

TABLE OF CONTENTS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C222

SECTION		PAGE
Cover Letter, COC/Sample Receipt Form		1000 – 1005
GC/MS-VOA	METHOD SW5030B/8260B	2000 – 2122
GC/MS-SVOA	**	3000 –
GC-VOA	METHOD 5030B/8015B	4000 – 4046
GC-SVOA	METHOD 3520C/8015B	5000 – 5058
	METHOD M8015 (ALCOHOLS)	5059 – 5098
	METHOD M8015 (ETHYLENE)	5099 – 5144
HPLC	**	6000 –
METALS	**	7000 –
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested



LABORATORIES, INC.

1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 04-07-2006
EMAX Batch No.: 06C222

Attn: Linda Geddes

MWH
750 Royal Oaks Dr, Suite 100
Monrovia CA 91016-3629

Subject: Laboratory Report
Project: Upgradient Investigation, Tronox

Enclosed is the Laboratory report for samples received on 03/24/06.
The data reported include :

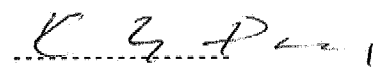
Sample ID	Control #	Col Date	Matrix	Analysis
M-121	C222-01	03/23/06	WATER	VOLATILE ORGANICS BY GC/MS METHANOL & ETHANOL DIESEL RANGE ORGANICS MOTOR OIL GASOLINE RANGE ORGANICS ETHYLENE GLYCOL
M-117	C222-02	03/23/06	WATER	VOLATILE ORGANICS BY GC/MS METHANOL & ETHANOL DIESEL RANGE ORGANICS MOTOR OIL GASOLINE RANGE ORGANICS ETHYLENE GLYCOL
H-11	C222-03	03/23/06	WATER	VOLATILE ORGANICS BY GC/MS METHANOL & ETHANOL DIESEL RANGE ORGANICS MOTOR OIL GASOLINE RANGE ORGANICS ETHYLENE GLYCOL
TRIP BLANK	C222-04	03/23/06	WATER	VOLATILE ORGANICS BY GC/MS

Sample ID	Control #	Col Date	Matrix	Analysis
M-121MS	C222-01M	03/23/06	WATER	METHANOL & ETHANOL GASOLINE RANGE ORGANICS ETHYLENE GLYCOL VOLATILE ORGANICS BY GC/MS METHANOL & ETHANOL DIESEL RANGE ORGANICS MOTOR OIL GASOLINE RANGE ORGANICS ETHYLENE GLYCOL
M-121MSD	C222-01S	03/23/06	WATER	VOLATILE ORGANICS BY GC/MS METHANOL & ETHANOL DIESEL RANGE ORGANICS MOTOR OIL GASOLINE RANGE ORGANICS ETHYLENE GLYCOL

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,



Kam Y. Pang, Ph.D.
Laboratory Director



ENSR International
1220 Avenida Acaso
Camarillo, CA 93012-8738
Phone (805) 388-3775
Fax (805) 388-3577

ANALYTICAL LAB:

EMAX Laboratories
ye Myint - (310) 618-8889 x121
1835 West 205th Street

066222

JIS

Torrance, CA 90501 SITE Henderson DATE 3/23/06 PAGE 1 OF 1

CLIENT			ANALYTICAL METHODS										TURN-AROUND TIME									
PROJECT NAME: <i>Upgrades Investigation</i>													standard									
PROJECT MANAGER: <i>Dave Gentry</i>													OBSERVATIONS/ COMMENTS									
JOB #: <i>04020-023-150</i>																						
COELT LOG CODE: YES <input type="checkbox"/> NO <input type="checkbox"/>																						
SAMPLER SIGNATURE: <i>Brian Ho</i>																						
SIGNATURE: <i>Brian Ho</i>																						
LINE ITEM	SAMPLE NO.	DATE	TIME	8260B / 5035 Volatile Organics	8260B BTEX / MTBE / Oxygenates	8015 Diesel / Gasoline (Full Range)	8081A Pesticides	CAM 17 Metals	Fuel Alcohols	ANALYTICAL METHODS										MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS
1	M-121	3/23/06	08:30	X		X			X										W 12			
2	M-121 MS/MSD	3/23/06	08:55	X		X			X										W 6 12			
3	M-117	3/23/06	14:50	X		X			X										W 6 12			
4	H-11	3/23/06	15:20	X		X			X										W 6 12			
	Trip Blank	3/23/06	-	X		X			X										W 6 3			
6.																						
7.																						
8.																						
9.																						
10.																						

TEMPERATURE BLANK EACH COOLER YES NO

T = 2.5 C

PRESERVATIVES: All samples are preserved on ice. Water samples are preserved as indicated on the sample labels.

MATRIX S - Soil TYPE: W - Water O - Other	CONTAINER G - Glass Bottle TYPE: P - Plastic O - Other	PRESERVATIVES: All samples are preserved on ice. Water samples are preserved as indicated on the sample labels.		TOTAL NUMBER OF CONTAINERS	
RELINQUISHED BY: <i>Brian Ho</i>	SIGNATURE: <i>Brian Ho</i>	DATE: 3/23/06	TIME: 16:35	METHOD OF SHIPMENT: <i>Federal Express</i>	
RECEIVED BY: <i>Federal Express</i>	SIGNATURE: <i>Federal Express</i>	DATE: 3/23/06	TIME: 16:35	SPECIAL SHIMENT/HANDLING/STORAGE REQUIREMENTS:	
RELINQUISHED BY:	SIGNATURE:	DATE:	TIME:		
RECEIVED BY: <i>L. G. L.</i>	SIGNATURE: <i>L. G. L.</i>	DATE: 3/24/06	TIME: 9:15A		

DISTRIBUTION: White and Canary = Laboratory Pink = ENSR International Serial No. 5165

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN	06C222
<input type="checkbox"/> EMAX Courier		Recipient	Patel
<input type="checkbox"/> Client Delivery	Fedex	Date	3-24-06
<input checked="" type="checkbox"/> Third Party	856241668687	Time	09:15

COC Inspection		
<input checked="" type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time/Location
<input checked="" type="checkbox"/> Address	<input type="checkbox"/> Courier Signature/Date/Time	<input checked="" type="checkbox"/> Analysis Required
<input checked="" type="checkbox"/> Client PM/FC	<input type="checkbox"/> TAT	<input checked="" type="checkbox"/> Matrix
<input checked="" type="checkbox"/> Tel #/Fax #	<input checked="" type="checkbox"/> Sample ID	<input type="checkbox"/> Preservative (if any)
Safety Issues <input checked="" type="checkbox"/> None	<input type="checkbox"/> High Concentrations expected	<input type="checkbox"/> Superfund Site Samples
Comments: <input type="checkbox"/> Rad Screening Required		

Packaging Inspection			
Container <input checked="" type="checkbox"/> Cooler	<input type="checkbox"/> Box	<input type="checkbox"/>	<input type="checkbox"/>
Condition <input type="checkbox"/> Custody Seal	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged	<input type="checkbox"/>
Packaging <input checked="" type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input checked="" type="checkbox"/> Sufficient	<input type="checkbox"/>
Temperatures <input type="checkbox"/> Cooler 1 <u>2.5</u>	<input checked="" type="checkbox"/> Cooler 2 _____	<input type="checkbox"/> Cooler 3 _____	<input type="checkbox"/> Cooler 4 _____
<input type="checkbox"/> Cooler 5 _____	<input type="checkbox"/> Cooler 6 _____	<input type="checkbox"/> Cooler 7 _____	<input type="checkbox"/> Cooler 8 _____
<input type="checkbox"/> Cooler 9 _____	<input type="checkbox"/> Cooler 10 _____	<input type="checkbox"/> Cooler 11 _____	<input type="checkbox"/> Cooler 12 _____
Comments:			

LSCID	Client ID	Discrepancy	Corrective Action
C222-1		No collection time in 2004 bottles.	Informed client JM 3/24/06
C222-2			
C222-3			
C222-4			
		No client label, only EMAX-Trip Blank-1st No. TB-01-06-02	

LSCID : Lab Sample Container ID

REVIEWS

Sample Labeling Leitch
Date 3/24/06

SRF Leitch
Date 3/24/06

PM Leitch
Date 3/24/06

FedEx US Airbill
Express

FedEx
Tracking
Number

8562 4166 8687

1 From
Date 3/24/06

Sender's Name
Brian Ho Phone 805 795-3334

Company
ENSR 06 C 222

Address
1220 Avenida Acaso 9:150

City
Comarillo State CA ZIP 93012

2 Your Internal Billing Reference
01020-023-150

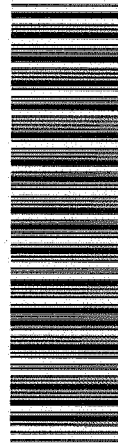
3 To
Recipient's Name
Ye Myint Phone 310 618-8889

Company
EMAX LABORATORIES, INC

Recipient's Address
1835 West 2054 Street

We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
Torrance State CA ZIP 90501

To request a package be held at a specific FedEx location, print FedEx address here.



8562 4166 8687

0200

0200

4a Express Package Service

FedEx Priority Overnight
Next business day, Monday through Friday, unless SATURDAY Delivery is selected.

FedEx Standard Overnight
Next business day, Monday through Friday, unless SATURDAY Delivery is selected.

FedEx Express Server
Second business day, Monday through Friday, unless SATURDAY Delivery is selected.

4b Express Freight Service

FedEx 1Day Freight*
Next business day, Monday through Friday, unless SATURDAY Delivery is selected.

FedEx 2Day Freight
Second business day, Monday through Friday, unless SATURDAY Delivery is selected.

FedEx 3Day Freight
Third business day, Monday through Friday, unless SATURDAY Delivery is selected.

5 Packaging
 FedEx Envelope*
 FedEx Pak*
 FedEx Tube
 Other

6 Special Handling
 SATURDAY Delivery
 HOLD Saturday at FedEx Location
 HOLD Saturday at FedEx Location (Priority)
 HOLD Saturday at FedEx Location (Priority)
 HOLD Saturday at FedEx Location (Priority)

7 Payment Bill to:
 Recipient
 Third Party
 Credit Card
 Cash/Check

8 NEW Residential Delivery Signature Options
 No Signature Required
 Direct Signature
 Indirect Signature

Total Packages 1
Total Weight 0.05
Total Declared Value* \$500.00
Total Charges 0.00
Credit Card Amt. 0.00

Our liability is limited to \$500 unless you declare a higher value. See back for details.

Rev. Date 8/05-Per 4752300-100-0001 FedEx-PRINTED IN U.S.A. 8/05

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD SW5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 06C222

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C222

METHOD SW 5030B/8260B VOLATILE ORGANICS BY GC/MS

Four (4) water samples were received on 03/24/06 for Volatile Organic analysis by Method 5030B/8260B in accordance with USEPA SW846, 3rd ed.

1. Holding Time

Analytical holding time was met.

2. Tuning and Calibration

Tuning and calibration were carried out at 12-hour interval. All QC requirements were met.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

Recoveries were within QC limit.

5. Lab Control Sample/Lab Control Sample Duplicate

Recoveries were within QC limit.

6. Matrix Spike/Matrix Spike Duplicate

Sample C222-01 was spiked. All recoveries were within QC limit.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : ENSR
Project : UPGRADE INVESTIGATION, TRONOX

SDG NO. : 06C222
Instrument ID : T-067

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	WATER		Extraction Date/Time	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
				Analysis Date/Time	Extraction Date/Time					
MBLK1W	V067C47Q	1	NA	03/30/0608:00	03/30/0608:00	RCC677	RCC488	V067C47	Method Blank	
LCS1W	V067C47L	1	NA	03/30/0606:13	03/30/0606:13	RCC674	RCC488	V067C47	Lab Control Sample (LCS)	
LCD1W	V067C47C	1	NA	03/30/0606:48	03/30/0606:48	RCC675	RCC488	V067C47	LCS Duplicate	
TRIP BLANK	C222-04	1	NA	03/30/0611:42	03/30/0611:42	RCC683	RCC488	V067C47	Field Sample	
M-121	C222-01	1	NA	03/30/0612:53	03/30/0612:53	RCC685	RCC488	V067C47	Field Sample	
M-117	C222-02	1	NA	03/30/0613:29	03/30/0613:29	RCC686	RCC488	V067C47	Field Sample	
H-11	C222-03	1	NA	03/30/0614:05	03/30/0614:05	RCC687	RCC488	V067C47	Field Sample	
M-121MS	C222-01M	1	NA	03/30/0615:16	03/30/0615:16	RCC689	RCC488	V067C47	Matrix Spike Sample (MS)	
M-121MSD	C222-01S	1	NA	03/30/0615:52	03/30/0615:52	RCC690	RCC488	V067C47	MS Duplicate (MSD)	

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : ENSR
Project     : UPGRADE INVESTIGATION, TRONOX
Batch No.  : 06C222
Sample ID   : M-121
Lab Samp ID: C222-01
Lab File ID: RCC685
Ext Btch ID: V067C47
Calib. Ref.: RCC488
Date Collected: 03/23/06
Date Received: 03/24/06
Date Extracted: 03/30/06 12:53
Date Analyzed: 03/30/06 12:53
Dilution Factor: 1
Matrix      : WATER
% Moisture  : NA
Instrument ID: T-067
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	112	70-140
4-BROMOFLUOROBENZENE	127	70-130
TOLUENE-D8	112	70-140

Data File : D:\HPCHEM\1\DATA\06C29\RCC685.D

Vial: 16

Acq On : 30 Mar 2006 12:53 pm

Operator: CGM

Sample : 06C222-01 / 5.0mL

Inst : TO67

Misc : DF=1.0

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Apr 3 14:21 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2352252	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	1984448	50.00	ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.52	152	552082	50.00	ug/l	0.01
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	573166	56.16	ug/l	0.01
Spiked Amount	50.000		Recovery	=	112.32%	
49) Toluene-d8	12.69	98	2443379	55.81	ug/l	0.01
Spiked Amount	50.000		Recovery	=	111.62%	
70) 4-Bromofluorobenzene	18.48	95	743286	63.31	ug/l	0.01
Spiked Amount	50.000		Recovery	=	126.62%	
Target Compounds						
30) Chloroform	8.77	83	12605	0.56	ug/l	Qvalue 98

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

RCC685.D VO67C23.M Mon Apr 03 14:22:06 2006

Page 1

2005

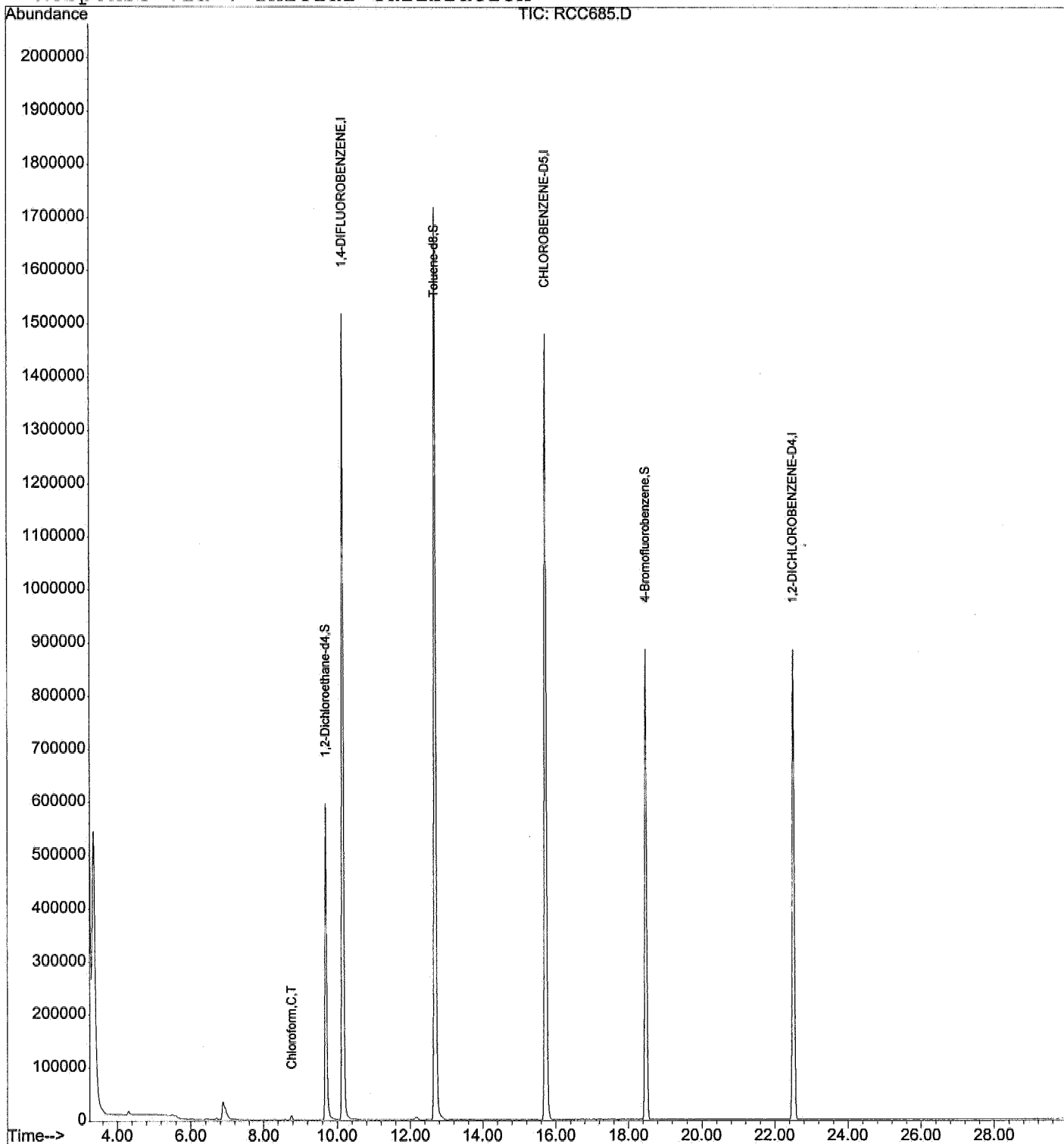
Quantitation Report

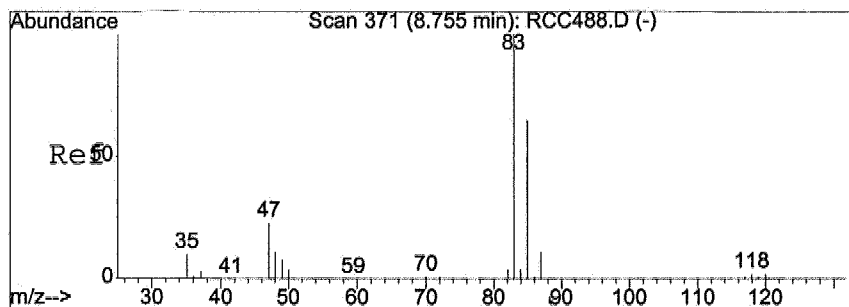
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Acq On : 30 Mar 2006 12:53 pm
Sample : 06C222-01 5.0mL
Misc : DF=1.0
MS Integration Params: LSCINT.P
Quant Time: Apr 3 14:21 2006

Vial: 16
Operator: CGM
Inst : T067
Multiplr: 1.00

Quant Results File: VO67C23.RES

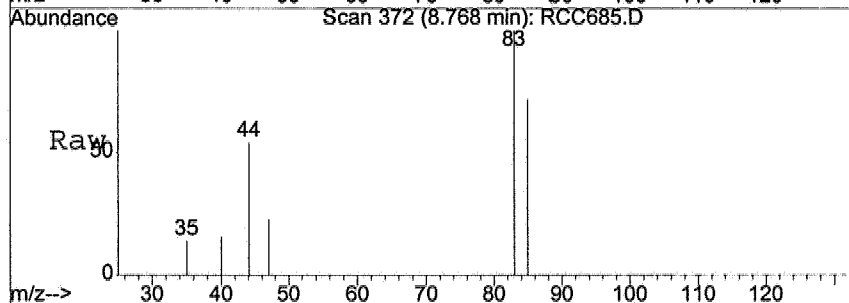
Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration





#30
 Chloroform
 Concen: 0.56 ug/l
 RT: 8.77 min Scan# 372
 Delta R.T. 0.01 min
 Lab File: RCC685.D
 Acq: 30 Mar 2006 12:53 pm

Tgt Ion:	83	Resp:	12605
Ion Ratio	Lower	Upper	
83	100		
85	66.1	34.9	94.9
47	21.7	0.0	53.5

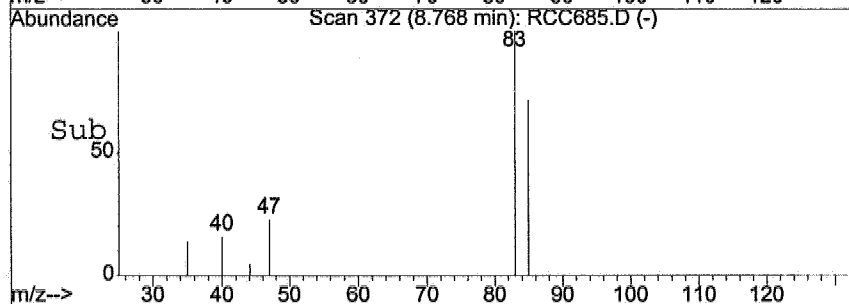
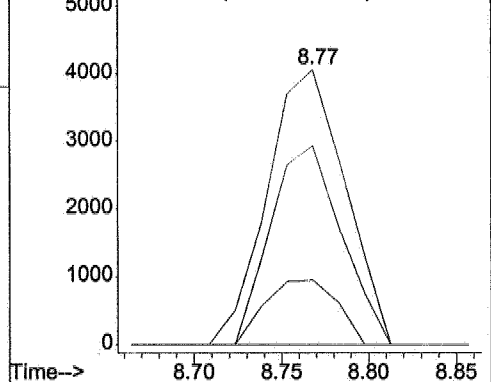


Abundance

Ion 83.00 (82.70 to 83.70): RCC685.D

Ion 85.00 (84.70 to 85.70): RCC685.D

Ion 47.00 (46.70 to 47.70): RCC685.D



SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : ENSR                               Date Collected: 03/23/06
Project    : UPGRADE INVESTIGATION, TRONOX      Date Received: 03/24/06
Batch No.  : 06C222                             Date Extracted: 03/30/06 13:29
Sample ID  : M-117                               Date Analyzed: 03/30/06 13:29
Lab Samp ID: C222-02                             Dilution Factor: 1
Lab File ID: RCC686                             Matrix: WATER
Ext Btch ID: V067C47                           % Moisture: NA
Calib. Ref.: RCC488                             Instrument ID: T-067
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	5J	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5
SURROGATE PARAMETERS			
1,2-DICHLOROETHANE-D4	% RECOVERY	QC LIMIT	
4-BROMOFLUOROBENZENE	113	70-140	
TOLUENE-D8	129	70-130	
	109	70-140	

Data File : D:\HPCHEM\1\DATA\06C29\RCC686.D

Vial: 17

Acq On : 30 Mar 2006 1:29 pm

Operator: CGM

Sample : 06C222-02 5.0mL

Inst : TO67

Misc : DF=1.0

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Apr 3 14:22 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.16	114	2364880	50.00	ug/l	0.02
36) CHLOROBENZENE-D5	15.72	117	2068341	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.51	152	550550	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.70	65	578767	56.40	ug/l	0.02
Spiked Amount	50.000		Recovery	=	112.80%	
49) Toluene-d8	12.70	98	2494897	54.67	ug/l	0.02
Spiked Amount	50.000		Recovery	=	109.34%	
70) 4-Bromofluorobenzene	18.47	95	756802	64.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	129.30%	
Target Compounds						
11) Acetone	6.04	43	13472	5.05	ug/l	95
30) Chloroform	8.76	83	11556	0.51	ug/l	92

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

RCC686.D VO67C23.M Mon Apr 03 14:22:52 2006

Page 1

2009

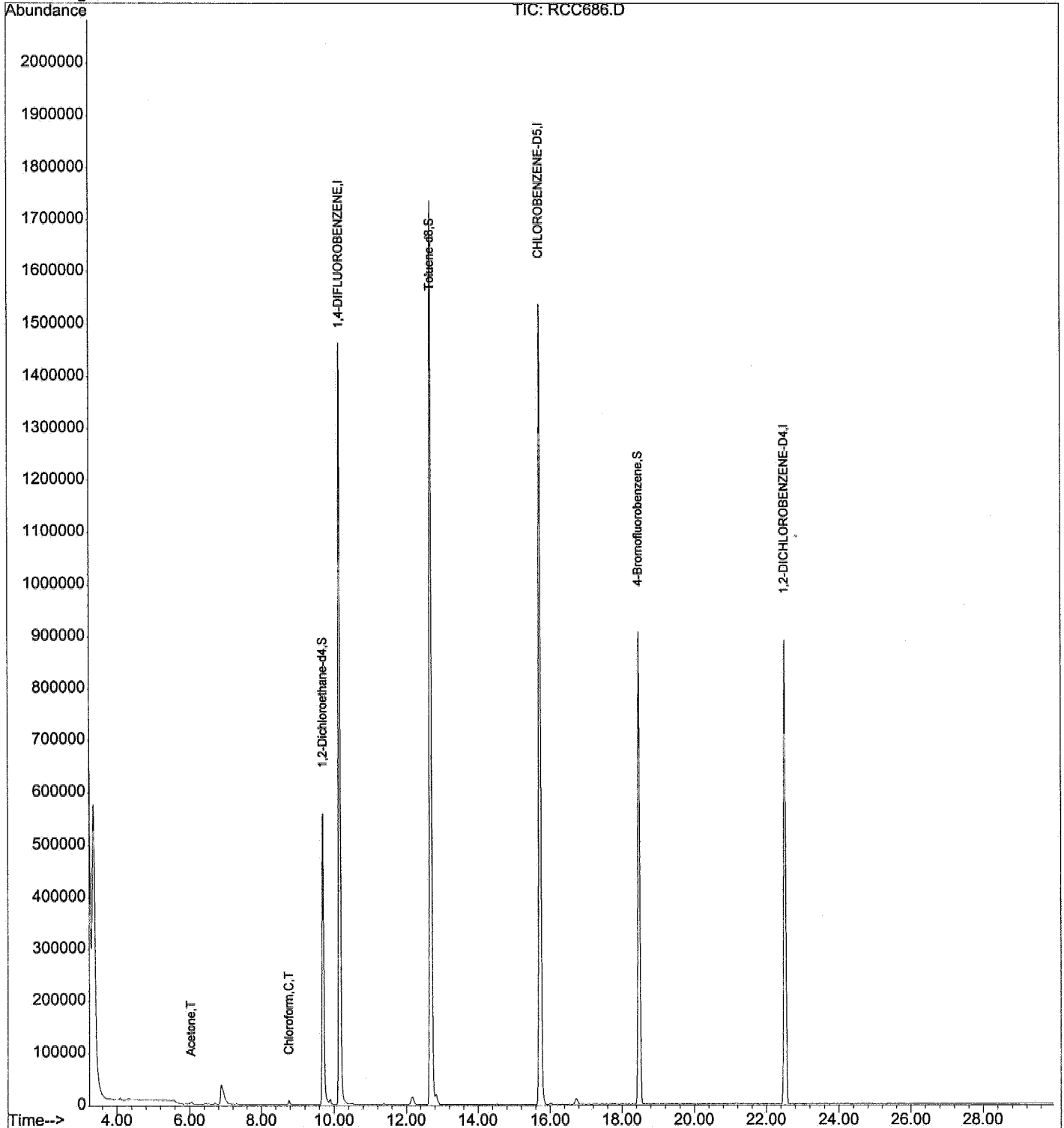
Quantitation Report

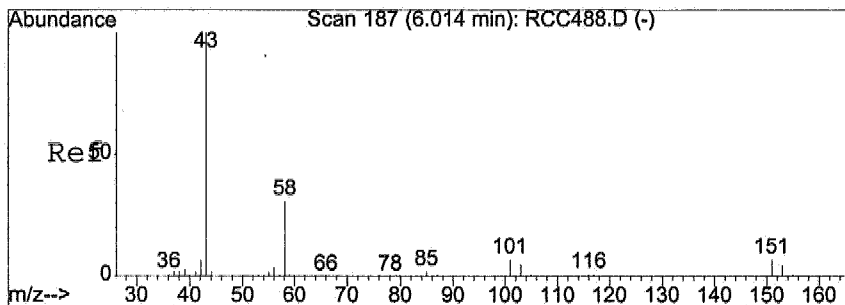
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Acq On : 30 Mar 2006 1:29 pm
Sample : 06C222-02 5.0mL
Misc : DF=1.0
MS Integration Params: LSCINT.P
Quant Time: Apr 3 14:22 2006

Vial: 17
Operator: CGM
Inst : T067
Multiplr: 1.00

Quant Results File: VO67C23.RES

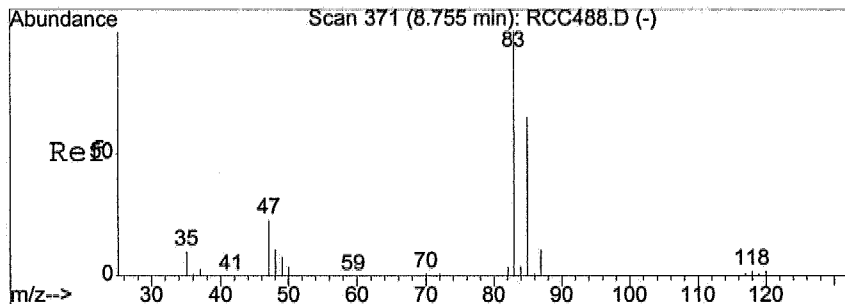
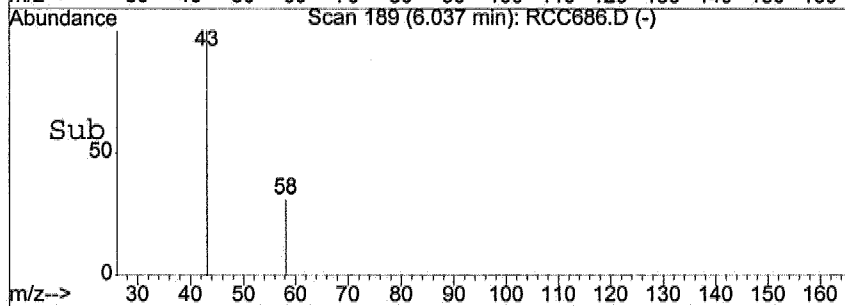
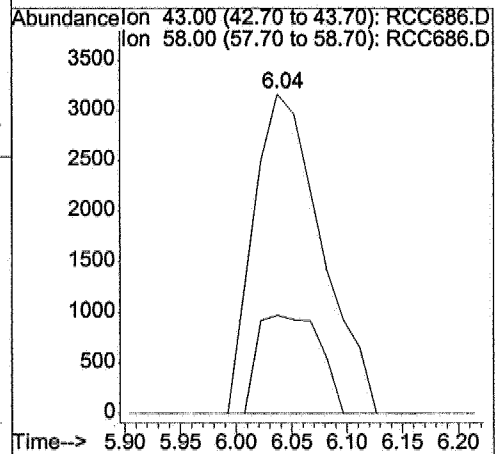
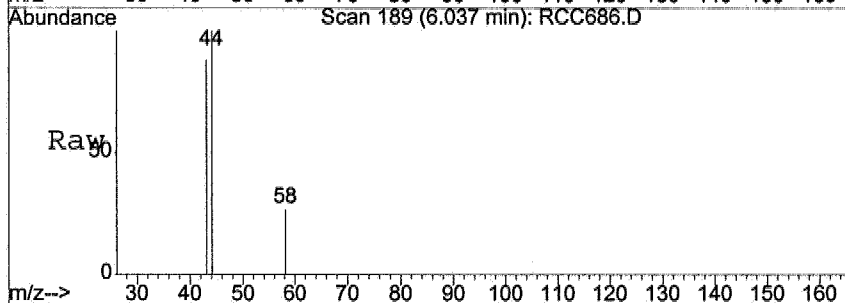
Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration





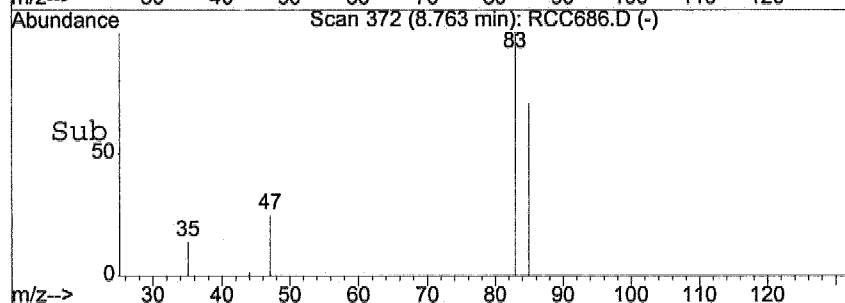
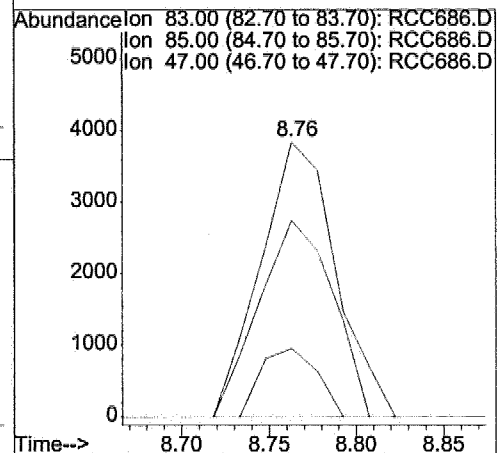
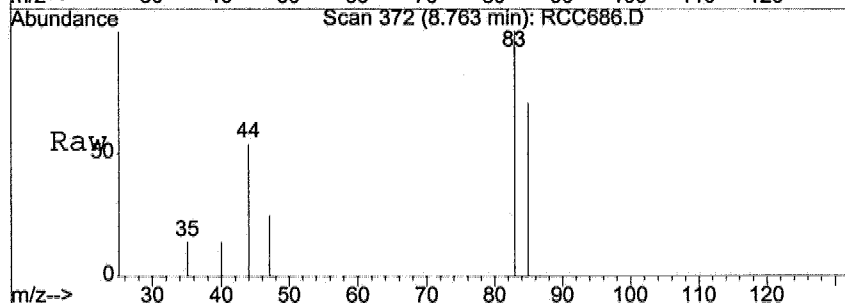
#11
 Acetone
 Concen: 5.05 ug/l
 RT: 6.04 min Scan# 189
 Delta R.T. 0.02 min
 Lab File: RCC686.D
 Acq: 30 Mar 2006 1:29 pm

Tgt Ion: 43 Resp: 13472
 Ion Ratio Lower Upper
 43 100
 58 28.5 1.3 61.3



#30
 Chloroform
 Concen: 0.51 ug/l
 RT: 8.76 min Scan# 372
 Delta R.T. 0.01 min
 Lab File: RCC686.D
 Acq: 30 Mar 2006 1:29 pm

Tgt Ion: 83 Resp: 11556
 Ion Ratio Lower Upper
 83 100
 85 70.5 34.9 94.9
 47 18.6 0.0 53.5



SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

```

=====
Client       : ENSR                               Date Collected: 03/23/06
Project      : UPGRADE INVESTIGATION, TRONOX    Date Received:   03/24/06
Batch No.    : 06C222                           Date Extracted: 03/30/06 14:05
Sample ID    : H-11                             Date Analyzed:  03/30/06 14:05
Lab Samp ID  : C222-03                          Dilution Factor: 1
Lab File ID  : RCC687                           Matrix          : WATER
Ext Btch ID  : V067C47                         % Moisture     : NA
Calib. Ref.  : RCC488                           Instrument ID   : T-067
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	33	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	11	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	115	70-140
4-BROMOFLUOROBENZENE	126	70-130
TOLUENE-D8	109	70-140

Data File : D:\HPCHEM\1\DATA\06C29\RCC687.D

Vial: 18

Acq On : 30 Mar 2006 2:05 pm

Operator: CGM

Sample : 06C222-03 5.0mL

Inst : TO67

Misc : DF=1.0

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Apr 3 14:27 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2352292	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	2064091	50.00	ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.51	152	572799	50.00	ug/l	0.01
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	584423	57.26	ug/l	0.01
Spiked Amount	50.000		Recovery	=	114.52%	
49) Toluene-d8	12.70	98	2484165	54.55	ug/l	0.03
Spiked Amount	50.000		Recovery	=	109.10%	
70) 4-Bromofluorobenzene	18.48	95	769340	63.16	ug/l	0.01
Spiked Amount	50.000		Recovery	=	126.32%	
Target Compounds						
11) Acetone	6.04	43	28944	10.90	ug/l	97
50) Toluene	12.85	91	1791682	32.96	ug/l	100

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

RCC687.D VO67C23.M Mon Apr 03 14:27:48 2006

Page 1

2013

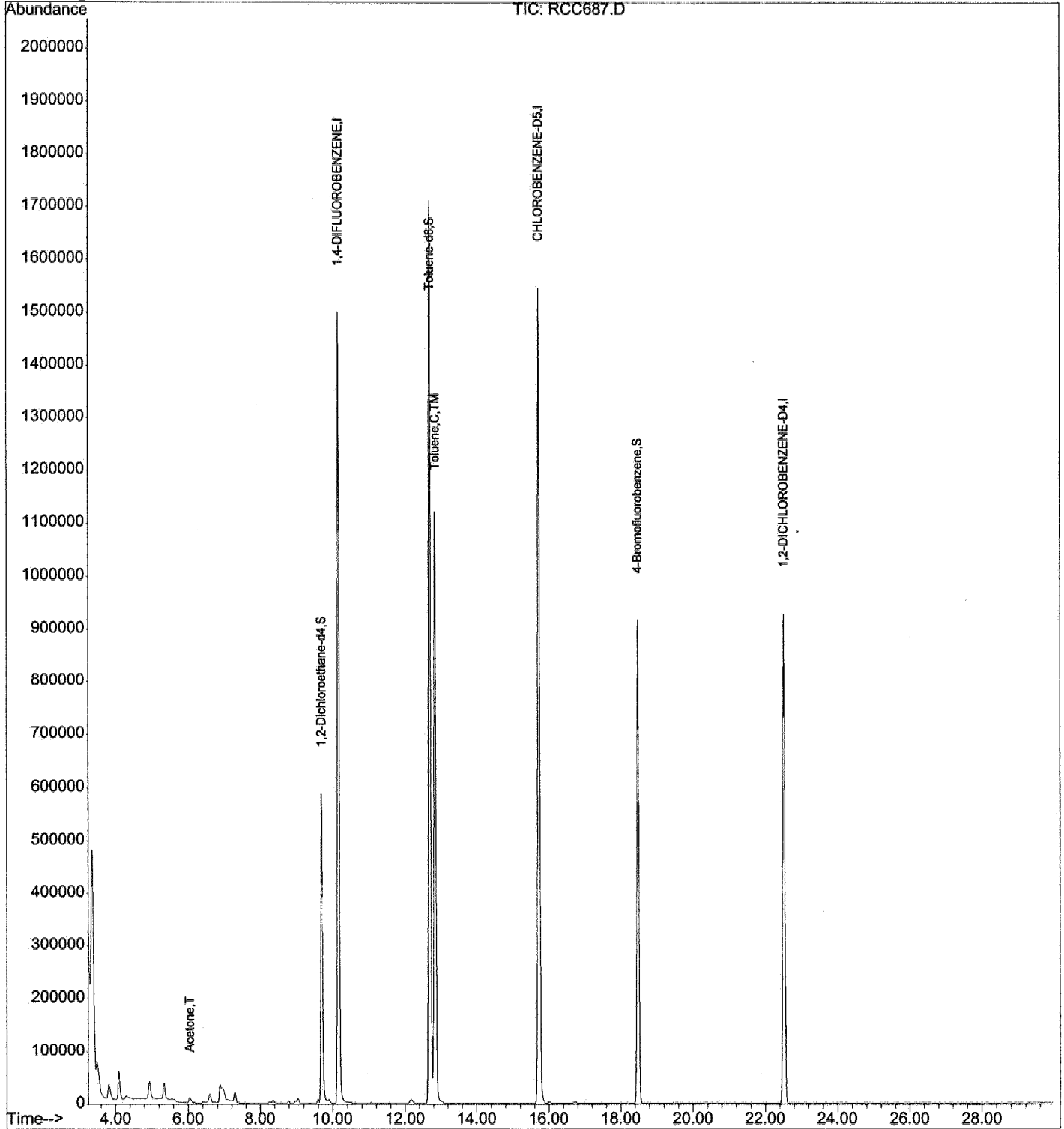
Quantitation Report

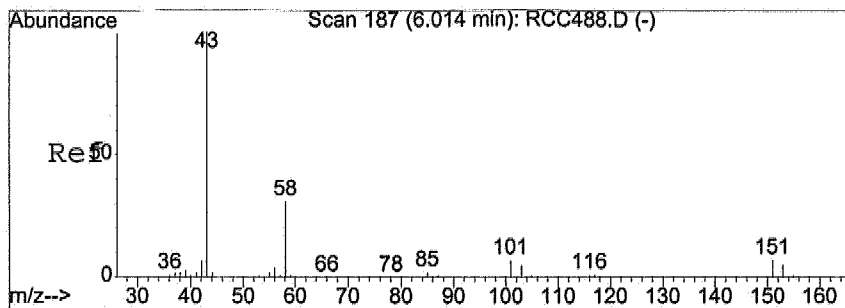
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Acq On : 30 Mar 2006 2:05 pm
Sample : 06C222-03 5.0mL
Misc : DF=1.0
MS Integration Params: LSCINT.P
Quant Time: Apr 3 14:27 2006

Vial: 18
Operator: CGM
Inst : T067
Multiplr: 1.00

Quant Results File: VO67C23.RES

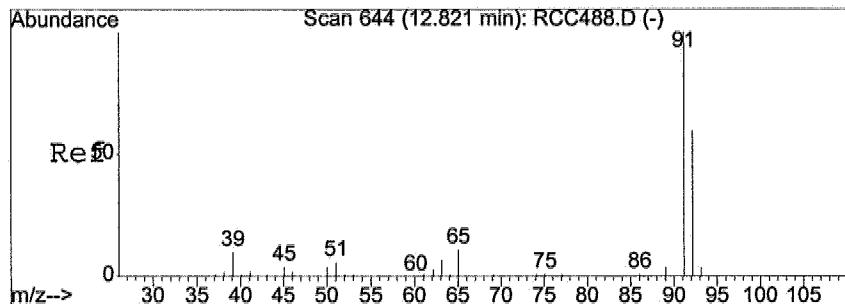
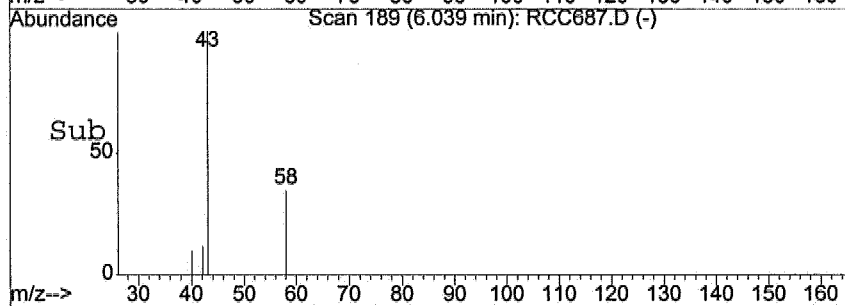
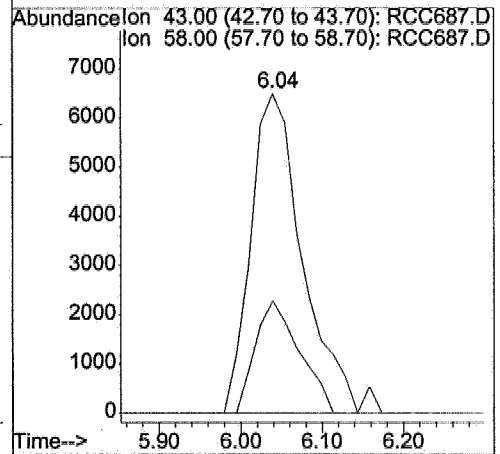
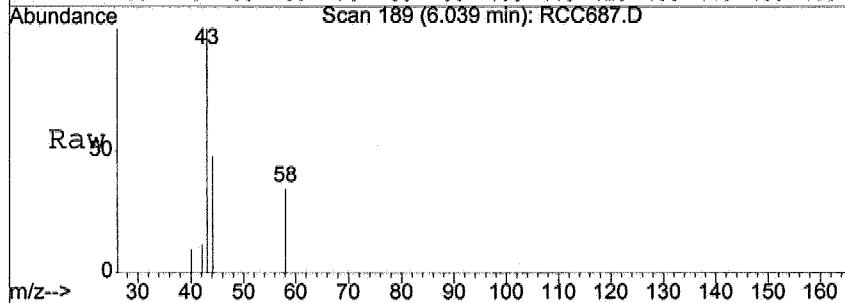
Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration





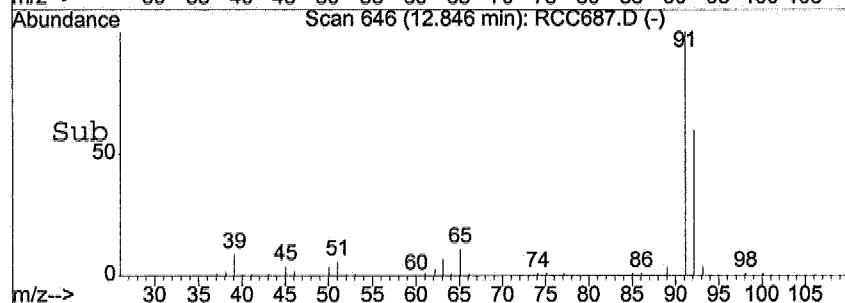
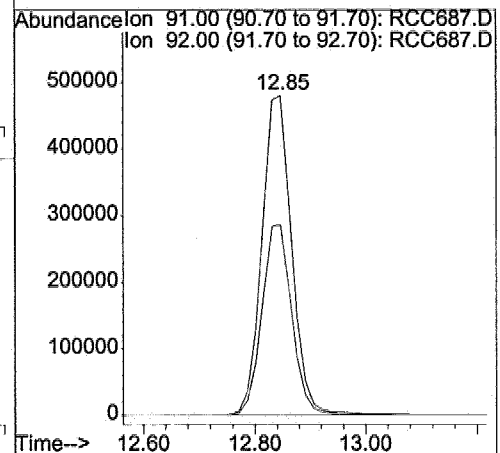
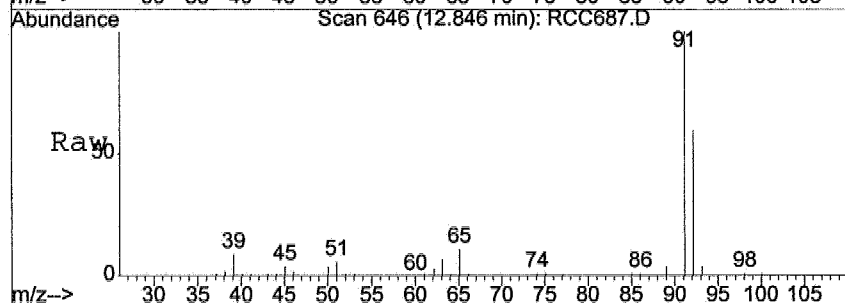
#11
 Acetone
 Concen: 10.90 ug/l
 RT: 6.04 min Scan# 189
 Delta R.T. 0.03 min
 Lab File: RCC687.D
 Acq: 30 Mar 2006 2:05 pm

Tgt Ion: 43 Resp: 28944
 Ion Ratio Lower Upper
 43 100
 58 29.8 1.3 61.3



#50
 Toluene
 Concen: 32.96 ug/l
 RT: 12.85 min Scan# 646
 Delta R.T. 0.03 min
 Lab File: RCC687.D
 Acq: 30 Mar 2006 2:05 pm

Tgt Ion: 91 Resp: 1791682
 Ion Ratio Lower Upper
 91 100
 92 60.0 30.1 90.1



SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

```

=====
Client   : ENSR                               Date Collected: 03/23/06
Project  : UPGRADE INVESTIGATION, TRONOX     Date Received: 03/24/06
Batch No.: 06C222                            Date Extracted: 03/30/06 11:42
Sample ID: TRIP BLANK                       Date Analyzed: 03/30/06 11:42
Lab Samp ID: C222-04                        Dilution Factor: 1
Lab File ID: RCC683                         Matrix: WATER
Ext Btch ID: V067C47                       % Moisture: NA
Calib. Ref.: RCC488                         Instrument ID: T-067
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	5
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5
SURROGATE PARAMETERS	% RECOVERY	QC LIMIT	
1,2-DICHLOROETHANE-D4	110	70-140	
4-BROMOFLUOROBENZENE	128	70-130	
TOLUENE-D8	109	70-140	

Data File : D:\HPCHEM\1\DATA\06C29\RCC683.D
 Acq On : 30 Mar 2006 11:42 am
 Sample : 06C222-04 / 5.0mL
 Misc : DF=1.0 TB
 MS Integration Params: LSCINT.P
 Quant Time: Apr 3 14:19 2006

Vial: 16
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2440646	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	2128180	50.00	ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.52	152	588933	50.00	ug/l	0.01
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	583706	55.12	ug/l	0.01
Spiked Amount						
					Recovery = 110.24%	
49) Toluene-d8	12.69	98	2554194	54.40	ug/l	0.01
Spiked Amount						
					Recovery = 108.80%	
70) 4-Bromofluorobenzene	18.48	95	798931	63.80	ug/l	0.01
Spiked Amount						
					Recovery = 127.60%	

Target Compounds

Qvalue

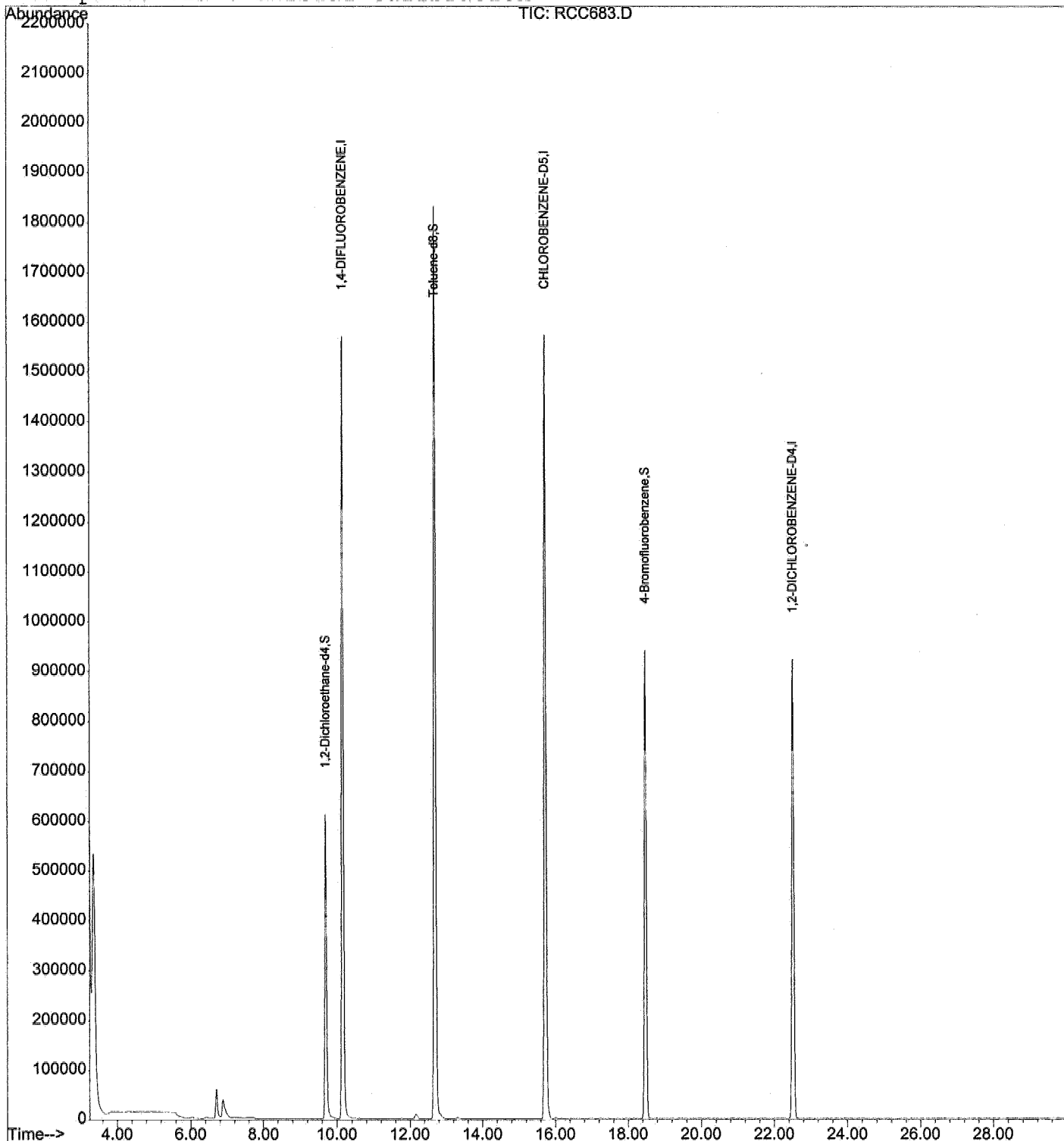
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC683.D
Acq On : 30 Mar 2006 11:42 am
Sample : 06C222-04 5.0mL
Misc : DF=1.0 TB
MS Integration Params: LSCINT.P
Quant Time: Apr 3 14:19 2006

Vial: 16
Operator: CGM
Inst : T067
Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



QC SUMMARIES

SW 5030B/8260B
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : ENSR                               Date Collected: NA
Project    : UPGRADE INVESTIGATION, TRONOX     Date Received: 03/30/06
Batch No.  : 06C222                             Date Extracted: 03/30/06 08:00
Sample ID  : MBLK1W                             Date Analyzed: 03/30/06 08:00
Lab Samp ID: V067C47Q                          Dilution Factor: 1
Lab File ID: RCC677                             Matrix: WATER
Ext Btch ID: V067C47                           % Moisture: NA
Calib. Ref.: RCC488                            Instrument ID: T-067
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	5	1
1,1,1-TRICHLOROETHANE	ND	5	1
1,1,2,2-TETRACHLOROETHANE	ND	5	1
1,1,2-TRICHLOROETHANE	ND	5	1
1,1-DICHLOROETHANE	ND	5	1
1,1-DICHLOROETHENE	ND	5	1
1,1-DICHLOROPROPENE	ND	5	1
1,2,3-TRICHLOROBENZENE	ND	5	1
1,2,3-TRICHLOROPROPANE	ND	5	1
1,2,4-TRICHLOROBENZENE	ND	5	1
1,2,4-TRIMETHYLBENZENE	ND	5	1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5	1
1,2-DICHLOROBENZENE	ND	5	1
1,2-DICHLOROETHANE	ND	5	1
1,2-DICHLOROPROPANE	ND	5	1
1,2-DIBROMOETHANE	ND	5	1
1,3,5-TRIMETHYLBENZENE	ND	5	1
1,3-DICHLOROBENZENE	ND	5	1
1,3-DICHLOROPROPANE	ND	5	1
1,4-DICHLOROBENZENE	ND	5	1
1-CHLOROHEXANE	ND	5	1
2,2-DICHLOROPROPANE	ND	5	1
2-CHLOROTOLUENE	ND	5	1
4-CHLOROTOLUENE	ND	5	1
BENZENE	ND	5	1
BROMOBENZENE	ND	5	1
BROMOCHLOROMETHANE	ND	5	1
BROMODICHLOROMETHANE	ND	5	1
BROMOFORM	ND	5	1
BROMOMETHANE	ND	10	1
CARBON TETRACHLORIDE	ND	5	1
CHLOROBENZENE	ND	5	1
CHLOROETHANE	ND	5	1
CHLOROFORM	ND	5	1
CHLOROMETHANE	ND	5	1
CIS-1,2-DICHLOROETHENE	ND	5	1
CIS-1,3-DICHLOROPROPENE	ND	5	1
DIBROMOCHLOROMETHANE	ND	5	1
DIBROMOMETHANE	ND	5	1
DICHLORODIFLUOROMETHANE	ND	5	1
ETHYLBENZENE	ND	5	1
HEXACHLOROBUTADIENE	ND	10	1
ISOPROPYL BENZENE	ND	5	1
XYLENES	ND	10	2
METHYLENE CHLORIDE	ND	10	1
N-BUTYLBENZENE	ND	5	1
N-PROPYLBENZENE	ND	5	1
NAPHTHALENE	ND	5	1
P-ISOPROPYLTOLUENE	ND	5	1
SEC-BUTYLBENZENE	ND	5	1
STYRENE	ND	5	1
TERT-BUTYLBENZENE	ND	5	1
TETRACHLOROETHYLENE	ND	5	1
TOLUENE	ND	5	1
TRANS-1,2-DICHLOROETHENE	ND	5	1
TRANS-1,3-DICHLOROPROPENE	ND	5	1
TRICHLOROETHENE	ND	5	1
TRICHLOROFLUOROMETHANE	ND	5	1
VINYL CHLORIDE	ND	5	1
ACETONE	ND	10	5
2-BUTANONE	ND	10	5
MTBE	ND	5	1
4-METHYL-2-PENTANONE	ND	10	5
DIPE	ND	5	1
ETBE	ND	5	1
TAME	ND	5	1
TERT-BUTANOL	ND	50	10
2-HEXANONE	ND	10	5
SURROGATE PARAMETERS			
1,2-DICHLOROETHANE-D4	% RECOVERY	QC LIMIT	
4-BROMOFLUOROBENZENE	97	70-140	
TOLUENE-D8	121	70-130	
	104	70-130	

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADE INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: SW 5030B/8260B

MATRIX: WATER
DILUTION FACTOR: 1 1 % MOISTURE: NA
SAMPLE ID: MBLK1W
LAB SAMP ID: V067C47Q V067C47L V067C47C
LAB FILE ID: RCC677 RCC674 RCC675
DATE EXTRACTED: 03/30/0608:00 03/30/0606:13 03/30/0606:48 DATE COLLECTED: NA
DATE ANALYZED: 03/30/0608:00 03/30/0606:13 03/30/0606:48 DATE RECEIVED: 03/30/06
PREP. BATCH: V067C47 V067C47 V067C47
CALIB. REF: RCC488 RCC488 RCC488

