Recovery =	10.387%		
23) 1,2-DCA-D4(S)	12.30	65	19636	2.23995 ppb		0.00
Spiked Amount 22.321			Recovery =	10.036%		
36) Toluene-D8(S)	15.56	98	106288	2.37503 ppb		0.00
Spiked Amount 26.002			Recovery =	9.134%		
44) 4-Bromofluorobenzene(S)	20.17	95	45602	2.67501 ppb		0.00
Spiked Amount 26.339			Recovery =	10.156%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	14666	0.81666 ppb		99
3) Chloromethane	4.60	50	12759	0.75652 ppb		99
4) Vinyl chloride	4.88	62	4124	0.94228 ppb		90
5) Bromomethane	5.79	94	2468	0.73425 ppb		74
6) Chloroethane	5.98	64	8125	0.84779 ppb		88
7) Trichlorofluoromethane	6.59	101	18320	0.89122 ppb		84
8) Acetone	7.36	43	1773	1.27900 ppb		99
9) 1,1-DCE	7.74	96	9479	1.09277 ppb		96
10) Methylene chloride	8.54	84	11057	0.33380 ppb		87
11) Carbon disulfide	8.63	76	29622	0.74114 ppb		93
12) Methyl t-butyl ether (MtBE	8.98	73	14465	0.97371 ppb	#	78
13) Trans-1,2-DCE	9.17	96	9692	0.98936 ppb		96
14) 1,1-DCA	9.85	63	17224	1.00381 ppb		95
15) MEK (2-Butanone)	10.50	43	3646	0.96460 ppb	#	80
16) Cis-1,2-DCE	10.88	96	12950	1.05367 ppb		94
17) 2,2-Dichloropropane	10.87	77	16995	0.98440 ppb		98
18) Chloroform	11.16	83	19127	0.97900 ppb		92
19) Bromochloromethane	11.39	128	3984	0.95702 ppb		82
21) 1,1,1-TCA	11.91	97	17894	0.93814 ppb		93
22) 1,1-Dichloropropene	12.18	75	12272	0.99649 ppb		92
24) Carbon Tetrachloride	12.36	117	16334	0.92664 ppb	#	81
25) 1,2-DCA	12.43	62	6815	0.78941 ppb	#	61
26) Benzene	12.57	78	36903	1.04827 ppb		93
27) TCE	13.60	95	12216	1.05492 ppb		92
28) 1,2-Dichloropropane	13.83	63	9062	1.11310 ppb	#	85
29) Bromodichloromethane	14.18	83	11842	0.89541 ppb		97
30) Dibromomethane	14.22	93	4382	0.98456 ppb	#	63
31) Cis-1,3-Dichloropropene	15.07	75	12232	0.98656 ppb		92
32) Toluene	15.70	92	28060	1.10642 ppb		87
33) Trans-1,3-Dichloropropene	15.86	75	9433	0.99217 ppb	#	77
34) 1,1,2-TCA	16.15	83	4291	0.99765 ppb		93
37) 1,2-EDB	17.39	107	5010	0.83544 ppb	#	99
38) Tetrachloroethene	16.85	164	11931	1.01103 ppb		88
39) 1-Chlorohexane	17.77	91	19691	1.06045 ppb		82
40) 1,1,1,2-Tetrachloroethane	18.21	131	12306	0.98147 ppb		92
41) m&p-Xylene	18.42	106	46454	1.95537 ppb		97
42) o-Xylene	19.16	106	23403	1.00246 ppb		99
43) Styrene	19.17	78	17658	0.97135 ppb		82
45) 2-Hexanone	16.17	43	1619	0.83928 ppb	#	78

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C06W.D
Acq On : 22 Apr 11 19:11
Sample : Vol Std 04-22-11@1.0ug/L
Misc : Water 10ml w/IS: 04-12-11

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

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.56	76	9149	0.94954	ppb		94
47)	Dibromochloromethane	17.04	129	9540	1.00049	ppb		98
48)	Chlorobenzene	18.17	112	32870	0.96427	ppb	#	87
49)	Ethylbenzene	18.27	91	57671	0.98336	ppb		99
50)	Bromoform	19.70	173	5341	0.93686	ppb		83
52)	MIBK (methyl isobutyl keto	14.73	43	3758	1.28250	ppb	#	45
53)	Isopropylbenzene	19.79	105	62563	1.04080	ppb		100
54)	1,1,2,2-Tetrachloroethane	19.96	83	5371	1.10270	ppb	#	79
55)	1,2,3-Trichloropropane	20.21	110	1254	0.74239	ppb		82
56)	Bromobenzene	20.54	156	16617	1.17314	ppb		82
57)	n-Propylbenzene	20.50	91	70748	1.03808	ppb		95
58)	2-Chlorotoluene	20.79	91	48869	1.08152	ppb		93
59)	1,3,5-Trimethylbenzene	20.77	105	53288	1.11688	ppb		83
60)	4-Chlorotoluene	20.87	91	44798	1.14709	ppb		82
61)	Tert-Butylbenzene	21.42	119	56926	1.08273	ppb		93
62)	1,2,4-Trimethylbenzene	21.48	105	52225	1.07836	ppb		81
63)	Sec-Butylbenzene	21.81	105	72272	1.07210	ppb		90
64)	p-Isopropyltoluene	22.05	119	59173	1.04580	ppb		96
65)	1,3-DCB	22.18	146	31895	1.08749	ppb		97
66)	1,4-DCB	22.35	146	28615	1.04059	ppb		95
67)	n-Butylbenzene	22.75	91	50307	1.07058	ppb		98
68)	1,2-DCB	22.97	146	25669	1.09044	ppb		90
69)	1,2-Dibromo-3-chloropropan	24.20	157	1688	1.31575	ppb	#	35
70)	1,2,4-Trichlorobenzene	25.64	180	9037	1.06758	ppb		92
71)	Hexachlorobutadiene	25.89	223	4553	1.10280	ppb		84
72)	Naphthalene	25.98	128	9485	1.07668	ppb		98
73)	1,2,3-Trichlorobenzene	26.34	180	17725	1.02733	ppb		86

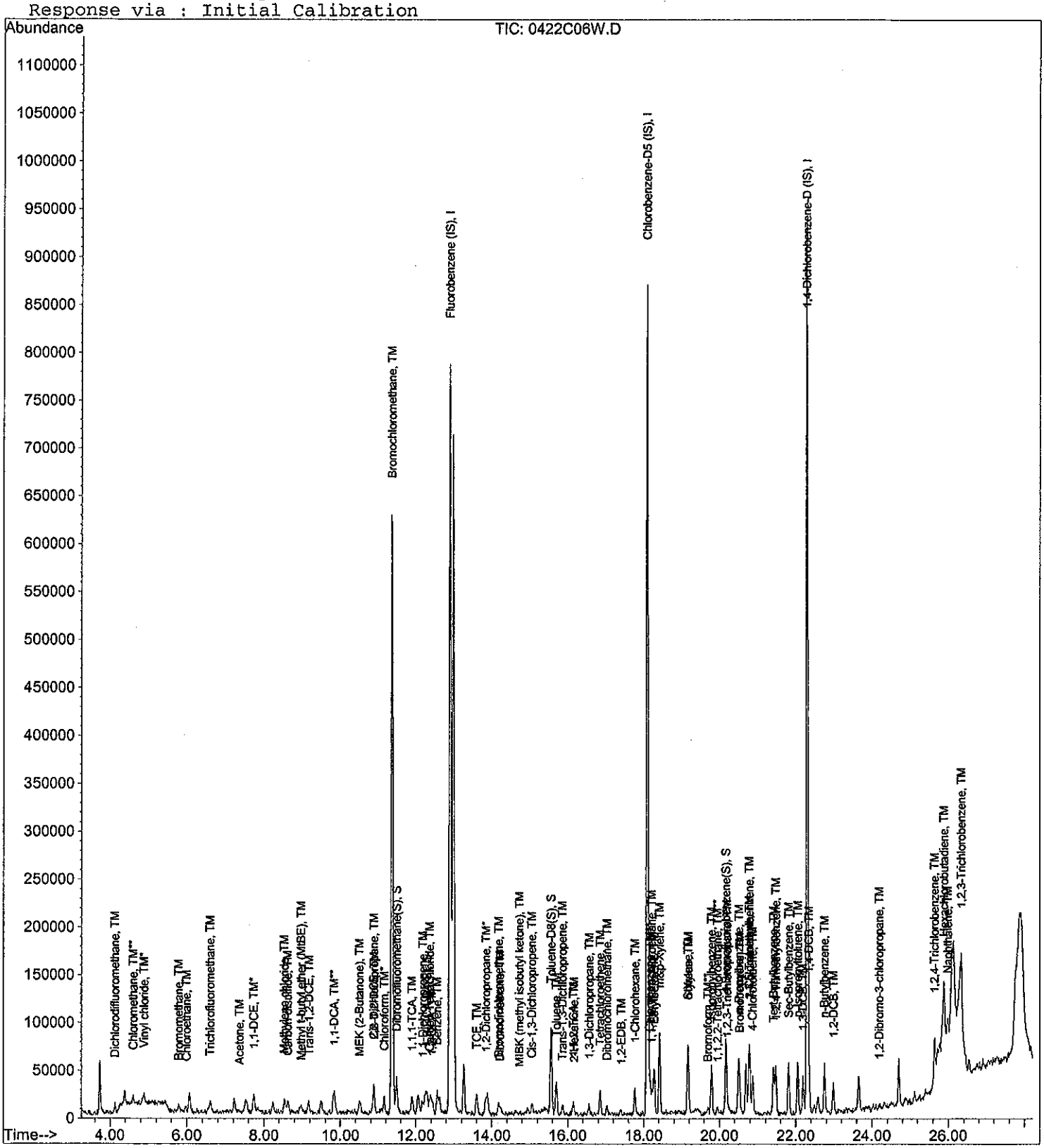
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C06W.D Vial: 1
Acq On : 22 Apr 11 19:11 Operator: RS
Sample : Vol Std 04-22-11@1.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C07W.D Vial: 1
Acq On : 22 Apr 11 19:46 Operator: RS
Sample : Vol Std 04-22-11@2.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.91	96	439296	25.00000	ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	327872	25.00000	ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	176768	25.00000	ppb		0.00
System Monitoring Compounds							
20) Dibromofluoromethane(S)	11.48	111	61741	4.58630	ppb		0.00
Spiked Amount 23.521			Recovery = 19.498%				
23) 1,2-DCA-D4(S)	12.30	65	41442	4.46641	ppb		0.00
Spiked Amount 22.321			Recovery = 20.008%				
36) Toluene-D8(S)	15.57	98	221122	4.99407	ppb		0.00
Spiked Amount 26.002			Recovery = 19.206%				
44) 4-Bromofluorobenzene(S)	20.16	95	79526	4.71507	ppb		0.00
Spiked Amount 26.339			Recovery = 17.902%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.13	85	29423	1.54792	ppb		100
3) Chloromethane	4.61	50	25068	1.40430	ppb		90
4) Vinyl chloride	4.88	62	6473	1.39733	ppb	#	80
5) Bromomethane	5.79	94	4654	1.30815	ppb		97
6) Chloroethane	5.97	64	19410	1.91347	ppb		94
7) Trichlorofluoromethane	6.60	101	35682	1.63999	ppb		100
8) Acetone	7.33	43	2632	2.14284	ppb	#	62
9) 1,1-DCE	7.74	96	15999	1.74258	ppb	#	83
10) Methylene chloride	8.54	84	19166	1.28121	ppb		90
11) Carbon disulfide	8.63	76	58395	1.38037	ppb		98
12) Methyl t-butyl ether (MtBE	8.98	73	26905	1.71111	ppb		91
13) Trans-1,2-DCE	9.16	96	18912	1.82395	ppb		83
14) 1,1-DCA	9.86	63	33893	1.86622	ppb	#	90
15) MEK (2-Butanone)	10.50	43	6648	1.66170	ppb		98
16) Cis-1,2-DCE	10.88	96	24096	1.85231	ppb		87
17) 2,2-Dichloropropane	10.87	77	35248	1.92894	ppb		97
18) Chloroform	11.15	83	35875	1.73485	ppb		97
19) Bromochloromethane	11.38	128	7851	1.78181	ppb	#	70
21) 1,1,1-TCA	11.90	97	33686	1.66856	ppb		89
22) 1,1-Dichloropropene	12.18	75	25094	1.92513	ppb		94
24) Carbon Tetrachloride	12.36	117	31110	1.66744	ppb		93
25) 1,2-DCA	12.44	62	16982	1.85849	ppb		97
26) Benzene	12.57	78	73937	1.98430	ppb		97
27) TCE	13.60	95	24725	2.01724	ppb		94
28) 1,2-Dichloropropane	13.82	63	16909	1.96227	ppb	#	92
29) Bromodichloromethane	14.18	83	24953	1.78259	ppb	#	93
30) Dibromomethane	14.23	93	7092	1.50546	ppb		90
31) Cis-1,3-Dichloropropene	15.07	75	24508	1.86752	ppb		95
32) Toluene	15.69	92	54132	2.01660	ppb		100
33) Trans-1,3-Dichloropropene	15.87	75	17906	1.77938	ppb		96
34) 1,1,2-TCA	16.14	83	8599	1.88887	ppb		93
37) 1,2-EDB	17.39	107	11364	1.91534	ppb		89
38) Tetrachloroethene	16.85	164	23385	2.00292	ppb		95
39) 1-Chlorohexane	17.76	91	33354	1.81555	ppb		88
40) 1,1,1,2-Tetrachloroethane	18.22	131	24081	1.94121	ppb	#	73
41) m&p-Xylene	18.42	106	92211	3.92307	ppb		95
42) o-Xylene	19.16	106	41932	1.81543	ppb		89
43) Styrene	19.17	78	29431	1.63635	ppb		70
45) 2-Hexanone	16.16	43	3326	1.74270	ppb		95

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C07W.D Vial: 1
Acq On : 22 Apr 11 19:46 Operator: RS
Sample : Vol Std 04-22-11@2.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46) 1,3-Dichloropropane	16.55	76	17615	1.84782	ppb		92
47) Dibromochloromethane	17.04	129	17035	1.80570	ppb		97
48) Chlorobenzene	18.16	112	65151	1.93178	ppb		94
49) Ethylbenzene	18.27	91	111073	1.91425	ppb		99
50) Bromoform	19.70	173	9788	1.73533	ppb	#	75
52) MIBK (methyl isobutyl keto	14.73	43	6861	2.41608	ppb	#	71
53) Isopropylbenzene	19.79	105	123369	2.11776	ppb		94
54) 1,1,2,2-Tetrachloroethane	19.96	83	9272	1.96425	ppb		85
55) 1,2,3-Trichloropropane	20.21	110	3331	2.03483	ppb		80
56) Bromobenzene	20.54	156	28462	2.07340	ppb		82
57) n-Propylbenzene	20.50	91	138098	2.09086	ppb		100
58) 2-Chlorotoluene	20.80	91	93059	2.12511	ppb		99
59) 1,3,5-Trimethylbenzene	20.77	105	95502	2.06544	ppb		87
60) 4-Chlorotoluene	20.88	91	75311	1.98983	ppb		94
61) Tert-Butylbenzene	21.42	119	101191	1.98597	ppb		99
62) 1,2,4-Trimethylbenzene	21.48	105	94410	2.01152	ppb		91
63) Sec-Butylbenzene	21.82	105	133428	2.04236	ppb		100
64) p-Isopropyltoluene	22.05	119	107845	1.96675	ppb		96
65) 1,3-DCB	22.18	146	56689	1.99444	ppb		95
66) 1,4-DCB	22.35	146	52401	1.96629	ppb		92
67) n-Butylbenzene	22.75	91	91173	2.00206	ppb		98
68) 1,2-DCB	22.98	146	46169	2.02378	ppb		95
69) 1,2-Dibromo-3-chloropropan	24.19	157	2255	1.81372	ppb		85
70) 1,2,4-Trichlorobenzene	25.64	180	15280	1.86260	ppb		98
71) Hexachlorobutadiene	25.88	223	8540	2.13441	ppb		79
72) Naphthalene	25.98	128	17144	2.00809	ppb		97
73) 1,2,3-Trichlorobenzene	26.34	180	31645	1.89257	ppb	#	90

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

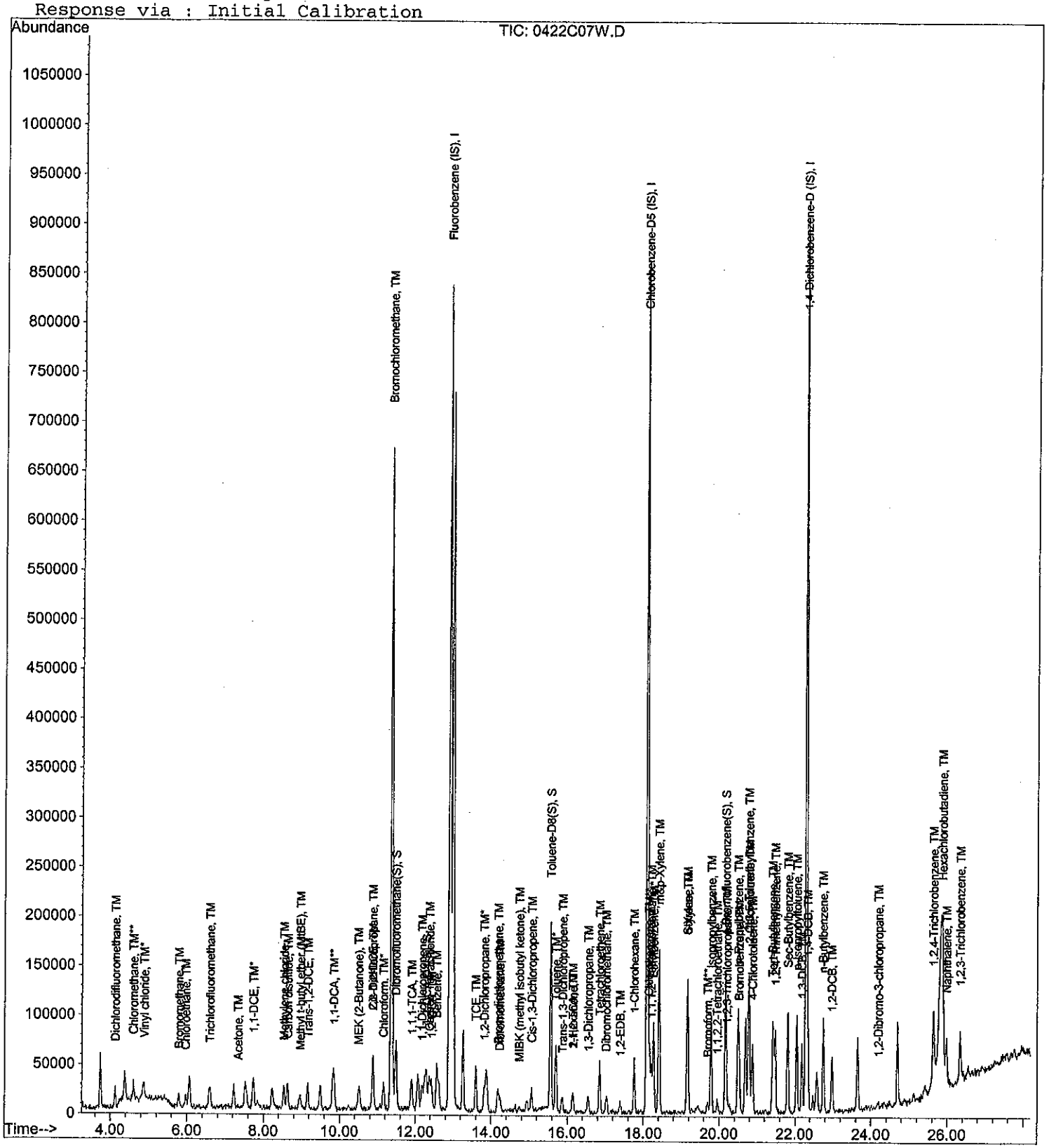
Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C07W.D
Acq On : 22 Apr 11 19:46
Sample : Vol Std 04-22-11@2.0ug/L
Misc : Water 10ml w/IS: 04-12-11

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

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C08W.D Vial: 1
Acq On : 22 Apr 11 20:21 Operator: RS
Sample : Vol Std 04-22-11@5.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	422656	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	332096	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	183424	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	132312	10.21546 ppb		0.00
Spiked Amount 23.521			Recovery = 43.430%			
23) 1,2-DCA-D4(S)	12.29	65	85085	9.53107 ppb		0.00
Spiked Amount 22.321			Recovery = 42.700%			
36) Toluene-D8(S)	15.56	98	446387	9.95348 ppb		0.00
Spiked Amount 26.002			Recovery = 38.278%			
44) 4-Bromofluorobenzene(S)	20.17	95	163353	9.56195 ppb		0.00
Spiked Amount 26.339			Recovery = 36.304%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	59861	3.27322 ppb		89
3) Chloromethane	4.61	50	65776	3.82980 ppb		96
4) Vinyl chloride	4.88	62	19800	4.44251 ppb		98
5) Bromomethane	5.79	94	15873	4.63726 ppb		100
6) Chloroethane	5.98	64	48086	4.92703 ppb		93
7) Trichlorofluoromethane	6.59	101	88773	4.24075 ppb		97
8) Acetone	7.34	43	5424	5.57996 ppb	#	58
9) 1,1-DCE	7.75	96	41309	4.67642 ppb		86
10) Methylene chloride	8.54	84	47772	5.15153 ppb		92
11) Carbon disulfide	8.63	76	189899	4.66566 ppb		98
12) Methyl t-butyl ether (MtBE	8.97	73	76214	5.03790 ppb		97
13) Trans-1,2-DCE	9.16	96	49152	4.92704 ppb		89
14) 1,1-DCA	9.86	63	93340	5.34183 ppb		97
15) MEK (2-Butanone)	10.50	43	17871	4.64280 ppb	#	74
16) Cis-1,2-DCE	10.88	96	65441	5.22865 ppb		94
17) 2,2-Dichloropropane	10.88	77	81657	4.64460 ppb		98
18) Chloroform	11.16	83	102813	5.16759 ppb		96
19) Bromochloromethane	11.38	128	21325	5.03031 ppb		90
21) 1,1,1-TCA	11.91	97	93313	4.80402 ppb		98
22) 1,1-Dichloropropene	12.17	75	58393	4.65609 ppb		91
24) Carbon Tetrachloride	12.37	117	80406	4.47928 ppb		93
25) 1,2-DCA	12.44	62	44277	5.03640 ppb		93
26) Benzene	12.57	78	190172	5.30472 ppb		92
27) TCE	13.60	95	58855	4.99085 ppb		95
28) 1,2-Dichloropropane	13.82	63	46727	5.63610 ppb		100
29) Bromodichloromethane	14.18	83	68376	5.07695 ppb		99
30) Dibromomethane	14.24	93	22958	5.06530 ppb		87
31) Cis-1,3-Dichloropropene	15.06	75	67536	5.34889 ppb		87
32) Toluene	15.70	92	141099	5.46336 ppb		99
33) Trans-1,3-Dichloropropene	15.86	75	48272	4.98581 ppb		98
34) 1,1,2-TCA	16.14	83	23087	5.27098 ppb		89
37) 1,2-EDB	17.39	107	31116	5.17772 ppb	#	96
38) Tetrachloroethene	16.85	164	57669	4.87651 ppb		97
39) 1-Chlorohexane	17.76	91	89077	4.78704 ppb		98
40) 1,1,1,2-Tetrachloroethane	18.21	131	62302	4.95840 ppb		98
41) m&p-Xylene	18.42	106	241258	10.13363 ppb		98
42) o-Xylene	19.16	106	122546	5.23811 ppb		87
43) Styrene	19.18	78	88366	4.85062 ppb		92
45) 2-Hexanone	16.16	43	9042	4.67740 ppb	#	78

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C08W.D Vial: 1
Acq On : 22 Apr 11 20:21 Operator: RS
Sample : Vol Std 04-22-11@5.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.55	76	51673	5.35158	ppb		93
47)	Dibromochloromethane	17.03	129	50117	5.24480	ppb		94
48)	Chlorobenzene	18.17	112	177272	5.18941	ppb		96
49)	Ethylbenzene	18.27	91	289177	4.92034	ppb		99
50)	Bromoform	19.69	173	27946	4.89157	ppb		91
52)	MIBK (methyl isobutyl keto	14.74	43	15243	5.17298	ppb	#	76
53)	Isopropylbenzene	19.79	105	327288	5.41438	ppb		98
54)	1,1,2,2-Tetrachloroethane	19.95	83	28150	5.74711	ppb		90
55)	1,2,3-Trichloropropane	20.22	110	9802	5.77053	ppb	#	77
56)	Bromobenzene	20.54	156	75361	5.29068	ppb		94
57)	n-Propylbenzene	20.50	91	362319	5.28661	ppb		99
58)	2-Chlorotoluene	20.79	91	248196	5.46217	ppb		97
59)	1,3,5-Trimethylbenzene	20.77	105	262744	5.47621	ppb		93
60)	4-Chlorotoluene	20.87	91	204323	5.20263	ppb		96
61)	Tert-Butylbenzene	21.41	119	275503	5.21081	ppb		97
62)	1,2,4-Trimethylbenzene	21.47	105	266603	5.47419	ppb		98
63)	Sec-Butylbenzene	21.81	105	352811	5.20444	ppb		95
64)	p-Isopropyltoluene	22.05	119	292666	5.14361	ppb		99
65)	1,3-DCB	22.18	146	160350	5.43675	ppb		98
66)	1,4-DCB	22.35	146	146507	5.29801	ppb		98
67)	n-Butylbenzene	22.75	91	240189	5.08290	ppb		97
68)	1,2-DCB	22.98	146	128232	5.41698	ppb		97
69)	1,2-Dibromo-3-chloropropan	24.19	157	7857	6.09014	ppb		89
70)	1,2,4-Trichlorobenzene	25.63	180	44344	5.20929	ppb		98
71)	Hexachlorobutadiene	25.89	223	21546	5.18961	ppb		94
72)	Naphthalene	25.98	128	46592	5.25932	ppb		98
73)	1,2,3-Trichlorobenzene	26.34	180	84581	4.87492	ppb		97

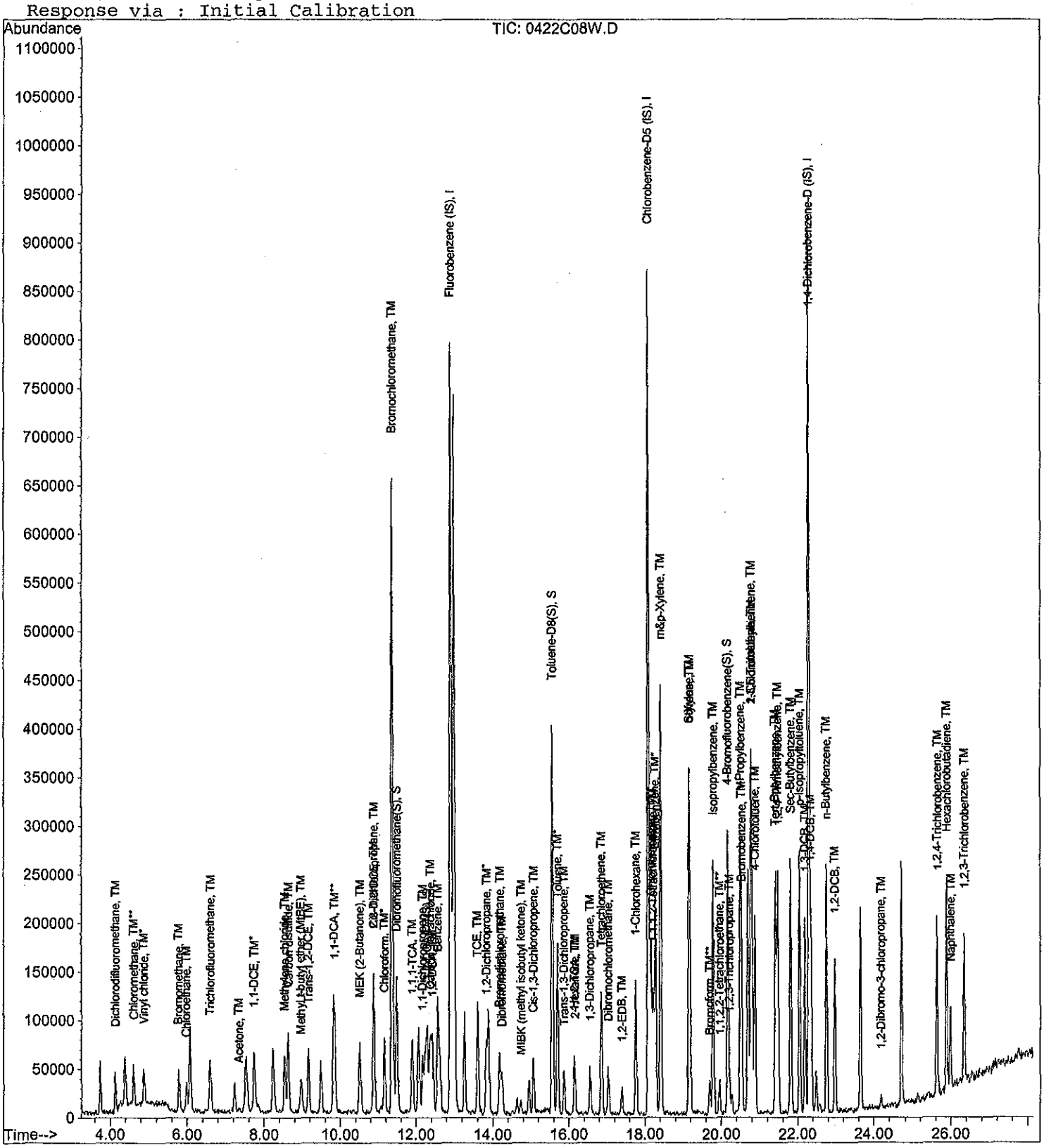
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C08W.D Vial: 1
Acq On : 22 Apr 11 20:21 Operator: RS
Sample : Vol Std 04-22-11@5.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C09W.D Vial: 1
Acq On : 22 Apr 11 20:57 Operator: RS
Sample : Vol Std 04-22-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	96	440128	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.10	117	324224	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	180544	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.49	111	316177	23.44213 ppb	0.00
Spiked Amount 23.521			Recovery =	99.666%	
23) 1,2-DCA-D4(S)	12.29	65	199890	21.50244 ppb	0.00
Spiked Amount 22.321			Recovery =	96.333%	
36) Toluene-D8(S)	15.56	98	1058353	24.17199 ppb	0.00
Spiked Amount 26.002			Recovery =	92.963%	
44) 4-Bromofluorobenzene(S)	20.17	95	385441	23.10978 ppb	0.00
Spiked Amount 26.339			Recovery =	87.742%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.13	85	137096	7.19886 ppb	100
3) Chloromethane	4.60	50	136352	7.62392 ppb	100
4) Vinyl chloride	4.88	62	39016	8.40648 ppb	100
5) Bromomethane	5.78	94	35848	10.05716 ppb	100
6) Chloroethane	5.98	64	89035	8.76064 ppb	100
7) Trichlorofluoromethane	6.59	101	189991	8.71572 ppb	100
8) Acetone	7.35	43	9352	9.80758 ppb	100
9) 1,1-DCE	7.74	96	84138	9.14680 ppb	100
10) Methylene chloride	8.54	84	88479	10.05933 ppb	100
11) Carbon disulfide	8.63	76	386950	9.12964 ppb	100
12) Methyl t-butyl ether (MtBE	8.97	73	148717	9.44025 ppb	100
13) Trans-1,2-DCE	9.17	96	93379	8.98880 ppb	100
14) 1,1-DCA	9.86	63	174950	9.61489 ppb	100
15) MEK (2-Butanone)	10.51	43	34240	8.54227 ppb	100
16) Cis-1,2-DCE	10.88	96	126225	9.68486 ppb	100
17) 2,2-Dichloropropane	10.87	77	160628	8.77373 ppb	100
18) Chloroform	11.16	83	196177	9.46883 ppb	100
19) Bromochloromethane	11.39	128	43163	9.77745 ppb	100
21) 1,1,1-TCA	11.90	97	189250	9.35636 ppb	100
22) 1,1-Dichloropropene	12.17	75	121510	9.30423 ppb	100
24) Carbon Tetrachloride	12.36	117	165298	8.84291 ppb	100
25) 1,2-DCA	12.44	62	81869	8.94272 ppb	100
26) Benzene	12.57	78	362825	9.71900 ppb	100
27) TCE	13.60	95	121800	9.91852 ppb	100
28) 1,2-Dichloropropane	13.82	63	87693	10.15744 ppb	100
29) Bromodichloromethane	14.18	83	125219	8.92849 ppb	100
30) Dibromomethane	14.24	93	45553	9.65152 ppb	100
31) Cis-1,3-Dichloropropene	15.06	75	127518	9.69857 ppb	100
32) Toluene	15.70	92	266852	9.92235 ppb	100
33) Trans-1,3-Dichloropropene	15.86	75	96358	9.55732 ppb	100
34) 1,1,2-TCA	16.14	83	44515	9.75975 ppb	100
37) 1,2-EDB	17.39	107	58643	9.99515 ppb	100
38) Tetrachloroethene	16.85	164	120082	10.40071 ppb	100
39) 1-Chlorohexane	17.76	91	174303	9.59456 ppb	100
40) 1,1,1,2-Tetrachloroethane	18.21	131	117023	9.53957 ppb	100
41) m&p-Xylene	18.42	106	456083	19.62212 ppb	100
42) o-Xylene	19.16	106	230212	10.07910 ppb	100
43) Styrene	19.17	78	168447	9.47095 ppb	100
45) 2-Hexanone	16.16	43	16371	8.67429 ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C09W.D Vial: 1
Acq On : 22 Apr 11 20:57 Operator: RS
Sample : Vol Std 04-22-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,3-Dichloropropane	16.55	76	90707	9.62227	ppb	100
47)	Dibromochloromethane	17.03	129	91462	9.80399	ppb	100
48)	Chlorobenzene	18.17	112	333942	10.01307	ppb	100
49)	Ethylbenzene	18.27	91	559149	9.74490	ppb	100
50)	Bromoform	19.70	173	54949	9.85160	ppb	100
52)	MIBK (methyl isobutyl keto	14.74	43	26720	9.21255	ppb	100
53)	Isopropylbenzene	19.79	105	635394	10.67910	ppb	100
54)	1,1,2,2-Tetrachloroethane	19.95	83	50451	10.46440	ppb	100
55)	1,2,3-Trichloropropane	20.21	110	16522	9.88181	ppb	100
56)	Bromobenzene	20.53	156	144967	10.33968	ppb	100
57)	n-Propylbenzene	20.50	91	704311	10.44055	ppb	100
58)	2-Chlorotoluene	20.79	91	470446	10.51849	ppb	100
59)	1,3,5-Trimethylbenzene	20.77	105	503431	10.66007	ppb	100
60)	4-Chlorotoluene	20.88	91	392246	10.14699	ppb	100
61)	Tert-Butylbenzene	21.42	119	556023	10.68426	ppb	100
62)	1,2,4-Trimethylbenzene	21.47	105	499895	10.42813	ppb	100
63)	Sec-Butylbenzene	21.81	105	690046	10.34149	ppb	100
64)	p-Isopropyltoluene	22.05	119	582236	10.39604	ppb	100
65)	1,3-DCB	22.18	146	301683	10.39189	ppb	100
66)	1,4-DCB	22.35	146	283360	10.41037	ppb	100
67)	n-Butylbenzene	22.75	91	474542	10.20249	ppb	100
68)	1,2-DCB	22.98	146	248289	10.65593	ppb	100
69)	1,2-Dibromo-3-chloropropan	24.18	157	11974	9.42937	ppb	100
70)	1,2,4-Trichlorobenzene	25.63	180	81840	9.76748	ppb	100
71)	Hexachlorobutadiene	25.88	223	38133	9.33131	ppb	100
72)	Naphthalene	25.98	128	86072	9.87083	ppb	100
73)	1,2,3-Trichlorobenzene	26.34	180	163670	9.58377	ppb	100

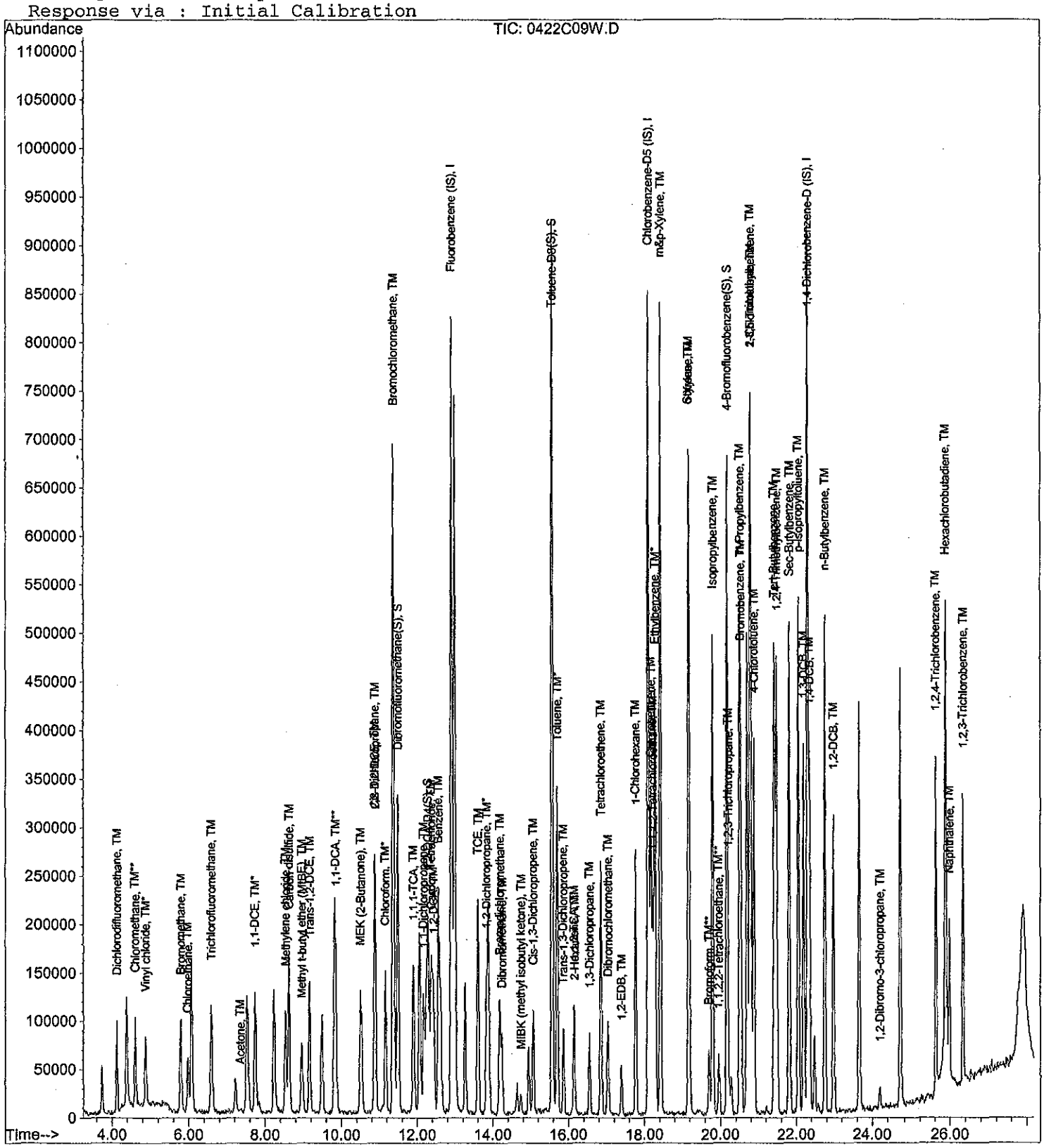
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C09W.D Vial: 1
Acq On : 22 Apr 11 20:57 Operator: RS
Sample : Vol Std 04-22-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C10W.D Vial: 1
Acq On : 22 Apr 11 21:32 Operator: RS
Sample : Vol Std 04-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	434432	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.09	117	345088	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	195904	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	524178	39.37339 ppb		0.00
Spiked Amount 23.521			Recovery = 167.399%			
23) 1,2-DCA-D4(S)	12.29	65	333941	36.39348 ppb		0.00
Spiked Amount 22.321			Recovery = 163.047%			
36) Toluene-D8(S)	15.56	98	1774004	38.06728 ppb		0.00
Spiked Amount 26.002			Recovery = 146.401%			
44) 4-Bromofluorobenzene(S)	20.17	95	660263	37.19377 ppb		0.00
Spiked Amount 26.339			Recovery = 141.215%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	327499	17.42232 ppb		94
3) Chloromethane	4.61	50	292687	16.57974 ppb		99
4) Vinyl chloride	4.87	62	74712	16.30869 ppb		98
5) Bromomethane	5.79	94	74880	21.28302 ppb		95
6) Chloroethane	5.97	64	182777	18.22022 ppb		88
7) Trichlorofluoromethane	6.59	101	405381	18.84043 ppb		98
8) Acetone	7.34	43	16340	18.02844 ppb		92
9) 1,1-DCE	7.74	96	175932	19.37668 ppb		93
10) Methylene chloride	8.54	84	178508	21.76355 ppb		92
11) Carbon disulfide	8.62	76	818813	19.57224 ppb		97
12) Methyl t-butyl ether (MtBE	8.96	73	309496	19.90377 ppb		94
13) Trans-1,2-DCE	9.17	96	202192	19.71849 ppb		93
14) 1,1-DCA	9.85	63	364479	20.29364 ppb		98
15) MEK (2-Butanone)	10.49	43	70473	17.81228 ppb		97
16) Cis-1,2-DCE	10.88	96	255270	19.84288 ppb		96
17) 2,2-Dichloropropane	10.88	77	327251	18.10929 ppb		98
18) Chloroform	11.16	83	400754	19.59672 ppb		99
19) Bromochloromethane	11.38	128	91559	21.01224 ppb		90
21) 1,1,1-TCA	11.90	97	389164	19.49219 ppb		97
22) 1,1-Dichloropropene	12.17	75	251514	19.51138 ppb		97
24) Carbon Tetrachloride	12.36	117	341973	18.53432 ppb		99
25) 1,2-DCA	12.45	62	170441	18.86173 ppb		97
26) Benzene	12.57	78	754000	20.46222 ppb		98
27) TCE	13.60	95	259421	21.40237 ppb		97
28) 1,2-Dichloropropane	13.82	63	185118	21.72326 ppb		98
29) Bromodichloromethane	14.18	83	260026	18.78372 ppb		100
30) Dibromomethane	14.24	93	95619	20.52486 ppb		96
31) Cis-1,3-Dichloropropene	15.07	75	263047	20.26874 ppb		93
32) Toluene	15.70	92	562293	21.18186 ppb		95
33) Trans-1,3-Dichloropropene	15.86	75	199689	20.06594 ppb		100
34) 1,1,2-TCA	16.14	83	92851	20.62415 ppb		94
37) 1,2-EDB	17.39	107	120284	19.26177 ppb	#	84
38) Tetrachloroethene	16.86	164	235383	19.15470 ppb		97
39) 1-Chlorohexane	17.76	91	377105	19.50284 ppb		96
40) 1,1,1,2-Tetrachloroethane	18.22	131	252321	19.32530 ppb		97
41) m&p-Xylene	18.41	106	950609	38.42547 ppb		95
42) o-Xylene	19.16	106	489580	20.13876 ppb		100
43) Styrene	19.18	78	349583	18.46698 ppb		96
45) 2-Hexanone	16.17	43	36225	18.03360 ppb		81

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C10W.D Vial: 1
Acq On : 22 Apr 11 21:32 Operator: RS
Sample : Vol Std 04-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,3-Dichloropropane	16.56	76	194632	19.39842	ppb	99
47)	Dibromochloromethane	17.03	129	191969	19.33342	ppb	93
48)	Chlorobenzene	18.16	112	690875	19.46305	ppb	96
49)	Ethylbenzene	18.28	91	1165360	19.08206	ppb	99
50)	Bromoform	19.69	173	118686	19.99225	ppb	96
52)	MIBK (methyl isobutyl keto	14.73	43	59394	18.87235	ppb	83
53)	Isopropylbenzene	19.79	105	1313695	20.34820	ppb	97
54)	1,1,2,2-Tetrachloroethane	19.95	83	108776	20.79300	ppb	89
55)	1,2,3-Trichloropropane	20.20	110	35336	19.47741	ppb	79
56)	Bromobenzene	20.53	156	295274	19.40899	ppb	98
57)	n-Propylbenzene	20.49	91	1468989	20.06861	ppb	98
58)	2-Chlorotoluene	20.79	91	941838	19.40705	ppb	93
59)	1,3,5-Trimethylbenzene	20.76	105	1006930	19.64985	ppb	94
60)	4-Chlorotoluene	20.87	91	831440	19.82210	ppb	97
61)	Tert-Butylbenzene	21.41	119	1154781	20.44989	ppb	96
62)	1,2,4-Trimethylbenzene	21.47	105	1042623	20.04448	ppb	99
63)	Sec-Butylbenzene	21.81	105	1476946	20.39903	ppb	99
64)	p-Isopropyltoluene	22.04	119	1223426	20.13197	ppb	98
65)	1,3-DCB	22.18	146	629700	19.99019	ppb	98
66)	1,4-DCB	22.35	146	591118	20.01436	ppb	94
67)	n-Butylbenzene	22.75	91	1009334	19.99890	ppb	97
68)	1,2-DCB	22.98	146	517544	20.47014	ppb	100
69)	1,2-Dibromo-3-chloropropan	24.19	157	27682	20.09003	ppb	86
70)	1,2,4-Trichlorobenzene	25.63	180	178880	19.67517	ppb	97
71)	Hexachlorobutadiene	25.88	223	84772	19.11761	ppb	97
72)	Naphthalene	25.98	128	188608	19.93386	ppb	99
73)	1,2,3-Trichlorobenzene	26.34	180	354806	19.14689	ppb	99

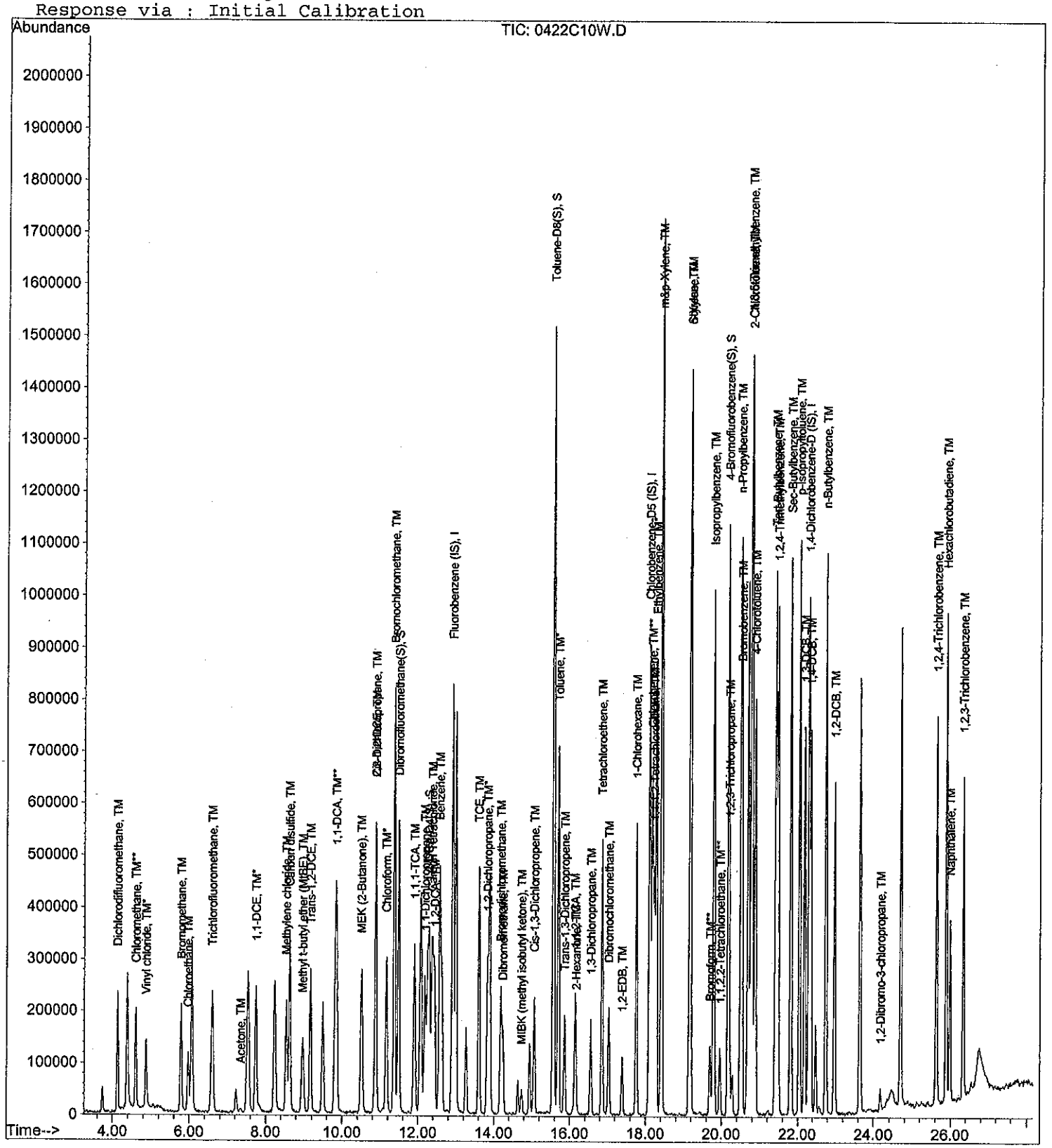
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C10W.D Vial: 1
Acq On : 22 Apr 11 21:32 Operator: RS
Sample : Vol Std 04-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C11W.D Vial: 1
Acq On : 22 Apr 11 22:07 Operator: RS
Sample : Vol Std 04-22-11@40ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	488128	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	362560	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	207744	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	1070242	71.54744 ppb		0.00
Spiked Amount 23.521			Recovery = 304.190%			
23) 1,2-DCA-D4(S)	12.29	65	662542	64.26216 ppb		0.00
Spiked Amount 22.321			Recovery = 287.904%			
36) Toluene-D8(S)	15.56	98	3598559	73.49805 ppb		0.00
Spiked Amount 26.002			Recovery = 282.665%			
44) 4-Bromofluorobenzene(S)	20.17	95	1303711	69.90118 ppb		0.00
Spiked Amount 26.339			Recovery = 265.395%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	730141	34.56933 ppb		94
3) Chloromethane	4.61	50	612908	30.89994 ppb		95
4) Vinyl chloride	4.86	62	154880	30.08930 ppb		100
5) Bromomethane	5.79	94	164992	41.73673 ppb		100
6) Chloroethane	5.97	64	383465	34.02091 ppb		95
7) Trichlorofluoromethane	6.58	101	852313	35.25451 ppb		100
8) Acetone	7.34	43	34525	34.66567 ppb	#	81
9) 1,1-DCE	7.75	96	367248	35.99830 ppb		86
10) Methylene chloride	8.54	84	357686	39.71400 ppb		99
11) Carbon disulfide	8.63	76	1705430	36.28088 ppb		98
12) Methyl t-butyl ether (MtBE	8.96	73	637351	36.47935 ppb		98
13) Trans-1,2-DCE	9.17	96	414465	35.97375 ppb		98
14) 1,1-DCA	9.85	63	740498	36.69437 ppb		98
15) MEK (2-Butanone)	10.49	43	136642	30.73753 ppb	#	88
16) Cis-1,2-DCE	10.88	96	526777	36.44349 ppb		100
17) 2,2-Dichloropropane	10.87	77	662210	32.61401 ppb		99
18) Chloroform	11.16	83	817536	35.57955 ppb		97
19) Bromochloromethane	11.38	128	187983	38.39529 ppb		97
21) 1,1,1-TCA	11.90	97	801138	35.71276 ppb		99
22) 1,1-Dichloropropene	12.18	75	530254	36.60984 ppb		97
24) Carbon Tetrachloride	12.36	117	714427	34.46124 ppb		97
25) 1,2-DCA	12.45	62	345162	33.99527 ppb		99
26) Benzene	12.56	78	1557204	37.61101 ppb		98
27) TCE	13.60	95	531869	39.05255 ppb		97
28) 1,2-Dichloropropane	13.83	63	379061	39.58891 ppb		97
29) Bromodichloromethane	14.18	83	555261	35.69851 ppb		97
30) Dibromomethane	14.24	93	192324	36.74156 ppb		96
31) Cis-1,3-Dichloropropene	15.07	75	555028	38.06242 ppb		97
32) Toluene	15.70	92	1156273	38.76590 ppb		98
33) Trans-1,3-Dichloropropene	15.86	75	417654	37.35168 ppb		98
34) 1,1,2-TCA	16.13	83	191927	37.94142 ppb		96
37) 1,2-EDB	17.39	107	253358	38.61650 ppb		86
38) Tetrachloroethene	16.85	164	494228	38.28050 ppb		98
39) 1-Chlorohexane	17.76	91	794601	39.11421 ppb		96
40) 1,1,1,2-Tetrachloroethane	18.21	131	509427	37.13683 ppb		98
41) m&p-Xylene	18.42	106	1936261	74.49569 ppb		98
42) o-Xylene	19.16	106	967819	37.89250 ppb		98
43) Styrene	19.17	78	679859	34.18334 ppb		98
45) 2-Hexanone	16.16	43	73377	34.76834 ppb	#	66

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C11W.D Vial: 1
Acq On : 22 Apr 11 22:07 Operator: RS
Sample : Vol Std 04-22-11@40ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.56	76	407916	38.69661	ppb		100
47)	Dibromochloromethane	17.03	129	391399	37.51865	ppb		90
48)	Chlorobenzene	18.16	112	1413699	37.90691	ppb		94
49)	Ethylbenzene	18.27	91	2362938	36.82710	ppb		99
50)	Bromoform	19.69	173	240999	38.63914	ppb		98
52)	MIBK (methyl isobutyl keto	14.73	43	116981	35.05206	ppb		83
53)	Isopropylbenzene	19.79	105	2667764	38.96670	ppb		98
54)	1,1,2,2-Tetrachloroethane	19.95	83	224462	40.46148	ppb		95
55)	1,2,3-Trichloropropane	20.20	110	74769	38.86424	ppb	#	74
56)	Bromobenzene	20.53	156	607159	37.63527	ppb		96
57)	n-Propylbenzene	20.50	91	3013762	38.82598	ppb		98
58)	2-Chlorotoluene	20.79	91	1918239	37.27356	ppb		92
59)	1,3,5-Trimethylbenzene	20.77	105	2109697	38.82352	ppb		94
60)	4-Chlorotoluene	20.87	91	1647055	37.02896	ppb		97
61)	Tert-Butylbenzene	21.41	119	2328431	38.88388	ppb		99
62)	1,2,4-Trimethylbenzene	21.47	105	2085832	37.81478	ppb		99
63)	Sec-Butylbenzene	21.81	105	2994709	39.00446	ppb		98
64)	p-Isopropyltoluene	22.04	119	2487303	38.59687	ppb		98
65)	1,3-DCB	22.18	146	1281896	38.37522	ppb		98
66)	1,4-DCB	22.35	146	1203078	38.41281	ppb		94
67)	n-Butylbenzene	22.75	91	2031977	37.96688	ppb		98
68)	1,2-DCB	22.97	146	1034046	38.56809	ppb		99
69)	1,2-Dibromo-3-chloropropan	24.19	157	56619	38.74896	ppb		83
70)	1,2,4-Trichlorobenzene	25.63	180	355520	36.87529	ppb		99
71)	Hexachlorobutadiene	25.88	223	163840	34.84303	ppb		91
72)	Naphthalene	25.98	128	382912	38.16323	ppb		99
73)	1,2,3-Trichlorobenzene	26.34	180	701877	35.71766	ppb		99

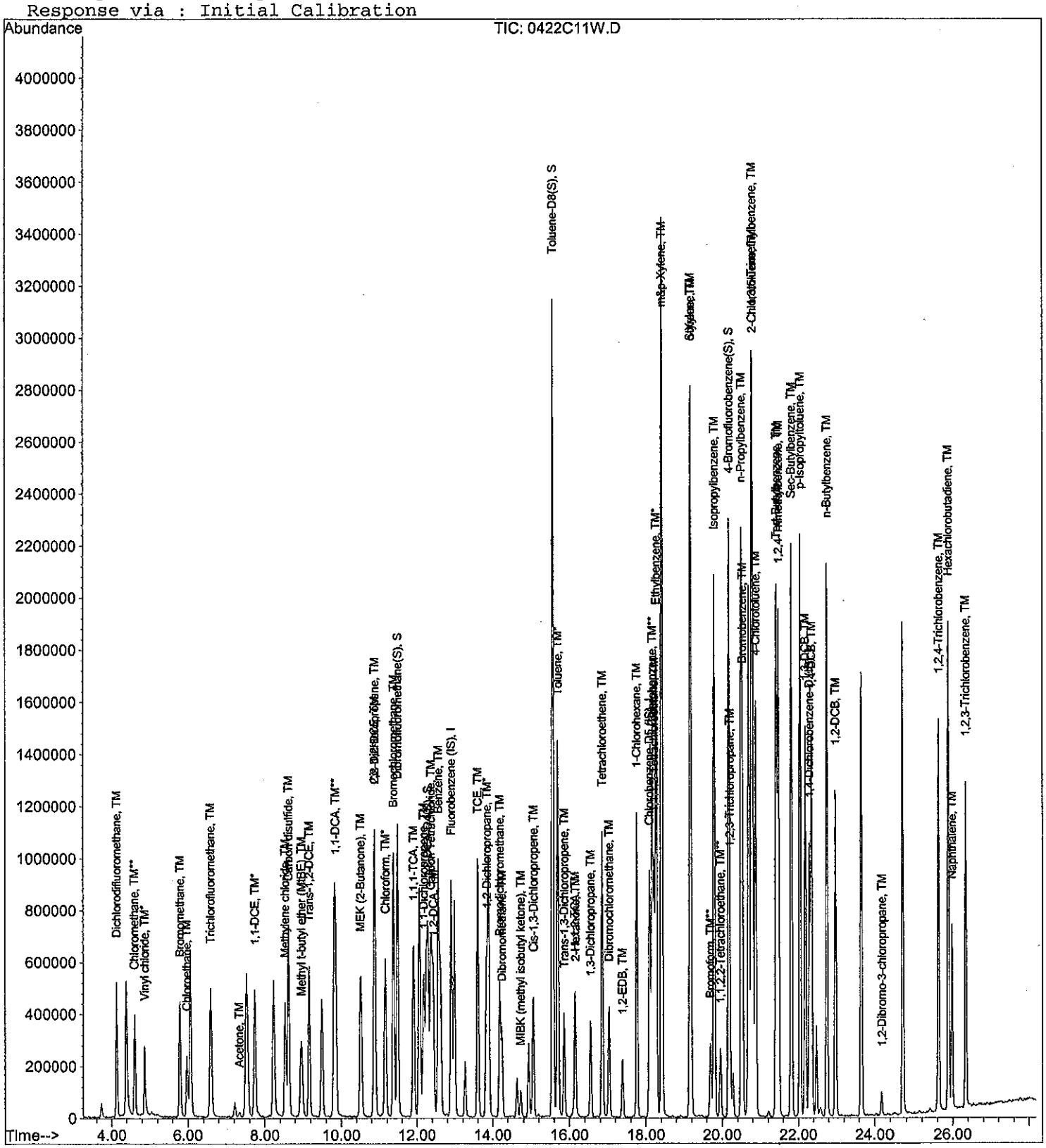
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C11W.D Vial: 1
Acq On : 22 Apr 11 22:07 Operator: RS
Sample : Vol Std 04-22-11@40ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C12W.D Vial: 1
Acq On : 22 Apr 11 22:42 Operator: RS
Sample : Vol Std 04-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	530752	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	386432	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	208512	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	1447087	88.97107 ppb		0.00
Spiked Amount 23.521			Recovery = 378.270%			
23) 1,2-DCA-D4(S)	12.29	65	893215	79.67828 ppb		0.00
Spiked Amount 22.321			Recovery = 356.971%			
36) Toluene-D8(S)	15.56	98	4858634	93.10396 ppb		0.00
Spiked Amount 26.002			Recovery = 358.068%			
44) 4-Bromofluorobenzene(S)	20.17	95	1722224	86.63624 ppb		0.00
Spiked Amount 26.339			Recovery = 328.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	1715239	74.68802 ppb		95
3) Chloromethane	4.60	50	1594055	73.91076 ppb		98
4) Vinyl chloride	4.86	62	445120	79.53091 ppb		98
5) Bromomethane	5.78	94	428096	99.59529 ppb		96
6) Chloroethane	5.98	64	986007	80.45300 ppb		96
7) Trichlorofluoromethane	6.59	101	2091957	79.58118 ppb		98
8) Acetone	7.34	43	87934	82.36564 ppb	#	77
9) 1,1-DCE	7.75	96	960265	86.56766 ppb		89
10) Methylene chloride	8.54	84	940964	97.72035 ppb		97
11) Carbon disulfide	8.63	76	4473488	87.52503 ppb		99
12) Methyl t-butyl ether (MtBE	8.97	73	1697396	89.34981 ppb		96
13) Trans-1,2-DCE	9.17	96	1134896	90.59328 ppb		93
14) 1,1-DCA	9.86	63	1913315	87.19752 ppb		100
15) MEK (2-Butanone)	10.50	43	349474	72.30057 ppb	#	79
16) Cis-1,2-DCE	10.88	96	1369551	87.13916 ppb		96
17) 2,2-Dichloropropane	10.87	77	1719953	77.90532 ppb		97
18) Chloroform	11.15	83	2135253	85.46435 ppb		98
19) Bromochloromethane	11.39	128	499124	93.75835 ppb		96
21) 1,1,1-TCA	11.90	97	2067743	84.77245 ppb		99
22) 1,1-Dichloropropene	12.17	75	1350222	85.73560 ppb		98
24) Carbon Tetrachloride	12.36	117	1806221	80.12831 ppb		98
25) 1,2-DCA	12.44	62	893020	80.89073 ppb		98
26) Benzene	12.57	78	4150334	92.19229 ppb		98
27) TCE	13.60	95	1370567	92.55227 ppb		95
28) 1,2-Dichloropropane	13.82	63	1001555	96.20138 ppb		100
29) Bromodichloromethane	14.18	83	1456187	86.10177 ppb		98
30) Dibromomethane	14.23	93	508892	89.41118 ppb		92
31) Cis-1,3-Dichloropropene	15.06	75	1493203	94.17649 ppb		96
32) Toluene	15.70	92	3083496	95.07688 ppb		99
33) Trans-1,3-Dichloropropene	15.86	75	1112927	91.53817 ppb		100
34) 1,1,2-TCA	16.13	83	523115	95.10794 ppb		97
37) 1,2-EDB	17.38	107	688251	98.42196 ppb		88
38) Tetrachloroethene	16.85	164	1277753	92.85471 ppb		99
39) 1-Chlorohexane	17.76	91	2075816	95.86964 ppb		95
40) 1,1,1,2-Tetrachloroethane	18.21	131	1349043	92.26894 ppb		98
41) m&p-Xylene	18.42	106	5089036	183.70019 ppb		99
42) o-Xylene	19.16	106	2544150	93.45631 ppb		94
43) Styrene	19.17	78	1719751	81.12749 ppb		93
45) 2-Hexanone	16.15	43	196612	87.40593 ppb	#	74

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C12W.D Vial: 1
Acq On : 22 Apr 11 22:42 Operator: RS
Sample : Vol Std 04-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.55	76	1079099	96.04401	ppb		99
47)	Dibromochloromethane	17.03	129	1064878	95.77103	ppb		93
48)	Chlorobenzene	18.17	112	3687414	92.76629	ppb		95
49)	Ethylbenzene	18.27	91	6239267	91.23376	ppb		99
50)	Bromoform	19.69	173	646809	97.29603	ppb		100
52)	MIBK (methyl isobutyl keto	14.73	43	314584	93.91441	ppb		91
53)	Isopropylbenzene	19.79	105	6850150	99.68820	ppb		100
54)	1,1,2,2-Tetrachloroethane	19.95	83	592498	106.41020	ppb		93
55)	1,2,3-Trichloropropane	20.21	110	186984	96.83458	ppb		80
56)	Bromobenzene	20.54	156	1561900	96.45911	ppb		94
57)	n-Propylbenzene	20.50	91	7625553	97.87736	ppb		97
58)	2-Chlorotoluene	20.80	91	4900402	94.86964	ppb		92
59)	1,3,5-Trimethylbenzene	20.77	105	5367950	98.41941	ppb		95
60)	4-Chlorotoluene	20.88	91	4177487	93.57202	ppb		97
61)	Tert-Butylbenzene	21.42	119	5945503	98.92186	ppb		98
62)	1,2,4-Trimethylbenzene	21.47	105	5374128	97.07060	ppb		98
63)	Sec-Butylbenzene	21.81	105	7575582	98.30443	ppb		98
64)	p-Isopropyltoluene	22.05	119	6351300	98.19366	ppb		97
65)	1,3-DCB	22.18	146	3237063	96.54876	ppb		97
66)	1,4-DCB	22.35	146	3065931	97.53088	ppb		95
67)	n-Butylbenzene	22.75	91	5106089	95.05433	ppb		99
68)	1,2-DCB	22.97	146	2651887	98.54639	ppb		99
69)	1,2-Dibromo-3-chloropropan	24.18	157	158695	108.20780	ppb	#	74
70)	1,2,4-Trichlorobenzene	25.62	180	872254	90.13881	ppb		97
71)	Hexachlorobutadiene	25.89	223	413623	87.63914	ppb		93
72)	Naphthalene	25.98	128	1024192	101.70095	ppb		100
73)	1,2,3-Trichlorobenzene	26.34	180	1815892	92.06816	ppb		98

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

Quantitation Report

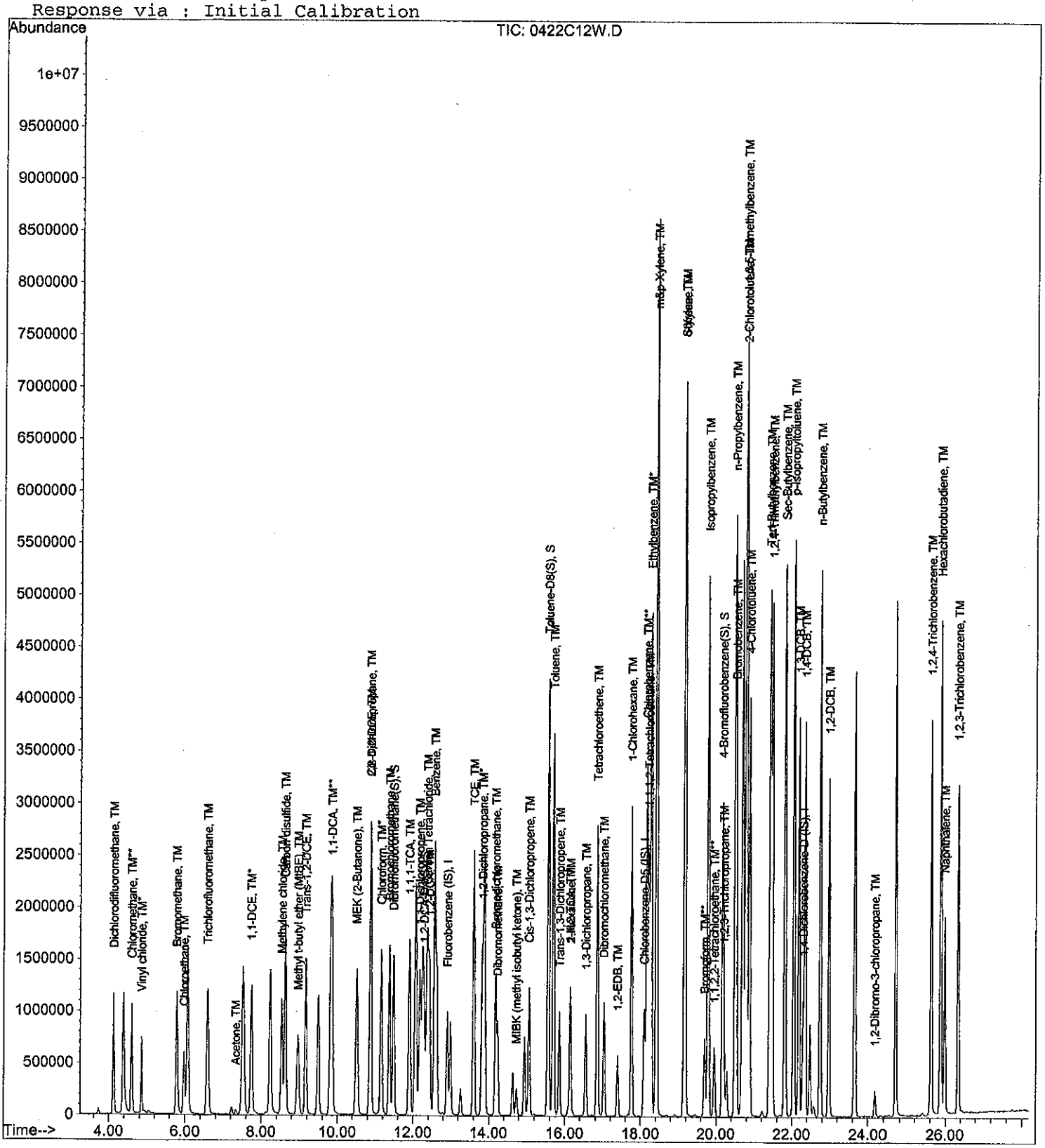
Data File : M:\CHICO\DATA\C110422\0422C12W.D
Acq On : 22 Apr 11 22:42
Sample : Vol Std 04-22-11@100ug/L
Misc : Water 10ml w/IS: 04-12-11

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

Quant Time: Apr 24 15:44 2011

Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 100484
Date Analyzed: 04/23/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0422C25W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.8305	0.9298	12	TM	
3	TM**	Chloromethane	0.7750	0.8793	13	TM**	
4	TM*	Vinyl chloride	0.2212	0.2584	17	TM*	
5	TML	Bromomethane	0.1872	0.1919	2.5	TML	6.5
6	TM	Chloroethane	0.5111	0.5505	7.7	TM	
7	TM	Trichlorofluoromethane	1.050	1.181	12	TM	
8	TML	Acetone	0.0744	0.0442	41	TML	15
9	TM*	1,1-DCE	0.4919	0.5169	5.1	TM*	
10	TML	Methylene chloride	0.5653	0.5044	11	TML	2.2
11	TM	Carbon disulfide	2.024	2.373	17	TM	
12	TM	Methyl t-butyl ether (MtBE)	0.8341	0.7877	5.6	TM	
13	TML	Trans-1,2-DCE	0.5864	0.5767	1.7	TML	4.8
14	TM**	1,1-DCA	1.019	1.023	0.38	TM**	
15	TM	MEK (2-Butanone)	0.1939	0.1707	12	TM	
16	TM	Cis-1,2-DCE	0.7277	0.7032	3.4	TM	
17	TM	2,2-Dichloropropane	0.9418	0.7871	16	TM	
18	TM*	Chloroform	1.096	1.111	1.3	TM*	
19	TM	Bromochloromethane	0.2437	0.2479	1.7	TM	
20	S	Dibromofluoromethane(S)	0.7983	0.7138	11	S	
21	TM	1,1,1-TCA	1.064	1.117	4.9	TM	
22	TM	1,1-Dichloropropene	0.6943	0.7098	2.2	TM	
23	S	1,2-DCA-D4(S)	0.5091	0.4437	13	S	
24	TM	Carbon Tetrachloride	0.9332	0.9492	1.7	TM	
25	TM	1,2-DCA	0.4596	0.4659	1.4	TM	
26	TM	Benzene	2.124	2.147	1.1	TM	
27	TM	TCE	0.6987	0.7953	14	TM	
28	TM*	1,2-Dichloropropane	0.5214	0.5128	1.6	TM*	
29	TM	Bromodichloromethane	0.7379	0.6931	6.1	TM	
30	TM	Dibromomethane	0.2520	0.2611	3.6	TM	
31	TM	Cis-1,3-Dichloropropene	0.7392	0.6865	7.1	TM	
32	TM*	Toluene	1.563	1.670	6.8	TM*	
33	TM	Trans-1,3-Dichloropropene	0.5522	0.5022	9.1	TM	
34	TM	1,1,2-TCA	0.2502	0.2555	2.1	TM	
35	I	Chlorobenzene-D5 (IS)	ISTD			I	
36	S	Toluene-D8(S)	3.556	3.326	6.5	S	
37	TM	1,2-EDB	0.4402	0.4022	8.6	TM	
38	TM	Tetrachloroethene	0.8780	0.8908	1.5	TM	
39	TM	1-Chlorohexane	1.384	1.457	5.2	TM	
40	TM	1,1,1,2-Tetrachloroethane	0.9000	0.8844	1.7	TM	
		Average			7.6		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No:
Date Analyzed: 04/23/11
Instrument: Chico
Cal. Date: 04/22/11
Data File: 0422C25W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	m&p-Xylene	1.746	1.797	2.9	TM	
42	TM	o-Xylene	1.721	1.772	2.9	TM	
43	TM	Styrene	1.271	1.222	3.8	TM	
44	SL	4-Bromofluorobenzene(S)	1.425	1.212	15	SL	3.2
45	TM	2-Hexanone	0.1292	0.1304	0.98	TM	
46	TM	1,3-Dichloropropane	0.7089	0.6653	6.2	TM	
47	TM	Dibromochloromethane	0.6915	0.6569	5.0	TM	
48	TM**	Chlorobenzene	2.528	2.564	1.4	TM**	
49	TM*	Ethylbenzene	4.261	4.384	2.9	TM*	
50	TM**	Bromoform	0.4085	0.3971	2.8	TM**	
51	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
52	TM	MIBK (methyl isobutyl ketone)	0.4153	0.4026	3.1	TM	
53	TM	Isopropylbenzene	8.558	8.712	1.8	TM	
54	TM**	1,1,2,2-Tetrachloroethane	0.7025	0.5781	18	TM**	
55	TM	1,2,3-Trichloropropane	0.2201	0.2250	2.2	TM	
56	TM	Bromobenzene	2.051	1.920	6.4	TM	
57	TM	n-Propylbenzene	9.606	9.603	0.04	TM	
58	TM	2-Chlorotoluene	6.367	6.165	3.2	TM	
59	TM	1,3,5-Trimethylbenzene	6.731	6.592	2.1	TM	
60	TM	4-Chlorotoluene	5.509	5.329	3.3	TM	
61	TM	Tert-Butylbenzene	7.385	7.498	1.5	TM	
62	TM	1,2,4-Trimethylbenzene	6.795	6.856	0.90	TM	
63	TM	Sec-Butylbenzene	9.513	9.536	0.24	TM	
64	TM	p-Isopropyltoluene	7.898	7.844	0.68	TM	
65	TM	1,3-DCB	4.202	3.962	5.7	TM	
66	TM	1,4-DCB	3.818	3.658	4.2	TM	
67	TM	n-Butylbenzene	6.625	6.322	4.6	TM	
68	TM	1,2-DCB	3.362	3.179	5.4	TM	
69	TM	1,2-Dibromo-3-chloropropane	0.1869	0.1582	15	TM	
70	TM	1,2,4-Trichlorobenzene	1.172	1.015	13	TM	
71	TM	Hexachlorobutadiene	0.5758	0.5265	8.6	TM	
72	TM	Naphthalene	1.242	1.059	15	TM	
73	TM	1,2,3-Trichlorobenzene	2.334	2.056	12	TM	
74							
75							
76							
77							
78							
79							
80							
		Average			5.3		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C25W.D Vial: 1
Acq On : 23 Apr 11 7:28 Operator: RS
Sample : 110422A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:51 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.91	96	455808	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.09	117	350144	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	195456	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	325333	22.35090 ppb		0.00
Spiked Amount 23.521			Recovery =	95.028%		
23) 1,2-DCA-D4(S)	12.29	65	202265	21.79074 ppb		0.00
Spiked Amount 22.321			Recovery =	97.627%		
36) Toluene-D8(S)	15.56	98	1164463	23.38145 ppb		0.00
Spiked Amount 26.002			Recovery =	89.921%		
44) 4-Bromofluorobenzene(S)	20.16	95	424316	25.80744 ppb		0.00
Spiked Amount 26.339			Recovery =	97.982%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	169519	11.19582 ppb		95
3) Chloromethane	4.61	50	160312	11.34479 ppb		92
4) Vinyl chloride	4.89	62	47120	11.68554 ppb		94
5) Bromomethane	5.79	94	34992	9.34700 ppb		91
6) Chloroethane	5.98	64	100378	10.77170 ppb		98
7) Trichlorofluoromethane	6.59	101	215291	11.24239 ppb		90
8) Acetone	7.33	43	8052	8.47071 ppb	#	67
9) 1,1-DCE	7.75	96	94237	10.50780 ppb		90
10) Methylene chloride	8.53	84	91958	10.22223 ppb		93
11) Carbon disulfide	8.63	76	432683	11.72657 ppb		98
12) Methyl t-butyl ether (MtBE	8.96	73	143624	9.44465 ppb		96
13) Trans-1,2-DCE	9.16	96	105142	10.47839 ppb		95
14) 1,1-DCA	9.86	63	186480	10.03801 ppb		98
15) MEK (2-Butanone)	10.50	43	31123	8.80539 ppb	#	90
16) Cis-1,2-DCE	10.88	96	128211	9.66381 ppb		92
17) 2,2-Dichloropropane	10.88	77	143499	8.35689 ppb		99
18) Chloroform	11.16	83	202543	10.13316 ppb		98
19) Bromochloromethane	11.38	128	45197	10.17121 ppb		98
21) 1,1,1-TCA	11.90	97	203618	10.49431 ppb		98
22) 1,1-Dichloropropene	12.17	75	129404	10.22252 ppb		97
24) Carbon Tetrachloride	12.36	117	173058	10.17112 ppb		97
25) 1,2-DCA	12.44	62	84952	10.13766 ppb		99
26) Benzene	12.57	78	391444	10.10664 ppb		97
27) TCE	13.59	95	144995	11.38219 ppb		97
28) 1,2-Dichloropropane	13.83	63	93491	9.83511 ppb		98
29) Bromodichloromethane	14.17	83	126365	9.39320 ppb		99
30) Dibromomethane	14.23	93	47604	10.36253 ppb		89
31) Cis-1,3-Dichloropropene	15.06	75	125174	9.28746 ppb		98
32) Toluene	15.69	92	304468	10.68218 ppb		100
33) Trans-1,3-Dichloropropene	15.86	75	91560	9.09388 ppb		96
34) 1,1,2-TCA	16.14	83	46586	10.21064 ppb		94
37) 1,2-EDB	17.39	107	56335	9.13650 ppb		90
38) Tetrachloroethene	16.85	164	124765	10.14634 ppb		96
39) 1-Chlorohexane	17.76	91	204031	10.52286 ppb		93
40) 1,1,1,2-Tetrachloroethane	18.22	131	123864	9.82656 ppb		92
41) m&p-Xylene	18.41	106	503258	20.58009 ppb		96
42) o-Xylene	19.16	106	248174	10.29442 ppb		97
43) Styrene	19.18	78	171208	9.62020 ppb		99
45) 2-Hexanone	16.16	43	18269	10.09781 ppb	#	67

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C25W.D Vial: 1
Acq On : 23 Apr 11 7:28 Operator: RS
Sample : 110422A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:51 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46)	1,3-Dichloropropane	16.55	76	93178	9.38499	ppb	97
47)	Dibromochloromethane	17.03	129	91998	9.49879	ppb	92
48)	Chlorobenzene	18.16	112	359061	10.14123	ppb	97
49)	Ethylbenzene	18.28	91	614016	10.28756	ppb	99
50)	Bromoform	19.70	173	55612	9.71937	ppb	87
52)	MIBK (methyl isobutyl keto	14.73	43	31477	9.69430	ppb	80
53)	Isopropylbenzene	19.78	105	681130	10.18013	ppb	97
54)	1,1,2,2-Tetrachloroethane	19.95	83	45200	8.23002	ppb	87
55)	1,2,3-Trichloropropane	20.21	110	17588	10.21867	ppb	92
56)	Bromobenzene	20.53	156	150142	9.36194	ppb	98
57)	n-Propylbenzene	20.49	91	750768	9.99623	ppb	98
58)	2-Chlorotoluene	20.79	91	482009	9.68298	ppb	96
59)	1,3,5-Trimethylbenzene	20.77	105	515371	9.79407	ppb	95
60)	4-Chlorotoluene	20.87	91	416605	9.67255	ppb	98
61)	Tert-Butylbenzene	21.41	119	586192	10.15250	ppb	98
62)	1,2,4-Trimethylbenzene	21.47	105	536025	10.08982	ppb	96
63)	Sec-Butylbenzene	21.81	105	745549	10.02375	ppb	99
64)	p-Isopropyltoluene	22.04	119	613264	9.93157	ppb	99
65)	1,3-DCB	22.18	146	309737	9.42882	ppb	98
66)	1,4-DCB	22.35	146	285971	9.58092	ppb	97
67)	n-Butylbenzene	22.74	91	494267	9.54259	ppb	99
68)	1,2-DCB	22.98	146	248534	9.45620	ppb	96
69)	1,2-Dibromo-3-chloropropan	24.19	157	12368	8.46579	ppb	92
70)	1,2,4-Trichlorobenzene	25.63	180	79376	8.66526	ppb	95
71)	Hexachlorobutadiene	25.88	223	41160	9.14387	ppb	98
72)	Naphthalene	25.99	128	82808	8.52657	ppb	98
73)	1,2,3-Trichlorobenzene	26.34	180	160781	8.81114	ppb	95

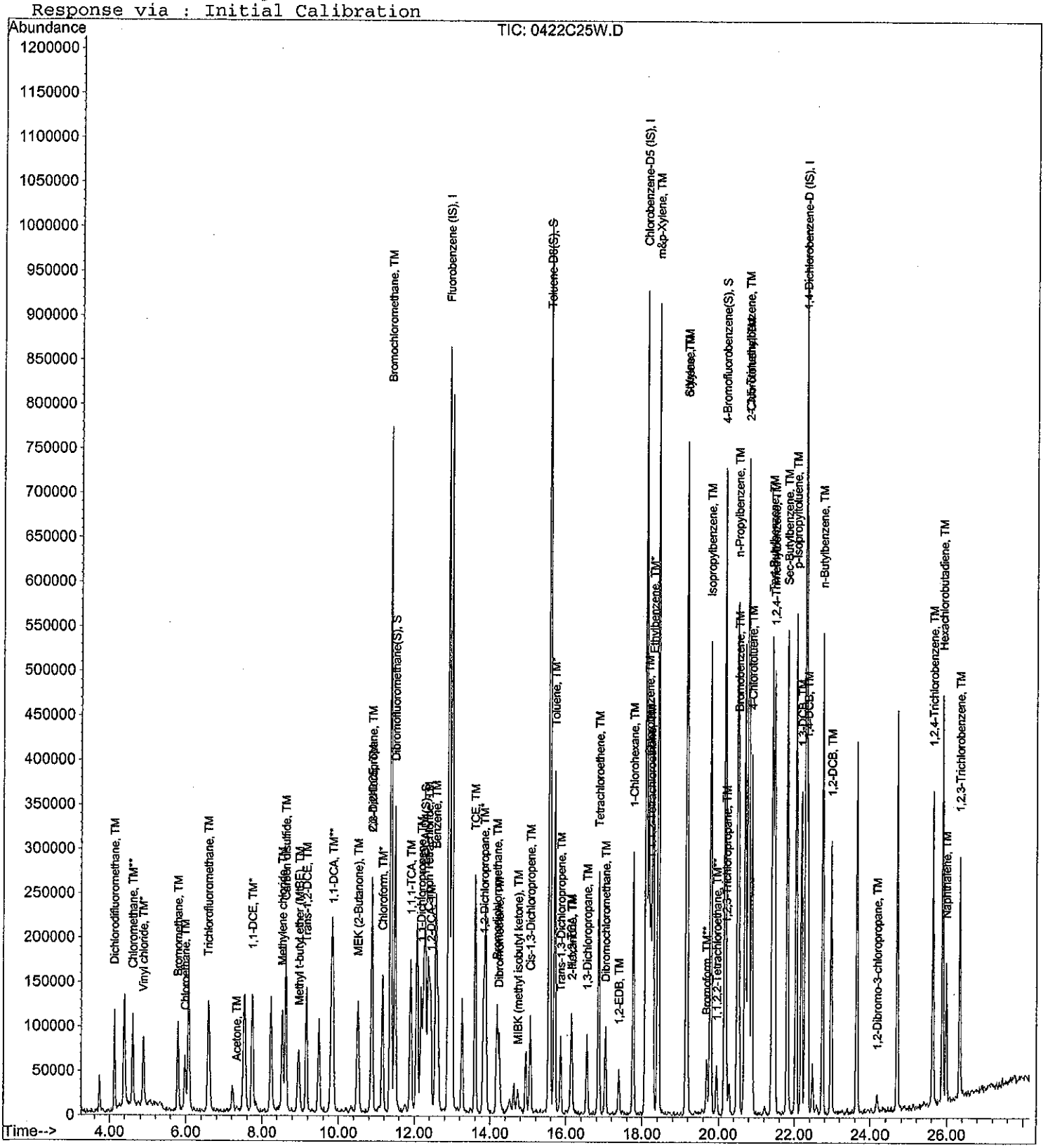
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C25W.D Vial: 1
Acq On : 23 Apr 11 7:28 Operator: RS
Sample : 110422A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:51 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 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: L44841
Date Analyzed: 04/25/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0425C02W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.8305	0.9519	15	TM		
3	TM**	Chloromethane	0.7750	0.8399	8.4	TM**		
4	TM*	Vinyl chloride	0.2212	0.2061	6.8	TM*		
5	TML	Bromomethane	0.1872	0.1922	2.7	TML	6.4	
6	TM	Chloroethane	0.5111	0.5726	12	TM		
7	TM	Trichlorofluoromethane	1.050	1.148	9.3	TM		
8	TML	Acetone	0.0744	0.0499	33	TML	1.1	
9	TM*	1,1-DCE	0.4919	0.5177	5.2	TM*		
10	TML	Methylene chloride	0.5653	0.4983	12	TML	0.85	
11	TM	Carbon disulfide	2.024	2.479	22	TM		NT
12	TM	Methyl t-butyl ether (MtBE)	0.8341	0.7539	9.6	TM		
13	TML	Trans-1,2-DCE	0.5864	0.5712	2.6	TML	3.8	
14	TM**	1,1-DCA	1.019	1.045	2.5	TM**		
15	TM	MEK (2-Butanone)	0.1939	0.1677	13	TM		
16	TM	Cis-1,2-DCE	0.7277	0.7397	1.6	TM		
17	TM	2,2-Dichloropropane	0.9418	0.9802	4.1	TM		
18	TM*	Chloroform	1.096	1.073	2.1	TM*		
19	TM	Bromochloromethane	0.2437	0.2453	0.66	TM		
20	S	Dibromofluoromethane(S)	0.7983	0.6526	18	S		
21	TM	1,1,1-TCA	1.064	1.057	0.69	TM		
22	TM	1,1-Dichloropropene	0.6943	0.7448	7.3	TM		
23	S	1,2-DCA-D4(S)	0.5091	0.3856	24	S		
24	TM	Carbon Tetrachloride	0.9332	0.9371	0.42	TM		
25	TM	1,2-DCA	0.4596	0.4211	8.4	TM		
26	TM	Benzene	2.124	2.216	4.3	TM		
27	TM	TCE	0.6987	0.6867	1.7	TM		
28	TM*	1,2-Dichloropropane	0.5214	0.4915	5.7	TM*		
29	TM	Bromodichloromethane	0.7379	0.6691	9.3	TM		
30	TM	Dibromomethane	0.2520	0.2277	9.6	TM		
31	TM	Cis-1,3-Dichloropropene	0.7392	0.6985	5.5	TM		
32	TM*	Toluene	1.563	1.624	3.9	TM*		
33	TM	Trans-1,3-Dichloropropene	0.5522	0.4855	12	TM		
34	TM	1,1,2-TCA	0.2502	0.2356	5.9	TM		
35	I	Chlorobenzene-D5 (IS)	ISTD			I		
36	S	Toluene-D8(S)	3.556	3.473	2.3	S		
37	TM	1,2-EDB	0.4402	0.4209	4.4	TM		
38	TM	Tetrachloroethene	0.8780	0.9483	8.0	TM		
39	TM	1-Chlorohexane	1.384	1.620	17	TM		
40	TM	1,1,1,2-Tetrachloroethane	0.9000	0.8939	0.67	TM		
		Average			8.2			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: Couuny
Date Analyzed: 04/25/11
Instrument: Chico
Cal. Date: 04/22/11
Data File: 0425C02W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	m&p-Xylene	1.746	1.859	6.5	TM	
42	TM	o-Xylene	1.721	1.875	9.0	TM	
43	TM	Styrene	1.271	1.237	2.7	TM	
44	SL	4-Bromofluorobenzene(S)	1.425	1.181	17	SL	0.47
45	TM	2-Hexanone	0.1292	0.1253	3.0	TM	
46	TM	1,3-Dichloropropane	0.7089	0.7007	1.2	TM	
47	TM	Dibromochloromethane	0.6915	0.6337	8.4	TM	
48	TM**	Chlorobenzene	2.528	2.644	4.6	TM**	
49	TM*	Ethylbenzene	4.261	4.539	6.5	TM*	
50	TM**	Bromoform	0.4085	0.3794	7.1	TM**	
51	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
52	TM	MIBK (methyl isobutyl ketone)	0.4153	0.4020	3.2	TM	
53	TM	Isopropylbenzene	8.558	9.234	7.9	TM	
54	TM**	1,1,2,2-Tetrachloroethane	0.7025	0.6944	1.1	TM**	
55	TM	1,2,3-Trichloropropane	0.2201	0.2015	8.5	TM	
56	TM	Bromobenzene	2.051	1.950	4.9	TM	
57	TM	n-Propylbenzene	9.606	10.3	6.9	TM	
58	TM	2-Chlorotoluene	6.367	6.508	2.2	TM	
59	TM	1,3,5-Trimethylbenzene	6.731	7.006	4.1	TM	
60	TM	4-Chlorotoluene	5.509	5.215	5.3	TM	
61	TM	Tert-Butylbenzene	7.385	7.894	6.9	TM	
62	TM	1,2,4-Trimethylbenzene	6.795	7.218	6.2	TM	
63	TM	Sec-Butylbenzene	9.513	10.2	7.1	TM	
64	TM	p-Isopropyltoluene	7.898	8.562	8.4	TM	
65	TM	1,3-DCB	4.202	4.088	2.7	TM	
66	TM	1,4-DCB	3.818	3.716	2.7	TM	
67	TM	n-Butylbenzene	6.625	7.045	6.3	TM	
68	TM	1,2-DCB	3.362	3.315	1.4	TM	
69	TM	1,2-Dibromo-3-chloropropane	0.1869	0.1750	6.3	TM	
70	TM	1,2,4-Trichlorobenzene	1.172	1.053	10	TM	
71	TM	Hexachlorobutadiene	0.5758	0.5381	6.5	TM	
72	TM	Naphthalene	1.242	1.146	7.8	TM	
73	TM	1,2,3-Trichlorobenzene	2.334	2.000	14	TM	
74							
75							
76							
77							
78							
79							
80							
		Average			6.1		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C02W.D Vial: 1
Acq On : 25 Apr 11 11:17 Operator: RS
Sample : 110425A LCS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:38 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 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	540425	25.00000 ppb		-0.03
35) Chlorobenzene-D5 (IS)	18.07	117	386816	25.00000 ppb		-0.03
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	216064	25.00000 ppb		-0.03
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.45	111	352664	20.43500 ppb		-0.04
Spiked Amount 23.521			Recovery = 86.882%			
23) 1,2-DCA-D4(S)	12.26	65	208392	18.93559 ppb		-0.04
Spiked Amount 22.321			Recovery = 84.836%			
36) Toluene-D8(S)	15.54	98	1343459	24.41813 ppb		-0.03
Spiked Amount 26.002			Recovery = 93.909%			
44) 4-Bromofluorobenzene(S)	20.14	95	456844	25.11776 ppb		-0.03
Spiked Amount 26.339			Recovery = 95.366%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.11	85	205770	11.46215 ppb		94
3) Chloromethane	4.58	50	181555	10.83640 ppb		97
4) Vinyl chloride	4.85	62	44560	9.32041 ppb		97
5) Bromomethane	5.77	94	41547	9.36045 ppb		90
6) Chloroethane	5.96	64	123777	11.20294 ppb		93
7) Trichlorofluoromethane	6.56	101	248064	10.92554 ppb		98
8) Acetone	7.31	43	10792	9.88570 ppb	#	83
9) 1,1-DCE	7.71	96	111904	10.52404 ppb		90
10) Methylene chloride	8.51	84	107719	10.08457 ppb		99
11) Carbon disulfide	8.60	76	535881	12.24944 ppb		97
12) Methyl t-butyl ether (MtBE	8.93	73	162976	9.03918 ppb		97
13) Trans-1,2-DCE	9.13	96	123483	10.37617 ppb		97
14) 1,1-DCA	9.83	63	225845	10.25350 ppb		99
15) MEK (2-Butanone)	10.48	43	36257	8.65178 ppb		97
16) Cis-1,2-DCE	10.85	96	159894	10.16487 ppb		91
17) 2,2-Dichloropropane	10.84	77	211892	10.40775 ppb		100
18) Chloroform	11.12	83	231899	9.78528 ppb		99
19) Bromochloromethane	11.35	128	53031	10.06560 ppb		97
21) 1,1,1-TCA	11.87	97	228464	9.93121 ppb		94
22) 1,1-Dichloropropene	12.14	75	160994	10.72671 ppb		94
24) Carbon Tetrachloride	12.33	117	202571	10.04155 ppb		96
25) 1,2-DCA	12.41	62	91030	9.16210 ppb		97
26) Benzene	12.54	78	479103	10.43308 ppb		98
27) TCE	13.57	95	148446	9.82851 ppb		91
28) 1,2-Dichloropropane	13.79	63	106253	9.42752 ppb		99
29) Bromodichloromethane	14.14	83	144637	9.06802 ppb		99
30) Dibromomethane	14.20	93	49232	9.03892 ppb		78
31) Cis-1,3-Dichloropropene	15.04	75	150985	9.44851 ppb		95
32) Toluene	15.67	92	351016	10.38704 ppb		98
33) Trans-1,3-Dichloropropene	15.83	75	104951	8.79177 ppb		97
34) 1,1,2-TCA	16.11	83	50923	9.41365 ppb		97
37) 1,2-EDB	17.35	107	65127	9.56103 ppb	#	94
38) Tetrachloroethene	16.82	164	146734	10.80164 ppb		96
39) 1-Chlorohexane	17.73	91	250628	11.70063 ppb		91
40) 1,1,1,2-Tetrachloroethane	18.19	131	138315	9.93271 ppb		97
41) m&p-Xylene	18.38	106	575357	21.29787 ppb		94
42) o-Xylene	19.12	106	290188	10.89600 ppb		97
43) Styrene	19.14	78	191367	9.73351 ppb		91
45) 2-Hexanone	16.13	43	19384	9.69836 ppb	#	75