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,2-Tetrachloroethane	ND	20	20.2	101	20	19.7	99	2	70-130	30
1,1,1-Trichloroethane	ND	20	19.7	98	20	19.3	96	2	70-130	30
1,2,2-Tetrachloroethane	ND	20	19.9	99	20	18.7	94	2	70-130	30
1,2-Trichloroethane	ND	20	19.7	99	20	19.4	97	2	70-130	30
1,1-Dichloroethane	ND	20	20.6	103	20	20.1	101	2	70-130	30
1-Dichloroethene	ND	20	19.5	97	20	18.9	94	2	70-130	30
1-Dichloropropene	ND	20	19.3	96	20	18.8	93	2	70-130	30
1,2,3-Trichlorobenzene	ND	20	15.8	79	20	15.6	77	2	60-130	30
1,2,3-Trichloropropane	ND	20	21	105	20	19.9	100	2	70-130	30
1,2,4-Trichlorobenzene	ND	20	16.3	81	20	15.6	78	2	60-130	30
1,2,4-Trimethylbenzene	ND	20	20	100	20	19.2	96	2	70-130	30
1,2-Dibromo-3-chloropropane	ND	20	17.1	86	20	16.5	83	2	60-130	30
1,2-Dichlorobenzene	ND	20	19.9	100	20	19.5	97	2	70-130	30
1,2-Dichloroethane	ND	20	19.9	100	20	19.5	97	2	70-130	30
1,2-Dichloropropene	ND	20	19.7	99	20	19.7	98	2	70-130	30
1,2-Dibromoethane	ND	20	19.8	99	20	19.7	97	2	70-130	30
1,3,5-Trimethylbenzene	ND	20	20.5	102	20	19.9	99	2	70-130	30
1,3-Dichlorobenzene	ND	20	19.8	99	20	19.6	96	2	70-130	30
1,3-Dichloropropane	ND	20	19.6	98	20	19.5	96	2	70-130	30
1,4-Dichlorobenzene	ND	20	19.4	97	20	18.9	94	2	70-130	30
1-Chlorohexane	ND	20	19.3	97	20	18.9	94	2	70-130	30
2,2-Dichloropropane	ND	20	18.8	94	20	18.3	92	2	50-130	30
2-Chlorotoluene	ND	20	19.7	98	20	19.9	100	2	70-130	30
4-Chlorotoluene	ND	20	21.2	106	20	19.2	96	2	70-130	30
Benzene	ND	20	19.8	99	20	19.2	97	2	70-130	30
Bromobenzene	ND	20	21.3	107	20	20.3	102	2	70-130	30
Bromochloromethane	ND	20	20.9	105	20	20.4	102	2	70-130	30
Bromodichloromethane	ND	20	19.5	98	20	18.7	93	2	70-130	30
Bromoform	ND	20	17.6	88	20	16.9	94	2	60-130	30
Bromomethane	ND	20	17.2	86	20	15.9	79	2	50-130	30
Carbon Tetrachloride	ND	20	19.4	97	20	18.9	94	2	70-130	30
Chlorobenzene	ND	20	20.1	100	20	19.9	98	2	70-130	30
Chloroethane	ND	20	21.1	105	20	20.5	102	2	70-130	30
Chloroform	ND	20	21.1	105	20	20.9	105	2	70-130	30
Chloromethane	ND	20	20.8	104	20	20.5	102	2	60-130	30
cis-1,2-Dichloroethene	ND	20	18.8	94	20	20.2	101	2	70-130	30
cis-1,3-Dichloropropene	ND	20	18.7	94	20	18.6	93	2	70-130	30
Dibromochloromethane	ND	20	19.8	99	20	19.8	98	2	70-130	30
Dibromomethane	ND	20	20.6	103	20	19.9	99	2	70-130	30
Dichlorodifluoromethane	ND	20	18.8	94	20	18.3	92	2	50-130	30
Ethylbenzene	ND	20	20	100	20	19.6	98	2	70-130	30
Hexachlorobutadiene	ND	20	17.9	90	20	17.1	85	2	60-130	30
Isopropyl Benzene	ND	20	22.6	113	20	21.7	109	2	70-130	30
Xylenes	ND	60	59.8	100	60	58.9	98	2	70-130	30
Methylene Chloride	ND	20	20.3	102	20	20.2	101	2	70-130	30
n-Butylbenzene	ND	20	16.6	83	20	16.1	81	2	60-130	30
n-Propylbenzene	ND	20	20.2	101	20	19.3	96	2	70-130	30
Naphthalene	ND	20	14.9	74	20	13.8	69	2	50-130	30
p-Isopropyltoluene	ND	20	19.7	99	20	19.3	96	2	70-130	30
Sec-Butylbenzene	ND	20	18.4	92	20	17.8	89	2	70-130	30
Styrene	ND	20	18.8	94	20	18.5	92	2	70-130	30
Tert-Butylbenzene	ND	20	20.1	100	20	19.4	97	2	70-130	30
Tetrachloroethylene	ND	20	19.7	99	20	19.3	96	2	70-130	30
Toluene	ND	20	20.4	102	20	19.5	97	2	70-130	30
Trans-1,2-Dichloroethene	ND	20	20.6	103	20	20.1	100	2	70-130	30
Trans-1,3-Dichloropropene	ND	20	20.3	101	20	19.7	98	2	70-130	30
Trichloroethene	ND	20	19.4	97	20	19.1	96	2	70-130	30
Trichlorofluoromethane	ND	20	21.5	108	20	20.8	104	2	70-130	30
Vinyl Chloride	ND	20	19.3	97	20	18.3	92	2	60-130	30
Acetone	ND	80	75.1	94	80	74.3	93	2	50-130	30
2-Butanone	ND	80	74.2	93	80	74.1	93	2	60-130	30
MTBE	ND	20	22.1	111	20	21.5	108	2	70-130	30
4-Methyl-2-Pentanone	ND	80	77	96	80	73.7	92	2	60-130	30
DIPE	ND	20	21.4	107	20	21	105	2	70-130	30
ETBE	ND	20	21.9	109	20	21.4	107	2	60-130	30
TAME	ND	20	21.5	107	20	21	106	2	60-130	30
tert-Butanol	ND	100	102	102	100	100	100	2	60-130	30
2-Hexanone	ND	80	75.5	94	80	69.1	86	2	70-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50	53.9	108	50	50.8	102	70-130
4-Bromofluorobenzene	50	53.7	107	50	49.9	100	70-130
Toluene-d8	50	49.7	99	50	46.9	94	70-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADE INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: SW 5030B/8260B

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: M-121
LAB SAMP ID: C222-01 C222-01M C222-01S
LAB FILE ID: RCC685 RCC689 RCC690
DATE EXTRACTED: 03/30/0612:53 03/30/0615:16 03/30/0615:52 DATE COLLECTED: 03/23/06
DATE ANALYZED: 03/30/0612:53 03/30/0615:16 03/30/0615:52 DATE RECEIVED: 03/24/06
PREP. BATCH: V067C47 V067C47 V067C47
CALIB. REF: RCC488 RCC488 RCC488

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1,2-Tetrachloroethane	ND	50	56.6	113	50	57	114	1	70-130	30
1,1,1-Trichloroethane	ND	50	54.1	108	50	55.4	111	2	70-130	30
1,1,2,2-Tetrachloroethane	ND	50	51.9	104	50	55.4	111	2	70-140	30
1,1,2-Trichloroethane	ND	50	55.9	113	50	56.5	113	2	70-140	30
1,1-Dichloroethane	ND	50	56.5	115	50	56.8	114	1	70-130	30
1,1-Dichloroethene	ND	50	53.3	111	50	56	113	1	60-140	30
1,1-Dichloropropene	ND	50	53.1	106	50	56	112	1	60-140	30
1,2,3-Trichlorobenzene	ND	50	40.6	81	50	40.8	82	1	50-140	30
1,2,3-Trichloropropane	ND	50	51.8	104	50	56	112	1	70-140	30
1,2,4-Trichlorobenzene	ND	50	41	82	50	40.6	81	1	60-140	30
1,2,4-Trimethylbenzene	ND	50	54.5	109	50	55.6	111	2	60-150	30
1,2-Dibromo-3-chloropropane	ND	50	48.8	98	50	48.4	105	1	60-130	30
1,2-Dichlorobenzene	ND	50	53	106	50	53.2	106	0	70-130	30
1,2-Dichloroethane	ND	50	56	112	50	56.9	114	0	70-140	30
1,2-Dichloropropane	ND	50	56.6	113	50	57.2	114	0	70-130	30
1,2-Dibromoethane	ND	50	56.6	113	50	57.2	115	0	70-140	30
1,3,5-Trimethylbenzene	ND	50	54.8	110	50	55.4	111	1	70-140	30
1,3-Dichlorobenzene	ND	50	55.7	105	50	56.9	106	1	70-130	30
1,3-Dichloropropane	ND	50	52.7	111	50	57	114	2	70-130	30
1,4-Dichlorobenzene	ND	50	52.5	105	50	52.5	105	2	70-130	30
1-Chlorohexane	ND	50	55.7	111	50	56.5	113	1	50-150	30
2,2-Dichloropropane	ND	50	48.6	97	50	48	96	1	40-140	30
2-Chlorotoluene	ND	50	54.1	108	50	55.2	110	2	70-130	30
4-Chlorotoluene	ND	50	54.8	110	50	55.7	111	2	60-130	30
Benzene	ND	50	54.3	109	50	55.6	111	2	60-140	30
Bromobenzene	ND	50	54.3	107	50	55.7	109	2	70-130	30
Bromochloromethane	ND	50	57.7	114	50	58.3	117	2	60-140	30
Bromodichloromethane	ND	50	56.0	114	50	56.7	115	2	70-130	30
Bromoform	ND	50	53.1	106	50	53.7	113	1	60-140	30
Bromomethane	ND	50	52.6	85	50	53.4	94	0	40-140	30
Carbon Tetrachloride	ND	50	54.7	109	50	55.3	113	3	60-140	30
Chlorobenzene	ND	50	55.8	112	50	56.2	112	3	70-130	30
Chloroethane	ND	50	58.3	117	50	58.8	112	4	60-160	30
Chloroform	ND	50	57.6	115	50	57.2	114	4	70-130	30
Chloromethane	ND	50	59	118	50	59.1	118	0	60-140	30
cis-1,2-Dichloroethene	ND	50	57.5	115	50	57.7	115	0	70-140	30
cis-1,3-Dichloropropane	ND	50	54.6	109	50	55.3	111	1	70-130	30
Dibromochloromethane	ND	50	56.6	113	50	56.8	117	1	70-140	30
Dibromomethane	ND	50	57.9	111	50	58.6	115	4	70-140	30
Dichlorodifluoromethane	ND	50	58.9	116	50	59.2	115	4	70-140	30
Ethylbenzene	ND	50	56.9	114	50	56	113	4	10-160	30
Hexachlorobutadiene	ND	50	51.2	102	50	51	102	0	60-140	30
Isopropyl Benzene	ND	50	54.6	109	50	56.1	112	3	60-160	30
Xylenes	ND	150	172	114	150	172	115	0	70-140	30
Methylene Chloride	ND	50	56.7	113	50	56	112	0	60-140	30
n-Butylbenzene	ND	50	45.8	92	50	45.9	92	0	40-150	30
n-Propylbenzene	ND	50	55.7	111	50	56.2	112	1	60-140	30
Naphthalene	ND	50	55.7	71	50	58.8	76	7	30-160	30
p-Isopropyltoluene	ND	50	55	110	50	56.2	112	2	60-140	30
Sec-Butylbenzene	ND	50	55.4	111	50	56	112	2	60-140	30
Styrene	ND	50	53.9	108	50	53.2	106	2	40-150	30
Tert-Butylbenzene	ND	50	56.3	113	50	57	114	1	70-130	30
Tetrachloroethylene	ND	50	52.3	105	50	53	106	1	70-130	30
Toluene	ND	50	55.4	111	50	55.6	111	0	70-140	30
Trans-1,2-Dichloroethene	ND	50	57	114	50	56.3	113	4	70-130	30
Trans-1,3-Dichloropropene	ND	50	53.9	108	50	55.9	112	1	60-140	30
Trichloroethene	ND	50	52.9	106	50	54.4	109	3	60-140	30
Trichlorofluoromethane	ND	50	58.7	117	50	56.5	113	4	70-150	30
Vinyl Chloride	ND	50	55.3	111	50	55.2	110	0	60-160	30
Acetone	ND	200	197	99	200	202	101	4	50-150	30
2-Butanone	ND	200	204	102	200	213	106	0	60-150	30
MTBE	ND	50	56.1	113	50	56.2	113	1	60-140	30
4-Methyl-2-Pentanone	ND	200	203	103	200	220	110	0	60-140	30
DIPE	ND	50	57	114	50	57	113	2	50-150	30
ETBE	ND	50	57.8	116	50	58.5	117	2	40-160	30
TAME	ND	50	55.2	110	50	57	114	3	50-150	30
tert-Butanol	ND	250	246	98	250	274	110	1	20-160	30
2-Hexanone	ND	200	187	94	200	215	107	14	60-140	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50	56.8	114	50	55.7	111	70-140
4-Bromofluorobenzene	50	54	108	50	54.5	109	70-130
Toluene-d8	50	52.9	106	50	53.3	107	70-140

QC DATA

Quantitation Report

(QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C29\RCC677.D ✓
 Acq On : 30 Mar 2006 8:00 am
 Sample : VO67C47Q 5.0mL
 Misc : DF=1.0 MB ✓
 MS Integration Params: LSCINT.P
 Quant Time: Mar 30 11:08 2006

Vial: 8
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	522652	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.72	117	2174431	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.51	152	873843	50.00	ug/l	0.00
System Monitoring Compounds						
35) 1,2-Dichloroethane-d4	9.69	65	533391	48.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.46%	
49) Toluene-d8	12.68	98	2503147	52.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.36%	
70) 4-Bromofluorobenzene	18.48	95	736772	60.38	ug/l	0.01
Spiked Amount	50.000		Recovery	=	120.76%	

Target Compounds

Qvalue

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

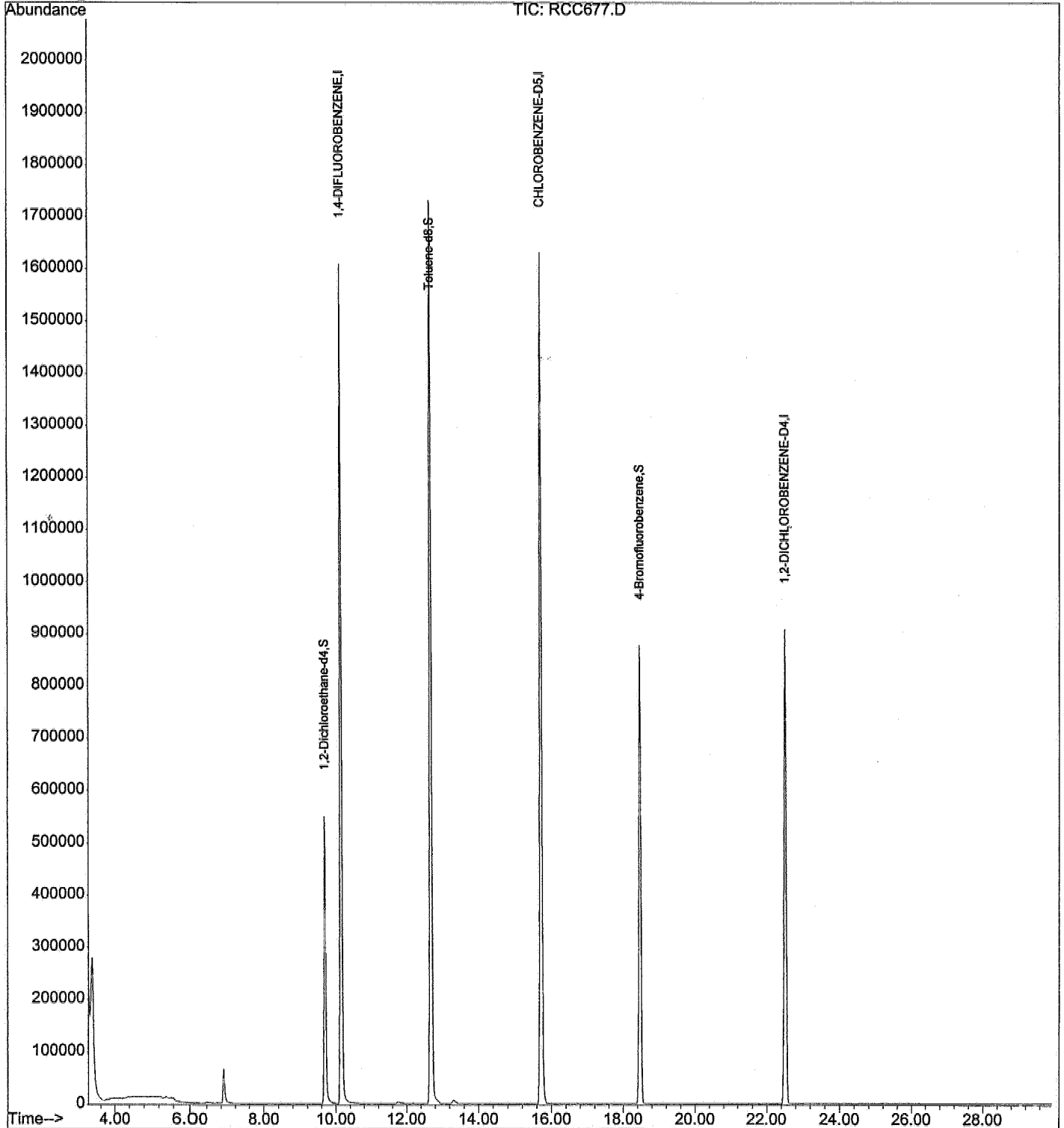
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC677.D
Acq On : 30 Mar 2006 8:00 am
Sample : VO67C47Q 5.0mL
Misc : DF=1.0 MB
MS Integration Params: LSCINT.P
Quant Time: Mar 30 11:08 2006

Vial: 8
Operator: CGM
Inst : TO67
Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



Data File : D:\HPCHEM\1\data\06C29\RCC674.D

Vial: 5

Acq On : 30 Mar 2006 6:13 am

Operator: CGM

Sample : VO67C47L 5.0mL

Inst : TO67

Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 6:43 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2699040	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	2472947	50.00	ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.52	152	821799	50.00	ug/l	0.01

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.69	65	630804	53.86	ug/l	0.01
Spiked Amount	50.000		Recovery	=	107.72%	
49) Toluene-d8	12.68	98	2712564	49.72	ug/l	0.01
Spiked Amount	50.000		Recovery	=	99.44%	
70) 4-Bromofluorobenzene	18.48	95	939225	53.75	ug/l	0.01
Spiked Amount	50.000		Recovery	=	107.50%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.54	85	251286	18.85	ug/l	100
3) Chloromethane	4.03	50	233155	20.82	ug/l	98
4) Vinyl chloride	4.18	62	186381	19.31	ug/l	100
5) Bromomethane	4.91	94	180421	17.23	ug/l	97
6) Chloroethane	5.01	64	131298	21.09	ug/l	99
7) Trichlorofluoromethane	5.39	101	290313	21.51	ug/l	100
9) Acrolein	5.95	56	89317	54.87	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	5.97	151	198559	19.72	ug/l	99
11) Acetone	6.03	43	228903	75.13	ug/l	100
12) 1,1-Dichloroethene	6.24	61	394494	19.50	ug/l	97
13) tert-Butyl alcohol	6.28	59	105194	102.17	ug/l	99
16) Iodomethane	6.71	142	327988	23.51	ug/l	98
17) Methylene chloride	6.88	49	485105	20.30	ug/l	97
18) Carbon disulfide	7.01	76	1120415	21.94	ug/l	100
19) Acrylonitrile	7.00	53	308437	75.90	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	590627	22.12	ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	426656	20.63	ug/l	98
22) Isopropyl ether (DIPE)	7.55	45	1005075	21.44	ug/l	100
23) 1,1-Dichloroethane	7.78	63	543921	20.60	ug/l	99
24) Vinyl acetate	7.70	43	442850	17.51	ug/l	100
25) tert-Butyl ethyl ether (ET	8.07	59	753995	21.90	ug/l	99
26) 2-Butanone	8.25	43	453019	74.18	ug/l	100
27) 2,2-Dichloropropane	8.50	77	306534	18.75	ug/l	99
28) cis-1,2-Dichloroethene	8.56	61	445304	18.82	ug/l	89
30) Chloroform	8.77	83	541766	21.09	ug/l	99
31) Bromochloromethane	9.01	49	299419	20.93	ug/l	95
32) 1,1,1-Trichloroethane	9.30	97	361504	19.67	ug/l	98
34) tert-Amyl methyl ether (TA	9.56	73	777738	21.46	ug/l	99
37) 1,1-Dichloropropene	9.50	77	135307	19.18	ug/l	100

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

RCC674.D VO67C23.M Thu Mar 30 06:43:11 2006

Page 1

2026

Data File : D:\HPCHEM\1\data\06C29\RCC674.D
 Acq On : 30 Mar 2006 6:13 am
 Sample : VO67C47L 5.0mL
 Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 30 6:43 2006

Vial: 5
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.68	119	320409	19.39	ug/l	99
39) 1,2-Dichloroethane	9.81	62	307832	19.93	ug/l	99
40) Benzene	9.88	78	1337017	19.76	ug/l	99
41) Trichloroethene	10.73	130	362655	19.45	ug/l	98
43) 1,2-Dichloropropane	10.97	63	360418	19.72	ug/l	99
44) Bromodichloromethane	11.37	83	388724	19.53	ug/l	99
45) Dibromomethane	11.51	93	227433	20.58	ug/l	97
46) 2-Chloroethyl vinyl ether	11.69	63	34055	12.40	ug/l	96
47) 4-Methyl-2-pentanone	11.73	43	1085674	76.98	ug/l	98
48) cis-1,3-Dichloropropene	12.21	75	436889	18.73	ug/l	99
50) Toluene	12.83	91	1331868	20.45	ug/l	100
51) Ethyl methacrylate	12.89	69	305447	19.02	ug/l	99
52) trans-1,3-Dichloropropene	13.06	75	340764	20.28	ug/l	97
53) 1,1,2-Trichloroethane	13.40	97	269615	19.72	ug/l	99
54) 2-Hexanone	13.27	43	704612	75.47	ug/l	99
55) 1,3-Dichloropropane	13.88	76	452931	19.56	ug/l	99
56) Tetrachloroethene	14.10	164	254532	19.75	ug/l	100
57) Dibromochloromethane	14.53	129	302703	19.79	ug/l	99
58) 1,2-Dibromoethane	14.95	107	299658	19.83	ug/l	99
59) 1-Chlorohexane	15.07	91	483870	19.34	ug/l	99
60) Chlorobenzene	15.81	112	902587	20.09	ug/l	100
61) 1,1,1,2-Tetrachloroethane	15.86	131	283258	20.18	ug/l	99
62) Ethylbenzene	15.84	91	1408855	20.04	ug/l	99
63) m-Xylene & p-Xylene	16.01	91	2090306	39.64	ug/l	99
64) o-Xylene	17.02	91	1094928	20.20	ug/l	100
65) Styrene	17.09	104	822062	18.78	ug/l	99
67) Bromoform	18.00	173	163838	19.64	ug/l	99
68) Isopropylbenzene	17.82	105	1325547	22.65	ug/l	99
69) 1,1,2,2-Tetrachloroethane	18.23	83	389188	19.86	ug/l	100
71) 1,2,3-Trichloropropane	18.60	61	68707	21.05	ug/l	95
72) trans-1,4-Dichloro-2-buten	18.70	53	35790	21.44	ug/l	95
73) n-Propylbenzene	18.79	91	1568673	20.21	ug/l	99
74) Bromobenzene	19.03	156	324316	21.33	ug/l	98
75) 2-Chlorotoluene	19.31	91	956349	19.66	ug/l	95
76) 1,3,5-Trimethylbenzene	19.18	105	973009	20.47	ug/l	100
77) 4-Chlorotoluene	19.42	91	888102	21.25	ug/l	95
78) tert-Butylbenzene	20.09	119	841719	20.09	ug/l	100
79) 1,2,4-Trimethylbenzene	20.19	105	913503	19.97	ug/l	100
80) sec-Butylbenzene	20.62	105	1215438	18.39	ug/l	99
81) p-Isopropyltoluene	20.97	119	855808	19.74	ug/l	100
82) 1,3-Dichlorobenzene	21.32	146	554894	19.78	ug/l	100

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

Data File : D:\HPCHEM\1\data\06C29\RCC674.D Vial: 5
 Acq On : 30 Mar 2006 6:13 am Operator: CGM
 Sample : VO67C47L 5.0mL Inst : TO67
 Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 30 6:43 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.58	146	535406	19.41	ug/l	99
84) n-Butylbenzene	22.04	91	655286	16.57	ug/l	100
85) 1,2-Dichlorobenzene	22.59	146	504087	19.92	ug/l	99
86) 1,2-Dibromo-3-chloropropan	24.68	157	38488	17.10	ug/l	98
87) 1,2,4-Trichlorobenzene	27.09	180	149466	16.26	ug/l	100
88) Hexachlorobutadiene	27.45	225	81522	17.93	ug/l	98
89) Naphthalene	27.85	128	267314	14.87	ug/l	100
90) 1,2,3-Trichlorobenzene	28.52	180	117366	15.83	ug/l	99

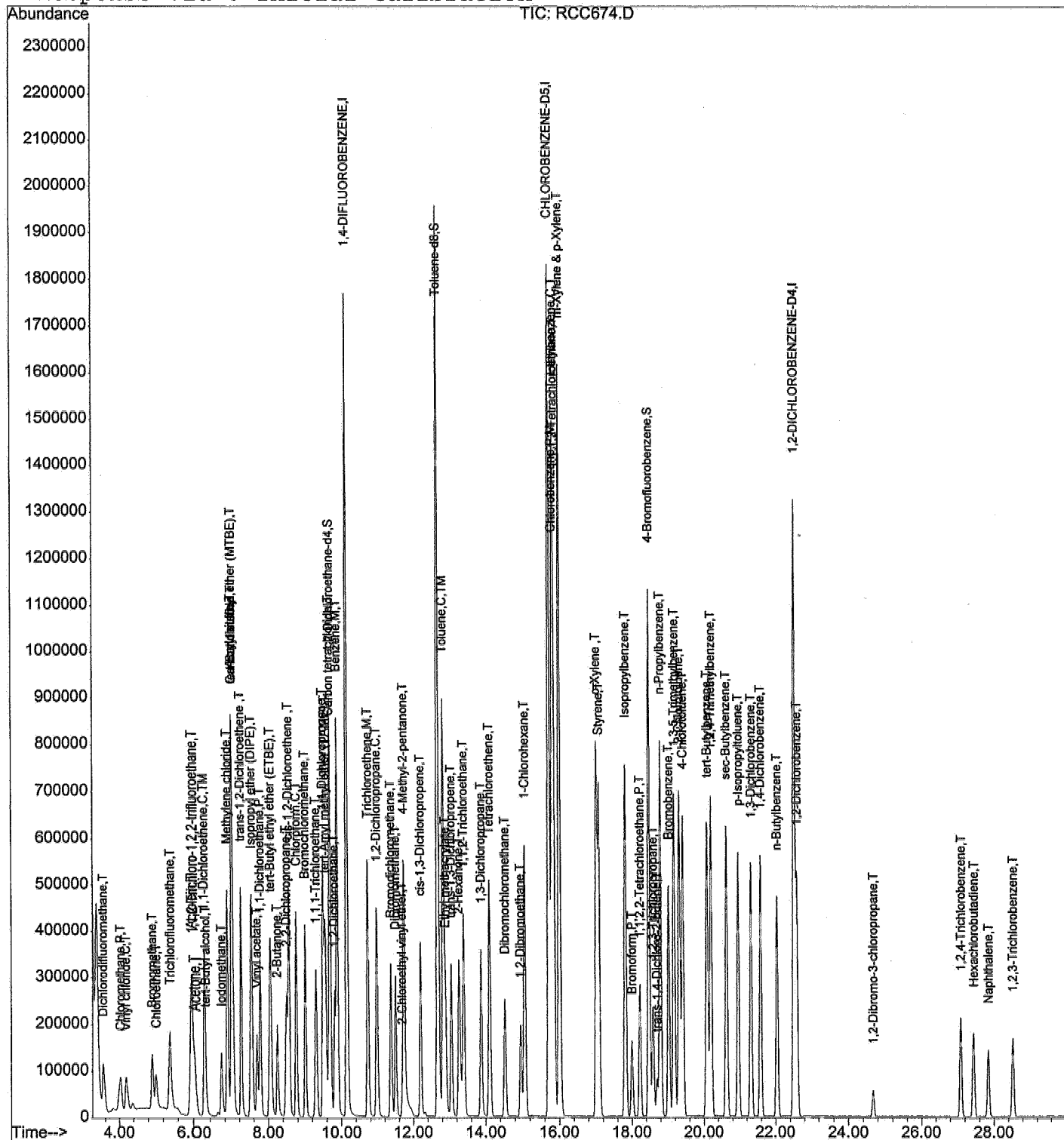
Quantitation Report

Data File : D:\HPCHEM\1\data\06C29\RCC674.D
 Acq On : 30 Mar 2006 6:13 am
 Sample : VO67C47L 5.0mL
 Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 30 6:43 2006

Vial: 5
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\data\06C29\RCC675.D

Vial: 6

Acq On : 30 Mar 2006 6:48 am

Operator: CGM

Sample : VO67C47C 5.0mL

Inst : TO67

Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 7:18 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2786681	50.00	ug/l	0.01
36) CHLOROENZENE-D5	15.72	117	2583573	50.00	ug/l	0.01
66) 1,2-DICHLOROENZENE-D4	22.51	152	2883377	50.00	ug/l	0.01

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.69	65	614097	50.79	ug/l	0.01
Spiked Amount	50.000		Recovery	=	101.58%	
49) Toluene-d8	12.68	98	2674012	46.91	ug/l	0.01
Spiked Amount	50.000		Recovery	=	93.82%	
70) 4-Bromofluorobenzene	18.48	95	937955	49.93	ug/l	0.01
Spiked Amount	50.000		Recovery	=	99.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.54	85	252136	18.32	ug/l	99
3) Chloromethane	4.03	50	236499	20.45	ug/l	99
4) Vinyl chloride	4.18	62	184011	18.35	ug/l	99
5) Bromomethane	4.91	94	172740	15.70	ug/l	97
6) Chloroethane	5.01	64	131537	20.46	ug/l	99
7) Trichlorofluoromethane	5.39	101	289260	20.76	ug/l	99
9) Acrolein	5.95	56	90324	53.74	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	199246	19.17	ug/l	98
11) Acetone	6.03	43	233614	74.27	ug/l	99
12) 1,1-Dichloroethene	6.23	61	394037	18.86	ug/l	98
13) tert-Butyl alcohol	6.28	59	106678	100.35	ug/l	98
16) Iodomethane	6.71	142	336559	23.40	ug/l	98
17) Methylene chloride	6.88	49	498551	20.19	ug/l	98
18) Carbon disulfide	6.99	76	1121383	21.27	ug/l	100
19) Acrylonitrile	6.99	53	317278	75.62	ug/l	98
20) tert-Butyl methyl ether (M	7.01	73	593500	21.53	ug/l	100
21) trans-1,2-Dichloroethene	7.25	61	428164	20.06	ug/l	97
22) Isopropyl ether (DIPE)	7.55	45	1017498	21.03	ug/l	99
23) 1,1-Dichloroethane	7.78	63	549203	20.15	ug/l	99
24) Vinyl acetate	7.69	43	433961	16.62	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	761809	21.43	ug/l	98
26) 2-Butanone	8.25	43	467101	74.09	ug/l	100
27) 2,2-Dichloropropane	8.50	77	309179	18.32	ug/l	99
28) cis-1,2-Dichloroethene	8.56	61	494256	20.24	ug/l	97
30) Chloroform	8.77	83	555580	20.95	ug/l	99
31) Bromochloromethane	9.01	49	301570	20.42	ug/l	95
32) 1,1,1-Trichloroethane	9.30	97	366091	19.30	ug/l	99
34) tert-Amyl methyl ether (TA	9.56	73	791933	21.17	ug/l	99
37) 1,1-Dichloropropene	9.50	77	137229	18.62	ug/l	100

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

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\data\06C29\RCC675.D Vial: 6
 Acq On : 30 Mar 2006 6:48 am Operator: CGM
 Sample : VO67C47C 5.0mL Inst : TO67
 Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 30 7:18 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.68	119	326722	18.92	ug/l	99
39) 1,2-Dichloroethane	9.81	62	314260	19.47	ug/l	100
40) Benzene	9.88	78	1375776	19.46	ug/l	99
41) Trichloroethene	10.73	130	372967	19.14	ug/l	98
43) 1,2-Dichloropropane	10.97	63	375929	19.68	ug/l	99
44) Bromodichloromethane	11.37	83	388375	18.68	ug/l	100
45) Dibromomethane	11.51	93	229638	19.89	ug/l	97
46) 2-Chloroethyl vinyl ether	11.69	63	35390	12.33	ug/l	96
47) 4-Methyl-2-pentanone	11.73	43	1086021	73.71	ug/l	99
48) cis-1,3-Dichloropropene	12.21	75	453799	18.62	ug/l	99
50) Toluene	12.83	91	1324940	19.47	ug/l	100
51) Ethyl methacrylate	12.89	69	307625	18.34	ug/l	99
52) trans-1,3-Dichloropropene	13.06	75	345002	19.65	ug/l	98
53) 1,1,2-Trichloroethane	13.40	97	277467	19.43	ug/l	99
54) 2-Hexanone	13.27	43	674711	69.08	ug/l	99
55) 1,3-Dichloropropane	13.88	76	465641	19.25	ug/l	99
56) Tetrachloroethene	14.10	164	258152	19.17	ug/l	99
57) Dibromochloromethane	14.53	129	312185	19.54	ug/l	99
58) 1,2-Dibromoethane	14.95	107	306264	19.40	ug/l	99
59) 1-Chlorohexane	15.07	91	494009	18.90	ug/l	99
60) Chlorobenzene	15.81	112	917826	19.55	ug/l	98
61) 1,1,1,2-Tetrachloroethane	15.86	131	289402	19.74	ug/l	99
62) Ethylbenzene	15.84	91	1438003	19.58	ug/l	100
63) m-Xylene & p-Xylene	16.01	91	2156127	39.14	ug/l	99
64) o-Xylene	17.02	91	1117496	19.73	ug/l	100
65) Styrene	17.09	104	844458	18.47	ug/l	99
67) Bromoform	18.00	173	169336	18.88	ug/l	99
68) Isopropylbenzene	17.82	105	1365533	21.71	ug/l	100
69) 1,1,2,2-Tetrachloroethane	18.23	83	394260	18.71	ug/l	99
71) 1,2,3-Trichloropropane	18.60	61	69842	19.90	ug/l	96
72) trans-1,4-Dichloro-2-buten	18.70	53	36850	20.54	ug/l	97
73) n-Propylbenzene	18.79	91	1608490	19.28	ug/l	100
74) Bromobenzene	19.03	156	331858	20.30	ug/l	99
75) 2-Chlorotoluene	19.31	91	1041986	19.92	ug/l	100
76) 1,3,5-Trimethylbenzene	19.18	105	1011445	19.79	ug/l	100
77) 4-Chlorotoluene	19.42	91	862937	19.21	ug/l	100
78) tert-Butylbenzene	20.09	119	873839	19.41	ug/l	100
79) 1,2,4-Trimethylbenzene	20.19	105	943469	19.19	ug/l	99
80) sec-Butylbenzene	20.62	105	1263271	17.79	ug/l	100
81) p-Isopropyltoluene	20.97	119	899238	19.30	ug/l	100
82) 1,3-Dichlorobenzene	21.32	146	577806	19.16	ug/l	100

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

Data File : D:\HPCHEM\1\data\06C29\RCC675.D
Acq On : 30 Mar 2006 6:48 am
Sample : VO67C47C 5.0mL
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA
MS Integration Params: LSCINT.P
Quant Time: Mar 30 7:18 2006

Vial: 6
Operator: CGM
Inst : TO67
Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.59	146	557686	18.80	ug/l	99
84) n-Butylbenzene	22.04	91	681581	16.15	ug/l	100
85) 1,2-Dichlorobenzene	22.59	146	526135	19.34	ug/l	99
86) 1,2-Dibromo-3-chloropropan	24.67	157	39947	16.51	ug/l	97
87) 1,2,4-Trichlorobenzene	27.09	180	152676	15.63	ug/l	99
88) Hexachlorobutadiene	27.44	225	83028	17.06	ug/l	100
89) Naphthalene	27.85	128	258985	13.82	ug/l	100
90) 1,2,3-Trichlorobenzene	28.52	180	121144	15.34	ug/l	99

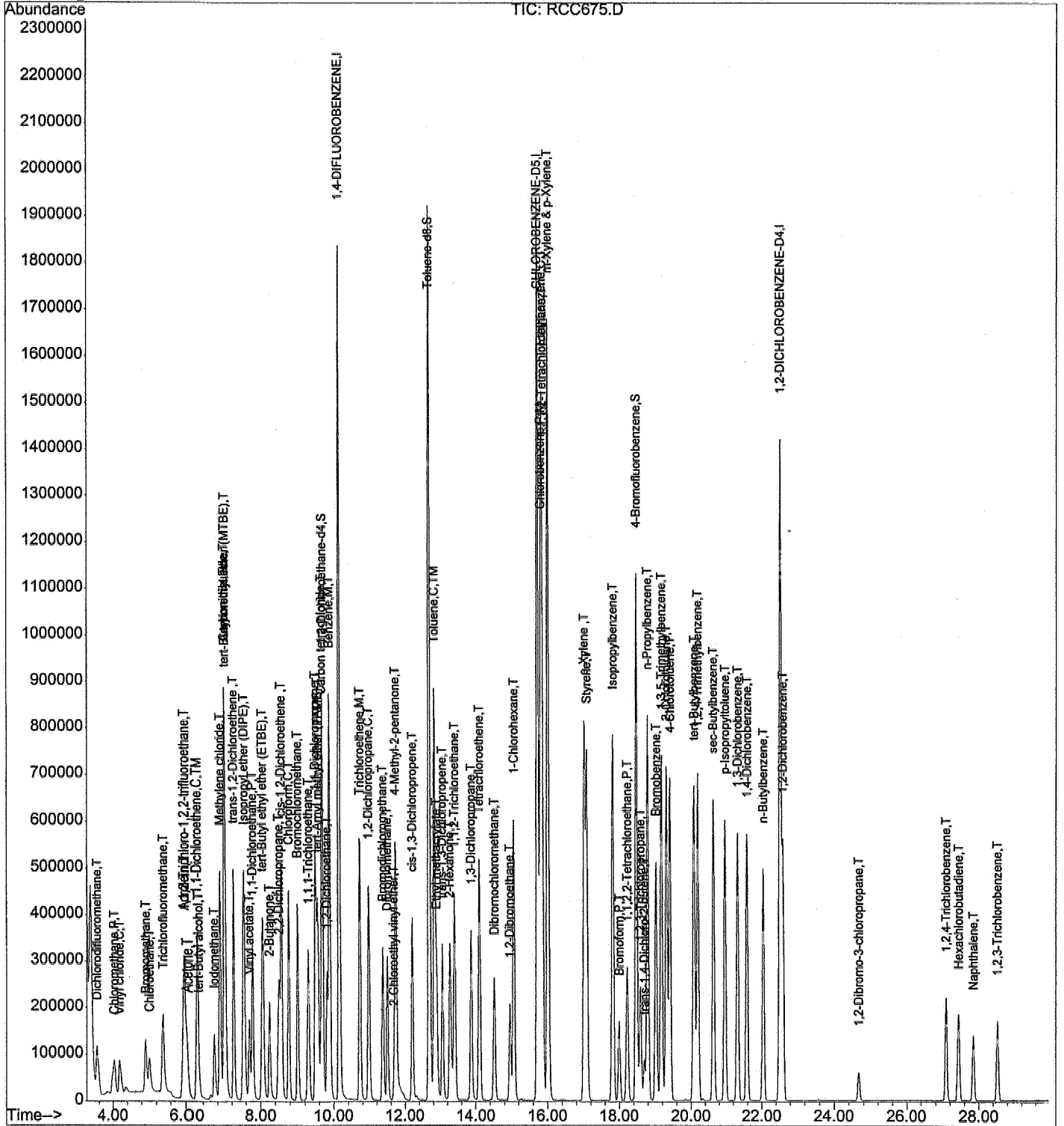
Quantitation Report

Data File : D:\HPCHEM\1\data\06C29\RCC675.D
Acq On : 30 Mar 2006 6:48 am
Sample : VO67C47C 5.0mL
Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA
MS Integration Params: LSCINT.P
Quant Time: Mar 30 7:18 2006

Vial: 6
Operator: CGM
Inst : TO67
Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Tue Mar 28 09:22:46 2006
Response via : Initial Calibration



Data File : D:\HPCHEM\1\data\06C29\RCC689.D

Vial: 20

Acq On : 30 Mar 2006 3:16 pm

Operator: CGM

Sample : 06C222-01M 5.0mL

Inst : TO67

Misc : DF=1.0 MS

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 15:46 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2257760	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.72	117	2066536	50.00	ug/l	0.01
66) 1,2-DICHLOROBENZENE-D4	22.51	152	755902	50.00	ug/l	0.01

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.69	65	556427	56.80	ug/l	0.01
Spiked Amount	50.000		Recovery	=	113.60%	
49) Toluene-d8	12.70	98	2410018	52.86	ug/l	0.03
Spiked Amount	50.000		Recovery	=	105.72%	
70) 4-Bromofluorobenzene	18.48	95	867504	53.97	ug/l	0.01
Spiked Amount	50.000		Recovery	=	107.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.55	85	648775	58.18	ug/l	99
3) Chloromethane	4.04	50	552773	59.00	ug/l	100
4) Vinyl chloride	4.18	62	363126	55.30	ug/l	99
5) Bromomethane	4.91	94	332991	42.60	ug/l	100
6) Chloroethane	5.01	64	303355	58.25	ug/l	100
7) Trichlorofluoromethane	5.38	101	662811	58.72	ug/l	100
9) Acrolein	5.95	56	256010	188.00	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	5.97	151	463307	55.01	ug/l	100
11) Acetone	6.02	43	503040	197.39	ug/l	99
12) 1,1-Dichloroethene	6.25	61	935932	55.30	ug/l	99
13) tert-Butyl alcohol	6.28	59	211496	245.56	ug/l	99
16) Iodomethane	6.71	142	516310	38.76	ug/l	99
17) Methylene chloride	6.87	49	1015187	56.67	ug/l	100
18) Carbon disulfide	7.01	76	2330446	54.55	ug/l	100
19) Acrylonitrile	6.99	53	749568	220.50	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	1252260	56.06	ug/l	100
21) trans-1,2-Dichloroethene	7.26	61	985630	56.98	ug/l	100
22) Isopropyl ether (DIPE)	7.54	45	2235542	57.02	ug/l	100
23) 1,1-Dichloroethane	7.78	63	1248187	56.51	ug/l	100
24) Vinyl acetate	7.69	43	1066761	50.43	ug/l	99
25) tert-Butyl ethyl ether (ET	8.07	59	1664940	57.81	ug/l	99
26) 2-Butanone	8.24	43	1039836	203.56	ug/l	100
27) 2,2-Dichloropropane	8.50	77	664332	48.58	ug/l	99
28) cis-1,2-Dichloroethene	8.57	61	1138219	57.52	ug/l	99
30) Chloroform	8.77	83	1237252	57.58	ug/l	100
31) Bromochloromethane	9.02	49	683932	57.16	ug/l	98
32) 1,1,1-Trichloroethane	9.30	97	832221	54.15	ug/l	99
34) tert-Amyl methyl ether (TA	9.55	73	1673148	55.20	ug/l	100
37) 1,1-Dichloropropene	9.50	77	313037	53.10	ug/l	99

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

Data File : D:\HPCHEM\1\data\06C29\RCC689.D

Vial: 20

Acq On : 30 Mar 2006 3:16 pm

Operator: CGM

Sample : 06C222-01M 5.0mL

Inst : TO67

Misc : DF=1.0 MS

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 15:46 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.67	119	755317	54.70	ug/l	100
39) 1,2-Dichloroethane	9.82	62	723166	56.02	ug/l	100
40) Benzene	9.90	78	3067668	54.25	ug/l	100
41) Trichloroethene	10.73	130	825128	52.95	ug/l	100
43) 1,2-Dichloropropane	10.98	63	864706	56.60	ug/l	99
44) Bromodichloromethane	11.37	83	946266	56.89	ug/l	100
45) Dibromomethane	11.51	93	514049	55.67	ug/l	99
47) 4-Methyl-2-pentanone	11.73	43	2393380	203.07	ug/l	98
48) cis-1,3-Dichloropropene	12.21	75	1063279	54.55	ug/l	100
50) Toluene	12.83	91	3015190	55.40	ug/l	100
51) Ethyl methacrylate	12.89	69	765048	57.01	ug/l	98
52) trans-1,3-Dichloropropene	13.06	75	757273	53.92	ug/l	100
53) 1,1,2-Trichloroethane	13.40	97	639073	55.95	ug/l	99
54) 2-Hexanone	13.26	43	1449250	187.36	ug/l	99
55) 1,3-Dichloropropane	13.87	76	1077660	55.70	ug/l	100
56) Tetrachloroethene	14.11	164	563203	52.29	ug/l	99
57) Dibromochloromethane	14.53	129	723729	56.63	ug/l	100
58) 1,2-Dibromoethane	14.96	107	710883	56.30	ug/l	100
59) 1-Chlorohexane	15.07	91	1165533	55.74	ug/l	100
60) Chlorobenzene	15.81	112	2094037	55.77	ug/l	99
61) 1,1,1,2-Tetrachloroethane	15.86	131	664411	56.65	ug/l	99
62) Ethylbenzene	15.86	91	3343975	56.93	ug/l	100
63) m-Xylene & p-Xylene	16.00	91	5024103	114.02	ug/l	99
64) o-Xylene	17.03	91	2613996	57.71	ug/l	100
65) Styrene	17.09	104	1970804	53.88	ug/l	99
67) Bromoform	18.00	173	407822	53.14	ug/l	99
68) Isopropylbenzene	17.82	105	2938815	54.59	ug/l	100
69) 1,1,2,2-Tetrachloroethane	18.22	83	936355	51.94	ug/l	100
71) 1,2,3-Trichloropropane	18.60	61	155673	51.84	ug/l	99
72) trans-1,4-Dichloro-2-buten	18.70	53	64235	41.84	ug/l	98
73) n-Propylbenzene	18.79	91	3976780	55.71	ug/l	100
74) Bromobenzene	19.03	156	747663	53.45	ug/l	99
75) 2-Chlorotoluene	19.31	91	2419111	54.06	ug/l	100
76) 1,3,5-Trimethylbenzene	19.18	105	2394764	54.76	ug/l	100
77) 4-Chlorotoluene	19.42	91	2107634	54.82	ug/l	99
78) tert-Butylbenzene	20.09	119	2166356	56.23	ug/l	98
79) 1,2,4-Trimethylbenzene	20.19	105	2290809	54.46	ug/l	99
80) sec-Butylbenzene	20.64	105	3369725	55.44	ug/l	100
81) p-Isopropyltoluene	20.96	119	2191814	54.97	ug/l	100
82) 1,3-Dichlorobenzene	21.32	146	1358153	52.63	ug/l	100
83) 1,4-Dichlorobenzene	21.59	146	1331683	52.48	ug/l	100

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

Data File : D:\HPCHEM\1\data\06C29\RCC689.D

Vial: 20

Acq On : 30 Mar 2006 3:16 pm

Operator: CGM

Sample : 06C222-01M 5.0mL

Inst : TO67

Misc : DF=1.0 MS

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 15:46 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
84) n-Butylbenzene	22.04	91	1937489	45.78	ug/l	100
85) 1,2-Dichlorobenzene	22.59	146	1233896	53.01	ug/l	100
86) 1,2-Dibromo-3-chloropropan	24.67	157	101089	48.83	ug/l	98
87) 1,2,4-Trichlorobenzene	27.10	180	404874	41.03	ug/l	100
88) Hexachlorobutadiene	27.44	225	233096	51.18	ug/l	100
89) Naphthalene	27.85	128	724908	35.70	ug/l	100
90) 1,2,3-Trichlorobenzene	28.53	180	327313	40.57	ug/l	99

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

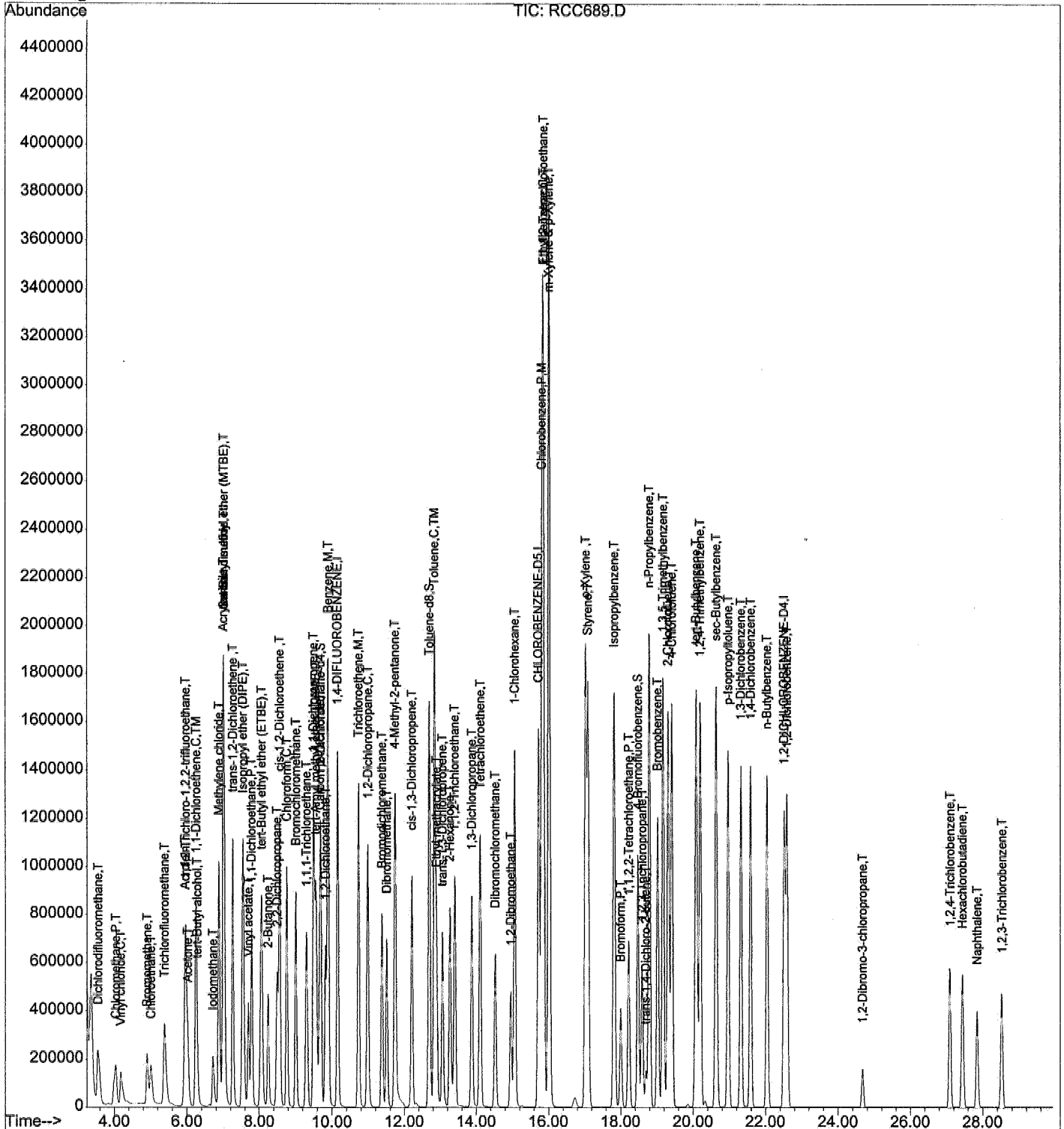
Quantitation Report

Data File : D:\HPCHEM\1\data\06C29\RCC689.D
 Acq On : 30 Mar 2006 3:16 pm
 Sample : 06C222-01M 5.0mL
 Misc : DF=1.0 MS
 MS Integration Params: LSCINT.P
 Quant Time: Mar 30 15:46 2006

Vial: 20
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\data\06C29\RCC690.D

Vial: 21

Acq On : 30 Mar 2006 3:52 pm

Operator: CGM

Sample : 06C222-01S 5.0mL

Inst : TO67

Misc : DF=1.0 MSD

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 16:22 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.16	114	2386046	50.00	ug/l	0.02
36) CHLOROBENZENE-D5	15.72	117	2157820	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.51	152	72377	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.70	65	577031	55.73	ug/l	0.02
Spiked Amount	50.000		Recovery	=	111.46%	
49) Toluene-d8	12.70	98	2535440	53.26	ug/l	0.02
Spiked Amount	50.000		Recovery	=	106.52%	
70) 4-Bromofluorobenzene	18.47	95	895677	54.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.06%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.54	85	661934	56.16	ug/l	100
3) Chloromethane	4.04	50	584680	59.05	ug/l	99
4) Vinyl chloride	4.18	62	383361	55.22	ug/l	100
5) Bromomethane	4.91	94	386768	47.19	ug/l	99
6) Chloroethane	5.01	64	307048	55.79	ug/l	100
7) Trichlorofluoromethane	5.40	101	674288	56.52	ug/l	100
9) Acrolein	5.95	56	277625	192.91	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	5.96	151	498116	55.96	ug/l	100
11) Acetone	6.02	43	543354	201.74	ug/l	99
12) 1,1-Dichloroethene	6.25	61	1006524	56.28	ug/l	99
13) tert-Butyl alcohol	6.28	59	249260	273.85	ug/l	99
16) Iodomethane	6.71	142	590586	41.44	ug/l	99
17) Methylene chloride	6.87	49	1061158	56.01	ug/l	100
18) Carbon disulfide	7.01	76	2442026	54.09	ug/l	100
19) Acrylonitrile	6.99	53	813367	226.40	ug/l	98
20) tert-Butyl methyl ether (M	7.01	73	1334275	56.52	ug/l	100
21) trans-1,2-Dichloroethene	7.26	61	1029742	56.33	ug/l	99
22) Isopropyl ether (DIPE)	7.54	45	2381557	57.48	ug/l	100
23) 1,1-Dichloroethane	7.78	63	1326342	56.82	ug/l	100
24) Vinyl acetate	7.69	43	1186008	53.05	ug/l	100
25) tert-Butyl ethyl ether (ET	8.06	59	1788208	58.75	ug/l	100
26) 2-Butanone	8.24	43	1149648	212.96	ug/l	100
27) 2,2-Dichloropropane	8.51	77	694185	48.04	ug/l	99
28) cis-1,2-Dichloroethene	8.57	61	1206849	57.71	ug/l	98
30) Chloroform	8.76	83	1299314	57.22	ug/l	100
31) Bromochloromethane	9.02	49	737204	58.30	ug/l	98
32) 1,1,1-Trichloroethane	9.30	97	899264	55.36	ug/l	99
34) tert-Amyl methyl ether (TA	9.55	73	1825851	57.00	ug/l	99
37) 1,1-Dichloropropene	9.49	77	344895	56.03	ug/l	99

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

Data File : D:\HPCHEM\1\data\06C29\RCC690.D

Vial: 21

Acq On : 30 Mar 2006 3:52 pm

Operator: CGM

Sample : 06C222-01S 5.0mL

Inst : TO67

Misc : DF=1.0 MSD

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 16:22 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.67	119	812068	56.32	ug/l	100
39) 1,2-Dichloroethane	9.82	62	766589	56.88	ug/l	100
40) Benzene	9.90	78	3282590	55.60	ug/l	99
41) Trichloroethene	10.73	130	885751	54.43	ug/l	99
43) 1,2-Dichloropropane	10.98	63	912780	57.22	ug/l	99
44) Bromodichloromethane	11.37	83	1001431	57.66	ug/l	100
45) Dibromomethane	11.50	93	553571	57.41	ug/l	98
46) 2-Chloroethyl vinyl ether	11.73	63	1612	0.67	ug/l	# 1
47) 4-Methyl-2-pentanone	11.74	43	2701362	219.51	ug/l	98
48) cis-1,3-Dichloropropene	12.20	75	1125203	55.29	ug/l	100
50) Toluene	12.84	91	3162673	55.65	ug/l	100
51) Ethyl methacrylate	12.89	69	832927	59.44	ug/l	99
52) trans-1,3-Dichloropropene	13.07	75	820387	55.95	ug/l	99
53) 1,1,2-Trichloroethane	13.41	97	671481	56.30	ug/l	100
54) 2-Hexanone	13.26	43	1734448	214.90	ug/l	99
55) 1,3-Dichloropropane	13.87	76	1151967	57.02	ug/l	100
56) Tetrachloroethene	14.11	164	595484	52.95	ug/l	99
57) Dibromochloromethane	14.53	129	782037	58.60	ug/l	99
58) 1,2-Dibromoethane	14.96	107	759191	57.58	ug/l	100
59) 1-Chlorohexane	15.06	91	1233734	56.50	ug/l	100
60) Chlorobenzene	15.81	112	2203724	56.21	ug/l	99
61) 1,1,1,2-Tetrachloroethane	15.85	131	698016	56.99	ug/l	99
62) Ethylbenzene	15.85	91	3473346	56.63	ug/l	100
63) m-Xylene & p-Xylene	16.02	91	5242182	113.94	ug/l	99
64) o-Xylene	17.03	91	2734654	57.82	ug/l	100
65) Styrene	17.09	104	2033216	53.24	ug/l	99
67) Bromoform	18.00	173	442295	56.40	ug/l	99
68) Isopropylbenzene	17.82	105	3087750	56.13	ug/l	99
69) 1,1,2,2-Tetrachloroethane	18.22	83	1019905	55.37	ug/l	100
71) 1,2,3-Trichloropropane	18.59	61	171856	56.01	ug/l	99
72) trans-1,4-Dichloro-2-buten	18.70	53	72078	45.95	ug/l	100
73) n-Propylbenzene	18.80	91	4099865	56.21	ug/l	100
74) Bromobenzene	19.03	156	781294	54.66	ug/l	99
75) 2-Chlorotoluene	19.32	91	2524216	55.20	ug/l	100
76) 1,3,5-Trimethylbenzene	19.17	105	2473332	55.35	ug/l	100
77) 4-Chlorotoluene	19.41	91	2186343	55.66	ug/l	99
78) tert-Butylbenzene	20.08	119	2242099	56.95	ug/l	98
79) 1,2,4-Trimethylbenzene	20.19	105	2391550	55.64	ug/l	100
80) sec-Butylbenzene	20.63	105	3541957	57.03	ug/l	100
81) p-Isopropyltoluene	20.96	119	2290521	56.22	ug/l	100
82) 1,3-Dichlorobenzene	21.32	146	1394993	52.90	ug/l	100