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C02W.D Vial: 1
Acq On : 25 Apr 11 11:17 Operator: RS
Sample : 110425A LCS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:38 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.52	76	108419	9.88481	ppb		97
47)	Dibromochloromethane	17.00	129	98046	9.16352	ppb		80
48)	Chlorobenzene	18.13	112	409041	10.45759	ppb		96
49)	Ethylbenzene	18.24	91	702253	10.65047	ppb		97
50)	Bromoform	19.67	173	58697	9.28598	ppb		97
52)	MIBK (methyl isobutyl keto	14.69	43	34747	9.68070	ppb		84
53)	Isopropylbenzene	19.76	105	798075	10.79031	ppb		99
54)	1,1,2,2-Tetrachloroethane	19.93	83	60016	9.88544	ppb		89
55)	1,2,3-Trichloropropane	20.18	110	17416	9.15362	ppb	#	68
56)	Bromobenzene	20.50	156	168512	9.50520	ppb		96
57)	n-Propylbenzene	20.47	91	887278	10.68702	ppb		97
58)	2-Chlorotoluene	20.76	91	562481	10.22182	ppb		99
59)	1,3,5-Trimethylbenzene	20.74	105	605527	10.40982	ppb		96
60)	4-Chlorotoluene	20.84	91	450696	9.46601	ppb		96
61)	Tert-Butylbenzene	21.38	119	682261	10.68932	ppb		97
62)	1,2,4-Trimethylbenzene	21.44	105	623832	10.62265	ppb		98
63)	Sec-Butylbenzene	21.77	105	880265	10.70617	ppb		97
64)	p-Isopropyltoluene	22.02	119	739955	10.84032	ppb		96
65)	1,3-DCB	22.15	146	353278	9.72853	ppb		99
66)	1,4-DCB	22.32	146	321125	9.73254	ppb		96
67)	n-Butylbenzene	22.72	91	608854	10.63370	ppb		99
68)	1,2-DCB	22.95	146	286526	9.86192	ppb		97
69)	1,2-Dibromo-3-chloropropan	24.16	157	15128	9.36734	ppb		88
70)	1,2,4-Trichlorobenzene	25.61	180	91040	8.99066	ppb		99
71)	Hexachlorobutadiene	25.86	223	46504	9.34570	ppb		90
72)	Naphthalene	25.95	128	99032	9.22453	ppb		99
73)	1,2,3-Trichlorobenzene	26.31	180	172815	8.56733	ppb		96

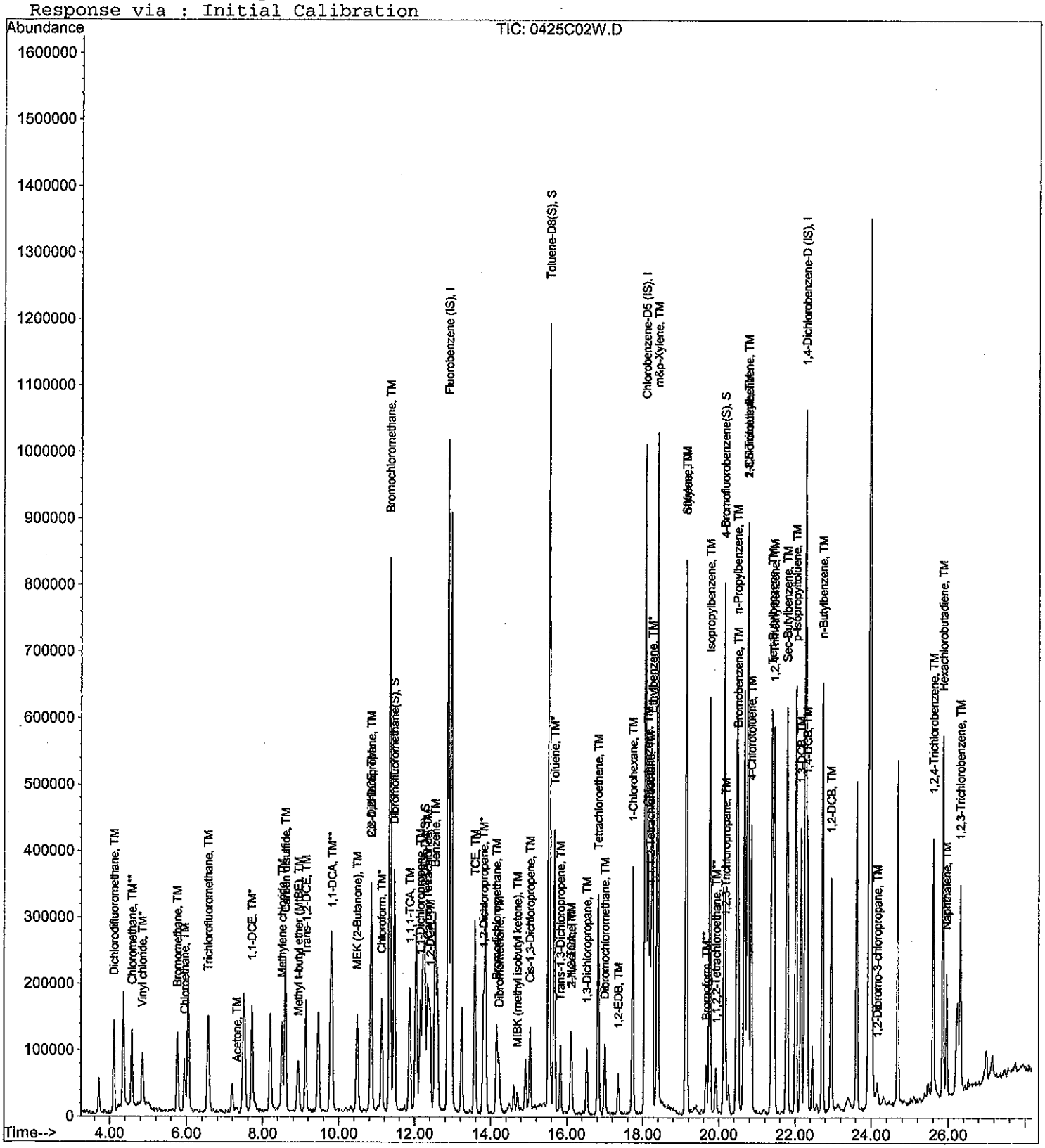
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C02W.D Vial: 1
Acq On : 25 Apr 11 11:17 Operator: RS
Sample : 110425A LCS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:38 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

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

SDG No: 64484
Initial Cal. Date: 04/22/11
Instrument: Chico

Initials:

		Compound	20	50	100	300	600	800	1000				Avg	%RSD		r^2
			0422C14W.D	0422C15W.D	0422C16W.D	0422C17W.D	0422C18W.D	0422C19W.D	0422C20W.D							
1	I	Fluorobenzene (IS)	ISTD													
2	HMBTL	Gasoline	30.0	12.1	7.178	3.536	2.609	2.583	2.348				8.6	117	HMBTL	0.997
3	S	Dibromofluoromethane(S)	1.378	1.372	1.419	1.543	1.292	1.364	1.348				1.4	5.6	S	
4	I	Chlorobenzene-D5 (IS)	ISTD													
5	S	Toluene-D8(S)	3.043	3.195	3.178	3.142	3.128	3.193	3.250				3.2	2.1	S	
6	S	4-Bromofluorobenzene(S)	2.098	2.189	2.231	2.100	2.078	2.028	1.996				2.1	4.0	S	
7	I	1,4-Dichlorobenzene-D (IS)	ISTD													
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Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C14W.D Vial: 1
Acq On : 23 Apr 11 1:03 Operator: RS
Sample : Vol Std 4-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

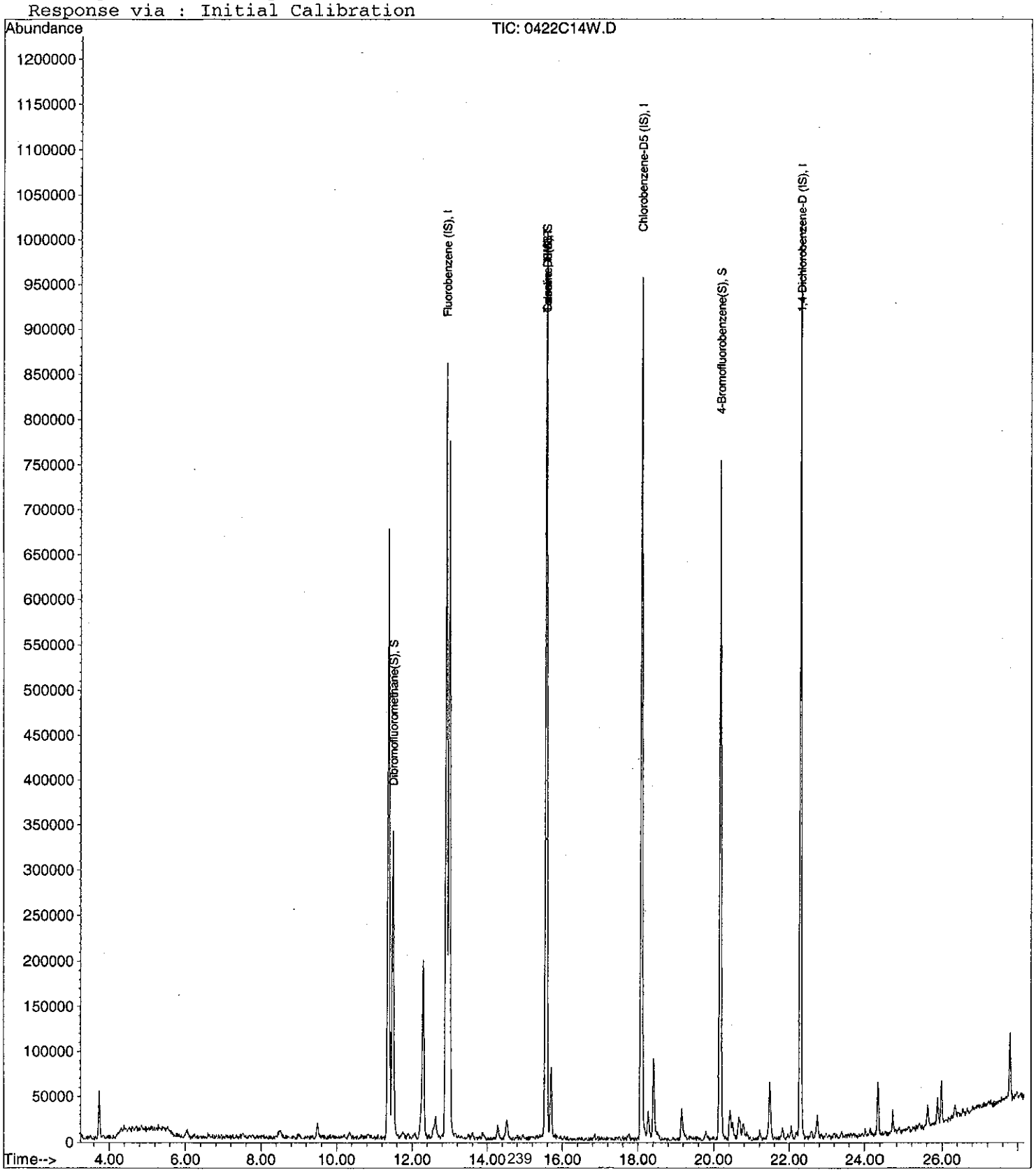
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	856207	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	954704	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1016439	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.49	TIC	1110214	23.35498	ppb	0.00
Spiked Amount 23.521			Recovery =	99.294%		
5) Toluene-D8(S)	15.56	TIC	3021955	25.03151	ppb	0.00
Spiked Amount 26.002			Recovery =	96.270%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	2110312	26.27634	ppb	0.00
Spiked Amount 26.339			Recovery =	99.761%		
Target Compounds						Qvalue
2) Gasoline	15.56	TIC	20556680m	69.08984	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C14W.D Vial: 1
Acq On : 23 Apr 11 1:03 Operator: RS
Sample : Vol Std 4-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C15W.D Vial: 1
Acq On : 23 Apr 11 1:38 Operator: RS
Sample : Vol Std 4-22-11@50ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

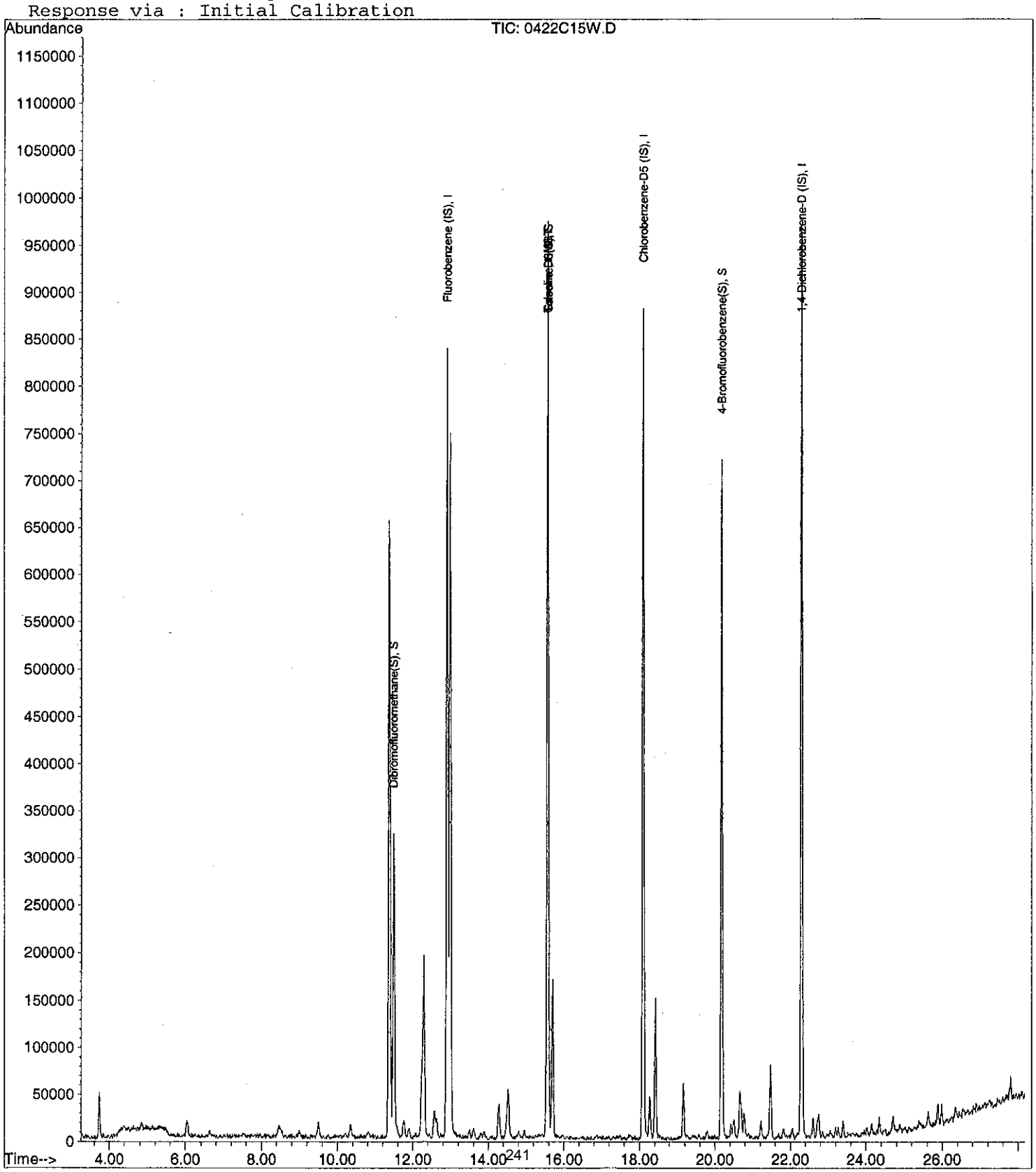
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	836413	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	880090	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	966639	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.48	TIC	1079958	23.25614 ppb	0.00
Spiked Amount 23.521			Recovery =	98.873%	
5) Toluene-D8(S)	15.56	TIC	2924993	26.28243 ppb	0.00
Spiked Amount 26.002			Recovery =	101.077%	
6) 4-Bromofluorobenzene(S)	20.17	TIC	2030076	27.42030 ppb	0.00
Spiked Amount 26.339			Recovery =	104.104%	
Target Compounds					Qvalue
2) Gasoline	15.56	TIC	20251071m	69.67344 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C15W.D Vial: 1
Acq On : 23 Apr 11 1:38 Operator: RS
Sample : Vol Std 4-22-11@50ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C16W.D Vial: 1
Acq On : 23 Apr 11 2:13 Operator: RS
Sample : Vol Std 4-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

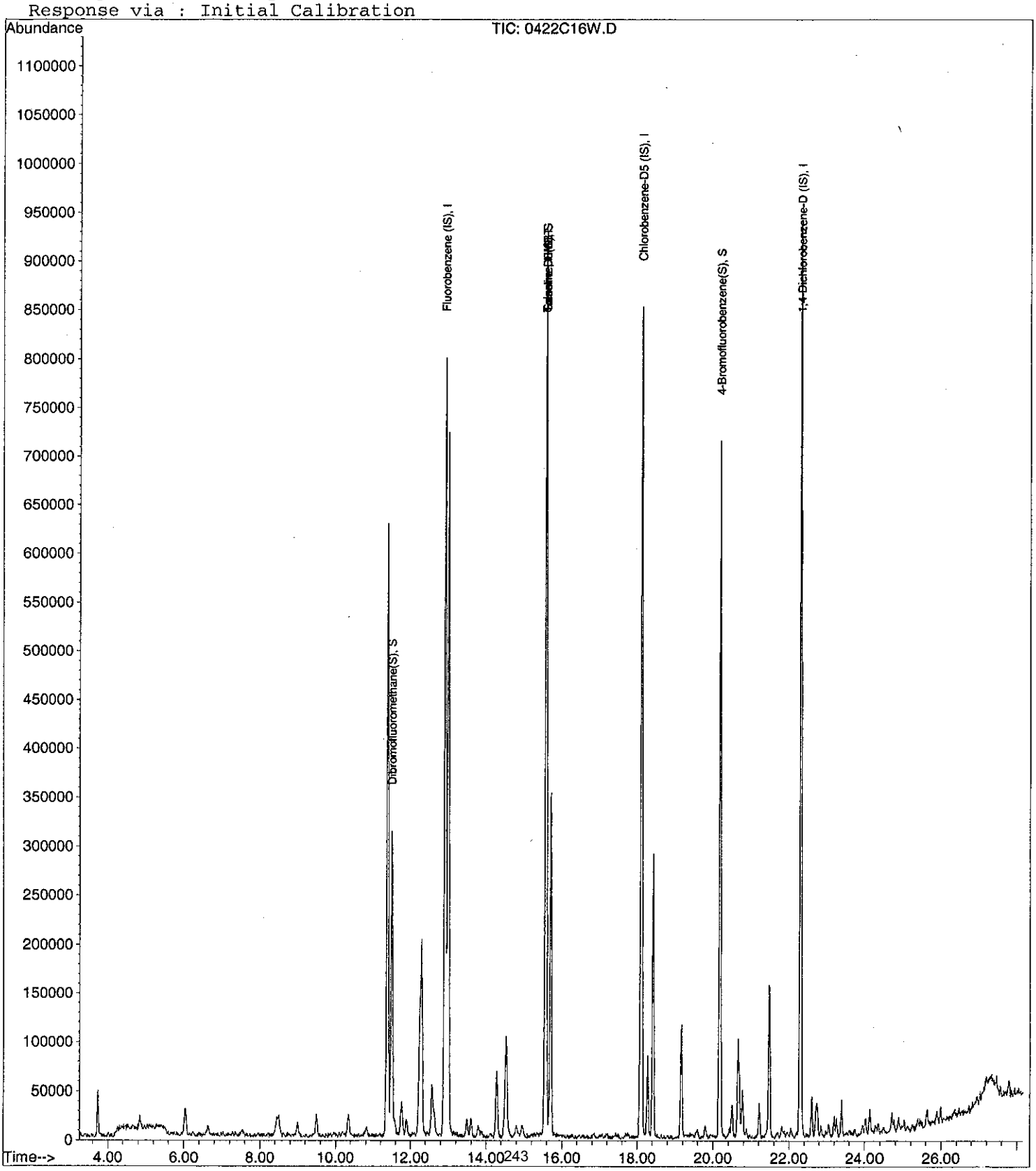
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	796817	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	850460	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	938392	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.48	TIC	1063563	24.04120	ppb	0.00
Spiked Amount 23.521			Recovery = 102.211%			
5) Toluene-D8(S)	15.56	TIC	2810850	26.13675	ppb	0.00
Spiked Amount 26.002			Recovery = 100.519%			
6) 4-Bromofluorobenzene(S)	20.17	TIC	1999437	27.94736	ppb	0.00
Spiked Amount 26.339			Recovery = 106.105%			
Target Compounds						Qvalue
2) Gasoline	15.56	TIC	22879186m	82.62700	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C16W.D Vial: 1
Acq On : 23 Apr 11 2:13 Operator: RS
Sample : Vol Std 4-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C17W.D Vial: 1
Acq On : 23 Apr 11 2:48 Operator: RS
Sample : Vol Std 4-22-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	813193	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	892115	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	963258	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.48	TIC	1180225	26.14103	ppb	0.00
Spiked Amount 23.521			Recovery =	111.139%		
5) Toluene-D8(S)	15.56	TIC	2915689	25.84569	ppb	0.00
Spiked Amount 26.002			Recovery =	99.400%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	1973777	26.30051	ppb	0.00
Spiked Amount 26.339			Recovery =	99.856%		
Target Compounds						Qvalue
2) Gasoline	15.70	TIC	34503406m	122.09794	ppb	100

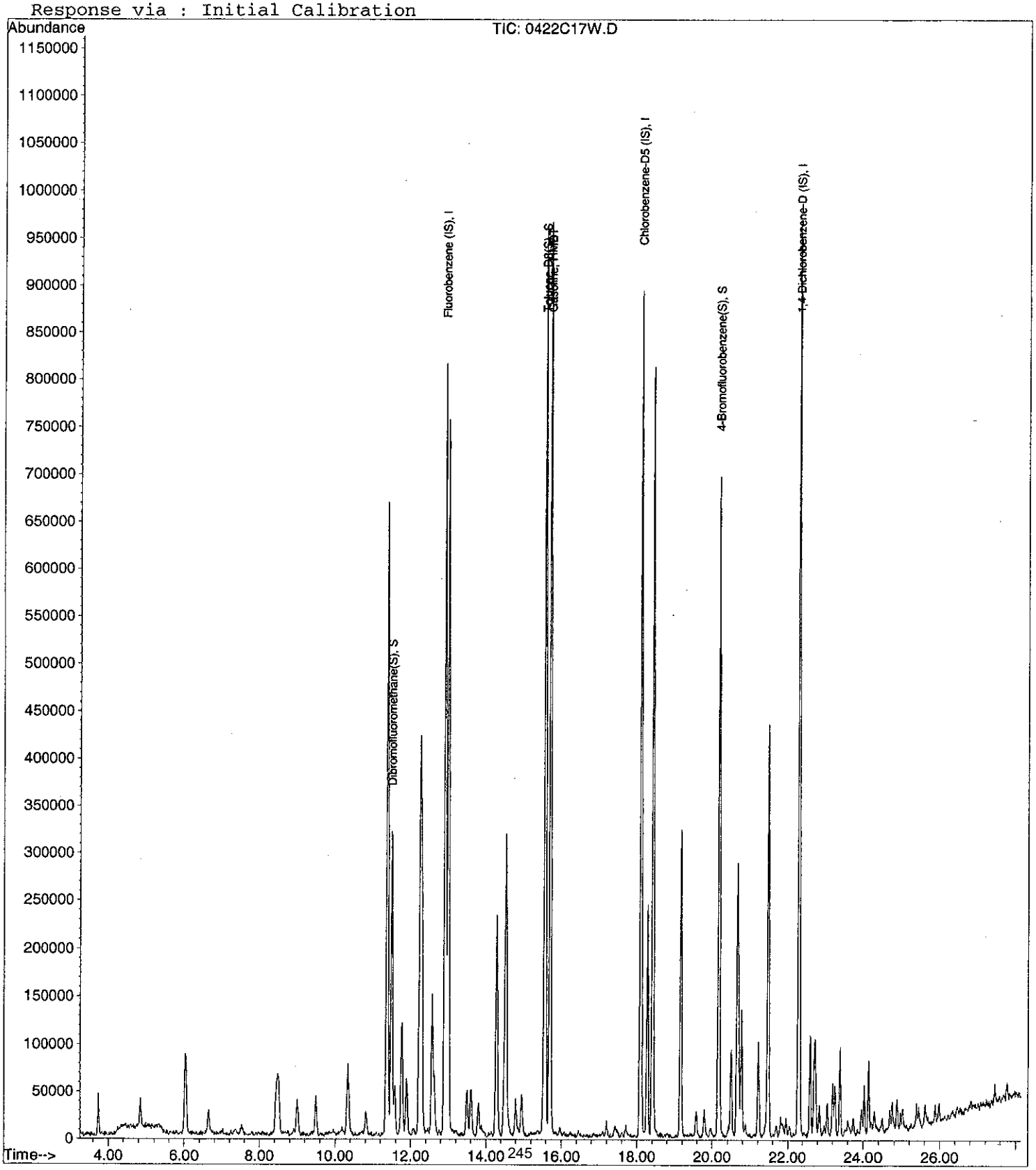
(#) = qualifier out of range (m) = manual integration
0422C17W.D GAS.M Mon May 16 19:47:11 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C17W.D Vial: 1
Acq On : 23 Apr 11 2:48 Operator: RS
Sample : Vol Std 4-22-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C18W.D Vial: 1
Acq On : 23 Apr 11 3:23 Operator: RS
Sample : Vol Std 4-22-11@600ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	839656	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	926859	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1075159	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	1020589	21.89279 ppb	0.00
Spiked Amount 23.521			Recovery =	93.079%	
5) Toluene-D8(S)	15.56	TIC	3015328	25.72697 ppb	0.00
Spiked Amount 26.002			Recovery =	98.942%	
6) 4-Bromofluorobenzene(S)	20.16	TIC	2029523	26.02959 ppb	0.00
Spiked Amount 26.339			Recovery =	98.827%	
Target Compounds					Qvalue
2) Gasoline	15.70	TIC	52581715m	180.20771 ppb	100

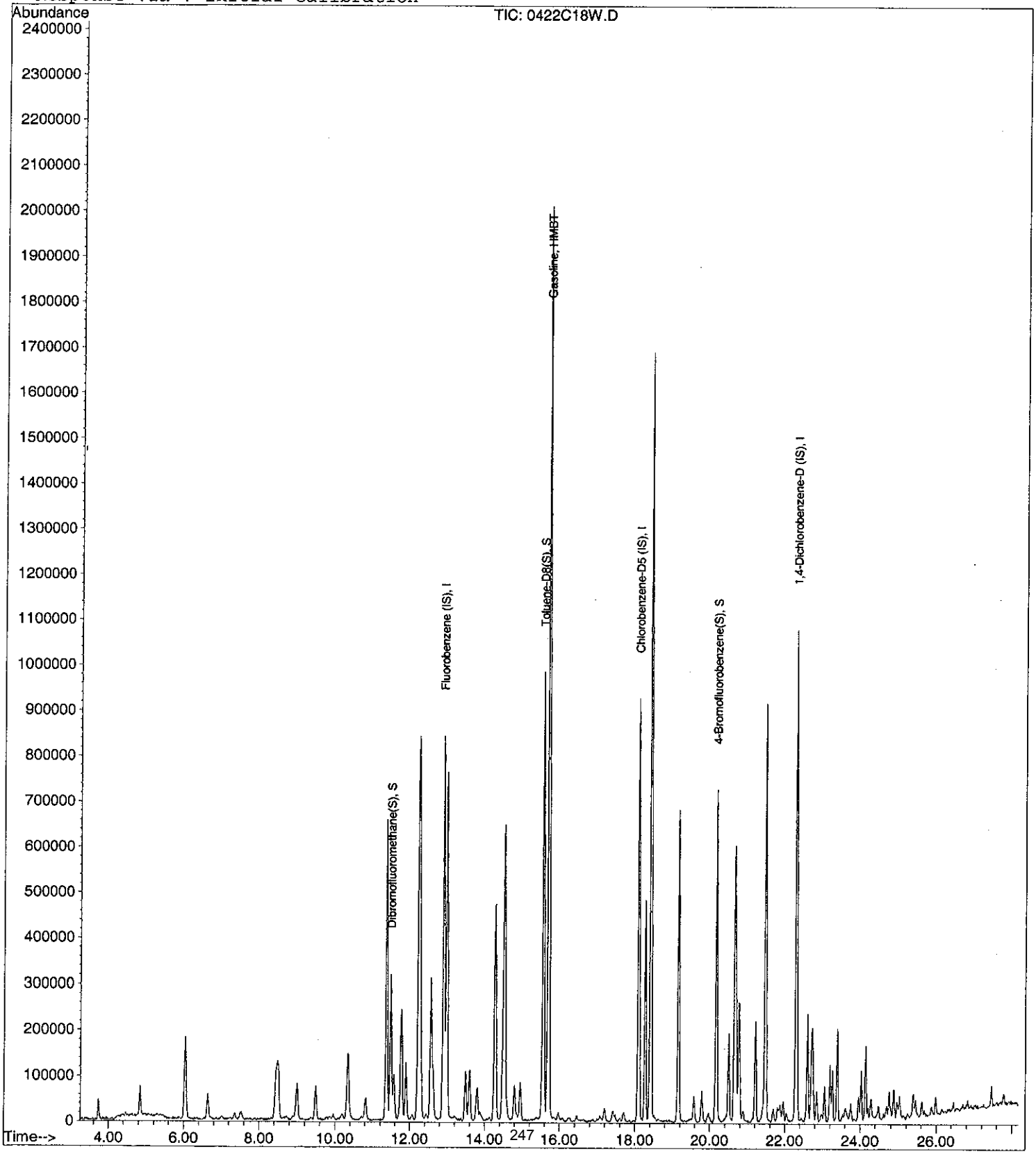
(#) = qualifier out of range (m) = manual integration
0422C18W.D GAS.M Mon May 16 19:47:12 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C18W.D Vial: 1
Acq On : 23 Apr 11 3:23 Operator: RS
Sample : Vol Std 4-22-11@600ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C19W.D Vial: 1
Acq On : 23 Apr 11 3:58 Operator: RS
Sample : Vol Std 4-22-11@800ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

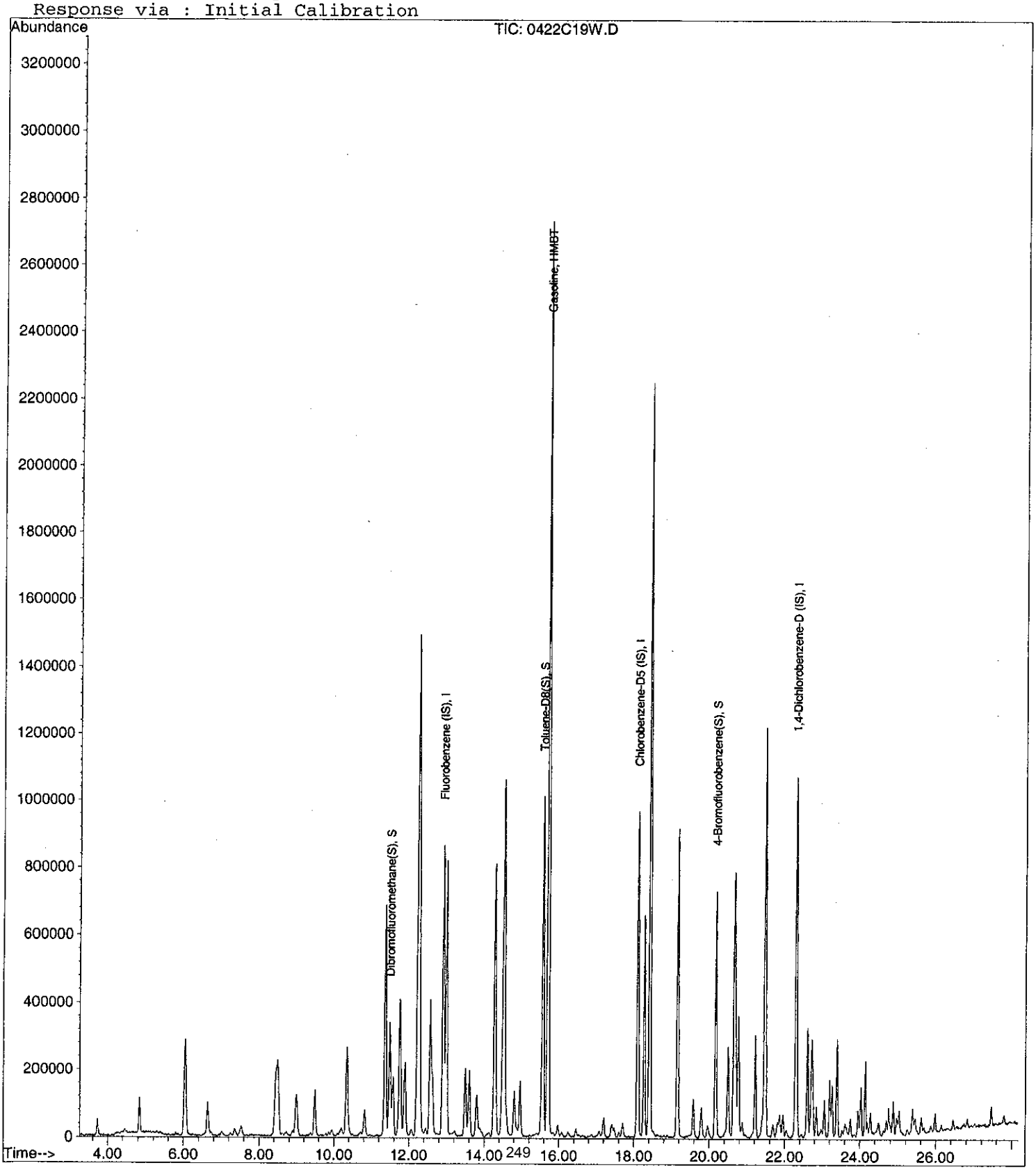
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	857506	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	966385	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1071041	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	1100423	23.11394 ppb	0.00
Spiked Amount 23.521			Recovery =	98.270%	
5) Toluene-D8(S)	15.56	TIC	3209042	26.25990 ppb	0.00
Spiked Amount 26.002			Recovery =	100.992%	
6) 4-Bromofluorobenzene(S)	20.16	TIC	2064699	25.39765 ppb	0.00
Spiked Amount 26.339			Recovery =	96.427%	
Target Compounds					Qvalue
2) Gasoline	15.70	TIC	70886684m	237.88524 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C19W.D Vial: 1
Acq On : 23 Apr 11 3:58 Operator: RS
Sample : Vol Std 4-22-11@800ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C20W.D Vial: 1
Acq On : 23 Apr 11 4:33 Operator: RS
Sample : Vol Std 4-22-11@1000ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	900499	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	1012189	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1201637	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.49	TIC	1142245	22.84692	ppb	0.00
Spiked Amount 23.521			Recovery =	97.134%		
5) Toluene-D8(S)	15.56	TIC	3421410	26.73076	ppb	0.00
Spiked Amount 26.002			Recovery =	102.804%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	2128808	25.00126	ppb	0.00
Spiked Amount 26.339			Recovery =	94.920%		
Target Compounds						Qvalue
2) Gasoline	15.70	TIC	84574991m	270.27056	ppb	100

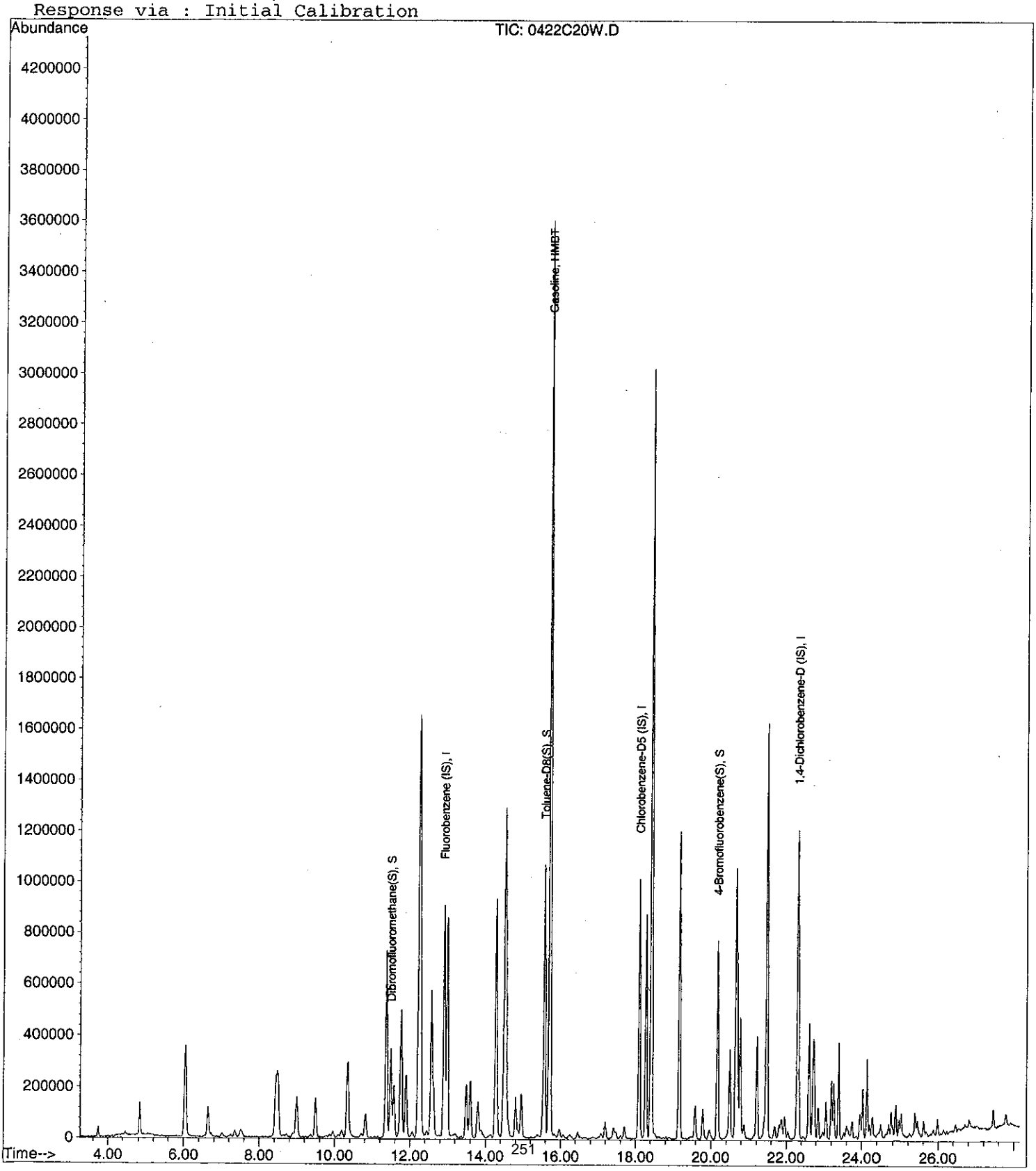
(#) = qualifier out of range (m) = manual integration
0422C20W.D GAS.M Mon May 16 19:47:13 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C20W.D Vial: 1
Acq On : 23 Apr 11 4:33 Operator: RS
Sample : Vol Std 4-22-11@1000ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: Comm
Date Analyzed: 04/23/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0422C22W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	HMBT	Gasoline	8.625	3.470	60	HMBTL	6.9
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
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40							
		Average			60.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C22W.D Vial: 1
Acq On : 23 Apr 11 5:42 Operator: RS
Sample : GAS 300 ug/L STD(SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:48 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