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

Data File : D:\HPCHEM\1\data\06C29\RCC690.D

Vial: 21

Acq On : 30 Mar 2006 3:52 pm

Operator: CGM

Sample : 06C222-01S 5.0mL

Inst : TO67

Misc : DF=1.0 MSD

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 16:22 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.59	146	1361219	52.50	ug/l	100
84) n-Butylbenzene	22.03	91	1986280	45.92	ug/l	100
85) 1,2-Dichlorobenzene	22.59	146	1266208	53.24	ug/l	100
86) 1,2-Dibromo-3-chloropropan	24.67	157	110878	52.42	ug/l	99
87) 1,2,4-Trichlorobenzene	27.10	180	408520	40.56	ug/l	100
88) Hexachlorobutadiene	27.44	225	237146	50.97	ug/l	99
89) Naphthalene	27.84	128	799608	38.20	ug/l	100
90) 1,2,3-Trichlorobenzene	28.53	180	336811	40.83	ug/l	100

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

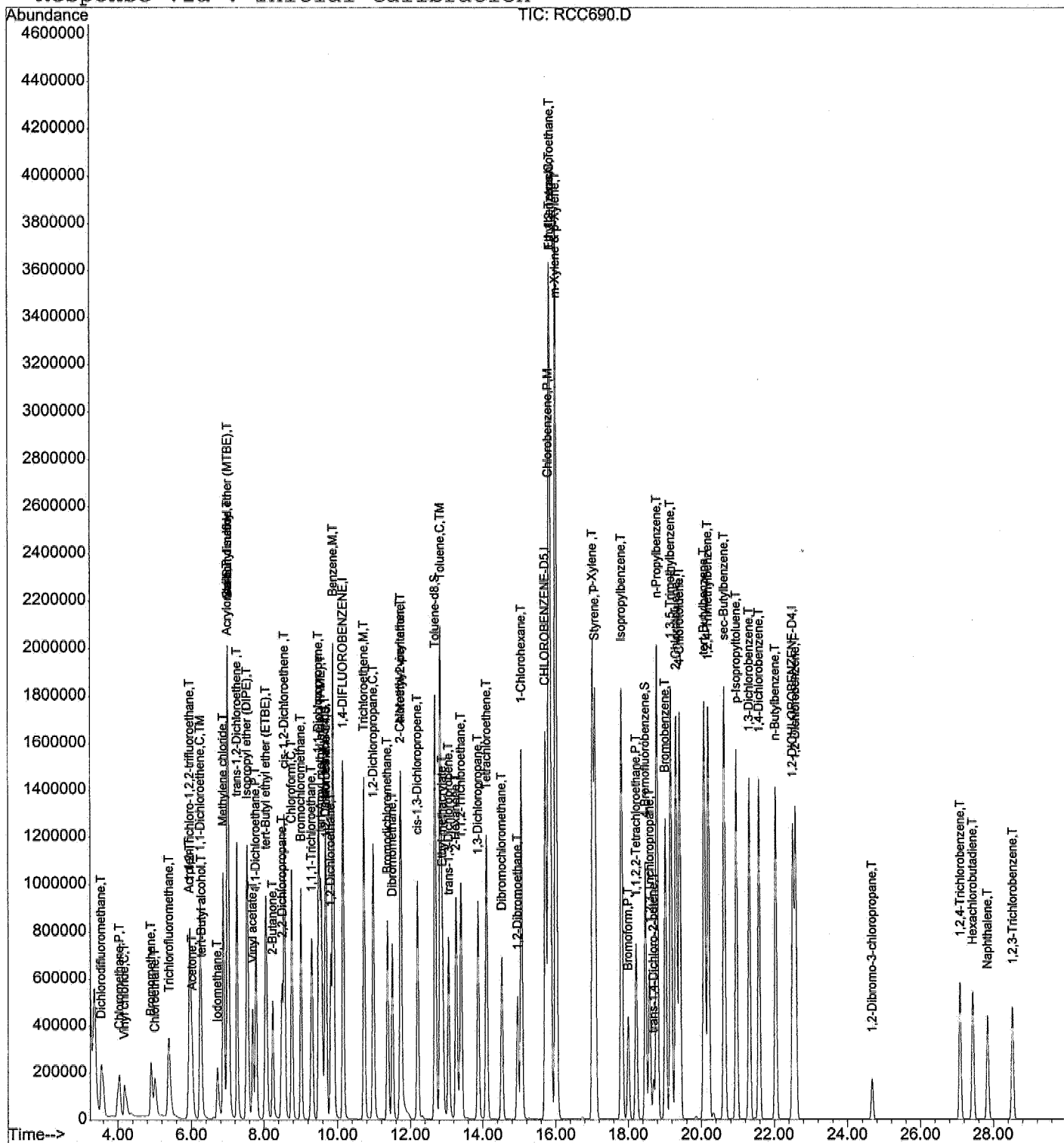
Quantitation Report

Data File : D:\HPCHEM\1\data\06C29\RCC690.D
 Acq On : 30 Mar 2006 3:52 pm
 Sample : 06C222-01S 5.0mL
 Misc : DF=1.0 MSD
 MS Integration Params: LSCINT.P
 Quant Time: Mar 30 16:22 2006

Vial: 21
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration



INITIAL CALIBRATIONS

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T067
 Beginning Date/Time :03/23/06 16:23
 Spike Units :PPB
 IC File :rcc488

Column Spec :RTX502.2 ID :0.32MM
 Ending Date/Time :03/23/06 18:44
 HPChem Method :vo67c23

M	IDX	Parameters	20:31 rcc495	21:07 rcc496	21:40 rcc497	22:18 rcc498	16:23 rcc488	16:58 rcc489	17:34 rcc490	18:09 rcc491	18:44 rcc492	Av RRF	% RSD	Av Rt M
1	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	10.1439
2	2	Dichlorodifluoromethane	0.232	0.254	0.248	0.248	0.248	0.256	0.255	0.245	0.238	0.247	3.21	3.5339
3	3	Chloromethane	0.192	0.204	0.190	0.203	0.204	0.217	0.220	0.219	0.217	0.207	5.65	4.0221
4	4	Vinyl chloride	0.213	0.220	0.207	0.192	0.140	0.118	0.114	-----	-----	0.172	26.98	4.1703
5	5	Bromomethane	-----	0.253	0.232	0.217	0.158	0.161	0.170	0.160	0.162	0.189	20.35	4.8980
6	6	Chloroethane	0.119	0.117	0.116	0.115	0.113	0.119	0.115	0.114	0.109	0.115	2.66	5.0002
7	7	Trichlorofluoromethane	0.236	0.255	0.252	0.255	0.247	0.256	0.257	0.249	0.243	0.250	2.81	5.3775
8	8	sec-Propyl alcohol	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	0.00	0.0000
9	9	Acrolein	0.028	0.027	0.031	0.030	0.032	0.031	0.033	0.031	0.029	0.030	6.18	5.9468
10	10	1,1,2-Trichloro-1,2,2-trifluoroethane	0.186	0.188	0.191	0.204	0.187	0.173	0.178	0.186	0.186	0.187	4.66	5.9518
11	11	Acetone	0.065	0.053	0.059	0.056	0.059	0.056	0.055	0.054	0.052	0.056	7.21	6.0180
12	12	1,1-Dichloroethene	0.365	0.373	0.384	0.402	0.385	0.365	0.356	0.380	0.362	0.375	3.85	6.2348
13	13	tert-Butyl alcohol	0.014	0.016	0.020	0.022	0.022	0.019	0.019	0.021	0.019	0.019	14.59	6.2861
14	14	Acetonitrile	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	0.00	0.0000
15	15	Methyl acetate	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	0.00	0.0000
16	16	Iodomethane	-----	0.083	0.098	0.143	0.272	0.312	0.319	0.360	0.349	0.242	47.61	6.7003
17	17	Methylene chloride	-----	0.630	0.499	0.467	0.427	0.391	0.385	0.387	0.365	0.444	19.85	6.8604
18	18	Carbon disulfide	0.942	0.938	0.944	1.009	0.995	0.902	0.914	0.958	0.912	0.946	3.87	6.9945
19	19	Acrylonitrile	0.079	0.071	0.081	0.075	0.083	0.075	0.075	0.072	0.067	0.075	6.76	6.9812
20	20	tert-Butyl methyl ether (MTBE)	0.476	0.451	0.506	0.550	0.516	0.475	0.489	0.515	0.473	0.495	6.04	7.0044
21	21	trans-1,2-Dichloroethene	0.354	0.372	0.379	0.415	0.408	0.379	0.374	0.395	0.372	0.383	5.06	7.2460
22	22	Isopropyl ether (DIPE)	0.806	0.817	0.856	0.948	0.909	0.862	0.863	0.908	0.846	0.868	5.30	7.5340
23	23	1,1-Dichloroethane	0.484	0.478	0.484	0.530	0.515	0.486	0.481	0.487	0.458	0.489	4.30	7.7756
24	24	Vinyl acetate	0.431	0.408	0.400	0.456	0.516	0.498	0.504	0.529	0.475	0.468	10.16	7.6829
25	25	tert-Butyl ethyl ether (ETBE)	0.589	0.586	0.639	0.693	0.661	0.632	0.642	0.666	0.633	0.638	5.40	8.0536
26	26	2-Butanone	0.115	0.100	0.120	0.109	0.122	0.114	0.114	0.115	0.108	0.113	5.77	8.2456
27	27	2,2-Dichloropropane	0.286	0.284	0.295	0.316	0.320	0.299	0.300	0.317	0.309	0.303	4.41	8.4906
28	28	cis-1,2-Dichloroethene	0.423	0.399	0.441	0.488	0.470	0.395	0.442	0.456	0.430	0.438	6.99	8.5584
29	29	tert-Butyl formate (TBF)	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	0.00	0.0000
30	30	Chloroform	0.470	0.452	0.464	0.515	0.494	0.465	0.461	0.490	0.471	0.476	4.16	8.7537
31	31	Bromochloromethane	0.247	0.254	0.266	0.290	0.279	0.263	0.264	0.268	0.255	0.265	4.94	8.9970
32	32	1,1,1-Trichloroethane	0.330	0.338	0.331	0.357	0.351	0.331	0.327	0.350	0.348	0.340	3.33	9.2916
33	33	Cyclohexane	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	0.00	0.0000
34	34	tert-Amyl methyl ether (TAME)	0.612	0.615	0.663	0.741	0.697	0.667	0.665	0.713	0.668	0.671	6.25	9.5514
35	35	1,2-Dichloroethane-d4	0.230	0.222	0.218	0.226	0.186	0.226	0.227	0.217	0.200	0.217	6.74	9.6838
36	36	CHLOROBEZENE-D5	1	1	1	1	1	1	1	1	1	1	0	15.7096
37	37	1,1-Dichloropropene	0.145	0.144	0.139	0.154	0.147	0.139	0.137	0.140	0.138	0.143	3.91	9.4869
38	38	Carbon tetrachloride	0.329	0.331	0.317	0.362	0.341	0.323	0.324	0.341	0.340	0.334	4.04	9.6606
39	39	1,2-Dichloroethane	0.314	0.303	0.298	0.336	0.324	0.311	0.304	0.316	0.303	0.312	3.84	9.8096
40	40	Benzene	1.455	1.413	1.342	1.468	1.387	1.314	1.277	1.349	1.307	1.368	4.89	9.8791
41	41	Trichloroethene	0.385	0.383	0.367	0.404	0.377	0.364	0.360	0.378	0.375	0.377	3.50	10.7182
42	42	Methylcyclohexane	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.000	0.00	0.0000
43	43	1,2-Dichloropropane	0.372	0.356	0.356	0.400	0.383	0.370	0.364	0.370	0.355	0.370	4.01	10.9714
44	44	Bromodichloromethane	0.382	0.377	0.376	0.433	0.412	0.404	0.400	0.421	0.417	0.402	5.09	11.3586
45	45	Dibromomethane	0.223	0.205	0.215	0.245	0.234	0.223	0.219	0.228	0.217	0.223	5.18	11.4927
46	46	2-Chloroethyl vinyl ether	-----	0.041	0.050	0.062	0.059	0.061	0.060	-----	-----	0.056	14.53	11.6833
47	47	4-Methyl-2-pentanone	0.317	0.236	0.273	0.284	0.304	0.295	0.292	0.288	0.276	0.285	8.01	11.7293
48	48	cis-1,3-Dichloropropene	0.430	0.418	0.435	0.506	0.491	0.484	0.478	0.506	0.496	0.472	7.27	12.1928
49	49	Toluene-d8	1.385	1.080	1.085	1.110	0.884	1.132	1.134	1.075	1.043	1.103	11.76	12.6777
50	50	Toluene	1.388	1.323	1.274	1.403	1.337	1.286	1.267	1.312	1.261	1.317	3.91	12.8250
51	51	Ethyl methacrylate	-----	0.242	0.282	0.334	0.346	0.343	0.345	0.362	0.342	0.325	12.59	12.8835
52	52	trans-1,3-Dichloropropene	0.292	0.286	0.312	0.373	0.356	0.354	0.354	0.374	0.357	0.340	9.98	13.0484
53	53	1,1,2-Trichloroethane	0.275	0.258	0.271	0.304	0.285	0.273	0.271	0.281	0.269	0.276	4.60	13.3893
54	54	2-Hexanone	0.284	0.157	0.167	0.168	0.190	0.190	0.192	0.191	0.182	0.191	19.39	13.2602
55	55	1,3-Dichloropropane	0.466	0.444	0.456	0.511	0.481	0.456	0.465	0.479	0.455	0.468	4.22	13.8610
56	56	Tetrachloroethene	0.268	0.261	0.253	0.279	0.262	0.249	0.245	0.262	0.264	0.261	3.95	14.0943
57	57	Dibromochloromethane	0.254	0.274	0.286	0.335	0.317	0.317	0.316	0.340	0.333	0.309	9.02	14.5163
58	58	1,2-Dibromoethane	0.281	0.280	0.290	0.335	0.322	0.310	0.307	0.317	0.307	0.306	6.05	14.9450
59	59	1-Chlorohexane	0.448	0.457	0.458	0.547	0.528	0.522	0.516	0.539	0.538	0.506	7.87	15.0526
60	60	Chlorobenzene	0.962	0.896	0.873	0.974	0.918	0.888	0.884	0.909	0.872	0.908	4.10	15.7973
61	61	1,1,1,2-Tetrachloroethane	0.276	0.272	0.269	0.312	0.289	0.283	0.279	0.292	0.281	0.284	4.53	15.8420
62	62	Ethylbenzene	1.449	1.396	1.358	1.531	1.476	1.424	1.383	1.422	1.351	1.421	4.09	15.8403
63	63	m-Xylene & p-Xylene	1.044	1.035	0.994	1.164	1.092	1.069	1.050	1.081	-----	1.066	4.67	15.9962
64	64	o-Xylene	1.050	1.015	1.025	1.179	1.138	1.099	1.101	1.148	1.108	1.096	5.13	17.0166
65	65	Styrene	0.755	0.768	0.791	0.952	0.934	0.931	0.917	0.976	0.941	0.885	9.85	17.0795
66	66	1,2-DICHLOROBEZENE-D4	1	1	1	1	1	1	1	1	1	1	0	22.4995
67	67	Bromoform	0.489	0.464	0.508	0.554	0.521	0.499	0.491	0.526	0.516	0.508	5.12	17.9864
68	68	Isopropylbenzene	3.661	3.693	3.565	3.852	3.604	3.378	3.318	3.496	3.481	3.561	4.63	17.8077
69	69	1,1,2,2-Tetrachloroethane	1.298	1.205	1.253	1.303	1.236	1.124	1.100	1.132	1.081	1.192	7.17	18.2098
70	70	4-Bromofluorobenzene	-----	1.168	1.150	1.154	0.886	1.099	1.068	1.010	0.971	1.063	9.47	18.4630
71	71	1,2,3-Trichloropropane	0.199	0.201	0.219	0.225	0.211	0.189	0.183	0.187	0.173	0.199	8.64	18.5822
72	72	trans-1,4-Dichloro-2-butene	-----	0.068	0.095	0.103	0.108	0.106	0.104	0.115	0.113	0.102	14.57	18.6883
73	73	n-Propylbenzene	4.506	4.608	4.611	5.114	4.953	4.748	4.598	4.815	4.539	4.721	4.35	18.7808
74	74	Bromobenzene	1.028	0.957	0.934	0.995	0.902	0.868	0.839	0.905	0.900	0.925	6.49	19.0141
75	75	2-Chlorotoluene	3.294	3.134	3.039	3.213	3.018	2.792	2.660	2.779	2.713	2.960	7.81	19.3021
76	76	1,3,5-Trimethylbenzene	2.777	2.861	2.833	3.147	2.975	2.876	2.761	2.896	2.908	2.893	4.00	19.1631
77	77	4-Chlorotoluene	2.732	2.606	2.460	2.692	2.483	2.459	2.434	2.519	2.501	2.543	4.26	19.4014
78	78	tert-Butylbenzene	2.424	2.493	2.468	2.778	2.640	2.495	2.446	2.601	2.593	2.549	4.48	20.0717
79	79	1,2,4-Trimethylbenzene	2.569	2.612	2.661	3.021	2.916	2.794	2.736	2.881	2.852	2.782	5.41	20.1792
80	80	sec-Butylbenzene	3.480	3.588	3.739	4.298	4.283	4.131	4.006	4.333	4.324	4.020	8.38	20.6211
81	81	p-Isopropyltoluene	2.027	2.161	2.298	2.814	2.819	2.788	2.766	2.983	3.078	2.637	14.27	20.9504
82	82	1,3												

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
 Resp_Ratio = x0 + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
4	Vinyl chloride	0.00787	0.12162	0.9811*
5	Bromomethane	0.01207	0.15895	0.9989
16	Iodomethane	-0.04368	0.35135	0.9965
17	Methylene chloride	0.02904	0.37110	0.9994
54	2-Hexanone	0.00409	0.18606	0.9990
84	n-Butylbenzene	-0.20469	3.02309	0.9984
87	1,2,4-Trichlorobenzene	-0.05043	0.71420	0.9961
88	Hexachlorobutadiene	-0.02719	0.37935	0.9942*
89	Naphthalene	-0.12727	1.52146	0.9954
90	1,2,3-Trichlorobenzene	-0.04281	0.58642	0.9961

Use Quadratic Regression of inv conc w.f. for comps of linear reg of inv conc w.f. with CCF < .995
 Resp_Ratio = x0 + x1 * Amt_Ratio + x2 * Amt_Ratio * Amt_Ratio

IDX	Parameter	x0	x1	x2	CCF2
4	Vinyl chloride	0.00224	0.18894	-0.04118	0.9968
88	Hexachlorobutadiene	-0.00584	0.28524	0.02123	0.9998

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Compound List Report T067

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration
 Total Cpnds : 90

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	10.14	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	3.53	0.348	A	2	A	B
3	T	Chloromethane	50	4.02	0.396	A	1	A	B
4	T	Vinyl chloride	62	4.17	0.411	Q	1	A	B
5	T	Bromomethane	94	4.90	0.483	L	1	A	B
6	T	Chloroethane	64	5.00	0.493	A	2	A	B
7	T	Trichlorofluoromethane	101	5.37	0.530	A	1	A	B
8	T	sec-Propyl alcohol	45	6.21	0.612	A	1	A	B
9	T	Acrolein	56	5.94	0.586	A	1	A	B
10	T	1,1,2-Trichloro-1,2,2-trifluor	151	5.95	0.587	A	1	A	B
11	T	Acetone	43	6.01	0.593	A	1	A	B
12	T	1,1-Dichloroethene	61	6.24	0.615	A	2	A	B
13	T	tert-Butyl alcohol	59	6.27	0.618	A	1	A	B
14	T	Acetonitrile	41	7.00	0.690	A	2	A	B
15		Methyl acetate	43	6.59	0.650	A	1	A	B
16	T	Iodomethane	142	6.70	0.661	L	2	A	B
17	T	Methylene chloride	49	6.86	0.677	L	2	A	B
18	T	Carbon disulfide	76	7.00	0.690	A	1	A	B
19	T	Acrylonitrile	53	6.98	0.689	A	2	A	B
20	T	tert-Butyl methyl ether (MTBE)	73	7.00	0.690	A	1	A	B
21	T	trans-1,2-Dichloroethene	61	7.24	0.714	A	2	A	B
22	T	Isopropyl ether (DIPE)	45	7.53	0.743	A	1	A	B
23	T	1,1-Dichloroethane	63	7.77	0.766	A	2	A	B
24	T	Vinyl acetate	43	7.68	0.758	A	1	A	B
25	T	tert-Butyl ethyl ether (ETBE)	59	8.05	0.794	A	1	A	B
26	T	2-Butanone	43	8.23	0.812	A	1	A	B
27	T	2,2-Dichloropropane	77	8.49	0.837	A	3	A	B
28	T	cis-1,2-Dichloroethene	61	8.56	0.844	A	2	A	B
29	T	tert-Butyl formate (TBF)	59	9.81	0.968	A	2	A	B
30	T	Chloroform	83	8.75	0.863	A	2	A	B
31	T	Bromochloromethane	49	8.99	0.887	A	2	A	B
32	T	1,1,1-Trichloroethane	97	9.29	0.916	A	2	A	B
33	T	Cyclohexane	56	9.26	0.913	A	2	A	B
34	T	tert-Amyl methyl ether (TAME)	73	9.54	0.941	A	2	A	B
35	S	1,2-Dichloroethane-d4	65	9.68	0.954	A	1	A	B
36	I	CHLOROBENZENE-D5	117	15.71	1.000	A	2	A	B
37	T	1,1-Dichloropropene	77	9.48	0.604	A	2	A	B
38	T	Carbon tetrachloride	119	9.66	0.615	A	1	A	B
39	T	1,2-Dichloroethane	62	9.81	0.625	A	2	A	B
40	T	Benzene	78	9.87	0.628	A	2	A	B
41	T	Trichloroethene	130	10.72	0.682	A	3	A	B
42	T	Methylcyclohexane	83	10.97	0.699	A	2	A	B
43	T	1,2-Dichloropropane	63	10.97	0.699	A	2	A	B
44	T	Bromodichloromethane	83	11.36	0.723	A	2	A	B
45	T	Dibromomethane	93	11.50	0.732	A	2	A	B
46	T	2-Chloroethyl vinyl ether	63	11.67	0.743	A	2	A	B
47	T	4-Methyl-2-pentanone	43	11.72	0.746	A	3	A	B
48	T	cis-1,3-Dichloropropene	75	12.20	0.776	A	3	A	B
49	S	Toluene-d8	98	12.67	0.807	A	1	A	B
50	T	Toluene	91	12.82	0.816	A	1	A	B
51	T	Ethyl methacrylate	69	12.88	0.820	A	2	A	B
52	T	trans-1,3-Dichloropropene	75	13.04	0.830	A	3	A	B

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53	T	1,1,2-Trichloroethane	97	13.39	0.852	A	3	A	B
54	T	2-Hexanone	43	13.25	0.844	L	2	A	B
55	T	1,3-Dichloropropane	76	13.86	0.882	A	2	A	B
56	T	Tetrachloroethene	164	14.09	0.897	A	3	A	B
57	T	Dibromochloromethane	129	14.52	0.924	A	2	A	B
58	T	1,2-Dibromoethane	107	14.94	0.951	A	1	A	B
59	T	1-Chlorohexane	91	15.06	0.958	A	3	A	B
60	P,M	Chlorobenzene	112	15.80	1.006	A	3	A	B
61	T	1,1,1,2-Tetrachloroethane	131	15.84	1.009	A	3	A	B
62	T	Ethylbenzene	91	15.83	1.008	A	1	A	B
63	T	m-Xylene & p-Xylene	91	15.99	1.018	A	1	A	B
64	T	o-Xylene	91	17.01	1.082	A	1	A	B
65	T	Styrene	104	17.08	1.087	A	2	A	B
66	I	1,2-DICHLOROBENZENE-D4	152	22.50	1.000	A	1	A	B
67	T	Bromoform	173	17.99	0.799	A	2	A	B
68	T	Isopropylbenzene	105	17.81	0.791	A	3	A	B
69	T	1,1,2,2-Tetrachloroethane	83	18.21	0.809	A	2	A	B
70	S	4-Bromofluorobenzene	95	18.47	0.821	A	2	A	B
71	T	1,2,3-Trichloropropane	61	18.59	0.826	A	2	A	B
72	T	trans-1,4-Dichloro-2-butene	53	18.69	0.831	A	1	A	B
73	T	n-Propylbenzene	91	18.78	0.835	A	2	A	B
74	T	Bromobenzene	156	19.02	0.845	A	2	A	B
75	T	2-Chlorotoluene	91	19.30	0.858	A	1	A	B
76	T	1,3,5-Trimethylbenzene	105	19.17	0.852	A	2	A	B
77	T	4-Chlorotoluene	91	19.40	0.862	A	1	A	B
78	T	tert-Butylbenzene	119	20.07	0.892	A	2	A	B
79	T	1,2,4-Trimethylbenzene	105	20.18	0.897	A	1	A	B
80	T	sec-Butylbenzene	105	20.61	0.916	A	1	A	B
81	T	p-Isopropyltoluene	119	20.95	0.931	A	2	A	B
82	T	1,3-Dichlorobenzene	146	21.31	0.947	A	2	A	B
83	T	1,4-Dichlorobenzene	146	21.58	0.959	A	2	A	B
84	T	n-Butylbenzene	91	22.02	0.979	L	2	A	B
85	T	1,2-Dichlorobenzene	146	22.58	1.003	A	2	A	B
86	T	1,2-Dibromo-3-chloropropane	157	24.66	1.096	A	2	A	B
87	T	1,2,4-Trichlorobenzene	180	27.07	1.203	L	2	A	B
88	T	Hexachlorobutadiene	225	27.43	1.219	Q	2	A	B
89	T	Naphthalene	128	27.83	1.237	L	1	A	B
90	T	1,2,3-Trichlorobenzene	180	28.50	1.267	L	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin

#Qual = number of qualifiers

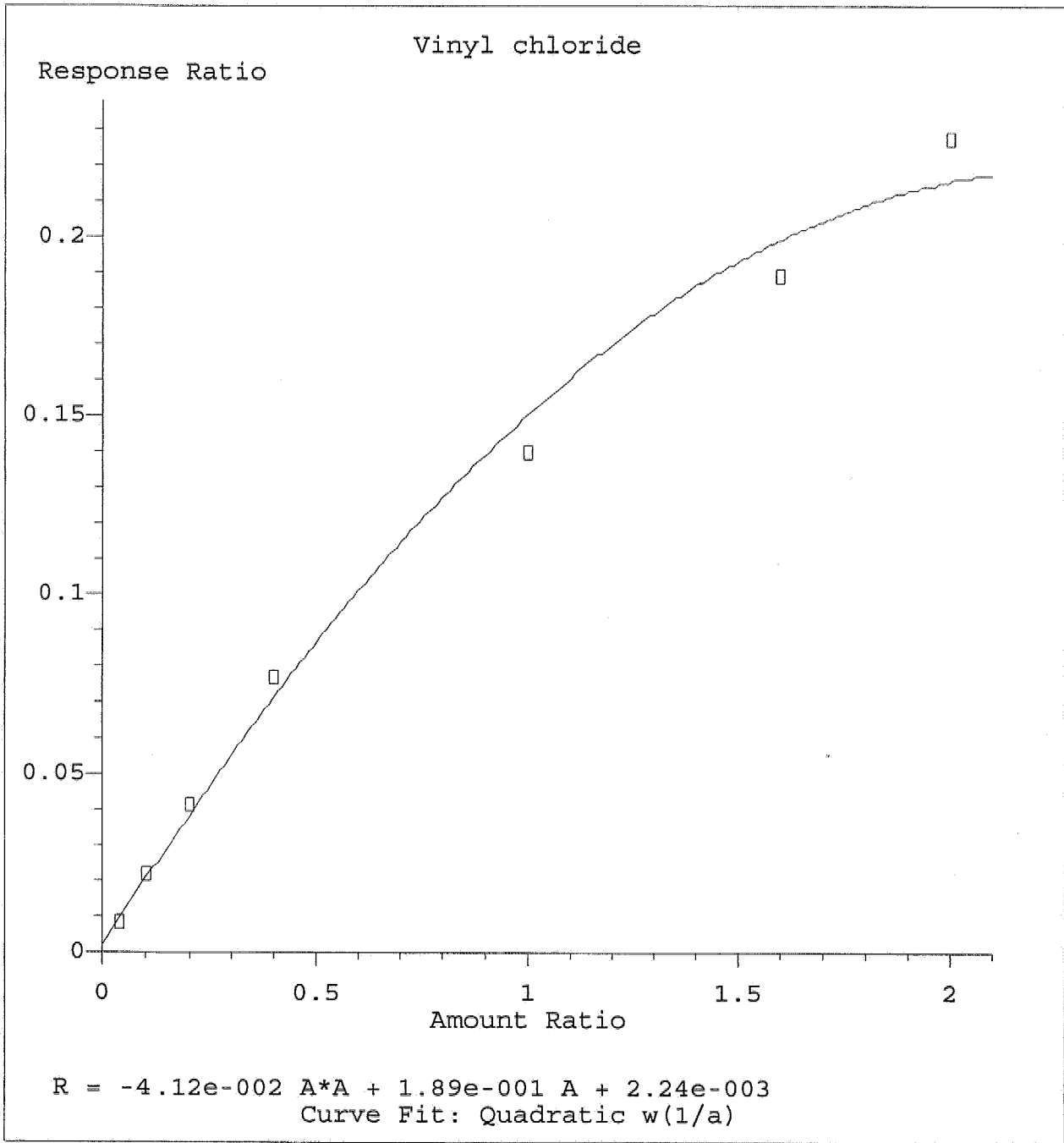
A/H = Area or Height

ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

VO67C23.M

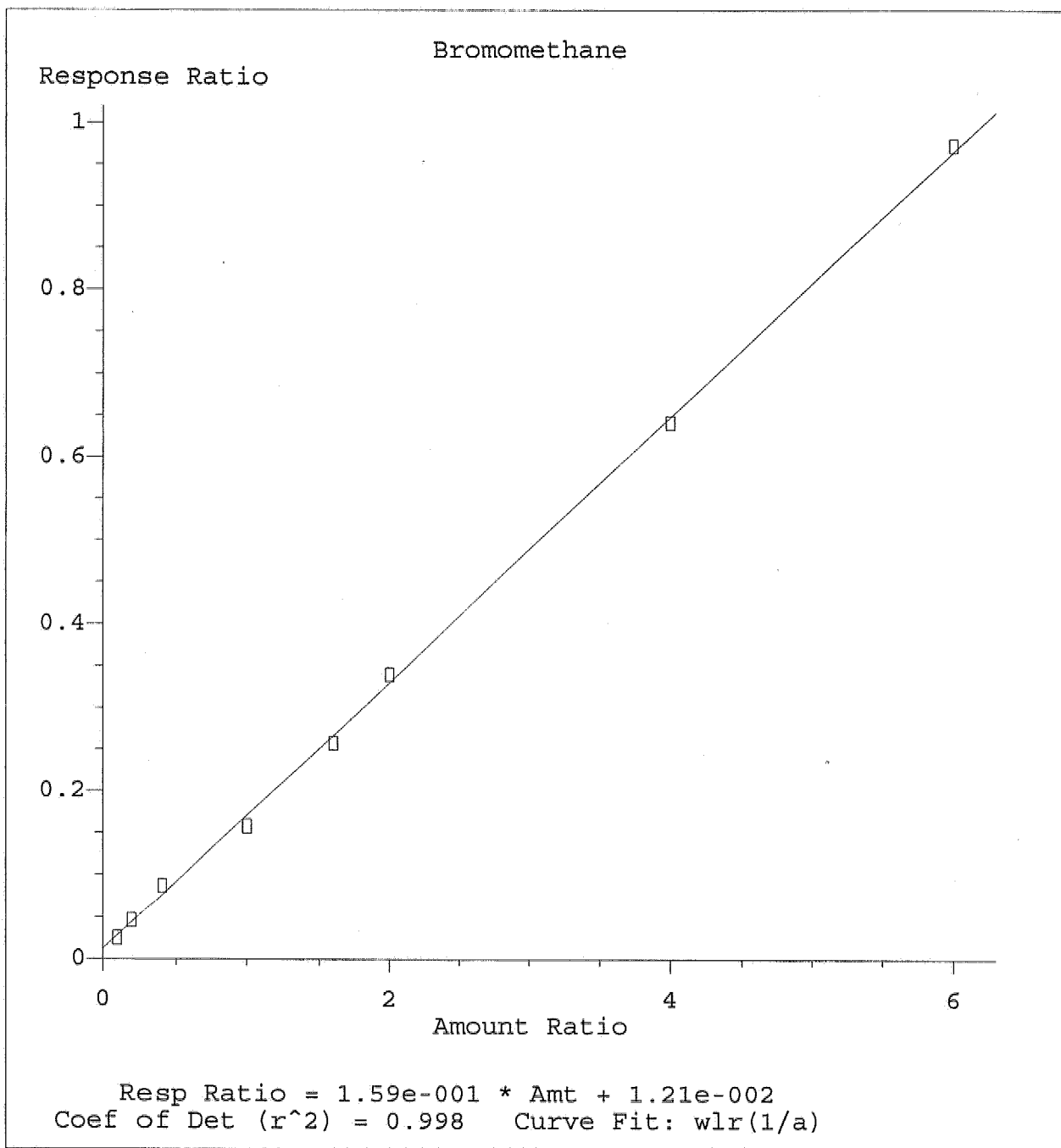
Tue Mar 28 09:45:23 2006

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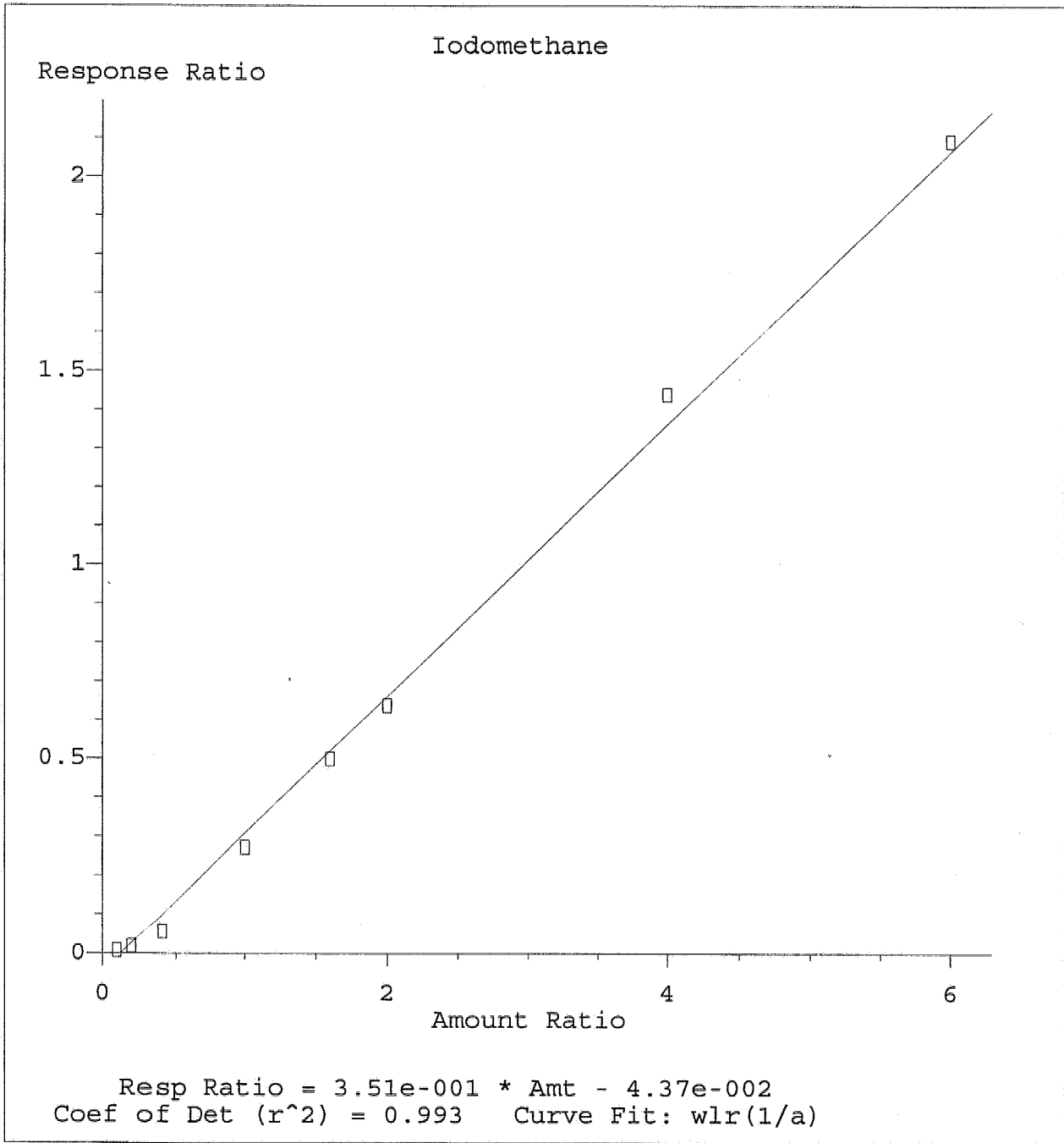
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Calibration Table Last Updated: Tue Mar 28 09:22:46 2006

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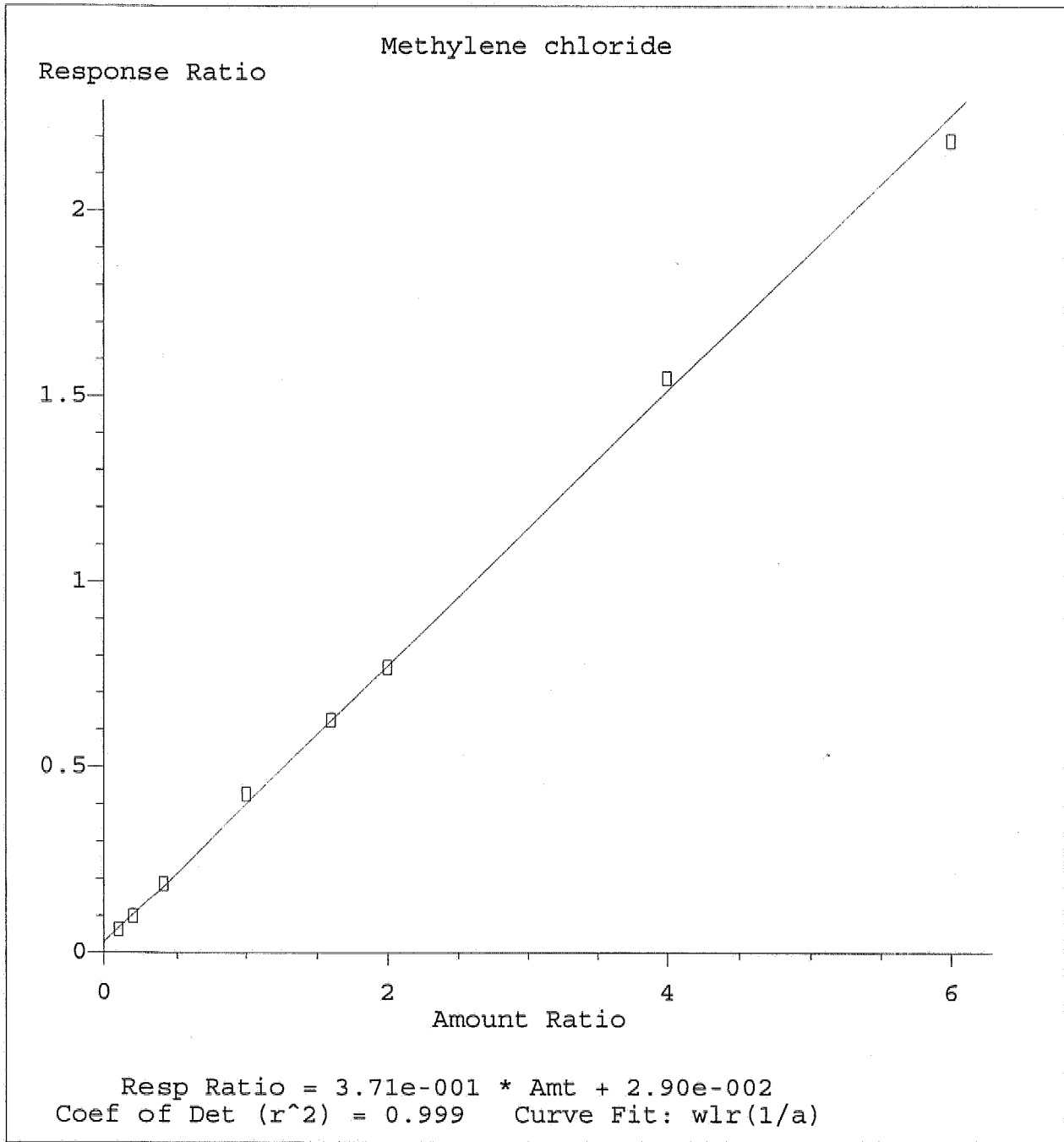
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3/28/06



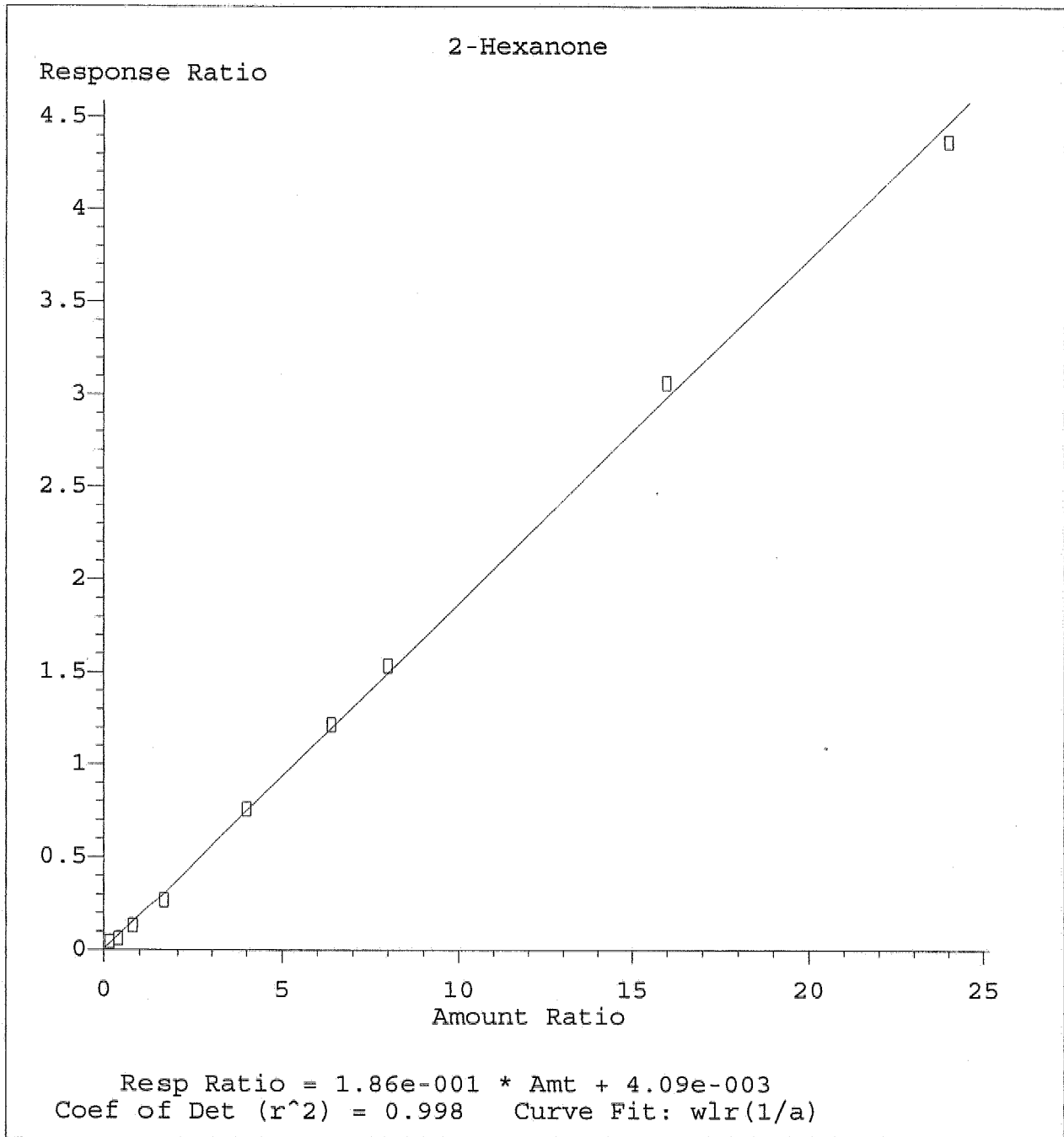
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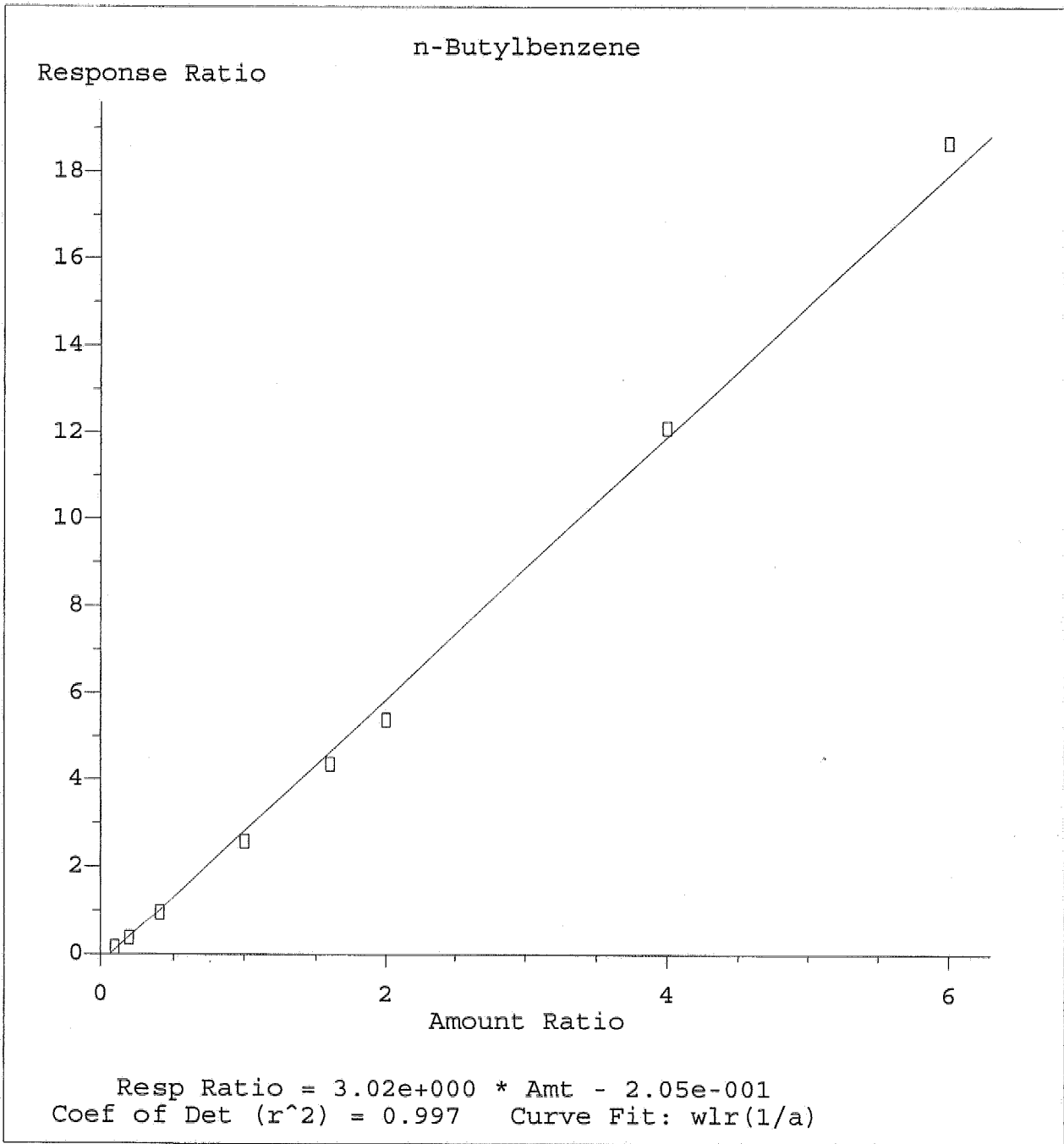
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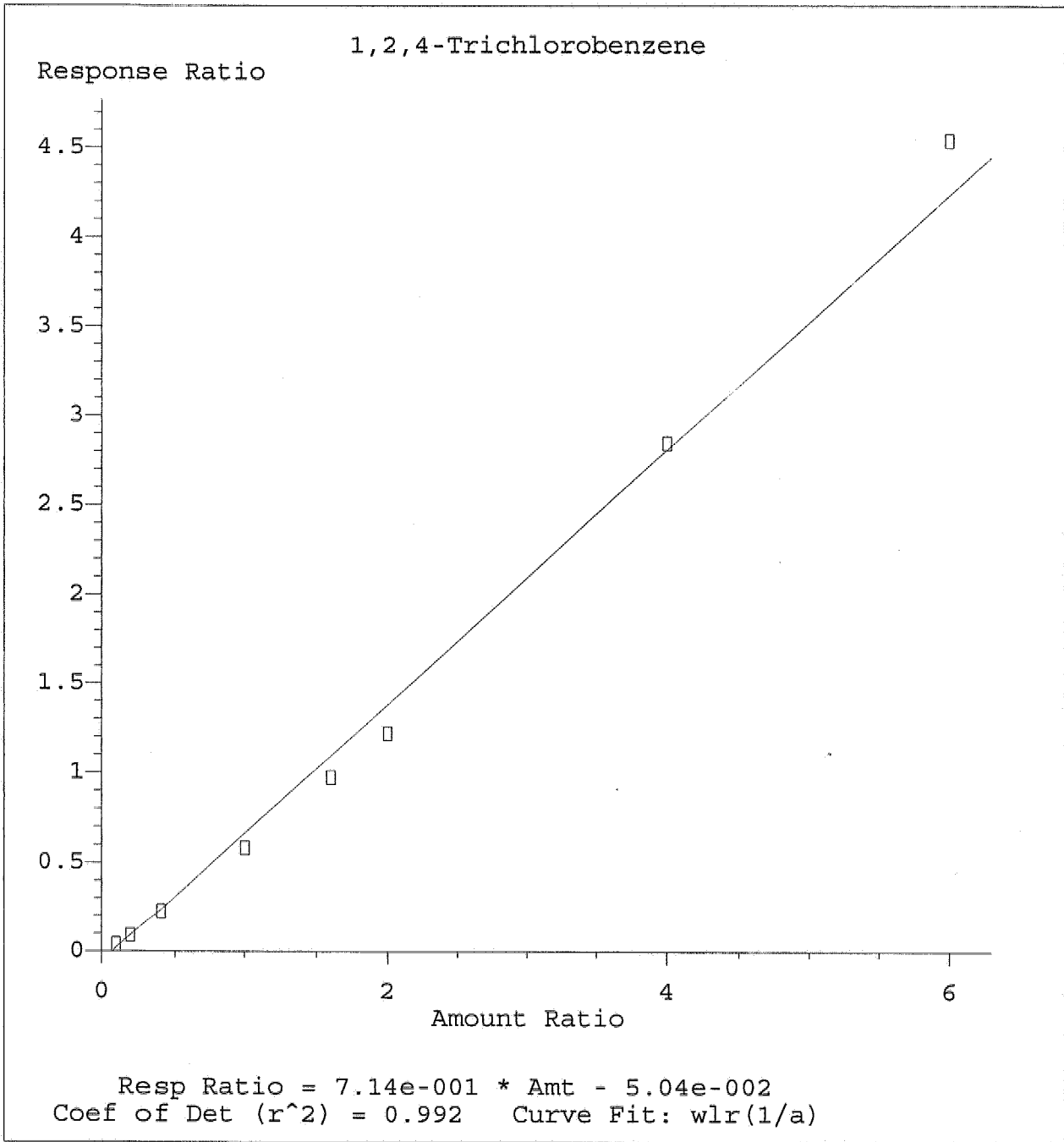
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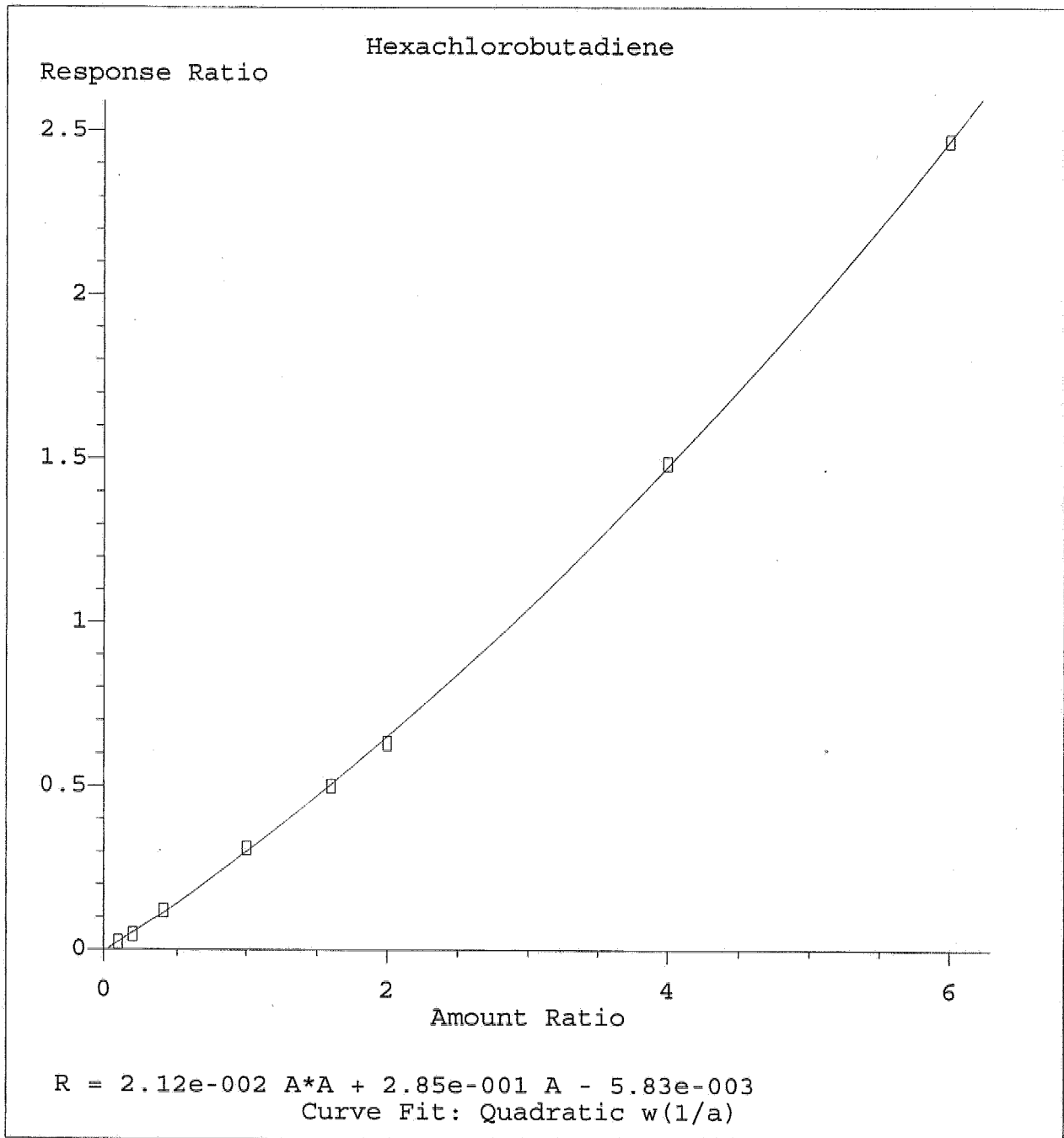
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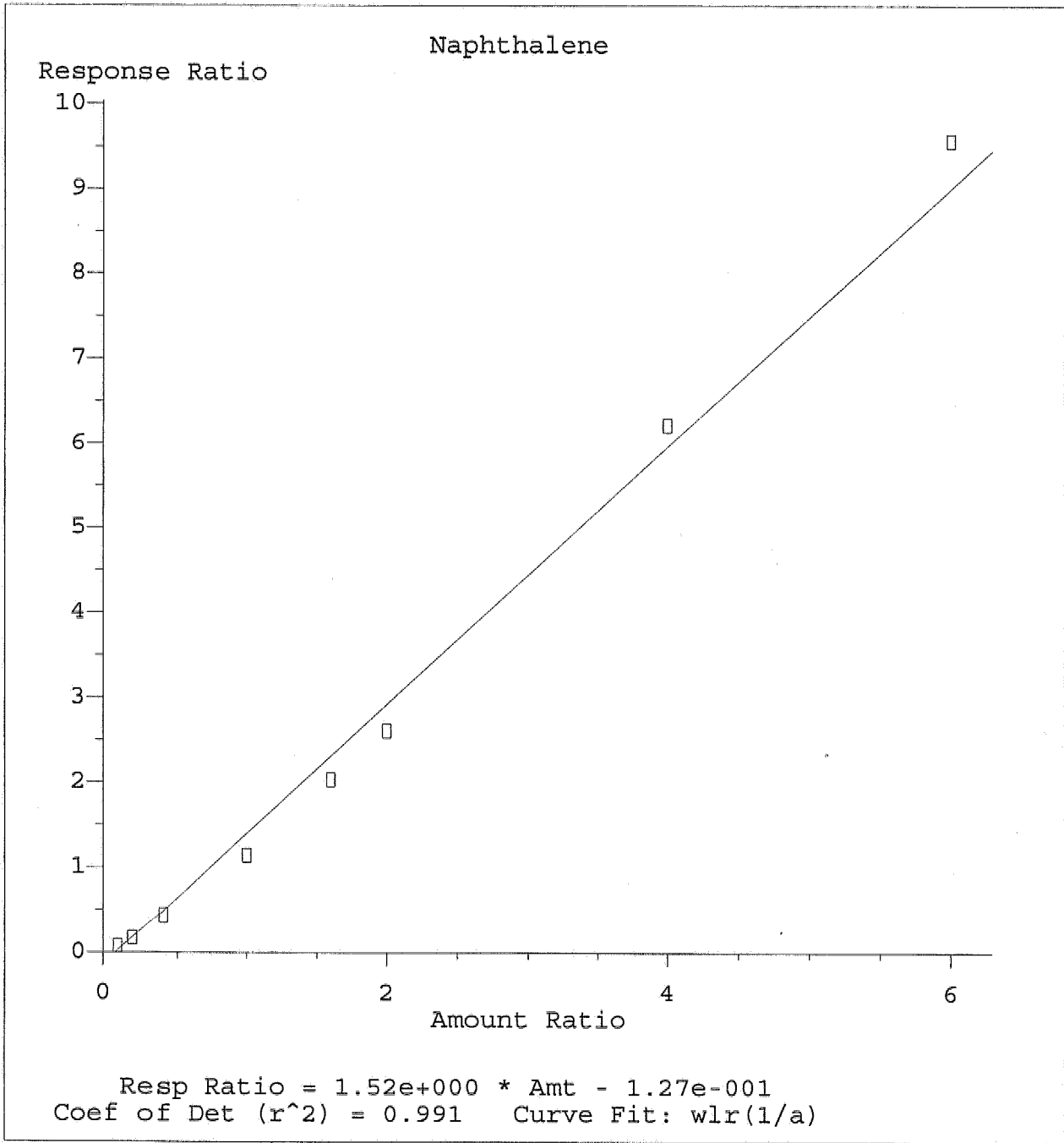
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24
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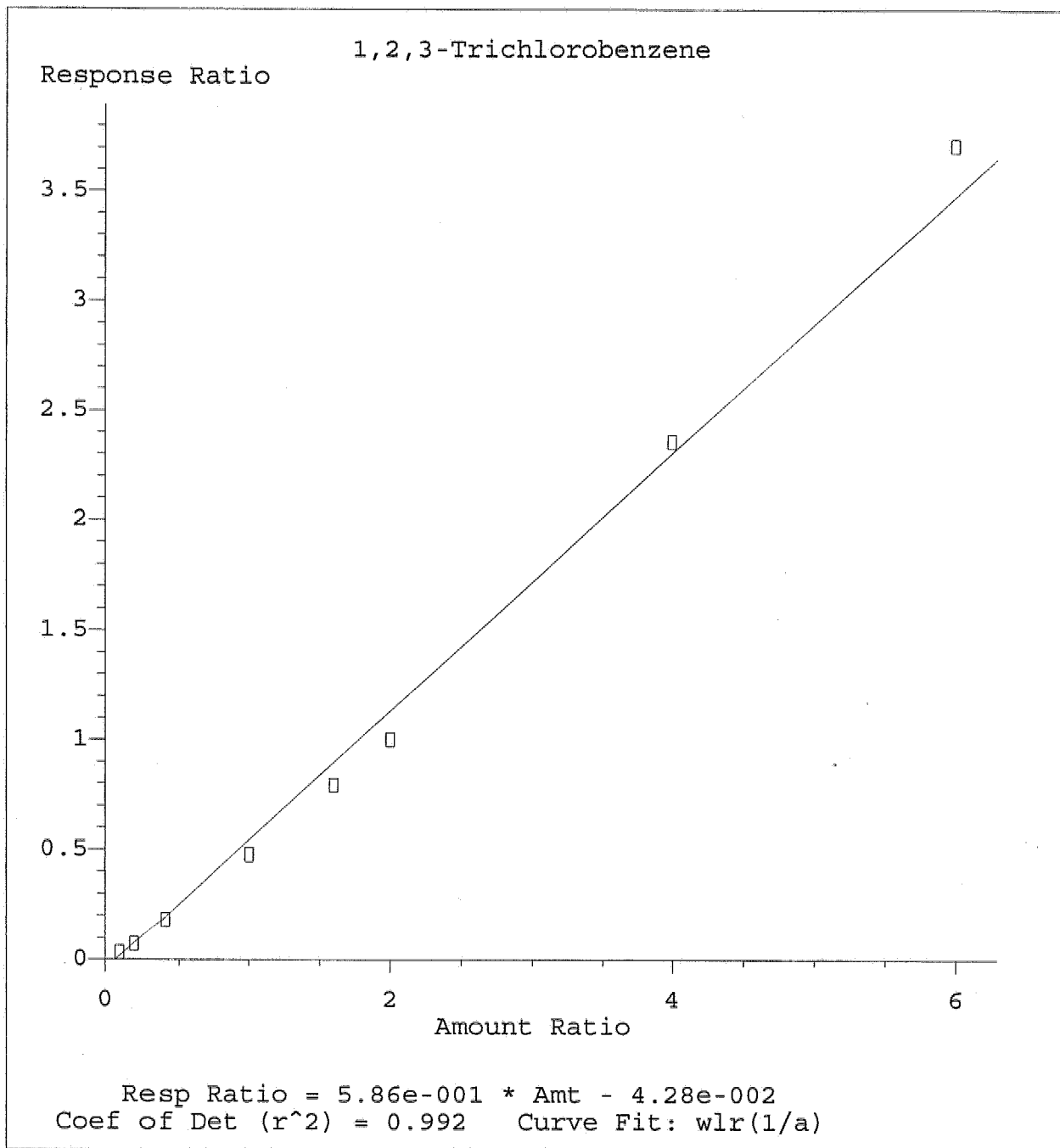
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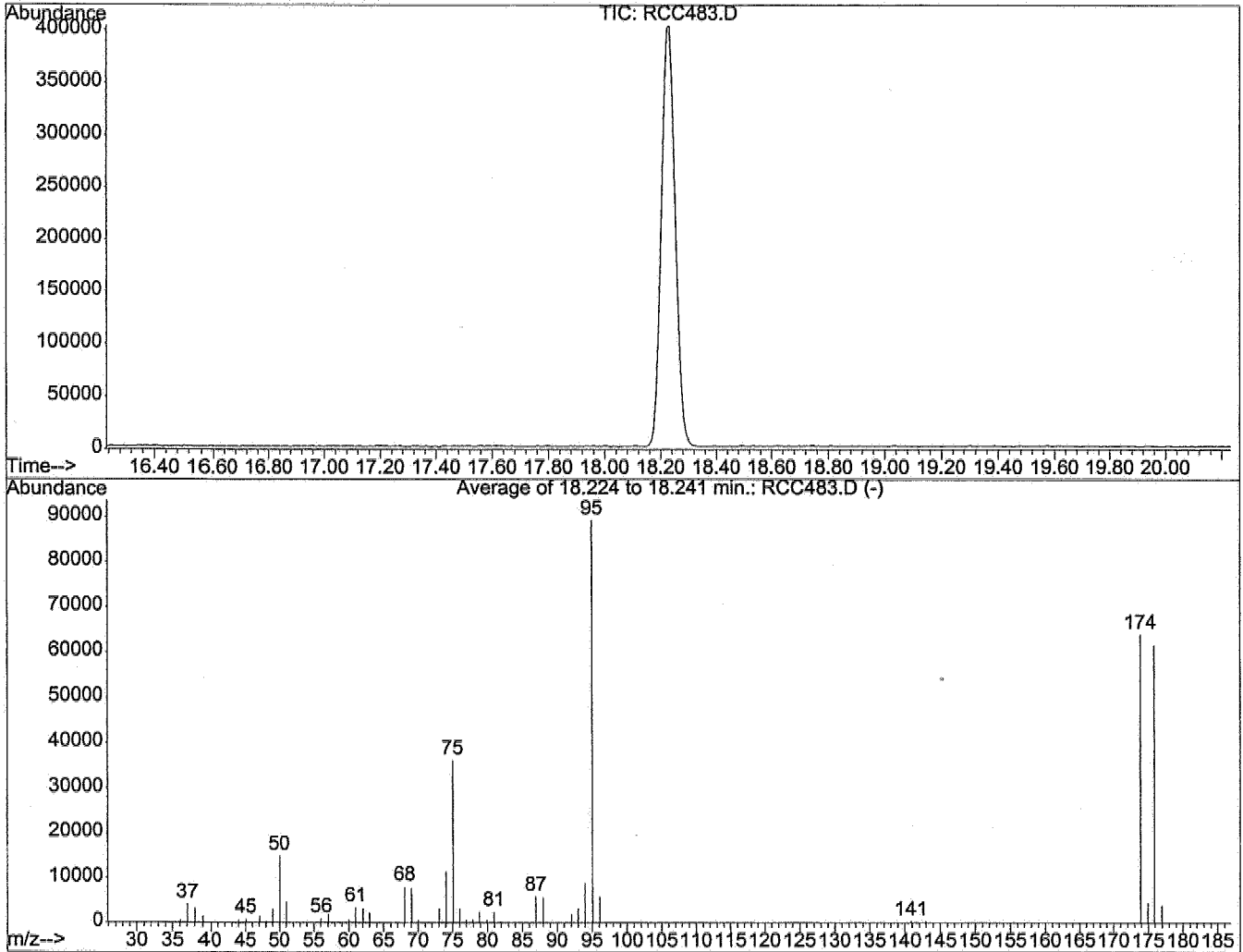
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BFB