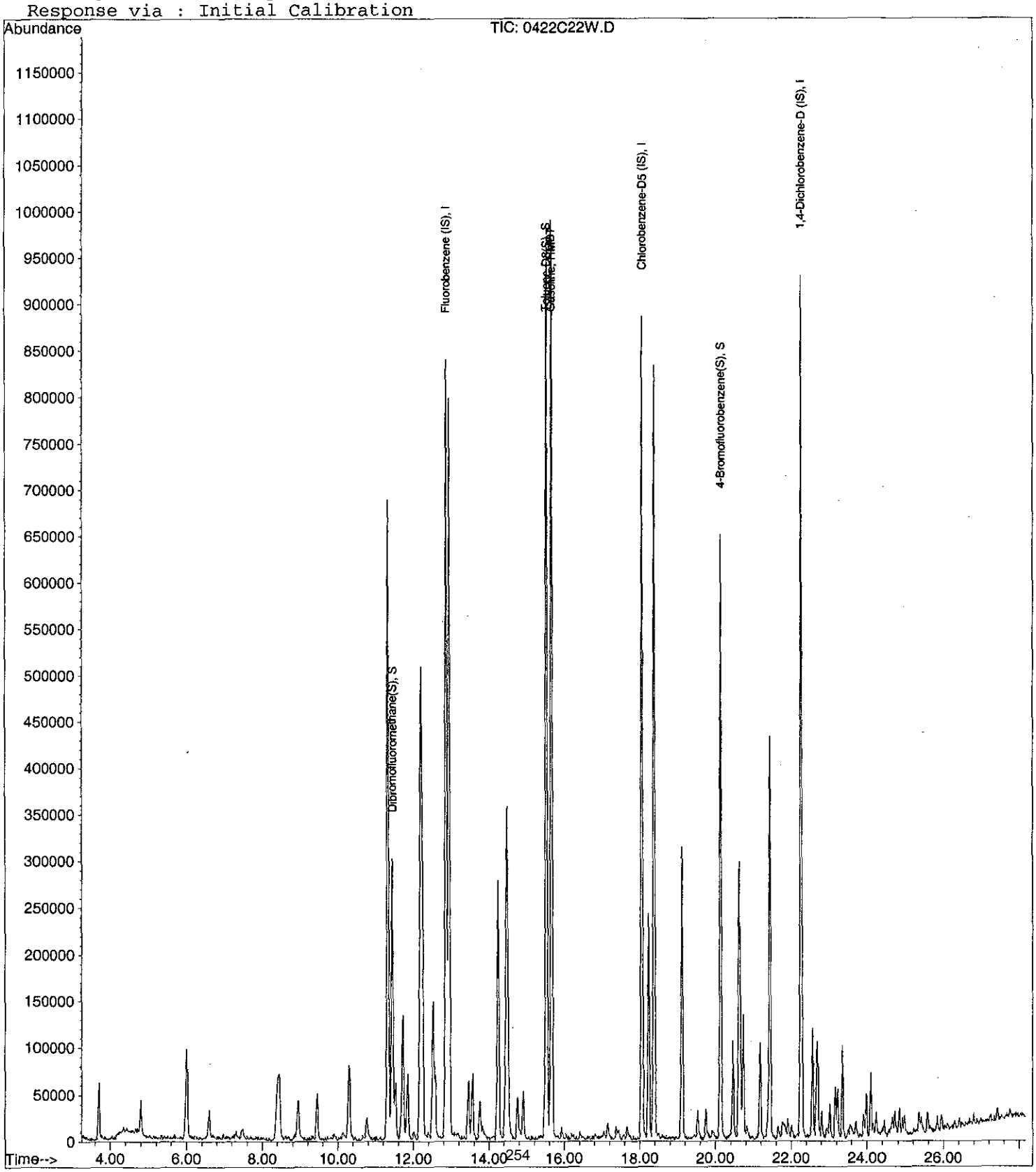
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.87	TIC	836807	25.00000	ppb	-0.03
4) Chlorobenzene-D5 (IS)	18.07	TIC	884518	25.00000	ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	926523	25.00000	ppb	-0.02
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.45	TIC	805863	17.34553	ppb	-0.03
Spiked Amount 23.521			Recovery =	73.747%		
5) Toluene-D8(S)	15.53	TIC	2907375	25.99334	ppb	-0.03
Spiked Amount 26.002			Recovery =	99.965%		
6) 4-Bromofluorobenzene(S)	20.14	TIC	1784990	23.98922	ppb	-0.03
Spiked Amount 26.339			Recovery =	91.078%		
Target Compounds						Qvalue
2) Gasoline	15.66	TIC	34844648m	279.26444	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C22W.D Vial: 1
Acq On : 23 Apr 11 5:42 Operator: RS
Sample : GAS 300 ug/L STD(SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:48 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 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: 64454
Date Analyzed: 04/25/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0425C01W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	HMBT	Gasoline	8.625	3.853	55	HMBTL	14
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
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		Average			55.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C01W.D Vial: 1
Acq On : 25 Apr 11 10:41 Operator: RS
Sample : GAS 300 ug/L STD Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:51 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.86	TIC	976520	25.00000 ppb	-0.04
4) Chlorobenzene-D5 (IS)	18.07	TIC	1068714	25.00000 ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1150561	25.00000 ppb	-0.02
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.45	TIC	1232935	22.74105 ppb	-0.03
Spiked Amount 23.521			Recovery =	96.684%	
5) Toluene-D8(S)	15.53	TIC	3561736	26.35530 ppb	-0.03
Spiked Amount 26.002			Recovery =	101.358%	
6) 4-Bromofluorobenzene(S)	20.14	TIC	2220439	24.69814 ppb	-0.03
Spiked Amount 26.339			Recovery =	93.770%	
Target Compounds					Qvalue
2) Gasoline	15.66	TIC	45150273m	341.95262 ppb	100

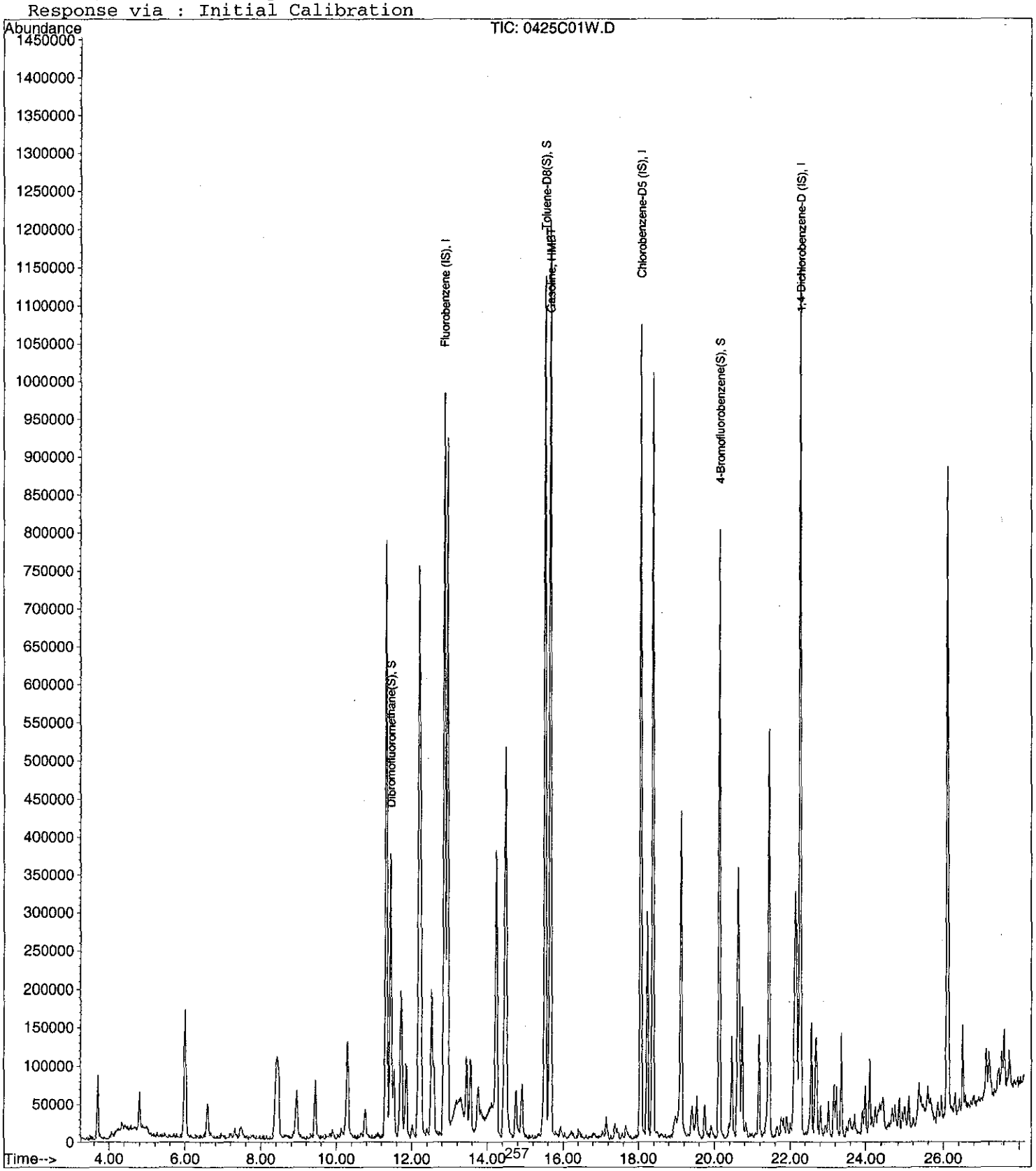
(#) = qualifier out of range (m) = manual integration
0425C01W.D GAS.M Mon May 16 19:51:40 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C01W.D Vial: 1
Acq On : 25 Apr 11 10:41 Operator: RS
Sample : GAS 300 ug/L STD Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:51 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 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: 64484
Date Analyzed: 04/26/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0426C01W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	HMBT	Gasoline	8.625	3.881	55	HMBTL	16
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
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		Average			55.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0426C01W.D Vial: 1
Acq On : 26 Apr 11 11:00 Operator: RS
Sample : GAS 300 ug/L STD Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:56 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	TIC	844207	25.00000 ppb	-0.03
4) Chlorobenzene-D5 (IS)	18.07	TIC	906826	25.00000 ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.27	TIC	957534	25.00000 ppb	-0.02
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.45	TIC	1241742	26.49317 ppb	-0.03
Spiked Amount 23.521				Recovery = 112.636%	
5) Toluene-D8(S)	15.54	TIC	2993227	26.10258 ppb	-0.03
Spiked Amount 26.002				Recovery = 100.388%	
6) 4-Bromofluorobenzene(S)	20.14	TIC	1941749	25.45400 ppb	-0.03
Spiked Amount 26.339				Recovery = 96.640%	
Target Compounds					Qvalue
2) Gasoline	15.67	TIC	39317225m	346.55035 ppb	100

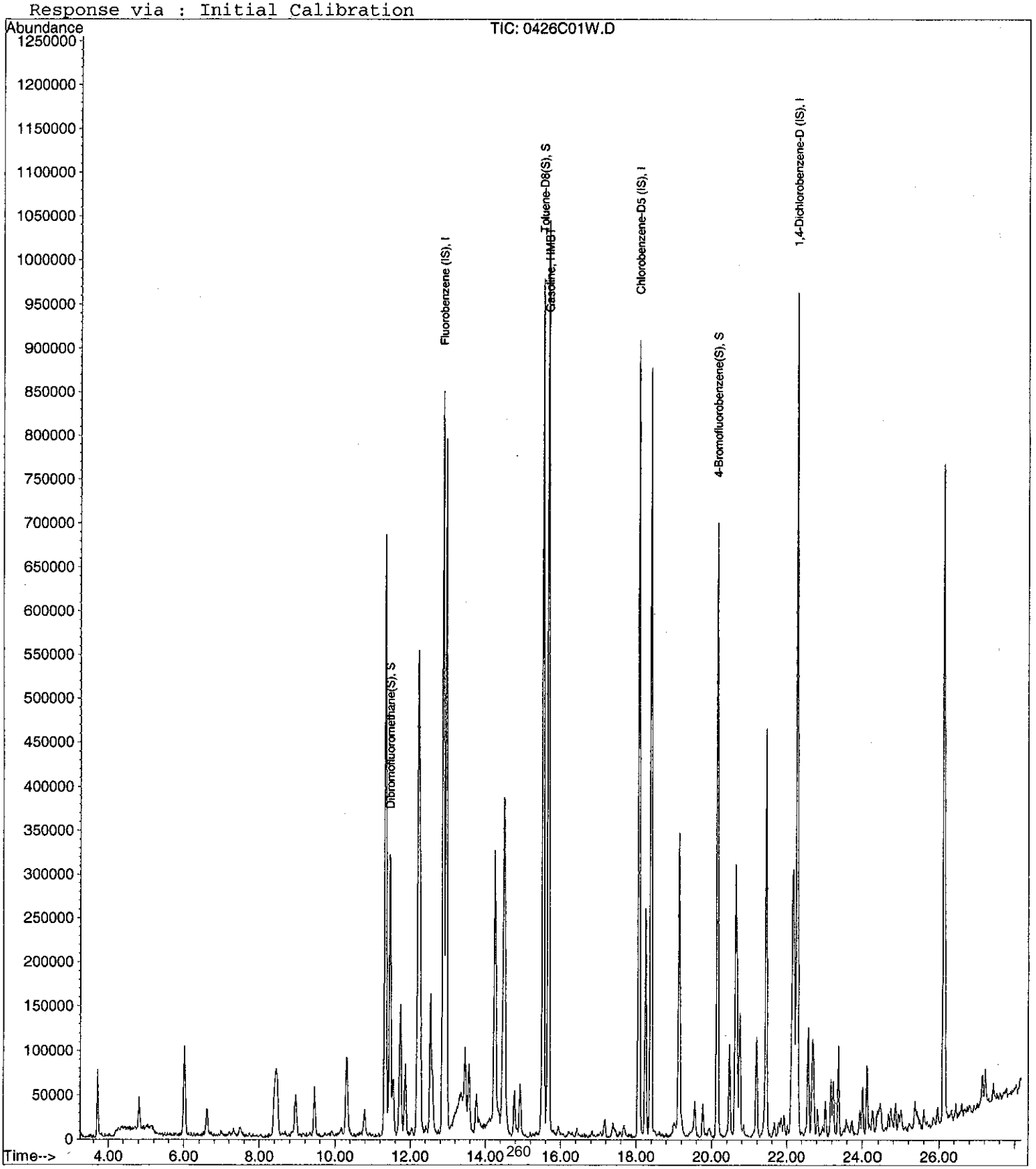
(#) = qualifier out of range (m) = manual integration
0426C01W.D GAS.M Mon May 16 20:04:47 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0426C01W.D Vial: 1
Acq On : 26 Apr 11 11:00 Operator: RS
Sample : GAS 300 ug/L STD Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:56 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 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: **110425W-36384 - 155157**
Batch ID: #86RHB-110425AC

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	04/25/11	04/25/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/25/11	04/25/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/25/11	04/25/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	04/25/11	04/25/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/25/11	04/25/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/25/11	04/25/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/25/11	04/25/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/25/11	04/25/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/25/11	04/25/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/25/11	04/25/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/25/11	04/25/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/25/11	04/25/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/25/11	04/25/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/25/11	04/25/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/25/11	04/25/11
BLANK	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/25/11	04/25/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/25/11	04/25/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11

Quant Method:C86DODW.M
Run #:0425C06
Instrument:Chico
Sequence:C110422
Initials:LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:26:31 PM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **110425W-36384 - 155157**
Batch ID: #86RHB-110425AC

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	04/25/11	04/25/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	04/25/11	04/25/11
BLANK	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/25/11	04/25/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/25/11	04/25/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/25/11	04/25/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/25/11	04/25/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/25/11	04/25/11
BLANK	SURROGATE: 1,2-DICHLOROET	99.4	70-120			%	04/25/11	04/25/11
BLANK	SURROGATE: 4-BROMOFLUORO	98.7	75-120			%	04/25/11	04/25/11
BLANK	SURROGATE: DIBROMOFLUOR	95.8	85-115			%	04/25/11	04/25/11
BLANK	SURROGATE: TOLUENE-D8 (S)	88.5	85-120			%	04/25/11	04/25/11

Quant Method: C86DODW.M
Run #: 0425C06
Instrument: Chico
Sequence: C110422
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:26:31 PM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C06W.D Vial: 1
Acq On : 25 Apr 11 14:13 Operator: RS
Sample : 110425A BLK-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:40 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	96	425408	25.00000 ppb	-0.02
35) Chlorobenzene-D5 (IS)	18.07	117	327424	25.00000 ppb	-0.03
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	192768	25.00000 ppb	-0.03
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.47	111	306110	22.53309 ppb	-0.02
Spiked Amount 23.521			Recovery =	95.802%	
23) 1,2-DCA-D4(S)	12.28	65	192193	22.18529 ppb	-0.02
Spiked Amount 22.321			Recovery =	99.392%	
36) Toluene-D8(S)	15.55	98	1071142	23.00006 ppb	-0.02
Spiked Amount 26.002			Recovery =	88.455%	
44) 4-Bromofluorobenzene(S)	20.14	95	399410	25.98711 ppb	-0.03
Spiked Amount 26.339			Recovery =	98.665%	

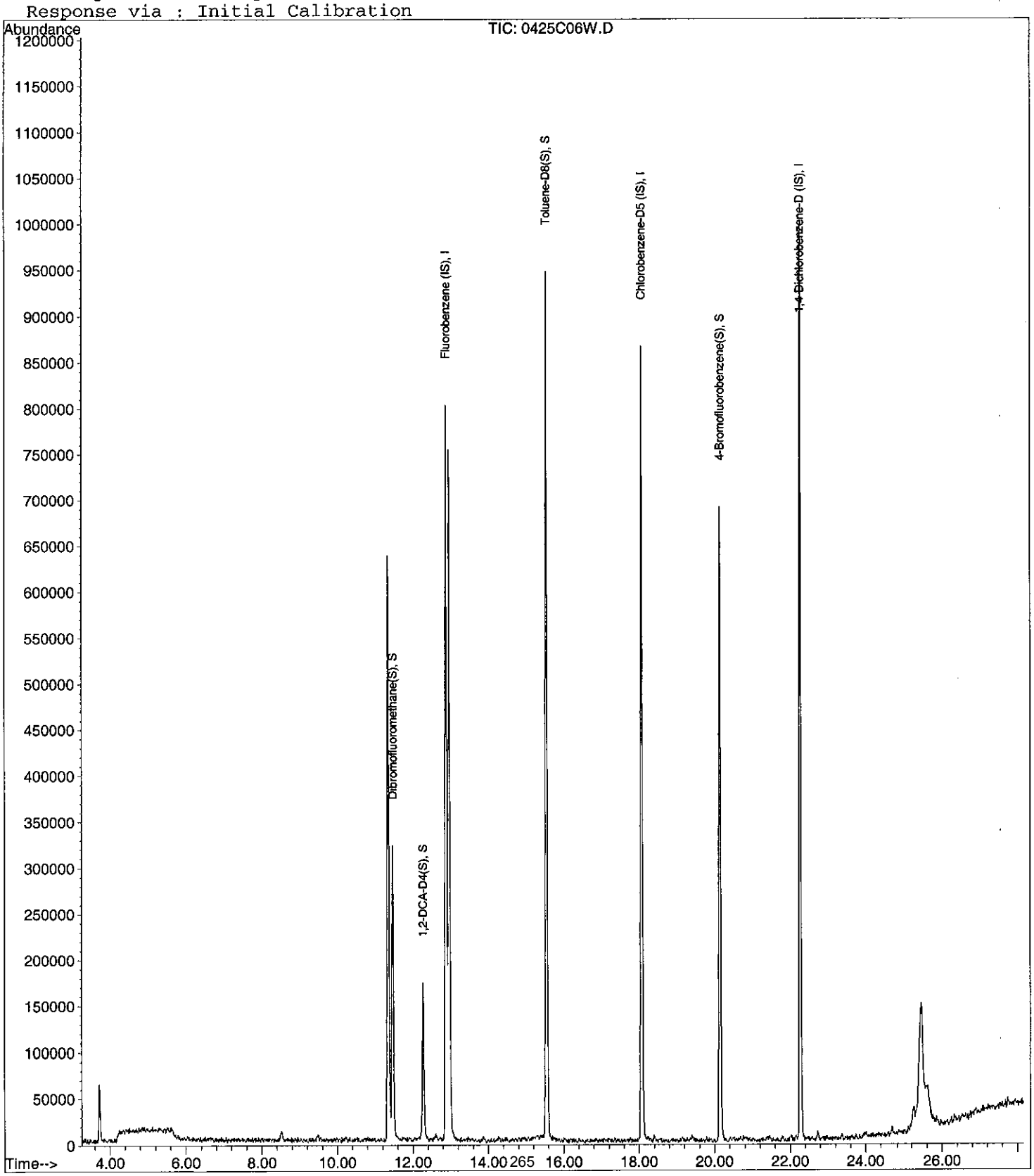
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C06W.D Vial: 1
Acq On : 25 Apr 11 14:13 Operator: RS
Sample : 110425A BLK-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:40 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C06W.D Vial: 1
Acq On : 25 Apr 11 14:13 Operator: RS
Sample : 110425A BLK-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:03 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	797841	25.00000 ppb	-0.02
4) Chlorobenzene-D5 (IS)	18.07	TIC	864500	25.00000 ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.27	TIC	998923	25.00000 ppb	-0.02
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.47	TIC	1038276	23.43948 ppb	0.00
Spiked Amount 23.521			Recovery =	99.651%	
5) Toluene-D8(S)	15.55	TIC	2797219	25.58758 ppb	-0.02
Spiked Amount 26.002			Recovery =	98.408%	
6) 4-Bromofluorobenzene(S)	20.15	TIC	1997288	27.46393 ppb	-0.02
Spiked Amount 26.339			Recovery =	104.271%	

Target Compounds Qvalue

Quantitation Report

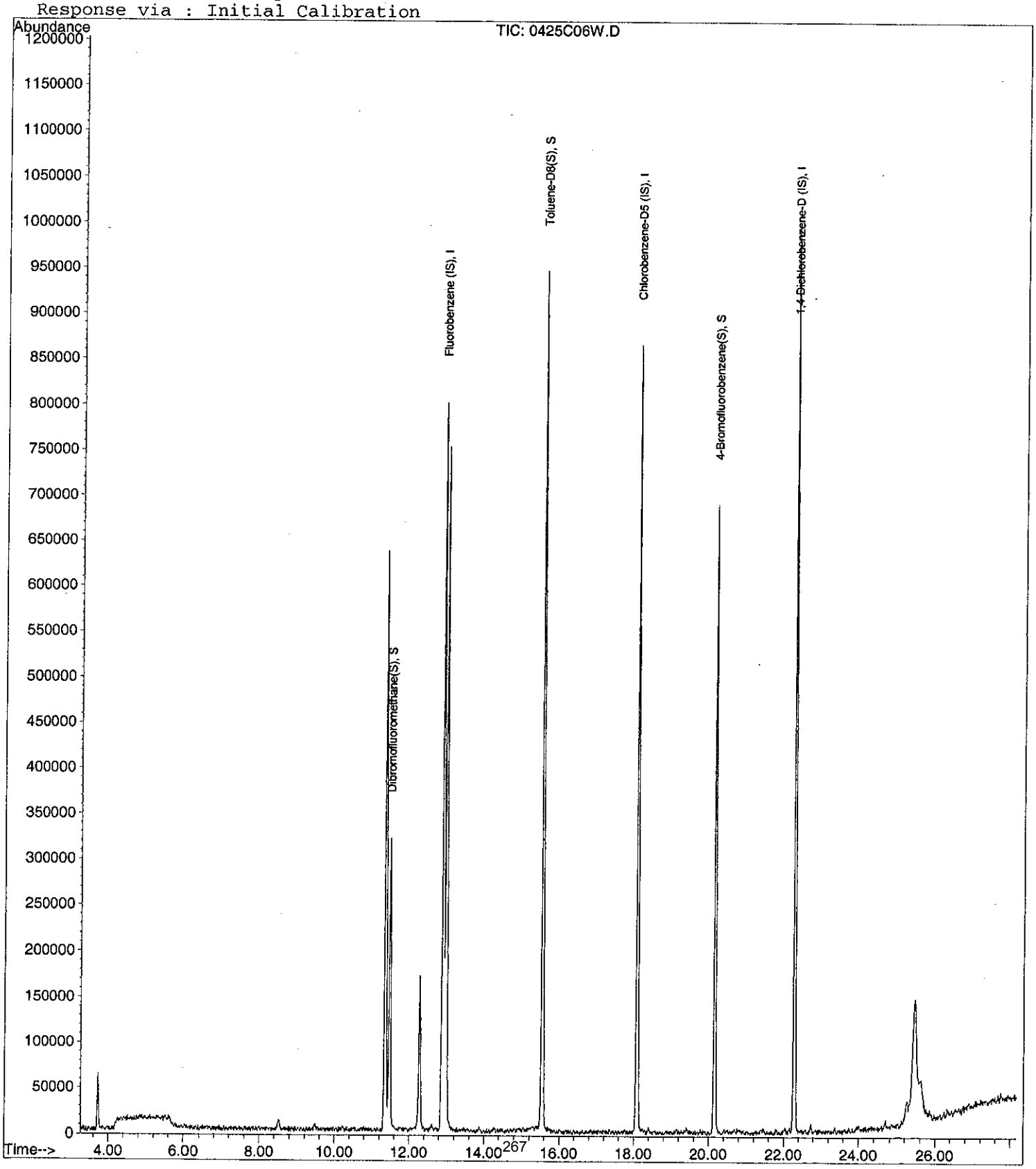
Data File : M:\CHICO\DATA\C110422\0425C06W.D
Acq On : 25 Apr 11 14:13
Sample : 110425A BLK-1WC
Misc : Water 10ml w/IS&S: 04-12-11

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

Quant Time: May 16 20:03 2011

Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36384 LCS - 155157**
Batch ID: #86RHB-110425AC

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	9.93	99.3	80-130
1,1,1-TRICHLOROETHANE	10.00	9.93	99.3	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	9.89	98.9	65-130
1,1,2-TRICHLOROETHANE	10.00	9.41	94.1	75-125
1,1-DICHLOROETHANE	10.00	10.3	103	70-135
1,1-DICHLOROETHENE	10.00	10.5	105	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.15	91.5	75-125
1,2,4-TRICHLOROBENZENE	10.00	8.99	89.9	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	9.37	93.7	50-130
1,2-DIBROMOETHANE	10.00	9.56	95.6	70-130
1,2-DICHLOROBENZENE	10.00	9.86	98.6	70-120
1,2-DICHLOROETHANE	10.00	9.16	91.6	70-130
1,2-DICHLOROPROPANE	10.00	9.43	94.3	75-125
1,3-DICHLOROBENZENE	10.00	9.73	97.3	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	18.2	91.0	70-130
1,4-DICHLOROBENZENE	10.00	9.73	97.3	75-125
2-BUTANONE	10.00	8.65	86.5	30-150
4-METHYL-2-PENTANONE	10.00	9.68	96.8	60-135
ACETONE	10.00	9.89	98.9	40-140
BENZENE	10.00	10.4	104	80-120
BROMODICHLOROMETHANE	10.00	9.07	90.7	75-120
BROMOFORM	10.00	9.29	92.9	70-130
BROMOMETHANE	10.00	9.36	93.6	30-145
CARBON TETRACHLORIDE	10.00	10.0	100	65-140
CHLOROBENZENE	10.00	10.5	105	80-120
CHLORODIBROMOMETHANE	10.00	9.16	91.6	60-135

Comments:

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	04/25/11
Analysis Date :	04/25/11
Instrument :	Chico
Run :	0425C02
Initials :	LF

Printed: 05/16/11 8:26:32 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36384 LCS - 155157**
Batch ID: #86RHB-110425AC

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	11.2	112	60-135
CHLOROFORM	10.00	9.79	97.9	65-135
CHLOROMETHANE	10.00	10.8	108	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.2	102	70-125
ETHYLBENZENE	10.00	10.7	107	75-125
GASOLINE	300	342	114	75-125
HEXACHLOROBUTADIENE	10.00	9.35	93.5	50-140
METHYL TERT-BUTYL ETHER	10.00	9.04	90.4	65-125
METHYLENE CHLORIDE	10.00	10.1	101	55-140
STYRENE	10.00	9.73	97.3	65-135
TETRACHLOROETHENE	10.00	10.8	108	45-150
TOLUENE	10.00	10.4	104	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.4	104	60-140
TRICHLOROETHENE	10.00	9.83	98.3	70-125
VINYL CHLORIDE	10.00	9.32	93.2	50-145
XYLENES (TOTAL)	30.0	32.2	107	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	18.9	84.7	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.3	25.1	95.3	75-120
SURROGATE: DIBROMOFLUOROMETH	23.5	20.4	86.7	85-115
SURROGATE: TOLUENE-D8 (S)	26.0	24.4	93.8	85-120

Comments:

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	04/25/11
Analysis Date :	04/25/11
Instrument :	Chico
Run :	0425C02
Initials :	LF

Printed: 05/16/11 8:26:32 PM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C02W.D Vial: 1
Acq On : 25 Apr 11 11:17 Operator: RS
Sample : 110425A LCS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:38 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 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	540425	25.00000 ppb		-0.03
35) Chlorobenzene-D5 (IS)	18.07	117	386816	25.00000 ppb		-0.03
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	216064	25.00000 ppb		-0.03
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.45	111	352664	20.43500 ppb		-0.04
Spiked Amount 23.521			Recovery = 86.882%			
23) 1,2-DCA-D4(S)	12.26	65	208392	18.93559 ppb		-0.04
Spiked Amount 22.321			Recovery = 84.836%			
36) Toluene-D8(S)	15.54	98	1343459	24.41813 ppb		-0.03
Spiked Amount 26.002			Recovery = 93.909%			
44) 4-Bromofluorobenzene(S)	20.14	95	456844	25.11776 ppb		-0.03
Spiked Amount 26.339			Recovery = 95.366%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.11	85	205770	11.46215 ppb		94
3) Chloromethane	4.58	50	181555	10.83640 ppb		97
4) Vinyl chloride	4.85	62	44560	9.32041 ppb		97
5) Bromomethane	5.77	94	41547	9.36045 ppb		90
6) Chloroethane	5.96	64	123777	11.20294 ppb		93
7) Trichlorofluoromethane	6.56	101	248064	10.92554 ppb		98
8) Acetone	7.31	43	10792	9.88570 ppb	#	83
9) 1,1-DCE	7.71	96	111904	10.52404 ppb		90
10) Methylene chloride	8.51	84	107719	10.08457 ppb		99
11) Carbon disulfide	8.60	76	535881	12.24944 ppb		97
12) Methyl t-butyl ether (MtBE	8.93	73	162976	9.03918 ppb		97
13) Trans-1,2-DCE	9.13	96	123483	10.37617 ppb		97
14) 1,1-DCA	9.83	63	225845	10.25350 ppb		99
15) MEK (2-Butanone)	10.48	43	36257	8.65178 ppb		97
16) Cis-1,2-DCE	10.85	96	159894	10.16487 ppb		91
17) 2,2-Dichloropropane	10.84	77	211892	10.40775 ppb		100
18) Chloroform	11.12	83	231899	9.78528 ppb		99
19) Bromochloromethane	11.35	128	53031	10.06560 ppb		97
21) 1,1,1-TCA	11.87	97	228464	9.93121 ppb		94
22) 1,1-Dichloropropene	12.14	75	160994	10.72671 ppb		94
24) Carbon Tetrachloride	12.33	117	202571	10.04155 ppb		96
25) 1,2-DCA	12.41	62	91030	9.16210 ppb		97
26) Benzene	12.54	78	479103	10.43308 ppb		98
27) TCE	13.57	95	148446	9.82851 ppb		91
28) 1,2-Dichloropropane	13.79	63	106253	9.42752 ppb		99
29) Bromodichloromethane	14.14	83	144637	9.06802 ppb		99
30) Dibromomethane	14.20	93	49232	9.03892 ppb		78
31) Cis-1,3-Dichloropropene	15.04	75	150985	9.44851 ppb		95
32) Toluene	15.67	92	351016	10.38704 ppb		98
33) Trans-1,3-Dichloropropene	15.83	75	104951	8.79177 ppb		97
34) 1,1,2-TCA	16.11	83	50923	9.41365 ppb		97
37) 1,2-EDB	17.35	107	65127	9.56103 ppb	#	94
38) Tetrachloroethene	16.82	164	146734	10.80164 ppb		96
39) 1-Chlorohexane	17.73	91	250628	11.70063 ppb		91
40) 1,1,1,2-Tetrachloroethane	18.19	131	138315	9.93271 ppb		97
41) m&p-Xylene	18.38	106	575357	21.29787 ppb		94
42) o-Xylene	19.12	106	290188	10.89600 ppb		97
43) Styrene	19.14	78	191367	9.73351 ppb		91
45) 2-Hexanone	16.13	43	19384	9.69836 ppb	#	75

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C02W.D Vial: 1
Acq On : 25 Apr 11 11:17 Operator: RS
Sample : 110425A LCS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:38 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.52	76	108419	9.88481	ppb		97
47)	Dibromochloromethane	17.00	129	98046	9.16352	ppb		80
48)	Chlorobenzene	18.13	112	409041	10.45759	ppb		96
49)	Ethylbenzene	18.24	91	702253	10.65047	ppb		97
50)	Bromoform	19.67	173	58697	9.28598	ppb		97
52)	MIBK (methyl isobutyl keto	14.69	43	34747	9.68070	ppb		84
53)	Isopropylbenzene	19.76	105	798075	10.79031	ppb		99
54)	1,1,2,2-Tetrachloroethane	19.93	83	60016	9.88544	ppb		89
55)	1,2,3-Trichloropropane	20.18	110	17416	9.15362	ppb	#	68
56)	Bromobenzene	20.50	156	168512	9.50520	ppb		96
57)	n-Propylbenzene	20.47	91	887278	10.68702	ppb		97
58)	2-Chlorotoluene	20.76	91	562481	10.22182	ppb		99
59)	1,3,5-Trimethylbenzene	20.74	105	605527	10.40982	ppb		96
60)	4-Chlorotoluene	20.84	91	450696	9.46601	ppb		96
61)	Tert-Butylbenzene	21.38	119	682261	10.68932	ppb		97
62)	1,2,4-Trimethylbenzene	21.44	105	623832	10.62265	ppb		98
63)	Sec-Butylbenzene	21.77	105	880265	10.70617	ppb		97
64)	p-Isopropyltoluene	22.02	119	739955	10.84032	ppb		96
65)	1,3-DCB	22.15	146	353278	9.72853	ppb		99
66)	1,4-DCB	22.32	146	321125	9.73254	ppb		96
67)	n-Butylbenzene	22.72	91	608854	10.63370	ppb		99
68)	1,2-DCB	22.95	146	286526	9.86192	ppb		97
69)	1,2-Dibromo-3-chloropropan	24.16	157	15128	9.36734	ppb		88
70)	1,2,4-Trichlorobenzene	25.61	180	91040	8.99066	ppb		99
71)	Hexachlorobutadiene	25.86	223	46504	9.34570	ppb		90
72)	Naphthalene	25.95	128	99032	9.22453	ppb		99
73)	1,2,3-Trichlorobenzene	26.31	180	172815	8.56733	ppb		96

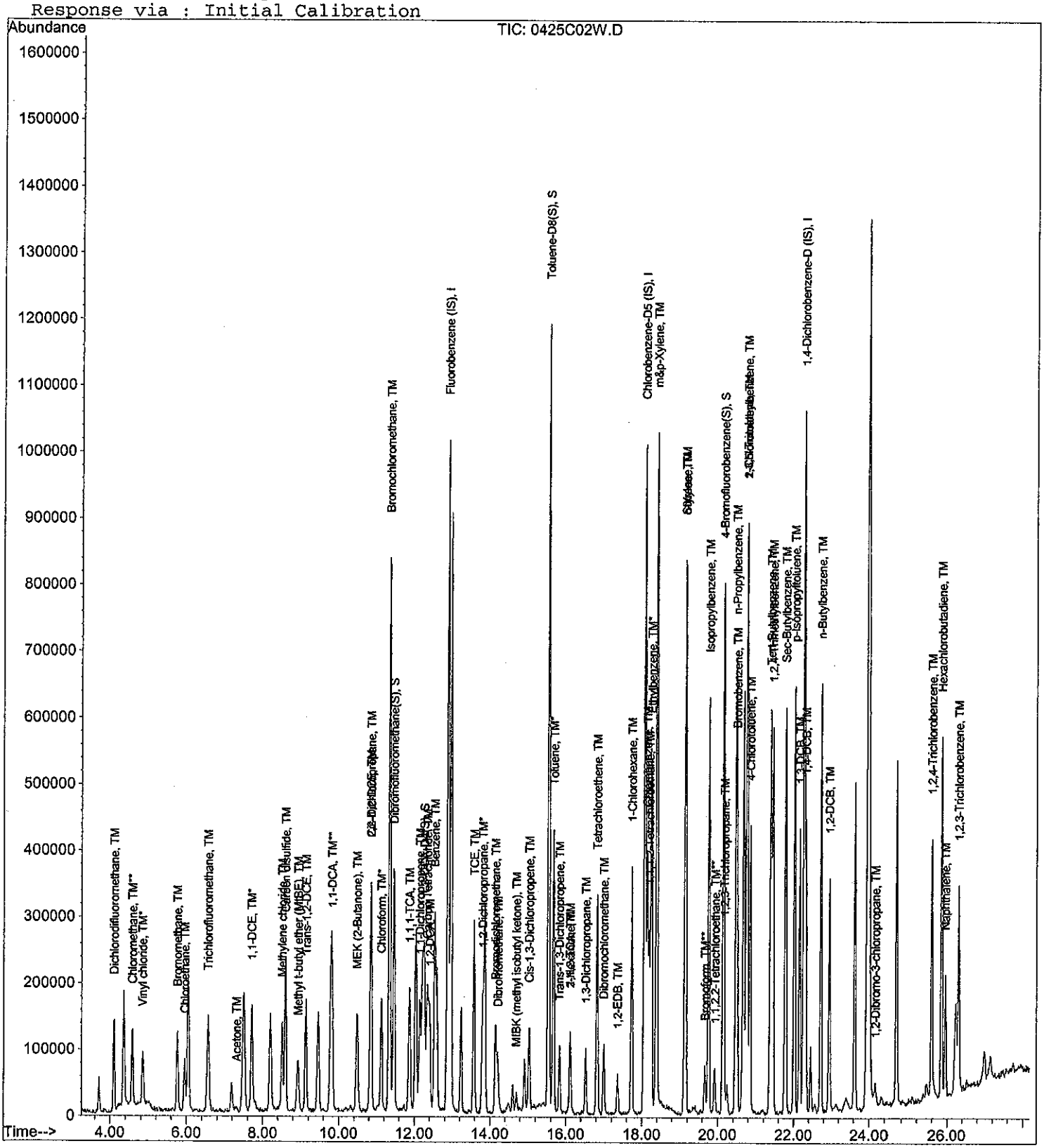
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C02W.D Vial: 1
Acq On : 25 Apr 11 11:17 Operator: RS
Sample : 110425A LCS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:38 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C01W.D Vial: 1
Acq On : 25 Apr 11 10:41 Operator: RS
Sample : GAS 300 ug/L STD Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:51 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.86	TIC	976520	25.00000 ppb	-0.04
4) Chlorobenzene-D5 (IS)	18.07	TIC	1068714	25.00000 ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1150561	25.00000 ppb	-0.02
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.45	TIC	1232935	22.74105 ppb	-0.03
Spiked Amount 23.521			Recovery =	96.684%	
5) Toluene-D8(S)	15.53	TIC	3561736	26.35530 ppb	-0.03
Spiked Amount 26.002			Recovery =	101.358%	
6) 4-Bromofluorobenzene(S)	20.14	TIC	2220439	24.69814 ppb	-0.03
Spiked Amount 26.339			Recovery =	93.770%	
Target Compounds					Qvalue
2) Gasoline	15.66	TIC	45150273m	341.95262 ppb	100

(#) = qualifier out of range (m) = manual integration
0425C01W.D GAS.M Mon May 16 19:51:40 2011 Page 1

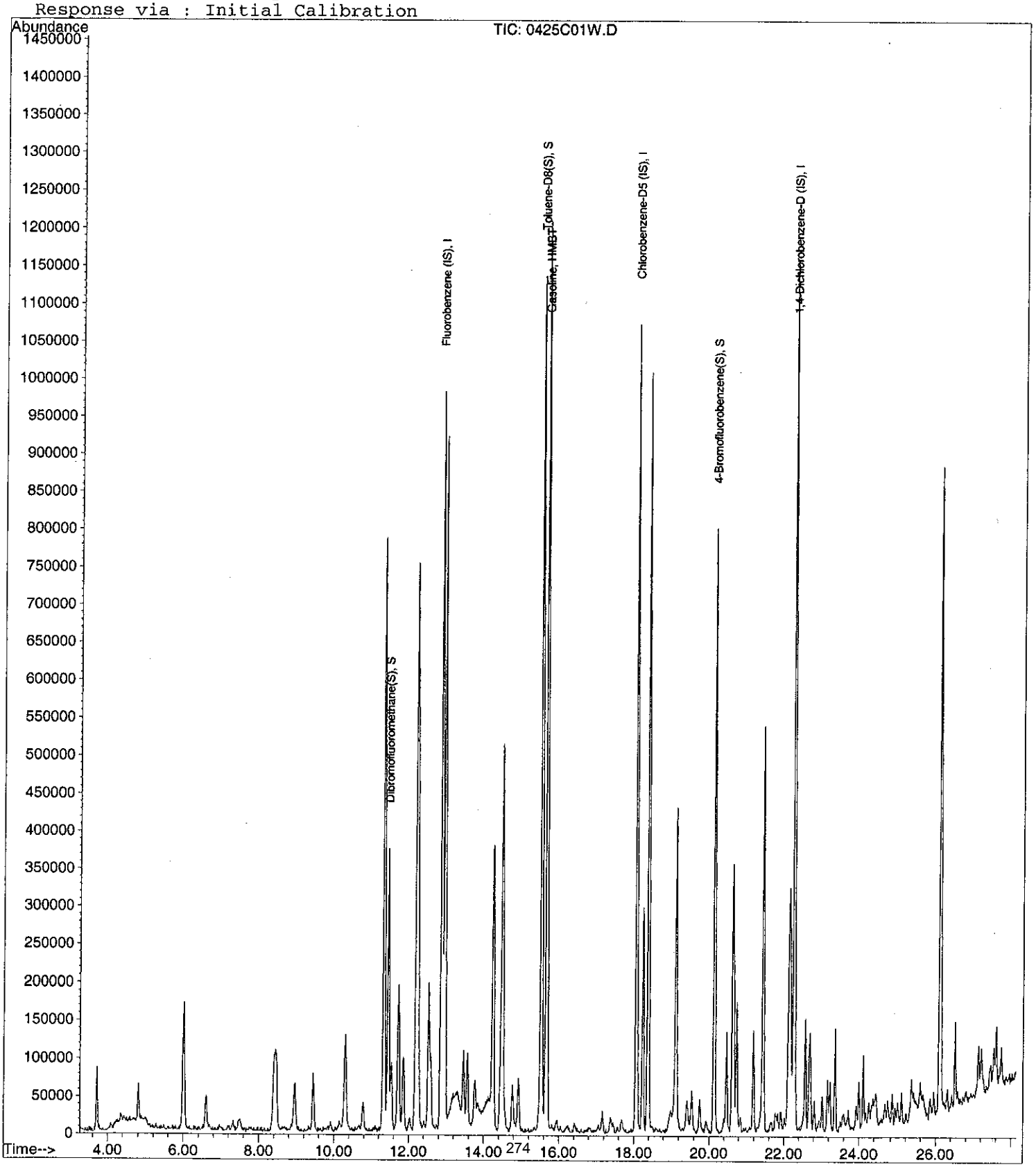
Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C01W.D
Acq On : 25 Apr 11 10:41
Sample : GAS 300 ug/L STD
Misc : Water 10ml w/IS&S: 04-12-11