Data File : D:\HPCHEM\1\DATA\06C23\RCC483.D
Acq On : 23 Mar 2006 1:23 pm
Sample : BFB67C32
Misc : BFB TUNE
MS Integration Params: LSCINT.P
Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml

Vial: 1
Operator: CGM
Inst : TO67
Multiplr: 1.00



AutoFind: Scans 1682, 1683, 1684; Background Corrected with Scan 1672

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	14991	PASS
75	95	30	60	40.6	36224	PASS
95	95	100	100	100.0	89312	PASS
96	95	5	9	6.6	5860	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.6	63949	PASS
175	174	5	9	7.1	4544	PASS
176	174	95	101	96.2	61499	PASS
177	176	5	9	6.4	3940	PASS

Data File : D:\HPCHEM\1\DATA\06C23\RCC488.D Vial: 6
 Acq On : 23 Mar 2006 4:23 pm Operator: CGM
 Sample : VO67C235 Inst : TO67
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:12:51 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2430846	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2219848	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	796276	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.68	65	452843	42.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.86%	
49) Toluene-d8	12.67	98	1962861	40.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.16%	
70) 4-Bromofluorobenzene	18.47	95	705201	41.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.30%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.53	85	603119	50.23	ug/l	100
3) Chloromethane	4.02	50	494781	49.05	ug/l	100
4) Vinyl chloride	4.17	62	339589	43.07	ug/l	100
5) Bromomethane	4.90	94	383682	41.72	ug/l	100
6) Chloroethane	5.00	64	275799	49.19	ug/l	100
7) Trichlorofluoromethane	5.37	101	600708	49.43	ug/l	100
9) Acrolein	5.94	56	307739	209.89	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	453706	50.04	ug/l	100
11) Acetone	6.01	43	574639	209.43	ug/l	100
12) 1,1-Dichloroethene	6.24	61	935988	51.37	ug/l	100
13) tert-Butyl alcohol	6.27	59	261478	281.98	ug/l	100
16) Iodomethane	6.70	142	661573	56.25	ug/l	100
17) Methylene chloride	6.86	49	1037070	48.06	ug/l	100
18) Carbon disulfide	7.00	76	2418030	52.57	ug/l	100
19) Acrylonitrile	6.98	53	803552	219.55	ug/l	100
20) tert-Butyl methyl ether (M	7.00	73	1254295	52.15	ug/l	100
21) trans-1,2-Dichloroethene	7.24	61	991024	53.22	ug/l	100
22) Isopropyl ether (DIPE)	7.53	45	2209746	52.35	ug/l	100
23) 1,1-Dichloroethane	7.77	63	1251275	52.62	ug/l	100
24) Vinyl acetate	7.68	43	1254076	55.06	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	1607267	51.83	ug/l	100
26) 2-Butanone	8.23	43	1190763	216.51	ug/l	100
27) 2,2-Dichloropropane	8.49	77	777434	52.80	ug/l	100
28) cis-1,2-Dichloroethene	8.56	61	1143321	53.67	ug/l	100
30) Chloroform	8.75	83	1199777	51.86	ug/l	100
31) Bromochloromethane	8.99	49	679309	52.73	ug/l	100
32) 1,1,1-Trichloroethane	9.29	97	854101	51.61	ug/l	100
34) tert-Amyl methyl ether (TA	9.54	73	1694671	51.93	ug/l	100
37) 1,1-Dichloropropene	9.48	77	325368	51.38	ug/l	100

(#) = qualifier out of range (m) = manual integration
 RCC488.D VO67C23.M Fri Mar 24 11:25:03 2006

2/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC488.D
 Acq On : 23 Mar 2006 4:23 pm
 Sample : VO67C235
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:13 2006

Vial: 6
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:12:51 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	757148	51.04	ug/l	100
39) 1,2-Dichloroethane	9.81	62	720071	51.93	ug/l	100
40) Benzene	9.87	78	3079313	50.70	ug/l	100
41) Trichloroethene	10.72	130	836931	49.99	ug/l	100
43) 1,2-Dichloropropane	10.97	63	851123	51.87	ug/l	100
44) Bromodichloromethane	11.36	83	914984	51.21	ug/l	100
45) Dibromomethane	11.50	93	520534	52.47	ug/l	100
46) 2-Chloroethyl vinyl ether	11.67	63	130086	52.76	ug/l	100
47) 4-Methyl-2-pentanone	11.72	43	2702279	213.45	ug/l	100
48) cis-1,3-Dichloropropene	12.20	75	1089143	52.02	ug/l	100
50) Toluene	12.82	91	2967442	50.75	ug/l	100
51) Ethyl methacrylate	12.88	69	769038	53.35	ug/l	100
52) trans-1,3-Dichloropropene	13.04	75	791262	52.45	ug/l	100
53) 1,1,2-Trichloroethane	13.39	97	633586	51.64	ug/l	100
54) 2-Hexanone	13.25	43	1684628	198.47	ug/l	100
55) 1,3-Dichloropropane	13.86	76	1067311	51.35	ug/l	100
56) Tetrachloroethene	14.09	164	582199	50.32	ug/l	100
57) Dibromochloromethane	14.52	129	704525	51.32	ug/l	100
58) 1,2-Dibromoethane	14.94	107	714274	52.66	ug/l	100
59) 1-Chlorohexane	15.06	91	1172308	52.19	ug/l	100
60) Chlorobenzene	15.80	112	2038174	50.54	ug/l	100
61) 1,1,1,2-Tetrachloroethane	15.84	131	641775	50.94	ug/l	100
62) Ethylbenzene	15.83	91	3277545	51.94	ug/l	100
63) m-Xylene & p-Xylene	15.99	91	4848003	102.43	ug/l	100
64) o-Xylene	17.01	91	2526275	51.92	ug/l	100
65) Styrene	17.08	104	2072482	52.75	ug/l	100
67) Bromoform	17.99	173	415140	51.35	ug/l	100
68) Isopropylbenzene	17.81	105	2870058	50.61	ug/l	100
69) 1,1,2,2-Tetrachloroethane	18.21	83	984198	51.83	ug/l	100
71) 1,2,3-Trichloropropane	18.59	61	167869	53.07	ug/l	100
72) trans-1,4-Dichloro-2-buten	18.69	53	86067	53.22	ug/l	100
73) n-Propylbenzene	18.78	91	3943910	52.45	ug/l	100
74) Bromobenzene	19.02	156	718067	48.73	ug/l	100
75) 2-Chlorotoluene	19.30	91	2403297	50.98	ug/l	100
76) 1,3,5-Trimethylbenzene	19.17	105	2368606	51.42	ug/l	100
77) 4-Chlorotoluene	19.40	91	1977516	48.83	ug/l	100
78) tert-Butylbenzene	20.07	119	2102034	51.79	ug/l	100
79) 1,2,4-Trimethylbenzene	20.18	105	2321978	52.40	ug/l	100
80) sec-Butylbenzene	20.61	105	3410337	53.27	ug/l	100
81) p-Isopropyltoluene	20.95	119	2245085	53.45	ug/l	100
82) 1,3-Dichlorobenzene	21.31	146	1350706	49.69	ug/l	100

(#) = qualifier out of range (m) = manual integration
 RCC488.D VO67C23.M Fri Mar 24 11:25:04 2006

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 3/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC488.D Vial: 6
 Acq On : 23 Mar 2006 4:23 pm Operator: CGM
 Sample : VO67C235 Inst : TO67
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:13 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:12:51 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.58	146	1318413	49.32	ug/l	100
84) n-Butylbenzene	22.03	91	2057315	53.61	ug/l	100
85) 1,2-Dichlorobenzene	22.58	146	1209724	49.34	ug/l	100
86) 1,2-Dibromo-3-chloropropan	24.66	157	115522	52.98	ug/l	100
87) 1,2,4-Trichlorobenzene	27.08	180	464092	49.57	ug/l	100
88) Hexachlorobutadiene	27.43	225	248312	50.10	ug/l	100
89) Naphthalene	27.83	128	909440	47.48	ug/l	100
90) 1,2,3-Trichlorobenzene	28.51	180	380228	49.83	ug/l	100

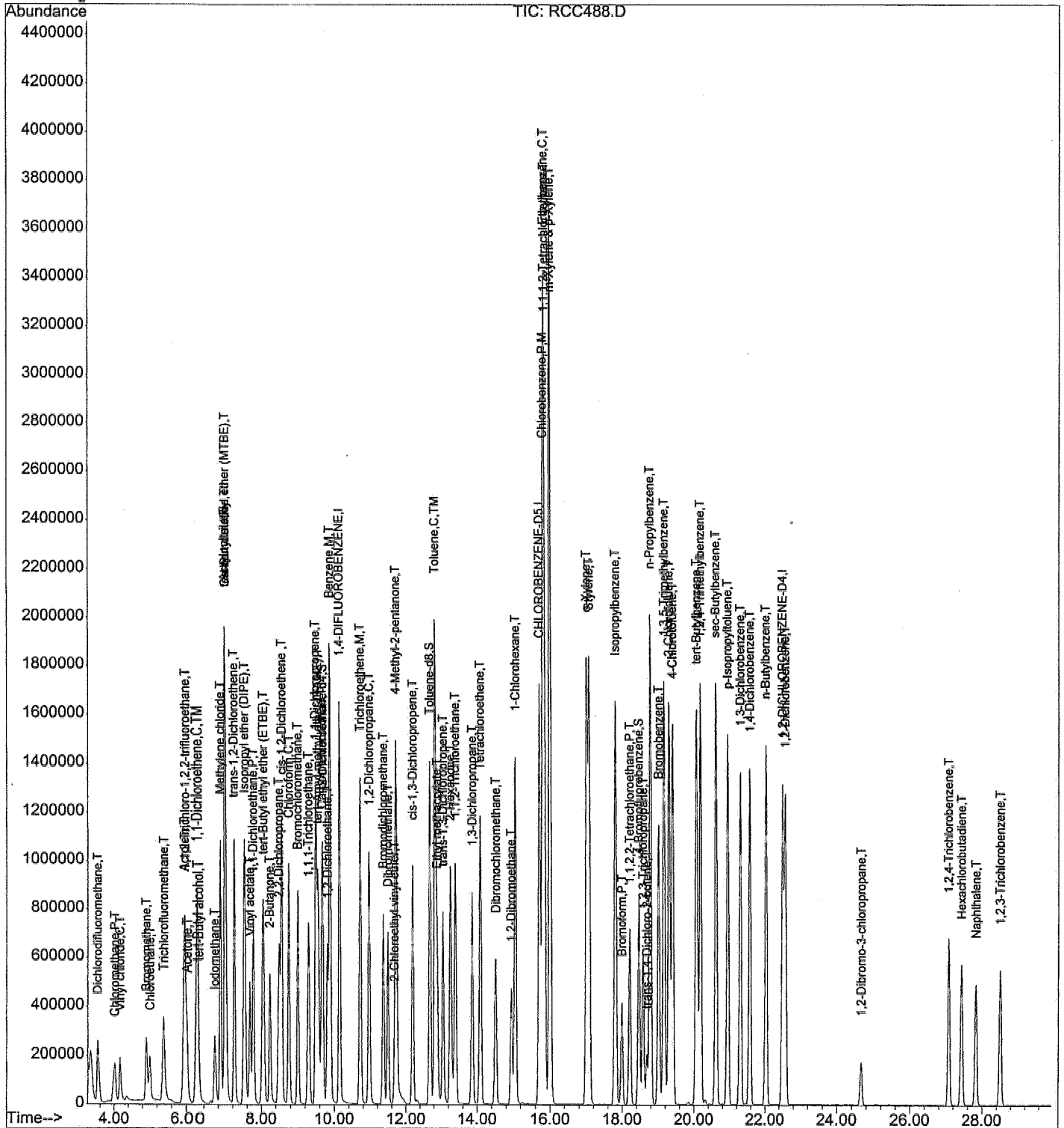
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC488.D
Acq On : 23 Mar 2006 4:23 pm
Sample : VO67C235
Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006

Vial: 6
Operator: CGM
Inst : TO67
Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\06C23\RCC489.D Vial: 7
 Acq On : 23 Mar 2006 4:58 pm Operator: CGM
 Sample : VO67C236 Inst : TO67
 Misc : 80ppb 8260/320ppb Ket-AA/400ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:16:05 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2586517	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.71	117	2307183	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	852997	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.69	65	935029	83.51	ug/l	0.01
Spiked Amount	50.000		Recovery	=	167.02%	
49) Toluene-d8	12.68	98	4179003	81.67	ug/l	0.01
Spiked Amount	50.000		Recovery	=	163.34%	
70) 4-Bromofluorobenzene	18.46	95	1499835	72.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	144.76%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.54	85	1057412	83.10	ug/l	99
3) Chloromethane	4.03	50	898672	87.48	ug/l	98
4) Vinyl chloride	4.16	62	488645	48.65	ug/l	100
5) Bromomethane	4.91	94	666759	56.31	ug/l	100
6) Chloroethane	5.01	64	491739	81.76	ug/l	100
7) Trichlorofluoromethane	5.38	101	1060882	82.41	ug/l	100
9) Acrolein	5.95	56	515388	337.83	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	716685	72.47	ug/l	100
11) Acetone	6.01	43	920429	305.00	ug/l	99
12) 1,1-Dichloroethene	6.23	61	1511026	76.47	ug/l	100
13) tert-Butyl alcohol	6.26	59	398232	412.45	ug/l	99
16) Iodomethane	6.71	142	1289789	175.88	ug/l	100
17) Methylene chloride	6.86	49	1620190	51.51	ug/l	100
18) Carbon disulfide	6.99	76	3731058	74.68	ug/l	100
19) Acrylonitrile	6.98	53	1241273	308.75	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	1967805	76.10	ug/l	100
21) trans-1,2-Dichloroethene	7.25	61	1568636	78.66	ug/l	99
22) Isopropyl ether (DIPE)	7.53	45	3565757	79.48	ug/l	99
23) 1,1-Dichloroethane	7.78	63	2010911	78.04	ug/l	100
24) Vinyl acetate	7.68	43	2061932	90.18	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	2615173	79.79	ug/l	100
26) 2-Butanone	8.24	43	1888230	321.91	ug/l	100
27) 2,2-Dichloropropane	8.50	77	1237748	79.74	ug/l	99
28) cis-1,2-Dichloroethene	8.56	61	1635100	71.17	ug/l	91
30) Chloroform	8.75	83	1926225	77.74	ug/l	99
31) Bromochloromethane	9.00	49	1087467	78.65	ug/l	98
32) 1,1,1-Trichloroethane	9.30	97	1368068	77.47	ug/l	99
34) tert-Amyl methyl ether (TA	9.56	73	2758879	80.12	ug/l	99
37) 1,1-Dichloropropene	9.50	77	513159	76.24	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RCC489.D VO67C23.M Fri Mar 24 11:25:15 2006

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 3/24/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC489.D
 Acq On : 23 Mar 2006 4:58 pm
 Sample : VO67C236
 Misc : 80ppb 8260/320ppb Ket-AA/400ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:16 2006

Vial: 7
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:16:05 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	1192132	76.94	ug/l	100
39) 1,2-Dichloroethane	9.81	62	1149328	79.03	ug/l	100
40) Benzene	9.88	78	4852148	74.42	ug/l	100
41) Trichloroethene	10.72	130	1343521	75.98	ug/l	99
43) 1,2-Dichloropropane	10.97	63	1365669	79.24	ug/l	99
44) Bromodichloromethane	11.36	83	1492285	81.67	ug/l	100
45) Dibromomethane	11.49	93	823749	79.45	ug/l	99
46) 2-Chloroethyl vinyl ether	11.69	63	223393	97.77	ug/l	98
47) 4-Methyl-2-pentanone	11.73	43	4361004	333.97	ug/l	100
48) cis-1,3-Dichloropropene	12.19	75	1787259	84.92	ug/l	99
50) Toluene	12.83	91	4747318	76.49	ug/l	100
51) Ethyl methacrylate	12.88	69	1267980	95.94	ug/l	100
52) trans-1,3-Dichloropropene	13.06	75	1308291	87.58	ug/l	99
53) 1,1,2-Trichloroethane	13.40	97	1008268	78.44	ug/l	100
54) 2-Hexanone	13.25	43	2805986	315.03	ug/l	99
55) 1,3-Dichloropropane	13.86	76	1683332	77.36	ug/l	100
56) Tetrachloroethene	14.10	164	919559	75.26	ug/l	100
57) Dibromochloromethane	14.52	129	1168509	85.74	ug/l	100
58) 1,2-Dibromoethane	14.95	107	1145462	82.31	ug/l	100
59) 1-Chlorohexane	15.05	91	1926507	85.60	ug/l	99
60) Chlorobenzene	15.80	112	3278335	76.83	ug/l	99
61) 1,1,1,2-Tetrachloroethane	15.84	131	1045672	79.90	ug/l	99
62) Ethylbenzene	15.84	91	5257415	78.99	ug/l	100
63) m-Xylene & p-Xylene	16.00	91	7892343	160.47	ug/l	100
64) o-Xylene	17.02	91	4055233	81.27	ug/l	100
65) Styrene	17.08	104	3435676	88.64	ug/l	100
67) Bromoform	17.99	173	680695	78.65	ug/l	99
68) Isopropylbenzene	17.81	105	4610807	73.54	ug/l	100
69) 1,1,2,2-Tetrachloroethane	18.21	83	1534380	71.43	ug/l	100
71) 1,2,3-Trichloropropane	18.58	61	258493	71.82	ug/l	100
72) trans-1,4-Dichloro-2-buten	18.69	53	144942	97.95	ug/l	99
73) n-Propylbenzene	18.77	91	6480575	79.83	ug/l	100
74) Bromobenzene	19.01	156	1184516	72.09	ug/l	99
75) 2-Chlorotoluene	19.31	91	3810518	71.15	ug/l	100
76) 1,3,5-Trimethylbenzene	19.16	105	3925674	78.85	ug/l	100
77) 4-Chlorotoluene	19.40	91	3356221	75.82	ug/l	100
78) tert-Butylbenzene	20.07	119	3404539	77.94	ug/l	99
79) 1,2,4-Trimethylbenzene	20.18	105	3813626	81.11	ug/l	99
80) sec-Butylbenzene	20.62	105	5638337	85.24	ug/l	99
81) p-Isopropyltoluene	20.95	119	3805169	92.02	ug/l	100
82) 1,3-Dichlorobenzene	21.31	146	2203869	74.44	ug/l	100

(#) = qualifier out of range (m) = manual integration
 RCC489.D VO67C23.M Fri Mar 24 11:25:15 2006

ca
 3/24/06

Data File : D:\HPCHEM\1\DATA\06C23\RCC489.D

Vial: 7

Acq On : 23 Mar 2006 4:58 pm

Operator: CGM

Sample : VO67C236

Inst : TO67

Misc : 80ppb 8260/320ppb Ket-AA/400ppb TBA

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 24 11:16 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Fri Mar 24 11:16:05 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.58	146	2193134	75.96	ug/l	99
84) n-Butylbenzene	22.02	91	3716828	107.51	ug/l	100
85) 1,2-Dichlorobenzene	22.57	146	1981178	74.02	ug/l	99
86) 1,2-Dibromo-3-chloropropan	24.66	157	191237	95.85	ug/l	99
87) 1,2,4-Trichlorobenzene	27.09	180	831202	98.24	ug/l	99
88) Hexachlorobutadiene	27.43	225	426421	96.36	ug/l	100
89) Naphthalene	27.83	128	1734615	100.88	ug/l	100
90) 1,2,3-Trichlorobenzene	28.52	180	676337	97.23	ug/l	100

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

RCC489.D VO67C23.M Fri Mar 24 11:25:16 2006

Page 3

2065

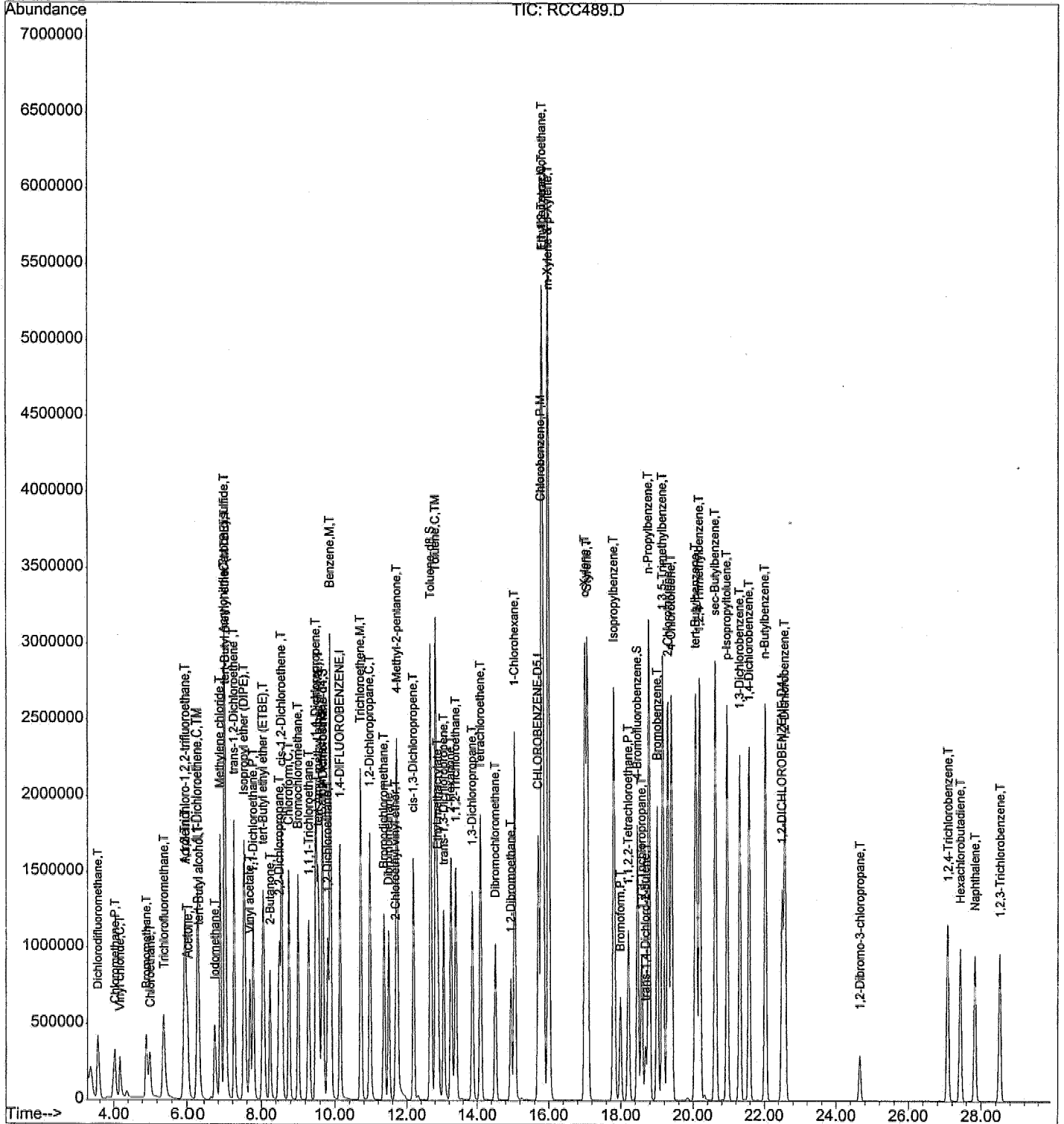
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC489.D
Acq On : 23 Mar 2006 4:58 pm
Sample : VO67C236
Misc : 80ppb 8260/320ppb Ket-AA/400ppb TBA
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006

Vial: 7
Operator: CGM
Inst : TO67
Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



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3/28/06

Data File : D:\HPCHEM\1\DATA\06C23\RCC490.D

Vial: 8

Acq On : 23 Mar 2006 5:34 pm

Operator: CGM

Sample : VO67C237

Inst : TO67

Misc : 100ppb 8260/400ppb Ket-AA/500ppb TBA

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 24 11:16 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Fri Mar 24 11:16:28 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2624273	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.72	117	2389621	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	901820	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.69	65	1193962	104.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	208.68%	
49) Toluene-d8	12.68	98	5419429	101.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	203.80%	
70) 4-Bromofluorobenzene	18.46	95	1926063	89.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	178.66%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.54	85	1339175	103.06	ug/l	99
3) Chloromethane	4.03	50	1156430	109.25	ug/l	99
4) Vinyl chloride	4.16	62	596321	62.60	ug/l	99
5) Bromomethane	4.91	94	892482	78.15	ug/l	100
6) Chloroethane	5.00	64	602787	98.42	ug/l	99
7) Trichlorofluoromethane	5.38	101	1349018	102.77	ug/l	99
9) Acrolein	5.95	56	685455	438.76	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	932355	94.40	ug/l	99
11) Acetone	6.01	43	1148249	377.97	ug/l	99
12) 1,1-Dichloroethene	6.23	61	1867373	93.83	ug/l	99
13) tert-Butyl alcohol	6.26	59	495049	502.74	ug/l	99
16) Iodomethane	6.71	142	1673769	187.50	ug/l	100
17) Methylene chloride	6.86	49	2018691	67.25	ug/l	99
18) Carbon disulfide	6.99	76	4797121	95.70	ug/l	100
19) Acrylonitrile	6.98	53	1577567	389.04	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	2567438	98.66	ug/l	100
21) trans-1,2-Dichloroethene	7.24	61	1964983	97.38	ug/l	99
22) Isopropyl ether (DIPE)	7.53	45	4528512	99.60	ug/l	100
23) 1,1-Dichloroethane	7.78	63	2522765	96.89	ug/l	100
24) Vinyl acetate	7.68	43	2645198	111.66	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	3369153	101.36	ug/l	99
26) 2-Butanone	8.24	43	2387057	400.69	ug/l	100
27) 2,2-Dichloropropane	8.50	77	1576466	100.15	ug/l	99
28) cis-1,2-Dichloroethene	8.55	61	2321385	101.45	ug/l	100
30) Chloroform	8.76	83	2420304	96.73	ug/l	99
31) Bromochloromethane	9.00	49	1384112	98.95	ug/l	97
32) 1,1,1-Trichloroethane	9.30	97	1717808	96.38	ug/l	99
34) tert-Amyl methyl ether (TA	9.55	73	3491632	99.92	ug/l	99
37) 1,1-Dichloropropene	9.49	77	654487	94.62	ug/l	99

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

RCC490.D VO67C23.M Fri Mar 24 11:25:27 2006

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2/22/06

Data File : D:\HPCHEM\1\DATA\06C23\RCC490.D
 Acq On : 23 Mar 2006 5:34 pm
 Sample : VO67C237
 Misc : 100ppb 8260/400ppb Ket-AA/500ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:16 2006

Vial: 8
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:16:28 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	1548202	97.09	ug/l	100
39) 1,2-Dichloroethane	9.81	62	1454690	96.77	ug/l	100
40) Benzene	9.88	78	6103434	91.45	ug/l	100
41) Trichloroethene	10.71	130	1722689	94.85	ug/l	99
43) 1,2-Dichloropropane	10.97	63	1737495	97.49	ug/l	99
44) Bromodichloromethane	11.36	83	1909455	100.55	ug/l	100
45) Dibromomethane	11.49	93	1045142	97.44	ug/l	98
46) 2-Chloroethyl vinyl ether	11.68	63	288025	117.37	ug/l	99
47) 4-Methyl-2-pentanone	11.73	43	5576236	409.32	ug/l	99
48) cis-1,3-Dichloropropene	12.19	75	2284254	103.72	ug/l	99
50) Toluene	12.83	91	6056908	94.92	ug/l	100
51) Ethyl methacrylate	12.89	69	1650453	116.70	ug/l	99
52) trans-1,3-Dichloropropene	13.05	75	1691601	107.63	ug/l	99
53) 1,1,2-Trichloroethane	13.40	97	1296560	97.70	ug/l	100
54) 2-Hexanone	13.25	43	3670467	398.90	ug/l	100
55) 1,3-Dichloropropane	13.86	76	2224335	99.24	ug/l	100
56) Tetrachloroethene	14.10	164	1172623	93.58	ug/l	100
57) Dibromochloromethane	14.51	129	1512511	105.89	ug/l	100
58) 1,2-Dibromoethane	14.94	107	1468771	101.41	ug/l	100
59) 1-Chlorohexane	15.05	91	2466797	104.60	ug/l	98
60) Chlorobenzene	15.79	112	4222515	96.18	ug/l	98
61) 1,1,1,2-Tetrachloroethane	15.84	131	1335305	98.53	ug/l	99
62) Ethylbenzene	15.84	91	6607443	96.05	ug/l	100
63) m-Xylene & p-Xylene	16.00	91	10031899	196.84	ug/l	99
64) o-Xylene	17.02	91	5263456	101.58	ug/l	100
65) Styrene	17.07	104	4383089	107.25	ug/l	100
67) Bromoform	17.98	173	886072	97.11	ug/l	99
68) Isopropylbenzene	17.80	105	5983672	91.50	ug/l	100
69) 1,1,2,2-Tetrachloroethane	18.21	83	1983412	88.93	ug/l	100
71) 1,2,3-Trichloropropane	18.58	61	330624	88.40	ug/l	98
72) trans-1,4-Dichloro-2-buten	18.68	53	188258	116.00	ug/l	98
73) n-Propylbenzene	18.79	91	8293143	96.67	ug/l	100
74) Bromobenzene	19.01	156	1512723	88.54	ug/l	99
75) 2-Chlorotoluene	19.31	91	4797456	86.32	ug/l	100
76) 1,3,5-Trimethylbenzene	19.16	105	4980040	94.84	ug/l	100
77) 4-Chlorotoluene	19.40	91	4389813	94.63	ug/l	100
78) tert-Butylbenzene	20.07	119	4412464	95.96	ug/l	99
79) 1,2,4-Trimethylbenzene	20.19	105	4934216	99.04	ug/l	99
80) sec-Butylbenzene	20.62	105	7225452	102.20	ug/l	100
81) p-Isopropyltoluene	20.95	119	4989260	111.33	ug/l	100
82) 1,3-Dichlorobenzene	21.30	146	2918891	94.34	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RCC490.D VO67C23.M Fri Mar 24 11:25:28 2006

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 3/24/06

Data File : D:\HPCHEM\1\DATA\06C23\RCC490.D

Vial: 8

Acq On : 23 Mar 2006 5:34 pm

Operator: CGM

Sample : VO67C237

Inst : TO67

Misc : 100ppb 8260/400ppb Ket-AA/500ppb TBA

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 24 11:16 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Fri Mar 24 11:16:28 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.57	146	2864732	94.65	ug/l	100
84) n-Butylbenzene	22.03	91	4855335	125.64	ug/l	100
85) 1,2-Dichlorobenzene	22.57	146	2589026	92.65	ug/l	99
86) 1,2-Dibromo-3-chloropropan	24.66	157	251295	115.33	ug/l	98
87) 1,2,4-Trichlorobenzene	27.08	180	1099424	118.41	ug/l	99
88) Hexachlorobutadiene	27.43	225	568355	117.47	ug/l	100
89) Naphthalene	27.83	128	2354236	124.11	ug/l	100
90) 1,2,3-Trichlorobenzene	28.51	180	902911	118.53	ug/l	100

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

RCC490.D VO67C23.M

Fri Mar 24 11:25:28 2006

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3/24/06

Page 3

2069

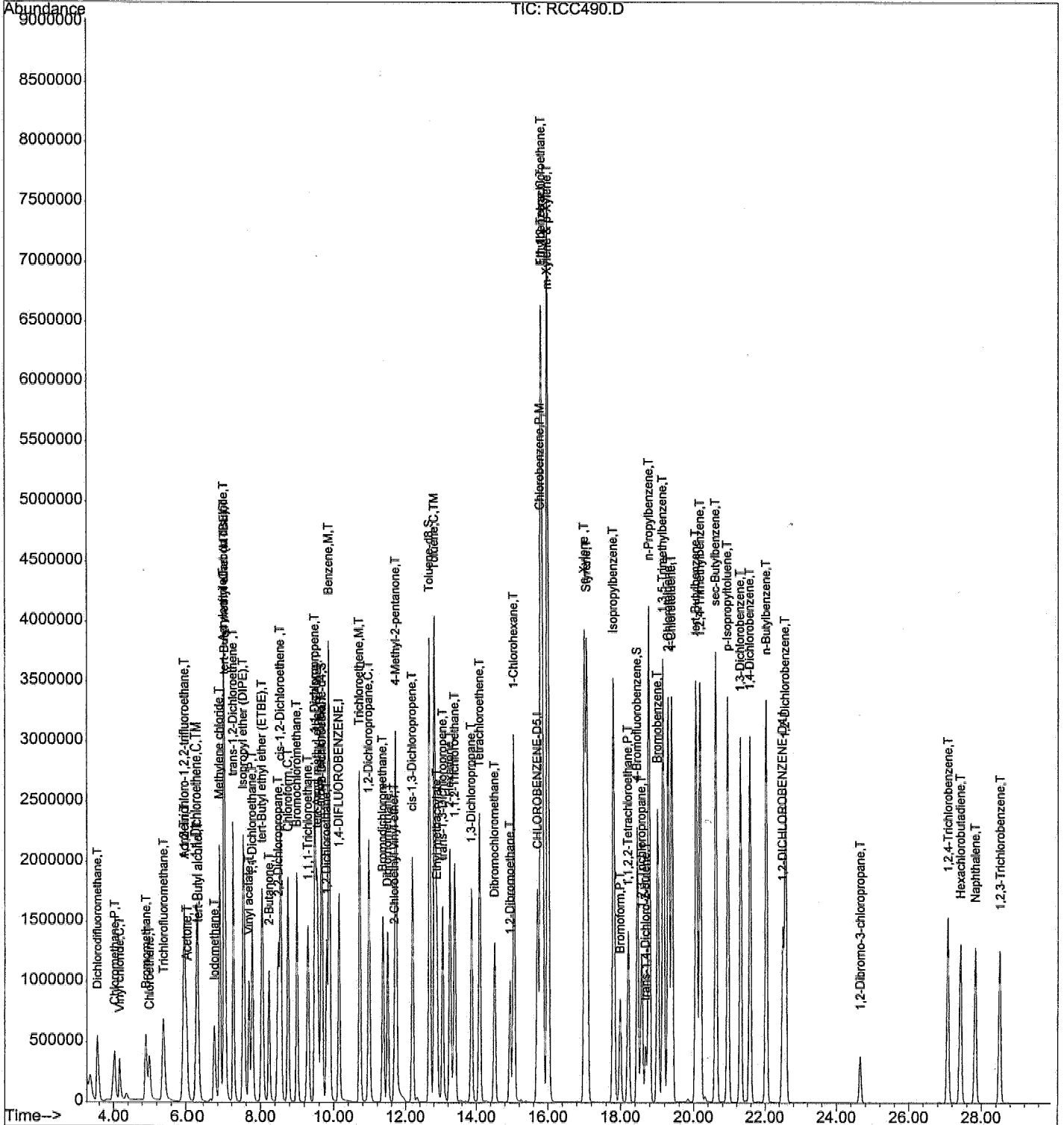
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC490.D
Acq On : 23 Mar 2006 5:34 pm
Sample : VO67C237
Misc : 100ppb 8260/400ppb Ket-AA/500ppb TBA
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:16 2006

Vial: 8
Operator: CGM
Inst : TO67
Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



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Data File : D:\HPCHEM\1\DATA\06C23\RCC491.D Vial: 9
 Acq On : 23 Mar 2006 6:09 pm Operator: CGM
 Sample : VO67C238 Inst : TO67
 Misc : 200ppb 8260/800ppb Ket-AA/1000ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:16 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:16:44 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2655683	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2446837	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	939047	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.69	65	2308547	198.13	ug/l	0.01
Spiked Amount	50.000		Recovery	=	396.26%	
49) Toluene-d8	12.67	98	10516920	192.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	385.22%	
70) 4-Bromofluorobenzene	18.46	95	3793959	171.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	343.22%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.54	85	2598439	196.75	ug/l	100
3) Chloromethane	4.02	50	2330097	214.69	ug/l	99
4) Vinyl chloride	4.17	62	1007715	110.44	ug/l	100
5) Bromomethane	4.90	94	1703068	152.12	ug/l	99
6) Chloroethane	5.00	64	1209609	195.61	ug/l	99
7) Trichlorofluoromethane	5.39	101	2648427	198.59	ug/l	99
9) Acrolein	5.94	56	1330487	830.09	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	1977596	199.46	ug/l	100
11) Acetone	6.01	43	2295073	752.45	ug/l	100
12) 1,1-Dichloroethene	6.24	61	4034938	202.13	ug/l	99
13) tert-Butyl alcohol	6.27	59	1137072	1140.19	ug/l	97
16) Iodomethane	6.70	142	3823452	376.23	ug/l	99
17) Methylene chloride	6.86	49	4114678	142.09	ug/l	98
18) Carbon disulfide	7.00	76	10179510	201.92	ug/l	100
19) Acrylonitrile	6.98	53	3072461	751.67	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	5476010	208.34	ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	4193797	206.16	ug/l	99
22) Isopropyl ether (DIPE)	7.53	45	9646682	209.78	ug/l	100
23) 1,1-Dichloroethane	7.77	63	5174614	197.26	ug/l	100
24) Vinyl acetate	7.68	43	5622411	230.68	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	7074657	209.92	ug/l	99
26) 2-Butanone	8.23	43	4892331	811.32	ug/l	100
27) 2,2-Dichloropropane	8.50	77	3363957	211.14	ug/l	98
28) cis-1,2-Dichloroethene	8.56	61	4845717	208.83	ug/l	98
30) Chloroform	8.75	83	5209243	206.70	ug/l	99
31) Bromochloromethane	9.01	49	2842469	201.10	ug/l	94
32) 1,1,1-Trichloroethane	9.29	97	3723078	207.50	ug/l	98
34) tert-Amyl methyl ether (TA	9.56	73	7569783	214.08	ug/l	98
37) 1,1-Dichloropropene	9.48	77	1374567	195.59	ug/l	98

(#) = qualifier out of range (m) = manual integration
 RCC491.D VO67C23.M Fri Mar 24 11:25:41 2006

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 3/24/06

Data File : D:\HPCHEM\1\DATA\06C23\RCC491.D
 Acq On : 23 Mar 2006 6:09 pm
 Sample : VO67C238
 Misc : 200ppb 8260/800ppb Ket-AA/1000ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:16 2006

Vial: 9
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:16:44 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	3337343	205.25	ug/l	100
39) 1,2-Dichloroethane	9.81	62	3097600	202.17	ug/l	100
40) Benzene	9.89	78	13204886	195.61	ug/l	99
41) Trichloroethene	10.72	130	3700727	200.48	ug/l	98
43) 1,2-Dichloropropane	10.97	63	3624093	199.30	ug/l	98
44) Bromodichloromethane	11.36	83	4123300	211.88	ug/l	100
45) Dibromomethane	11.49	93	2235595	204.30	ug/l	97
46) 2-Chloroethyl vinyl ether	11.67	63	683764	265.52	ug/l	99
47) 4-Methyl-2-pentanone	11.72	43	11281479	806.07	ug/l	99
48) cis-1,3-Dichloropropene	12.19	75	4951399	218.41	ug/l	99
50) Toluene	12.82	91	12844792	198.02	ug/l	99
51) Ethyl methacrylate	12.88	69	3540269	238.77	ug/l	98
52) trans-1,3-Dichloropropene	13.04	75	3664129	225.23	ug/l	99
53) 1,1,2-Trichloroethane	13.39	97	2752656	203.25	ug/l	99
54) 2-Hexanone	13.25	43	7495671	795.88	ug/l	100
55) 1,3-Dichloropropane	13.86	76	4683875	204.31	ug/l	100
56) Tetrachloroethene	14.10	164	2568105	202.01	ug/l	99
57) Dibromochloromethane	14.52	129	3326181	225.52	ug/l	100
58) 1,2-Dibromoethane	14.95	107	3098567	208.51	ug/l	100
59) 1-Chlorohexane	15.05	91	5272147	216.90	ug/l	97
60) Chlorobenzene	15.80	112	8897457	199.01	ug/l	96
61) 1,1,1,2-Tetrachloroethane	15.84	131	2857677	206.36	ug/l	99
62) Ethylbenzene	15.84	91	13914655	198.67	ug/l	100
63) m-Xylene & p-Xylene	15.99	91	21160286	406.40	ug/l	99
64) o-Xylene	17.02	91	11239872	211.37	ug/l	100
65) Styrene	17.08	104	9554304	225.98	ug/l	99
67) Bromoform	17.99	173	1977464	208.99	ug/l	99
68) Isopropylbenzene	17.81	105	13130542	195.20	ug/l	100
69) 1,1,2,2-Tetrachloroethane	18.21	83	4251847	186.02	ug/l	100
71) 1,2,3-Trichloropropane	18.58	61	702333	183.37	ug/l	97
72) trans-1,4-Dichloro-2-buten	18.69	53	430787	249.22	ug/l	95
73) n-Propylbenzene	18.78	91	18087034	203.44	ug/l	100
74) Bromobenzene	19.02	156	3398976	194.24	ug/l	98
75) 2-Chlorotoluene	19.30	91	10438163	183.95	ug/l	99
76) 1,3,5-Trimethylbenzene	19.16	105	10878201	200.43	ug/l	100
77) 4-Chlorotoluene	19.40	91	9462155	197.40	ug/l	100
78) tert-Butylbenzene	20.07	119	9768782	205.20	ug/l	99
79) 1,2,4-Trimethylbenzene	20.18	105	10820970	208.87	ug/l	100
80) sec-Butylbenzene	20.62	105	16275081	220.38	ug/l	100
81) p-Isopropyltoluene	20.95	119	11206212	236.32	ug/l	99
82) 1,3-Dichlorobenzene	21.31	146	6472036	202.53	ug/l	99

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

RCC491.D VO67C23.M Fri Mar 24 11:25:42 2006

20
3/28/06

Page 2

2072

Data File : D:\HPCHEM\1\DATA\06C23\RCC491.D

Vial: 9

Acq On : 23 Mar 2006 6:09 pm

Operator: CGM

Sample : VO67C238

Inst : T067

Misc : 200ppb 8260/800ppb Ket-AA/1000ppb TBA

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 24 11:16 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Fri Mar 24 11:16:44 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.58	146	6469836	206.87	ug/l	99
84) n-Butylbenzene	22.02	91	11368410	272.52	ug/l	99
85) 1,2-Dichlorobenzene	22.58	146	5876306	204.08	ug/l	98
86) 1,2-Dibromo-3-chloropropan	24.66	157	579640	250.00	ug/l	98
87) 1,2,4-Trichlorobenzene	27.07	180	2672374	269.33	ug/l	100
88) Hexachlorobutadiene	27.43	225	1395058	270.17	ug/l	100
89) Naphthalene	27.83	128	5836960	285.67	ug/l	100
90) 1,2,3-Trichlorobenzene	28.50	180	2213951	271.91	ug/l	99

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

RCC491.D VO67C23.M Fri Mar 24 11:25:42 2006

2
3/28/06

Page 3

2073

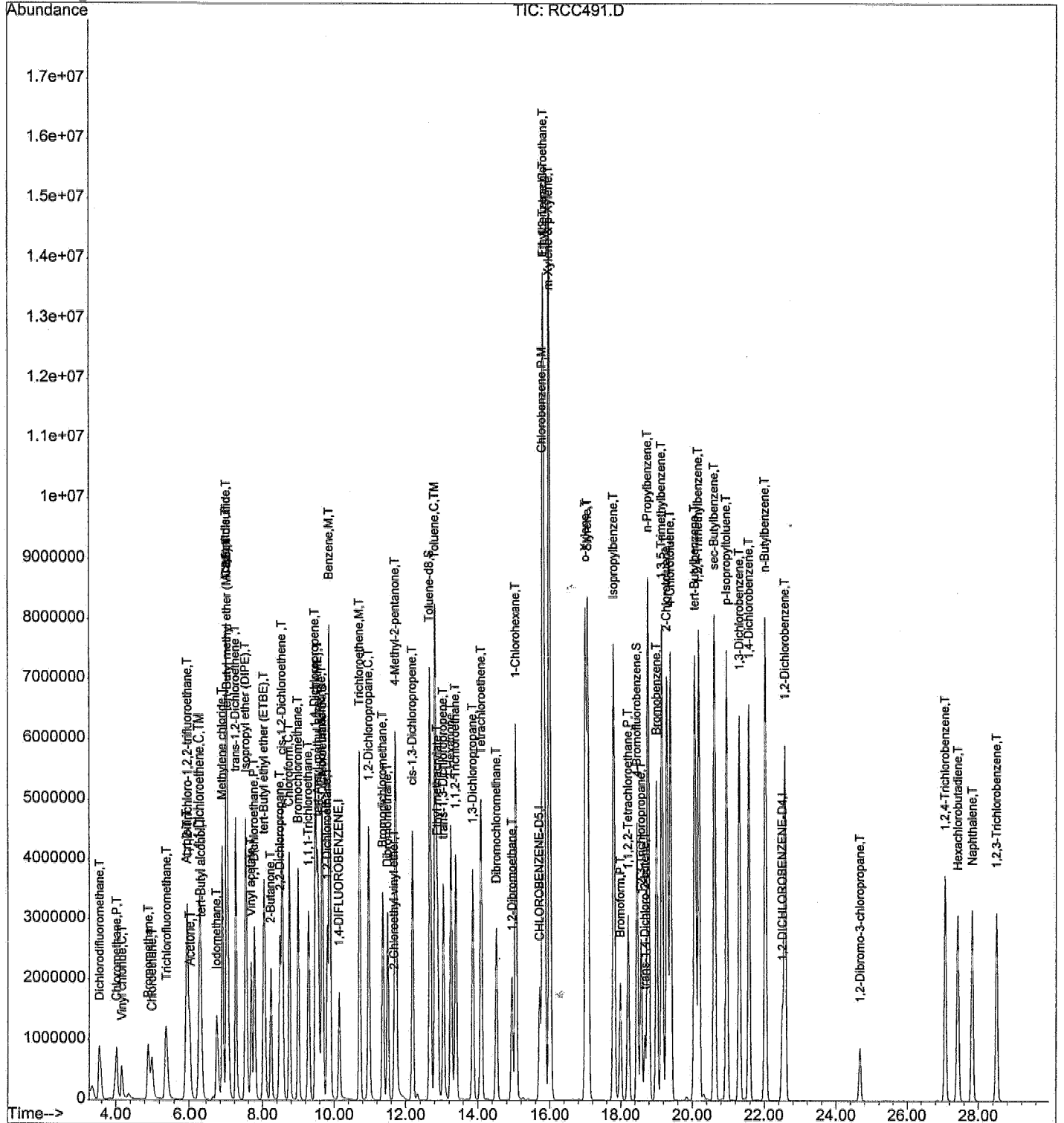
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC491.D
 Acq On : 23 Mar 2006 6:09 pm
 Sample : VO67C238
 Misc : 200ppb 8260/800ppb Ket-AA/1000ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:16 2006

Vial: 9
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:23:02 2006
 Response via : Initial Calibration



2074
 3/24/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC492.D Vial: 10
 Acq On : 23 Mar 2006 6:44 pm Operator: CGM
 Sample : VO67C239 Inst : TO67
 Misc : 300ppb 8260/1200ppb Ket-AA/1500ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:17 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:17:00 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2785705	50.00	ug/l	0.00
36) CHLORO BENZENE-D5	15.71	117	2539648	50.00	ug/l	0.00
66) 1,2-DICHLORO BENZENE-D4	22.50	152	968497	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.68	65	3337797	273.42	ug/l	0.00
Spiked Amount			Recovery	=	546.84%	
49) Toluene-d8	12.67	98	15894483	281.76	ug/l	0.00
Spiked Amount			Recovery	=	563.52%	
70) 4-Bromofluorobenzene	18.46	95	5641683	251.89	ug/l	0.00
Spiked Amount			Recovery	=	503.78%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.53	85	3971114	287.24	ug/l	100
3) Chloromethane	4.02	50	3635164	316.40	ug/l	99
4) Vinyl chloride	4.15	62	1456416	161.18	ug/l	100
5) Bromomethane	4.90	94	2710627	237.93	ug/l	100
6) Chloroethane	5.00	64	1823120	281.83	ug/l	99
7) Trichlorofluoromethane	5.39	101	4060689	290.53	ug/l	100
9) Acrolein	5.94	56	1929711	1142.38	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	3104420	298.59	ug/l	99
11) Acetone	6.03	43	3472996	1093.62	ug/l	99
12) 1,1-Dichloroethene	6.24	61	6056260	288.85	ug/l	98
13) tert-Butyl alcohol	6.28	59	1572995	1477.79	ug/l	96
16) Iodomethane	6.70	142	5829938	492.63	ug/l	99
17) Methylene chloride	6.86	49	6098031	208.29	ug/l	97
18) Carbon disulfide	7.00	76	15248367	288.00	ug/l	99
19) Acrylonitrile	6.98	53	4448587	1045.43	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	7898406	284.99	ug/l	98
21) trans-1,2-Dichloroethene	7.25	61	6210780	289.94	ug/l	97
22) Isopropyl ether (DIPE)	7.53	45	14133270	291.22	ug/l	100
23) 1,1-Dichloroethane	7.79	63	7653220	278.60	ug/l	99
24) Vinyl acetate	7.68	43	7936698	304.60	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	10581522	297.48	ug/l	99
26) 2-Butanone	8.25	43	7238778	1142.39	ug/l	100
27) 2,2-Dichloropropane	8.49	77	5165750	306.96	ug/l	97
28) cis-1,2-Dichloroethene	8.56	61	7181081	293.41	ug/l	97
30) Chloroform	8.75	83	7868200	296.40	ug/l	99
31) Bromochloromethane	8.99	49	4254818	286.77	ug/l	91
32) 1,1,1-Trichloroethane	9.29	97	5819295	307.74	ug/l	98
34) tert-Amyl methyl ether (TA	9.54	73	11169458	298.51	ug/l	97
37) 1,1-Dichloropropene	9.48	77	2100947	288.82	ug/l	97