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

Quant Time: May 16 19:51 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36384 MS - 155157**
Batch ID: #86RHB-110425AC
Sample ID: AY36384
Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,1,1,2-TETRACHLOROETHANE	10.00	ND	10.1	9.15	101	91.5	80-130	9.9	30
1,1,1-TRICHLOROETHANE	10.00	ND	9.17	9.07	91.7	90.7	65-130	1.1	30
1,1,2,2-TETRACHLOROETHANE	10.00	ND	3.29	2.46	32.9 #	24.6 #	65-130	28.9	30
1,1,2-TRICHLOROETHANE	10.00	ND	10.3	10.2	103	102	75-125	0.98	30
1,1-DICHLOROETHANE	10.00	ND	9.77	9.69	97.7	96.9	70-135	0.82	30
1,1-DICHLOROETHENE	10.00	ND	9.78	9.57	97.8	95.7	70-130	2.2	30
1,2,3-TRICHLOROPROPANE	10.00	ND	8.92	10.4	89.2	104	75-125	15.3	30
1,2,4-TRICHLOROBENZENE	10.00	ND	8.75	9.35	87.5	93.5	65-135	6.6	30
1,2-DIBROMO-3-CHLOROPROPANE	10.00	ND	8.98	9.30	89.8	93.0	50-130	3.5	30
1,2-DIBROMOETHANE	10.00	ND	9.45	9.48	94.5	94.8	70-130	0.32	30
1,2-DICHLOROBENZENE	10.00	ND	9.16	9.58	91.6	95.8	70-120	4.5	30
1,2-DICHLOROETHANE	10.00	ND	9.30	9.05	93.0	90.5	70-130	2.7	30
1,2-DICHLOROPROPANE	10.00	ND	9.53	9.63	95.3	96.3	75-125	1.0	30
1,3-DICHLOROBENZENE	10.00	ND	9.14	9.24	91.4	92.4	75-125	1.1	30
1,3-DICHLOROPROPENE, TOTAL	20.0	ND	18.6	19.2	93.0	96.0	70-130	3.2	30
1,4-DICHLOROBENZENE	10.00	ND	9.47	9.38	94.7	93.8	75-125	0.95	30
2-BUTANONE	10.00	ND	9.08	10.0	90.8	100	30-150	9.6	30
4-METHYL-2-PENTANONE	10.00	ND	9.47	9.27	94.7	92.7	60-135	2.1	30
ACETONE	10.00	ND	13.9	16.6	139	166 #	40-140	17.7	30
BENZENE	10.00	ND	10.0	9.99	100	99.9	80-120	0.10	30
BROMODICHLOROMETHANE	10.00	ND	9.18	9.59	91.8	95.9	75-120	4.4	30
BROMOFORM	10.00	ND	9.78	9.50	97.8	95.0	70-130	2.9	30
BROMOMETHANE	10.00	ND	9.29	8.86	92.9	88.6	30-145	4.7	30
CARBON TETRACHLORIDE	10.00	ND	9.16	9.16	91.6	91.6	65-140	0.0	30
CHLOROBENZENE	10.00	ND	9.99	9.31	99.9	93.1	80-120	7.0	30

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	C86DODW.M	C86DODW.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	04/25/11	04/25/11
Instrument :	Chico	Chico
Run :	0425C16	0425C17
Initials :	LF	

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APPL MSD SCII

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36384 MS - 155157**
Batch ID: #86RHB-110425AC
Sample ID: AY36384
Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
CHLORODIBROMOMETHANE	10.00	ND	9.62	9.40	96.2	94.0	60-135	2.3	30
CHLOROETHANE	10.00	ND	9.89	9.75	98.9	97.5	60-135	1.4	30
CHLOROFORM	10.00	ND	9.48	9.48	94.8	94.8	65-135	0.0	30
CHLOROMETHANE	10.00	ND	9.78	9.93	97.8	99.3	40-125	1.5	30
CIS-1,2-DICHLOROETHENE	10.00	ND	9.65	9.58	96.5	95.8	70-125	0.73	30
ETHYLBENZENE	10.00	ND	9.86	9.25	98.6	92.5	75-125	6.4	30
GASOLINE	300	ND	305	305	102	102	75-125	0.0	30
HEXACHLOROBUTADIENE	10.00	ND	8.09	7.56	80.9	75.6	50-140	6.8	30
METHYL TERT-BUTYL ETHER	10.00	ND	9.80	10.1	98.0	101	65-125	3.0	30
METHYLENE CHLORIDE	10.00	ND	9.78	9.91	97.8	99.1	55-140	1.3	30
STYRENE	10.00	ND	9.12	9.09	91.2	90.9	65-135	0.33	30
TETRACHLOROETHENE	10.00	ND	10.1	9.20	101	92.0	45-150	9.3	30
TOLUENE	10.00	0.21	9.65	9.94	94.4	97.3	75-120	3.0	30
TRANS-1,2-DICHLOROETHENE	10.00	ND	10.1	9.92	101	99.2	60-140	1.8	30
TRICHLOROETHENE	10.00	ND	16.0	16.4	160 #	164 #	70-125	2.5	30
VINYL CHLORIDE	10.00	ND	10.1	9.32	101	93.2	50-145	8.0	30
XYLENES (TOTAL)	30.0	0.39	30.0	28.3	98.7	93.0	80-120	5.8	30
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	NA	20.3	20.6	90.9	92.3	70-120		
SURROGATE: 4-BROMOFLUOROBENZE	26.3	NA	25.5	24.5	96.8	93.0	75-120		
SURROGATE: DIBROMOFLUOROMETH	23.5	NA	20.9	21.4	88.9	91.0	85-115		
SURROGATE: TOLUENE-D8 (S)	26.0	NA	24.0	22.7	92.3	87.3	85-120		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	C86DODW.M	C86DODW.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	04/25/11	04/25/11
Instrument :	Chico	Chico
Run :	0425C16	0425C17
Initials :	LF	

Printed: 05/16/11 8:26:34 PM
APPL MSD SCII

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C16W.D Vial: 1
Acq On : 25 Apr 11 20:06 Operator: RS
Sample : AY36384W234 MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 22:14 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.89	96	541504	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.08	117	392192	25.00000 ppb		-0.02
51) 1,4-Dichlorobenzene-D (IS)	22.28	152	221760	25.00000 ppb		-0.02
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.47	111	361469	20.90346 ppb		-0.02
Spiked Amount 23.521			Recovery = 88.871%			
23) 1,2-DCA-D4(S)	12.28	65	224390	20.34862 ppb		-0.02
Spiked Amount 22.321			Recovery = 91.167%			
36) Toluene-D8(S)	15.56	98	1337169	23.97066 ppb		0.00
Spiked Amount 26.002			Recovery = 92.190%			
44) 4-Bromofluorobenzene(S)	20.15	95	469099	25.45499 ppb		-0.02
Spiked Amount 26.339			Recovery = 96.646%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	194660	10.82167 ppb		100
3) Chloromethane	4.59	50	164131	9.77690 ppb		94
4) Vinyl chloride	4.87	62	48544	10.13349 ppb		97
5) Bromomethane	5.78	94	41303	9.28610 ppb		96
6) Chloroethane	5.97	64	109463	9.88765 ppb		97
7) Trichlorofluoromethane	6.58	101	234442	10.30501 ppb		97
8) Acetone	7.32	43	14352	13.89857 ppb	#	71
9) 1,1-DCE	7.73	96	104179	9.77802 ppb		87
10) Methylene chloride	8.52	84	105071	9.78436 ppb		97
11) Carbon disulfide	8.62	76	483687	11.03433 ppb		99
12) Methyl t-butyl ether (MtBE	8.95	73	177096	9.80275 ppb		97
13) Trans-1,2-DCE	9.15	96	119976	10.05105 ppb		96
14) 1,1-DCA	9.84	63	215526	9.76552 ppb		94
15) MEK (2-Butanone)	10.50	43	38121	9.07845 ppb	#	94
16) Cis-1,2-DCE	10.87	96	152076	9.64859 ppb		97
17) 2,2-Dichloropropane	10.86	77	191008	9.36327 ppb		91
18) Chloroform	11.14	83	225094	9.47921 ppb		94
19) Bromochloromethane	11.38	128	52025	9.85498 ppb		90
21) 1,1,1-TCA	11.89	97	211278	9.16584 ppb		98
22) 1,1-Dichloropropene	12.16	75	150652	10.01764 ppb		98
24) Carbon Tetrachloride	12.35	117	185155	9.15994 ppb		94
25) 1,2-DCA	12.43	62	92581	9.29964 ppb		99
26) Benzene	12.56	78	460871	10.01605 ppb		98
27) TCE	13.58	95	242843	16.04644 ppb		97
28) 1,2-Dichloropropane	13.81	63	107642	9.53173 ppb		98
29) Bromodichloromethane	14.17	83	146754	9.18241 ppb		93
30) Dibromomethane	14.22	93	50507	9.25453 ppb		95
31) Cis-1,3-Dichloropropene	15.05	75	152511	9.52499 ppb		93
32) Toluene	15.68	92	326829	9.65204 ppb		94
33) Trans-1,3-Dichloropropene	15.85	75	109128	9.12346 ppb		96
34) 1,1,2-TCA	16.13	83	55589	10.25574 ppb		87
37) 1,2-EDB	17.37	107	65274	9.45126 ppb		83
38) Tetrachloroethene	16.84	164	139476	10.12661 ppb		94
39) 1-Chlorohexane	17.75	91	214814	9.89118 ppb		92
40) 1,1,1,2-Tetrachloroethane	18.21	131	143088	10.13462 ppb		96
41) m&p-Xylene	18.40	106	549133	20.04851 ppb		95
42) o-Xylene	19.14	106	269474	9.97953 ppb		99
43) Styrene	19.16	78	181871	9.12371 ppb		86
45) 2-Hexanone	16.15	43	20671	10.20051 ppb		85

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C16W.D Vial: 1
Acq On : 25 Apr 11 20:06 Operator: RS
Sample : AY36384W234 MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 22:14 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.54	76	109376	9.83537	ppb		96
47)	Dibromochloromethane	17.02	129	104384	9.62214	ppb		87
48)	Chlorobenzene	18.15	112	396155	9.98931	ppb		96
49)	Ethylbenzene	18.26	91	658905	9.85607	ppb		99
50)	Bromoform	19.69	173	62667	9.77814	ppb		90
52)	MIBK (methyl isobutyl keto	14.72	43	34875	9.46680	ppb		91
53)	Isopropylbenzene	19.78	105	716541	9.43909	ppb		100
54)	1,1,2,2-Tetrachloroethane	19.94	83	20478	3.28637	ppb		100
55)	1,2,3-Trichloropropane	20.20	110	17415	8.91799	ppb		86
56)	Bromobenzene	20.52	156	165951	9.12030	ppb		95
57)	n-Propylbenzene	20.49	91	805978	9.45844	ppb		98
58)	2-Chlorotoluene	20.78	91	500914	8.86917	ppb		91
59)	1,3,5-Trimethylbenzene	20.76	105	543813	9.10875	ppb		95
60)	4-Chlorotoluene	20.86	91	446234	9.13156	ppb		99
61)	Tert-Butylbenzene	21.40	119	622716	9.50580	ppb		99
62)	1,2,4-Trimethylbenzene	21.46	105	570903	9.47167	ppb		97
63)	Sec-Butylbenzene	21.79	105	798660	9.46416	ppb		99
64)	p-Isopropyltoluene	22.03	119	660723	9.43095	ppb		97
65)	1,3-DCB	22.17	146	340802	9.14391	ppb		99
66)	1,4-DCB	22.34	146	320868	9.47496	ppb		98
67)	n-Butylbenzene	22.73	91	535283	9.10865	ppb		96
68)	1,2-DCB	22.97	146	273022	9.15576	ppb		100
69)	1,2-Dibromo-3-chloropropan	24.17	157	14891	8.98375	ppb	#	70
70)	1,2,4-Trichlorobenzene	25.62	180	90976	8.75357	ppb		95
71)	Hexachlorobutadiene	25.87	223	41336	8.09374	ppb		98
72)	Naphthalene	25.97	128	99584	9.03769	ppb		98
73)	1,2,3-Trichlorobenzene	26.33	180	182958	8.83720	ppb		94

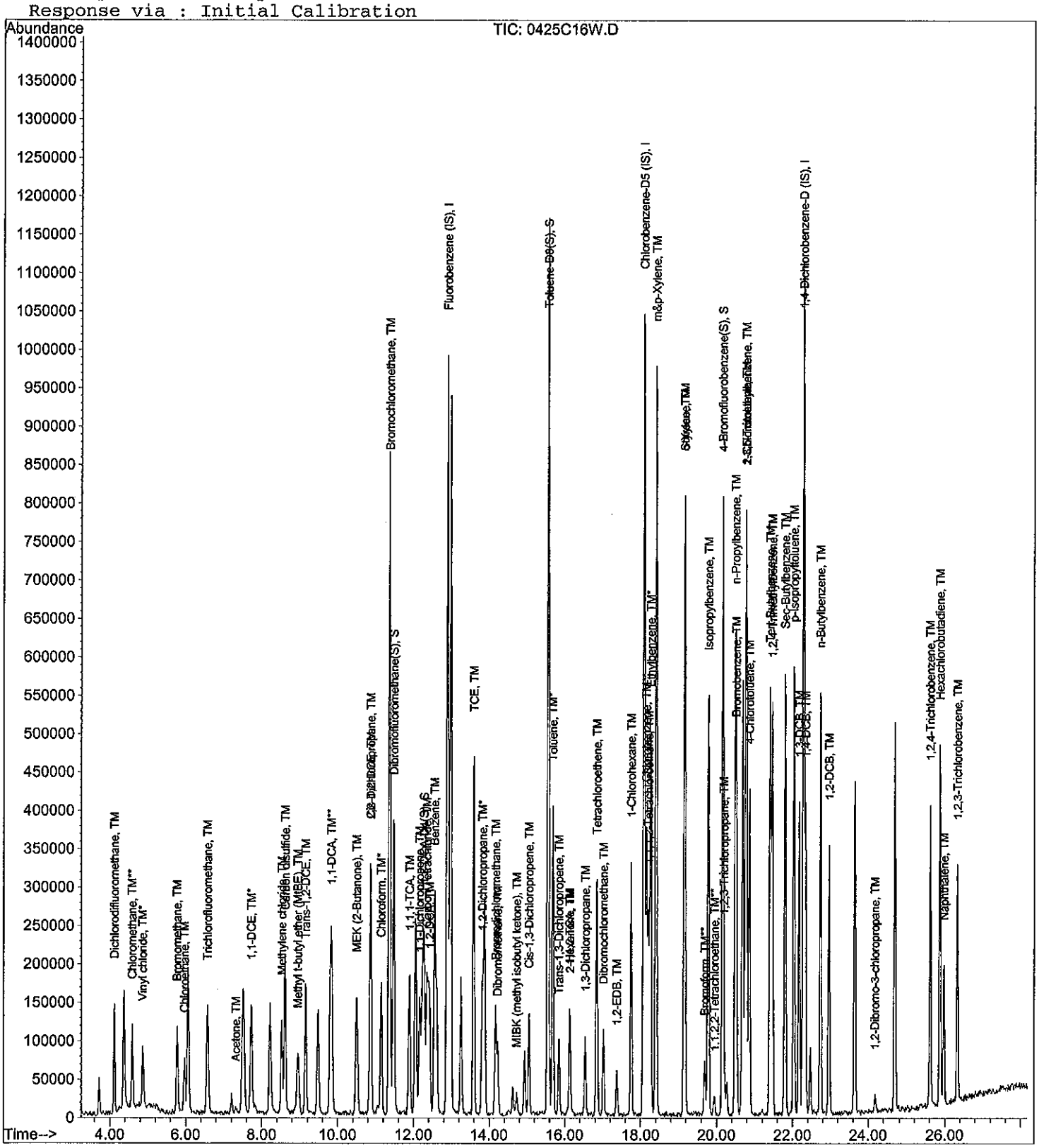
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C16W.D Vial: 1
Acq On : 25 Apr 11 20:06 Operator: RS
Sample : AY36384W234 MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 22:14 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0426C08W.D Vial: 1
Acq On : 26 Apr 11 15:42 Operator: RS
Sample : AY36384W678 MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:57 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

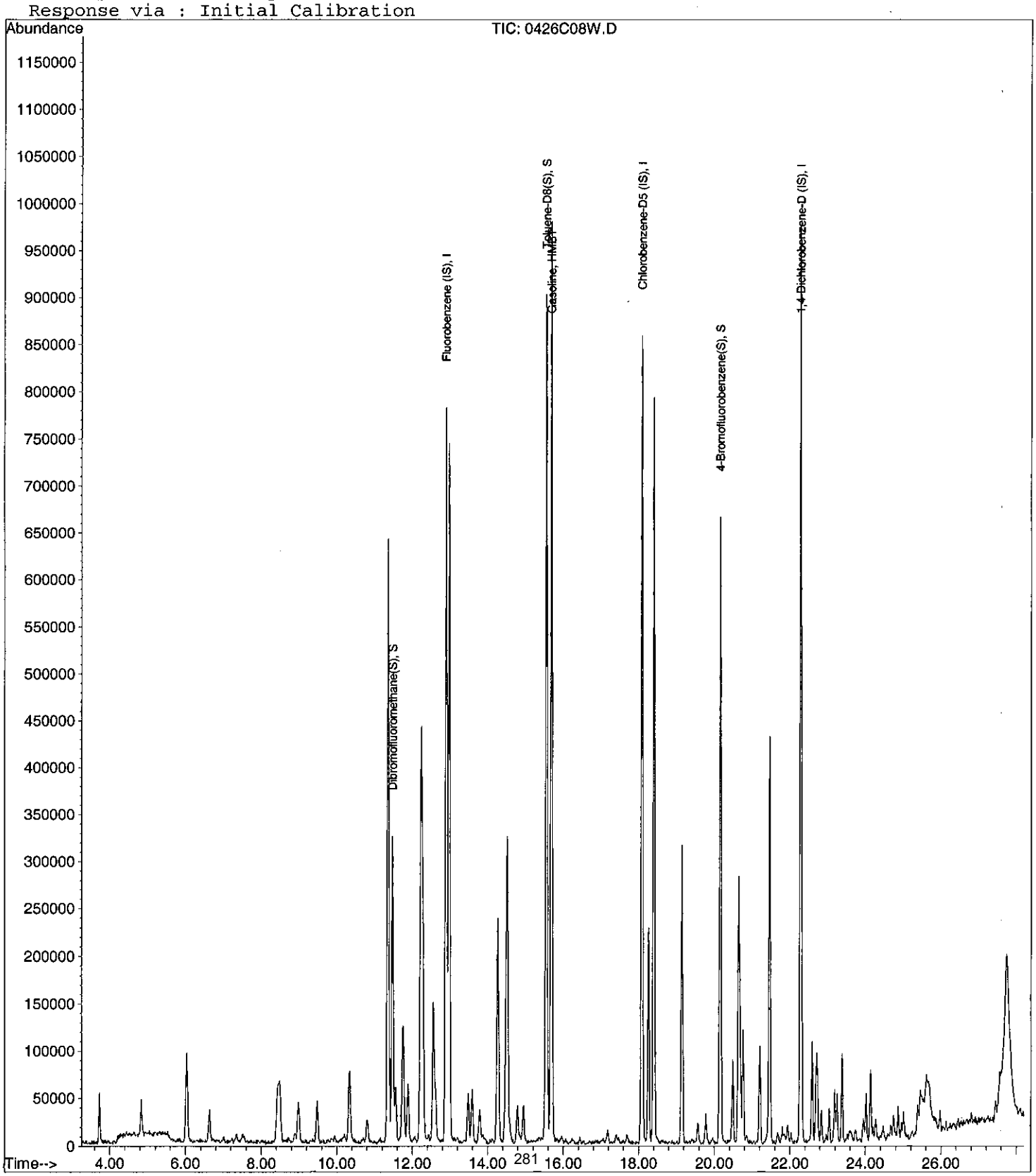
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	777987	25.00000 ppb	-0.02
4) Chlorobenzene-D5 (IS)	18.08	TIC	856928	25.00000 ppb	-0.02
7) 1,4-Dichlorobenzene-D (IS)	22.28	TIC	973622	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.47	TIC	1166484	27.00586 ppb	0.00
Spiked Amount 23.521			Recovery = 114.817%		
5) Toluene-D8(S)	15.55	TIC	2767124	25.53595 ppb	-0.02
Spiked Amount 26.002			Recovery = 98.208%		
6) 4-Bromofluorobenzene(S)	20.15	TIC	1908734	26.47817 ppb	-0.02
Spiked Amount 26.339			Recovery = 100.528%		
Target Compounds					Qvalue
2) Gasoline	15.68	TIC	33878455m	305.26641 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0426C08W.D Vial: 1
Acq On : 26 Apr 11 15:42 Operator: RS
Sample : AY36384W678 MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:57 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C17W.D Vial: 1
Acq On : 25 Apr 11 20:41 Operator: RS
Sample : AY36384W234 MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 22:12 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	520512	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.08	117	403712	25.00000 ppb		-0.02
51) 1,4-Dichlorobenzene-D (IS)	22.28	152	221248	25.00000 ppb		-0.02
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	355279	21.37409 ppb		-0.02
Spiked Amount 23.521			Recovery = 90.874%			
23) 1,2-DCA-D4(S)	12.28	65	218511	20.61464 ppb		-0.02
Spiked Amount 22.321			Recovery = 92.359%			
36) Toluene-D8(S)	15.55	98	1303581	22.70172 ppb		-0.02
Spiked Amount 26.002			Recovery = 87.309%			
44) 4-Bromofluorobenzene(S)	20.15	95	466431	24.54263 ppb		-0.02
Spiked Amount 26.339			Recovery = 93.183%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.11	85	180569	10.44316 ppb		91
3) Chloromethane	4.60	50	160188	9.92685 ppb		97
4) Vinyl chloride	4.87	62	42896	9.31561 ppb		98
5) Bromomethane	5.79	94	37912	8.86264 ppb		99
6) Chloroethane	5.97	64	103756	9.75012 ppb		93
7) Trichlorofluoromethane	6.57	101	222717	10.18444 ppb		99
8) Acetone	7.33	43	16052	16.56067 ppb		99
9) 1,1-DCE	7.73	96	98012	9.57019 ppb		98
10) Methylene chloride	8.52	84	102116	9.90634 ppb		92
11) Carbon disulfide	8.61	76	453415	10.76089 ppb		97
12) Methyl t-butyl ether (MtBE	8.96	73	175202	10.08903 ppb		98
13) Trans-1,2-DCE	9.15	96	113853	9.91841 ppb		95
14) 1,1-DCA	9.84	63	205509	9.68718 ppb		98
15) MEK (2-Butanone)	10.48	43	40506	10.03547 ppb	#	84
16) Cis-1,2-DCE	10.87	96	145213	9.58473 ppb		98
17) 2,2-Dichloropropane	10.86	77	173405	8.84318 ppb		99
18) Chloroform	11.15	83	216274	9.47509 ppb		100
19) Bromochloromethane	11.37	128	51617	10.17202 ppb		90
21) 1,1,1-TCA	11.89	97	201032	9.07307 ppb		97
22) 1,1-Dichloropropene	12.16	75	135722	9.38884 ppb		94
24) Carbon Tetrachloride	12.35	117	178047	9.16353 ppb		96
25) 1,2-DCA	12.43	62	86557	9.04519 ppb		96
26) Benzene	12.56	78	441844	9.98981 ppb		98
27) TCE	13.58	95	239134	16.43862 ppb		98
28) 1,2-Dichloropropane	13.82	63	104546	9.63093 ppb		98
29) Bromodichloromethane	14.16	83	147259	9.58561 ppb		94
30) Dibromomethane	14.22	93	49397	9.41617 ppb		97
31) Cis-1,3-Dichloropropene	15.05	75	146776	9.53650 ppb		92
32) Toluene	15.68	92	323387	9.93556 ppb		99
33) Trans-1,3-Dichloropropene	15.85	75	110907	9.64614 ppb		99
34) 1,1,2-TCA	16.13	83	53399	10.24901 ppb		94
37) 1,2-EDB	17.39	107	67404	9.48117 ppb	#	96
38) Tetrachloroethene	16.84	164	130435	9.19996 ppb		96
39) 1-Chlorohexane	17.75	91	203096	9.08477 ppb		96
40) 1,1,1,2-Tetrachloroethane	18.21	131	132990	9.15062 ppb		95
41) m&p-Xylene	18.40	106	526576	18.67638 ppb		97
42) o-Xylene	19.15	106	268474	9.65879 ppb		92
43) Styrene	19.17	78	186586	9.09314 ppb		93
45) 2-Hexanone	16.15	43	20736	9.94060 ppb	#	67

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C17W.D Vial: 1
Acq On : 25 Apr 11 20:41 Operator: RS
Sample : AY36384W234 MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 22:12 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.53	76	109773	9.58939	ppb		98
47)	Dibromochloromethane	17.02	129	104917	9.39530	ppb		88
48)	Chlorobenzene	18.15	112	379966	9.30770	ppb		93
49)	Ethylbenzene	18.27	91	636363	9.24725	ppb		100
50)	Bromoform	19.68	173	62704	9.50473	ppb		90
52)	MIBK (methyl isobutyl keto	14.72	43	34084	9.27349	ppb	#	71
53)	Isopropylbenzene	19.78	105	696870	9.20121	ppb		97
54)	1,1,2,2-Tetrachloroethane	19.94	83	15308	2.46235	ppb	#	72
55)	1,2,3-Trichloropropane	20.19	110	20279	10.40864	ppb		79
56)	Bromobenzene	20.52	156	165342	9.10786	ppb		92
57)	n-Propylbenzene	20.48	91	791932	9.31511	ppb		98
58)	2-Chlorotoluene	20.78	91	502210	8.91269	ppb		90
59)	1,3,5-Trimethylbenzene	20.76	105	535482	8.98996	ppb		94
60)	4-Chlorotoluene	20.86	91	443585	9.09836	ppb		97
61)	Tert-Butylbenzene	21.40	119	603126	9.22807	ppb		98
62)	1,2,4-Trimethylbenzene	21.46	105	551969	9.17874	ppb		99
63)	Sec-Butylbenzene	21.80	105	761106	9.04001	ppb		100
64)	p-Isopropyltoluene	22.03	119	647474	9.26323	ppb		99
65)	1,3-DCB	22.17	146	343433	9.23583	ppb		98
66)	1,4-DCB	22.34	146	316968	9.38146	ppb		94
67)	n-Butylbenzene	22.74	91	520721	8.88136	ppb		96
68)	1,2-DCB	22.97	146	284953	9.57797	ppb		98
69)	1,2-Dibromo-3-chloropropan	24.18	157	15382	9.30145	ppb		78
70)	1,2,4-Trichlorobenzene	25.62	180	96912	9.34630	ppb		99
71)	Hexachlorobutadiene	25.87	223	38528	7.56138	ppb		95
72)	Naphthalene	25.97	128	106088	9.65023	ppb		99
73)	1,2,3-Trichlorobenzene	26.32	180	191157	9.25460	ppb		95

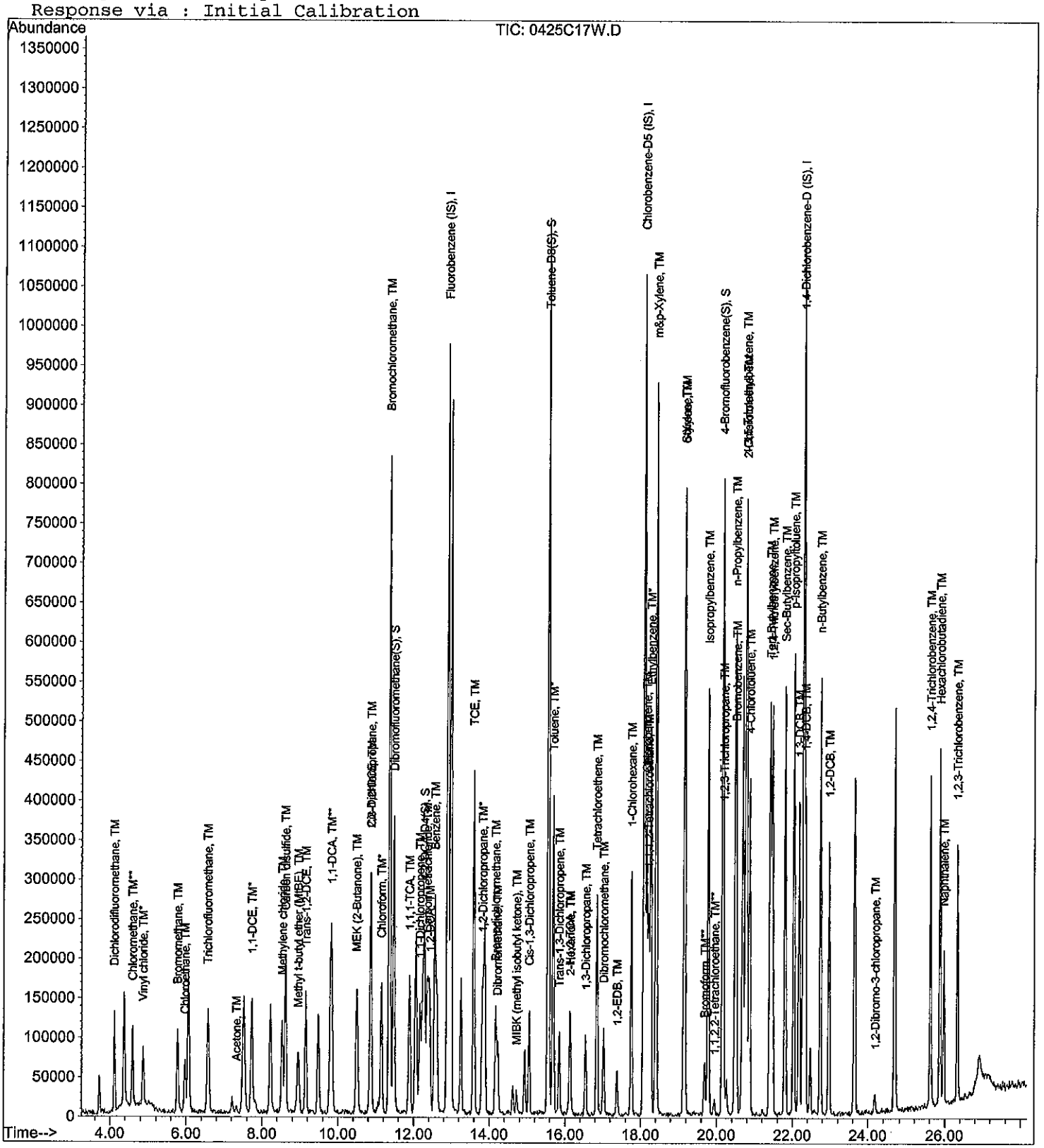
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C17W.D Vial: 1
Acq On : 25 Apr 11 20:41 Operator: RS
Sample : AY36384W234 MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 22:12 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0426C09W.D Vial: 1
Acq On : 26 Apr 11 16:17 Operator: RS
Sample : AY36384W678 MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:57 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

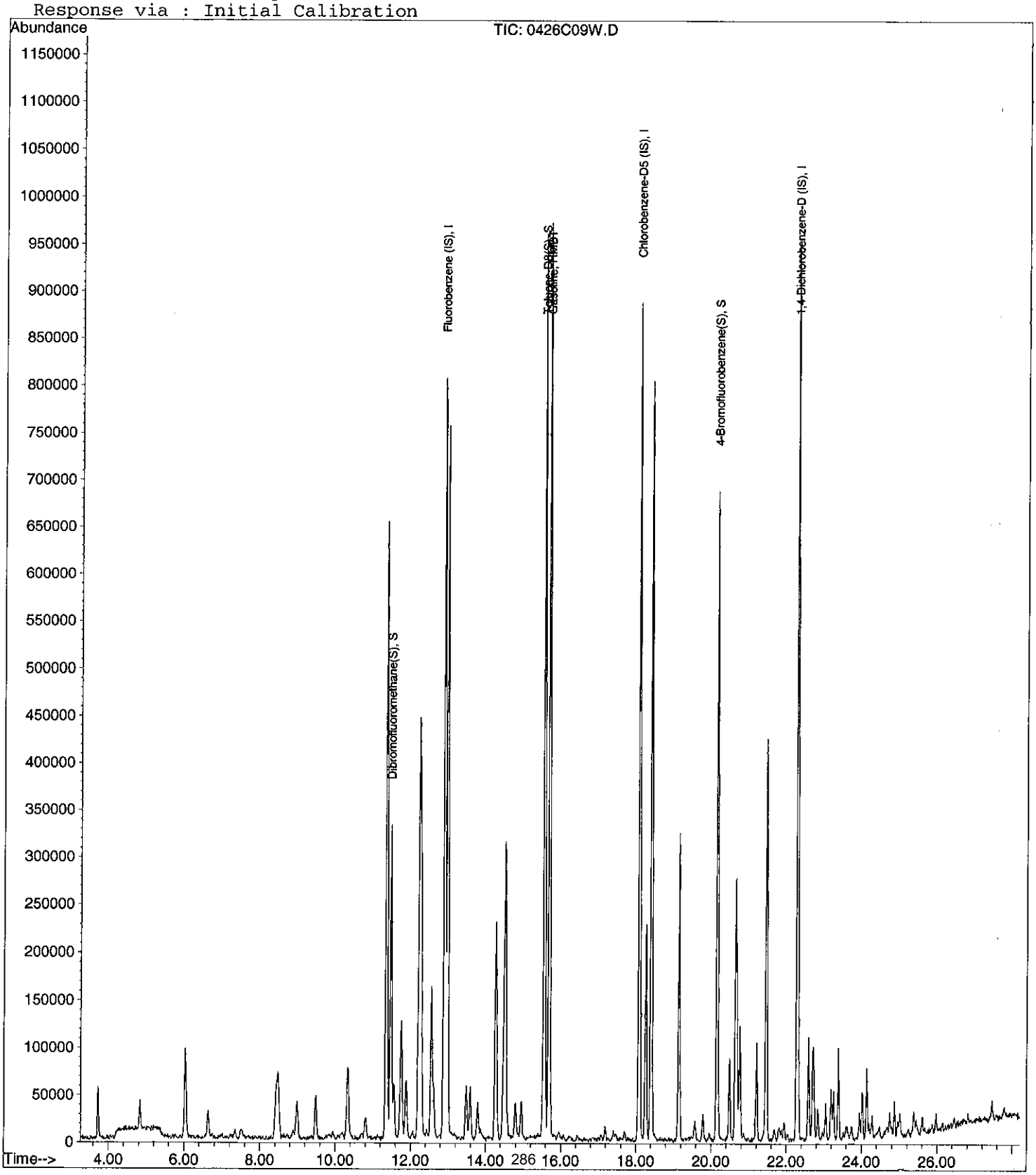
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	803504	25.00000	ppb	-0.01
4) Chlorobenzene-D5 (IS)	18.09	TIC	886121	25.00000	ppb	-0.01
7) 1,4-Dichlorobenzene-D (IS)	22.28	TIC	949203	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.48	TIC	918455	20.58834	ppb	0.00
Spiked Amount 23.521			Recovery =	87.530%		
5) Toluene-D8(S)	15.55	TIC	2892544	25.81396	ppb	-0.01
Spiked Amount 26.002			Recovery =	99.277%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	1928494	25.87094	ppb	-0.01
Spiked Amount 26.339			Recovery =	98.223%		
Target Compounds						Qvalue
2) Gasoline	15.69	TIC	34971190m	304.95345	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0426C09W.D Vial: 1
Acq On : 26 Apr 11 16:17 Operator: RS
Sample : AY36384W678 MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:57 2011 Quant Results File: GAS.RES

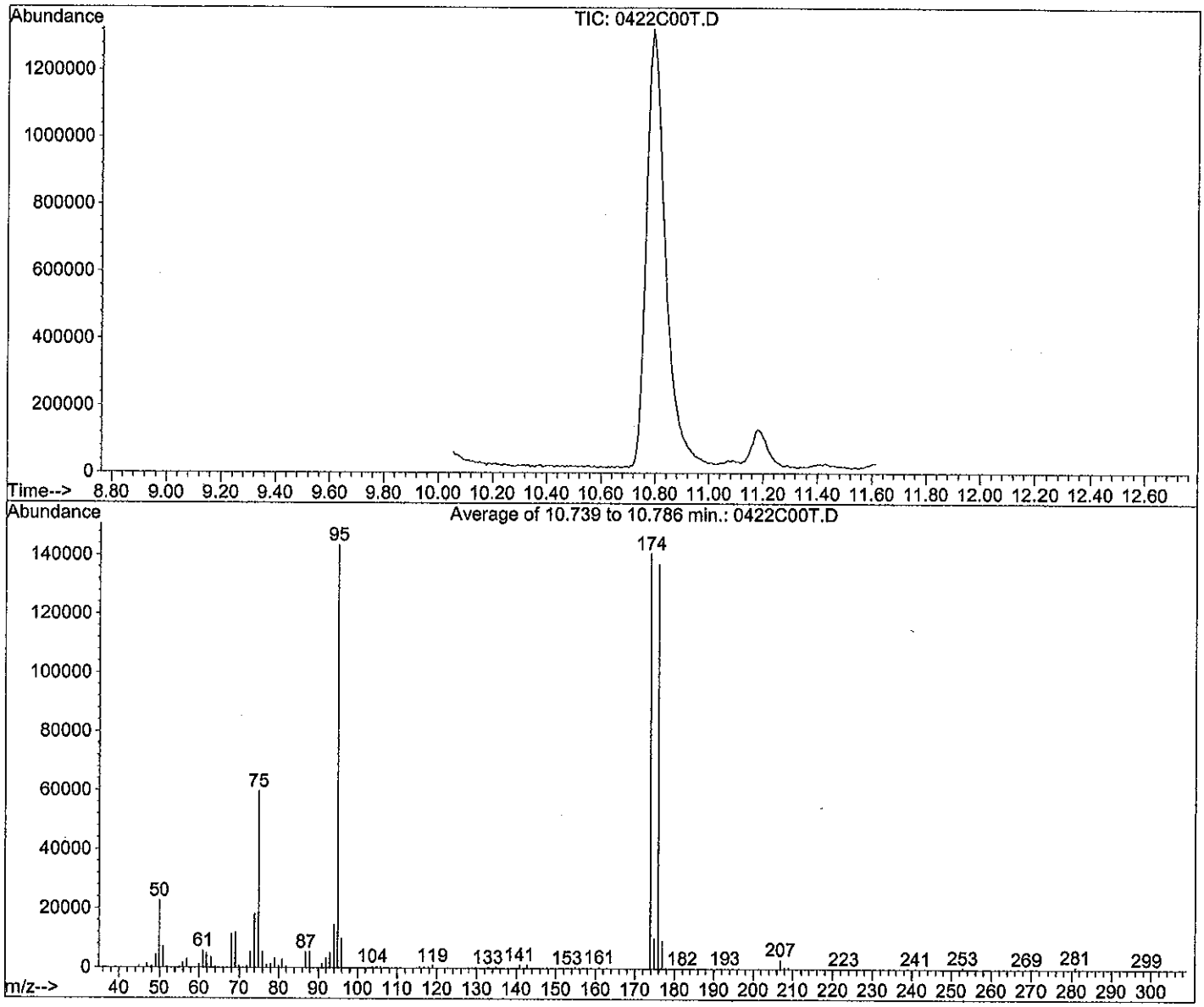
Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C110422\0422C00T.D
Acq On : 22 Apr 11 15:43
Sample : 20ug/ml BFB STD 04-15-11A
Misc : 2uL

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

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 10.739 to 10.786 min.