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

RCC492.D VO67C23.M Fri Mar 24 11:25:52 2006

er
3/24/06

Data File : D:\HPCHEM\1\DATA\06C23\RCC492.D Vial: 10
 Acq On : 23 Mar 2006 6:44 pm Operator: CGM
 Sample : VO67C239 Inst : TO67
 Misc : 300ppb 8260/1200ppb Ket-AA/1500ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:17 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:17:00 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	5184186	306.17	ug/l	100
39) 1,2-Dichloroethane	9.81	62	4612998	289.69	ug/l	100
40) Benzene	9.89	78	19917826	285.05	ug/l	98
41) Trichloroethene	10.72	130	5714154	298.15	ug/l	97
43) 1,2-Dichloropropane	10.97	63	5411714	286.86	ug/l	98
44) Bromodichloromethane	11.36	83	6349867	312.05	ug/l	100
45) Dibromomethane	11.49	93	3309892	290.64	ug/l	96
46) 2-Chloroethyl vinyl ether	11.67	63	1095571	393.77	ug/l	98
47) 4-Methyl-2-pentanone	11.72	43	16841065	1158.23	ug/l	99
48) cis-1,3-Dichloropropene	12.19	75	7551690	317.29	ug/l	98
50) Toluene	12.82	91	19222431	285.87	ug/l	99
51) Ethyl methacrylate	12.88	69	5215993	330.92	ug/l	98
52) trans-1,3-Dichloropropene	13.04	75	5433197	316.77	ug/l	99
53) 1,1,2-Trichloroethane	13.39	97	4095173	290.73	ug/l	99
54) 2-Hexanone	13.25	43	11094914	1135.72	ug/l	100
55) 1,3-Dichloropropane	13.86	76	6936376	290.72	ug/l	99
56) Tetrachloroethene	14.10	164	4029429	305.00	ug/l	98
57) Dibromochloromethane	14.52	129	5081680	326.74	ug/l	100
58) 1,2-Dibromoethane	14.94	107	4684193	302.09	ug/l	100
59) 1-Chlorohexane	15.05	91	8198683	321.58	ug/l	96
60) Chlorobenzene	15.80	112	13280884	286.38	ug/l	94
61) 1,1,1,2-Tetrachloroethane	15.84	131	4285992	297.01	ug/l	97
62) Ethylbenzene	15.84	91	20590836	283.48	ug/l	100
63) m-Xylene & p-Xylene	15.98	91	28312911	522.85	ug/l	83
64) o-Xylene	17.02	91	16887118	303.80	ug/l	100
65) Styrene	17.09	104	14332425	321.39	ug/l	98
67) Bromoform	17.98	173	2997684	305.46	ug/l	99
68) Isopropylbenzene	17.81	105	20228590	292.46	ug/l	99
69) 1,1,2,2-Tetrachloroethane	18.21	83	6280809	268.78	ug/l	100
71) 1,2,3-Trichloropropane	18.58	61	1005603	257.25	ug/l	96
72) trans-1,4-Dichloro-2-buten	18.69	53	656003	356.99	ug/l	94
73) n-Propylbenzene	18.79	91	26377184	287.04	ug/l	98
74) Bromobenzene	19.01	156	5229316	290.79	ug/l	97
75) 2-Chlorotoluene	19.31	91	15762596	272.07	ug/l	99
76) 1,3,5-Trimethylbenzene	19.16	105	16899447	301.82	ug/l	100
77) 4-Chlorotoluene	19.40	91	14532203	294.43	ug/l	99
78) tert-Butylbenzene	20.07	119	15066894	305.87	ug/l	98
79) 1,2,4-Trimethylbenzene	20.19	105	16572706	308.45	ug/l	99
80) sec-Butylbenzene	20.62	105	25129408	325.79	ug/l	99
81) p-Isopropyltoluene	20.95	119	17888800	357.66	ug/l	98
82) 1,3-Dichlorobenzene	21.31	146	10050044	304.45	ug/l	98

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

RCC492.D VO67C23.M Fri Mar 24 11:25:53 2006

er
3/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC492.D Vial: 10
 Acq On : 23 Mar 2006 6:44 pm Operator: CGM
 Sample : VO67C239 Inst : TO67
 Misc : 300ppb 8260/1200ppb Ket-AA/1500ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:17 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:17:00 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.57	146	10041797	309.99	ug/l	98
84) n-Butylbenzene	22.04	91	18090086	402.24	ug/l	99
85) 1,2-Dichlorobenzene	22.57	146	9070912	304.68	ug/l	97
86) 1,2-Dibromo-3-chloropropan	24.66	157	877382	355.79	ug/l	97
87) 1,2,4-Trichlorobenzene	27.09	180	4398915	412.00	ug/l	99
88) Hexachlorobutadiene	27.43	225	2390450	430.00	ug/l	100
89) Naphthalene	27.83	128	9267404	417.42	ug/l	100
90) 1,2,3-Trichlorobenzene	28.52	180	3595785	409.77	ug/l	99

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 3/24/06

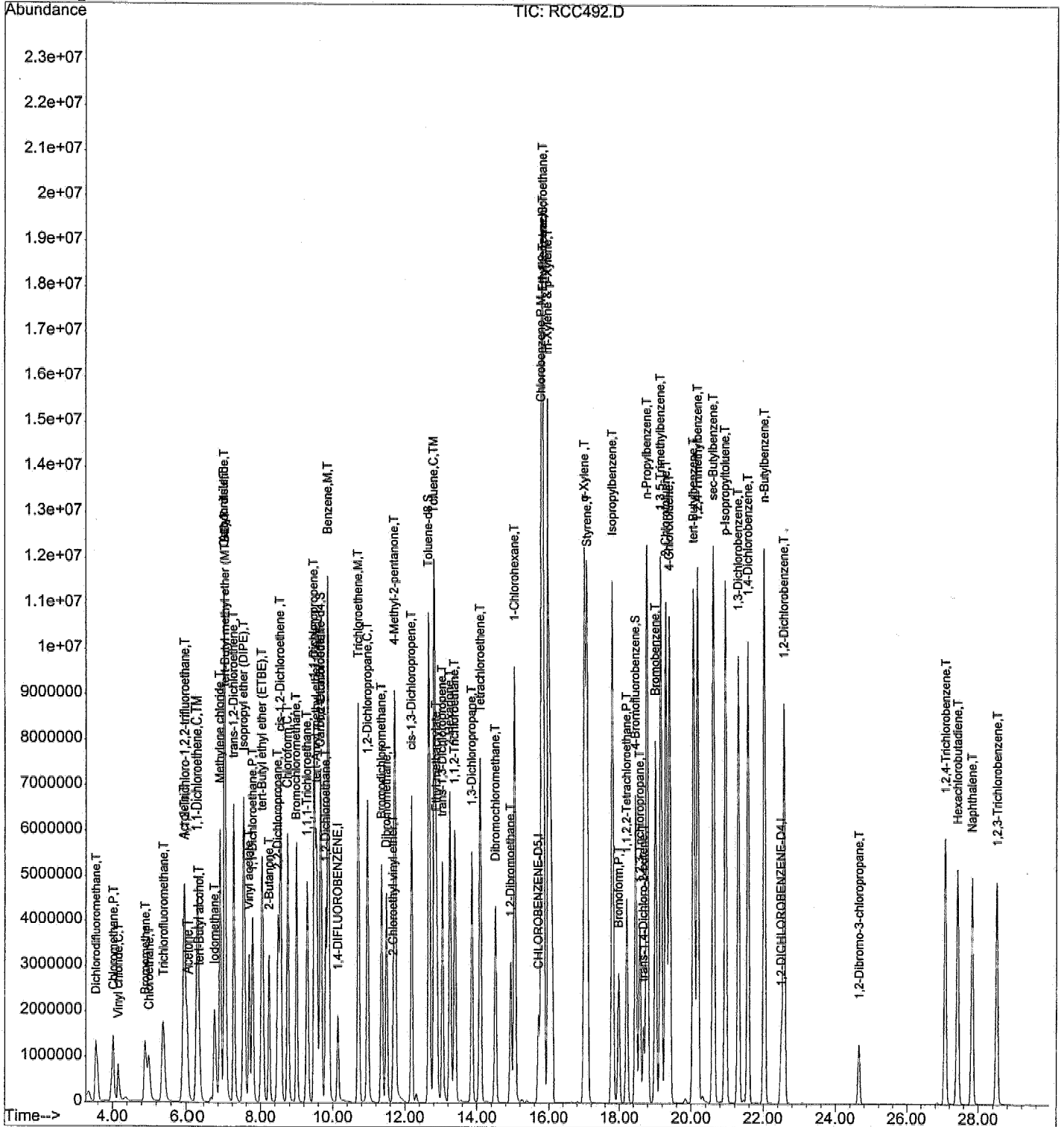
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC492.D
 Acq On : 23 Mar 2006 6:44 pm
 Sample : VO67C239
 Misc : 300ppb 8260/1200ppb Ket-AA/1500ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:17 2006

Vial: 10
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:23:02 2006
 Response via : Initial Calibration



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3/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC495.D
 Acq On : 23 Mar 2006 8:31 pm
 Sample : VO67C2310
 Misc : 2ppb 8260/8ppb Ket-AA/10ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:13 2006

Vial: 13
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:13:45 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2487415	50.00	ug/l	0.01
36) CHLOROBENZENE-D5	15.71	117	2134097	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	645210	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.69	65	22900	2.47	ug/l	0.01
Spiked Amount	50.000		Recovery	=	4.94%	
49) Toluene-d8	12.68	98	118249	3.13	ug/l	0.01
Spiked Amount	50.000		Recovery	=	6.26%	
70) 4-Bromofluorobenzene	18.46	95	44273	3.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	7.74%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.54	85	23099	1.87	ug/l	94
3) Chloromethane	4.03	50	19082	1.88	ug/l	95
4) Vinyl chloride	4.18	62	21144	3.04	ug/l	93
5) Bromomethane	4.89	94	28312	3.61	ug/l	77
6) Chloroethane	5.00	64	11855	2.10	ug/l	95
7) Trichlorofluoromethane	5.37	101	23467	1.91	ug/l	97
9) Acrolein	5.95	56	11119	7.06	ug/l	95
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	18468	1.99	ug/l	100
11) Acetone	6.03	43	25929	8.82	ug/l	92
12) 1,1-Dichloroethene	6.23	61	36362	1.90	ug/l	96
13) tert-Butyl alcohol	6.32	59	6866	6.42	ug/l	# 1
16) Iodomethane	6.70	142	11222	0.83	ug/l	# 77
17) Methylene chloride	6.86	49	101272	4.77	ug/l	97
18) Carbon disulfide	6.99	76	93772	1.89	ug/l	99
19) Acrylonitrile	6.98	53	31562	7.68	ug/l	96
20) tert-Butyl methyl ether (M	7.01	73	47402	1.85	ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	35191	1.74	ug/l	98
22) Isopropyl ether (DIPE)	7.55	45	80204	1.77	ug/l	98
23) 1,1-Dichloroethane	7.77	63	48119	1.88	ug/l	98
24) Vinyl acetate	7.69	43	42851	1.67	ug/l	91
25) tert-Butyl ethyl ether (ET	8.07	59	58581	1.78	ug/l	97
26) 2-Butanone	8.26	43	45789	7.52	ug/l	93
27) 2,2-Dichloropropane	8.48	77	28451	1.79	ug/l	96
28) cis-1,2-Dichloroethene	8.56	61	42039	1.80	ug/l	98
30) Chloroform	8.75	83	46770	1.90	ug/l	97
31) Bromochloromethane	8.99	49	24599	1.77	ug/l	92
32) 1,1,1-Trichloroethane	9.29	97	32796	1.88	ug/l	98
34) tert-Amyl methyl ether (TA	9.56	73	60909	1.76	ug/l	98
37) 1,1-Dichloropropene	9.48	77	12360	1.98	ug/l	96

(#) = qualifier out of range (m) = manual integration
 RCC495.D VO67C23.M Fri Mar 24 11:23:56 2006

W/W/S

Data File : D:\HPCHEM\1\DATA\06C23\RCC495.D
 Acq On : 23 Mar 2006 8:31 pm
 Sample : VO67C2310
 Misc : 2ppb 8260/8ppb Ket-AA/10ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:13 2006

Vial: 13
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:13:45 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	28078	1.93	ug/l	98
39) 1,2-Dichloroethane	9.81	62	26824	1.94	ug/l	93
40) Benzene	9.88	78	124202	2.10	ug/l	97
41) Trichloroethene	10.72	130	32885	2.04	ug/l	98
43) 1,2-Dichloropropane	10.97	63	31741	1.94	ug/l	97
44) Bromodichloromethane	11.36	83	32628	1.85	ug/l	99
45) Dibromomethane	11.49	93	19064	1.90	ug/l	99
46) 2-Chloroethyl vinyl ether	11.67	63	2999	1.20	ug/l	# 45
47) 4-Methyl-2-pentanone	11.75	43	108291	8.34	ug/l	98
48) cis-1,3-Dichloropropene	12.19	75	36706	1.75	ug/l	99
50) Toluene	12.83	91	118508	2.08	ug/l	99
51) Ethyl methacrylate	12.89	69	19407	1.31	ug/l	94
52) trans-1,3-Dichloropropene	13.06	75	24950	1.64	ug/l	98
53) 1,1,2-Trichloroethane	13.40	97	23458	1.93	ug/l	97
54) 2-Hexanone	13.28	43	96930	11.97	ug/l	98
55) 1,3-Dichloropropane	13.86	76	39822	1.94	ug/l	95
56) Tetrachloroethene	14.08	164	22907	2.05	ug/l	98
57) Dibromochloromethane	14.52	129	22552	1.66	ug/l	100
58) 1,2-Dibromoethane	14.95	107	24019	1.75	ug/l	98
59) 1-Chlorohexane	15.05	91	38285	1.70	ug/l	99
60) Chlorobenzene	15.80	112	82116	2.10	ug/l	98
61) 1,1,1,2-Tetrachloroethane	15.84	131	23550	1.91	ug/l	# 65
62) Ethylbenzene	15.84	91	123728	1.96	ug/l	99
63) m-Xylene & p-Xylene	16.01	91	178281	3.83	ug/l	99
64) o-Xylene	17.02	91	89628	1.85	ug/l	99
65) Styrene	17.08	104	64484	1.62	ug/l	97
67) Bromoform	17.99	173	12621	1.88	ug/l	91
68) Isopropylbenzene	17.81	105	94489	2.03	ug/l	99
69) 1,1,2,2-Tetrachloroethane	18.21	83	33506	2.10	ug/l	96
71) 1,2,3-Trichloropropane	18.58	61	5147	1.89	ug/l	88
72) trans-1,4-Dichloro-2-buten	18.69	53	1536	1.10	ug/l	# 1
73) n-Propylbenzene	18.78	91	116300	1.82	ug/l	99
74) Bromobenzene	19.01	156	26524	2.28	ug/l	98
75) 2-Chlorotoluene	19.30	91	85011	2.18	ug/l	99
76) 1,3,5-Trimethylbenzene	19.16	105	71662	1.87	ug/l	100
77) 4-Chlorotoluene	19.40	91	70508	2.20	ug/l	100
78) tert-Butylbenzene	20.07	119	62557	1.84	ug/l	100
79) 1,2,4-Trimethylbenzene	20.18	105	66310	1.76	ug/l	99
80) sec-Butylbenzene	20.62	105	89808	1.62	ug/l	100
81) p-Isopropyltoluene	20.95	119	52304	1.44	ug/l	98
82) 1,3-Dichlorobenzene	21.31	146	47723	2.18	ug/l	100

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

RCC495.D VO67C23.M Fri Mar 24 11:23:56 2006

W
 7/28/06

Page 2

2080

Data File : D:\HPCHEM\1\DATA\06C23\RCC495.D
Acq On : 23 Mar 2006 8:31 pm
Sample : VO67C2310
Misc : 2ppb 8260/8ppb Ket-AA/10ppb TBA
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006

Vial: 13
Operator: CGM
Inst : TO67
Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:13:45 2006
Response via : Initial Calibration
DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.56	146	47350	2.22	ug/l	100
84) n-Butylbenzene	22.02	91	41432	1.24	ug/l	98
85) 1,2-Dichlorobenzene	22.57	146	43721	2.23	ug/l	97
86) 1,2-Dibromo-3-chloropropan	24.66	157	1912	1.02	ug/l #	66
87) 1,2,4-Trichlorobenzene	27.07	180	11971	1.59	ug/l	97
88) Hexachlorobutadiene	27.43	225	5614	1.40	ug/l	85
89) Naphthalene	27.83	128	29512	2.00	ug/l	91
90) 1,2,3-Trichlorobenzene	28.50	180	10573	1.72	ug/l	91

(#) = qualifier out of range (m) = manual integration
RCC495.D VO67C23.M Fri Mar 24 11:23:57 2006

ea
3/28/06

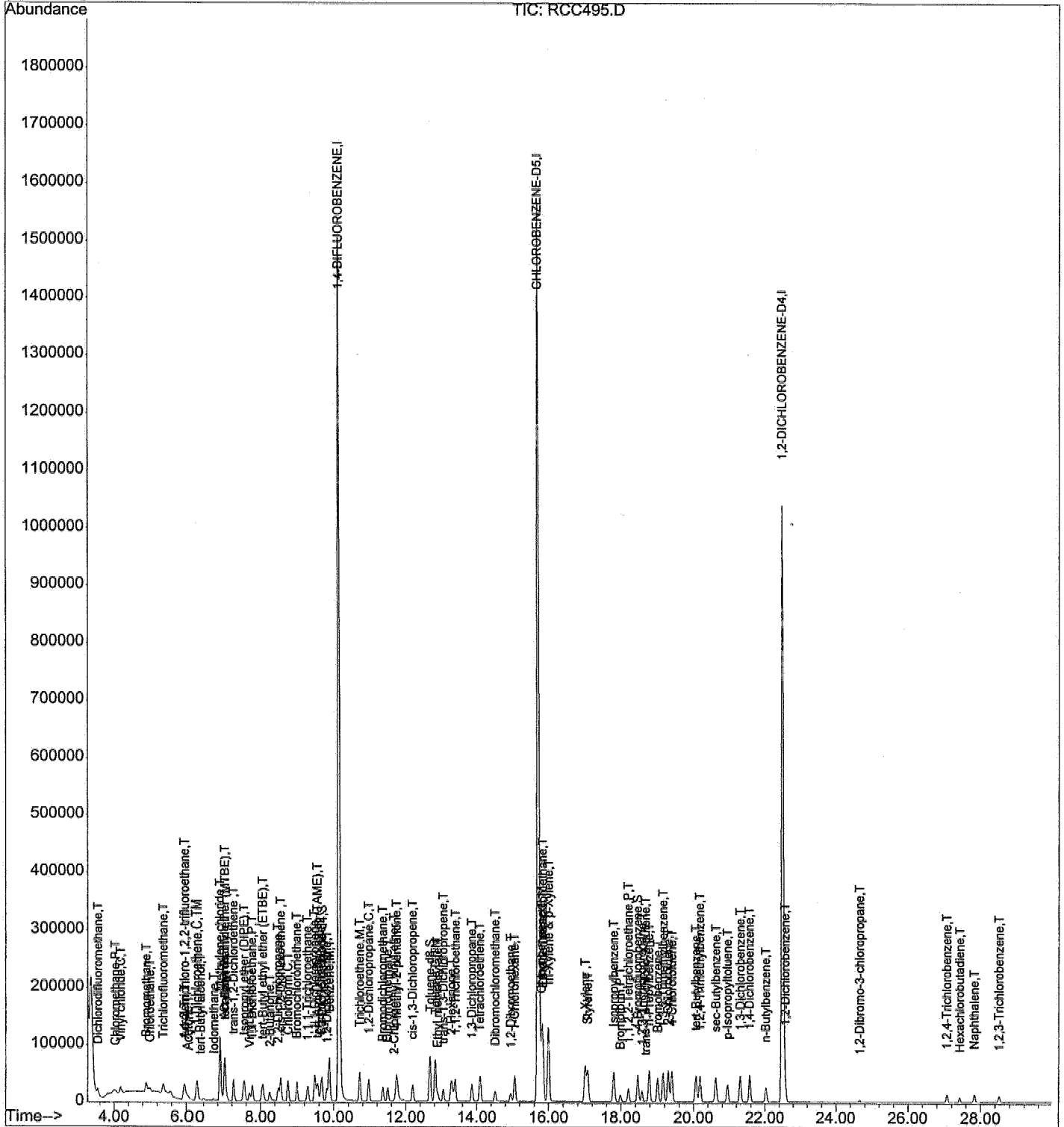
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC495.D
Acq On : 23 Mar 2006 8:31 pm
Sample : VO67C2310
Misc : 2ppb 8260/8ppb Ket-AA/10ppb TBA
MS Integration Params: LSCINT.P
Quant Time: Mar 24 11:13 2006

Vial: 13
Operator: CGM
Inst : TO67
Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml
Last Update : Fri Mar 24 11:23:02 2006
Response via : Initial Calibration



Handwritten signature and date: 3/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC496.D
 Acq On : 23 Mar 2006 9:07 pm
 Sample : VO67C2311
 Misc : 5ppb 8260/20ppb Ket-AA/25ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:14 2006

Vial: 14
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:14:05 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.15	114	2494957	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.70	117	2171215	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	657788	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev (Min)
35) 1,2-Dichloroethane-d4		9.69	65	55394	5.33	ug/l	0.00
Spiked Amount	50.000			Recovery	=	10.66%	
49) Toluene-d8		12.68	98	234551	4.76	ug/l	0.00
Spiked Amount	50.000			Recovery	=	9.52%	
70) 4-Bromofluorobenzene		18.46	95	76813	4.49	ug/l	0.00
Spiked Amount	50.000			Recovery	=	8.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.54	85	63341	5.29	ug/l	98
3) Chloromethane	4.01	50	51002	5.17	ug/l	99
4) Vinyl chloride	4.18	62	54766	6.23	ug/l	99
5) Bromomethane	4.89	94	63101	5.72	ug/l	93
6) Chloroethane	4.99	64	29148	5.02	ug/l	98
7) Trichlorofluoromethane	5.37	101	63573	5.28	ug/l	98
9) Acrolein	5.96	56	27021	18.18	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	46912	5.05	ug/l	100
11) Acetone	6.02	43	52786	17.03	ug/l	100
12) 1,1-Dichloroethene	6.23	61	93180	4.98	ug/l	99
13) tert-Butyl alcohol	6.34	59	19440	22.06	ug/l	84
16) Iodomethane	6.69	142	20751	2.16	ug/l	90
17) Methylene chloride	6.86	49	157286	4.36	ug/l	98
18) Carbon disulfide	6.99	76	234119	4.84	ug/l	99
19) Acrylonitrile	6.99	53	70554	17.46	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	112590	4.55	ug/l	99
21) trans-1,2-Dichloroethene	7.24	61	92916	4.89	ug/l	99
22) Isopropyl ether (DIPE)	7.54	45	203790	4.76	ug/l	100
23) 1,1-Dichloroethane	7.78	63	119318	4.79	ug/l	100
24) Vinyl acetate	7.69	43	101713	4.31	ug/l	96
25) tert-Butyl ethyl ether (ET	8.05	59	146276	4.69	ug/l	100
26) 2-Butanone	8.26	43	100198	16.91	ug/l	97
27) 2,2-Dichloropropane	8.50	77	70802	4.68	ug/l	99
28) cis-1,2-Dichloroethene	8.55	61	99661	4.47	ug/l	92
30) Chloroform	8.75	83	112802	4.69	ug/l	99
31) Bromochloromethane	9.00	49	63372	4.82	ug/l	98
32) 1,1,1-Trichloroethane	9.28	97	84372	4.97	ug/l	98
34) tert-Amyl methyl ether (TA	9.55	73	153336	4.69	ug/l	99
37) 1,1-Dichloropropene	9.49	77	31348	4.96	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RCC496.D VO67C23.M Fri Mar 24 11:24:27 2006

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n/24/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC496.D
 Acq On : 23 Mar 2006 9:07 pm
 Sample : VO67C2311
 Misc : 5ppb 8260/20ppb Ket-AA/25ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:14 2006

Vial: 14
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:14:05 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	71851	4.94	ug/l	100
39) 1,2-Dichloroethane	9.81	62	65823	4.75	ug/l	97
40) Benzene	9.88	78	306772	4.97	ug/l	99
41) Trichloroethene	10.71	130	83228	5.03	ug/l	98
43) 1,2-Dichloropropane	10.97	63	77284	4.71	ug/l	99
44) Bromodichloromethane	11.35	83	81903	4.75	ug/l	99
45) Dibromomethane	11.49	93	44613	4.49	ug/l	97
46) 2-Chloroethyl vinyl ether	11.68	63	9003	4.42	ug/l	85
47) 4-Methyl-2-pentanone	11.74	43	205076	15.20	ug/l	99
48) cis-1,3-Dichloropropene	12.19	75	90817	4.54	ug/l	100
50) Toluene	12.83	91	287276	4.86	ug/l	99
51) Ethyl methacrylate	12.89	69	52565	4.22	ug/l	98
52) trans-1,3-Dichloropropene	13.05	75	62025	4.40	ug/l	99
53) 1,1,2-Trichloroethane	13.38	97	56113	4.61	ug/l	99
54) 2-Hexanone	13.28	43	136194	13.24	ug/l	98
55) 1,3-Dichloropropane	13.86	76	96352	4.68	ug/l	98
56) Tetrachloroethene	14.10	164	56573	4.91	ug/l	99
57) Dibromochloromethane	14.51	129	59388	4.70	ug/l	100
58) 1,2-Dibromoethane	14.94	107	60776	4.64	ug/l	98
59) 1-Chlorohexane	15.05	91	99162	4.68	ug/l	99
60) Chlorobenzene	15.79	112	194504	4.76	ug/l	99
61) 1,1,1,2-Tetrachloroethane	15.84	131	59024	4.81	ug/l	98
62) Ethylbenzene	15.84	91	303209	4.77	ug/l	99
63) m-Xylene & p-Xylene	15.99	91	449349	9.69	ug/l	100
64) o-Xylene	17.02	91	220317	4.64	ug/l	100
65) Styrene	17.07	104	166731	4.55	ug/l	98
67) Bromoform	17.98	173	30526	4.59	ug/l	98
68) Isopropylbenzene	17.80	105	242934	5.08	ug/l	99
69) 1,1,2,2-Tetrachloroethane	18.21	83	79292	4.76	ug/l	99
71) 1,2,3-Trichloropropane	18.58	61	13214	4.90	ug/l	91
72) trans-1,4-Dichloro-2-buten	18.70	53	4492	4.07	ug/l	# 20
73) n-Propylbenzene	18.79	91	303101	4.87	ug/l	100
74) Bromobenzene	19.01	156	62918	4.96	ug/l	98
75) 2-Chlorotoluene	19.29	91	206125	4.96	ug/l	100
76) 1,3,5-Trimethylbenzene	19.16	105	188196	4.97	ug/l	100
77) 4-Chlorotoluene	19.40	91	171432	5.00	ug/l	99
78) tert-Butylbenzene	20.07	119	163979	4.92	ug/l	98
79) 1,2,4-Trimethylbenzene	20.17	105	171818	4.76	ug/l	100
80) sec-Butylbenzene	20.62	105	235999	4.62	ug/l	100
81) p-Isopropyltoluene	20.95	119	142152	4.46	ug/l	99
82) 1,3-Dichlorobenzene	21.30	146	109823	4.71	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RCC496.D VO67C23.M Fri Mar 24 11:24:28 2006

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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC496.D
 Acq On : 23 Mar 2006 9:07 pm
 Sample : VO67C2311
 Misc : 5ppb 8260/20ppb Ket-AA/25ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:14 2006

Vial: 14
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:14:05 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.57	146	106435	4.64	ug/l	99
84) n-Butylbenzene	22.02	91	108254	3.93	ug/l	99
85) 1,2-Dichlorobenzene	22.57	146	98861	4.68	ug/l	92
86) 1,2-Dibromo-3-chloropropan	24.67	157	5977	4.15	ug/l	93
87) 1,2,4-Trichlorobenzene	27.08	180	26653	3.87	ug/l	95
88) Hexachlorobutadiene	27.43	225	15180	4.36	ug/l	98
89) Naphthalene	27.83	128	52224	3.47	ug/l	97
90) 1,2,3-Trichlorobenzene	28.51	180	21969	3.76	ug/l	98

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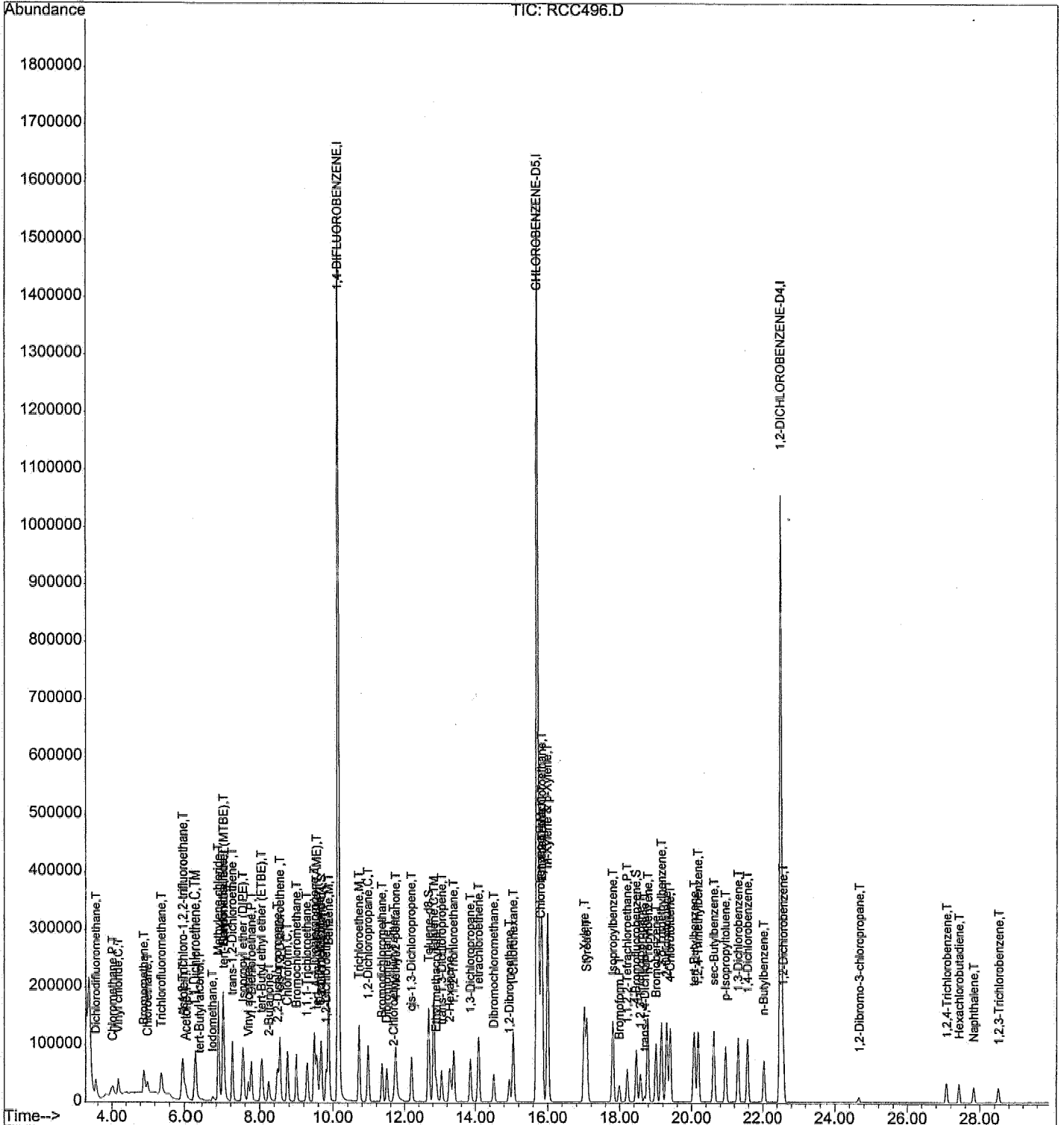
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC496.D
 Acq On : 23 Mar 2006 9:07 pm
 Sample : VO67C2311
 Misc : 5ppb 8260/20ppb Ket-AA/25ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:14 2006

Vial: 14
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:23:02 2006
 Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC497.D
 Acq On : 23 Mar 2006 9:42 pm
 Sample : VO67C2312
 Misc : 10ppb 8260/40ppb Ket-AA/50ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:14 2006

Vial: 15
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:14:21 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2530364	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2313936	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	729584	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.68	65	110176	10.23	ug/l	0.00
Spiked Amount						
						Recovery = 20.46%
49) Toluene-d8	12.67	98	502054	9.72	ug/l	0.00
Spiked Amount						
						Recovery = 19.44%
70) 4-Bromofluorobenzene	18.46	95	167818	9.15	ug/l	0.00
Spiked Amount						
						Recovery = 18.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.54	85	125421	10.13	ug/l	99
3) Chloromethane	4.03	50	96109	9.50	ug/l	96
4) Vinyl chloride	4.18	62	104789	10.87	ug/l	100
5) Bromomethane	4.90	94	117534	10.02	ug/l	95
6) Chloroethane	5.00	64	58920	10.00	ug/l	98
7) Trichlorofluoromethane	5.37	101	127476	10.24	ug/l	100
9) Acrolein	5.95	56	62825	42.97	ug/l	94
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	96752	10.24	ug/l	100
11) Acetone	6.03	43	119323	39.93	ug/l	100
12) 1,1-Dichloroethene	6.24	61	194122	10.24	ug/l	98
13) tert-Butyl alcohol	6.30	59	51647	60.15	ug/l	96
16) Iodomethane	6.70	142	49382	6.25	ug/l	96
17) Methylene chloride	6.86	49	252404	7.21	ug/l	99
18) Carbon disulfide	7.00	76	477775	9.85	ug/l	99
19) Acrylonitrile	6.98	53	163591	41.68	ug/l	96
20) tert-Butyl methyl ether (M	7.00	73	256154	10.52	ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	191557	10.02	ug/l	98
22) Isopropyl ether (DIPE)	7.53	45	433028	10.14	ug/l	100
23) 1,1-Dichloroethane	7.77	63	245169	9.84	ug/l	99
24) Vinyl acetate	7.68	43	202320	8.86	ug/l	98
25) tert-Butyl ethyl ether (ET	8.05	59	323303	10.44	ug/l	99
26) 2-Butanone	8.25	43	242522	42.55	ug/l	99
27) 2,2-Dichloropropane	8.48	77	149172	9.94	ug/l	99
28) cis-1,2-Dichloroethene	8.56	61	223068	10.23	ug/l	99
30) Chloroform	8.75	83	234872	9.83	ug/l	99
31) Bromochloromethane	8.99	49	134690	10.23	ug/l	97
32) 1,1,1-Trichloroethane	9.29	97	167511	9.74	ug/l	99
34) tert-Amyl methyl ether (TA	9.56	73	335719	10.34	ug/l	99
37) 1,1-Dichloropropene	9.48	77	64388	9.58	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RCC497.D VO67C23.M Fri Mar 24 11:24:37 2006

2/28/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC497.D
 Acq On : 23 Mar 2006 9:42 pm
 Sample : VO67C2312
 Misc : 10ppb 8260/40ppb Ket-AA/50ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:14 2006

Vial: 15
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:14:21 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	146494	9.49	ug/l	100
39) 1,2-Dichloroethane	9.81	62	138067	9.50	ug/l	99
40) Benzene	9.87	78	620994	9.46	ug/l	99
41) Trichloroethene	10.72	130	169650	9.60	ug/l	98
43) 1,2-Dichloropropane	10.97	63	164770	9.61	ug/l	99
44) Bromodichloromethane	11.36	83	173795	9.62	ug/l	100
45) Dibromomethane	11.49	93	99520	9.73	ug/l	98
46) 2-Chloroethyl vinyl ether	11.69	63	23257	11.15	ug/l	95
47) 4-Methyl-2-pentanone	11.73	43	505942	38.24	ug/l	100
48) cis-1,3-Dichloropropene	12.19	75	201470	9.75	ug/l	99
50) Toluene	12.82	91	589671	9.44	ug/l	100
51) Ethyl methacrylate	12.89	69	130386	10.36	ug/l	99
52) trans-1,3-Dichloropropene	13.04	75	144313	10.01	ug/l	99
53) 1,1,2-Trichloroethane	13.39	97	125267	9.92	ug/l	99
54) 2-Hexanone	13.27	43	308240	31.70	ug/l	99
55) 1,3-Dichloropropane	13.86	76	211150	9.84	ug/l	100
56) Tetrachloroethene	14.10	164	117307	9.61	ug/l	99
57) Dibromochloromethane	14.52	129	132431	10.04	ug/l	99
58) 1,2-Dibromoethane	14.95	107	134364	9.86	ug/l	100
59) 1-Chlorohexane	15.05	91	212014	9.59	ug/l	99
60) Chlorobenzene	15.80	112	404071	9.44	ug/l	98
61) 1,1,1,2-Tetrachloroethane	15.84	131	124695	9.66	ug/l	99
62) Ethylbenzene	15.84	91	628457	9.43	ug/l	100
63) m-Xylene & p-Xylene	15.99	91	920452	18.82	ug/l	99
64) o-Xylene	17.02	91	474420	9.60	ug/l	99
65) Styrene	17.08	104	365898	9.65	ug/l	99
67) Bromoform	17.99	173	74085	10.33	ug/l	98
68) Isopropylbenzene	17.81	105	520175	9.76	ug/l	100
69) 1,1,2,2-Tetrachloroethane	18.21	83	182786	10.05	ug/l	100
71) 1,2,3-Trichloropropane	18.58	61	31977	10.76	ug/l	97
72) trans-1,4-Dichloro-2-buten	18.69	53	13797	12.03	ug/l	85
73) n-Propylbenzene	18.78	91	672751	9.83	ug/l	100
74) Bromobenzene	19.02	156	136325	9.71	ug/l	99
75) 2-Chlorotoluene	19.30	91	443429	9.65	ug/l	100
76) 1,3,5-Trimethylbenzene	19.16	105	413325	9.87	ug/l	100
77) 4-Chlorotoluene	19.40	91	358899	9.43	ug/l	100
78) tert-Butylbenzene	20.07	119	360123	9.80	ug/l	98
79) 1,2,4-Trimethylbenzene	20.18	105	388274	9.86	ug/l	100
80) sec-Butylbenzene	20.62	105	545564	9.88	ug/l	100
81) p-Isopropyltoluene	20.95	119	335353	9.84	ug/l	100
82) 1,3-Dichlorobenzene	21.31	146	239700	9.45	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RCC497.D VO67C23.M Fri Mar 24 11:24:38 2006

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 3/24/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC497.D
 Acq On : 23 Mar 2006 9:42 pm
 Sample : VO67C2312
 Misc : 10ppb 8260/40ppb Ket-AA/50ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:14 2006

Vial: 15
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:14:21 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.58	146	232271	9.35	ug/l	99
84) n-Butylbenzene	22.02	91	275704	9.71	ug/l	100
85) 1,2-Dichlorobenzene	22.58	146	218776	9.54	ug/l	98
86) 1,2-Dibromo-3-chloropropan	24.66	157	19359	12.84	ug/l	98
87) 1,2,4-Trichlorobenzene	27.07	180	67189	9.51	ug/l	98
88) Hexachlorobutadiene	27.43	225	34405	9.31	ug/l	97
89) Naphthalene	27.83	128	126986	8.48	ug/l	99
90) 1,2,3-Trichlorobenzene	28.50	180	53061	8.93	ug/l	98

ew
 3/28/06

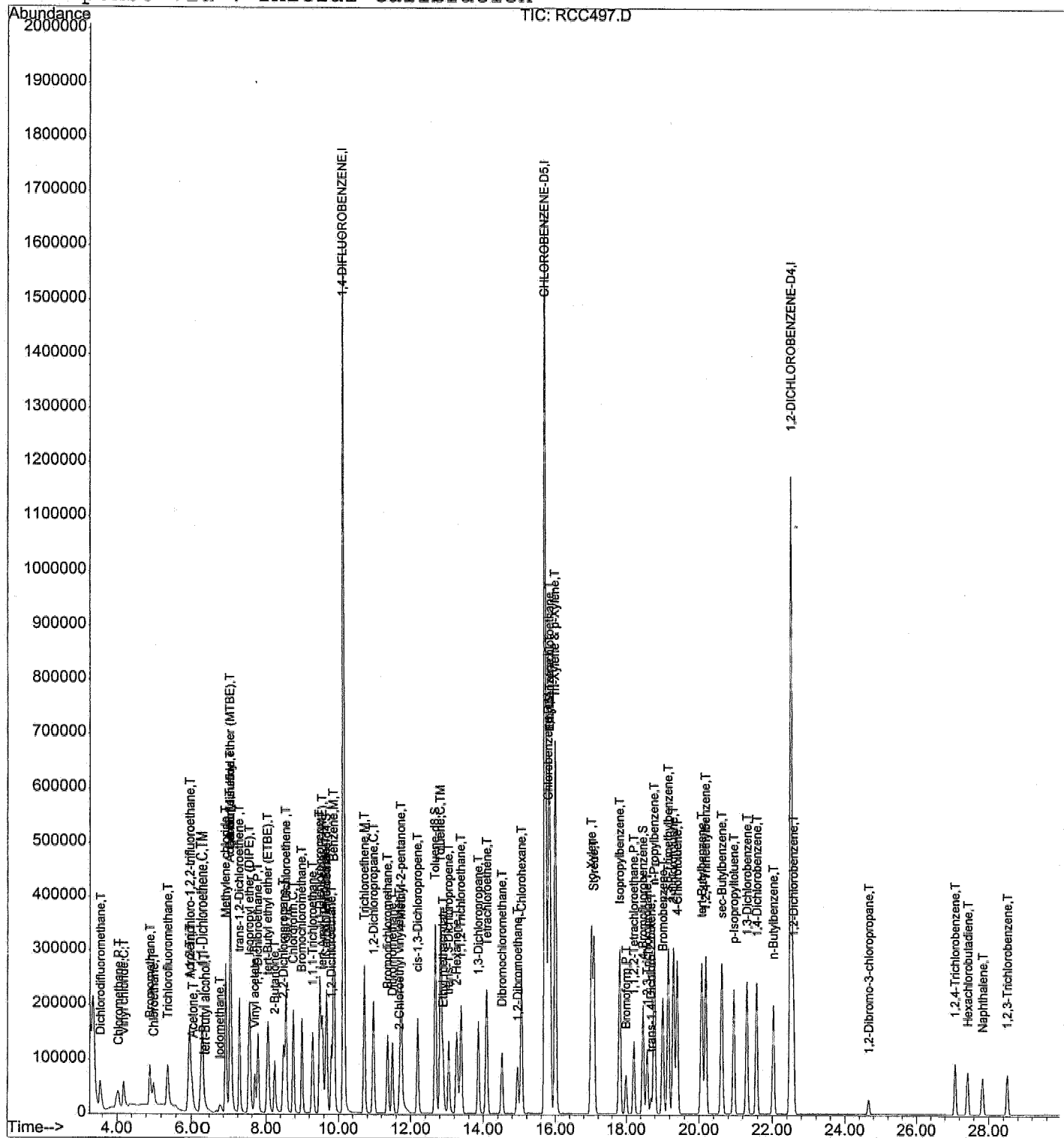
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC497.D
 Acq On : 23 Mar 2006 9:42 pm
 Sample : VO67C2312
 Misc : 10ppb 8260/40ppb Ket-AA/50ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:14 2006

Vial: 15
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:23:02 2006
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC498.D
 Acq On : 23 Mar 2006 10:18 pm
 Sample : VO67C2313
 Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:15 2006

Vial: 16
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:14:37 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2608254	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2334033	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	804493	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.68	65	235752	21.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.22%	
49) Toluene-d8	12.69	98	1036236	20.02	ug/l	0.01
Spiked Amount	50.000		Recovery	=	40.04%	
70) 4-Bromofluorobenzene	18.46	95	371514	18.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.56%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.53	85	258639	20.20	ug/l	100
3) Chloromethane	4.02	50	212039	20.59	ug/l	100
4) Vinyl chloride	4.17	62	200438	19.74	ug/l	99
5) Bromomethane	4.90	94	226218	18.70	ug/l	97
6) Chloroethane	5.00	64	120456	19.83	ug/l	99
7) Trichlorofluoromethane	5.37	101	265588	20.58	ug/l	100
9) Acrolein	5.94	56	124189	80.91	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	213282	21.76	ug/l	99
11) Acetone	6.01	43	232039	75.36	ug/l	100
12) 1,1-Dichloroethene	6.24	61	419784	21.35	ug/l	98
13) tert-Butyl alcohol	6.28	59	114835	123.48	ug/l	92
16) Iodomethane	6.70	142	149303	20.24	ug/l	97
17) Methylene chloride	6.86	49	486861	14.51	ug/l	98
18) Carbon disulfide	7.00	76	1052799	21.14	ug/l	100
19) Acrylonitrile	6.98	53	313506	76.69	ug/l	99
20) tert-Butyl methyl ether (M	7.00	73	573302	22.55	ug/l	98
21) trans-1,2-Dichloroethene	7.25	61	433271	21.97	ug/l	98
22) Isopropyl ether (DIPE)	7.53	45	989525	22.40	ug/l	100
23) 1,1-Dichloroethane	7.77	63	552591	21.61	ug/l	99
24) Vinyl acetate	7.68	43	475663	20.79	ug/l	100
25) tert-Butyl ethyl ether (ET	8.05	59	722681	22.39	ug/l	100
26) 2-Butanone	8.25	43	455860	76.37	ug/l	99
27) 2,2-Dichloropropane	8.49	77	329695	21.35	ug/l	98
28) cis-1,2-Dichloroethene	8.56	61	508764	22.51	ug/l	98
30) Chloroform	8.75	83	537222	21.91	ug/l	99
31) Bromochloromethane	8.99	49	302058	22.13	ug/l	95
32) 1,1,1-Trichloroethane	9.29	97	372176	21.14	ug/l	99
34) tert-Amyl methyl ether (TA	9.54	73	773049	22.91	ug/l	100
37) 1,1-Dichloropropene	9.48	77	144201	21.49	ug/l	99

(#) = qualifier out of range (m) = manual integration
 RCC498.D VO67C23.M Fri Mar 24 11:24:48 2006

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 3/24/06

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\06C23\RCC498.D Vial: 16
 Acq On : 23 Mar 2006 10:18 pm Operator: CGM
 Sample : VO67C2313 Inst : TO67
 Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:15 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:14:37 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	337507	21.95	ug/l	99
39) 1,2-Dichloroethane	9.81	62	313479	21.66	ug/l	99
40) Benzene	9.87	78	1370360	20.98	ug/l	99
41) Trichloroethene	10.72	130	377094	21.37	ug/l	99
43) 1,2-Dichloropropane	10.97	63	373744	21.83	ug/l	98
44) Bromodichloromethane	11.36	83	404039	22.38	ug/l	99
45) Dibromomethane	11.49	93	228833	22.32	ug/l	98
46) 2-Chloroethyl vinyl ether	11.69	63	57997	26.80	ug/l	97
47) 4-Methyl-2-pentanone	11.73	43	1060626	80.36	ug/l	100
48) cis-1,3-Dichloropropene	12.19	75	472782	22.83	ug/l	100
50) Toluene	12.82	91	1309652	21.09	ug/l	100
51) Ethyl methacrylate	12.88	69	312208	24.37	ug/l	100
52) trans-1,3-Dichloropropene	13.04	75	347772	23.91	ug/l	98
53) 1,1,2-Trichloroethane	13.39	97	283379	22.29	ug/l	99
54) 2-Hexanone	13.27	43	628244	67.55	ug/l	99
55) 1,3-Dichloropropane	13.86	76	476670	22.11	ug/l	100
56) Tetrachloroethene	14.09	164	260782	21.39	ug/l	99
57) Dibromochloromethane	14.52	129	313214	23.52	ug/l	100
58) 1,2-Dibromoethane	14.95	107	312423	22.82	ug/l	100
59) 1-Chlorohexane	15.05	91	511024	23.15	ug/l	99
60) Chlorobenzene	15.80	112	909804	21.36	ug/l	99
61) 1,1,1,2-Tetrachloroethane	15.84	131	291194	22.55	ug/l	99
62) Ethylbenzene	15.84	91	1429816	21.57	ug/l	100
63) m-Xylene & p-Xylene	15.99	91	2173260	44.71	ug/l	100
64) o-Xylene	17.02	91	1100572	22.31	ug/l	100
65) Styrene	17.08	104	889052	23.46	ug/l	100
67) Bromoform	17.99	173	178435	22.38	ug/l	99
68) Isopropylbenzene	17.81	105	1239487	21.22	ug/l	100
69) 1,1,2,2-Tetrachloroethane	18.21	83	419293	20.88	ug/l	100
71) 1,2,3-Trichloropropane	18.58	61	72255	21.63	ug/l	96
72) trans-1,4-Dichloro-2-buten	18.69	53	33223	24.99	ug/l	97
73) n-Propylbenzene	18.78	91	1645551	21.90	ug/l	99
74) Bromobenzene	19.02	156	320313	20.84	ug/l	99
75) 2-Chlorotoluene	19.30	91	1033872	20.59	ug/l	100
76) 1,3,5-Trimethylbenzene	19.16	105	1012614	22.00	ug/l	100
77) 4-Chlorotoluene	19.40	91	866249	20.95	ug/l	100
78) tert-Butylbenzene	20.07	119	893962	22.17	ug/l	99
79) 1,2,4-Trimethylbenzene	20.18	105	972259	22.47	ug/l	100
80) sec-Butylbenzene	20.62	105	1383104	22.79	ug/l	100
81) p-Isopropyltoluene	20.95	119	905587	24.19	ug/l	100
82) 1,3-Dichlorobenzene	21.31	146	585610	21.23	ug/l	100

(#) = qualifier out of range (m) = manual integration
 RCC498.D VO67C23.M Fri Mar 24 11:24:49 2006

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 3/28/06

Data File : D:\HPCHEM\1\DATA\06C23\RCC498.D Vial: 16
 Acq On : 23 Mar 2006 10:18 pm Operator: CGM
 Sample : VO67C2313 Inst : TO67
 Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:15 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:14:37 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.58	146	566748	21.03	ug/l	99
84) n-Butylbenzene	22.02	91	775035	24.94	ug/l	100
85) 1,2-Dichlorobenzene	22.58	146	524285	20.97	ug/l	99
86) 1,2-Dibromo-3-chloropropan	24.66	157	45706	25.67	ug/l	99
87) 1,2,4-Trichlorobenzene	27.07	180	182568	23.73	ug/l	100
88) Hexachlorobutadiene	27.43	225	96892	24.19	ug/l	98
89) Naphthalene	27.83	128	350633	22.07	ug/l	100
90) 1,2,3-Trichlorobenzene	28.50	180	146034	22.91	ug/l	100

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3/24/06

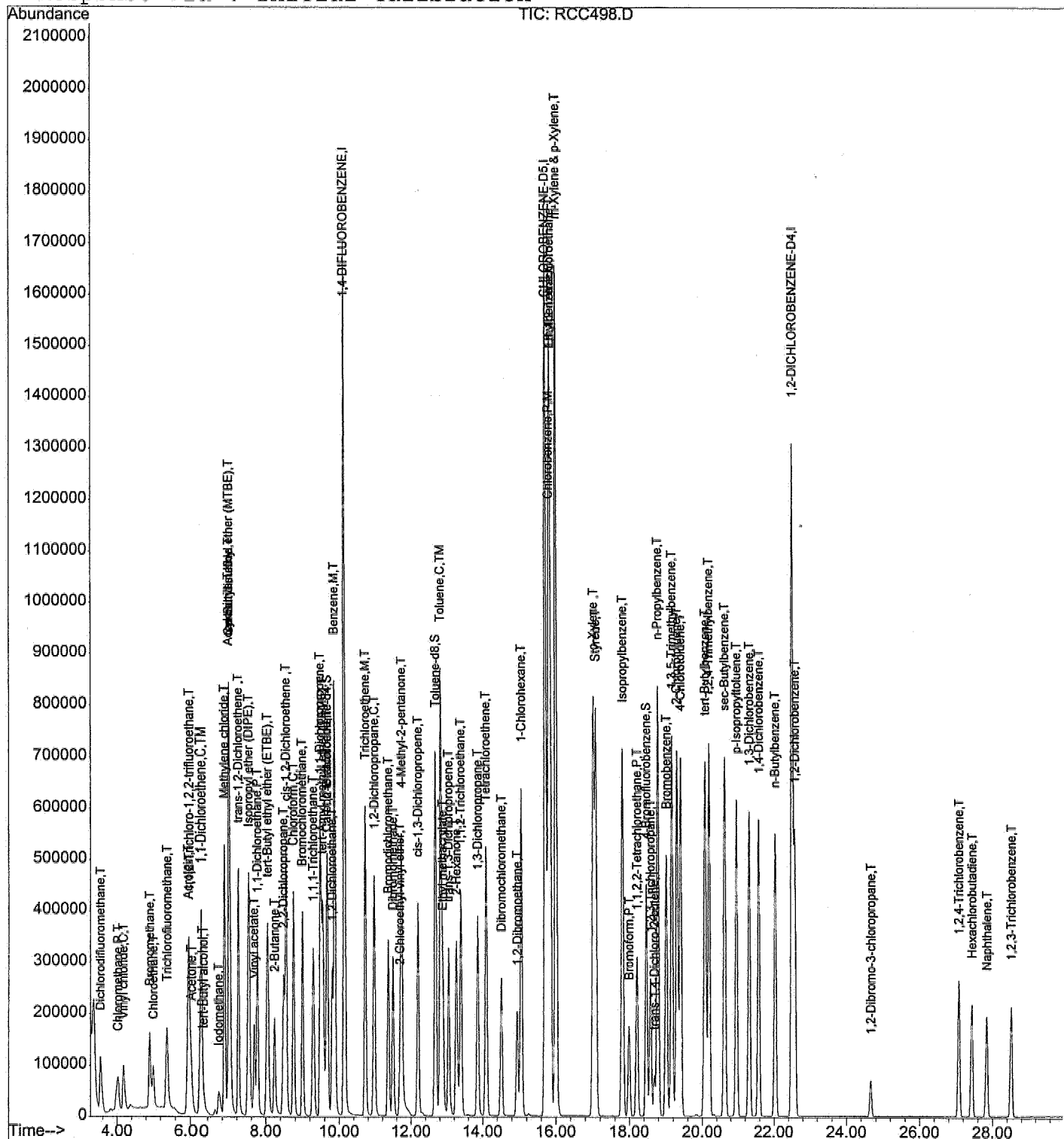
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC498.D
 Acq On : 23 Mar 2006 10:18 pm
 Sample : VO67C2313
 Misc : 20ppb 8260/80ppb Ket-AA/100ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 24 11:15 2006

Vial: 16
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Fri Mar 24 11:23:02 2006
 Response via : Initial Calibration



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3/24/06

SECOND SOURCE VERIFICATION

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
 Acq On : 23 Mar 2006 10:53 pm Operator: CGM
 Sample : IVO67C231 Inst : TO67
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006 ** Not valid for compound # 72 -*
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	112	0.00
2 T	Dichlorodifluoromethane	50.000	52.550	-5.1	117	0.01
3 P,T	Chloromethane	50.000	53.659	-7.3	123	0.01
4 C,T	Vinyl chloride	50.000	58.865	-17.7	134	0.00
5 T	Bromomethane	50.000	58.307	-16.6	140	0.00
6 T	Chloroethane	50.000	53.317	-6.6	121	0.00
7 T	Trichlorofluoromethane	50.000	53.578	-7.2	121	0.00
8 T	sec-Propyl alcohol	-1.000	0.000	0.0	26	0.00
9 T	Acrolein	200.000	204.602	-2.3	109	0.00
10 T	1,1,2-Trichloro-1,2,2-trifl	50.000	47.755	4.5	107	0.00
11 T	Acetone	200.000	192.905	3.5	103	0.00
12 C, TM	1,1-Dichloroethene	50.000	46.855	6.3	102	0.00
13 T	tert-Butyl alcohol	250.000	253.960	-1.6	101	0.00
14 T	Acetonitrile	-1.000	0.000	0.0	102	0.00
15	Methyl acetate	-1.000	0.000	0.0	224	0.00
16 T	Iodomethane	50.000	47.346	5.3	119	0.00
17 T	Methylene chloride	50.000	48.572	2.9	102	0.00
18 T	Carbon disulfide	50.000	53.663	-7.3	114	0.00
19 T	Acrylonitrile	200.000	201.499	-0.7	103	0.00
20 T	tert-Butyl methyl ether (MT)	50.000	50.124	-0.2	108	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.813	0.4	105	0.01
22 T	Isopropyl ether (DIPE)	50.000	50.065	-0.1	107	0.00
23 P,T	1,1-Dichloroethane	50.000	49.602	0.8	106	0.00
24 T	Vinyl acetate	50.000	44.928	10.1	91	0.00
25 T	tert-Butyl ethyl ether (ETB)	50.000	50.811	-1.6	110	0.00
26 T	2-Butanone	200.000	195.740	2.1	101	0.00
27 T	2,2-Dichloropropane	50.000	49.284	1.4	105	0.00
28 T	cis-1,2-Dichloroethene	50.000	49.222	1.6	103	0.00
29 T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	111	0.00
30 C,T	Chloroform	50.000	50.361	-0.7	109	0.00
31 T	Bromochloromethane	50.000	48.362	3.3	103	0.00
32 T	1,1,1-Trichloroethane	50.000	48.692	2.6	106	0.00
33 T	Cyclohexane	-1.000	0.000	0.0	75	0.00
34 T	tert-Amyl methyl ether (TAM)	50.000	50.153	-0.3	108	0.00
35 S	1,2-Dichloroethane-d4	50.000	51.266	-2.5	134	0.00
36 I	CHLOROBENZENE-D5	50.000	50.000	0.0	110	0.00
37 T	1,1-Dichloropropene	50.000	47.739	4.5	102	0.00
38 T	Carbon tetrachloride	50.000	49.098	1.8	106	0.00
39 T	1,2-Dichloroethane	50.000	48.571	2.9	103	0.00
40 M,T	Benzene	50.000	48.927	2.1	106	0.00

(#) = Out of Range

RCC499.D VO67C23.M

Tue Mar 28 09:50:11 2006

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3/28/06

Page 1

2096

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D
 Acq On : 23 Mar 2006 10:53 pm
 Sample : IVO67C231
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P

Vial: 17
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev (min)
41 M,T	Trichloroethene	50.000	49.034	1.9	108	0.00
42 T	Methylcyclohexane	-1.000	0.000	0.0	109	0.00
43 C,T	1,2-Dichloropropane	50.000	48.155	3.7	102	0.00
44 T	Bromodichloromethane	50.000	47.119	5.8	101	0.00
45 T	Dibromomethane	50.000	49.866	0.3	105	0.00
46 T	2-Chloroethyl vinyl ether	50.000	52.088	-4.2	109	0.00
47 T	4-Methyl-2-pentanone	200.000	198.504	0.7	102	0.00
48 T	cis-1,3-Dichloropropene	50.000	48.309	3.4	102	0.00
49 S	Toluene-d8	50.000	51.095	-2.2	140	0.00
50 C, TM	Toluene	50.000	49.352	1.3	107	0.00
51 T	Ethyl methacrylate	50.000	49.630	0.7	102	0.00
52 T	trans-1,3-Dichloropropene	50.000	53.573	-7.1	112	0.00
53 T	1,1,2-Trichloroethane	50.000	47.847	4.3	102	0.00
54 T	2-Hexanone	200.000	192.202	3.9	104	0.00
55 T	1,3-Dichloropropane	50.000	47.877	4.2	103	0.00
56 T	Tetrachloroethene	50.000	49.896	0.2	109	0.01
57 T	Dibromochloromethane	50.000	50.129	-0.3	107	0.00
58 T	1,2-Dibromoethane	50.000	49.262	1.5	103	0.00
59 T	1-Chlorohexane	50.000	50.052	-0.1	105	0.00
60 P, M	Chlorobenzene	50.000	49.013	2.0	107	0.00
61 T	1,1,1,2-Tetrachloroethane	50.000	49.660	0.7	107	0.00
62 C, T	Ethylbenzene	50.000	49.658	0.7	105	0.01
63 T	m-Xylene & p-Xylene	100.000	99.222	0.8	107	0.00
64 T	o-Xylene	50.000	49.121	1.8	104	0.00
65 T	Styrene	50.000	48.506	3.0	101	0.00
66 I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	110	0.00
67 P, T	Bromoform	50.000	48.217	3.6	103	0.00
68 T	Isopropylbenzene	50.000	53.398	-6.8	116	0.00
69 P, T	1,1,2,2-Tetrachloroethane	50.000	46.172	7.7	98	0.00
70 S	4-Bromofluorobenzene	50.000	51.593	-3.2	136	0.00
71 T	1,2,3-Trichloropropane	50.000	46.576	6.8	96	0.00
72 T	trans-1,4-Dichloro-2-butene	50.000	68.244	-36.5#	141	0.00
73 T	n-Propylbenzene	50.000	49.821	0.4	104	0.00
74 T	Bromobenzene	50.000	48.413	3.2	109	0.00
75 T	2-Chlorotoluene	50.000	48.166	3.7	104	0.00
76 T	1,3,5-Trimethylbenzene	50.000	50.089	-0.2	107	0.00
77 T	4-Chlorotoluene	50.000	47.423	5.2	107	0.00
78 T	tert-Butylbenzene	50.000	49.378	1.2	105	0.00
79 T	1,2,4-Trimethylbenzene	50.000	50.092	-0.2	105	0.00
80 T	sec-Butylbenzene	50.000	47.433	5.1	98	0.01

(#) = Out of Range

RCC499.D VO67C23.M

Tue Mar 28 09:50:11 2006

28
3/28/06

Page 2

2097

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
 Acq On : 23 Mar 2006 10:53 pm Operator: CGM
 Sample : IVO67C231 Inst : TO67
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev (min)
81 T	p-Isopropyltoluene	50.000	54.612	-9.2	112	0.00
82 T	1,3-Dichlorobenzene	50.000	47.816	4.4	106	0.00
83 T	1,4-Dichlorobenzene	50.000	47.187	5.6	105	0.00
84 T	n-Butylbenzene	50.000	45.772	8.5	109	0.00
85 T	1,2-Dichlorobenzene	50.000	48.204	3.6	107	0.00
86 T	1,2-Dibromo-3-chloropropane	50.000	49.582	0.8	103	0.00
87 T	1,2,4-Trichlorobenzene	50.000	44.036	11.9	109	0.00
88 T	Hexachlorobutadiene	50.000	48.576	2.8	103	0.00
89 T	Naphthalene	50.000	41.482	17.0	109	0.00
90 T	1,2,3-Trichlorobenzene	50.000	43.907	12.2	109	0.00

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D
 Acq On : 23 Mar 2006 10:53 pm
 Sample : IVO67C231
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P

Vial: 17
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration ** Not valid for compound #72.*

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	112	0.00
2 T	Dichlorodifluoromethane	0.247	0.260	-5.3	117	0.01
3 P,T	Chloromethane	0.207	0.223	-7.7	123	0.01
4 C,T	Vinyl chloride	0.172	0.168	2.3	134	0.00
5 T	Bromomethane	0.189	0.197	-4.2	140	0.00
6 T	Chloroethane	0.115	0.123	-7.0	121	0.00
7 T	Trichlorofluoromethane	0.250	0.268	-7.2	121	0.00
8 T	sec-Propyl alcohol	0.000	0.000	0.0	26#	0.00
9 T	Acrolein	0.030	0.031	-3.3	109	0.00
10 T	1,1,2-Trichloro-1,2,2-trifl	0.187	0.178	4.8	107	0.00
11 T	Acetone	0.056	0.054	3.6	103	0.00
12 C, TM	1,1-Dichloroethene	0.375	0.351	6.4	102	0.00
13 T	tert-Butyl alcohol	0.019	0.019	0.0	101	0.00
14 T	Acetonitrile	0.000	0.000	0.0	102	0.00
15	Methyl acetate	0.000	0.000	0.0	224#	0.00
16 T	Iodomethane	0.242	0.289	-19.4	119	0.00
17 T	Methylene chloride	0.444	0.390	12.2	102	0.00
18 T	Carbon disulfide	0.946	1.015	-7.3	114	0.00
19 T	Acrylonitrile	0.075	0.076	-1.3	103	0.00
20 T	tert-Butyl methyl ether (MT)	0.495	0.496	-0.2	108	0.00
21 T	trans-1,2-Dichloroethene	0.383	0.382	0.3	105	0.01
22 T	Isopropyl ether (DIPE)	0.868	0.869	-0.1	107	0.00
23 P,T	1,1-Dichloroethane	0.489	0.485	0.8	106	0.00
24 T	Vinyl acetate	0.468	0.421	10.0	91	0.00
25 T	tert-Butyl ethyl ether (ETB)	0.638	0.648	-1.6	110	0.00
26 T	2-Butanone	0.113	0.111	1.8	101	0.00
27 T	2,2-Dichloropropane	0.303	0.298	1.7	105	0.00
28 T	cis-1,2-Dichloroethene	0.438	0.431	1.6	103	0.00
29 T	tert-Butyl formate (TBF)	0.000	0.000	0.0	111	0.00
30 C,T	Chloroform	0.476	0.479	-0.6	109	0.00
31 T	Bromochloromethane	0.265	0.256	3.4	103	0.00
32 T	1,1,1-Trichloroethane	0.340	0.331	2.6	106	0.00
33 T	Cyclohexane	0.000	0.000	0.0	75	0.00
34 T	tert-Amyl methyl ether (TAM)	0.671	0.673	-0.3	108	0.00
35 S	1,2-Dichloroethane-d4	0.217	0.222	-2.3	134	0.00
36 I	CHLOROBENZENE-D5	1.000	1.000	0.0	110	0.00
37 T	1,1-Dichloropropene	0.143	0.136	4.9	102	0.00
38 T	Carbon tetrachloride	0.334	0.328	1.8	106	0.00
39 T	1,2-Dichloroethane	0.312	0.303	2.9	103	0.00
40 M,T	Benzene	1.368	1.339	2.1	106	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D
 Acq On : 23 Mar 2006 10:53 pm
 Sample : IVO67C231
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P

Vial: 17
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
41 M,T Trichloroethene	0.377	0.370	1.9	108	0.00
42 T Methylcyclohexane	0.000	0.000	0.0	109	0.00
43 C,T 1,2-Dichloropropane	0.370	0.356	3.8	102	0.00
44 T Bromodichloromethane	0.402	0.379	5.7	101	0.00
45 T Dibromomethane	0.223	0.223	0.0	105	0.00
46 T 2-Chloromethyl vinyl ether	0.056	0.058	-3.6	109	0.00
47 T 4-Methyl-2-pentanone	0.285	0.283	0.7	102	0.00
48 T cis-1,3-Dichloropropene	0.472	0.456	3.4	102	0.00
49 S Toluene-d8	1.103	1.127	-2.2	140	0.00
50 C, TM Toluene	1.317	1.300	1.3	107	0.00
51 T Ethyl methacrylate	0.325	0.322	0.9	102	0.00
52 T trans-1,3-Dichloropropene	0.340	0.364	-7.1	112	0.00
53 T 1,1,2-Trichloroethane	0.276	0.264	4.3	102	0.00
54 T 2-Hexanone	0.191	0.180	5.8	104	0.00
55 T 1,3-Dichloropropane	0.468	0.448	4.3	103	0.00
56 T Tetrachloroethene	0.261	0.260	0.4	109	0.01
57 T Dibromochloromethane	0.309	0.310	-0.3	107	0.00
58 T 1,2-Dibromoethane	0.306	0.301	1.6	103	0.00
59 T 1-Chlorohexane	0.506	0.506	0.0	105	0.00
60 P, M Chlorobenzene	0.908	0.890	2.0	107	0.00
61 T 1,1,1,2-Tetrachloroethane	0.284	0.282	0.7	107	0.00
62 C, T Ethylbenzene	1.421	1.412	0.6	105	0.01
63 T m-Xylene & p-Xylene	1.066	1.058	0.8	107	0.00
64 T o-Xylene	1.096	1.077	1.7	104	0.00
65 T Styrene	0.885	0.858	3.1	101	0.00
66 I 1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	110	0.00
67 P, T Bromoform	0.508	0.490	3.5	103	0.00
68 T Isopropylbenzene	3.561	3.803	-6.8	116	0.00
69 P, T 1,1,2,2-Tetrachloroethane	1.192	1.101	7.6	98	0.00
70 S 4-Bromofluorobenzene	1.063	1.097	-3.2	136	0.00
71 T 1,2,3-Trichloropropane	0.199	0.185	7.0	96	0.00
72 T trans-1,4-Dichloro-2-butene	0.102	0.139	-36.3#	141	0.00
73 T n-Propylbenzene	4.721	4.704	0.4	104	0.00
74 T Bromobenzene	0.925	0.896	3.1	109	0.00
75 T 2-Chlorotoluene	2.960	2.852	3.6	104	0.00
76 T 1,3,5-Trimethylbenzene	2.893	2.898	-0.2	107	0.00
77 T 4-Chlorotoluene	2.543	2.412	5.2	107	0.00
78 T tert-Butylbenzene	2.549	2.517	1.3	105	0.00
79 T 1,2,4-Trimethylbenzene	2.782	2.788	-0.2	105	0.00
80 T sec-Butylbenzene	4.020	3.814	5.1	98	0.01

(#) = Out of Range

ew
 3/28/06

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D Vial: 17
 Acq On : 23 Mar 2006 10:53 pm Operator: CGM
 Sample : IVO67C231 Inst : T067
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
81 T	p-Isopropyltoluene	2.637	2.881	-9.3	112	0.00
82 T	1,3-Dichlorobenzene	1.707	1.632	4.4	106	0.00
83 T	1,4-Dichlorobenzene	1.679	1.584	5.7	105	0.00
84 T	n-Butylbenzene	2.510	2.563	-2.1	109	0.00
85 T	1,2-Dichlorobenzene	1.540	1.484	3.6	107	0.00
86 T	1,2-Dibromo-3-chloropropane	0.137	0.136	0.7	103	0.00
87 T	1,2,4-Trichlorobenzene	0.588	0.579	1.5	109	0.00
88 T	Hexachlorobutadiene	0.311	0.291	6.4	103	0.00
89 T	Naphthalene	1.203	1.135	5.7	109	0.00
90 T	1,2,3-Trichlorobenzene	0.479	0.472	1.5	109	0.00

ew
 3/28/06

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D
 Acq On : 23 Mar 2006 10:53 pm
 Sample : IVO67C231
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 28 9:44 2006

Vial: 17
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

* Not valid for compound # 72.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.14	114	2722743	50.00	ug/l	0.00
36) CHLOROBENZENE-D5	15.71	117	2441749	50.00	ug/l	0.00
66) 1,2-DICHLOROBENZENE-D4	22.50	152	874892	50.00	ug/l	0.00

System Monitoring Compounds

35) 1,2-Dichloroethane-d4	9.68	65	605669	51.27	ug/l	0.00
Spiked Amount						
			Recovery	=	102.54%	
49) Toluene-d8	12.67	98	2752560	51.10	ug/l	0.00
Spiked Amount						
			Recovery	=	102.20%	
70) 4-Bromofluorobenzene	18.46	95	959833	51.59	ug/l	0.00
Spiked Amount						
			Recovery	=	103.18%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.54	85	706732	52.55	ug/l	100
3) Chloromethane	4.03	50	606225	53.66	ug/l	98
4) Vinyl chloride	4.16	62	456328	58.86	ug/l	100
5) Bromomethane	4.89	94	537551	58.31	ug/l	100
6) Chloroethane	5.00	64	334837	53.32	ug/l	99
7) Trichlorofluoromethane	5.37	101	729357	53.58	ug/l	100
9) Acrolein	5.94	56	336002	204.60	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	5.95	151	485024	47.75	ug/l	100
11) Acetone	6.01	43	592864	192.91	ug/l	99
12) 1,1-Dichloroethene	6.24	61	956238	46.85	ug/l	99
13) tert-Butyl alcohol	6.26	59	263777	253.96	ug/l	95
16) Iodomethane	6.70	142	786920	47.35	ug/l	99
17) Methylene chloride	6.86	49	1060621	48.57	ug/l	98
18) Carbon disulfide	6.99	76	2764689	53.66	ug/l	100
19) Acrylonitrile	6.98	53	826061	201.50	ug/l	99
20) tert-Butyl methyl ether (M	6.99	73	1350206	50.12	ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	1039036	49.81	ug/l	98
22) Isopropyl ether (DIPE)	7.53	45	2367077	50.06	ug/l	100
23) 1,1-Dichloroethane	7.77	63	1321215	49.60	ug/l	99
24) Vinyl acetate	7.68	43	1146166	44.93	ug/l	99
25) tert-Butyl ethyl ether (ET	8.05	59	1764885	50.81	ug/l	99
26) 2-Butanone	8.23	43	1205813	195.74	ug/l	99
27) 2,2-Dichloropropane	8.48	77	812737	49.28	ug/l	99
28) cis-1,2-Dichloroethene	8.56	61	1174580	49.22	ug/l	98
30) Chloroform	8.75	83	1304918	50.36	ug/l	99
31) Bromochloromethane	8.99	49	697888	48.36	ug/l	95
32) 1,1,1-Trichloroethane	9.29	97	902521	48.69	ug/l	99
34) tert-Amyl methyl ether (TA	9.54	73	1833165	50.15	ug/l	99
37) 1,1-Dichloropropene	9.48	77	332501	47.74	ug/l	98

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

RCC499.D VO67C23.M Tue Mar 28 09:50:31 2006

2/28/06

Page 1

2102

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D
 Acq On : 23 Mar 2006 10:53 pm
 Sample : IVO67C231
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 28 9:44 2006

Vial: 17
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.66	119	801110	49.10	ug/l	99
39) 1,2-Dichloroethane	9.81	62	740793	48.57	ug/l	100
40) Benzene	9.87	78	3268768	48.93	ug/l	99
41) Trichloroethene	10.72	130	902903	49.03	ug/l	98
43) 1,2-Dichloropropane	10.97	63	869199	48.16	ug/l	99
44) Bromodichloromethane	11.36	83	925983	47.12	ug/l	100
45) Dibromomethane	11.49	93	544112	49.87	ug/l	98
46) 2-Chloroethyl vinyl ether	11.67	63	141272	52.09	ug/l	99
47) 4-Methyl-2-pentanone	11.72	43	2764316	198.50	ug/l	100
48) cis-1,3-Dichloropropene	12.19	75	1112554	48.31	ug/l	99
50) Toluene	12.82	91	3173931	49.35	ug/l	100
51) Ethyl methacrylate	12.88	69	786944	49.63	ug/l	99
52) trans-1,3-Dichloropropene	13.04	75	888945	53.57	ug/l	98
53) 1,1,2-Trichloroethane	13.38	97	645762	47.85	ug/l	100
54) 2-Hexanone	13.25	43	1756422	192.20	ug/l	99
55) 1,3-Dichloropropane	13.86	76	1094498	47.88	ug/l	100
56) Tetrachloroethene	14.10	164	634954	49.90	ug/l	100
57) Dibromochloromethane	14.52	129	757021	50.13	ug/l	100
58) 1,2-Dibromoethane	14.93	107	734987	49.26	ug/l	100
59) 1-Chlorohexane	15.05	91	1236681	50.05	ug/l	99
60) Chlorobenzene	15.80	112	2174372	49.01	ug/l	99
61) 1,1,1,2-Tetrachloroethane	15.84	131	688220	49.66	ug/l	99
62) Ethylbenzene	15.84	91	3446658	49.66	ug/l	100
63) m-Xylene & p-Xylene	15.99	91	5165846	99.22	ug/l	99
64) o-Xylene	17.00	91	2628868	49.12	ug/l	100
65) Styrene	17.08	104	2096205	48.51	ug/l	99
67) Bromoform	17.99	173	428317	48.22	ug/l	99
68) Isopropylbenzene	17.81	105	3327148	53.40	ug/l	100
69) 1,1,2,2-Tetrachloroethane	18.21	83	963396	46.17	ug/l	99
71) 1,2,3-Trichloropropane	18.58	61	161870	46.58	ug/l	97
72) trans-1,4-Dichloro-2-buten	18.69	53	121252	68.24	ug/l	98
73) n-Propylbenzene	18.78	91	4115852	49.82	ug/l	100
74) Bromobenzene	19.01	156	783792	48.41	ug/l	99
75) 2-Chlorotoluene	19.30	91	2494781	48.17	ug/l	99
76) 1,3,5-Trimethylbenzene	19.16	105	2535207	50.09	ug/l	100
77) 4-Chlorotoluene	19.40	91	2110082	47.42	ug/l	100
78) tert-Butylbenzene	20.07	119	2202006	49.38	ug/l	100
79) 1,2,4-Trimethylbenzene	20.18	105	2438852	50.09	ug/l	100
80) sec-Butylbenzene	20.62	105	3336674	47.43	ug/l	100
81) p-Isopropyltoluene	20.95	119	2520207	54.61	ug/l	99
82) 1,3-Dichlorobenzene	21.31	146	1428237	47.82	ug/l	100

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

RCC499.D VO67C23.M Tue Mar 28 09:50:32 2006

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3/28/06

Page 2

2103

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D

Vial: 17

Acq On : 23 Mar 2006 10:53 pm

Operator: CGM

Sample : IVO67C231

Inst : TO67

Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 28 9:44 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.58	146	1385945	47.19	ug/l	100
84) n-Butylbenzene	22.02	91	2242136	45.77	ug/l	100
85) 1,2-Dichlorobenzene	22.57	146	1298678	48.20	ug/l	99
86) 1,2-Dibromo-3-chloropropan	24.66	157	118792	49.58	ug/l	99
87) 1,2,4-Trichlorobenzene	27.07	180	506191	44.04	ug/l	100
88) Hexachlorobutadiene	27.43	225	254875	48.58	ug/l	100
89) Naphthalene	27.83	128	993008	41.48	ug/l	100
90) 1,2,3-Trichlorobenzene	28.50	180	413073	43.91	ug/l	98

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

RCC499.D VO67C23.M Tue Mar 28 09:50:32 2006

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Page 3

2104

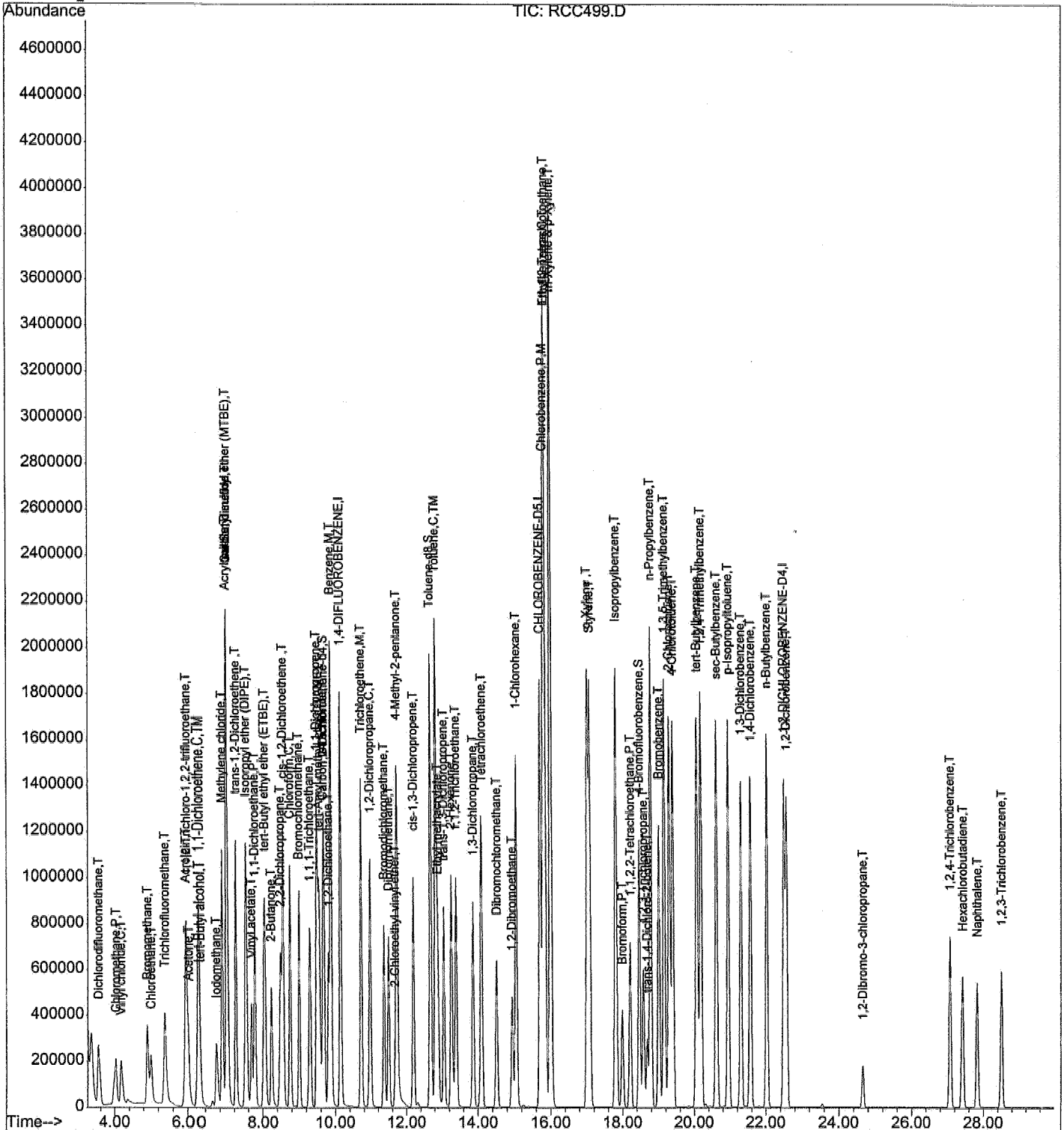
Quantitation Report

Data File : D:\HPCHEM\1\DATA\06C23\RCC499.D
 Acq On : 23 Mar 2006 10:53 pm
 Sample : IVO67C231
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 28 9:44 2006

Vial: 17
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration



Handwritten signature and date: *CGM* 3/28/06

DAILY CALIBRATION

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
 Lab Code: EMXT
 Lab File ID: RCC488
 Instrument ID: 1-067
 GC Column: RTX502.2

Project: UPGRAIDENT INVESTIGATION, TRONOX
 SDG No.: 06C222
 Date Analyzed: 03/23/06
 Time Analyzed: 16:23
 Heated Purge: (Y/N) Y

ID: 0.32mm (mm)

	IS1(CBF)		IS2(CBZ)		IS3(DCB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	2430846	10.14	2219848	15.71	796276	22.50
UPPER LIMIT	4861692	10.64	4439696	16.21	1592552	23.00
LOWER LIMIT	1215423	9.64	1109924	15.21	398138	22.00
SAMPLE ID						
1 VSTD050	2622597	10.16	2457226	15.73	883625	22.52
2 MBLK1W	2522652	10.15	2174431	15.72	573843	22.51
3 LCS1W	2699040	10.15	2472947	15.72	821799	22.52
4 LCD1W	2786681	10.15	2583573	15.72	883377	22.51
5 TRIP BLANK	2440646	10.15	2128180	15.72	588933	22.52
6 M-121	2352252	10.15	1984448	15.72	552082	22.52
7 M-117	2364880	10.16	2068341	15.72	550550	22.51
8 H-11	2352292	10.15	2064091	15.72	572799	22.51
9 M-121MS	2257760	10.15	2066536	15.72	755902	22.51
10 M-121MSD	2386046	10.16	2157820	15.72	772377	22.51

IS1 (DFB) = 1,4-Difluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 1,2-Dichlorobenzene-d4

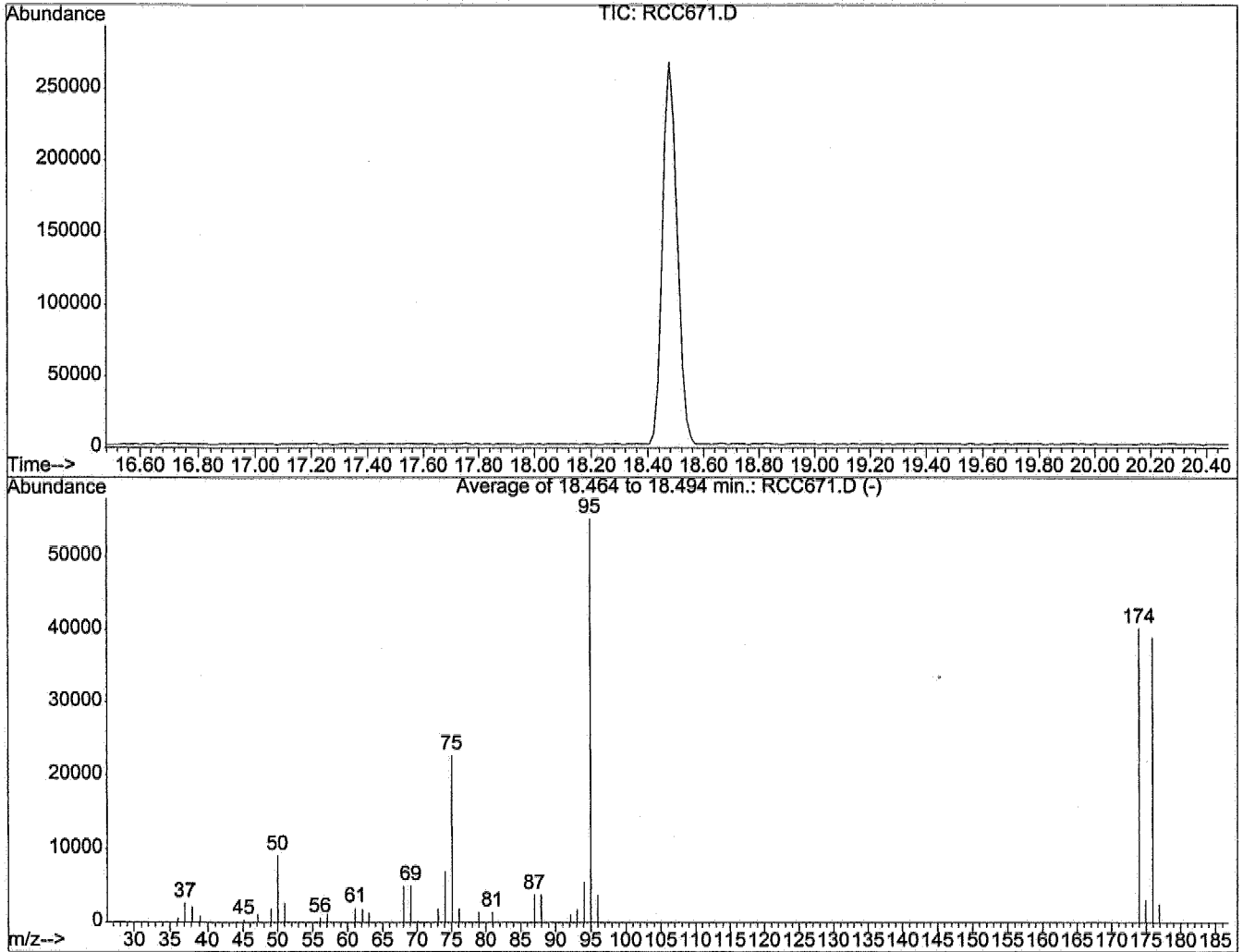
AREA UPPER LIMIT = + 100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 AREA UPPER LIMIT = + 50% of surrogate area
 AREA LOWER LIMIT = - 50% of surrogate area

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

BFB

Data File : D:\HPCHEM\1\DATA\06C29\RCC671.D
Acq On : 30 Mar 2006 4:25 am
Sample : BFB67C47
Misc : BFB TUNE
MS Integration Params: LSCINT.P
Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
Title : METHOD 8260 5ml

Vial: 2
Operator: CGM
Inst : TO67
Multiplr: 1.00



AutoFind: Scans 1023, 1024, 1025; Background Corrected with Scan 1018

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5 ✓	9129	PASS
75	95	30	60	41.2 ✓	22747	PASS
95	95	100	100	100.0 ✓	55168	PASS
96	95	5	9	6.7	3677	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.9	40221	PASS
175	174	5	9	7.7	3090	PASS
176	174	95	101	96.9	38987	PASS
177	176	5	9	6.6 ✓	2584	PASS

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC672.D
 Acq On : 30 Mar 2006 5:01 am
 Sample : CVO67C2317
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P

Vial: 3
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	108	0.02
2 T	Dichlorodifluoromethane	50.000	53.819	-7.6	116	0.02
3 P,T	Chloromethane	50.000	54.895	-9.8	121	0.02
4 C,T	Vinyl chloride	50.000	49.764	0.5	115	0.02
5 T	Bromomethane	50.000	43.810	12.4	103	0.02
6 T	Chloroethane	50.000	56.077	-12.2	123	0.02
7 T	Trichlorofluoromethane	50.000	55.148	-10.3	120	0.02
8 T	sec-Propyl alcohol	-1.000	0.000	0.0	104	0.02
9 T	Acrolein	200.000	219.009	-9.5	113	0.02
10 T	1,1,2-Trichloro-1,2,2-trifl	50.000	52.527	-5.1	113	0.02
11 T	Acetone	200.000	212.319	-6.2	109	0.02
12 C, TM	1,1-Dichloroethene	50.000	51.316	-2.6	108	0.02
13 T	tert-Butyl alcohol	250.000	251.054	-0.4	96	0.02
14 T	Acetonitrile	-1.000	0.000	0.0	109	0.02
15	Methyl acetate	-1.000	0.000	0.0	125	0.02
16 T	Iodomethane	50.000	47.064	5.9	114	0.02
17 T	Methylene chloride	50.000	53.580	-7.2	108	0.00
18 T	Carbon disulfide	50.000	49.863	0.3	102	0.02
19 T	Acrylonitrile	200.000	227.258	-13.6	112	0.00
20 T	tert-Butyl methyl ether (MT)	50.000	55.104	-10.2	114	0.02
21 T	trans-1,2-Dichloroethene	50.000	51.322	-2.6	104	0.02
22 T	Isopropyl ether (DIPE)	50.000	54.607	-9.2	113	0.00
23 P,T	1,1-Dichloroethane	50.000	52.766	-5.5	108	0.02
24 T	Vinyl acetate	50.000	50.906	-1.8	100	0.02
25 T	tert-Butyl ethyl ether (ETB)	50.000	54.794	-9.6	114	0.00
26 T	2-Butanone	200.000	222.699	-11.3	111	0.02
27 T	2,2-Dichloropropane	50.000	48.413	3.2	99	0.02
28 T	cis-1,2-Dichloroethene	50.000	52.753	-5.5	106	0.00
29 T	tert-Butyl formate (TBF)	-1.000	0.000	0.0	124	0.00
30 C,T	Chloroform	50.000	53.590	-7.2	111	0.02
31 T	Bromochloromethane	50.000	53.857	-7.7	110	0.02
32 T	1,1,1-Trichloroethane	50.000	50.891	-1.8	106	0.02
33 T	Cyclohexane	-1.000	0.000	0.0	109	0.02
34 T	tert-Amyl methyl ether (TAM)	50.000	55.716	-11.4	116	0.02
35 S	1,2-Dichloroethane-d4	50.000	51.690	-3.4	130	0.02
36 I	CHLOROBENZENE-D5	50.000	50.000	0.0	111	0.02
37 T	1,1-Dichloropropene	50.000	49.243	1.5	106	0.02
38 T	Carbon tetrachloride	50.000	49.672	0.7	108	0.02
39 T	1,2-Dichloroethane	50.000	51.285	-2.6	109	0.00
40 M,T	Benzene	50.000	49.447	1.1	108	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC672.D
 Acq On : 30 Mar 2006 5:01 am
 Sample : CVO67C2317
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P

Vial: 3
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41 M,T Trichloroethene	50.000	50.315	-0.6	111	0.00
42 T Methylcyclohexane	-1.000	0.000	0.0	104	0.00
43 C,T 1,2-Dichloropropane	50.000	51.727	-3.5	110	0.00
44 T Bromodichloromethane	50.000	51.556	-3.1	111	0.02
45 T Dibromomethane	50.000	51.777	-3.6	109	0.00
46 T 2-Chloroethyl vinyl ether	50.000	37.661	24.7#	79	0.02
47 T 4-Methyl-2-pentanone	200.000	212.067	-6.0	110	0.02
48 T cis-1,3-Dichloropropene	50.000	51.831	-3.7	110	0.02
49 S Toluene-d8	50.000	47.399	5.2	131	0.02
50 C, TM Toluene	50.000	50.133	-0.3	109	0.02
51 T Ethyl methacrylate	50.000	53.889	-7.8	112	0.02
52 T trans-1,3-Dichloropropene	50.000	52.118	-4.2	110	0.02
53 T 1,1,2-Trichloroethane	50.000	52.856	-5.7	113	0.02
54 T 2-Hexanone	200.000	193.251	3.4	105	0.02
55 T 1,3-Dichloropropane	50.000	52.144	-4.3	112	0.02
56 T Tetrachloroethene	50.000	48.730	2.5	107	0.02
57 T Dibromochloromethane	50.000	54.356	-8.7	117	0.00
58 T 1,2-Dibromoethane	50.000	52.948	-5.9	111	0.02
59 T 1-Chlorohexane	50.000	51.496	-3.0	109	0.02
60 P, M Chlorobenzene	50.000	51.102	-2.2	112	0.02
61 T 1,1,1,2-Tetrachloroethane	50.000	53.238	-6.5	116	0.02
62 C, T Ethylbenzene	50.000	51.435	-2.9	110	0.02
63 T m-Xylene & p-Xylene	100.000	103.017	-3.0	111	0.02
64 T o-Xylene	50.000	52.557	-5.1	112	0.02
65 T Styrene	50.000	53.787	-7.6	113	0.02
66 I 1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	111	0.02
67 P, T Bromoform	50.000	52.148	-4.3	113	0.02
68 T Isopropylbenzene	50.000	50.604	-1.2	111	0.00
69 P, T 1,1,2,2-Tetrachloroethane	50.000	49.224	1.6	105	0.00
70 S 4-Bromofluorobenzene	50.000	49.978	0.0	133	0.02
71 T 1,2,3-Trichloropropane	50.000	49.802	0.4	104	0.00
72 T trans-1,4-Dichloro-2-butene	50.000	43.453	13.1	91	0.00
73 T n-Propylbenzene	50.000	50.159	-0.3	106	0.02
74 T Bromobenzene	50.000	50.800	-1.6	116	0.02
75 T 2-Chlorotoluene	50.000	48.599	2.8	106	0.02
76 T 1,3,5-Trimethylbenzene	50.000	51.961	-3.9	112	0.00
77 T 4-Chlorotoluene	50.000	52.794	-5.6	120	0.00
78 T tert-Butylbenzene	50.000	52.091	-4.2	112	0.00
79 T 1,2,4-Trimethylbenzene	50.000	51.368	-2.7	109	0.02
80 T sec-Butylbenzene	50.000	52.589	-5.2	110	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC672.D Vial: 3
 Acq On : 30 Mar 2006 5:01 am Operator: CGM
 Sample : CVO67C2317 Inst : TO67
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81 T	p-Isopropyltoluene	50.000	52.453	-4.9	109	0.00
82 T	1,3-Dichlorobenzene	50.000	50.047	-0.1	112	0.00
83 T	1,4-Dichlorobenzene	50.000	50.135	-0.3	113	0.00
84 T	n-Butylbenzene	50.000	42.540	14.9	102	0.02
85 T	1,2-Dichlorobenzene	50.000	51.168	-2.3	115	0.02
86 T	1,2-Dibromo-3-chloropropane	50.000	48.955	2.1	103	0.02
87 T	1,2,4-Trichlorobenzene	50.000	40.408	19.2	100	0.02
88 T	Hexachlorobutadiene	50.000	50.095	-0.2	107	0.02
89 T	Naphthalene	50.000	36.528	26.9#	96	0.02
90 T	1,2,3-Trichlorobenzene	50.000	40.460	19.1	100	0.02

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC672.D
 Acq On : 30 Mar 2006 5:01 am
 Sample : CVO67C2317
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P

Vial: 3
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	108	0.02
2 T	Dichlorodifluoromethane	0.247	0.266	-7.7	116	0.02
3 P,T	Chloromethane	0.207	0.228	-10.1	121	0.02
4 C,T	Vinyl chloride	0.172	0.149	13.4	115	0.02
5 T	Bromomethane	0.189	0.151	20.1#	103	0.02
6 T	Chloroethane	0.115	0.129	-12.2	123	0.02
7 T	Trichlorofluoromethane	0.250	0.276	-10.4	120	0.02
8 T	sec-Propyl alcohol	0.000	0.000	0.0	104	0.02
9 T	Acrolein	0.030	0.033	-10.0	113	0.02
10 T	1,1,2-Trichloro-1,2,2-trifl	0.187	0.196	-4.8	113	0.02
11 T	Acetone	0.056	0.060	-7.1	109	0.02
12 C, TM	1,1-Dichloroethene	0.375	0.385	-2.7	108	0.02
13 T	tert-Butyl alcohol	0.019	0.019	0.0	96	0.02
14 T	Acetonitrile	0.000	0.000	0.0	109	0.02
15	Methyl acetate	0.000	0.000	0.0	125	0.02
16 T	Iodomethane	0.242	0.287	-18.6	114	0.02
17 T	Methylene chloride	0.444	0.427	3.8	108	0.00
18 T	Carbon disulfide	0.946	0.944	0.2	102	0.02
19 T	Acrylonitrile	0.075	0.086	-14.7	112	0.00
20 T	tert-Butyl methyl ether (MT	0.495	0.545	-10.1	114	0.02
21 T	trans-1,2-Dichloroethene	0.383	0.393	-2.6	104	0.02
22 T	Isopropyl ether (DIPE)	0.868	0.948	-9.2	113	0.00
23 P,T	1,1-Dichloroethane	0.489	0.516	-5.5	108	0.02
24 T	Vinyl acetate	0.468	0.477	-1.9	100	0.02
25 T	tert-Butyl ethyl ether (ETB	0.638	0.699	-9.6	114	0.00
26 T	2-Butanone	0.113	0.126	-11.5	111	0.02
27 T	2,2-Dichloropropane	0.303	0.293	3.3	99	0.02
28 T	cis-1,2-Dichloroethene	0.438	0.462	-5.5	106	0.00
29 T	tert-Butyl formate (TBF)	0.000	0.000	0.0	124	0.00
30 C,T	Chloroform	0.476	0.510	-7.1	111	0.02
31 T	Bromochloromethane	0.265	0.285	-7.5	110	0.02
32 T	1,1,1-Trichloroethane	0.340	0.346	-1.8	106	0.02
33 T	Cyclohexane	0.000	0.000	0.0	109	0.02
34 T	tert-Amyl methyl ether (TAM	0.671	0.748	-11.5	116	0.02
35 S	1,2-Dichloroethane-d4	0.217	0.224	-3.2	130	0.02
36 I	CHLOROBENZENE-D5	1.000	1.000	0.0	111	0.02
37 T	1,1-Dichloropropene	0.143	0.140	2.1	106	0.02
38 T	Carbon tetrachloride	0.334	0.332	0.6	108	0.02
39 T	1,2-Dichloroethane	0.312	0.320	-2.6	109	0.00
40 M,T	Benzene	1.368	1.353	1.1	108	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC672.D
 Acq On : 30 Mar 2006 5:01 am
 Sample : CVO67C2317
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P

Vial: 3
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41 M,T Trichloroethene	0.377	0.379	-0.5	111	0.00
42 T Methylcyclohexane	0.000	0.000	0.0	104	0.00
43 C,T 1,2-Dichloropropane	0.370	0.382	-3.2	110	0.00
44 T Bromodichloromethane	0.402	0.415	-3.2	111	0.02
45 T Dibromomethane	0.223	0.231	-3.6	109	0.00
46 T 2-Chloroethyl vinyl ether	0.056	0.042	25.0#	79	0.02
47 T 4-Methyl-2-pentanone	0.285	0.302	-6.0	110	0.02
48 T cis-1,3-Dichloropropene	0.472	0.489	-3.6	110	0.02
49 S Toluene-d8	1.103	1.046	5.2	131	0.02
50 C, TM Toluene	1.317	1.320	-0.2	109	0.02
51 T Ethyl methacrylate	0.325	0.350	-7.7	112	0.02
52 T trans-1,3-Dichloropropene	0.340	0.354	-4.1	110	0.02
53 T 1,1,2-Trichloroethane	0.276	0.292	-5.8	113	0.02
54 T 2-Hexanone	0.191	0.181	5.2	105	0.02
55 T 1,3-Dichloropropane	0.468	0.488	-4.3	112	0.02
56 T Tetrachloroethene	0.261	0.254	2.7	107	0.02
57 T Dibromochloromethane	0.309	0.336	-8.7	117	0.00
58 T 1,2-Dibromoethane	0.306	0.324	-5.9	111	0.02
59 T 1-Chlorohexane	0.506	0.521	-3.0	109	0.02
60 P, M Chlorobenzene	0.908	0.928	-2.2	112	0.02
61 T 1,1,1,2-Tetrachloroethane	0.284	0.302	-6.3	116	0.02
62 C, T Ethylbenzene	1.421	1.462	-2.9	110	0.02
63 T m-Xylene & p-Xylene	1.066	1.098	-3.0	111	0.02
64 T o-Xylene	1.096	1.152	-5.1	112	0.02
65 T Styrene	0.885	0.952	-7.6	113	0.02
66 I 1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	111	0.02
67 P, T Bromoform	0.508	0.529	-4.1	113	0.02
68 T Isopropylbenzene	3.561	3.604	-1.2	111	0.00
69 P, T 1,1,2,2-Tetrachloroethane	1.192	1.174	1.5	105	0.00
70 S 4-Bromofluorobenzene	1.063	1.063	0.0	133	0.02
71 T 1,2,3-Trichloropropane	0.199	0.198	0.5	104	0.00
72 T trans-1,4-Dichloro-2-butene	0.102	0.088	13.7	91	0.00
73 T n-Propylbenzene	4.721	4.736	-0.3	106	0.02
74 T Bromobenzene	0.925	0.940	-1.6	116	0.02
75 T 2-Chlorotoluene	2.960	2.877	2.8	106	0.02
76 T 1,3,5-Trimethylbenzene	2.893	3.006	-3.9	112	0.00
77 T 4-Chlorotoluene	2.543	2.685	-5.6	120	0.00
78 T tert-Butylbenzene	2.549	2.655	-4.2	112	0.00
79 T 1,2,4-Trimethylbenzene	2.782	2.859	-2.8	109	0.02
80 T sec-Butylbenzene	4.020	4.228	-5.2	110	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\06C29\RCC672.D Vial: 3
 Acq On : 30 Mar 2006 5:01 am Operator: CGM
 Sample : CVO67C2317 Inst : TO67
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 T	p-Isopropyltoluene	2.637	2.767	-4.9	109	0.00
82 T	1,3-Dichlorobenzene	1.707	1.709	-0.1	112	0.00
83 T	1,4-Dichlorobenzene	1.679	1.683	-0.2	113	0.00
84 T	n-Butylbenzene	2.510	2.367	5.7	102	0.02
85 T	1,2-Dichlorobenzene	1.540	1.576	-2.3	115	0.02
86 T	1,2-Dibromo-3-chloropropane	0.137	0.134	2.2	103	0.02
87 T	1,2,4-Trichlorobenzene	0.588	0.527	10.4	100	0.02
88 T	Hexachlorobutadiene	0.311	0.301	3.2	107	0.02
89 T	Naphthalene	1.203	0.984	18.2	96	0.02
90 T	1,2,3-Trichlorobenzene	0.479	0.432	9.8	100	0.02

Data File : D:\HPCHEM\1\data\06C29\RCC672.D Vial: 3
 Acq On : 30 Mar 2006 5:01 am Operator: CGM
 Sample : CVO67C2317 Inst : TO67
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA Multiplr: 1.00
 MS Integration Params: LSCINT.P
 Quant Time: Mar 30 5:31 2006 Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration
 DataAcq Meth : VO67C23

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-DIFLUOROBENZENE	10.16	114	2622597	50.00	ug/l	0.02
36) CHLOROBENZENE-D5	15.73	117	2457226	50.00	ug/l	0.02
66) 1,2-DICHLOROBENZENE-D4	22.52	152	883625	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
35) 1,2-Dichloroethane-d4	9.69	65	588216	51.69	ug/l	0.02
Spiked Amount						
						Recovery = 103.38%
49) Toluene-d8	12.69	98	2569625	47.40	ug/l	0.02
Spiked Amount						
						Recovery = 94.80%
70) 4-Bromofluorobenzene	18.48	95	939069	49.98	ug/l	0.02
Spiked Amount						
						Recovery = 99.96%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.54	85	697179	53.82	ug/l	100
3) Chloromethane	4.03	50	597381	54.90	ug/l	98
4) Vinyl chloride	4.18	62	392061	49.76	ug/l	100
5) Bromomethane	4.91	94	396914	43.81	ug/l	100
6) Chloroethane	5.02	64	339217	56.08	ug/l	99
7) Trichlorofluoromethane	5.39	101	723113	55.15	ug/l	99
9) Acrolein	5.96	56	346432	219.01	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	5.97	151	513868	52.53	ug/l	100
11) Acetone	6.03	43	628528	212.32	ug/l	99
12) 1,1-Dichloroethene	6.25	61	1008765	51.32	ug/l	98
13) tert-Butyl alcohol	6.28	59	251168	251.05	ug/l	96
16) Iodomethane	6.71	142	752788	47.06	ug/l	99
17) Methylene chloride	6.86	49	1119093	53.58	ug/l	98
18) Carbon disulfide	7.01	76	2474441	49.86	ug/l	100
19) Acrylonitrile	6.98	53	897391	227.26	ug/l	99
20) tert-Butyl methyl ether (M	7.01	73	1429758	55.10	ug/l	99
21) trans-1,2-Dichloroethene	7.25	61	1031134	51.32	ug/l	98
22) Isopropyl ether (DIPE)	7.53	45	2486851	54.61	ug/l	99
23) 1,1-Dichloroethane	7.79	63	1353806	52.77	ug/l	99
24) Vinyl acetate	7.70	43	1250905	50.91	ug/l	99
25) tert-Butyl ethyl ether (ET	8.06	59	1833225	54.79	ug/l	98
26) 2-Butanone	8.25	43	1321424	222.70	ug/l	100
27) 2,2-Dichloropropane	8.50	77	769010	48.41	ug/l	98
28) cis-1,2-Dichloroethene	8.56	61	1212538	52.75	ug/l	97
30) Chloroform	8.77	83	1337523	53.59	ug/l	99
31) Bromochloromethane	9.01	49	748599	53.86	ug/l	94
32) 1,1,1-Trichloroethane	9.31	97	908576	50.89	ug/l	99
34) tert-Amyl methyl ether (TA	9.56	73	1961592	55.72	ug/l	99
37) 1,1-Dichloropropene	9.50	77	345153	49.24	ug/l	99

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

Data File : D:\HPCHEM\1\data\06C29\RCC672.D

Vial: 3

Acq On : 30 Mar 2006 5:01 am

Operator: CGM

Sample : CVO67C2317

Inst : TO67

Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 5:31 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) Carbon tetrachloride	9.68	119	815618	49.67	ug/l	100
39) 1,2-Dichloroethane	9.81	62	787154	51.29	ug/l	100
40) Benzene	9.89	78	3324416	49.45	ug/l	99
41) Trichloroethene	10.72	130	932365	50.31	ug/l	98
43) 1,2-Dichloropropane	10.97	63	939591	51.73	ug/l	99
44) Bromodichloromethane	11.38	83	1019593	51.56	ug/l	100
45) Dibromomethane	11.50	93	568544	51.78	ug/l	97
46) 2-Chloroethyl vinyl ether	11.69	63	102791	37.66	ug/l	96
47) 4-Methyl-2-pentanone	11.73	43	2971911	212.07	ug/l	99
48) cis-1,3-Dichloropropene	12.21	75	1201223	51.83	ug/l	99
50) Toluene	12.84	91	3244578	50.13	ug/l	100
51) Ethyl methacrylate	12.90	69	859900	53.89	ug/l	98
52) trans-1,3-Dichloropropene	13.06	75	870279	52.12	ug/l	98
53) 1,1,2-Trichloroethane	13.40	97	717875	52.86	ug/l	99
54) 2-Hexanone	13.27	43	1777145	193.25	ug/l	100
55) 1,3-Dichloropropane	13.88	76	1199601	52.14	ug/l	100
56) Tetrachloroethene	14.10	164	624050	48.73	ug/l	100
57) Dibromochloromethane	14.52	129	826043	54.36	ug/l	100
58) 1,2-Dibromoethane	14.95	107	794988	52.95	ug/l	99
59) 1-Chlorohexane	15.07	91	1280421	51.50	ug/l	98
60) Chlorobenzene	15.82	112	2281409	51.10	ug/l	99
61) 1,1,1,2-Tetrachloroethane	15.86	131	742490	53.24	ug/l	98
62) Ethylbenzene	15.85	91	3592678	51.44	ug/l	100
63) m-Xylene & p-Xylene	16.01	91	5397426	103.02	ug/l	99
64) o-Xylene	17.02	91	2830596	52.56	ug/l	100
65) Styrene	17.10	104	2339174	53.79	ug/l	100
67) Bromoform	18.00	173	467857	52.15	ug/l	99
68) Isopropylbenzene	17.81	105	3184495	50.60	ug/l	99
69) 1,1,2,2-Tetrachloroethane	18.21	83	1037318	49.22	ug/l	100
71) 1,2,3-Trichloropropane	18.59	61	174808	49.80	ug/l	97
72) trans-1,4-Dichloro-2-buten	18.69	53	77975	43.45	ug/l	99
73) n-Propylbenzene	18.79	91	4185179	50.16	ug/l	100
74) Bromobenzene	19.03	156	830643	50.80	ug/l	98
75) 2-Chlorotoluene	19.32	91	2542324	48.60	ug/l	100
76) 1,3,5-Trimethylbenzene	19.17	105	2656210	51.96	ug/l	100
77) 4-Chlorotoluene	19.41	91	2372541	52.79	ug/l	100
78) tert-Butylbenzene	20.08	119	2346172	52.09	ug/l	99
79) 1,2,4-Trimethylbenzene	20.19	105	2525935	51.37	ug/l	99
80) sec-Butylbenzene	20.63	105	3736339	52.59	ug/l	100
81) p-Isopropyltoluene	20.95	119	2444702	52.45	ug/l	100
82) 1,3-Dichlorobenzene	21.31	146	1509795	50.05	ug/l	100

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

RCC672.D VO67C23.M

Thu Mar 30 05:31:46 2006

Page 2

2117

Data File : D:\HPCHEM\1\data\06C29\RCC672.D

Vial: 3

Acq On : 30 Mar 2006 5:01 am

Operator: CGM

Sample : CVO67C2317

Inst : TO67

Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA

Multiplr: 1.00

MS Integration Params: LSCINT.P

Quant Time: Mar 30 5:31 2006

Quant Results File: VO67C23.RES

Quant Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)

Title : METHOD 8260 5ml

Last Update : Tue Mar 28 09:22:46 2006

Response via : Initial Calibration

DataAcq Meth : VO67C23

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
83) 1,4-Dichlorobenzene	21.58	146	1487227	50.13	ug/l	100
84) n-Butylbenzene	22.04	91	2091840	42.54	ug/l	100
85) 1,2-Dichlorobenzene	22.59	146	1392288	51.17	ug/l	99
86) 1,2-Dibromo-3-chloropropan	24.68	157	118462	48.96	ug/l	98
87) 1,2,4-Trichlorobenzene	27.09	180	465453	40.41	ug/l	100
88) Hexachlorobutadiene	27.45	225	266204	50.10	ug/l	100
89) Naphthalene	27.85	128	869712	36.53	ug/l	100
90) 1,2,3-Trichlorobenzene	28.52	180	381480	40.46	ug/l	100

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

RCC672.D VO67C23.M Thu Mar 30 05:31:46 2006

Page 3

2118

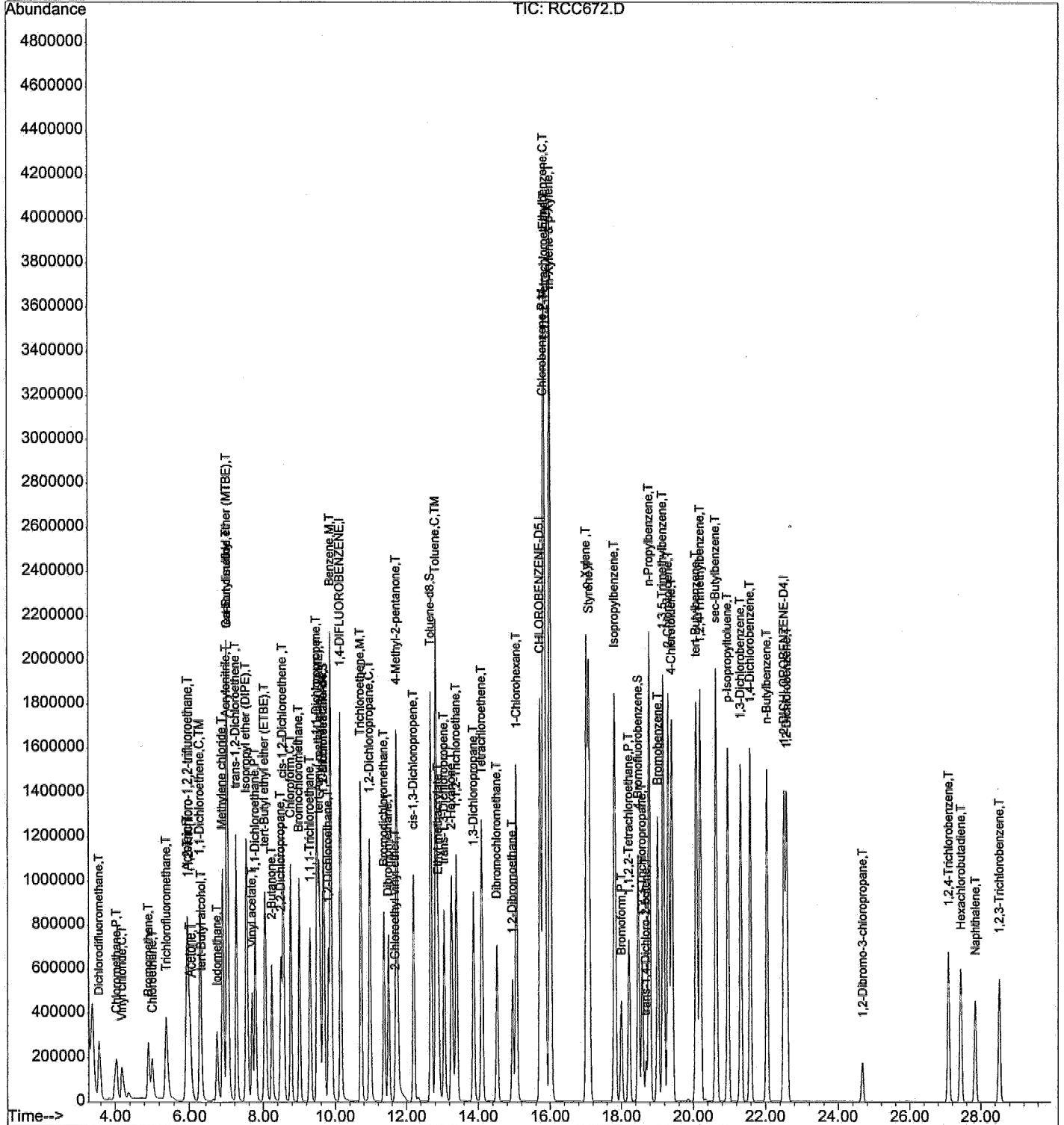
Quantitation Report

Data File : D:\HPCHEM\1\data\06C29\RCC672.D
 Acq On : 30 Mar 2006 5:01 am
 Sample : CVO67C2317
 Misc : 50ppb 8260/200ppb Ket-AA/250ppb TBA
 MS Integration Params: LSCINT.P
 Quant Time: Mar 30 5:31 2006

Vial: 3
 Operator: CGM
 Inst : TO67
 Multiplr: 1.00

Quant Results File: VO67C23.RES

Method : D:\HPCHEM\1\METHODS\VO67C23.M (RTE Integrator)
 Title : METHOD 8260 5ml
 Last Update : Tue Mar 28 09:22:46 2006
 Response via : Initial Calibration



ANALYTICAL LOG

ANALYSIS LOG FOR VOLATILES

SOP EMAX-8260 Rev.No. 2 EMAX-524.2 Rev.No. 3 EMAX-CLP-VOA EMAX 624 Rev.No. 1
 Start Date: 3/23/06 5-ml Purge 25-ml Purge Book # A67 -021

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix		Notes
					pH-W	S	
01	R00483	BFB67C32	2ul	NA	NA	NA	8 10 25
02	484	VOG7C23 1 x	109/20 107/09 104/10 15ml 3/23/06	NA	NA	NA	8 10 25
03	485	2 x					8 10 25
04	486	3 x					8 10 25
05	487	4 x					8 10 25
06	488	5 x					8 10 25
07	489	6 x					8 10 25
08	490	7 x					8 10 25
09	491	8 x					8 10 25
10	492	9 x					8 10 25
11	493	15/55 check					8 10 25
12	494	VOG7C32B					8 10 25
13	495	VOG7C2310					8 10 25
14	496	11 x					8 10 25
15	497	12 x					8 10 25
16	498	13 x					8 10 25
17	499	VOG7C23 1 x					8 10 25
18	500	2 x					8 10 25
19	501	RINSE					8 10 25
20							8 10 25
21							8 10 25
22							8 10 25
23							8 10 25
24							8 10 25
25							8 10 25

BATCH VOG7C23

Instrument No. 67		
INITIAL CALIBRATION REFERENCE		
DATE	3/23/06	
ICAL ID	VOG7C23	
STANDARDS		
NAME	ID	CONC (mg/L)
DCC	SVK-10-47-3	500
DCC	47-2	50/250
DCC	48-1	250
BFB	70-3	50
IS/SURR.	48-3	250
LCS	44-3	250
LCS	47-3	50/250
LCS	20-2	250
SOLVENT IS	SVK-10-49-1	ID 250 ppm
METHANOL S	6	25
DATA FILE	OG C23	
Electronic Data Archival		
Location	Date	
HPCHEM_VOA/TO67		

Comments:
 * Not valid for trans-1,4-Dichloro-2-butene.
 Analyzed By: CGM
 Date Disposed: 3/24/06
 Disposed By: CGM

ANALYSIS LOG FOR VOLATILES

SOP EMAX-8260 Rev.No. 2 EMAX-524.2 Rev.No. 3 EMAX-CLP-VOA EMAX 624 Rev.No. 1
 Start Date: 3/20/06 5-ml Purge 25-ml Purge Book # A67 -021

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix		Notes
					pH	S	
01	RCC670	BFB67046	2µL				04:25
02	671	↓ 47 ✓	↓				
03	672	CV06702317 ✓	2.5µL				
04	673	↓ 18	↓				
05	674	VOG7047L ✓	10µL	1.0			
06	675	↓ C1	↓				
07	676	↓ B	5.0µL				
08	677	↓ Q1	↓				
09	678	VOG7048B1	100µL	50			
10	679	↓ L1	10µL				
11	680	↓ C1	↓				
12	681	060476-07T	100µL				
13	682	↓ 08T	↓				
14	683	060222-04	5.0µL	1.0	22		
15	684	060222-02	↓				
16	685	060222-01	↓				
17	686	↓ 02	↓				
18	687	↓ 03	↓				
19	688	060222-01M	↓				
20	689	060222-01M	↓				
21	690	↓ 015	↓				
22							
23							
24							
25							CGM 3/30/06

BATCH CV06702317

Instrument No. 67		
INITIAL CALIBRATION REFERENCE		
DATE	3/23/06	
ICAL ID	VOG7023	
STANDARDS		
NAME	ID	CONC. (µg/L)
DCC	SMC-10-47-3	500
DCC	↓ 42-2	50/250
DCC	↓ 48-1	250
BFB	70-3	CGM 350/250
IS/SURR.	48-3	250
LCS	44-3	250
LCS	42-3	CGM 250
LCS	20-2	250
SOLVENT	ID	
METHANOL		
DATA FILE	060229	
Electronic Data Archival		
Location		Date
HPCHEM_VOA/T067		

Comments: _____

Analyzed By: CGM

Date Disposed: _____

Disposed By: _____

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND
TRAP

SDG#: 06C222

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C222

METHOD 5030B/8015B TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Four (4) water samples were received on 03/24/06 for Total Petroleum Hydrocarbons by purge and trap analysis by Method 5030B/8015B in accordance with SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. Water samples were preserved.