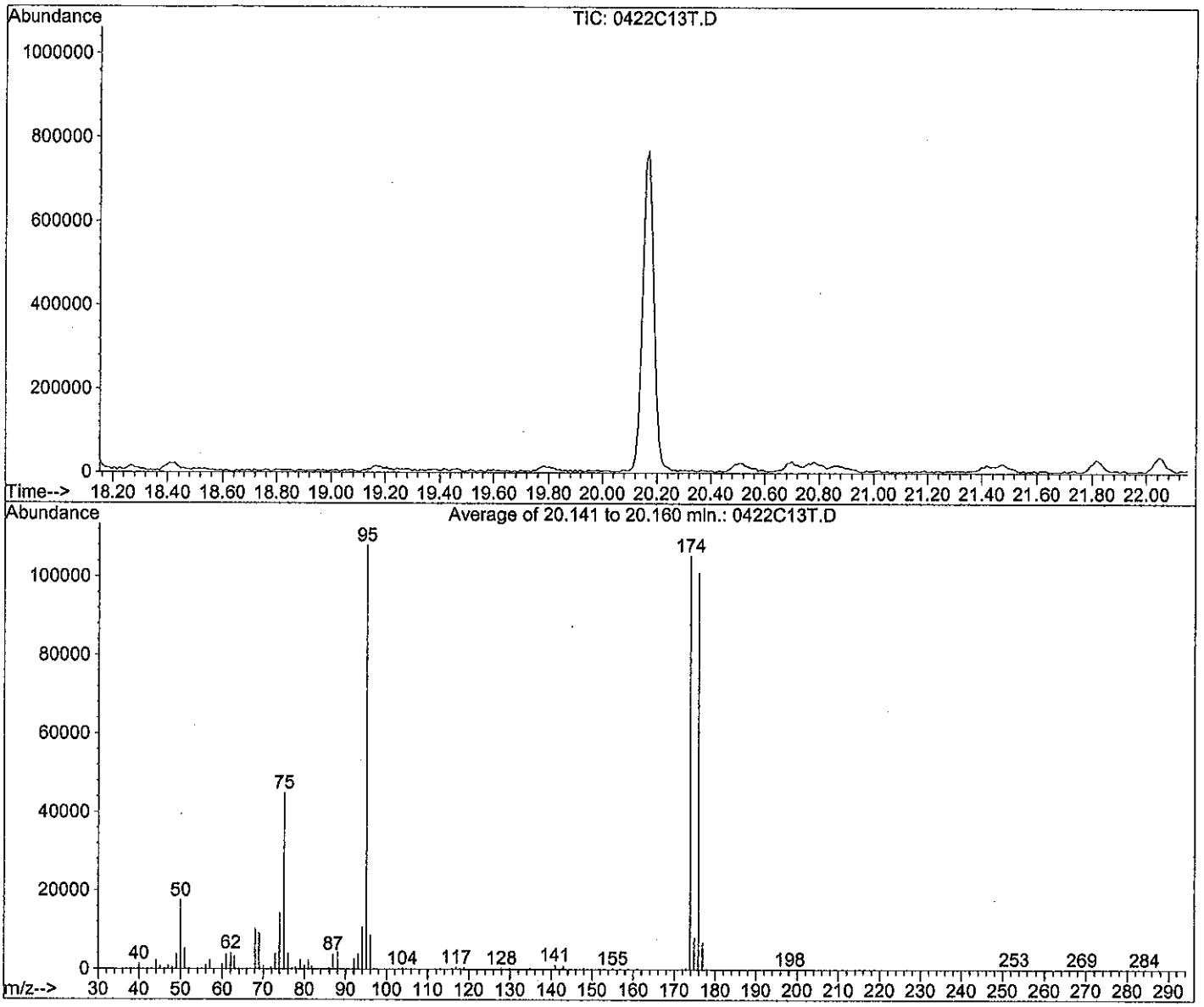
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	22683	PASS
75	95	30	60	41.6	59778	PASS
95	95	100	100	100.0	143544	PASS
96	95	5	9	7.0	10016	PASS
173	174	0.00	2	0.1	75	PASS
174	95	50	100	98.2	140932	PASS
175	174	5	9	7.4	10383	PASS
176	174	95	101	97.3	137193	PASS
177	176	5	9	7.0	9621	PASS

BFB

Data File : M:\CHICO\DATA\C110422\0422C13T.D
Acq On : 22 Apr 11 23:53
Sample : 20ug/ml BFB STD 04-15-11A
Misc : 2ul

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

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B



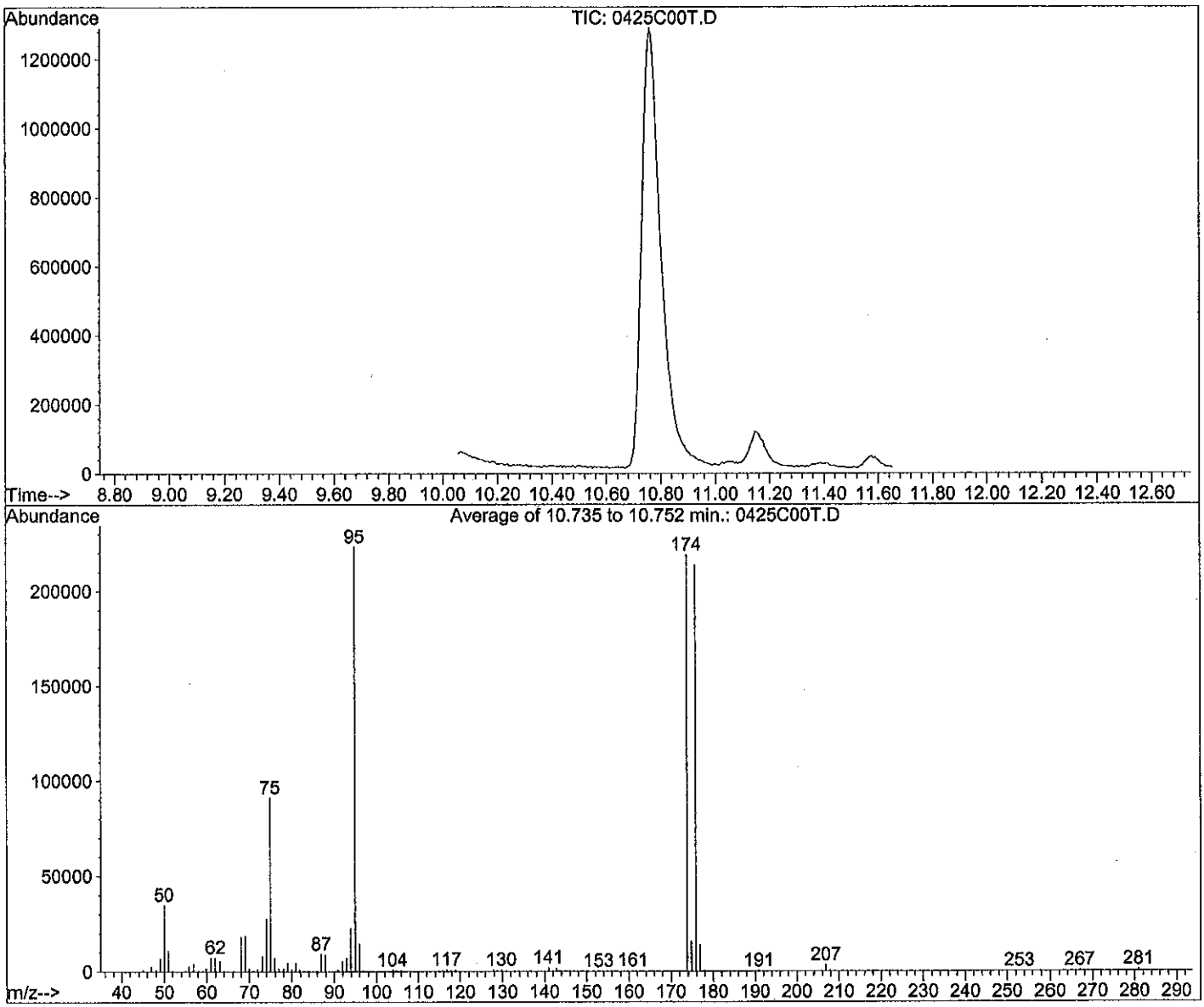
Spectrum Information: Average of 20.141 to 20.160 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	17487	PASS
75	95	30	60	41.6	44917	PASS
95	95	100	100	100.0	107933	PASS
96	95	5	9	8.0	8634	PASS
173	174	0.00	2	0.5	483	PASS
174	95	50	100	97.7	105496	PASS
175	174	5	9	7.8	8183	PASS
176	174	95	101	95.8	101021	PASS
177	176	5	9	6.9	6934	PASS

Data File : M:\CHICO\DATA\C110422\0425C00T.D
Acq On : 25 Apr 11 10:08
Sample : 20ug/ml BFB STD 04-15-11A
Misc : 2uL

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

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B



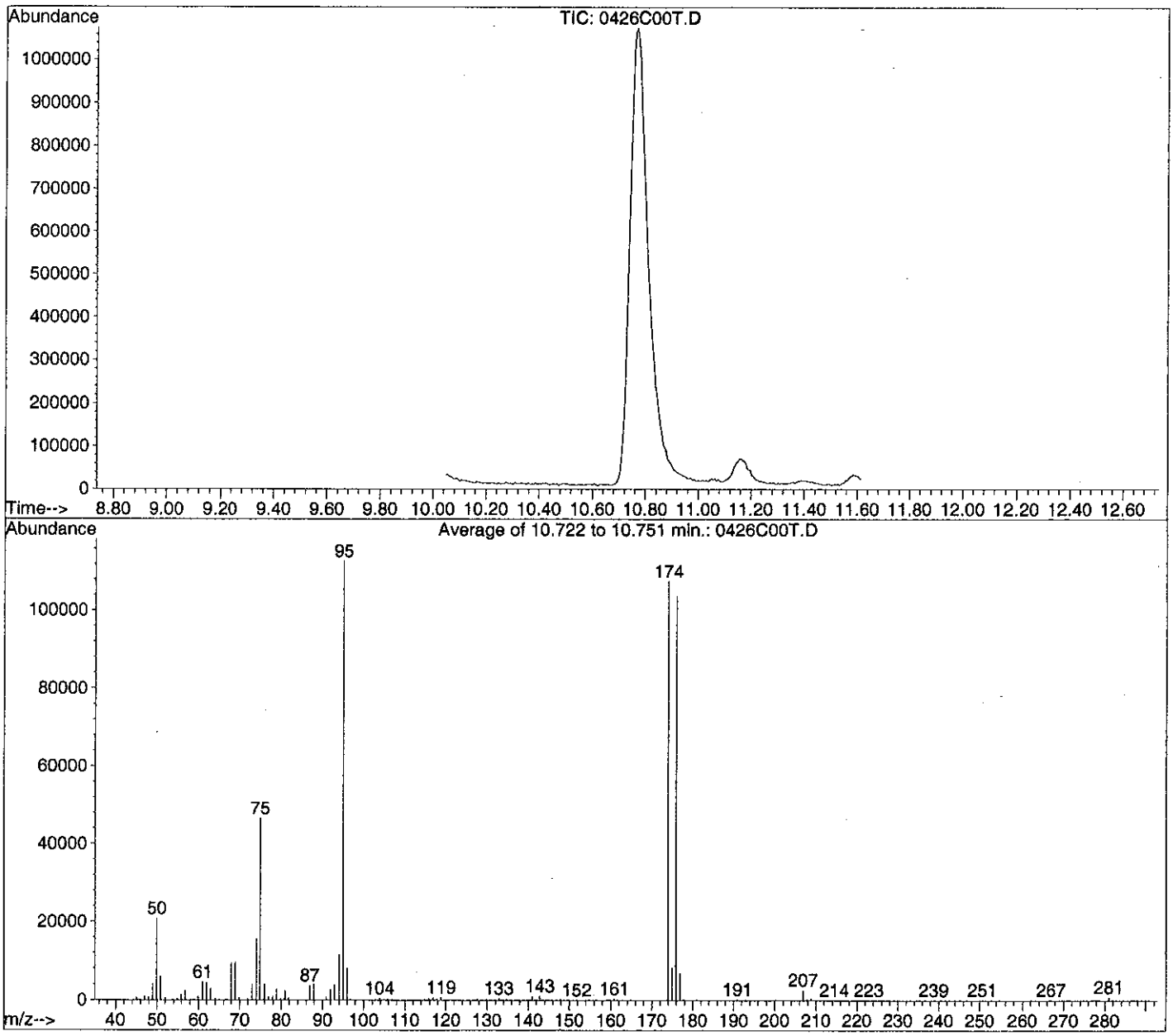
Spectrum Information: Average of 10.735 to 10.752 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6	34856	PASS
75	95	30	60	40.9	91310	PASS
95	95	100	100	100.0	223360	PASS
96	95	5	9	6.5	14585	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.1	219120	PASS
175	174	5	9	7.2	15813	PASS
176	174	95	101	97.6	213808	PASS
177	176	5	9	6.4	13786	PASS

Data File : M:\CHICO\DATA\C110422\0426C00T.D
Acq On : 26 Apr 11 10:29
Sample : 20ug/ml BFB STD 04-15-11A
Misc : 2uL

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

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 10.722 to 10.751 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	20772	PASS
75	95	30	60	41.3	46567	PASS
95	95	100	100	100.0	112705	PASS
96	95	5	9	7.2	8160	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	95.5	107587	PASS
175	174	5	9	7.6	8186	PASS
176	174	95	101	96.4	103688	PASS
177	176	5	9	6.6	6856	PASS

034

4-29-11
RS.

Volatile Standard Curve Preparation for 5mL Purge (8260 soil)-Max

	Expiration Date:		04/30/11								
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	04-25-11T	04-25-11X	04-25-11P	04-25-11R	04-25-11W	04-25-11U	04-25-11Q	04-25-11S	04-25-11V
Code	µg/L	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11
04-29-11T	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
04-29-11U	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
04-29-11V	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
04-29-11W	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
04-29-11X	50	n/a	n/a	5	5	5	n/a	5	n/a	5
04-29-11Y	100	n/a	n/a	10	10	10	n/a	10	n/a	10
04-29-11Z	200	n/a	n/a	20	20	20	n/a	20	n/a	20

50µg/mL TBA 04-25-11Y Exp:05-02-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

4-30-11
RS.

Volatile Standard Curve Preparation for 5mL Purge (8260 soil)-Chico

	Expiration Date:		05/01/11								
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	04-25-11T	04-25-11X	04-25-11P	04-25-11R	04-25-11W	04-25-11U	04-25-11Q	04-25-11S	04-25-11V
Code	µg/L	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11
04-30-11A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
04-30-11B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
04-30-11C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
04-30-11D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
04-30-11E	50	n/a	n/a	5	5	5	n/a	5	n/a	5
04-30-11F	100	n/a	n/a	10	10	10	n/a	10	n/a	10
04-30-11G	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA 04-25-11Y Exp:05-02-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

5-02-11
RS.

A-

Method 8260 Gases, 2,000 mg/L, 2 X 0.6 ml

120016-03

Lot #	Storage	Expiry
169238	≤ -10 Degrees C	2/19/14

Solv: P/T Methanol

R&D only, not human consump. Made in the USA

Method 8260 Gases
Lot #: 169238 - 28291
Rec: 2/17/11 MFR exp. 02/19/14

5-02-11
RS.

B-

Hexachloroethane Solution, 1000 mg/L, 1 ml

O2si

Cat. No: 020049-02
Lot No: 157911

Exp: 4/1/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol
ption For Research Use Only
Opened: _____

Hexachloroethane
Lot #: 157911 - 26706
Rec: 6/8/10 MFR exp. 04/01/12

5-02-11
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

R&D only, not human consump. Made in the USA

Benzyl Chloride
Lot #: 163373 - 27865
Rec: 12/15/10 MFR exp. 08/29/12

5-02-11 RS

D-

n-Hexane Solution, 1,000 mg/L, 1 ml

020610-02

Lot #	Storage	Expiry
163378	≤ -10 Degrees	8/29/15

Solv: P/T Methanol

R&D only, not human consump. Made in the USA

n-Hexane, 1000mg/L

Lot #: 163378 - 27881

Rec: 12/15/10 MFR exp. 08/29/15

5-02-11 RS

E-

Heptane Solution, 1000 mg/L, 1 ml

o2si smart solutions

Cat. No: 020546-02
Lot No: 149236

Heptane Solution

Lot #: 149236 - 27650

Rec: 10/20/10 MFR exp. 08/02/12

Exp: 8/2/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

I: _____

5-02-11 RS

F-

Method 8260B Surrogate Solution, 2,000 mg/L, 1 ml

120002-01

Lot #	Storage	Expiry
164585	≤ -10 Degrees C	10/12/13

Solv: P/T Methanol

R&D only, not human consump. Made in the USA

Method 8260B Surrogate

Lot #: 164585 - 27936

Rec: 12/15/10 MFR exp. 10/12/13

5-02-11 RS

G1-

VOC Mix 4-3, 2,000 mg/L, 1 ml

120166-01

Lot #	Storage	Expiry
166725	≤ 6 Degrees C	12/2/12

Solv: P/T Methanol

R&D only, not human consump. Made in the USA

VOC Mix 4-3, 2000mg/L

Lot #: 166725 - 28320

Rec: 2/17/11 MFR exp. 12/02/12

5-02-11 RS

H-

Acrolein Solution, 10,000 mg/L, 2 x 0.6 ml

020229-09-02

Lot #	Storage	Expiry
171923	≤ 6 Degrees C	5/25/11

Solv: Water, HPLC Grade

R&D only, not human consump. Made in the USA

Acrolein solution

Lot #: 171923 - 28626

Rec: 4/19/11 MFR exp. 05/25/11

5-02-11 RS

I-

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml

o2si smart solutions

Cat. No: 120016-03-SS
Lot No: 160736

Method 8260 Gases (SS)

Lot #: 160736 - 27915

Rec: 12/15/10 MFR exp. 06/23/11

Exp: 6/21/2013
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

Opened: _____

036

5-02-11 J-
RS.

Acrolein Solution (Second Source), 10,000 mg/L, 2 x 0.6 ml
020229-09-02-SS

Lot #	Storage	Expiry
171924	≤6 Degrees C	5/25/11

Solvt Water, HPLC Grade

For R&D only, not for human consumption. Made in the USA

Acrolein Solution SS
Lot #: 171924 - 28628
Rec: 4/19/11 MFR exp. 05/25/11

05-02-11K							
50ug/ml Vol Work Std #7							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169238-28291	05-02-11A	06/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	163373-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3500
05-02-11L							
50ug/ml Vol Work Std #1							
Exp:05/09/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146517-26190	04-16-11D	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	1950
05-02-11M							
50ug/ml Vol Work Std #8							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
02SI	120023-03	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020232-02	Vinyl Acetate	2000	169419-28359	04-16-11F	05/19/11	100
02SI	020620-02	n-Hexane	1000	163378-27881	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	149236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3300
05-02-11N							
50ug/ml Vol Work Std #2							
Exp:05/09/11			ug/ml				
Supplier	ID #	ID					
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00513	05/02/11	10/14/11	3900
		05-02-11O	Exp:	05/09/11			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		05-02-11K	05/02/11	200	
		50ug/ml Vol Work Std #8		05-02-11M	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	
		05-02-11P	Exp:	05/09/11			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		04-25-11Q	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
		05-02-11Q	Exp:	05/09/11			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		04-25-11S	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
05-02-11R							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/09/11			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	164585-27936	05-02-11F	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3900
05-02-11S			Exp:	05/09/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-02-11R	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	1800	

5-02-11
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5-02-11
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05-02-11S							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/09/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166725-28320	05-02-11G	05/17/11	500
02SI	020229-09	Acrolein	10000	171923-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3400

5-02-11
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05-02-11U							
50ug/ml VOC Std#5							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03-SS	8260 Gases(SS)	2000	160736-27915	05-02-11I	06/02/11	50
02SI	020145-02-02-S	2-CEVE	2000	152530-25436	04-16-11L	11/03/11	50
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1900
05-02-11V							
50ug/ml VOC Std#6							
Exp:05/09/11							
	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120023-03-SS	VOC'S 54 COMP.	2000	148632-26236	04-16-11M	07/14/11	50
02SI	120296-01	Custom 6260 Solution	2000	154846-25954	04-16-11N	07/14/11	50
02SI	020232-02-SS	Vinyl Acetate(SS)	2000	167177-28334	04-16-11R	05/15/11	50
02SI	020620-02-SS	n-HEXANE	1000	150529-27171	04-16-11O	09/02/11	100
02SI	020049-02-SS	HEXACHLOROETHANE	1000	154535-25914	04-16-11P	12/29/11	100
02SI	020546-02-SS	Heptane(SS)	1000	142276-23594	04-16-11Q	06/19/11	100
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1550
05-02-11W							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/09/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	152531-26241	04-03-11K	11/03/11	250
02SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	171924-28628	05-02-11J	05/25/11	50
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1700

5-02-11
RS

05-02-11X							
50ug/ml Vol Work Std #7							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169238-28291	05-02-11A	06/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	163373-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3500
05-02-11Y							
50ug/ml Vol Work Std #1							
Exp:05/09/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146517-26190	04-16-11D	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1950

5-02-11
RS

05-02-11Z							
50ug/ml Vol Work Std #8							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
02SI	120023-03	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020232-02	Vinyl Acetate	2000	169439-28359	04-16-11F	05/19/11	100
02SI	020620-02	n-Hexane	1000	163378-27881	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	149236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3300
05-02-11AA							
50ug/ml Vol Work Std #2							
Exp:05/09/11			ug/ml				
Supplier	ID #	ID					
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3900

		05-02-11AB	Exp:	05/09/11		
		5ug/ml Vol Work Std #9				
		SOURCES	Lot	APPL Code	APPL Exp Date	ul
		50ug/ml Vol Work Std #7		05-02-11X	05/02/11	200
		50ug/ml Vol Work Std #8		05-02-11Z	05/02/11	200
		J&T Brand		05/02/11	10/14/11	1600

038

		05-02-11AC	Exp:	05/09/11			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		05-02-11Y	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
		05-02-11AD	Exp:	05/09/11			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		05-02-11AA	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
05-02-11AE							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/09/11			ug/ml	Lot #	Code	Date	uL
5-02-11	120002-01	8260B Surr Solution	2000	164585-27936	05-02-11P	09/14/11	100
RS J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3900
05-02-11AF			Exp:	05/09/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-02-11AE	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	1800	
05-02-11AG							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/09/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166725-28320	05-02-11G	05/17/11	500
02SI	020229-09	Acrolein	10000	171923-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3400

05/02/11AH							
2000ug/ml Gasoline						APPL	
			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
Supelco	LB61226	Gasoline	20	LB61226-26324	10-29-10A	09/02/11	200
J&T Brand		Purge & Trap MeOH		H46E44-00490	01/17/11	03/02/12	1800
5-02-11							
05/02/11AI							
RS 2000ug/ml Unleaded Gasoline						APPL	
			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
Supelco	30205	Unleaded Gasoline	50,000	A050005-21116	10-29-10B	11/30/12	80
J&T Brand		Purge & Trap MeOH		H46E44-00490	01/17/11	03/02/12	1920

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-Chico

	Expiration Date:		05/03/11								
		6ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #6	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	50ug/mL Vol Std #2	6ug/mL Vol Std #12
Date	Conc.	05-02-11O	05-02-11S	05-02-11K	05-02-11M	05-02-11R	05-02-11P	05-02-11L	05-02-11N	05-02-11Q
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-02-11AJ	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-02-11AK	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-02-11AL	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-02-11AM	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-02-11AN	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-02-11AO	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-02-11AP	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-02-11AQ	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-02-11AR	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

5-02-11 RS

250ug/mL TAPD 05-02-11S Exp:05-09-11	Final Vol w/P&T H2O mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

042

5-06-11
RS

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-Sweetpea

	Expiration Date:		05/07/11								
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	05-02-11AB	05-02-11AF	05-02-11X	05-02-1Z	05-02-11AE	05-02-11AC	05-02-11Y	05-02-11AA	05-02-11AD
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-06-11L	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-06-11M	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-06-11N	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-06-11O	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-06-11P	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-06-11Q	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-06-11R	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-06-11S	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-06-11T	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

RS

250µg/mL TAPD	Final Vol
05-02-11AG	w/P&T H2O
Exp:05-09-11	mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-07-11
5-06-11
RS

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-Max

	Expiration Date:		05/08/11								
		6µg/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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	05-02-11AB	05-02-11AF	05-02-11X	05-02-1Z	05-02-11AE	05-02-11AC	05-02-11Y	05-02-11AA	05-02-11AD
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-07-11A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-07-11B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-07-11C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-07-11D	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-07-11E	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-07-11F	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-07-11G	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-07-11H	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-07-11I	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

RS

250µg/mL TAPD	Final Vol
05-02-11AG	w/P&T H2O
Exp:05-09-11	mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-07-11
RS

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-Thor

	Expiration Date:		05/08/11								
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	05-02-11AB	05-02-11AF	05-02-11X	05-02-1Z	05-02-11AE	05-02-11AC	05-02-11Y	05-02-11AA	05-02-11AD
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-07-11J	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-07-11K	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-07-11L	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-07-11M	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-07-11N	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-07-11O	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-07-11P	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-07-11Q	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-07-11R	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

RS

250µg/mL TAPD	Final Vol
05-02-11AG	w/P&T H2O
Exp:05-09-11	mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-09-11
RS.

A.

Method 8260 Gases, 2,000 mg/L, 2 X 0.6 ml

120016-03

Lot#	Storage	Expiry
169233	5-10 Degrees C	2/19/14

Solv: P/T Methanol

RS

Method 8260 Gases

Lot #: 169238 - 28292

Rec: 2/17/11 MFR exp. 02/19/14

5-09-11 B-
RS

2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 2 X 0.6 ml

o2si smart solutions

Cat. No: 020145-02-02
Lot No: 160092

Exp: 5/27/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only
Opened: _____

2-Chloroethyl vinyl ether
Lot #: 160092 - 26629
Rec: 6/4/10 MFR exp. 05/27/12

RS

5-09-11 C.
RS

Method 8260B Surrogate Solution, 2,000 mg/L, 1 ml

120002-01

Lot#	Storage	Expiry
164585	≤ 10 Degrees C	10/12/13

Solv: P/T Methanol

Method 8260B Surrogate
Lot #: 164585 - 27924
Rec: 12/15/10 MFR exp. 10/12/13

RS

5-09-11 D.
RS

VOC Mix 4-3, 2,000 mg/L, 1 ml

120168-01

Lot#	Storage	Expiry
166125	≤ 6 Degrees C	12/2/12

Solv: P/T Methanol

VOC Mix 4-3, 2000mg/L
Lot #: 166725 - 28314
Rec: 2/17/11 MFR exp. 12/02/12

RS

5-09-11 E.
RS.

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml

o2si

Cat. No: 120016-03-SS
Lot No: 160736

Exp: 6/21/2013
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only
Opened: _____

Method 8260 Gases (SS)
Lot #: 160736 - 27904
Rec: 12/15/10 MFR exp. 06/23/11

RS

05-09-11P							
50ug/ml Vol Work Std #7							
Exp:05/16/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169238-28292	05-09-11A	06/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	163373-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3500
05-09-11G							
50ug/ml Vol Work Std #1							
Exp:05/16/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146517-26192	05-09-11B	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1950

5-09-11
RS.

RS

044

05-09-11H							
50ug/ml Vol Work Std #8							
Exp:05/16/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
02SI	120023-03	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020232-02	Vinyl Acetate	2000	169439-28359	04-16-11F	05/19/11	100
02SI	020620-02	n-Hexane	1000	163378-27881	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	149236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3300
05-09-11I							
50ug/ml Vol Work Std #2							
Exp:05/16/11			ug/ml				
Supplier	ID #	ID					
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3900
		05-09-11J	Exp:	05/16/11			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		05-09-11F	05/02/11	200	
		50ug/ml Vol Work Std #8		05-09-11H	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	
		05-09-11K	Exp:	05/16/11			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		05-09-11G	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
		05-09-11L	Exp:	05/16/11			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		05-09-11I	05/02/11	200	
		J&T Brand		H45E36-00514	05/09/11	1800	
05-09-11M							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/16/11			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	164585-27924	05-09-11C	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3900
05-09-11N			Exp:	05/16/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-09-11M	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	1800	
05-09-11O							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/16/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166725-28314	05-09-11D	05/17/11	500
02SI	020229-09	Acrolein	10000	171923-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3400

5-09-11
RS

05-09-11P							
50ug/ml VOC Std#5							
Exp:05/16/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	120016-03-SS	8260 Gases(SS)	2000	160736-27904	05-09-11E	06/02/11	50
O2SI	020145-02-02-S	2-CEVE	2000	152530-25456	04-16-11L	11/03/11	50
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	1900
05-09-11Q							
50ug/ml VOC Std#6							
Exp:05/16/11							
	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	120023-03-SS	VOC'S 54 COMP.	2000	148632-26236	04-16-11M	07/14/11	50
O2SI	120296-01	Custom 8260 Solution	2000	154846-25954	04-16-11N	07/14/11	50
O2SI	020232-02-SS	Vinyl Acetate(SS)	2000	167177-28334	04-16-11R	05/15/11	50
O2SI	020620-02-SS	n-HEXANE	1000	150529-27171	04-16-11O	09/02/11	100
O2SI	020049-02-SS	HEXACHLOROETHANE	1000	154535-25914	04-16-11P	12/29/11	100
O2SI	020546-02-SS	Heptane(SS)	1000	142276-23594	04-16-11Q	06/19/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	1550
05-09-11R							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/16/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
O2SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	152531-26241	04-03-11K	11/03/11	250
O2SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	171924-28628	05-02-11J	05/25/11	50
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	1700

5-09-11 RS

05-09-11S							
50ug/ml Vol Work Std #7							
Exp:05/16/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	120016-03	Gas Mix	2000	169238-28292	05-09-11A	06/02/11	100
O2SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
O2SI	020228-02	Benzyl Chloride	1000	163373-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3500
05-09-11T							
50ug/ml Vol Work Std #1							
Exp:05/16/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	020145-02-02	2-CEVE	2000	146517-26192	05-09-11B	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	1950
05-09-11U							
50ug/ml Vol Work Std #8							
Exp:05/16/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	122039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
O2SI	120023-03	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
O2SI	020232-02	Vinyl Acetate	2000	169439-28359	04-16-11F	05/19/11	100
O2SI	020620-02	n-Hexane	1000	163378-27881	05-02-11D	06/14/11	200
O2SI	020546-02	Heptane	1000	149236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3300
05-09-11V							
50ug/ml Vol Work Std #2							
Exp:05/16/11			ug/ml				
Supplier	ID #	ID					
O2SI	121020-05	HSL'S-Ketone Solution	2000	169173-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3900
		05-09-11W	Exp:	05/16/11			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		05-09-11S	05/02/11	200	
		50ug/ml Vol Work Std #8		05-09-11U	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	
		05-09-11X	Exp:	05/16/11			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		05-09-11T	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	

5-09-11 RS

046

		05-09-11Y	Exp:	05/16/11			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		05-09-11V	05/02/11	200	
		J&T Brand		H45E36-00514	05/09/11	1800	
05-09-11Z							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/16/11			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	164585-27924	05-09-11C	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3900
05-09-11AA			Exp:	05/16/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-09-11Z	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	1800	
05-09-11AB							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/16/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166725-28314	05-09-11D	05/17/11	500
02SI	020229-09	Acrolein	10000	171923-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3400

5-09-11 RS

RS

Method 8260 Internal Standard Solution, 2,000 mg/L, 1 ml

o2si Cat. No: 120302-03
Lot No: 153416
Method 8260 Internal Standard
Lot #: 153416 - 27532
Rec: 10/12/10 MFR exp. 11/24/11

Exp: 11/24/2011
Storage: <= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

5-09-11 RS

RS

Fluorobenzene Solution, 2,000 mg/L, 1 ml

020132-02

Lot #	Storage	Expiry
161971	≤6 Degrees C	8/12/13

Solvent: P/T Methanol

Fluorobenzene
Lot #: 162971 - 27950
Rec: 12/15/10 MFR exp. 08/12/13

5-09-11 RS

RS

Hewey							
05-09-11AE							
250ug/ml 8260 Internal Standard - Hewey			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120302-03	Internal Standard Mix	2000	153416-27532	05-09-11AC	07/16/11	500
02SI	020132-02	Fluorobenzene Standard	2000	162971-27950	05-09-11AD	07/16/11	500
JT Baker		Purge & Trap MeOH		H46E44-00509	04/25/11	12/14/11	3000
05-09-11AF							
250ug/ml 8260 Surrogate - Hewey			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120002-01	Surrogate Standard	2000	164585-27924	05-09-11C	08/16/11	500
B&J Brand		Purge & Trap MeOH		H46E44-00509	04/25/11	12/14/11	3500

5-09-11 RS

5-11-11
RS.

Volatile Standard Curve Preparation for 5mL Purge (8260 soil)-Neo

	Expiration Date:		05/12/11							
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	05-09-11W	05-09-11AA	05-09-11S	05-09-11U	05-09-11Z	05-09-11X	05-09-11T	05-09-11V	05-09-11Y
Code	ug/L	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11
05-11-11L	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
05-11-11M	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
05-11-11N	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
05-11-11O	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
05-11-11P	50	n/a	n/a	5	5	5	n/a	5	n/a	5
05-11-11Q	100	n/a	n/a	10	10	10	n/a	10	n/a	10
05-11-11R	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
05-09-11AB	w/P&T H2O
Exp:05-16-11	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

5-11-11
RS.

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-Chico

	Expiration Date:		05/12/11							
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	05-09-11J	05-09-11N	05-09-11F	05-09-1H	05-09-11M	05-09-11K	05-09-11G	05-09-11I	05-09-11L
Code	ug/L	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11
05-11-11S	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-11-11T	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-11-11U	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-11-11Y	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-11-11W	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-11-11X	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-11-11Y	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-11-11Z	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-11-11AA	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD	Final Vol
05-09-11D	w/P&T H2O
Exp:05-16-11	mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-12-11
RS

A-

Method 8260 Internal Standard Solution, 2,000 mg/L, 1 ml

o2si
Cat. No: 120302-03
Lot No: 153416
Exp: 11/24/2011
Storage: </= -10 Degrees C
Solvent: P/T Methanol
Description For Research Use Only
Opened: _____

Method 8260 Internal Standard
Lot #: 153416 - 27534
Rec: 10/12/10 MFR exp. 11/24/11

RS

500
500
500
2500

5-12-11
RS

B-

Fluorobenzene Solution, 2,000 mg/L, 1 ml
020132-02
Lot# 162971 Storage ≤6 Degrees C Expiry 8/12/13
Solv: P/T Methanol
R&D only. Not for human consumption. Made in the USA

Fluorobenzene
Lot #: 162971 - 27952
Rec: 12/15/10 MFR exp. 08/12/13

RS

C-

5-12-11
RS

Method 8260B Surrogate Solution, 2,000 mg/L, 1 ml
120002-01
Lot# 164585 Storage -10 Degrees C Expiry 10/12/13
Solv: P/T Methanol
R&D only. Not for human consumption. Made in the USA

Method 8260B Surrogate
Lot #: 164585 - 27930
Rec: 12/15/10 MFR exp. 10/12/13

RS

Injection Log

Directory: M:\CHICO\DATA\C110422\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0422C00T.D	1	20ug/ml BFB STD 04-15-11A	2uL	22 Apr 11 15:43
2	1	0422C05W.[	1	Vol Std 04-22-11@0.5ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 18:36
3	1	0422C06W.[	1	Vol Std 04-22-11@1.0ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 19:11
4	1	0422C07W.[	1	Vol Std 04-22-11@2.0ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 19:46
5	1	0422C08W.[	1	Vol Std 04-22-11@5.0ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 20:21
6	1	0422C09W.[	1	Vol Std 04-22-11@10ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 20:57
7	1	0422C10W.[	1	Vol Std 04-22-11@20ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 21:32
8	1	0422C11W.[	1	Vol Std 04-22-11@40ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 22:07
9	1	0422C12W.[	1	Vol Std 04-22-11@100ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 22:42
10	1	0422C13T.D	1	20ug/ml BFB STD 04-15-11A	2ul	22 Apr 11 23:53
11	1	0422C14W.[	1	Vol Std 4-22-11@20ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 1:03
12	1	0422C15W.[	1	Vol Std 4-22-11@50ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 1:38
13	1	0422C16W.[	1	Vol Std 4-22-11@100ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 2:13
14	1	0422C17W.[	1	Vol Std 4-22-11@300ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 2:48
15	1	0422C18W.[	1	Vol Std 4-22-11@600ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 3:23
16	1	0422C19W.[	1	Vol Std 4-22-11@800ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 3:58
17	1	0422C20W.[	1	Vol Std 4-22-11@1000ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 4:33
18	1	0422C25W.[	1	110422A LCS-1WC (SS)	Water 10ml w/IS&S: 04-12-1	23 Apr 11 7:28
19	1	0425C00T.D	1	20ug/ml BFB STD 04-15-11A	2uL	25 Apr 11 10:08
20	1	0425C01W.[	1	GAS 300 ug/L STD	Water 10ml w/IS&S: 04-12-1	25 Apr 11 10:41
21	1	0425C02W.[	1	110425A LCS-1WC	Water 10ml w/IS&S: 04-12-1	25 Apr 11 11:17
22	1	0425C06W.[	1	110425A BLK-1WC	Water 10ml w/IS&S: 04-12-1	25 Apr 11 14:13
23	1	0425C11W.[	1	AY36384W01	Water 10ml w/IS&S: 04-12-1	25 Apr 11 17:09
24	1	0425C12W.[	1	AY36385W01	Water 10ml w/IS&S: 04-12-1	25 Apr 11 17:45
25	1	0425C13W.[	1	AY36386W01	Water 10ml w/IS&S: 04-12-1	25 Apr 11 18:20
26	1	0425C14W.[	1	AY36388W01	Water 10ml w/IS&S: 04-12-1	25 Apr 11 18:55
27	1	0425C15W.[	1	AY36387W01	Water 10ml w/IS&S: 04-12-1	25 Apr 11 19:30
28	1	0425C16W.[	1	AY36384W234 MS-1WC	Water 10ml w/IS&S: 04-12-1	25 Apr 11 20:06
29	1	0425C17W.[	1	AY36384W234 MSD-1WC	Water 10ml w/IS&S: 04-12-1	25 Apr 11 20:41
30	1	0426C00T.D	1	20ug/ml BFB STD 04-15-11A	2uL	26 Apr 11 10:29
31	1	0426C01W.[	1	GAS 300 ug/L STD	Water 10ml w/IS&S: 04-12-1	26 Apr 11 11:00
32	1	0426C08W.[	1	AY36384W678 MS-1WC	Water 10ml w/IS&S: 04-12-1	26 Apr 11 15:42
33	1	0426C09W.[	1	AY36384W678 MSD-1WC	Water 10ml w/IS&S: 04-12-1	26 Apr 11 16:17

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	0.22 U	0.5	0.22	0.11	ug/L	04/27/11	04/28/11	#602D-110427A-AY36312

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)	250	234	93.6	80-120	04/27/11	04/28/11	#602D-110427A-AY36312

306

Comments: _____

_____

_____

Printed: 05/16/11 11:02:52 AM
APPL Standard LCS

Matrix Spike Recoveries

METALS

APPL ID: **110427W-36384 MS - 154608**

Sample ID: AY36384

Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	250	ND	227	215	90.8	86.0	5.4	20	80-120	04/27/11	04/28/11	04/27/11	04/28/11	154608	AY36384

Comments: _____

Printed: 05/16/11 11:02:58 AM

APPL MSD SCII

METALS
Sample Data

APPL, INC.

Metals Analysis

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

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

Sample ID: ES029

Sample Collection Date: 04/21/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 64484

APPL ID: AY36384

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22 U	0.5	0.22	0.11	ug/L	1	04/27/11	04/28/11

Printed: 05/16/11 11:05:43 AM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\066SMPL.D\066SMPL.D#
Date Acquired: Apr 28 2011 06:41 pm
Operator: SDM
Sample Name: AY36384W28
Misc Info: 110427A-3015
Vial Number: 3305
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	-0.15 ug/l	-0.17	0.45	1000	
11 B	26.91 ug/l	29.90	1.15	1000	
23 Na	241500.00 ug/l	268306.50	0.90	25000	>Cal
24 Mg	100000.00 ug/l	111100.00	0.20	50000	>Cal
27 Al	20.38 ug/l	22.64	7.68	20000	
39 K	6753.00 ug/l	7502.58	0.33	20000	
44 Ca	140800.00 ug/l	156428.80	0.15	50000	>Cal
47 Ti	0.74 ug/l	0.82	35.89	1000	
51 V	0.81 ug/l	0.90	4.20	1000	
52 Cr	14.31 ug/l	15.90	1.45	1000	
55 Mn	2.49 ug/l	2.77	6.54	1000	
56 Fe	9.35 ug/l	10.39	1.88	20000	
59 Co	2.44 ug/l	2.71	3.26	1000	
60 Ni	15.33 ug/l	17.03	2.02	1000	
63 Cu	1.00 ug/l	1.11	1.81	1000	
65 Cu	0.97 ug/l	1.07	4.48	1000	
66 Zn	17.20 ug/l	19.11	1.54	1000	
75 As	0.35 ug/l	0.39	3.76	1000	
78 Se	2.72 ug/l	3.02	3.30	1000	
78 Se	3.02 ug/l	3.35	8.68	1000	
88 Sr	2724.00 ug/l	3026.36	1.56	1000	>Cal
88 Sr	2799.00 ug/l	3109.69	0.51	1000	>Cal
95 Mo	1.66 ug/l	1.85	2.92	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.13 ug/l	0.14	7.01	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.01 ug/l	0.01	31.98	1000	
118 Sn	1.53 ug/l	1.70	4.23	1000	
121 Sb	0.29 ug/l	0.32	7.06	1000	
137 Ba	120.40 ug/l	133.76	0.18	1000	
205 Tl	0.02 ug/l	0.02	31.87	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	-0.16 ug/l	-0.18	3.99	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1516800.40	1.09	1867730.90	81.2	70 - 120	
45 Sc	812143.06	5.38	860905.50	94.3	70 - 120	
45 Sc	29657.42	2.11	30466.40	97.3	70 - 120	
45 Sc	1444468.00	1.35	1514635.40	95.4	70 - 120	
72 Ge	168447.28	0.72	175233.81	96.1	70 - 120	
72 Ge	13293.65	2.78	13286.95	100.1	70 - 120	
72 Ge	248628.13	0.81	261657.25	95.0	70 - 120	
115 In	1374819.00	1.10	1427636.50	96.3	70 - 120	
159 Tb	1704882.10	0.92	1715789.30	99.4	70 - 120	
165 Ho	1678639.40	0.98	1678833.30	100.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

Metals Analysis

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES028

APPL ID: AY36385

Sample Collection Date: 04/21/11

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22 U	0.5	0.22	0.11	ug/L	1	04/27/11	04/28/11

Printed: 05/16/11 11:05:43 AM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\073SMPL.D\073SMPL.D#
Date Acquired: Apr 28 2011 07:24 pm
Operator: SDM
Sample Name: AY36385W08
Misc Info: 110427A-3015
Vial Number: 3308
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	-0.15 ug/l	-0.16	1.25	1000	
11 B	34.38 ug/l	38.20	0.77	1000	
23 Na	42400.00 ug/l	47106.40	1.74	25000	>Cal
24 Mg	12700.00 ug/l	14109.70	1.99	50000	
27 Al	33.75 ug/l	37.50	5.47	20000	
39 K	831.30 ug/l	923.57	1.86	20000	
44 Ca	11420.00 ug/l	12687.62	1.97	50000	
47 Ti	1.32 ug/l	1.46	25.09	1000	
51 V	0.09 ug/l	0.10	10.06	1000	
52 Cr	0.70 ug/l	0.78	5.41	1000	
55 Mn	508.80 ug/l	565.28	1.12	1000	
56 Fe	3848.00 ug/l	4275.13	3.03	20000	
59 Co	0.11 ug/l	0.13	12.21	1000	
60 Ni	3.33 ug/l	3.70	2.92	1000	
63 Cu	1.47 ug/l	1.63	2.92	1000	
65 Cu	1.53 ug/l	1.70	0.22	1000	
66 Zn	39.64 ug/l	44.04	2.47	1000	
75 As	0.52 ug/l	0.58	6.30	1000	
78 Se	0.34 ug/l	0.38	1.67	1000	
78 Se	0.27 ug/l	0.30	150.18	1000	
88 Sr	103.70 ug/l	115.21	0.79	1000	
88 Sr	104.50 ug/l	116.10	0.74	1000	
95 Mo	0.80 ug/l	0.89	4.27	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.00 ug/l	0.00	99.72	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.01 ug/l	0.01	117.55	1000	
118 Sn	2.00 ug/l	2.23	2.28	1000	
121 Sb	0.35 ug/l	0.39	6.94	1000	
137 Ba	2.32 ug/l	2.57	6.36	1000	
205 Tl	0.35 ug/l	0.38	3.71	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	0.03 ug/l	0.03	18.12	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1602641.00	0.89	1867730.90	85.8	70 - 120	
45 Sc	893726.00	1.40	860905.50	103.8	70 - 120	
45 Sc	31849.39	2.06	30466.40	104.5	70 - 120	
45 Sc	1574979.50	0.22	1514635.40	104.0	70 - 120	
72 Ge	183765.34	0.58	175233.81	104.9	70 - 120	
72 Ge	14475.90	1.80	13286.95	108.9	70 - 120	
72 Ge	264325.47	0.58	261657.25	101.0	70 - 120	
115 In	1479515.10	2.60	1427636.50	103.6	70 - 120	
159 Tb	1783460.50	0.90	1715789.30	103.9	70 - 120	
165 Ho	1753512.30	1.13	1678833.30	104.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

Metals Analysis

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

Attn: Vilma Dupra

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64484

Sample ID: ES031

APPL ID: AY36387

Sample Collection Date: 04/21/11

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22 U	0.5	0.22	0.11	ug/L	1	04/27/11	04/28/11

Printed: 05/16/11 11:05:43 AM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\074SMPL.D\074SMPL.D#
Date Acquired: Apr 28 2011 07:30 pm
Operator: SDM
Sample Name: AY36387W08
Misc Info: 110427A-3015
Vial Number: 3309
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	-0.15 ug/l	-0.17	1.70	1000	
11 B	24.08 ug/l	26.75	1.80	1000	
23 Na	234000.00 ug/l	259974.00	0.69	25000	>Cal
24 Mg	98410.00 ug/l	109333.51	0.65	50000	>Cal
27 Al	16.48 ug/l	18.31	2.82	20000	
39 K	6706.00 ug/l	7450.37	1.04	20000	
44 Ca	134300.00 ug/l	149207.30	1.18	50000	>Cal
47 Ti	0.83 ug/l	0.92	7.00	1000	
51 V	0.44 ug/l	0.49	1.61	1000	
52 Cr	14.09 ug/l	15.65	1.44	1000	
55 Mn	9.65 ug/l	10.72	1.45	1000	
56 Fe	19.79 ug/l	21.99	3.71	20000	
59 Co	2.77 ug/l	3.07	2.63	1000	
60 Ni	11.92 ug/l	13.24	0.77	1000	
63 Cu	0.94 ug/l	1.05	1.93	1000	
65 Cu	0.97 ug/l	1.08	5.87	1000	
66 Zn	14.73 ug/l	16.37	0.38	1000	
75 As	0.30 ug/l	0.34	23.58	1000	
78 Se	2.73 ug/l	3.04	2.51	1000	
78 Se	3.05 ug/l	3.39	8.56	1000	
88 Sr	2576.00 ug/l	2861.94	1.52	1000	>Cal
88 Sr	2655.00 ug/l	2949.71	0.27	1000	>Cal
95 Mo	1.77 ug/l	1.96	3.20	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.00 ug/l	0.01	115.68	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.02 ug/l	0.02	56.66	1000	
118 Sn	0.86 ug/l	0.95	5.63	1000	
121 Sb	0.32 ug/l	0.36	7.34	1000	
137 Ba	118.60 ug/l	131.76	1.13	1000	
205 Tl	0.16 ug/l	0.17	3.07	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	-0.15 ug/l	-0.17	2.67	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1561363.40	0.76	1867730.90	83.6	70 - 120	
45 Sc	828448.81	0.63	860905.50	96.2	70 - 120	
45 Sc	31241.75	1.32	30466.40	102.5	70 - 120	
45 Sc	1466402.00	1.68	1514635.40	96.8	70 - 120	
72 Ge	175474.58	1.08	175233.81	100.1	70 - 120	
72 Ge	14048.80	2.05	13286.95	105.7	70 - 120	
72 Ge	257772.92	1.00	261657.25	98.5	70 - 120	
115 In	1396770.90	1.64	1427636.50	97.8	70 - 120	
159 Tb	1702916.10	1.27	1715789.30	99.2	70 - 120	
165 Ho	1662208.10	0.77	1678833.30	99.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

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: 64484 SDG: 64484
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 04/28/11 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 13:02	%R(1)	True CCV1	Found 13:27	%R(1)	True CCV1	Found 14:33	%R(1)	
Lead (Pb)	100	99.03	99.0	50	50.47	101	50	49.15	98.3	P

(1) Control Limits: Metals 90-110

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.
ARF No: 64484 SDG: 64484
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 04/28/11 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 13:02	%R(1)	True CCV1	Found 16:10	%R(1)	True CCV1	Found 17:35	%R(1)	
Lead (Pb)	100	99.03	99.0	50	49.06	98.1	50	49.2	98.4	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: 64484 SDG: 64484
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 04/28/11 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 13:02	%R(1)	True CCV1	Found 18:59	%R(1)	True CCV1	Found 20:24	%R(1)	
Lead (Pb)	100	99.03	99.0	50	48.28	96.6	50	47.01	94.0	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.: 64484 SDG: 64484