2. Calibration

Initial calibration was seven points. %RSDs were within 20%. Continuing calibrations were carried out every 12 hours and at the end of the analysis sequence. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

All recoveries were within QC limits.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

Sample C222-01 was spiked. All recoveries were within QC limits.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met. Results were quantified from C6 to C10 using GRO (C6-C10) calibration factor.

Discrete peak(s) found in sample C222-03 was not reported.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG NO. : 06C222
Instrument ID : GCT039

Client : ENSR
Project : UPGRADE INVESTIGATION, TRONOX

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	WATER		Extraction Date/Time	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
				Analysis Date/Time	Extraction Date/Time					
M-117	VA39C13Q	1	NA	03/24/0616:06	03/24/0616:06	EC24010A	EC24007A	VA39C13	Method Blank	
M-117	VA39C14L	1	NA	03/24/0618:00	03/24/0618:00	EC24013A	EC24007A	VA39C13	Lab Control Sample (LCS)	
M-117	VA39C14C	1	NA	03/24/0618:38	03/24/0618:38	EC24014A	EC24007A	VA39C13	LCS Duplicate	
M-117	C222-01	1	NA	03/25/0602:15	03/25/0602:15	EC24026A	EC24022A	VA39C13	Field Sample	
M-117	C222-02	1	NA	03/25/0604:09	03/25/0604:09	EC24029A	EC24022A	VA39C13	Field Sample	
M-117	C222-03	1	NA	03/25/0604:47	03/25/0604:47	EC24030A	EC24022A	VA39C13	Field Sample	
M-117	C222-04	1	NA	03/25/0605:25	03/25/0605:25	EC24031A	EC24022A	VA39C13	Field Sample	
M-121MS	C222-01M	1	NA	03/25/0602:53	03/25/0602:53	EC24027A	EC24022A	VA39C13	Matrix Spike Sample (MS)	
M-121MSD	C222-01S	1	NA	03/25/0603:31	03/25/0603:31	EC24028A	EC24022A	VA39C13	MS Duplicate (MSD)	

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : ENSR                      Date Collected: 03/23/06
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No.   : 06C222                   Date Extracted: 03/25/06 02:15
Sample ID   : M-121                    Date Analyzed: 03/25/06 02:15
Lab Samp ID: C222-01                   Dilution Factor: 1
Lab File ID: EC24026A                  Matrix          : WATER
Ext Btch ID: VA39C13                   % Moisture      : NA
Calib. Ref.: EC24022A                   Instrument ID    : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	91	60-140

RL : Reporting Limit
 Parameter H-C Range
 GRO C6-C10

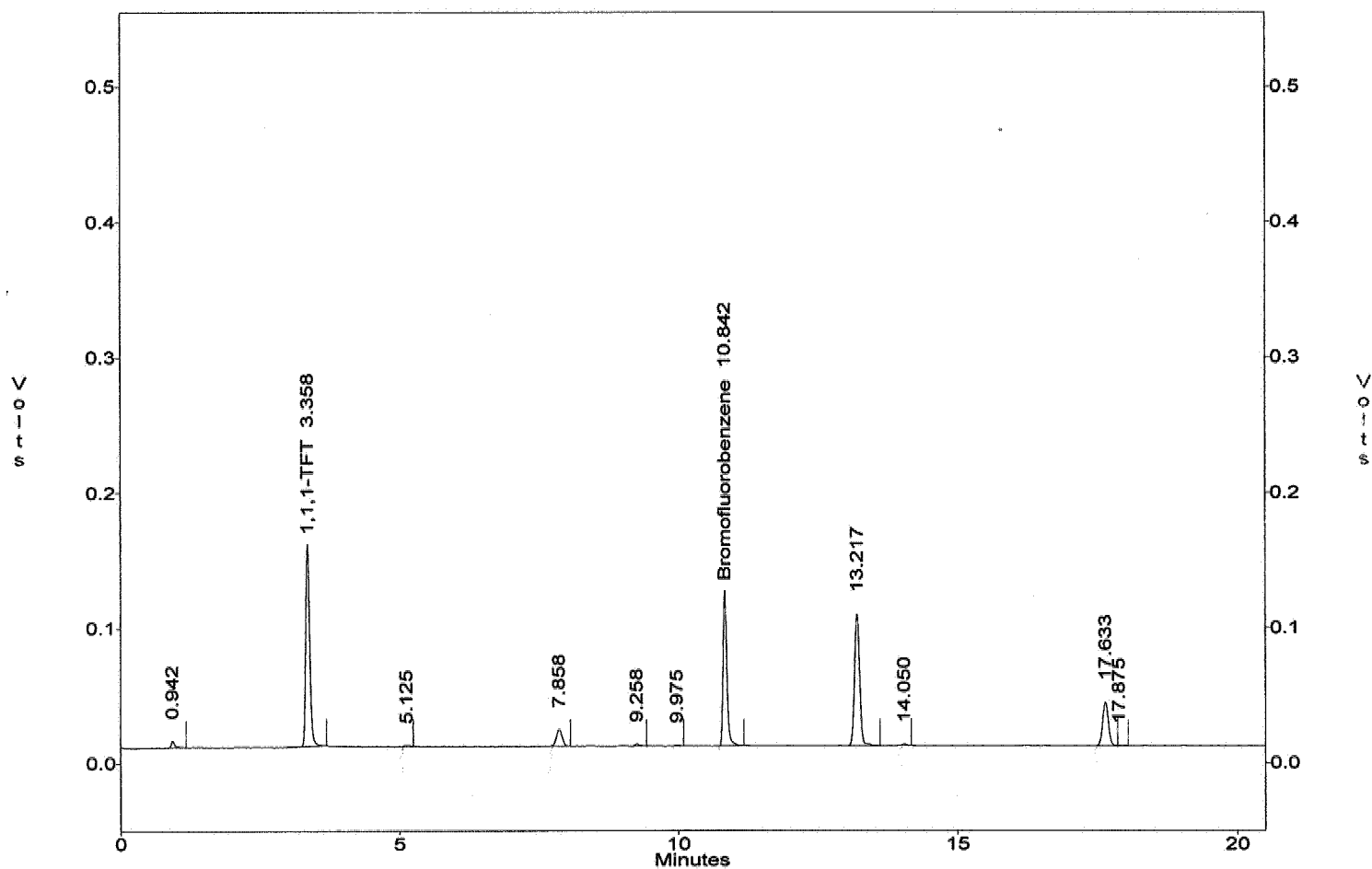
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\ec24.026
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : 06C222-01 5.0ML W
Acquired : Mar 25, 2006 02:15:09
Printed : Mar 27, 2006 17:02:18
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
2	1,1,1-TFT	3.358	756319.0	21531.8	35.13
7	Bromofluorobenzene	10.842	545134.0	15026.0	36.28
G1	GASOLINE (TOTAL)		962456.0	15352.4	62.69
G2	GRO (C6-C10)		105355.0	12418.6	8.48
G3	GRO (2MP-124TMB)		105355.0	12455.2	8.46
G4	GRO (C5-C12)		962456.0	15149.8	63.53
G5	DISCRETE PK (7.858)		88064.0	0.0	0.00
G6	DSCRT PEAK (13.217)		619211.0	0.0	0.00
G7	DSCRT PEAK (17.633)		229514.0	0.0	0.00

c:\ezchrom\chrom\ec24\ec24.026 -- Channel A



METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : ENSR                      Date Collected: 03/23/06
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No.   : 06C222                   Date Extracted: 03/25/06 04:09
Sample ID   : M-117                     Date Analyzed: 03/25/06 04:09
Lab Samp ID: C222-02                    Dilution Factor: 1
Lab File ID: EC24029A                   Matrix          : WATER
Ext Btch ID: VA39C13                    % Moisture      : NA
Calib. Ref.: EC24022A                    Instrument ID   : GCT039
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	92	60-140

RL : Reporting Limit
Parameter H-C Range
GRO C6-C10

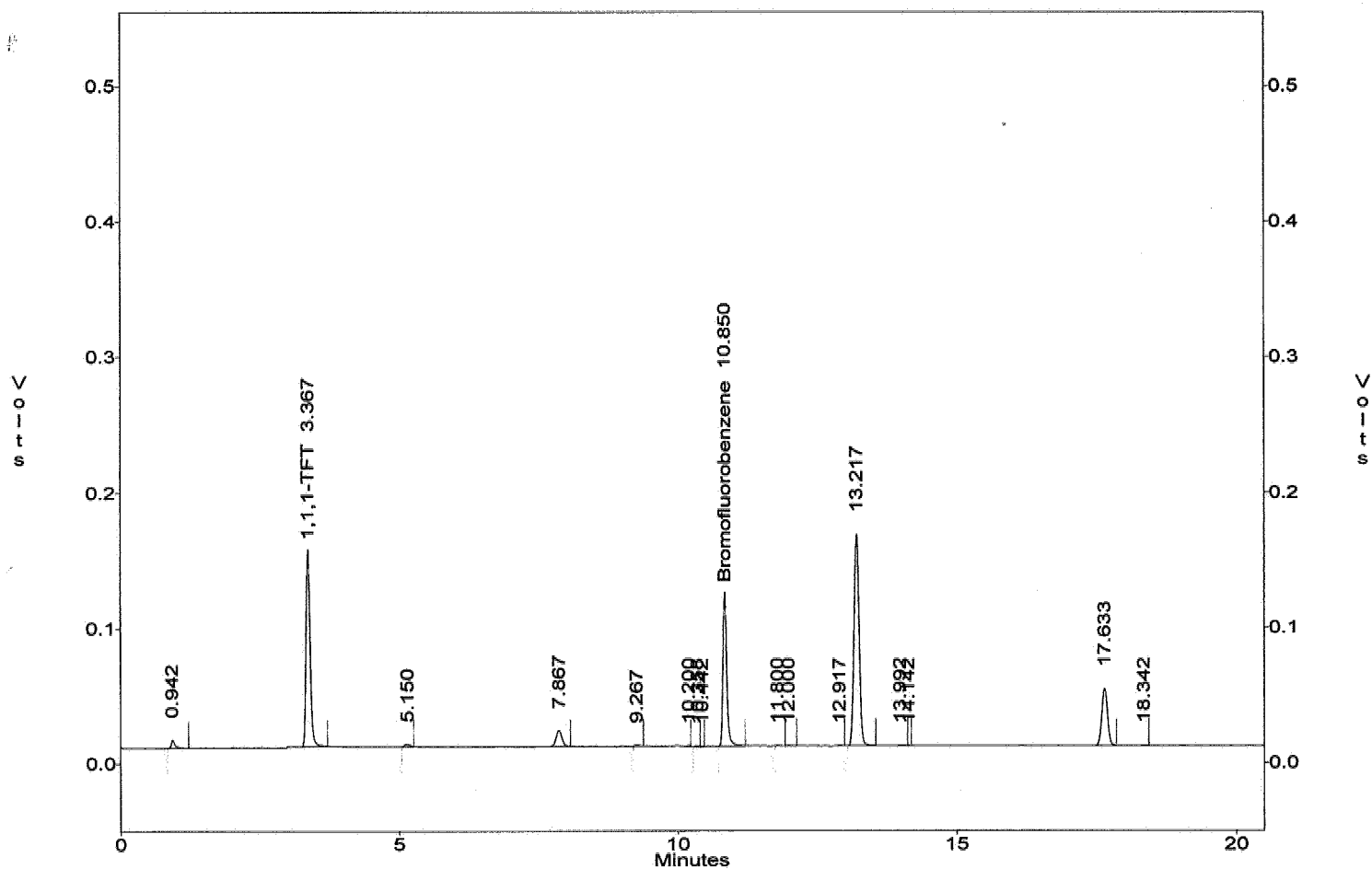
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\ec24.029
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : 06C222-02 5.0ML W
Acquired : Mar 25, 2006 04:09:10
Printed : Mar 27, 2006 17:02:50
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
2	1,1,1-TFT	3.367	747653.0	21531.8	34.72
9	Bromofluorobenzene	10.850	550486.0	15026.0	36.64
G1	GASOLINE (TOTAL)		1408951.0	15352.4	91.77
G2	GRO (C6-C10)		116975.0	12418.6	9.42
G3	GRO (2MP-124TMB)		116975.0	12455.2	9.39
G4	GRO (C5-C12)		1408951.0	15149.8	93.00
G5	DISCRETE PK (7.858)		86147.0	0.0	0.00
G6	DSCRT PEAK (13.217)		984317.0	0.0	0.00
G7	DSCRT PEAK (17.633)		301153.0	0.0	0.00

c:\ezchrom\chrom\ec24\ec24.029 -- Channel A



METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : ENSR                      Date Collected: 03/23/06
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No.   : 06C222                   Date Extracted: 03/25/06 04:47
Sample ID   : H-11                      Date Analyzed: 03/25/06 04:47
Lab Samp ID: C222-03                   Dilution Factor: 1
Lab File ID: EC24030A                  Matrix          : WATER
Ext Btch ID: VA39C13                   % Moisture      : NA
Calib. Ref.: EC24022A                  Instrument ID    : GCT039
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO **	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	93	60-140

RL : Reporting Limit
Parameter H-C Range
GRO C6-C10

** : Discrete peak(s) was not reported

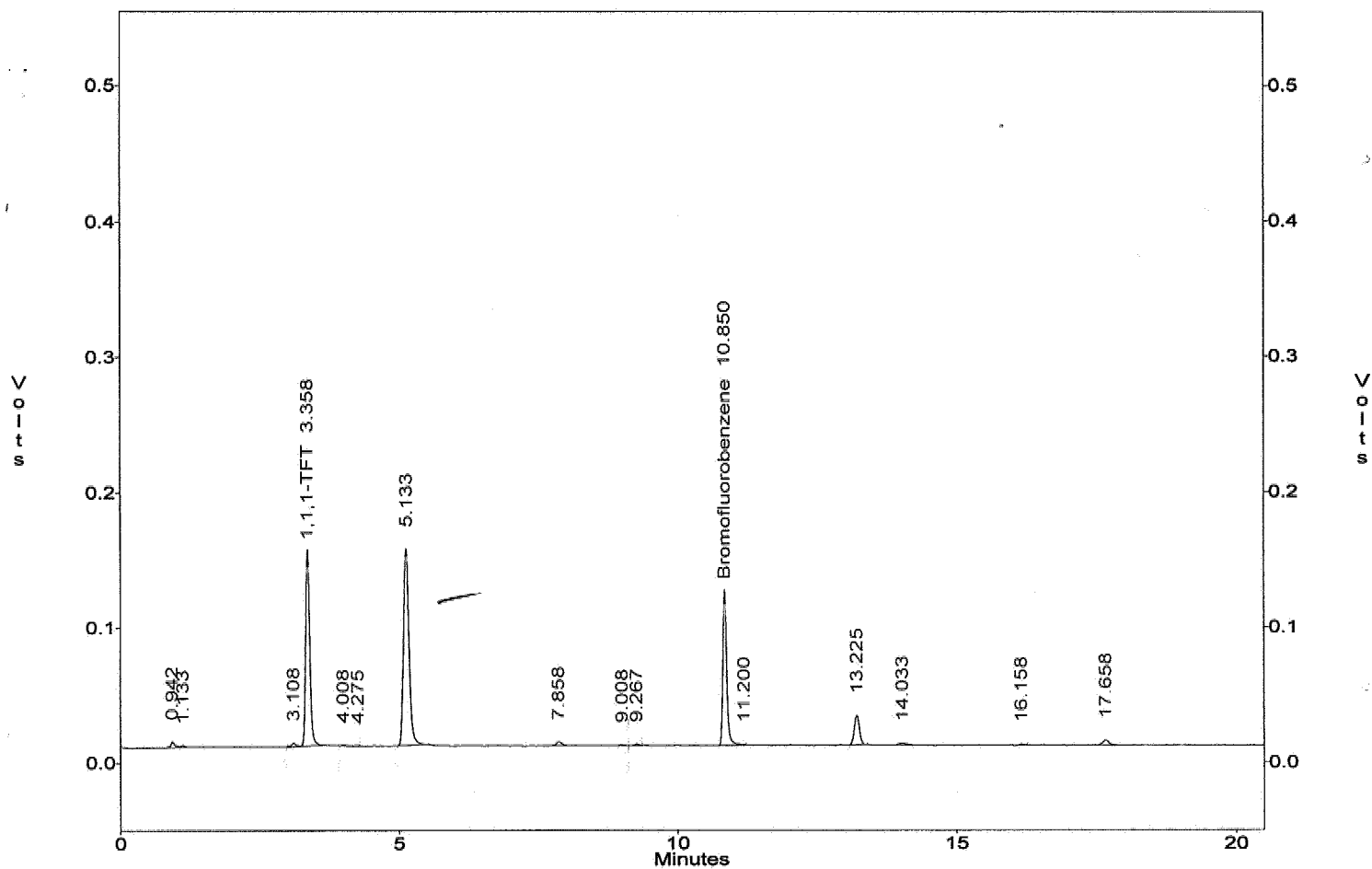
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\Ec24.030
Method : c:\ezchrom\methods\Vg39c03.met
Sample ID : 06C222-03 5.0ML W
Acquired : Mar 25, 2006 04:47:17
Printed : Mar 25, 2006 05:07:49
User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
4	1,1,1-TFT	3.358	761119.0	21531.8	35.35
11	Bromofluorobenzene	10.850	559245.0	15026.0	37.22
G1	GASOLINE (TOTAL)		1223238.0	15352.4	79.68
G2	GRO (C6-C10)		1034563.0	12418.6	83.31
G3	GRO (2MP-124TMB)		1034563.0	12455.2	83.06
G4	GRO (C5-C12)		1223238.0	15149.8	80.74

c:\ezchrom\chrom\ec24\Ec24.030 -- Channel A



METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : ENSR                      Date Collected: 03/23/06
Project    : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No.  : 06C222                    Date Extracted: 03/25/06 05:25
Sample ID  : TRIP BLANK                 Date Analyzed: 03/25/06 05:25
Lab Samp ID: C222-04                    Dilution Factor: 1
Lab File ID: EC24031A                   Matrix          : WATER
Ext Btch ID: VA39C13                    % Moisture      : NA
Calib. Ref.: EC24022A                    Instrument ID   : GCT039
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	93	60-140

RL : Reporting Limit
Parameter H-C Range
GRO C6-C10

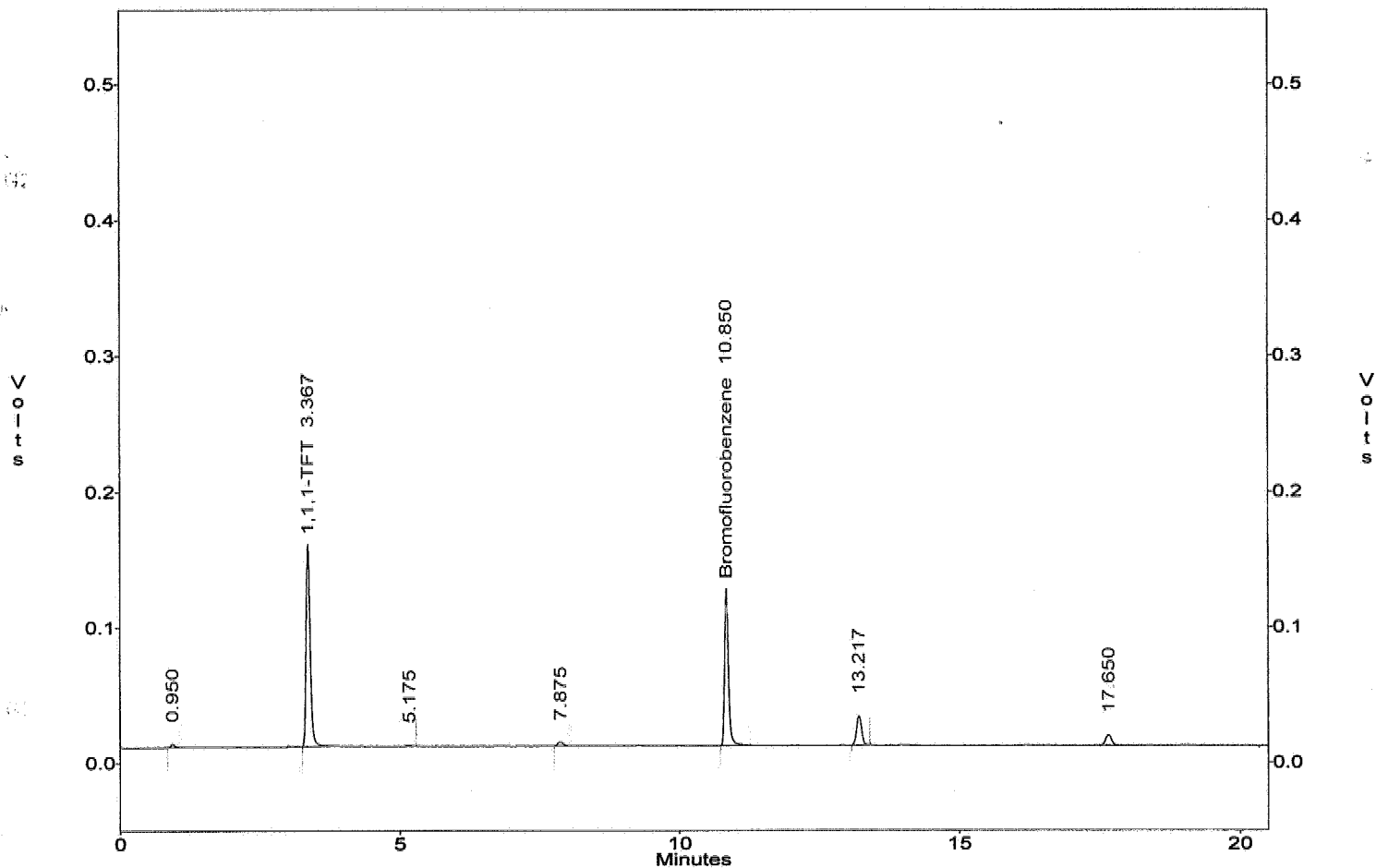
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\Ec24.031
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : 06C222-04 5.0ML W
 Acquired : Mar 25, 2006 05:25:13
 Printed : Mar 25, 2006 05:45:44
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
2	1,1,1-TFT	3.367	766401.0	21531.8	35.59
5	Bromofluorobenzene	10.850	556926.0	15026.0	37.06
G1	GASOLINE (TOTAL)		213923.0	15352.4	13.93
G2	GRO (C6-C10)		24510.0	12418.6	1.97
G3	GRO (2MP-124TMB)		24510.0	12455.2	1.97
G4	GRO (C5-C12)		213923.0	15149.8	14.12

c:\ezchrom\chrom\ec24\Ec24.031 -- Channel A



QC SUMMARIES

METHOD 5030B/8015B
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : ENSR                      Date Collected: NA
Project    : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No.  : 06C222                     Date Extracted: 03/24/06 16:06
Sample ID  : MBLK1W                      Date Analyzed: 03/24/06 16:06
Lab Samp ID: VA39C13Q                    Dilution Factor: 1
Lab File ID: EC24010A                     Matrix      : WATER
Ext Btch ID: VA39C13                      % Moisture  : NA
Calib. Ref.: EC24007A                     Instrument ID : GCT039
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
GRO	ND	.1	.02

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	95	70-130

RL : Reporting Limit
Parameter H-C Range
GRO C6-C10

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: METHOD 5030B/8015B

=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: VA39C13Q VA39C14L VA39C14C
LAB FILE ID: EC24010A EC24013A EC24014A
DATE EXTRACTED: 03/24/0616:06 03/24/0618:00 03/24/0618:38 DATE COLLECTED: NA
DATE ANALYZED: 03/24/0616:06 03/24/0618:00 03/24/0618:38 DATE RECEIVED: 03/24/06
PREP. BATCH: VA39C13 VA39C13 VA39C13
CALIB. REF: EC24007A EC24007A EC24007A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
GRO	ND	.5	.523	105	.5	.533	107	2	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	.04	.0444	111	.04	.0435	109	70-130

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: METHOD 5030B/8015B

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1
SAMPLE ID: M-121
LAB SAMP ID: C222-01 C222-01M C222-01S
LAB FILE ID: EC24026A EC24027A EC24028A
DATE EXTRACTED: 03/25/0602:15 03/25/0602:53 03/25/0603:31 DATE COLLECTED: 03/23/06
DATE ANALYZED: 03/25/0602:15 03/25/0602:53 03/25/0603:31 DATE RECEIVED: 03/24/06
PREP. BATCH: VA39C13 VA39C13 VA39C13
CALIB. REF: EC24022A EC24022A EC24022A

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
GRO	ND	.5	.505	101	.5	.469	94	7	50-130	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
Bromofluorobenzene	.04	.0406	102	.04	.0383	96	60-140

QC DATA

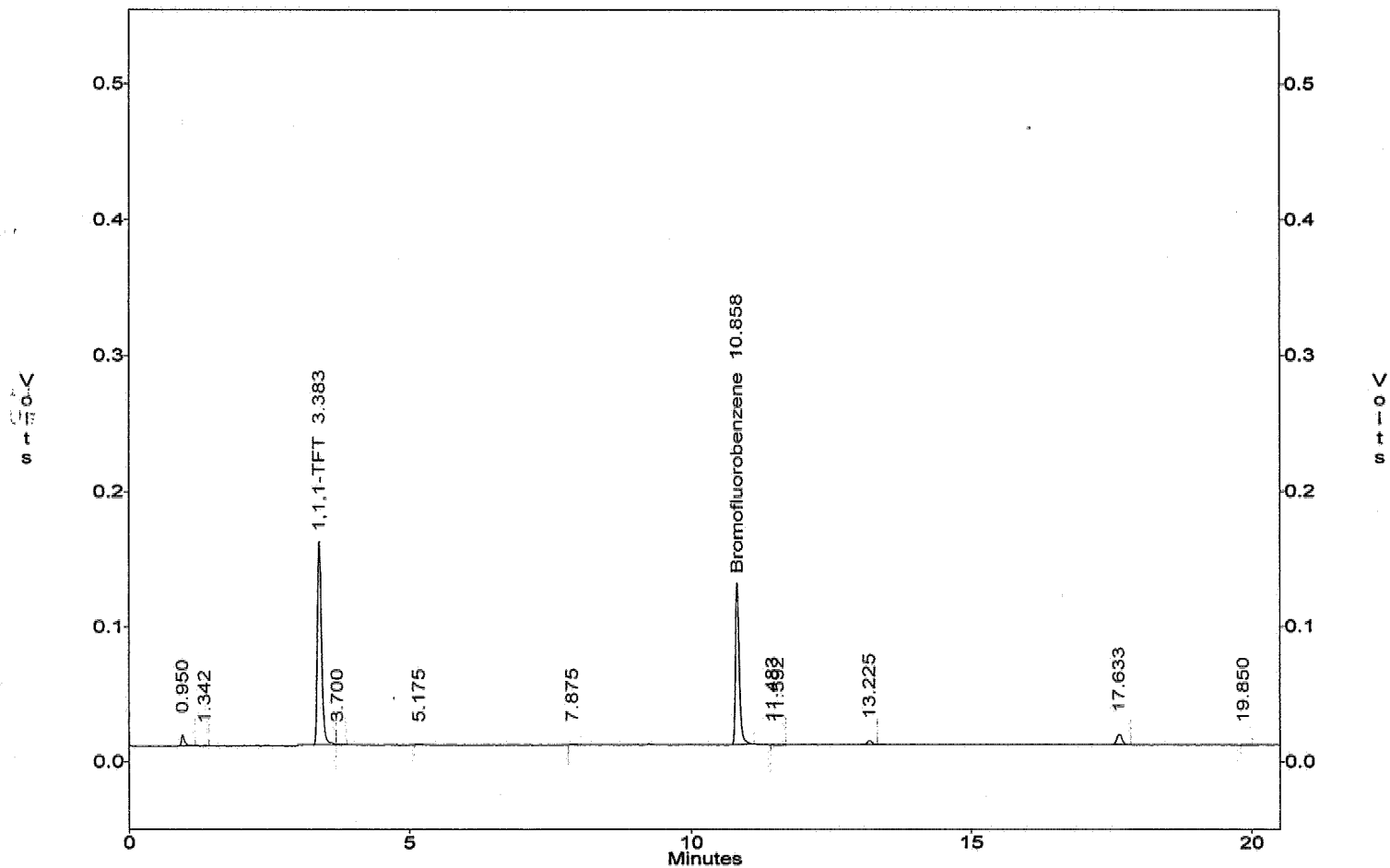
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\Ec24.010
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : VA39C13Q 5.0ML W
 Acquired : Mar 24, 2006 16:06:17
 Printed : Mar 24, 2006 16:26:48
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
3	1,1,1-TFT	3.383	790480.0	21531.8	36.71
7	Bromofluorobenzene	10.858	572925.0	15026.0	38.13
G1	GASOLINE (TOTAL)		89161.0	15352.4	5.81
G2	GRO (C6-C10)		20049.0	12418.6	1.61
G3	GRO (2MP-124TMB)		20049.0	12455.2	1.61
G4	GRO (C5-C12)		86316.0	15149.8	5.70

c:\ezchrom\chrom\ec24\Ec24.010 -- Channel A



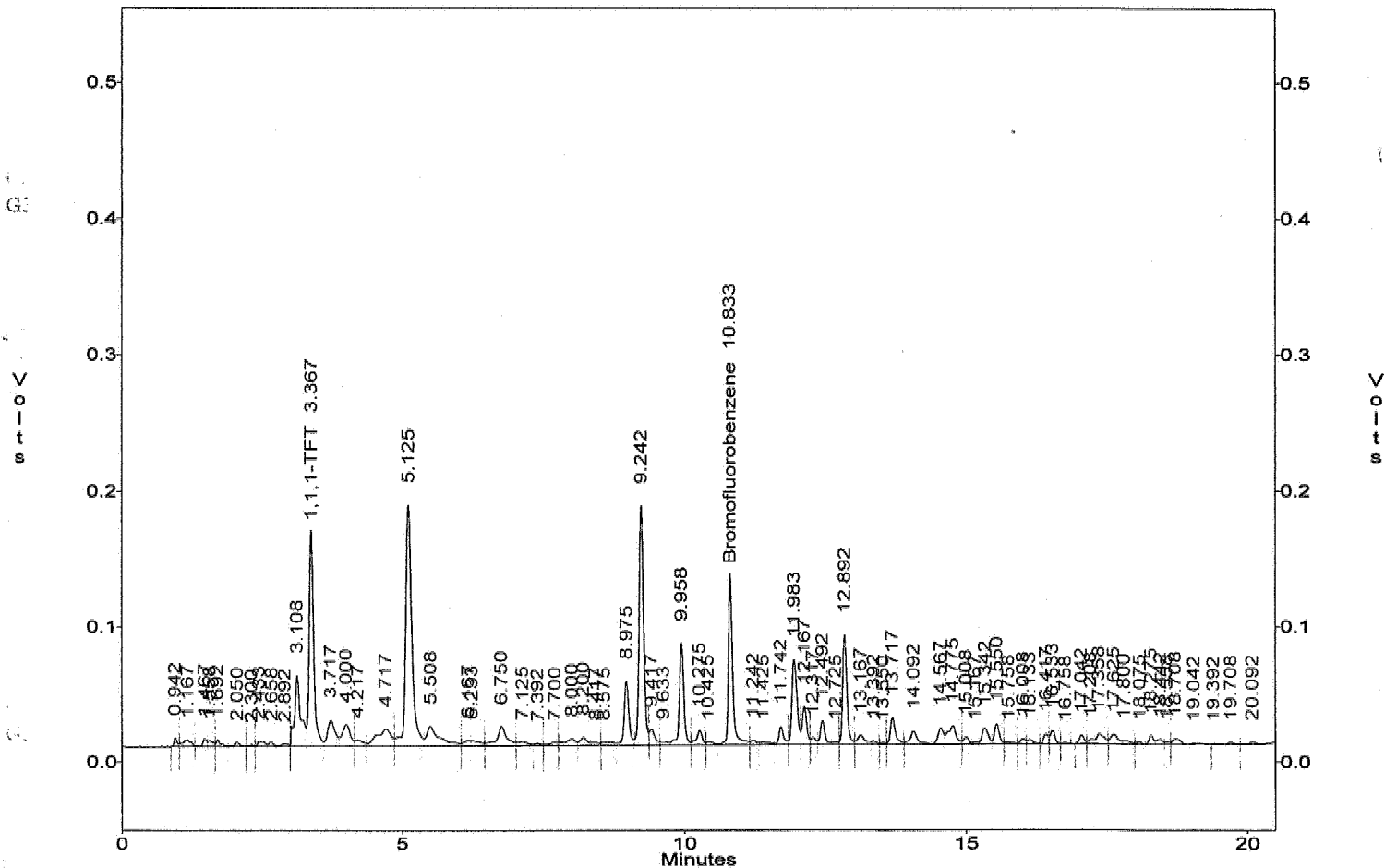
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\Ec24.013
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : VA39C14L 5.0ML W
 Acquired : Mar 24, 2006 18:00:49
 Printed : Mar 24, 2006 18:21:21
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
12	1,1,1-TFT	3.367	896680.0	21531.8	41.64
36	Bromofluorobenzene	10.833	666501.0	15026.0	44.36
G1	GASOLINE (TOTAL)		7835352.0	15352.4	510.37
G2	GRO (C6-C10)		6493044.0	12418.6	522.85
G3	GRO (2MP-124TMB)		6481727.0	12455.2	520.40
G4	GRO (C5-C12)		7803848.0	15149.8	515.11

c:\ezchrom\chrom\ec24\Ec24.013 - Channel A



METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

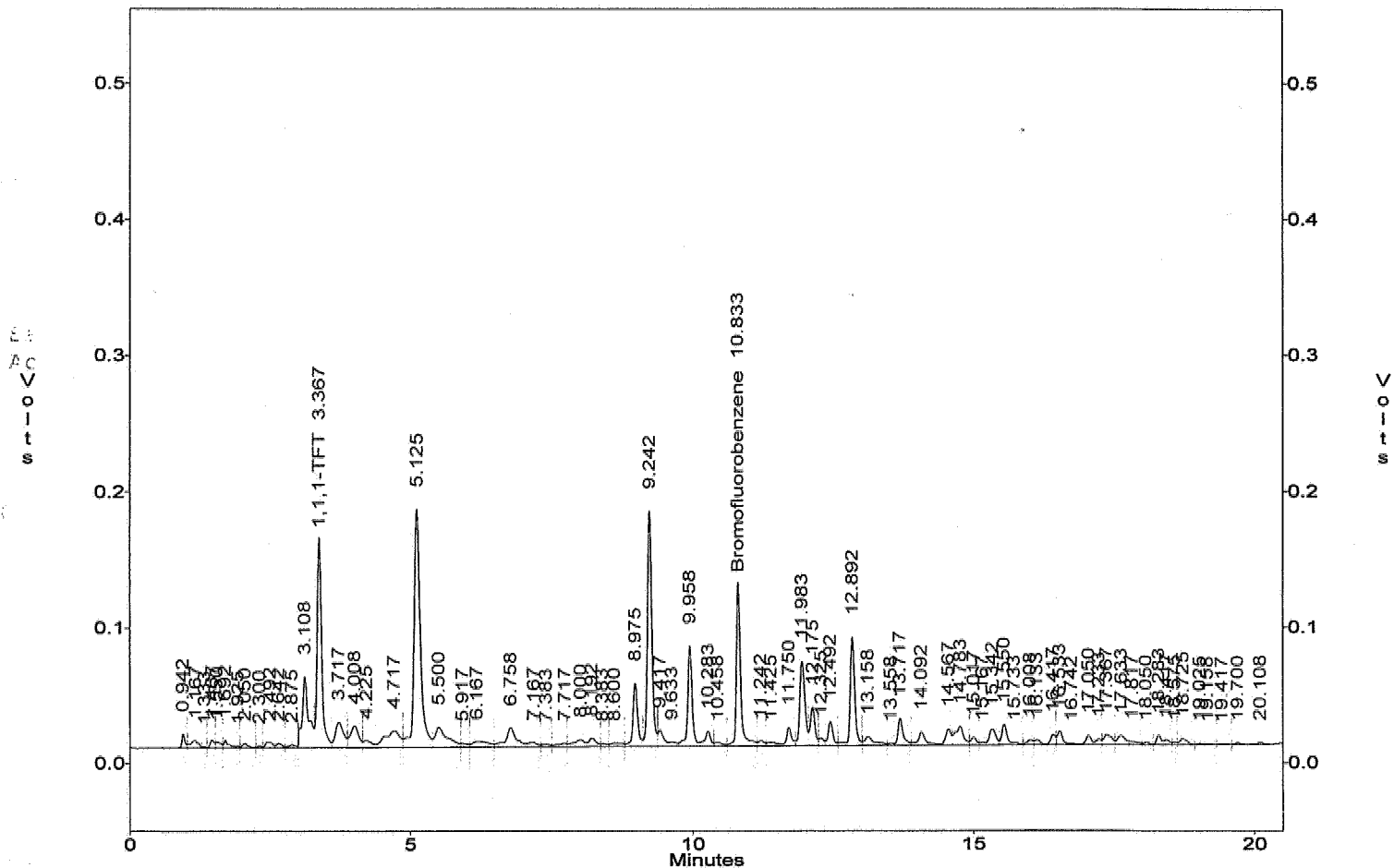
File : c:\ezchrom\chrom\ec24\Ec24.014
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : VA39C14C 5.0ML W
 Acquired : Mar 24, 2006 18:38:56
 Printed : Mar 24, 2006 18:59:28
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
14	1,1,1-TFT	3.367	879110.0	21531.8	40.83
38	Bromofluorobenzene	10.833	653299.0	15026.0	43.48
G1	GASOLINE (TOTAL)		8023483.0	15352.4	522.62
G2	GRO (C6-C10)		6613388.0	12418.6	532.54
G3	GRO (2MP-124TMB)		6588129.0	12455.2	528.94
G4	GRO (C5-C12)		7980269.0	15149.8	526.76

EF
AC

c:\ezchrom\chrom\ec24\Ec24.014 -- Channel A



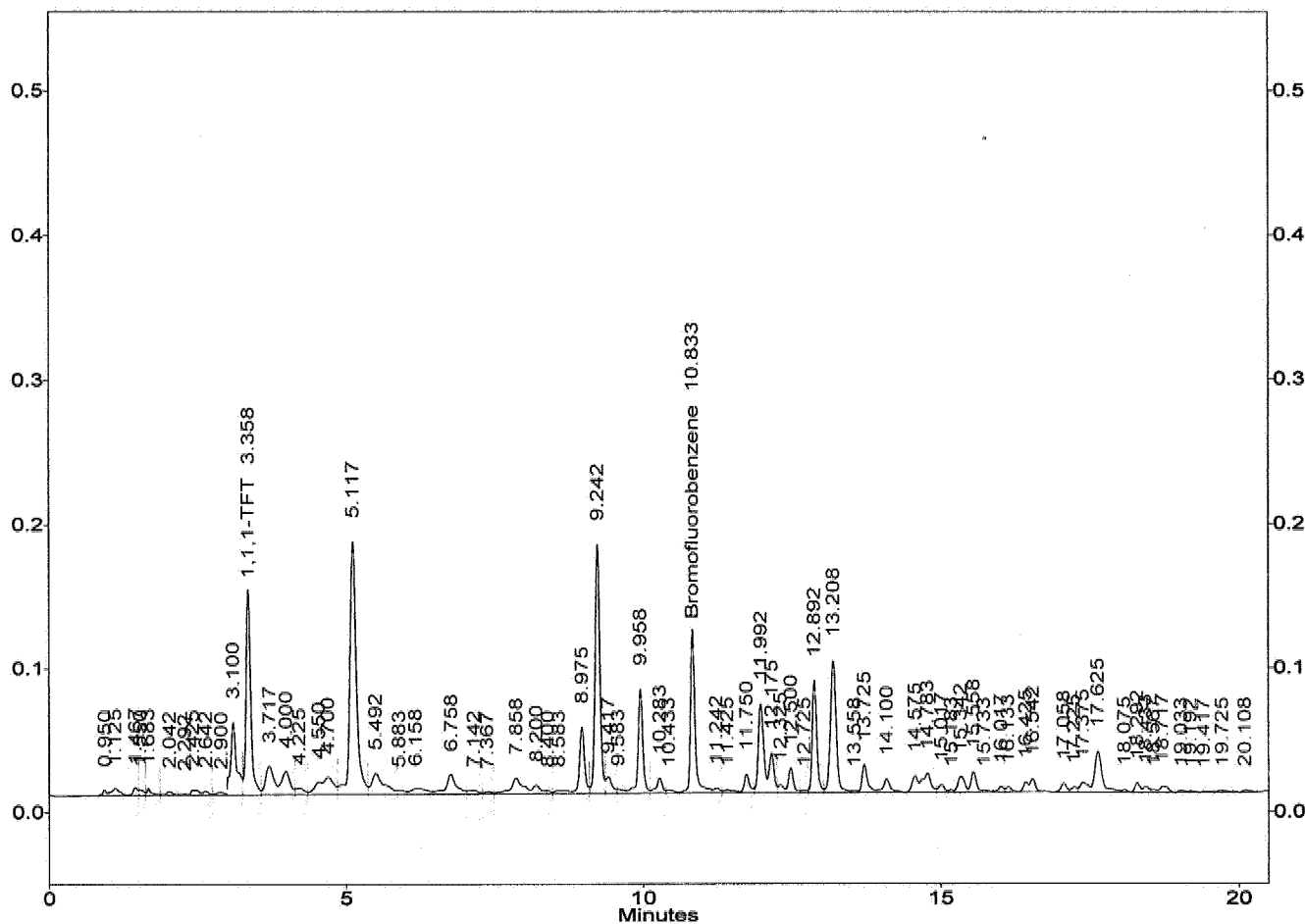
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\Ec24.027
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : 06C222-01M 5.0ML W
 Acquired : Mar 25, 2006 02:53:09
 Printed : Mar 25, 2006 03:13:41
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
12	1,1,1-TFT	3.358	800027.0	21531.8	37.16
36	Bromofluorobenzene	10.833	610193.0	15026.0	40.61
G1	GASOLINE (TOTAL)		8313202.0	15352.4	541.49
G2	GRO (C6-C10)		6274498.0	12418.6	505.25
G3	GRO (2MP-124TMB)		6324497.0	12455.2	507.78
G4	GRO (C5-C12)		8214979.0	15149.8	542.25

Ch: c:\ezchrom\chrom\ec24\Ec24.027 -- Channel A



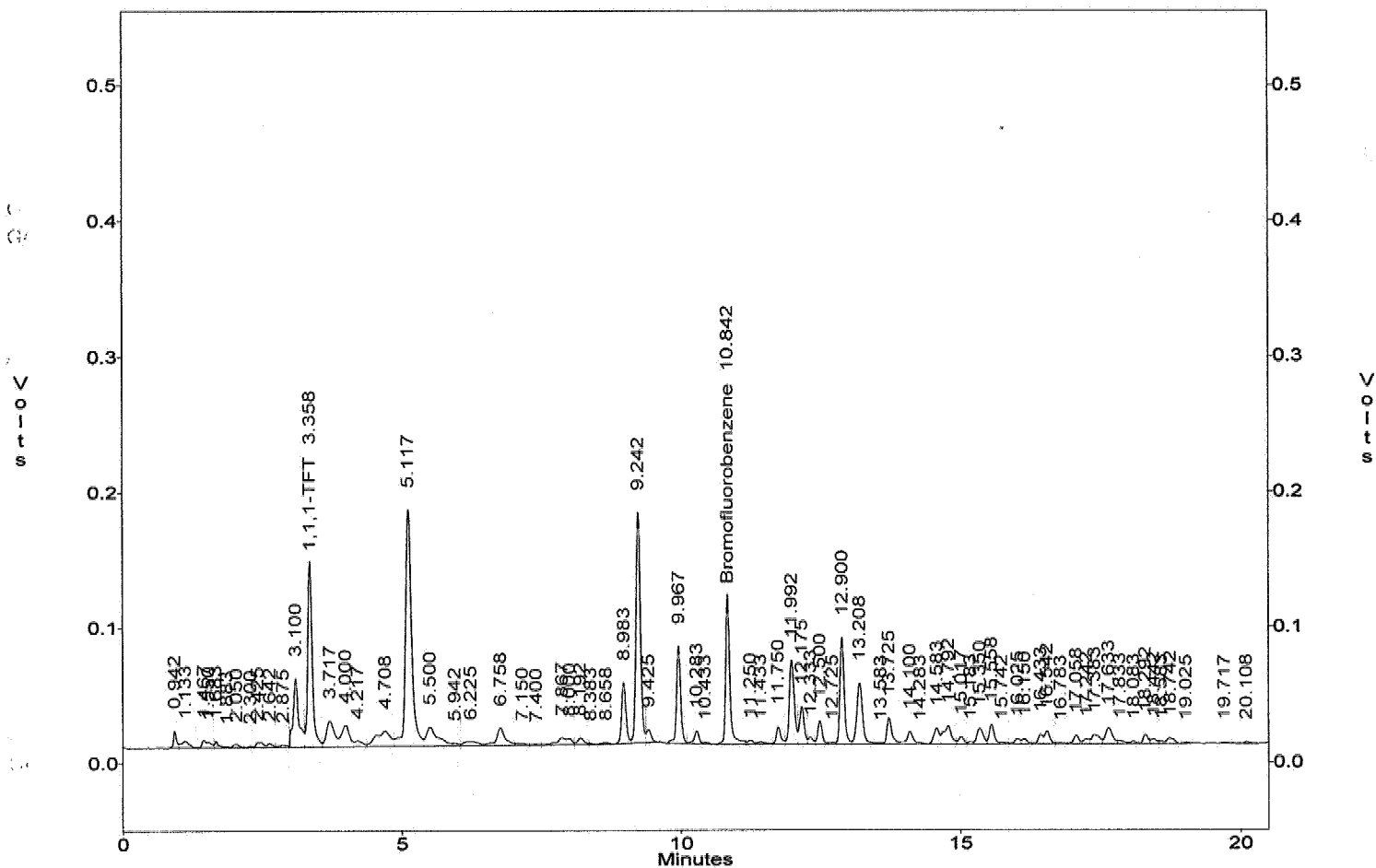
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\Ec24.028
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : 06C222-01S 5.0ML W
 Acquired : Mar 25, 2006 03:31:02
 Printed : Mar 25, 2006 03:51:34
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
13	1,1,1-TFT	3.358	768824.0	21531.8	35.71
36	Bromofluorobenzene	10.842	575014.0	15026.0	38.27
G1	GASOLINE (TOTAL)		7462496.0	15352.4	486.08
G2	GRO (C6-C10)		5827348.0	12418.6	469.24
G3	GRO (2MP-124TMB)		5879456.0	12455.2	472.05
G4	GRO (C5-C12)		7439298.0	15149.8	491.05

c:\ezchrom\chrom\ec24\Ec24.028 -- Channel A



INITIAL CALIBRATION

INITIAL CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 LFID & Datetime: EC03019A 03/03/06 23:46 ✓
 LFID & Datetime: EC03020A 03/04/06 00:24 ✓
 LFID & Datetime: EC03021A 03/04/06 01:02 ✓
 LFID & Datetime: EC03022A 03/04/06 01:40 ✓
 LFID & Datetime: EC03023A 03/04/06 02:18 ✓
 LFID & Datetime: EC03024A 03/04/06 02:57 ✓
 LFID & Datetime: EC03025A 03/04/06 03:35 ✓
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS						(AREA)/UNIT		MEAN	%RSD
		1.00X	2.50X	5.00X	25.00X	50.00X	100.00X	150.00X			
Gasoline(TOTAL)	20.00	✓ 12417	✓ 13454	✓ 15665	✓ 15778	✓ 16779	✓ 16708	✓ 16666	✓ 15352.4	11.3	✓
GRO(C6-C10)	20.00	✓ 9660	✓ 10361	✓ 13007	✓ 12779	✓ 13750	✓ 13695	✓ 13678	✓ 12418.6	13.7	✓
GRO(2MP-124TMB)	20.00	✓ 9660	✓ 10361	✓ 13148	✓ 12809	✓ 13777	✓ 13723	✓ 13709	✓ 12455.2	13.8	✓
GRO(C5-C12)	20.00	✓ 11591	✓ 13210	✓ 15575	✓ 15708	✓ 16713	✓ 16645	✓ 16607	✓ 15149.8	13.1	✓
SURROGATE	X	1.00X	2.00X	3.00X	4.00X	5.00X	7.50X	10.00X	MEAN	%RSD	
Bromofluorobenzene	10.00	✓ 12063	✓ 13106	✓ 13108	✓ 14879	✓ 17078	✓ 17312	✓ 17635	✓ 15026.0	15.5	✓
1,1,1-Trifluorotoluene	10.00	✓ 17166	✓ 19380	✓ 19227	✓ 21362	✓ 23275	✓ 24612	✓ 25700	✓ 21531.8	14.6	✓