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 04/28/11

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	13:51		13:57		14:57		16:22		15:09				
Lead (Pb)	.20	U	.20	U	.20	U	.20	U	.20	U	P		

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 64484 SDG: 64484

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 04/28/11

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	13:51		17:47		19:12		20:36		15:09		
Lead (Pb)	.20	U	.20	U	.20	U	.20	U	.20	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Environet, Inc.
ARF No.:	64484	SDG:	64484
ICP ID Number:	Optimus	ICS Source:	Environmental Express

Analysis Date: 04/28/11 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 14:15	Sol AB 14:21	%R(1)
Lead (Pb)		500	3.11	462.6	92.5

(1) Control Limits: Metals 80-120

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\005CAL
Date Acquired: Apr 28 2011 12:32 pm
Operator: SDM
Sample Name: Calibration Blank
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 12:29 pm
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1867731.00	A	18890.00	1.01
7	(Li)	119957.10	P	415.50	0.35
9	Be	1017.85	P	34.21	3.36
11	B	2301.37	P	90.10	3.92
23	Na	26191.44	P	21.62	0.08
24	Mg	617.81	P	61.95	10.03
27	Al	107.78	P	22.20	20.60
39	K	13512.20	P	352.00	2.61
44	Ca	106.22	P	8.88	8.36
45	Sc	860905.50	M	46790.00	5.44
45	Sc	30466.40	P	238.80	0.78
45	Sc	1514635.00	A	11030.00	0.73
47	Ti	1.33	P	2.31	173.17
51	V	148.45	P	20.06	13.51
52	Cr	78.22	P	3.36	4.29
55	Mn	46.67	P	6.11	13.09
56	Fe	5777.77	P	98.06	1.70
59	Co	511.57	P	10.78	2.11
60	Ni	39.11	P	6.84	17.49
63	Cu	250.67	P	10.41	4.15
65	Cu	128.89	P	2.04	1.58
66	Zn	220.00	P	16.17	7.35
72	Ge	175233.80	P	1594.00	0.91
72	Ge	13286.95	P	144.30	1.09
72	Ge	261657.20	P	1089.00	0.42
75	As	7.44	P	1.95	26.23
78	Se	19.22	P	2.04	10.60
78	Se	2.56	P	1.02	39.84
88	Sr	30.00	P	5.77	19.25
88	Sr	754.49	P	38.93	5.16
95	Mo	373.35	P	56.96	15.26
106	(Cd)	10.00	P	8.82	88.19
107	Ag	486.69	P	34.80	7.15
108	(Cd)	13.33	P	5.77	43.30
111	Cd	31.70	P	19.70	62.14
115	In	1427636.00	A	5708.00	0.40
118	Sn	1671.27	P	67.53	4.04
121	Sb	653.37	P	29.06	4.45
137	Ba	124.45	P	5.09	4.09
159	Tb	1715789.00	A	14820.00	0.86
165	Ho	1678833.00	A	4567.00	0.27
205	Tl	206.68	P	41.77	20.21
206	(Pb)	1101.20	P	27.76	2.52
207	(Pb)	993.41	P	26.04	2.62
208	Pb	4327.10	P	66.93	1.55

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\006CALS.D\006CALS.D#
Date Acquired: Apr 28 2011 12:38 pm
Operator: SDM
Sample Name: 110425 Standard 1
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 12:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1853922.00	A	3169.00	0.17	0.0000
7 (Li)	119171.60	P	624.90	0.52	0.0000
9 Be	708.93	P	50.15	7.07	0.0000
11 B	2380.27	P	166.80	7.01	0.0000
23 Na	22273.91	P	370.90	1.67	0.0000
24 Mg	1217.87	P	63.37	5.20	0.0000
27 Al	162.23	P	8.39	5.17	0.0000
39 K	13592.23	P	519.60	3.82	0.0000
44 Ca	120.38	P	29.89	24.83	0.0000
45 Sc	873299.31	P	4597.00	0.53	0.0000
45 Sc	30437.79	P	342.80	1.13	0.0000
45 Sc	1501345.00	A	8294.00	0.55	0.0000
47 Ti	4.00	P	2.31	57.72	0.0000
51 V	278.67	P	17.44	6.26	0.0000
52 Cr	197.34	P	10.91	5.53	0.0000
55 Mn	94.22	P	14.87	15.78	0.0000
56 Fe	7328.15	P	115.60	1.58	0.0000
59 Co	401.79	P	26.07	6.49	0.0000
60 Ni	114.22	P	6.01	5.26	0.0000
63 Cu	412.46	P	37.53	9.10	0.0000
65 Cu	197.78	P	10.69	5.40	0.0000
66 Zn	269.78	P	31.28	11.59	0.0000
72 Ge	175455.30	P	94.44	0.05	0.0000
72 Ge	13261.75	P	141.80	1.07	0.0000
72 Ge	260743.80	P	270.80	0.10	0.0000
75 As	19.44	P	1.84	9.44	0.0000
78 Se	40.56	P	2.59	6.38	0.0000
78 Se	3.44	P	1.35	39.11	0.0000
88 Sr	48.89	P	8.39	17.16	0.0000
88 Sr	1935.76	P	26.95	1.39	0.0000
95 Mo	598.92	P	70.27	11.73	0.0000
106 (Cd)	26.67	P	6.67	25.00	0.0000
107 Ag	920.06	P	38.45	4.18	0.0000
108 (Cd)	25.56	P	5.09	19.92	0.0000
111 Cd	197.13	P	33.14	16.81	0.0000
115 In	1407898.00	A	4045.00	0.29	0.0000
118 Sn	1920.20	P	49.33	2.57	0.0000
121 Sb	1247.88	P	76.77	6.15	0.0000
137 Ba	335.57	P	53.16	15.84	0.0000
159 Tb	1700246.00	A	19040.00	1.12	0.0000
165 Ho	1661506.00	A	8821.00	0.53	0.0000
205 Tl	1310.12	P	43.34	3.31	0.0000
206 (Pb)	871.17	P	82.22	9.44	0.0000
207 (Pb)	735.60	P	25.02	3.40	0.0000
208 Pb	3412.52	P	25.02	0.73	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1853922.30	0.17	1867730.90	99.3	70 -	120	
45 Sc	873299.31	0.53	860905.50	101.4	70 -	120	
45 Sc	30437.79	1.13	30466.40	99.9	70 -	120	
45 Sc	1501345.30	0.55	1514635.40	99.1	70 -	120	
72 Ge	175455.34	0.05	175233.81	100.1	70 -	120	
72 Ge	13261.75	1.07	13286.95	99.8	70 -	120	
72 Ge	260743.83	0.10	261657.25	99.7	70 -	120	
115 In	1407897.60	0.29	1427636.50	98.6	70 -	120	
159 Tb	1700246.10	1.12	1715789.30	99.1	70 -	120	
165 Ho	1661506.00	0.53	1678833.30	99.0	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\007CALS.D\007CALS.D#
Date Acquired: Apr 28 2011 12:44 pm
Operator: SDM
Sample Name: 110425 Standard 2
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 12:42 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1850543.00	A	11830.00	0.64	0.0000
7 (Li)	119159.60	P	409.70	0.34	-1.0000
9 Be	6542.75	P	172.40	2.64	-1.0000
11 B	5776.86	P	186.00	3.22	1.0000
23 Na	28833.03	P	446.30	1.55	-1.0000
24 Mg	9501.13	P	259.50	2.73	1.0000
27 Al	1352.33	P	102.90	7.61	1.0000
39 K	15431.91	P	289.00	1.87	1.0000
44 Ca	327.74	P	23.50	7.17	1.0000
45 Sc	846486.00	M	36340.00	4.29	0.0000
45 Sc	30351.02	P	598.30	1.97	0.0000
45 Sc	1513549.00	A	13410.00	0.89	0.0000
47 Ti	37.78	P	7.70	20.38	1.0000
51 V	1204.51	P	50.77	4.22	1.0000
52 Cr	1404.53	P	10.78	0.77	1.0000
55 Mn	614.24	P	44.31	7.21	1.0000
56 Fe	25468.58	P	290.90	1.14	1.0000
59 Co	2331.77	P	9.83	0.42	-1.0000
60 Ni	686.69	P	28.00	4.08	1.0000
63 Cu	1913.93	P	10.78	0.56	1.0000
65 Cu	948.04	P	37.05	3.91	1.0000
66 Zn	401.79	P	17.91	4.46	1.0000
72 Ge	175156.00	P	341.20	0.19	0.0000
72 Ge	13224.68	P	233.90	1.77	0.0000
72 Ge	262379.19	P	905.60	0.35	0.0000
75 As	111.33	P	8.72	7.83	1.0000
78 Se	221.22	P	16.28	7.36	1.0000
78 Se	7.33	P	1.20	16.39	1.0000
88 Sr	447.80	P	41.41	9.25	1.0000
88 Sr	16695.82	P	373.10	2.23	1.0000
95 Mo	2935.96	P	60.51	2.06	1.0000
106 (Cd)	190.01	P	20.28	10.67	1.0000
107 Ag	4313.01	P	71.68	1.66	1.0000
108 (Cd)	136.67	P	20.28	14.84	1.0000
111 Cd	1524.33	P	54.59	3.58	1.0000
115 In	1412091.00	A	5562.00	0.39	0.0000
118 Sn	5860.31	P	159.50	2.72	1.0000
121 Sb	5831.44	P	172.50	2.96	1.0000
137 Ba	2222.49	P	110.80	4.99	1.0000
159 Tb	1728548.00	A	22220.00	1.29	0.0000
165 Ho	1685698.00	A	20620.00	1.22	0.0000
205 Tl	11493.17	P	37.93	0.33	1.0000
206 (Pb)	4384.22	P	193.40	4.41	-1.0000
207 (Pb)	3770.67	P	84.15	2.23	-1.0000
208 Pb	17270.56	P	222.50	1.29	-1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1850543.50	0.64	1867730.90	99.1	70 -	120	
45 Sc	846486.00	4.29	860905.50	98.3	70 -	120	
45 Sc	30351.02	1.97	30466.40	99.6	70 -	120	
45 Sc	1513549.10	0.89	1514635.40	99.9	70 -	120	
72 Ge	175156.00	0.19	175233.81	100.0	70 -	120	
72 Ge	13224.68	1.77	13286.95	99.5	70 -	120	
72 Ge	262379.25	0.35	261657.25	100.3	70 -	120	
115 In	1412091.50	0.39	1427636.50	98.9	70 -	120	
159 Tb	1728548.10	1.29	1715789.30	100.7	70 -	120	
165 Ho	1685698.40	1.22	1678833.30	100.4	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\008CALS.D\008CALS.D#
Date Acquired: Apr 28 2011 12:50 pm
Operator: SDM
Sample Name: 110425 Standard 3
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 12:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1844699.00	A	3984.00	0.22	0.0000
7 (Li)	118336.00	P	511.60	0.43	-0.5872
9 Be	318836.59	P	778.50	0.24	0.9906
11 B	191311.41	P	11640.00	6.08	0.9978
23 Na	509281.50	P	6941.00	1.36	0.7562
24 Mg	476105.00	P	6132.00	1.29	0.9995
27 Al	61747.73	P	366.40	0.59	0.9986
39 K	110076.50	P	324.00	0.29	0.9988
44 Ca	11402.33	P	166.50	1.46	0.9994
45 Sc	853502.69	M	39610.00	4.64	0.0000
45 Sc	30874.26	P	384.90	1.25	0.0000
45 Sc	1522904.00	A	12070.00	0.79	0.0000
47 Ti	1570.33	P	58.01	3.69	0.9997
51 V	52906.24	P	526.50	1.00	0.9998
52 Cr	68071.52	P	935.80	1.37	1.0000
55 Mn	29729.04	P	343.10	1.15	0.9999
56 Fe	981726.50	A	9391.00	0.96	0.9998
59 Co	109450.30	P	430.90	0.39	0.9900
60 Ni	31232.71	P	341.50	1.09	0.9999
63 Cu	84566.39	P	418.40	0.49	1.0000
65 Cu	41382.51	P	560.20	1.35	0.9999
66 Zn	9752.28	P	124.50	1.28	0.9842
72 Ge	177098.00	P	968.90	0.55	0.0000
72 Ge	13554.23	P	162.90	1.20	0.0000
72 Ge	267429.91	P	621.40	0.23	0.0000
75 As	5177.49	P	58.61	1.13	0.9999
78 Se	10361.51	P	107.80	1.04	1.0000
78 Se	280.00	P	11.41	4.07	0.9961
88 Sr	22032.08	P	162.10	0.74	0.9987
88 Sr	838789.69	P	7444.00	0.89	0.9997
95 Mo	144921.80	P	984.90	0.68	0.9999
106 (Cd)	7438.87	P	117.30	1.58	1.0000
107 Ag	189083.20	P	1878.00	0.99	0.9999
108 (Cd)	5374.54	P	65.69	1.22	1.0000
111 Cd	79459.08	P	460.00	0.58	0.9999
115 In	1435675.00	A	18520.00	1.29	0.0000
118 Sn	223766.50	P	1777.00	0.79	0.9995
121 Sb	262911.00	P	5553.00	2.11	0.9999
137 Ba	107800.10	P	619.50	0.57	1.0000
159 Tb	1740937.00	A	8296.00	0.48	0.0000
165 Ho	1696786.00	A	21550.00	1.27	0.0000
205 Tl	573408.13	P	3454.00	0.60	1.0000
206 (Pb)	195494.20	P	1080.00	0.55	0.9889
207 (Pb)	172807.70	P	1055.00	0.61	0.9860
208 Pb	787205.63	P	3813.00	0.48	0.9890

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1844698.60	0.22	1867730.90	98.8	70 -	120	
45 Sc	853502.69	4.64	860905.50	99.1	70 -	120	
45 Sc	30874.26	1.25	30466.40	101.3	70 -	120	
45 Sc	1522904.30	0.79	1514635.40	100.5	70 -	120	
72 Ge	177098.03	0.55	175233.81	101.1	70 -	120	
72 Ge	13554.23	1.20	13286.95	102.0	70 -	120	
72 Ge	267429.91	0.23	261657.25	102.2	70 -	120	
115 In	1435675.50	1.29	1427636.50	100.6	70 -	120	
159 Tb	1740936.90	0.48	1715789.30	101.5	70 -	120	
165 Ho	1696785.60	1.27	1678833.30	101.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\009CALS.D\009CALS.D#
Date Acquired: Apr 28 2011 12:56 pm
Operator: SDM
Sample Name: 110425 Standard 4
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 12:54 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1809553.00	A	16560.00	0.92	0.0000
7 (Li)	116402.70	P	831.20	0.71	-0.8318
9 Be	635028.38	P	4347.00	0.68	1.0000
11 B	368789.31	P	1332.00	0.36	1.0000
23 Na	983259.88	A	9271.00	0.94	0.9999
24 Mg	899436.13	A	18180.00	2.02	1.0000
27 Al	124578.60	P	741.50	0.60	1.0000
39 K	207304.91	P	4028.00	1.94	1.0000
44 Ca	22864.75	P	263.10	1.15	1.0000
45 Sc	836857.13	M	35060.00	4.19	0.0000
45 Sc	31377.93	P	494.90	1.58	0.0000
45 Sc	1539542.00	A	3501.00	0.23	0.0000
47 Ti	3182.17	P	88.99	2.80	1.0000
51 V	105930.00	P	1668.00	1.57	1.0000
52 Cr	136257.09	P	911.10	0.67	1.0000
55 Mn	59292.66	P	945.60	1.59	1.0000
56 Fe	1965177.00	A	37790.00	1.92	1.0000
59 Co	217704.59	P	2762.00	1.27	1.0000
60 Ni	62586.68	P	271.60	0.43	1.0000
63 Cu	167787.50	P	2278.00	1.36	1.0000
65 Cu	81888.98	P	702.10	0.86	1.0000
66 Zn	19523.55	P	219.50	1.12	1.0000
72 Ge	177351.59	P	250.60	0.14	0.0000
72 Ge	13832.64	P	93.11	0.67	0.0000
72 Ge	267105.41	P	931.30	0.35	0.0000
75 As	10404.31	P	118.50	1.14	1.0000
78 Se	20739.46	P	129.80	0.63	1.0000
78 Se	555.35	P	16.00	2.88	1.0000
88 Sr	44093.45	P	538.90	1.22	1.0000
88 Sr	1569917.00	A	14970.00	0.95	1.0000
95 Mo	291063.91	P	4460.00	1.53	1.0000
106 (Cd)	14325.52	P	95.92	0.67	1.0000
107 Ag	376890.81	P	2807.00	0.74	1.0000
108 (Cd)	10795.59	P	60.82	0.56	1.0000
111 Cd	158157.41	P	1298.00	0.82	1.0000
115 In	1419224.00	A	21130.00	1.49	0.0000
118 Sn	443893.41	P	3817.00	0.86	1.0000
121 Sb	562587.31	P	4650.00	0.83	1.0000
137 Ba	213360.20	P	3751.00	1.76	1.0000
159 Tb	1756807.00	A	4937.00	0.28	0.0000
165 Ho	1723871.00	A	27070.00	1.57	0.0000
205 Tl	1081656.00	A	10920.00	1.01	1.0000
206 (Pb)	388542.41	P	5888.00	1.52	1.0000
207 (Pb)	343826.09	P	2987.00	0.87	1.0000
208 Pb	1559232.00	P	13260.00	0.85	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1809553.30	0.92	1867730.90	96.9	70 - 120	
45 Sc	836857.13	4.19	860905.50	97.2	70 - 120	
45 Sc	31377.93	1.58	30466.40	103.0	70 - 120	
45 Sc	1539542.10	0.23	1514635.40	101.6	70 - 120	
72 Ge	177351.59	0.14	175233.81	101.2	70 - 120	
72 Ge	13832.64	0.67	13286.95	104.1	70 - 120	
72 Ge	267105.34	0.35	261657.25	102.1	70 - 120	
115 In	1419224.10	1.49	1427636.50	99.4	70 - 120	
159 Tb	1756807.00	0.28	1715789.30	102.4	70 - 120	
165 Ho	1723870.80	1.57	1678833.30	102.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\010_QCS.D\010_QCS.D#
Date Acquired: Apr 28 2011 01:02 pm
Operator: SDM
Sample Name: ICV 110425
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	98.16 ug/l	0.96	100.00	90 - 110	
11 B	96.84 ug/l	0.82	100.00	90 - 110	
23 Na	2447.00 ug/l	0.40	2500.00	90 - 110	
24 Mg	2584.00 ug/l	0.42	2500.00	90 - 110	
27 Al	2444.00 ug/l	0.74	2500.00	90 - 110	
39 K	2439.00 ug/l	1.33	2500.00	90 - 110	
44 Ca	2645.00 ug/l	1.22	2500.00	90 - 110	
47 Ti	98.24 ug/l	1.65	100.00	90 - 110	
51 V	97.27 ug/l	1.50	100.00	90 - 110	
52 Cr	97.68 ug/l	0.79	100.00	90 - 110	
55 Mn	97.93 ug/l	0.80	100.00	90 - 110	
56 Fe	2450.00 ug/l	1.13	2500.00	90 - 110	
59 Co	97.94 ug/l	0.42	100.00	90 - 110	
60 Ni	98.08 ug/l	1.07	100.00	90 - 110	
63 Cu	98.08 ug/l	0.56	100.00	90 - 110	
65 Cu	97.33 ug/l	0.90	100.00	90 - 110	
66 Zn	96.86 ug/l	1.15	100.00	90 - 110	
75 As	95.09 ug/l	0.61	100.00	90 - 110	
78 Se	97.73 ug/l	1.45	100.00	90 - 110	
78 Se	95.88 ug/l	3.24	100.00	90 - 110	
88 Sr	96.24 ug/l	0.92	100.00	90 - 110	
88 Sr	97.06 ug/l	1.55	100.00	90 - 110	
95 Mo	99.32 ug/l	0.58	100.00	90 - 110	
106 (Cd)	-------- ug/l	--------	100.00	90 - 110	
107 Ag	48.66 ug/l	1.54	50.00	90 - 110	
108 (Cd)	-------- ug/l	--------	100.00	90 - 110	
111 Cd	98.03 ug/l	1.21	100.00	90 - 110	
118 Sn	49.39 ug/l	0.40	50.00	90 - 110	
121 Sb	109.10 ug/l	1.35	100.00	90 - 110	
137 Ba	97.62 ug/l	2.64	100.00	90 - 110	
205 Tl	102.50 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	99.03 ug/l	0.40	100.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1822003.30	1.00	1867730.90	97.6	70 - 120	
45 Sc	808500.25	1.41	860905.50	93.9	70 - 120	
45 Sc	31024.98	1.75	30466.40	101.8	70 - 120	
45 Sc	1515847.80	0.94	1514635.40	100.1	70 - 120	
72 Ge	177232.61	0.60	175233.81	101.1	70 - 120	
72 Ge	13746.27	1.23	13286.95	103.5	70 - 120	
72 Ge	264766.00	0.30	261657.25	101.2	70 - 120	
115 In	1416083.00	1.15	1427636.50	99.2	70 - 120	
159 Tb	1743101.60	0.66	1715789.30	101.6	70 - 120	
165 Ho	1712572.80	0.85	1678833.30	102.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\014_CCV.D\014_CCV.D#
Date Acquired: Apr 28 2011 01:27 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	49.87	ug/l	0.94	50.00	90 -	110	
11 B	49.21	ug/l	1.99	50.00	90 -	110	
23 Na	1236.00	ug/l	0.54	1250.00	90 -	110	
24 Mg	2601.00	ug/l	0.39	2500.00	90 -	110	
27 Al	1007.00	ug/l	0.88	1000.00	90 -	110	
39 K	1002.00	ug/l	0.64	1000.00	90 -	110	
44 Ca	2489.00	ug/l	2.16	2500.00	90 -	110	
47 Ti	50.08	ug/l	0.52	50.00	90 -	110	
51 V	49.07	ug/l	0.98	50.00	90 -	110	
52 Cr	49.78	ug/l	0.36	50.00	90 -	110	
55 Mn	49.69	ug/l	1.03	50.00	90 -	110	
56 Fe	994.10	ug/l	1.30	1000.00	90 -	110	
59 Co	49.30	ug/l	0.32	50.00	90 -	110	
60 Ni	50.06	ug/l	0.63	50.00	90 -	110	
63 Cu	49.96	ug/l	0.09	50.00	90 -	110	
65 Cu	49.57	ug/l	0.41	50.00	90 -	110	
66 Zn	49.35	ug/l	2.28	50.00	90 -	110	
75 As	49.78	ug/l	0.86	50.00	90 -	110	
78 Se	50.20	ug/l	2.73	50.00	90 -	110	
78 Se	50.80	ug/l	2.40	50.00	90 -	110	
88 Sr	49.55	ug/l	2.65	50.00	90 -	110	
88 Sr	52.39	ug/l	0.85	50.00	90 -	110	
95 Mo	49.94	ug/l	1.78	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	24.48	ug/l	0.14	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	49.84	ug/l	0.32	50.00	90 -	110	
118 Sn	49.58	ug/l	0.96	50.00	90 -	110	
121 Sb	47.50	ug/l	1.37	50.00	90 -	110	
137 Ba	49.40	ug/l	0.51	50.00	90 -	110	
205 Tl	52.61	ug/l	1.16	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	50.47	ug/l	1.38	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1853653.10	0.41	1867730.90	99.2	70 -	120	
45 Sc	834975.19	6.03	860905.50	97.0	70 -	120	
45 Sc	31869.01	1.31	30466.40	104.6	70 -	120	
45 Sc	1541665.60	1.20	1514635.40	101.8	70 -	120	
72 Ge	175149.42	3.52	175233.81	100.0	70 -	120	
72 Ge	13957.60	0.93	13286.95	105.0	70 -	120	
72 Ge	269778.50	0.64	261657.25	103.1	70 -	120	
115 In	1449270.90	0.54	1427636.50	101.5	70 -	120	
159 Tb	1770128.60	0.95	1715789.30	103.2	70 -	120	
165 Ho	1737142.10	0.19	1678833.30	103.5	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\018_CCB.D\018_CCB.D#
Date Acquired: Apr 28 2011 01:51 pm
Operator: SDM
Sample Name: ICB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.15 ug/l	1.38	0.12	
11 B	-0.12 ug/l	9.86	15.00	
23 Na	-37.75 ug/l	2.29	77.10	
24 Mg	-1.44 ug/l	4.71	7.50	
27 Al	-1.02 ug/l	14.69	3.96	
39 K	-17.41 ug/l	24.57	19.20	
44 Ca	-12.21 ug/l	23.01	90.00	
47 Ti	-0.03 ug/l	76.12	0.78	
51 V	-0.11 ug/l	2.57	0.21	
52 Cr	-0.02 ug/l	19.77	0.12	
55 Mn	-0.02 ug/l	44.65	0.18	
56 Fe	-5.00 ug/l	0.87	40.80	
59 Co	-0.21 ug/l	3.52	0.09	
60 Ni	-0.02 ug/l	36.40	0.48	
63 Cu	-0.09 ug/l	6.43	0.39	
65 Cu	-0.11 ug/l	5.29	0.39	
66 Zn	-0.24 ug/l	6.81	6.90	
75 As	-0.02 ug/l	15.60	0.27	
78 Se	-0.02 ug/l	31.27	0.30	
78 Se	-0.23 ug/l	36.24	0.30	
88 Sr	-0.02 ug/l	156.76	0.03	
88 Sr	-0.02 ug/l	9.01	0.03	
95 Mo	0.00 ug/l	307.05	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	55550.00	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	-0.01 ug/l	59.71	0.06	
118 Sn	-0.24 ug/l	3.03	0.30	
121 Sb	0.00 ug/l	296.99	0.03	
137 Ba	-0.02 ug/l	9.70	0.12	
205 Tl	0.00 ug/l	63.07	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.23 ug/l	1.99	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1608253.60	1.03	1867730.90	86.1	70 - 120	
45 Sc	841190.69	0.30	860905.50	97.7	70 - 120	
45 Sc	32932.06	0.61	30466.40	108.1	70 - 120	
45 Sc	1518274.10	4.26	1514635.40	100.2	70 - 120	
72 Ge	176629.92	0.79	175233.81	100.8	70 - 120	
72 Ge	14494.04	1.66	13286.95	109.1	70 - 120	
72 Ge	268766.75	2.45	261657.25	102.7	70 - 120	
115 In	1483253.90	2.35	1427636.50	103.9	70 - 120	
159 Tb	1801357.80	4.43	1715789.30	105.0	70 - 120	
165 Ho	1755795.50	4.45	1678833.30	104.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\019_CCB.D\019_CCB.D#
Date Acquired: Apr 28 2011 01:57 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.15 ug/l	1.64	0.12	
11 B	-0.14 ug/l	37.61	15.00	
23 Na	-38.54 ug/l	12.72	77.10	
24 Mg	-2.00 ug/l	5.02	7.50	
27 Al	-0.99 ug/l	30.92	3.96	
39 K	-17.34 ug/l	112.46	19.20	
44 Ca	-11.76 ug/l	30.75	90.00	
47 Ti	-0.01 ug/l	175.64	0.78	
51 V	-0.11 ug/l	2.96	0.21	
52 Cr	-0.03 ug/l	14.53	0.12	
55 Mn	-0.04 ug/l	20.43	0.18	
56 Fe	-5.04 ug/l	0.38	40.80	
59 Co	-0.21 ug/l	2.26	0.09	
60 Ni	-0.03 ug/l	14.11	0.48	
63 Cu	-0.10 ug/l	4.49	0.39	
65 Cu	-0.11 ug/l	3.84	0.39	
66 Zn	-0.18 ug/l	6.84	6.90	
75 As	-0.02 ug/l	90.97	0.27	
78 Se	-0.02 ug/l	94.02	0.30	
78 Se	-0.11 ug/l	42.71	0.30	
88 Sr	-0.02 ug/l	8.55	0.03	
88 Sr	-0.02 ug/l	10.19	0.03	
95 Mo	-0.01 ug/l	73.64	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.01 ug/l	61.53	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.00 ug/l	344.73	0.06	
118 Sn	-0.23 ug/l	9.64	0.30	
121 Sb	-0.02 ug/l	67.36	0.03	
137 Ba	-0.03 ug/l	9.68	0.12	
205 Tl	0.00 ug/l	12.91	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.22 ug/l	0.40	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1563789.80	0.79	1867730.90	83.7	70 - 120	
45 Sc	836139.25	0.84	860905.50	97.1	70 - 120	
45 Sc	33143.62	16.12	30466.40	108.8	70 - 120	
45 Sc	1456609.80	1.41	1514635.40	96.2	70 - 120	
72 Ge	176026.53	0.64	175233.81	100.5	70 - 120	
72 Ge	14542.78	10.82	13286.95	109.5	70 - 120	
72 Ge	264209.25	1.08	261657.25	101.0	70 - 120	
115 In	1441067.30	1.25	1427636.50	100.9	70 - 120	
159 Tb	1753935.50	1.19	1715789.30	102.2	70 - 120	
165 Ho	1703866.10	0.83	1678833.30	101.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\020SMPL.D\020SMPL.D#
Date Acquired: Apr 28 2011 02:03 pm
Operator: SDM
Sample Name: LDR 110425
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	868.20 ug/l	868.20	1.04	1000	
11 B	929.70 ug/l	929.70	0.33	1000	
23 Na	22580.00 ug/l	22580.00	2.12	25000	
24 Mg	44430.00 ug/l	44430.00	1.20	50000	
27 Al	18160.00 ug/l	18160.00	0.88	20000	
39 K	18060.00 ug/l	18060.00	0.81	20000	
44 Ca	48030.00 ug/l	48030.00	0.87	50000	
47 Ti	969.10 ug/l	969.10	0.24	1000	
51 V	895.60 ug/l	895.60	1.27	1000	
52 Cr	886.20 ug/l	886.20	0.34	1000	
55 Mn	945.10 ug/l	945.10	0.86	1000	
56 Fe	18240.00 ug/l	18240.00	0.79	20000	
59 Co	865.20 ug/l	865.20	0.76	1000	
60 Ni	899.60 ug/l	899.60	1.11	1000	
63 Cu	848.80 ug/l	848.80	1.44	1000	
65 Cu	906.90 ug/l	906.90	2.32	1000	
66 Zn	913.90 ug/l	913.90	2.45	1000	
75 As	965.60 ug/l	965.60	1.67	1000	
78 Se	955.70 ug/l	955.70	1.05	1000	
78 Se	970.30 ug/l	970.30	1.94	1000	
88 Sr	987.50 ug/l	987.50	2.37	1000	
88 Sr	932.80 ug/l	932.80	1.03	1000	
95 Mo	941.00 ug/l	941.00	0.39	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	404.40 ug/l	404.40	2.34	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	898.10 ug/l	898.10	0.22	1000	
118 Sn	924.00 ug/l	924.00	0.50	1000	
121 Sb	957.60 ug/l	957.60	0.29	1000	
137 Ba	938.70 ug/l	938.70	0.67	1000	
205 Tl	908.00 ug/l	908.00	0.46	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	866.20 ug/l	866.20	0.53	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1605875.50	0.44	1867730.90	86.0	70 - 120	
45 Sc	830994.19	0.78	860905.50	96.5	70 - 120	
45 Sc	30284.25	2.13	30466.40	99.4	70 - 120	
45 Sc	1429128.30	0.36	1514635.40	94.4	70 - 120	
72 Ge	168764.77	0.84	175233.81	96.3	70 - 120	
72 Ge	13256.94	3.24	13286.95	99.8	70 - 120	
72 Ge	252567.30	0.18	261657.25	96.5	70 - 120	
115 In	1341813.40	0.19	1427636.50	94.0	70 - 120	
159 Tb	1712193.00	0.56	1715789.30	99.8	70 - 120	
165 Ho	1683019.60	0.81	1678833.30	100.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\022SMPL.D\022SMPL.D#
Date Acquired: Apr 28 2011 02:15 pm
Operator: SDM
Sample Name: ICSA 110425
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	-0.13 ug/l	-0.13	4.39	1000	
11 B	3.97 ug/l	3.97	0.88	1000	
23 Na	88030.00 ug/l	88030.00	1.13	25000	>Cal
24 Mg	86490.00 ug/l	86490.00	0.58	50000	>Cal
27 Al	83310.00 ug/l	83310.00	1.07	20000	>Cal
39 K	83170.00 ug/l	83170.00	1.09	20000	>Cal
44 Ca	89240.00 ug/l	89240.00	1.58	50000	>Cal
47 Ti	1870.00 ug/l	1870.00	0.71	1000	>Cal
51 V	0.31 ug/l	0.31	15.08	1000	
52 Cr	0.64 ug/l	0.64	6.70	1000	
55 Mn	5.22 ug/l	5.22	3.97	1000	
56 Fe	87090.00 ug/l	87090.00	0.98	20000	>Cal
59 Co	1.14 ug/l	1.14	2.66	1000	
60 Ni	1.19 ug/l	1.19	2.50	1000	
63 Cu	1.64 ug/l	1.64	4.08	1000	
65 Cu	1.59 ug/l	1.59	4.05	1000	
66 Zn	1.65 ug/l	1.65	12.35	1000	
75 As	0.86 ug/l	0.86	6.94	1000	
78 Se	0.52 ug/l	0.52	11.92	1000	
78 Se	0.95 ug/l	0.95	78.11	1000	
88 Sr	1.16 ug/l	1.16	14.98	1000	
88 Sr	1.17 ug/l	1.17	0.51	1000	
95 Mo	1793.00 ug/l	1793.00	0.78	1000	>Cal
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.17 ug/l	0.17	13.65	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.33 ug/l	0.33	33.87	1000	
118 Sn	1.92 ug/l	1.92	4.00	1000	
121 Sb	4.31 ug/l	4.31	2.93	1000	
137 Ba	2.75 ug/l	2.75	1.38	1000	
205 Tl	0.48 ug/l	0.48	1.79	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	3.11 ug/l	3.11	1.95	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1725629.80	1.17	1867730.90	92.4	70 - 120	
45 Sc	828310.38	0.16	860905.50	96.2	70 - 120	
45 Sc	30175.11	1.78	30466.40	99.0	70 - 120	
45 Sc	1463943.40	0.46	1514635.40	96.7	70 - 120	
72 Ge	167660.22	0.39	175233.81	95.7	70 - 120	
72 Ge	13246.19	2.75	13286.95	99.7	70 - 120	
72 Ge	263595.50	0.42	261657.25	100.7	70 - 120	
115 In	1347400.60	0.22	1427636.50	94.4	70 - 120	
159 Tb	1751534.10	1.22	1715789.30	102.1	70 - 120	
165 Ho	1710337.60	1.55	1678833.30	101.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.D#

8 :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-AB QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\023ICSB.D\023ICSB.D#
Date Acquired: Apr 28 2011 02:21 pm
Acq. Method: 62A0428.M
Operator: SDM
Sample Name: ICSAB 110425
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal. Update: Apr 28 2011 01:00 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	253.00	0.17	250	101.2	80 - 120	
11 B	45	3	3.22	2.31	---		-	
23 Na	45	2	93190.00	1.73	---		-	
24 Mg	45	2	90340.00	1.38	---		-	
27 Al	45	2	84200.00	0.57	---		-	
39 K	45	2	85570.00	0.45	---		-	
44 Ca	45	2	90090.00	0.63	---		-	
47 Ti	45	2	1907.00	0.93	2000	95.4	80 - 120	
51 V	45	2	268.00	0.83	250	107.2	80 - 120	
52 Cr	45	2	255.30	1.29	250	102.1	80 - 120	
55 Mn	45	2	254.70	1.13	250	101.9	80 - 120	
56 Fe	45	2	88540.00	0.34	---		-	
59 Co	45	2	251.60	0.61	250	100.6	80 - 120	
60 Ni	45	2	490.80	1.42	500	98.2	80 - 120	
63 Cu	72	2	238.00	0.96	250	95.2	80 - 120	
65 Cu	72	2	237.80	0.41	250	95.1	80 - 120	
66 Zn	72	2	455.90	0.70	500	91.2	80 - 120	
75 As	72	2	263.40	1.12	250	105.4	80 - 120	
78 Se	72	1	266.40	0.52	250	106.6	80 - 120	
78 Se	72	2	252.60	0.78	250	101.0	80 - 120	
88 Sr	72	2	1.08	14.74	---		-	
88 Sr	72	3	1.22	0.40	---		-	
95 Mo	72	3	2056.00	1.14	2000	102.8	80 - 120	
106 (Cd)	---	3	--------	--------	---		-	
107 Ag	115	3	403.50	3.52	500	80.7	80 - 120	
108 (Cd)	---	3	--------	--------	---		-	
111 Cd	115	3	507.60	1.80	500	101.5	80 - 120	
118 Sn	115	3	0.98	4.15	---		-	
121 Sb	115	3	264.10	0.35	250	105.6	80 - 120	
137 Ba	115	3	275.10	1.16	250	110.0	80 - 120	
205 Tl	159	3	245.00	0.74	250	98.0	80 - 120	
206 (Pb)	---	3	--------	--------	---		-	
207 (Pb)	---	3	--------	--------	---		-	
208 Pb	159	3	462.60	0.74	500	92.5	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1924300	1.77	1867731	103.0	70 - 120	
45 Sc	1	836534	4.58	860906	97.2	70 - 120	
45 Sc	2	29314	2.56	30466	96.2	70 - 120	
45 Sc	3	1487366	0.30	1514635	98.2	70 - 120	
72 Ge	1	177702	0.84	175234	101.4	70 - 120	
72 Ge	2	13235	1.56	13287	99.6	70 - 120	
72 Ge	3	263948	0.78	261657	100.9	70 - 120	
115 In	3	1370432	0.96	1427637	96.0	70 - 120	
159 Tb	3	1779579	0.29	1715789	103.7	70 - 120	
165 Ho	3	1754687	1.16	1678833	104.5	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\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\025_CCV.D\025_CCV.D#
Date Acquired: Apr 28 2011 02:33 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	53.92 ug/l	0.85	50.00	90 - 110	
11 B	54.87 ug/l	0.19	50.00	90 - 110	
23 Na	1294.00 ug/l	0.63	1250.00	90 - 110	
24 Mg	2604.00 ug/l	0.84	2500.00	90 - 110	
27 Al	951.20 ug/l	0.95	1000.00	90 - 110	
39 K	997.80 ug/l	0.86	1000.00	90 - 110	
44 Ca	2368.00 ug/l	1.01	2500.00	90 - 110	
47 Ti	49.44 ug/l	1.61	50.00	90 - 110	
51 V	51.29 ug/l	0.41	50.00	90 - 110	
52 Cr	50.98 ug/l	1.22	50.00	90 - 110	
55 Mn	48.59 ug/l	0.98	50.00	90 - 110	
56 Fe	1007.00 ug/l	4.18	1000.00	90 - 110	
59 Co	51.23 ug/l	1.69	50.00	90 - 110	
60 Ni	50.97 ug/l	0.74	50.00	90 - 110	
63 Cu	49.50 ug/l	0.70	50.00	90 - 110	
65 Cu	49.54 ug/l	0.59	50.00	90 - 110	
66 Zn	48.30 ug/l	1.49	50.00	90 - 110	
75 As	49.56 ug/l	1.49	50.00	90 - 110	
78 Se	50.01 ug/l	0.70	50.00	90 - 110	
78 Se	47.85 ug/l	0.87	50.00	90 - 110	
88 Sr	48.79 ug/l	1.10	50.00	90 - 110	
88 Sr	53.57 ug/l	0.48	50.00	90 - 110	
95 Mo	51.26 ug/l	1.39	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	24.01 ug/l	2.16	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	49.14 ug/l	0.90	50.00	90 - 110	
118 Sn	50.02 ug/l	1.89	50.00	90 - 110	
121 Sb	51.08 ug/l	0.67	50.00	90 - 110	
137 Ba	49.06 ug/l	1.39	50.00	90 - 110	
205 Tl	51.15 ug/l	1.09	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	49.15 ug/l	0.90	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2318800.00	1.59	1867730.90	124.2	70 - 120	IS Fail
45 Sc	858260.56	0.52	860905.50	99.7	70 - 120	
45 Sc	30708.43	2.27	30466.40	100.8	70 - 120	
45 Sc	1587232.10	1.17	1514635.40	104.8	70 - 120	
72 Ge	193837.09	0.60	175233.81	110.6	70 - 120	
72 Ge	13962.40	0.88	13286.95	105.1	70 - 120	
72 Ge	275558.69	1.09	261657.25	105.3	70 - 120	
115 In	1528152.90	1.79	1427636.50	107.0	70 - 120	
159 Tb	1883042.90	1.12	1715789.30	109.7	70 - 120	
165 Ho	1832350.30	1.04	1678833.30	109.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\029_CCB.D\029_CCB.D#
Date Acquired: Apr 28 2011 02:57 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	#VALUE!	
9 Be	-0.15	ug/l	1.60	0.12	
11 B	0.25	ug/l	6.68	15.00	
23 Na	-33.99	ug/l	0.40	77.10	
24 Mg	-1.30	ug/l	17.59	7.50	
27 Al	-0.48	ug/l	51.69	3.96	
39 K	-17.37	ug/l	47.53	19.20	
44 Ca	-14.41	ug/l	27.22	90.00	
47 Ti	0.04	ug/l	111.44	0.78	
51 V	-0.10	ug/l	12.10	0.21	
52 Cr	-0.02	ug/l	20.68	0.12	
55 Mn	-0.02	ug/l	56.27	0.18	
56 Fe	-4.95	ug/l	0.79	40.80	
59 Co	-0.22	ug/l	0.82	0.09	
60 Ni	-0.02	ug/l	77.86	0.48	
63 Cu	-0.09	ug/l	2.89	0.39	
65 Cu	-0.09	ug/l	17.20	0.39	
66 Zn	-0.15	ug/l	49.69	6.90	
75 As	0.00	ug/l	733.43	0.27	
78 Se	-0.01	ug/l	160.36	0.30	
78 Se	0.04	ug/l	156.47	0.30	
88 Sr	0.00	ug/l	3200.40	0.03	
88 Sr	-0.02	ug/l	27.25	0.03	
95 Mo	0.17	ug/l	10.41	0.21	
106 (Cd)	--------	ug/l	--------	#VALUE!	
107 Ag	0.00	ug/l	353.33	0.09	
108 (Cd)	--------	ug/l	--------	#VALUE!	
111 Cd	0.01	ug/l	67.52	0.06	
118 Sn	-0.21	ug/l	1.34	0.30	
121 Sb	0.10	ug/l	17.46	0.03	Fail
137 Ba	-0.02	ug/l	36.96	0.12	
205 Tl	0.01	ug/l	89.51	0.03	
206 (Pb)	--------	ug/l	--------	#VALUE!	
207 (Pb)	--------	ug/l	--------	#VALUE!	
208 Pb	-0.23	ug/l	1.25	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2037269.50	0.88	1867730.90	109.1	70 - 120	
45 Sc	837163.00	0.96	860905.50	97.2	70 - 120	
45 Sc	32459.60	2.91	30466.40	106.5	70 - 120	
45 Sc	1574173.10	1.96	1514635.40	103.9	70 - 120	
72 Ge	194091.81	0.29	175233.81	110.8	70 - 120	
72 Ge	14883.35	0.95	13286.95	112.0	70 - 120	
72 Ge	283621.69	1.69	261657.25	108.4	70 - 120	
115 In	1546262.80	1.29	1427636.50	108.3	70 - 120	
159 Tb	1875744.80	1.30	1715789.30	109.3	70 - 120	
165 Ho	1831819.60	1.82	1678833.30	109.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\041_CCV.D\041_CCV.D#
Date Acquired: Apr 28 2011 04:10 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	51.11 ug/l	0.92	50.00	90 - 110	
11 B	51.69 ug/l	0.57	50.00	90 - 110	
23 Na	1242.00 ug/l	4.51	1250.00	90 - 110	
24 Mg	2566.00 ug/l	4.30	2500.00	90 - 110	
27 Al	973.40 ug/l	5.73	1000.00	90 - 110	
39 K	982.00 ug/l	5.36	1000.00	90 - 110	
44 Ca	2429.00 ug/l	6.41	2500.00	90 - 110	
47 Ti	47.04 ug/l	5.44	50.00	90 - 110	
51 V	50.48 ug/l	4.62	50.00	90 - 110	
52 Cr	48.81 ug/l	4.46	50.00	90 - 110	
55 Mn	48.53 ug/l	4.08	50.00	90 - 110	
56 Fe	961.40 ug/l	4.47	1000.00	90 - 110	
59 Co	49.19 ug/l	4.73	50.00	90 - 110	
60 Ni	48.65 ug/l	4.94	50.00	90 - 110	
63 Cu	47.43 ug/l	3.98	50.00	90 - 110	
65 Cu	47.69 ug/l	3.37	50.00	90 - 110	
66 Zn	47.03 ug/l	3.65	50.00	90 - 110	
75 As	48.06 ug/l	3.20	50.00	90 - 110	
78 Se	47.25 ug/l	0.82	50.00	90 - 110	
78 Se	48.54 ug/l	3.60	50.00	90 - 110	
88 Sr	48.20 ug/l	3.64	50.00	90 - 110	
88 Sr	51.27 ug/l	0.22	50.00	90 - 110	
95 Mo	47.84 ug/l	0.98	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	24.00 ug/l	0.62	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	48.36 ug/l	0.93	50.00	90 - 110	
118 Sn	49.67 ug/l	0.08	50.00	90 - 110	
121 Sb	47.63 ug/l	0.60	50.00	90 - 110	
137 Ba	49.21 ug/l	1.02	50.00	90 - 110	
205 Tl	51.33 ug/l	0.73	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	49.06 ug/l	0.15	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2062171.00	0.72	1867730.90	110.4	70 - 120	
45 Sc	854540.69	1.05	860905.50	99.3	70 - 120	
45 Sc	32002.69	3.83	30466.40	105.0	70 - 120	
45 Sc	1548905.50	1.17	1514635.40	102.3	70 - 120	
72 Ge	192193.67	0.31	175233.81	109.7	70 - 120	
72 Ge	14402.48	2.86	13286.95	108.4	70 - 120	
72 Ge	279071.22	0.87	261657.25	106.7	70 - 120	
115 In	1486651.90	0.83	1427636.50	104.1	70 - 120	
159 Tb	1827605.40	0.32	1715789.30	106.5	70 - 120	
165 Ho	1787204.90	1.52	1678833.30	106.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\043_CCB.D\043_CCB.D#
Date Acquired: Apr 28 2011 04:22 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.15 ug/l	1.13	0.12	
11 B	0.26 ug/l	8.92	15.00	
23 Na	-29.09 ug/l	1.28	77.10	
24 Mg	-1.46 ug/l	2.71	7.50	
27 Al	-0.78 ug/l	21.24	3.96	
39 K	-17.78 ug/l	20.92	19.20	
44 Ca	-14.45 ug/l	3.05	90.00	
47 Ti	-0.01 ug/l	7.59	0.78	
51 V	-0.07 ug/l	7.04	0.21	
52 Cr	-0.02 ug/l	24.56	0.12	
55 Mn	0.00 ug/l	102.33	0.18	
56 Fe	-4.93 ug/l	0.48	40.80	
59 Co	-0.23 ug/l	0.45	0.09	
60 Ni	-0.02 ug/l	41.18	0.48	
63 Cu	-0.10 ug/l	4.97	0.39	
65 Cu	-0.10 ug/l	8.90	0.39	
66 Zn	-0.14 ug/l	106.79	6.90	
75 As	0.01 ug/l	266.61	0.27	
78 Se	0.01 ug/l	315.17	0.30	
78 Se	-0.06 ug/l	384.86	0.30	
88 Sr	-0.02 ug/l	119.64	0.03	
88 Sr	-0.02 ug/l	10.91	0.03	
95 Mo	0.08 ug/l	34.54	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	186.00	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.00 ug/l	698.84	0.06	
118 Sn	-0.23 ug/l	2.68	0.30	
121 Sb	0.08 ug/l	12.34	0.03	Fail
137 Ba	-0.01 ug/l	44.94	0.12	
205 Tl	0.04 ug/l	9.26	0.03	Fail
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.23 ug/l	0.90	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1692319.60	1.15	1867730.90	90.6	70 - 120	
45 Sc	832806.44	1.23	860905.50	96.7	70 - 120	
45 Sc	34236.54	1.00	30466.40	112.4	70 - 120	
45 Sc	1508268.80	0.47	1514635.40	99.6	70 - 120	
72 Ge	189736.56	0.88	175233.81	108.3	70 - 120	
72 Ge	15320.47	0.78	13286.95	115.3	70 - 120	
72 Ge	274721.84	0.47	261657.25	105.0	70 - 120	
115 In	1495613.00	0.92	1427636.50	104.8	70 - 120	
159 Tb	1803709.90	0.79	1715789.30	105.1	70 - 120	
165 Ho	1754829.60	1.45	1678833.30	104.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\055_CCV.D\055_CCV.D#
Date Acquired: Apr 28 2011 05:35 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	46.86 ug/l	1.14	50.00	90 - 110	
11 B	51.50 ug/l	0.41	50.00	90 - 110	
23 Na	1381.00 ug/l	0.79	1250.00	90 - 110	Fail
24 Mg	2529.00 ug/l	0.84	2500.00	90 - 110	
27 Al	961.40 ug/l	1.76	1000.00	90 - 110	
39 K	997.20 ug/l	0.84	1000.00	90 - 110	
44 Ca	2438.00 ug/l	0.55	2500.00	90 - 110	
47 Ti	46.35 ug/l	5.09	50.00	90 - 110	
51 V	50.74 ug/l	1.57	50.00	90 - 110	
52 Cr	48.44 ug/l	0.28	50.00	90 - 110	
55 Mn	48.73 ug/l	0.88	50.00	90 - 110	
56 Fe	929.00 ug/l	1.10	1000.00	90 - 110	
59 Co	49.41 ug/l	0.92	50.00	90 - 110	
60 Ni	48.73 ug/l	0.69	50.00	90 - 110	
63 Cu	46.04 ug/l	0.37	50.00	90 - 110	
65 Cu	45.61 ug/l	0.71	50.00	90 - 110	
66 Zn	45.36 ug/l	0.76	50.00	90 - 110	
75 As	47.40 ug/l	0.80	50.00	90 - 110	
78 Se	46.09 ug/l	0.29	50.00	90 - 110	
78 Se	46.30 ug/l	3.90	50.00	90 - 110	
88 Sr	48.72 ug/l	1.08	50.00	90 - 110	
88 Sr	51.06 ug/l	0.32	50.00	90 - 110	
95 Mo	47.55 ug/l	0.52	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	23.96 ug/l	0.44	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	47.69 ug/l	0.23	50.00	90 - 110	
118 Sn	49.39 ug/l	0.70	50.00	90 - 110	
121 Sb	46.94 ug/l	0.29	50.00	90 - 110	
137 Ba	49.36 ug/l	1.00	50.00	90 - 110	
205 Tl	51.26 ug/l	0.78	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	49.20 ug/l	0.29	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1852225.30	1.34	1867730.90	99.2	70 - 120	
45 Sc	868579.25	0.58	860905.50	100.9	70 - 120	
45 Sc	32206.48	0.20	30466.40	105.7	70 - 120	
45 Sc	1521036.80	0.46	1514635.40	100.4	70 - 120	
72 Ge	199557.98	0.58	175233.81	113.9	70 - 120	
72 Ge	14948.60	0.75	13286.95	112.5	70 - 120	
72 Ge	284713.44	0.19	261657.25	108.8	70 - 120	
115 In	1514056.80	0.34	1427636.50	106.1	70 - 120	
159 Tb	1827476.10	0.37	1715789.30	106.5	70 - 120	
165 Ho	1789970.50	0.45	1678833.30	106.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\057_CCB.D\057_CCB.D#
Date Acquired: Apr 28 2011 05:47 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.14 ug/l	0.35	0.12	
11 B	3.22 ug/l	2.35	15.00	
23 Na	79.85 ug/l	2.84	77.10	Fail
24 Mg	-0.08 ug/l	130.62	7.50	
27 Al	-1.08 ug/l	4.80	3.96	
39 K	-7.23 ug/l	100.82	19.20	
44 Ca	-16.95 ug/l	5.47	90.00	
47 Ti	-0.02 ug/l	122.75	0.78	
51 V	-0.03 ug/l	36.28	0.21	
52 Cr	-0.02 ug/l	32.63	0.12	
55 Mn	-0.02 ug/l	81.71	0.18	
56 Fe	-4.89 ug/l	0.28	40.80	
59 Co	-0.23 ug/l	0.53	0.09	
60 Ni	-0.02 ug/l	52.25	0.48	
63 Cu	-0.06 ug/l	20.54	0.39	
65 Cu	-0.07 ug/l	11.46	0.39	
66 Zn	-0.16 ug/l	47.96	6.90	
75 As	-0.02 ug/l	68.80	0.27	
78 Se	0.02 ug/l	84.33	0.30	
78 Se	-0.05 ug/l	256.62	0.30	
88 Sr	0.00 ug/l	1700.50	0.03	
88 Sr	-0.02 ug/l	24.63	0.03	
95 Mo	0.10 ug/l	13.26	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	150.31	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.00 ug/l	360.74	0.06	
118 Sn	-0.22 ug/l	9.49	0.30	
121 Sb	0.12 ug/l	11.93	0.03	Fail
137 Ba	-0.02 ug/l	12.51	0.12	
205 Tl	0.04 ug/l	6.50	0.03	Fail
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.23 ug/l	1.59	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1789004.80	1.00	1867730.90	95.8	70 - 120	
45 Sc	870533.50	0.84	860905.50	101.1	70 - 120	
45 Sc	34239.51	1.74	30466.40	112.4	70 - 120	
45 Sc	1573241.90	1.51	1514635.40	103.9	70 - 120	
72 Ge	199947.42	0.09	175233.81	114.1	70 - 120	
72 Ge	16098.34	1.10	13286.95	121.2	70 - 120	IS Fail
72 Ge	289963.78	1.19	261657.25	110.8	70 - 120	
115 In	1573710.10	1.37	1427636.50	110.2	70 - 120	
159 Tb	1863987.10	0.63	1715789.30	108.6	70 - 120	
165 Ho	1814047.90	0.51	1678833.30	108.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\069_CCV.D\069_CCV.D#
Date Acquired: Apr 28 2011 06:59 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	46.33 ug/l	0.58	50.00	90 - 110	
11 B	47.87 ug/l	0.43	50.00	90 - 110	
23 Na	1240.00 ug/l	1.86	1250.00	90 - 110	
24 Mg	2483.00 ug/l	1.83	2500.00	90 - 110	
27 Al	951.50 ug/l	1.88	1000.00	90 - 110	
39 K	993.00 ug/l	1.68	1000.00	90 - 110	
44 Ca	2375.00 ug/l	1.11	2500.00	90 - 110	
47 Ti	49.86 ug/l	1.42	50.00	90 - 110	
51 V	49.89 ug/l	1.21	50.00	90 - 110	
52 Cr	48.14 ug/l	1.18	50.00	90 - 110	
55 Mn	47.54 ug/l	1.20	50.00	90 - 110	
56 Fe	907.80 ug/l	1.76	1000.00	90 - 110	
59 Co	48.42 ug/l	1.84	50.00	90 - 110	
60 Ni	47.44 ug/l	1.50	50.00	90 - 110	
63 Cu	44.92 ug/l	0.70	50.00	90 - 110	Fail
65 Cu	44.65 ug/l	1.31	50.00	90 - 110	Fail
66 Zn	44.82 ug/l	1.17	50.00	90 - 110	Fail
75 As	46.70 ug/l	1.10	50.00	90 - 110	
78 Se	46.16 ug/l	0.29	50.00	90 - 110	
78 Se	46.28 ug/l	5.46	50.00	90 - 110	
88 Sr	48.32 ug/l	1.70	50.00	90 - 110	
88 Sr	51.19 ug/l	0.14	50.00	90 - 110	
95 Mo	47.21 ug/l	0.43	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	23.39 ug/l	0.48	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	46.90 ug/l	0.34	50.00	90 - 110	
118 Sn	48.64 ug/l	0.96	50.00	90 - 110	
121 Sb	46.71 ug/l	1.45	50.00	90 - 110	
137 Ba	48.55 ug/l	0.84	50.00	90 - 110	
205 Tl	50.72 ug/l	0.75	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	48.28 ug/l	0.52	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1820714.00	1.16	1867730.90	97.5	70 - 120	
45 Sc	845446.38	1.10	860905.50	98.2	70 - 120	
45 Sc	31931.74	2.27	30466.40	104.8	70 - 120	
45 Sc	1503853.80	0.54	1514635.40	99.3	70 - 120	
72 Ge	192961.42	0.56	175233.81	110.1	70 - 120	
72 Ge	14792.86	1.60	13286.95	111.3	70 - 120	
72 Ge	278253.81	0.65	261657.25	106.3	70 - 120	
115 In	1512179.10	0.51	1427636.50	105.9	70 - 120	
159 Tb	1798326.80	0.61	1715789.30	104.8	70 - 120	
165 Ho	1751732.30	0.31	1678833.30	104.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\071_CCB.D\071_CCB.D#
Date Acquired: Apr 28 2011 07:12 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.15 ug/l	2.34	0.12	
11 B	1.00 ug/l	4.08	15.00	
23 Na	16.94 ug/l	5.26	77.10	
24 Mg	-0.37 ug/l	159.74	7.50	
27 Al	-0.70 ug/l	12.83	3.96	
39 K	-10.71 ug/l	95.33	19.20	
44 Ca	-16.60 ug/l	22.26	90.00	
47 Ti	-0.02 ug/l	274.32	0.78	
51 V	-0.05 ug/l	3.04	0.21	
52 Cr	-0.03 ug/l	13.28	0.12	
55 Mn	-0.01 ug/l	93.03	0.18	
56 Fe	-4.91 ug/l	0.56	40.80	
59 Co	-0.22 ug/l	1.55	0.09	
60 Ni	-0.02 ug/l	28.79	0.48	
63 Cu	-0.09 ug/l	8.50	0.39	
65 Cu	-0.10 ug/l	12.82	0.39	
66 Zn	-0.23 ug/l	9.72	6.90	
75 As	0.00 ug/l	1130.90	0.27	
78 Se	0.02 ug/l	37.58	0.30	
78 Se	0.23 ug/l	93.28	0.30	
88 Sr	-0.01 ug/l	169.25	0.03	
88 Sr	0.01 ug/l	30.36	0.03	
95 Mo	0.10 ug/l	25.34	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.01 ug/l	17.70	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.00 ug/l	112.99	0.06	
118 Sn	-0.21 ug/l	4.36	0.30	
121 Sb	0.10 ug/l	15.30	0.03	Fail
137 Ba	0.00 ug/l	253.71	0.12	
205 Tl	0.07 ug/l	10.20	0.03	Fail
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.23 ug/l	1.60	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1786887.00	0.86	1867730.90	95.7	70 - 120	
45 Sc	847528.19	0.78	860905.50	98.4	70 - 120	
45 Sc	33570.56	1.79	30466.40	110.2	70 - 120	
45 Sc	1542339.80	1.73	1514635.40	101.8	70 - 120	
72 Ge	194324.17	0.55	175233.81	110.9	70 - 120	
72 Ge	15628.93	1.32	13286.95	117.6	70 - 120	
72 Ge	281807.19	0.78	261657.25	107.7	70 - 120	
115 In	1546932.00	1.11	1427636.50	108.4	70 - 120	
159 Tb	1816793.00	1.92	1715789.30	105.9	70 - 120	
165 Ho	1777537.00	1.51	1678833.30	105.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\083_CCV.D\083_CCV.D#
Date Acquired: Apr 28 2011 08:24 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	45.60 ug/l	2.39	50.00	90 - 110	
11 B	46.99 ug/l	0.65	50.00	90 - 110	
23 Na	1179.00 ug/l	1.98	1250.00	90 - 110	
24 Mg	2430.00 ug/l	1.03	2500.00	90 - 110	
27 Al	940.30 ug/l	0.46	1000.00	90 - 110	
39 K	982.50 ug/l	1.42	1000.00	90 - 110	
44 Ca	2337.00 ug/l	0.77	2500.00	90 - 110	
47 Ti	48.15 ug/l	1.36	50.00	90 - 110	
51 V	49.70 ug/l	2.07	50.00	90 - 110	
52 Cr	47.17 ug/l	1.22	50.00	90 - 110	
55 Mn	47.66 ug/l	0.99	50.00	90 - 110	
56 Fe	980.80 ug/l	0.93	1000.00	90 - 110	
59 Co	48.21 ug/l	0.98	50.00	90 - 110	
60 Ni	47.35 ug/l	0.70	50.00	90 - 110	
63 Cu	44.51 ug/l	0.85	50.00	90 - 110	Fail
65 Cu	44.14 ug/l	0.22	50.00	90 - 110	Fail
66 Zn	44.91 ug/l	0.79	50.00	90 - 110	Fail
75 As	46.74 ug/l	1.62	50.00	90 - 110	
78 Se	45.47 ug/l	0.37	50.00	90 - 110	
78 Se	46.08 ug/l	2.65	50.00	90 - 110	
88 Sr	47.57 ug/l	1.36	50.00	90 - 110	
88 Sr	50.63 ug/l	0.91	50.00	90 - 110	
95 Mo	47.04 ug/l	0.54	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	23.15 ug/l	1.98	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	46.68 ug/l	2.98	50.00	90 - 110	
118 Sn	48.24 ug/l	1.63	50.00	90 - 110	
121 Sb	47.45 ug/l	1.46	50.00	90 - 110	
137 Ba	48.26 ug/l	1.79	50.00	90 - 110	
205 Tl	49.27 ug/l	0.70	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	47.01 ug/l	0.66	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1712254.60	1.35	1867730.90	91.7	70 - 120	
45 Sc	795175.38	1.22	860905.50	92.4	70 - 120	
45 Sc	30441.94	1.36	30466.40	99.9	70 - 120	
45 Sc	1442818.10	2.22	1514635.40	95.3	70 - 120	
72 Ge	184303.56	0.49	175233.81	105.2	70 - 120	
72 Ge	14236.37	0.06	13286.95	107.1	70 - 120	
72 Ge	270378.34	1.04	261657.25	103.3	70 - 120	
115 In	1457112.80	2.25	1427636.50	102.1	70 - 120	
159 Tb	1738988.40	0.91	1715789.30	101.4	70 - 120	
165 Ho	1683246.00	1.17	1678833.30	100.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\085_CCB.D\085_CCB.D#
Date Acquired: Apr 28 2011 08:36 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.14 ug/l	2.77	0.12	
11 B	1.03 ug/l	0.19	15.00	
23 Na	-22.17 ug/l	2.49	77.10	
24 Mg	-0.39 ug/l	77.03	7.50	
27 Al	-0.88 ug/l	22.96	3.96	
39 K	-5.16 ug/l	141.03	19.20	
44 Ca	-13.41 ug/l	11.82	90.00	
47 Ti	0.04 ug/l	110.15	0.78	
51 V	-0.06 ug/l	3.88	0.21	
52 Cr	-0.02 ug/l	52.15	0.12	
55 Mn	0.00 ug/l	1258.00	0.18	
56 Fe	-4.95 ug/l	1.02	40.80	
59 Co	-0.22 ug/l	2.14	0.09	
60 Ni	-0.03 ug/l	6.70	0.48	
63 Cu	-0.06 ug/l	10.70	0.39	
65 Cu	-0.07 ug/l	13.02	0.39	
66 Zn	-0.23 ug/l	41.18	6.90	
75 As	0.01 ug/l	203.47	0.27	
78 Se	0.01 ug/l	131.09	0.30	
78 Se	0.22 ug/l	62.62	0.30	
88 Sr	-0.03 ug/l	39.20	0.03	
88 Sr	0.00 ug/l	458.53	0.03	
95 Mo	0.07 ug/l	14.06	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	405.71	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.01 ug/l	70.39	0.06	
118 Sn	-0.23 ug/l	3.00	0.30	
121 Sb	0.11 ug/l	19.31	0.03	Fail
137 Ba	0.00 ug/l	54.82	0.12	
205 Tl	0.10 ug/l	1.38	0.03	Fail
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.24 ug/l	1.09	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1696705.60	0.89	1867730.90	90.8	70 - 120	
45 Sc	835232.94	0.53	860905.50	97.0	70 - 120	
45 Sc	33040.47	1.35	30466.40	108.4	70 - 120	
45 Sc	1493785.50	0.39	1514635.40	98.6	70 - 120	
72 Ge	192527.69	0.56	175233.81	109.9	70 - 120	
72 Ge	15510.67	0.72	13286.95	116.7	70 - 120	
72 Ge	277511.44	0.76	261657.25	106.1	70 - 120	
115 In	1496905.30	0.67	1427636.50	104.9	70 - 120	
159 Tb	1751171.50	0.92	1715789.30	102.1	70 - 120	
165 Ho	1707820.90	0.81	1678833.30	101.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

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	0.22 U	0.5	0.22	0.11	ug/L	04/27/11	04/28/11	#602D-110427A-AY36312

Metals SC-Blank-REG MDLs
Printed: 05/16/11 11:02:45 AM

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\031SMPL.D\031SMPL.D#
Date Acquired: Apr 28 2011 03:09 pm
Operator: SDM
Sample Name: 110427A-3015-BLK
Misc Info: 110427A-3015
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	-0.15 ug/l	-0.16	0.81	1000	
11 B	2.00 ug/l	2.23	0.67	1000	
23 Na	-22.37 ug/l	-24.85	4.12	25000	
24 Mg	17.20 ug/l	19.11	2.80	50000	
27 Al	56.38 ug/l	62.64	6.45	20000	
39 K	-2.40 ug/l	-2.67	196.62	20000	
44 Ca	148.40 ug/l	164.87	11.46	50000	
47 Ti	1.20 ug/l	1.33	24.74	1000	
51 V	0.00 ug/l	0.00	11365.00	1000	
52 Cr	0.10 ug/l	0.11	13.39	1000	
55 Mn	1.91 ug/l	2.12	3.91	1000	
56 Fe	12.87 ug/l	14.30	6.52	20000	
59 Co	-0.14 ug/l	-0.16	4.99	1000	
60 Ni	0.20 ug/l	0.23	12.47	1000	
63 Cu	0.00 ug/l	0.00	190.86	1000	
65 Cu	-0.02 ug/l	-0.02	132.76	1000	
66 Zn	26.27 ug/l	29.19	1.61	1000	
75 As	0.15 ug/l	0.17	26.40	1000	
78 Se	0.00 ug/l	0.00	309.29	1000	
78 Se	0.09 ug/l	0.10	174.23	1000	
88 Sr	0.15 ug/l	0.17	27.23	1000	
88 Sr	0.14 ug/l	0.16	6.00	1000	
95 Mo	0.56 ug/l	0.62	6.23	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.01 ug/l	0.01	16.41	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.00 ug/l	0.00	1366.80	1000	
118 Sn	0.49 ug/l	0.55	1.81	1000	
121 Sb	0.55 ug/l	0.61	6.38	1000	
137 Ba	0.25 ug/l	0.27	12.76	1000	
205 Tl	0.00 ug/l	0.00	23.45	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	-0.04 ug/l	-0.05	23.57	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1924895.00	0.64	1867730.90	103.1	70 - 120	
45 Sc	875515.13	1.55	860905.50	101.7	70 - 120	
45 Sc	32852.36	1.31	30466.40	107.8	70 - 120	
45 Sc	1552856.40	0.75	1514635.40	102.5	70 - 120	
72 Ge	193733.86	0.34	175233.81	110.6	70 - 120	
72 Ge	14702.05	0.56	13286.95	110.7	70 - 120	
72 Ge	276521.78	0.53	261657.25	105.7	70 - 120	
115 In	1529008.80	1.90	1427636.50	107.1	70 - 120	
159 Tb	1854965.40	1.05	1715789.30	108.1	70 - 120	
165 Ho	1826368.30	0.78	1678833.30	108.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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)	250	234	93.6	80-120	04/27/11	04/28/11	#602D-110427A-AY36312

Comments: _____

Printed: 05/16/11 11:02:53 AM
APPL Standard LCS

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\035SMPL.D\035SMPL.D#
Date Acquired: Apr 28 2011 03:34 pm
Operator: SDM
Sample Name: 110427A-3015-LCS
Misc Info: 110427A-3015
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	40.53 ug/l	45.03	0.97	1000	
11 B	221.50 ug/l	246.09	0.90	1000	
23 Na	21220.00 ug/l	23575.42	0.70	25000	
24 Mg	20940.00 ug/l	23264.34	0.49	50000	
27 Al	1813.00 ug/l	2014.24	1.44	20000	
39 K	4463.00 ug/l	4958.39	0.79	20000	
44 Ca	22440.00 ug/l	24930.84	0.30	50000	
47 Ti	222.80 ug/l	247.53	0.75	1000	
51 V	226.90 ug/l	252.09	0.52	1000	
52 Cr	222.00 ug/l	246.64	0.13	1000	
55 Mn	224.70 ug/l	249.64	0.10	1000	
56 Fe	953.00 ug/l	1058.78	0.74	20000	
59 Co	218.40 ug/l	242.64	1.03	1000	
60 Ni	212.90 ug/l	236.53	0.74	1000	
63 Cu	209.50 ug/l	232.75	0.48	1000	
65 Cu	208.90 ug/l	232.09	0.63	1000	
66 Zn	417.00 ug/l	463.29	0.51	1000	
75 As	213.10 ug/l	236.75	0.24	1000	
78 Se	210.50 ug/l	233.87	0.53	1000	
78 Se	215.10 ug/l	238.98	1.86	1000	
88 Sr	229.60 ug/l	255.09	0.46	1000	
88 Sr	225.80 ug/l	250.86	0.63	1000	
95 Mo	242.70 ug/l	269.64	0.56	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	85.70 ug/l	95.21	1.33	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	43.21 ug/l	48.01	1.75	1000	
118 Sn	212.70 ug/l	236.31	0.54	1000	
121 Sb	223.20 ug/l	247.98	0.40	1000	
137 Ba	227.80 ug/l	253.09	0.35	1000	
205 Tl	215.80 ug/l	239.75	0.56	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	210.80 ug/l	234.20	0.65	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1697362.60	1.31	1867730.90	90.9	70 - 120	
45 Sc	813936.06	1.44	860905.50	94.5	70 - 120	
45 Sc	32317.06	1.94	30466.40	106.1	70 - 120	
45 Sc	1510385.30	1.28	1514635.40	99.7	70 - 120	
72 Ge	180417.98	0.32	175233.81	103.0	70 - 120	
72 Ge	14275.34	1.44	13286.95	107.4	70 - 120	
72 Ge	266003.34	0.42	261657.25	101.7	70 - 120	
115 In	1458448.90	0.54	1427636.50	102.2	70 - 120	
159 Tb	1829773.00	0.28	1715789.30	106.6	70 - 120	
165 Ho	1792390.30	0.50	1678833.30	106.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

Matrix Spike Recoveries

METALS

APPL ID: **110427W-36384 MS - 154608**

Sample ID: AY36384

Client ID: ES029

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	250	ND	227	215	90.8	86.0	5.4	20	80-120	04/27/11	04/28/11	04/27/11	04/28/11	154608	AY36384

Comments: _____

Printed: 05/16/11 11:02:59 AM

APPL MSD SCII

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\067SMPL.D\067SMPL.D#
Date Acquired: Apr 28 2011 06:47 pm
Operator: SDM
Sample Name: AY36384W29 MS
Misc Info: 110427A-3015
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	36.43 ug/l	40.47	3.69	1000	
11 B	222.00 ug/l	246.64	4.00	1000	
23 Na	255600.00 ug/l	283971.60	0.75	25000	>Cal
24 Mg	118700.00 ug/l	131875.70	1.11	50000	>Cal
27 Al	1715.00 ug/l	1905.37	1.72	20000	
39 K	10260.00 ug/l	11398.86	0.73	20000	
44 Ca	158900.00 ug/l	176537.90	0.27	50000	>Cal
47 Ti	219.50 ug/l	243.86	1.38	1000	
51 V	222.10 ug/l	246.75	0.84	1000	
52 Cr	220.20 ug/l	244.64	0.60	1000	
55 Mn	227.30 ug/l	252.53	0.46	1000	
56 Fe	873.40 ug/l	970.35	0.66	20000	
59 Co	203.30 ug/l	225.87	1.16	1000	
60 Ni	205.00 ug/l	227.76	1.02	1000	
63 Cu	185.10 ug/l	205.65	0.73	1000	
65 Cu	184.50 ug/l	204.98	0.56	1000	
66 Zn	369.00 ug/l	409.96	0.18	1000	
75 As	207.20 ug/l	230.20	0.84	1000	
78 Se	211.80 ug/l	235.31	1.89	1000	
78 Se	209.50 ug/l	232.75	1.21	1000	
88 Sr	2796.00 ug/l	3106.36	0.67	1000	>Cal
88 Sr	2963.00 ug/l	3291.89	1.45	1000	>Cal
95 Mo	245.00 ug/l	272.20	1.39	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	78.88 ug/l	87.64	2.85	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	41.45 ug/l	46.05	2.61	1000	
118 Sn	236.20 ug/l	262.42	2.06	1000	
121 Sb	231.00 ug/l	256.64	3.19	1000	
137 Ba	349.10 ug/l	387.85	3.15	1000	
205 Tl	206.60 ug/l	229.53	2.25	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	204.10 ug/l	226.76	1.54	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1475215.80	0.71	1867730.90	79.0	70 - 120	
45 Sc	829902.38	5.15	860905.50	96.4	70 - 120	
45 Sc	31213.95	1.76	30466.40	102.5	70 - 120	
45 Sc	1438855.60	2.96	1514635.40	95.0	70 - 120	
72 Ge	171273.77	1.26	175233.81	97.7	70 - 120	
72 Ge	14019.87	1.26	13286.95	105.5	70 - 120	
72 Ge	246263.69	1.61	261657.25	94.1	70 - 120	
115 In	1329743.10	2.39	1427636.50	93.1	70 - 120	
159 Tb	1645014.10	1.23	1715789.30	95.9	70 - 120	
165 Ho	1625314.80	1.28	1678833.30	96.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\072SMPL.D\072SMPL.D#
Date Acquired: Apr 28 2011 07:18 pm
Operator: SDM
Sample Name: AY36384W29 MSD
Misc Info: 110427A-3015
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 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	35.65	ug/l	39.61	0.89	1000	
11 B	215.60	ug/l	239.53	0.92	1000	
23 Na	251800.00	ug/l	279749.80	1.57	25000	>Cal
24 Mg	117700.00	ug/l	130764.70	1.07	50000	>Cal
27 Al	1697.00	ug/l	1885.37	0.65	20000	
39 K	10260.00	ug/l	11398.86	1.11	20000	
44 Ca	157100.00	ug/l	174538.10	1.12	50000	>Cal
47 Ti	218.60	ug/l	242.86	1.42	1000	
51 V	220.20	ug/l	244.64	1.77	1000	
52 Cr	218.30	ug/l	242.53	1.70	1000	
55 Mn	291.90	ug/l	324.30	1.28	1000	
56 Fe	891.20	ug/l	990.12	1.14	20000	
59 Co	201.10	ug/l	223.42	1.73	1000	
60 Ni	202.40	ug/l	224.87	1.84	1000	
63 Cu	184.50	ug/l	204.98	0.43	1000	
65 Cu	184.30	ug/l	204.76	0.27	1000	
66 Zn	365.30	ug/l	405.85	0.82	1000	
75 As	208.10	ug/l	231.20	0.51	1000	
78 Se	204.90	ug/l	227.64	0.71	1000	
78 Se	203.80	ug/l	226.42	0.88	1000	
88 Sr	2792.00	ug/l	3101.91	1.69	1000	>Cal
88 Sr	2868.00	ug/l	3186.35	0.57	1000	>Cal
95 Mo	235.50	ug/l	261.64	1.19	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	76.74	ug/l	85.26	0.66	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	39.73	ug/l	44.14	0.90	1000	
118 Sn	224.60	ug/l	249.53	0.57	1000	
121 Sb	219.70	ug/l	244.09	0.55	1000	
137 Ba	331.20	ug/l	367.96	1.34	1000	
205 Tl	199.10	ug/l	221.20	0.90	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	194.00	ug/l	215.53	0.33	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1521868.00	0.66	1867730.90	81.5	70 - 120	
45 Sc	803891.31	1.29	860905.50	93.4	70 - 120	
45 Sc	30319.50	2.73	30466.40	99.5	70 - 120	
45 Sc	1447694.60	0.97	1514635.40	95.6	70 - 120	
72 Ge	167894.31	0.18	175233.81	95.8	70 - 120	
72 Ge	13545.73	1.47	13286.95	101.9	70 - 120	
72 Ge	247232.08	0.83	261657.25	94.5	70 - 120	
115 In	1362237.90	0.91	1427636.50	95.4	70 - 120	
159 Tb	1665841.90	0.62	1715789.30	97.1	70 - 120	
165 Ho	1644112.00	0.81	1678833.30	97.9	70 - 120	

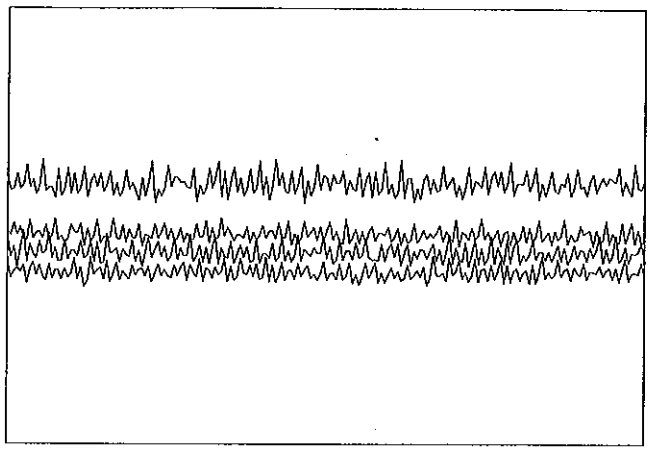
ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.D#

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

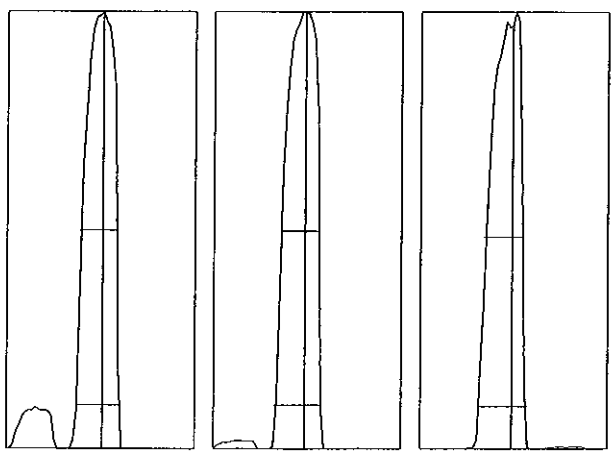
Tune Report

Tune File : nogas.u
Comment : 110428



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	0.996%
Doubly Charged:	70/140	1.295%

m/z	Range	Count	Mean	RSD%	Background
7	50,000	23358.0	24058.9	3.45	0.60
89	50,000	21041.0	21971.5	4.55	2.10
205	20,000	12128.0	11955.2	4.13	9.60
156/140	2	0.973%	1.002%	10.64	
70/140	2	1.275%	1.279%	8.41	
140	50,000	19215.0	19704.0	4.23	6.10



m/z:	7	89	205
Height:	23,978	21,703	11,735
Axis:	7.05	89.00	205.00
W-50%:	0.60	0.65	0.65
W-10%:	0.700	0.7500	0.800

Integration Time:	0.1000 sec
Acquisition Time:	22.7600 sec

Y axis : Linear

Generated : Apr 28, 2011 12:03:28
Printed : Apr 28, 2011 12:03:30

Tune Report

Tune File : nogas.u
Comment : 110428

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1600 W	Extract 1	:	0.1 V	AMU Gain	:	126
RF Matching	:	1.7 V	Extract 2	:	-110 V	AMU Offset	:	127
Smpl Depth	:	10.5 mm	Omega Bias-ce	:	-20 V	Axis Gain	:	0.9997
Torch-H	:	0.1 mm	Omega Lens-ce	:	-2.6 V	Axis Offset	:	-0.02
Torch-V	:	0.3 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	0.98 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	:	1620 V
Sample Pump	:	--- rps	OctP RF	:	170 V	Pulse HV	:	1190 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	:	--- %

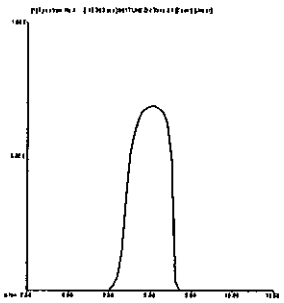
Generated : Apr 28, 2011 12:03:28
Printed : Apr 28, 2011 12:03:32

200.8 QC Tune Report

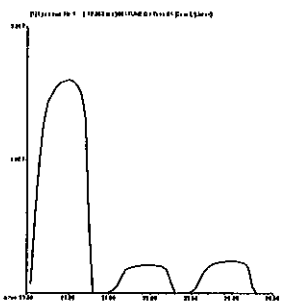
Data File: C:\ICPCHEM\1\DATA\11D28m00.B\001TUNE.D
Date Acquired: Apr 28 2011 12:09 pm
Acq. Method: TN200_8.M
Operator: SDM
Sample Name: 100ppb Tune sol
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

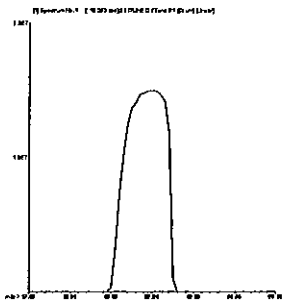
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	37699494	37467732	37631584	37553700	37887220	37957236	**0.36**	5.00	
24 Mg	92979471	92000464	92946200	92996048	93134264	93820376	**0.73**	5.00	
59 Co	89018731	88175448	89009840	88961032	89718584	89228752	**0.75**	5.00	
115 In	100212466	########	99662040	########	########	########	**0.56**	5.00	
208 Pb	42108312	42076068	42369156	42057388	42190680	41848268	**0.48**	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: 24.00
Required: 23.90 - 24.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:



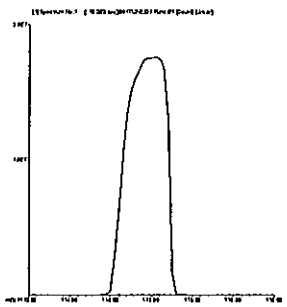
59 Co

Mass Calib.

Actual:	58.95		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.90		
Flag:			



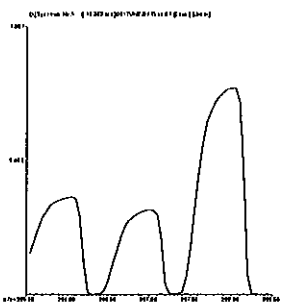
115 In

Mass Calib.

Actual:	115.00		
Required:	114.90	-	115.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



208 Pb

Mass Calib.

Actual:	207.95		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.80		
Flag:			

Tune Result: Pass

Hm 6020/6020A
4/25/11

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 4/25/2011
Expires: 5/2/2011
Prep Date 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot # 1110030
20mL HCL / 2000mL DI Water
Lot #4110060
Expires: 5/2/2011

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 4/25/2011

Standard 3 5/2/2011

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 4/25/2011

HM 4/25/11

Standard 2 5/2/2011

Amount	STD	
500 uL	Standard 4	4/25/2011

Prepared in 50 mL of 1% HNO3/1.0% HCL 4/25/2011

Standard 1 5/2/2011

Amount	STD	
50 uL	Standard 4	4/25/2011

Prepared in 50 mL of 1% HNO3/1.0% HCL 4/25/2011

ICP-MS ICV 5/2/2011

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 4/25/2011

ICSA Prep: 5/2/2011

1 mL	ICSA	CPI	11C066-28529

Prepared in 5 mL of 1% HNO3/1.0% HCL 4/25/2011

ICSAB Prep: 5/2/2011

1mL	ICSA	CPI	11C066-28529
0.025mL	INT	O2Si	1023605-28210

Prepared in 5 mL of 1% HNO3/1.0% HCL 4/25/2011

ICP-LDR 5/2/2011

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 4/25/2011

Internal Standard Concentration

Amt	STD	Element	Vendor	Lot#	Final Conc. In Std	Expires
50uL	1000 ug/mL	LI	CPI	10L079-27839	1ppm	6/10/2012
50uL	1000 ug/mL	In	CPI	09D228-25327	1ppm	4/23/2011
50uL	1000 ug/mL	Ho	CPI	09F382-25328	1ppm	4/23/2011
50uL	1000 ug/mL	Tb	CPI	09A222-25326	1ppm	4/23/2011
50uL	1000 ug/mL	Sc	o2si	1024073-28527	1ppm	8/18/2012
50uL	1000 ug/mL	Ge	Environmental Express	0932416-25995	1ppm	7/13/2011

Prep:	4/25/2011	SDM	Prep In -	1%HNO3/1.0%HCL:	Lot #1110030/4110060 in 50mL
Expires:	5/25/2011				

HM 4/25/11

_M3015

Metals Digestion Worksheet

Method Name 3015 Digestion **Prep Method** M3015 **Set** 110427A **Units** mL

Spikes			
Spiked ID 1	LCSW LOT# 11C173-28546		
Spiked ID 2	LCSW LOT# 11C172-28545		
Spiked ID 3			
Spiked ID 4			
Spiked By	NM	Date:	04/27/11 9:37:00 AM
Witnessed By	DP	Date:	04/27/11 9:37:00 AM

Starting Temp:	30°c
Ending Temp:	170°c
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	4/27/11 10:37

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	110427A Blk				45mL	50mL	04/27/11 9:37	
2	110427A LCS		450uL	1+2	45mL	50mL	04/27/11 9:37	
3	AY36311	AY36311W08			45mL	50mL	04/27/11 9:37	
4	AY36312	AY36312W29			45mL	50mL	04/27/11 9:37	
5	AY36312 MS	AY36312W30	450uL	1+2	45mL	50mL	04/27/11 9:37	
6	AY36312 MSD	AY36312W30	450uL	1+2	45mL	50mL	04/27/11 9:37	
7	AY36313	AY36313W08			45mL	50mL	04/27/11 9:37	
8	AY36316	AY36316W08			45mL	50mL	04/27/11 9:37	
9	AY36317	AY36317W08			45mL	50mL	04/27/11 9:37	
10	AY36384	AY36384W28			45mL	50mL	04/27/11 9:37	
11	AY36384 MS	AY36384W29	450uL	1+2	45mL	50mL	04/27/11 9:37	
12	AY36384 MSD	AY36384W29	450uL	1+2	45mL	50mL	04/27/11 9:37	
13	AY36385	AY36385W08			45mL	50mL	04/27/11 9:37	
14	AY36387	AY36387W08			45mL	50mL	04/27/11 9:37	

Solvent and Lot#
HNO3 BDH 1110110 2903

Sample COC Transfer	
Sample prep employee Initials	dp
Analyst's initials	HM/SDM
Date	4/28/11
Time	7:30
Moved to	Metals

Technician's Initials	
Scanned By	dp
Sample Preparation	nm
Digestion	nm
Bring up to volume	dp
Modified	04/27/11 8:40:27 AM

Reviewed By: HM 357 **Date:** 4/28/11

6020/200.8 Injection Log

Directory: K:\ICP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	28 Apr 2011	12:32	Calibration Blank		110428A	1.
2	28 Apr 2011	12:38	110425 Standard 1		110428A	1.
3	28 Apr 2011	12:44	110425 Standard 2		110428A	1.
4	28 Apr 2011	12:50	110425 Standard 3		110428A	1.
5	28 Apr 2011	12:56	110425 Standard 4		110428A	1.
6	28 Apr 2011	13:02	ICV 110425		110428A	1.
8	28 Apr 2011	13:27	CCV 110425		110428A	1.
9	28 Apr 2011	13:51	ICB 110425		110428A	1.
10	28 Apr 2011	13:57	CCB 110425		110428A	1.
11	28 Apr 2011	14:03	LDR 110425		110428A	1.
12	28 Apr 2011	14:15	ICSA 110425		110428A	1.
13	28 Apr 2011	14:21	ICSAB 110425		110428A	1.
14	28 Apr 2011	14:33	CCV 110425		110428A	1.
15	28 Apr 2011	14:57	CCB 110425		110428A	1.
17	28 Apr 2011	15:09	110427A-3015-BLK		110428A	1.
20	28 Apr 2011	15:34	110427A-3015-LCS		110428A	1.
24	28 Apr 2011	16:10	CCV 110425		110428A	1.
25	28 Apr 2011	16:22	CCB 110425		110428A	1.
37	28 Apr 2011	17:35	CCV 110425		110428A	1.
38	28 Apr 2011	17:47	CCB 110425		110428A	1.
47	28 Apr 2011	18:41	AY36384W28		110428A	1.
48	28 Apr 2011	18:47	AY36384W29 MS		110428A	1.
50	28 Apr 2011	18:59	CCV 110425		110428A	1.
51	28 Apr 2011	19:12	CCB 110425		110428A	1.
52	28 Apr 2011	19:18	AY36384W29 MSD		110428A	1.
53	28 Apr 2011	19:24	AY36385W08		110428A	1.
54	28 Apr 2011	19:30	AY36387W08		110428A	1.
63	28 Apr 2011	20:24	CCV 110425		110428A	1.
64	28 Apr 2011	20:36	CCB 110425		110428A	1.