VG39C03.MET

AA
03/06/06

4023

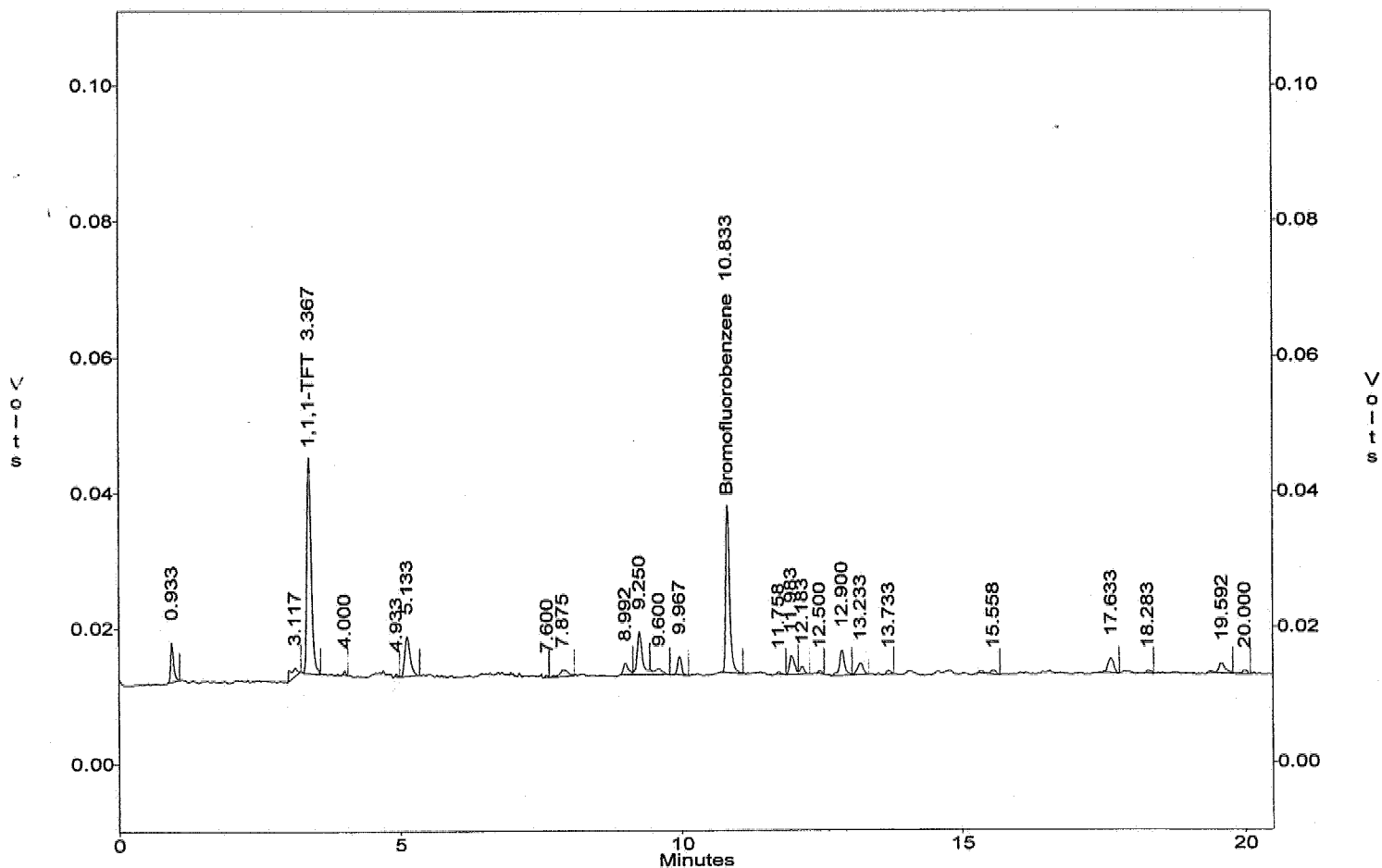
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.019 ✓
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-01 20/10
 Acquired : Mar 03, 2006 23:46:19 ✓
 Printed : Mar 06, 2006 12:14:18
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
3	1,1,1-TFT	3.367	171660.0	21531.8 ✓	10.00
13	Bromofluorobenzene	10.833	120632.0	15026.0 ✓	10.00
G1	GASOLINE (TOTAL)		248347.0	15352.4 ✓	20.00
G2	GRO (C6-C10)		193196.0	12418.6 ✓	20.00
G3	GRO (2MP-124TMB)		193196.0	12455.2 ✓	20.00
G4	GRO (C5-C12)		231819.0	15149.8 ✓	20.00

c:\ezchrom\chrom\ec03\ec03.019 -- Channel A



At
03/06/06
4024

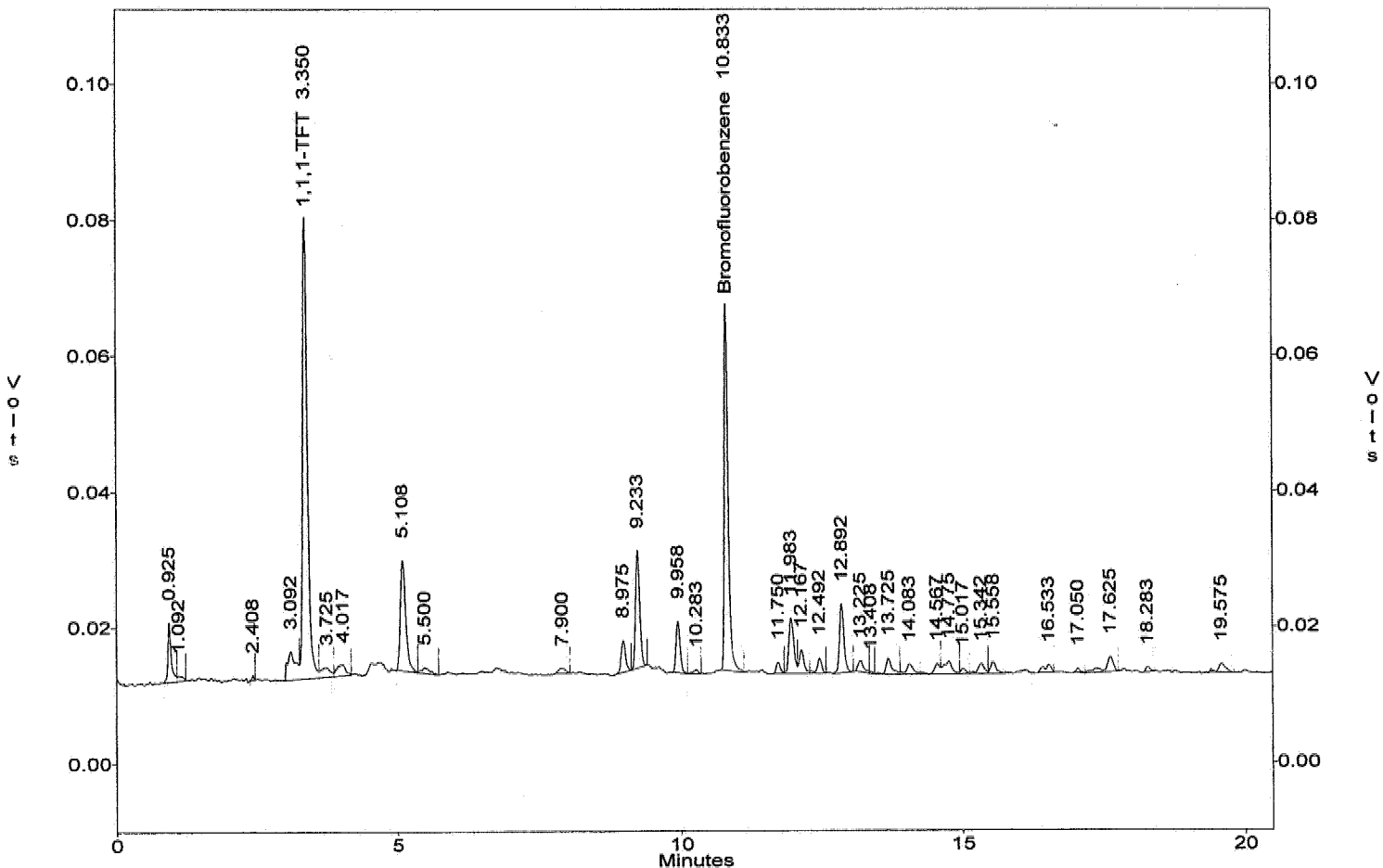
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.020 ✓
 Method : c:\ezchrom\methods\vg39c03.met ✓
 Sample ID : VG39C03-02 50/20
 Acquired : Mar 04, 2006 00:24:42 ✓
 Printed : Mar 06, 2006 12:14:41
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
5	1,1,1-TFT	3.350	387603.0	21531.8	20.00
15	Bromofluorobenzene	10.833	262122.0	15026.0	20.00
G1	GASOLINE (TOTAL)		672683.0	15352.4	50.00
G2	GRO (C6-C10)		518064.0	12418.6	50.00
G3	GRO (2MP-124TMB)		518064.0	12455.2	50.00
G4	GRO (C5-C12)		660488.0	15149.8	50.00

c:\ezchrom\chrom\ec03\ec03.020 -- Channel A



RS
03/06/06
4025

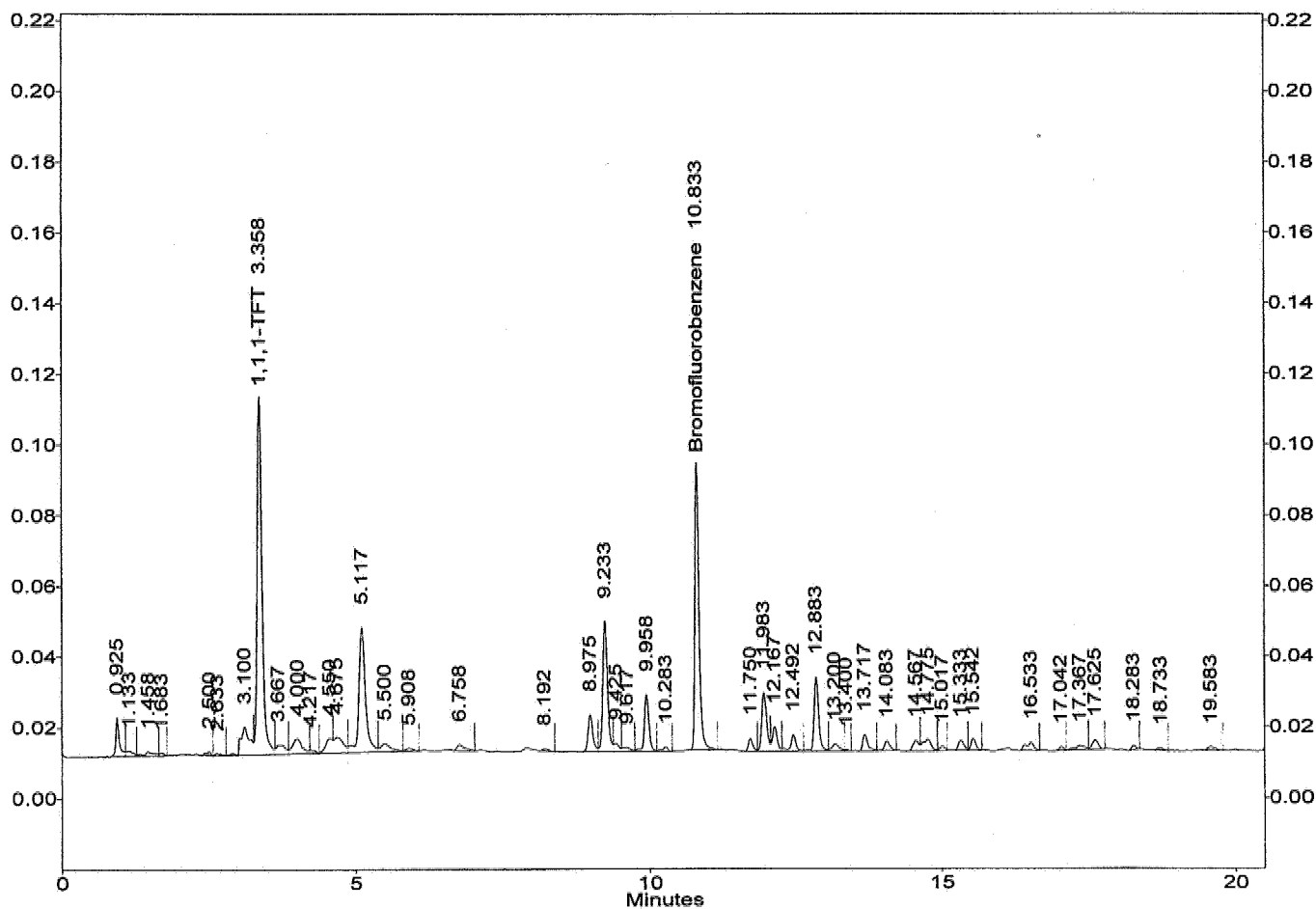
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.021 ✓
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-03 100/30
 Acquired : Mar 04, 2006 01:02:51 ✓
 Printed : Mar 06, 2006 12:17:19
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
8	1,1,1-TFT	3.358	576813.0	21531.8	30.00
25	Bromofluorobenzene	10.833	393242.0	15026.0	30.00
G1	GASOLINE (TOTAL)		1566460.0	15352.4	100.00
G2	GRO (C6-C10)		1300710.0	12418.6	100.00
G3	GRO (2MP-124TMB)		1314789.0	12455.2	100.00
G4	GRO (C5-C12)		1557478.0	15149.8	100.00

c:\ezchrom\chrom\ec03\ec03.021 -- Channel A



AS
03/06/06
4026

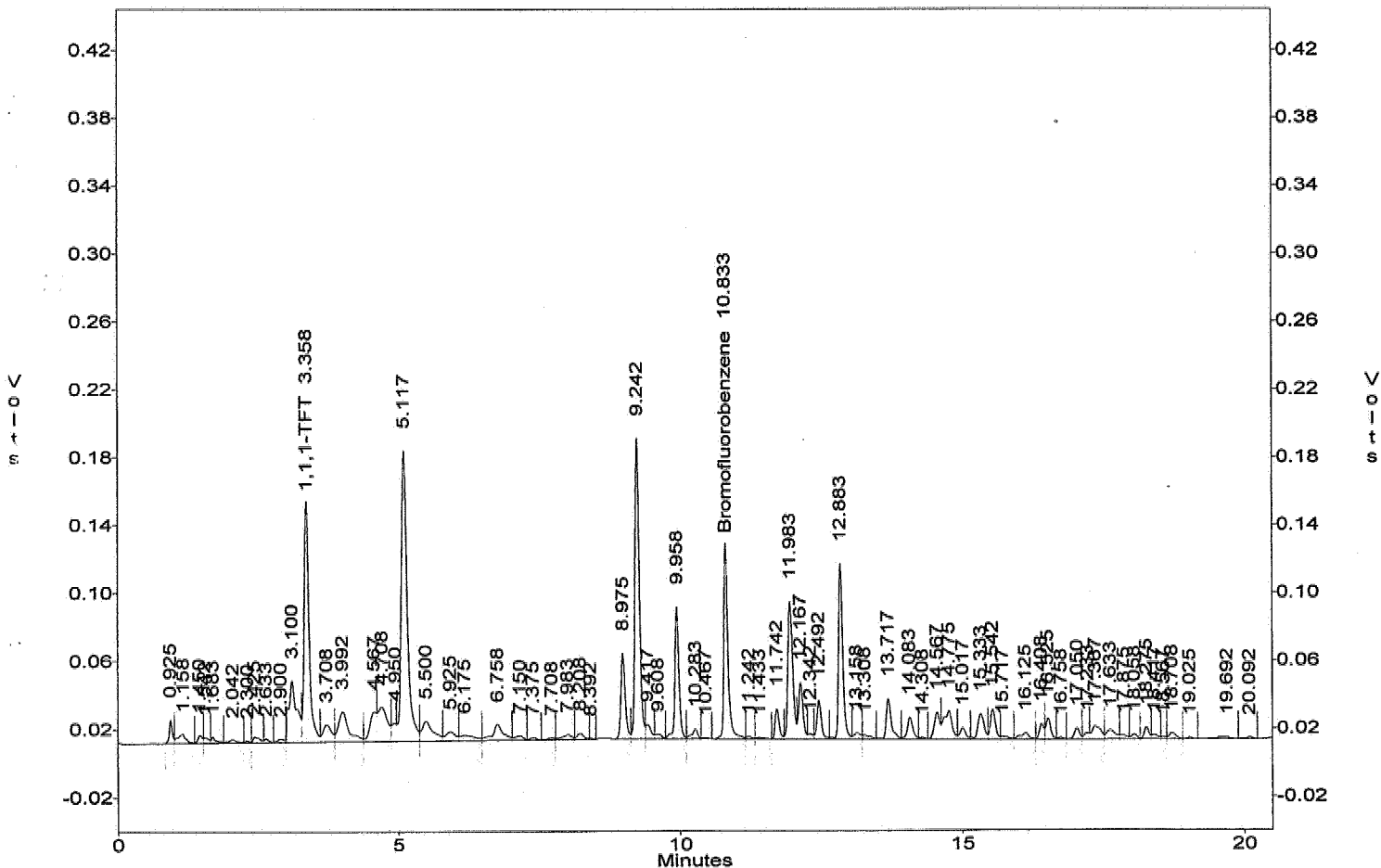
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.022
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-04 500/40
 Acquired : Mar 04, 2006 01:40:58
 Printed : Mar 06, 2006 12:18:47
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
12	1,1,1-TFT	3.358	854497.0	21531.8	40.00
36	Bromofluorobenzene	10.833	595155.0	15026.0	40.00
G1	GASOLINE (TOTAL)		7888862.0	15352.4	500.00
G2	GRO (C6-C10)		6389639.0	12418.6	500.00
G3	GRO (2MP-124TMB)		6404459.0	12455.2	500.00
G4	GRO (C5-C12)		7853986.0	15149.8	500.00

c:\ezchrom\chrom\ec03\ec03.022 -- Channel A



03/06/06
4027

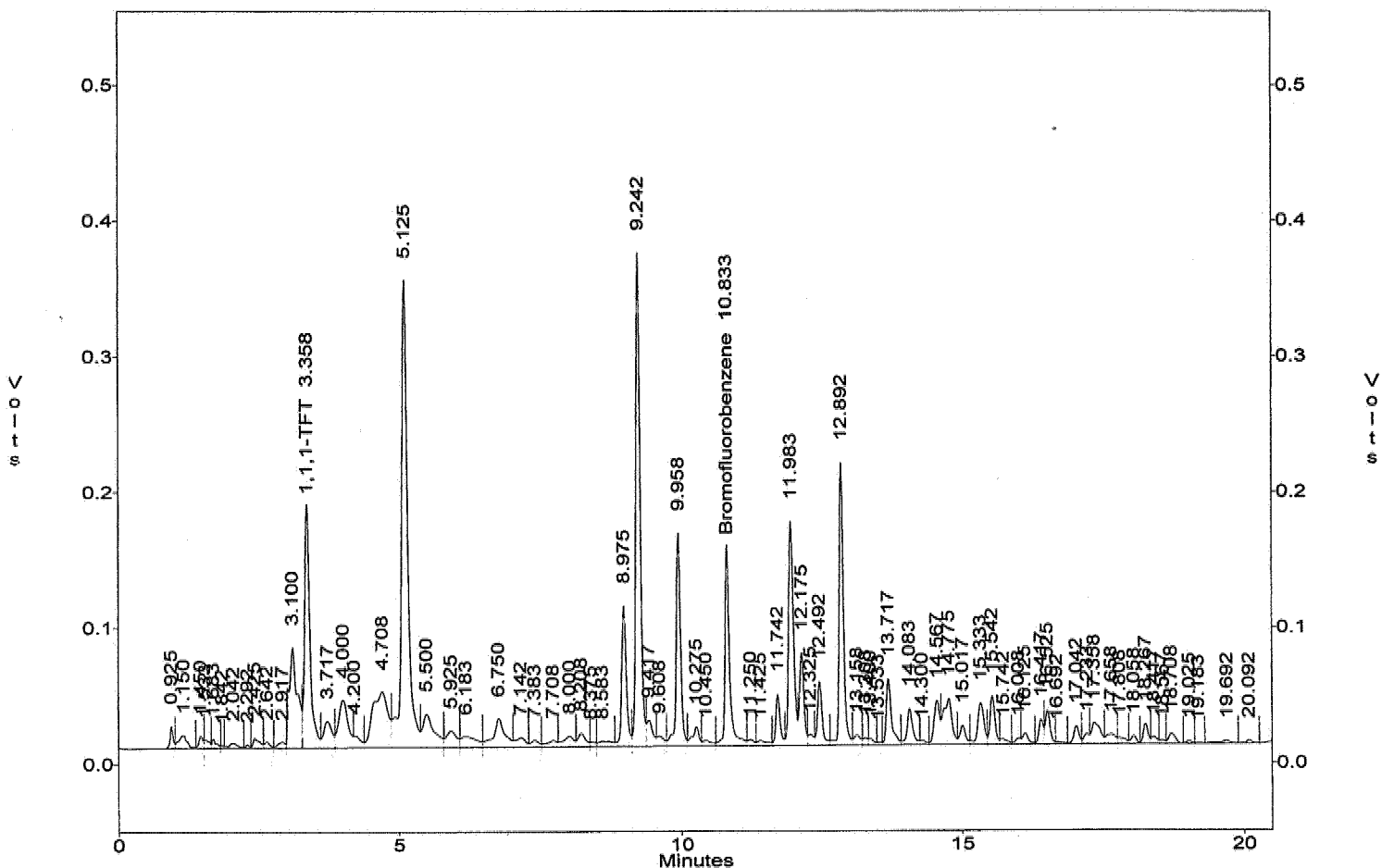
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.023
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-05 1000/50
 Acquired : Mar 04, 2006 02:18:59
 Printed : Mar 06, 2006 12:20:22
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
13	1,1,1-TFT	3.358	1163757.0	21531.8	50.00
37	Bromofluorobenzene	10.833	853904.0	15026.0	50.00
G1	GASOLINE (TOTAL)		16778924.0	15352.4	1000.00
G2	GRO (C6-C10)		13749773.0	12418.6	1000.00
G3	GRO (2MP-124TMB)		13776743.0	12455.2	1000.00
G4	GRO (C5-C12)		16712874.0	15149.8	1000.00

c:\ezchrom\chrom\ec03\ec03.023 -- Channel A



Rt
03/06/06
4028

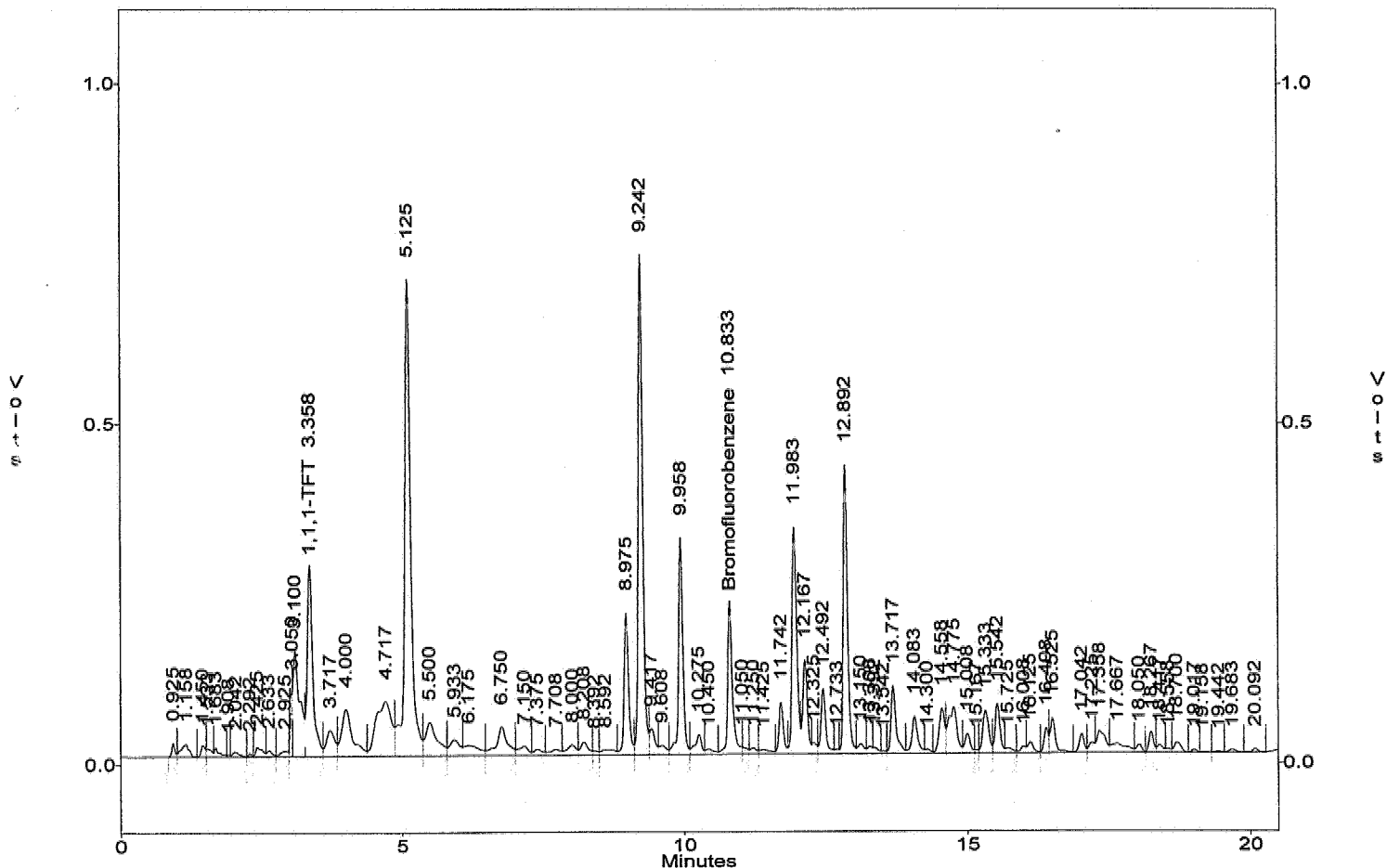
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.024
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-06 2000/75
 Acquired : Mar 04, 2006 02:57:07
 Printed : Mar 06, 2006 12:21:39
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
14	1,1,1-TFT	3.358	1845865.0	21531.8	75.00
37	Bromofluorobenzene	10.833	1298426.0	15026.0	75.00
G1	GASOLINE (TOTAL)		33415984.0	15352.4	2000.00
G2	GRO (C6-C10)		27390820.0	12418.6	2000.00
G3	GRO (2MP-124TMB)		27446880.0	12455.2	2000.00
G4	GRO (C5-C12)		33290400.0	15149.8	2000.00

c:\ezchrom\chrom\ec03\ec03.024 - Channel A



03/06/06
4029

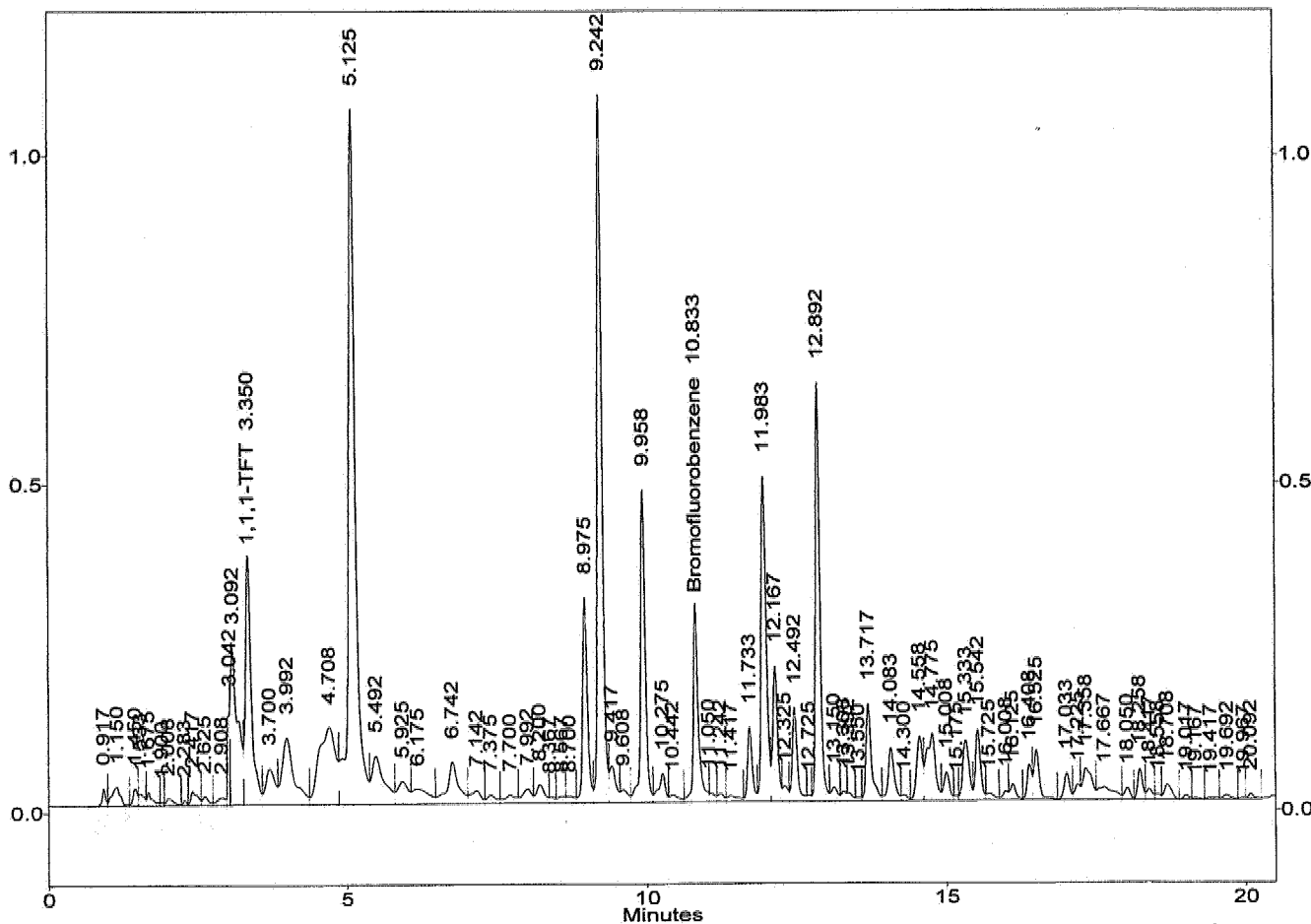
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.025
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : VG39C03-07 3000/100
 Acquired : Mar 04, 2006 03:35:22
 Printed : Mar 06, 2006 12:22:07
 User : SERGIO

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
14	1,1,1-TFT	3.350	2570044.0	21531.8	100.00
38	Bromofluorobenzene	10.833	1763520.0	15026.0	100.00
G1	GASOLINE (TOTAL)		49999240.0	15352.4	3000.00
G2	GRO (C6-C10)		41032744.0	12418.6	3000.00
G3	GRO (2MP-124TMB)		41125540.0	12455.2	3000.00
G4	GRO (C5-C12)		49821432.0	15149.8	3000.00

c:\ezchrom\chrom\ec03\ec03.025 -- Channel A



At
03/06/06
4030

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
5030B/M8015

Lab Name : EMAX
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40 ✓
 Conc Cont LFID & Datetime: EC03026A 03/04/2006 04:13 ✓
 CONC UNIT : ppb ✓

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	✓7188130	✓468.21	-6		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	✓5837213	✓470.04	-6		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	✓5812679	✓466.69	-7		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	✓7136784	✓471.08	-6		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.833	10.771	10.895	40.0	15026.0	621377	41.35	3		15
1,1,1-Trifluorotoluene	3.358	3.257	3.459	40.0	21531.8	834546	38.76	-3		15

VG39C03.MET

AA
03/06/04
4032

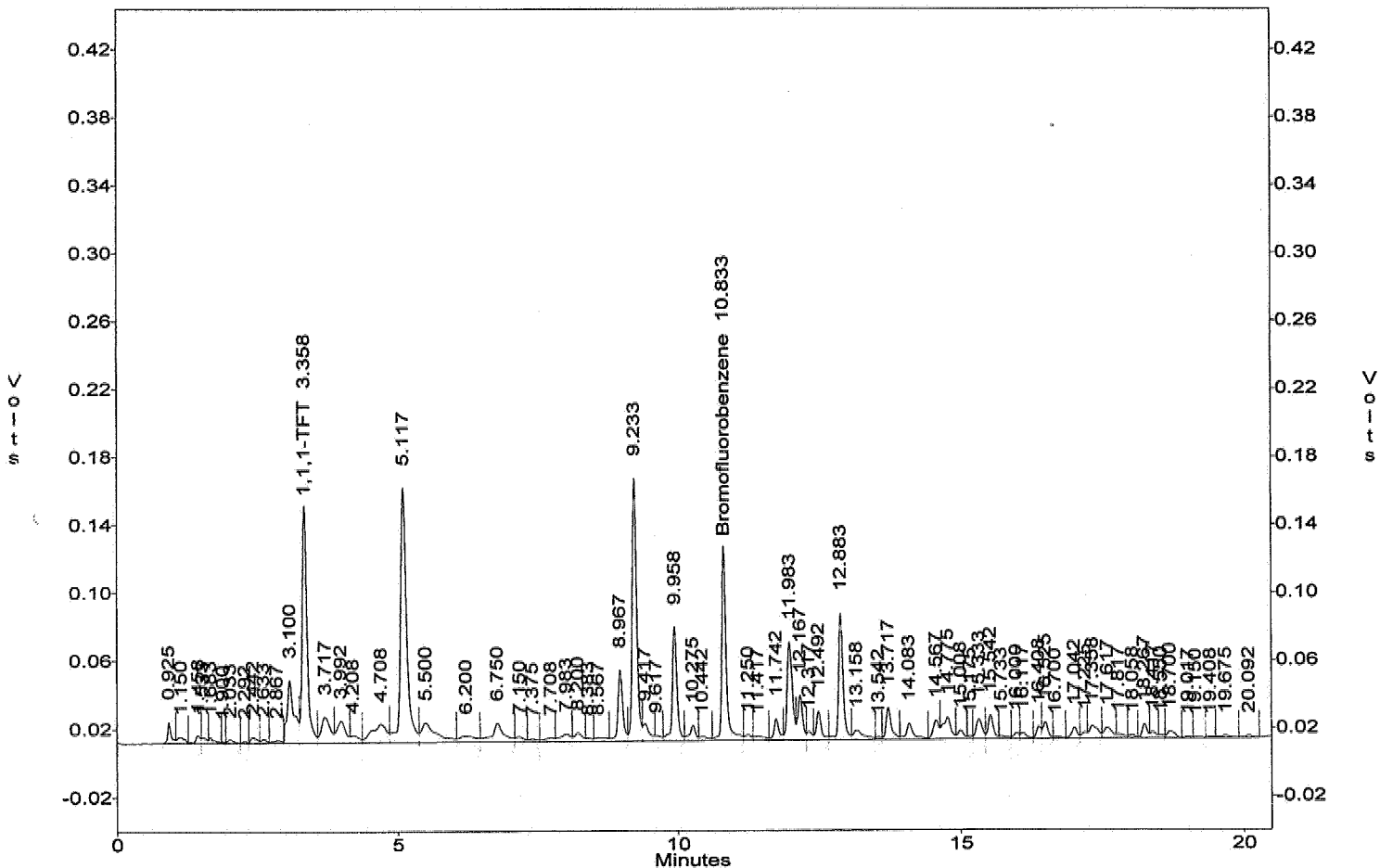
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.026
 Method : c:\ezchrom\methods\vg39c03.met ✓
 Sample ID : IVG39C0301 500/40
 Acquired : Mar 04, 2006 04:13:31
 Printed : Mar 06, 2006 12:24:44 ✓
 User : SERGIO

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
13	1,1,1-TFT	3.358	834546.0	21531.8	38.76
36	Bromofluorobenzene	10.833	621377.0	15026.0	41.35
G1	GASOLINE (TOTAL)		7188130.0	15352.4	468.21
G2	GRO (C6-C10)		5837213.0	12418.6	470.04
G3	GRO (2MP-124TMB)		5812679.0	12455.2	466.69
G4	GRO (C5-C12)		7136784.0	15149.8	471.08

c:\ezchrom\chrom\ec03\ec03.026 -- Channel A



DA
03/06/06
4033

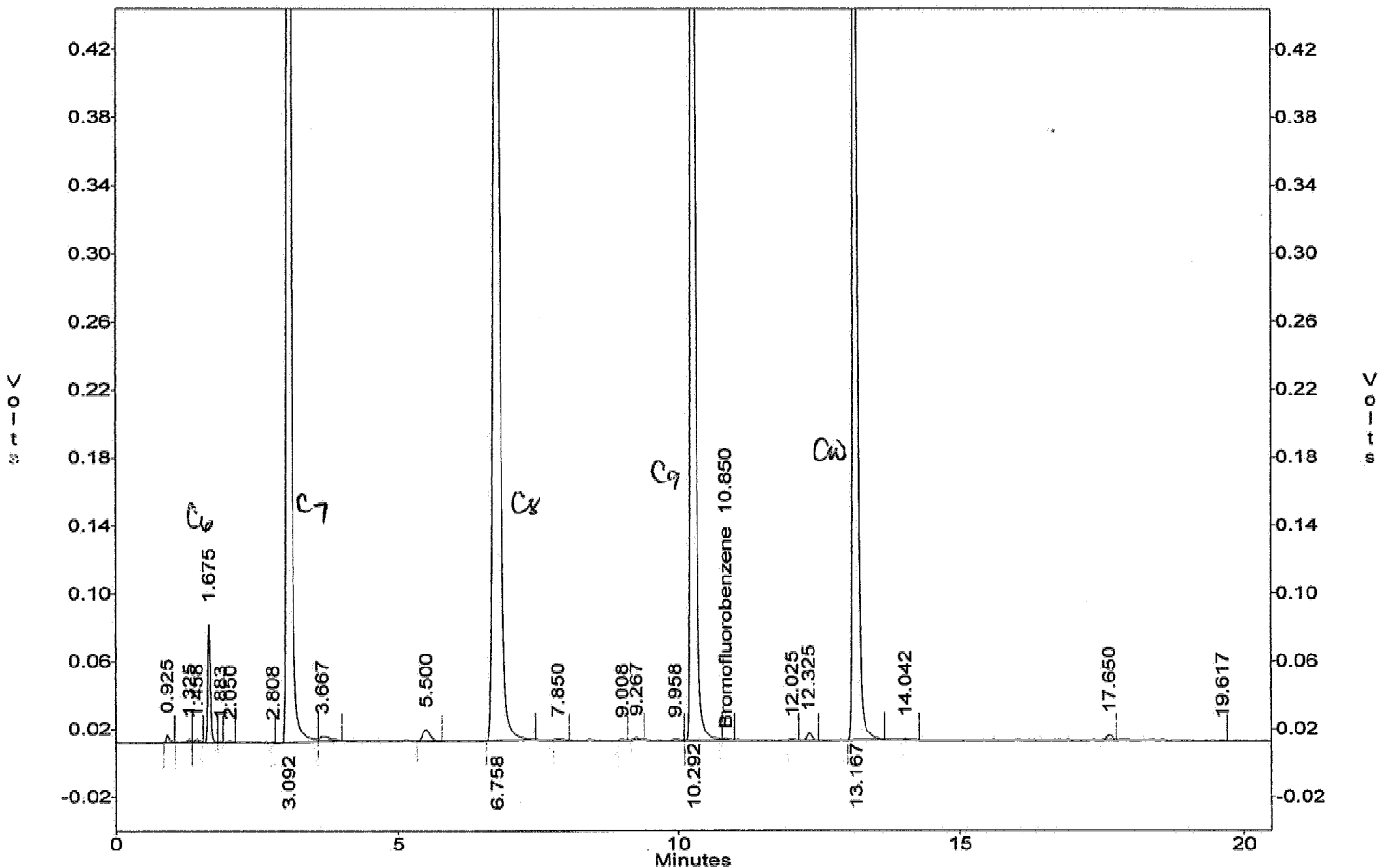
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.038
 Method : c:\ezchrom\methods\vg39c03.met
 Sample ID : GRO
 Acquired : Mar 04, 2006 11:51:49
 Printed : Mar 07, 2006 09:10:15
 User : MICHAEL

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
--	1,1,1-TFT	3.330	0.0	0.0	0.00
17	Bromofluorobenzene	10.850	7464.0	15026.0	0.50
G1	GASOLINE (TOTAL)		19320312.0	15352.4	1258.46
G2	GRO (C6-C10)		19276316.0	12418.6	1552.21
G3	GRO (2MP-124TMB)		14900208.0	12455.2	1196.30
G4	GRO (C5-C12)		19318510.0	15149.8	1275.17

c:\ezchrom\chrom\ec03\ec03.038 -- Channel A



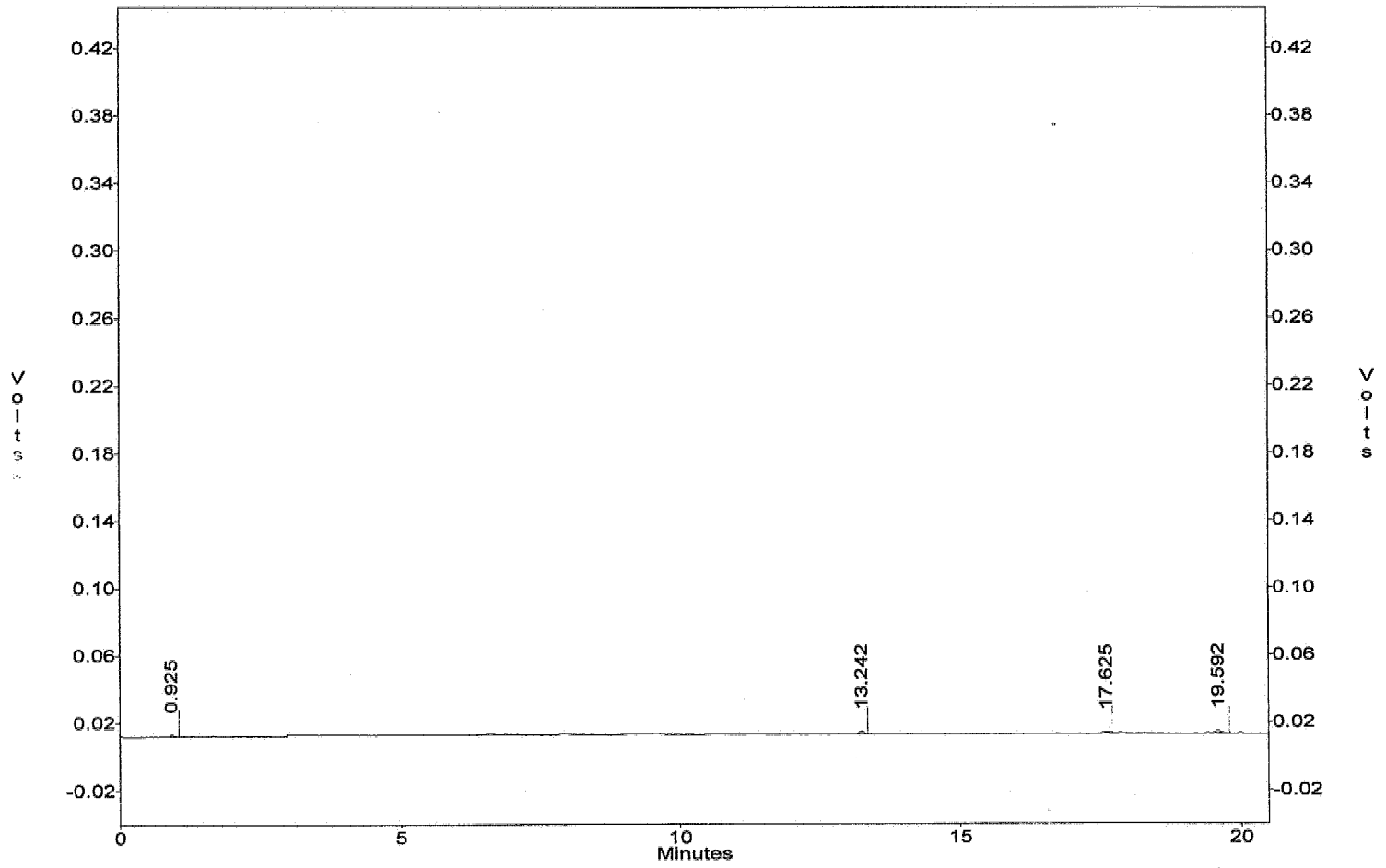
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec03\ec03.018
Method : c:\ezchrom\methods\vg39c03.met
Sample ID : IB39C735
Acquired : Mar 03, 2006 23:07:55
Printed : Mar 06, 2006 12:25:52
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
--	-----	-----	-----	-----	-----
--	1,1,1-TFT	3.330	0.0	0.0	0.00
--	Bromofluorobenzene	10.850	0.0	0.0	0.00
G1	GASOLINE (TOTAL)		21778.0	15352.4	1.42
G2	GRO (C6-C10)		0.0	12418.6	0.00
G3	GRO (2MP-124TMB)		0.0	12455.2	0.00
G4	GRO (C5-C12)		12407.0	15149.8	0.82

c:\ezchrom\chrom\ec03\ec03.018 -- Channel A



St
03/06/06
4035

DAILY CALIBRATION

CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
 Conc Cont LFID & Datetime: EC24007A 03/24/2006 14:10
 CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7509823	489.16	-2		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	6097919	491.03	-2		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	6134383	492.52	-1		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7482208	493.88	-1		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.858	10.796	10.920	40.0	15026.0	639120	42.53	6		15
1,1,1-Trifluorotoluene	3.383	3.282	3.484	40.0	21531.8	890547	41.36	3		15

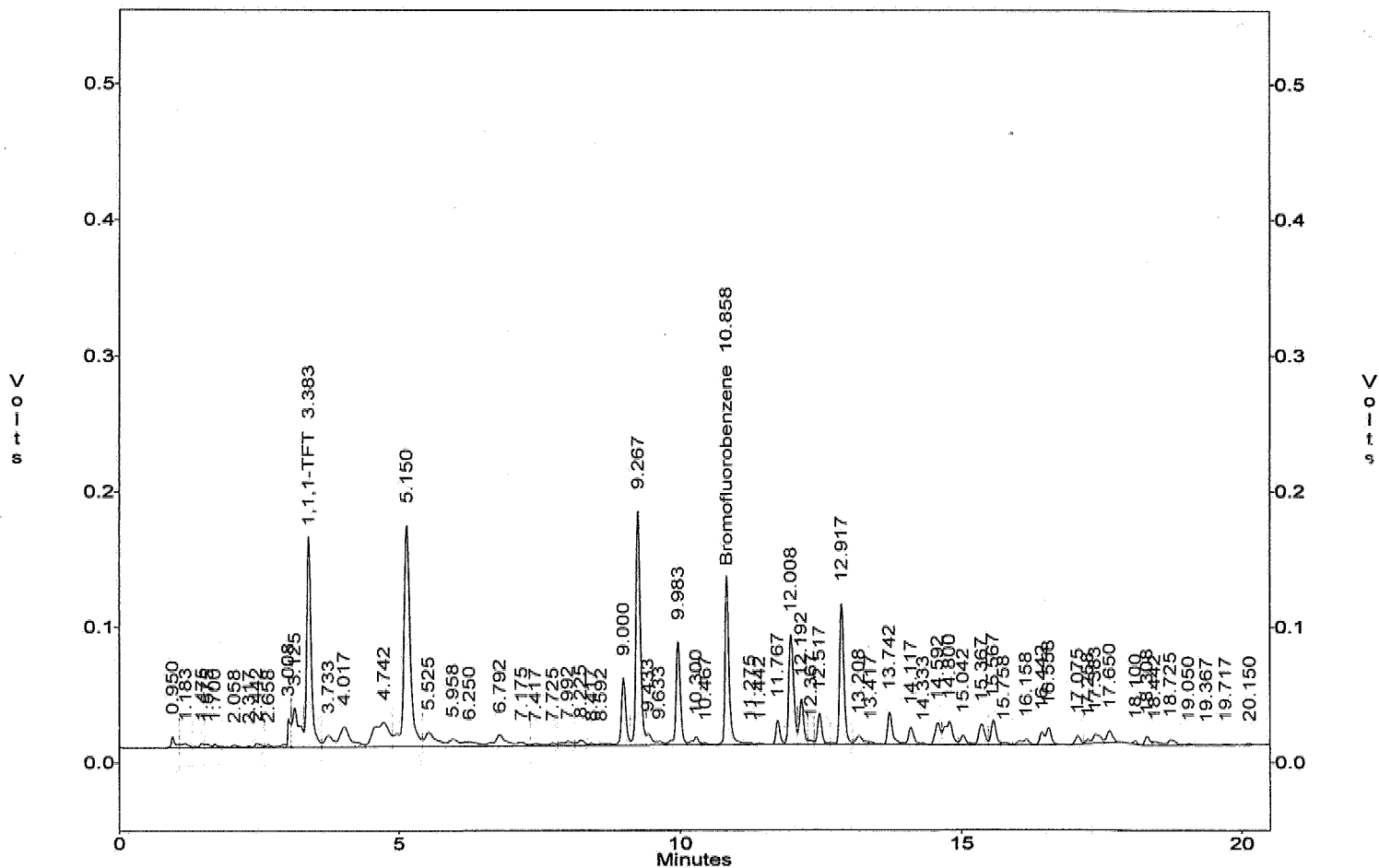
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\Ec24.007
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : CVG39C03808 500/40
 Acquired : Mar 24, 2006 14:10:41
 Printed : Mar 24, 2006 14:31:14
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
12	1,1,1-TFT	3.383	890547.0	21531.8	41.36
35	Bromofluorobenzene	10.858	639120.0	15026.0	42.53
G1	GASOLINE (TOTAL)		7509823.0	15352.4	489.16
G2	GRO (C6-C10)		6097919.0	12418.6	491.03
G3	GRO (2MP-124TMB)		6134383.0	12455.2	492.51
G4	GRO (C5-C12)		7482208.0	15149.8	493.88

c:\ezchrom\chrom\ec24\Ec24.007 - Channel A



CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
 Conc Cont LFID & Datetime: EC24022A 03/24/2006 23:43
 CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	8185368	533.17	7		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	6519572	524.98	5		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	6551315	525.99	5		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	8158842	538.54	8		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.842	10.780	10.904	40.0	15026.0	637479	42.42	6		15
1,1,1-Trifluorotoluene	3.367	3.266	3.468	40.0	21531.8	881905	40.96	2		15

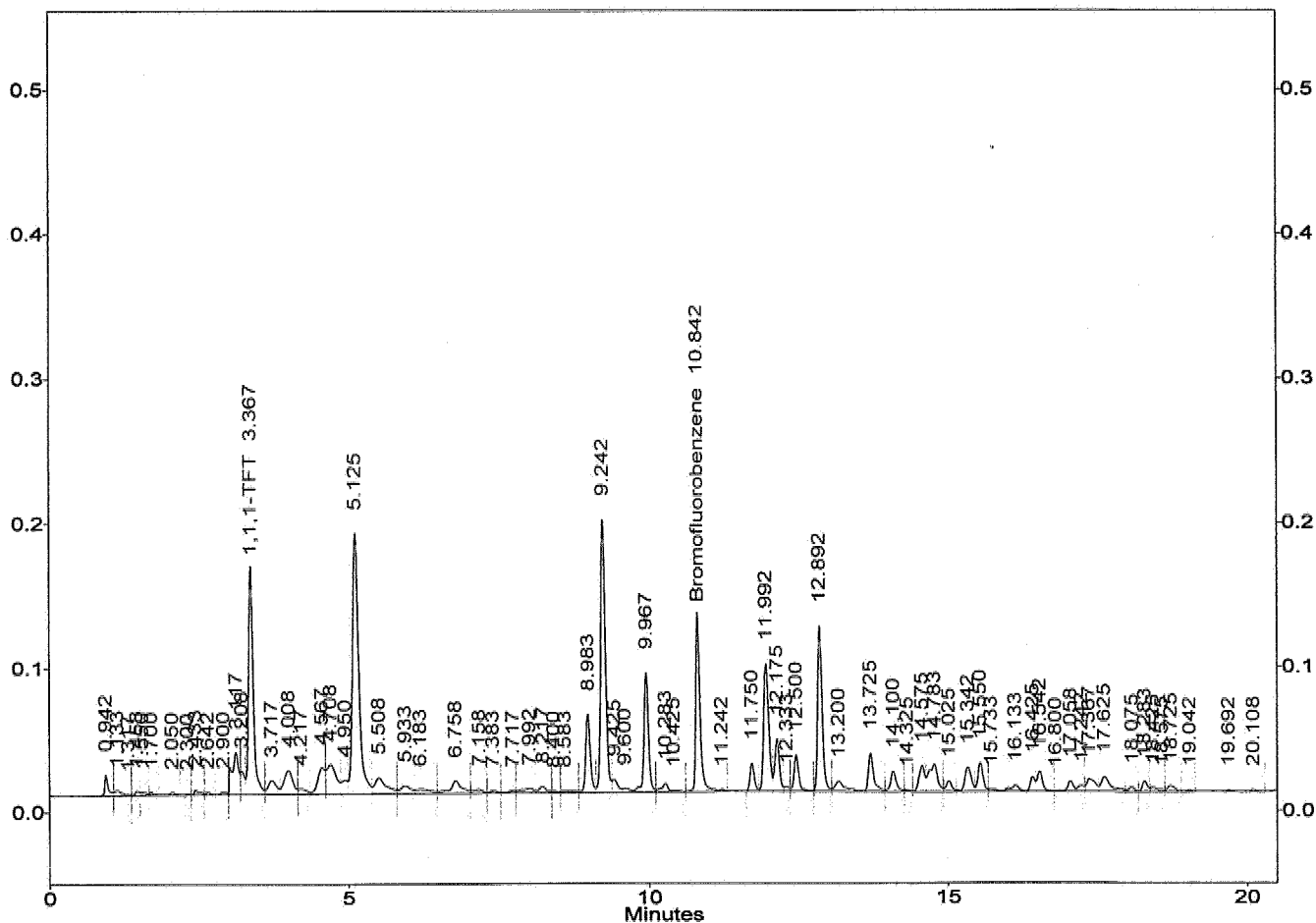
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ec24\Ec24.022
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : CVG39C03810 500/40
 Acquired : Mar 24, 2006 23:43:27
 Printed : Mar 25, 2006 00:04:00
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
14	1,1,1-TFT	3.367	881905.0	21531.8	40.96
40	Bromofluorobenzene	10.842	637479.0	15026.0	42.43
G1	GASOLINE (TOTAL)		8185368.0	15352.4	533.17
G2	GRO (C6-C10)		6519572.0	12418.6	524.98
G3	GRO (2MP-124TMB)		6551315.0	12455.2	525.99
G4	GRO (C5-C12)		8158842.0	15149.8	538.54

Ch. c:\ezchrom\chrom\ec24\Ec24.022 -- Channel A



CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX
 Instrument ID : GCT39
 GC Column : DB-5
 Column size ID : 30MX.53MM
 Mid Conc Init LFID & Datetime: EC03022A 03/04/2006 01:40
 Conc Cont LFID & Datetime: EC24032A 03/25/2006 06:03
 CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Gasoline(TOTAL)	0.000	0.000	0.000	500.0	15352.4	7361609	479.51	-4		15
GRO(C6-C10)	0.000	0.000	0.000	500.0	12418.6	5966195	480.42	-4		15
GRO(2MP-124TMB)	0.000	0.000	0.000	500.0	12455.2	5997643	481.54	-4		15
GRO(C5-C12)	0.000	0.000	0.000	500.0	15149.8	7332536	484.00	-3		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.850	10.788	10.912	40.0	15026.0	599723	39.91	-0		15
1,1,1-Trifluorotoluene	3.367	3.266	3.468	40.0	21531.8	836285	38.84	-3		15

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

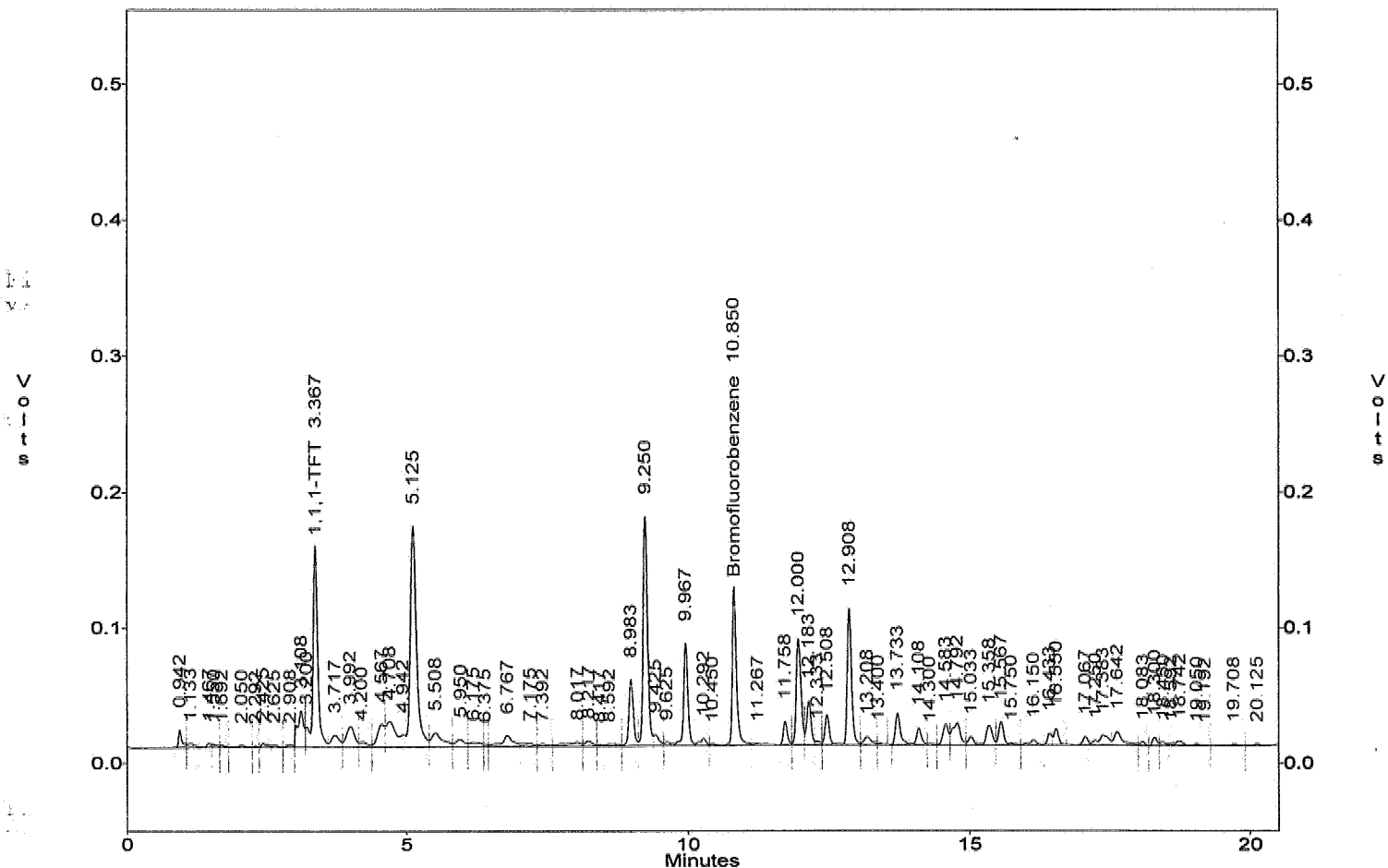
File : c:\ezchrom\chrom\ec24\Ec24.032
 Method : c:\ezchrom\methods\Vg39c03.met
 Sample ID : CVG39C03814 500/40
 Acquired : Mar 25, 2006 06:03:15
 Printed : Mar 25, 2006 06:23:47
 User : MICHAEL

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (PPB)
13	1,1,1-TFT	3.367	836285.0	21531.8	38.84
39	Bromofluorobenzene	10.850	599723.0	15026.0	39.91
G1	GASOLINE (TOTAL)		7361609.0	15352.4	479.51
G2	GRO (C6-C10)		5966195.0	12418.6	480.42
G3	GRO (2MP-124TMB)		5997643.0	12455.2	481.54
G4	GRO (C5-C12)		7332536.0	15149.8	484.00

Fi
V

c:\ezchrom\chrom\ec24\Ec24.032 -- Channel A



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR NONHALOGENATED VOLATILES

SOP: EMAX-5030B Rev. No. 1 EMAX-BTEXM Rev. No. 1 EMAX-8015G Rev. No. 1 SC 3/06/04
 Starting Date: 3/03/06 Time: 2:30:07 Ending Date: 3/03/06 3/03/06 3/04/06
 Instrument No: 13:46 Book # A39-024

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	Purge Volume	pH	Matrix	Notes	Instrument No:	
								FID Channel A	PID Channel B
*01	EC03-018	VB39C03-01	5.0ml	5.0ml	11/A	W		VB39C03	VB39C03
*02	-019	VB39C03-01	0.9ml/1.2ml				20/10	3/03/06	3/03/06
*03	-020	-02	1.1ml/2.1ml				50/20		
*04	-021	-03	2.1ml/3.1ml				100/30		
*05	-022	-04	1.1ml/4.1ml				500/40		
*06	-023	-05	2.1ml/5.1ml				1000/50		
*07	-024	-06	4.1ml/7.5ml				2000/75		
*08	-025	-07	6.1ml/10.1ml				3000/100		
*09	-026	VB39C03-01	5.1ml/14.1ml				500/40		
*10	-027	VB39C03-02	1.1ml/5.1ml				1000/50		
*11	-028	VB39C03-02	5.0ml				2000/75		
*12	-029	VA39C03-01	0.05ml				3000/100		
*13	-030	-02	1.1ml				500/40		
*14	-031	-03	5.1ml				1000/50		
*15	-032	-04	2.1ml				2000/75		
*16	-033	-05	4.1ml				3000/100		
*17	-034	-06	7.5ml				500/40		
*18	-035	-07	10.1ml				1000/50		
*19	-036	VA39C03-03	2.1ml				2000/75		
*20	-037	VA39C03-04	4.1ml				3000/100		
*21	-038	GR0	5.1ml				500/40		
*22	-039	2HP/12.4-7MB	1.1ml/5.1ml				1000/50		
*23	-040	PENTANE/METHANOL	3.1ml/5.1ml				2000/75		
*24	-041	DR0	5.1ml				3000/100		
*25									
*26									
*27									
*28									
*29									
*30									

ANALYTICAL BATCH # 2/A

Comments:

Analyzed By: SC
 Disposed on: 3/06/06 By: SC

ANALYSIS RUN LOG FOR NONHALOGENATED VOLATILES

SOP: EMAX-5030B Rev. No. 1 EMAX-BTEXM Rev. No. 1 EMAX-8015G Rev. No. 1

Starting Date: 3/24/06 Time: 10:58 Ending Date: 3/25/06 Time: 4:47 Book # A39-024

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	Purge Volume	pH	Matrix	Notes
*01	EC24.001	JUNK	5.0ml	5.0ml	N/A	W	
*02	.002	IB39C03808					
*03	.003	TEST					
*04	.004						
*05	.005						
*06	.006						
*07	.007	CN39C03808	1ml/1ml				500/40 GAS
*08	.008	CN39C03809	4ml				40/40 BTEX
*09	.009	NA39C038	5.0ml				Not Evaluated
*10	.010	Q					
*11	.011	L	2ml				BTEX
*12	.012	C	2ml				
*13	.013	NA39C14L	.5ml/1ml				GAS
*14	.014	C	.5ml/1ml				
*15	.015	BTXMDLVER-1	1ml				.2 PPb Not Evaluated
*16	.016	BTXMDLVER-2	2ml				.4 PPb
*17	.017	GASMDLVER-1	1ml/1ml				10 PPb Not Evaluated
*18	.018	GASMDLVER-2	2ml/1ml				20 PPb
*19	.019	06C584-03	5.0ml		<2		
*20	.020	-01					
*21	.021	-02					
*22	.022	CN39C03810	1ml/1ml				500/40 GAS
*23	.023	CN39C03811	4ml		N/A		40/40 BTEX
*24	.024	CN39C03812	1ml/1ml				500/40 GAS
*25	.025	CN39C03813	4ml				40/40 BTEX
*26	.026	06C222-01	5.0ml		<2		
*27	.027	01M					
*28	.028	01S					
*29	.029	02					
*30	.030	03					

Instrument No:	39
Initial Calibration Reference	
FID Channel A	PID Channel B
NA39C03	NA39C03
Date	03/03/06
ICAL ID	
ICV ID	
Sid.	ID
DCC GAS	SV2A-04-58
DCC BTEX	SV2C-04-30-1
BFB/TFT	SV2E-04-32-2
LCS/LCSD _{gas}	SV2A-04-67
MS/MSD	SV2A-04-67
LCS/LCSD _{3max}	SV2E-04-30-2
Solvent	ID
Methanol	
Electronic Data Archival	
Location	Date
EZC-3-BTEX	
Comments:	
Analyzed By: MPA/SC	
Disposed on: 3/24/06	
By: MPA	

ANALYSIS RUN LOG FOR NONHALOGENATED VOLATILES

SOP: EMAX-5030B Rev. No. 1 EMAX-BTEXM Rev. No. 1 EMAX-8015G Rev. No. 1

Starting Date: 3/25/06 Time: 5:25 Ending Date: 3/25/06 Time: 6:41 Book # A39-024

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	Purge Volume	pH	Matrix	Notes
*01	EC24 .031	060222-04	5.0ml	5.0ml	2.2	W	
*02	.032	CVA3903814	1ml 1ml		N/A		500/40 GAS
*03	.033	CVA3903815	1ml 1ml				500/40 GAS
*04							
*05							
*06							
*07							
*08							
*09							
*10							
*11							
*12							
*13							
*14							
*15							
*16							
*17							
*18							
*19							
*20							
*21							
*22							
*23							
*24							
*25							
*26							
*27							
*28							
*29							
*30							

Instrument No: 39	
Initial Calibration Reference	
FID Channel A	PID Channel B
V43903	V43903
Method File	
Date	03/23/06
ICAL ID	
ICV ID	
Std. ID	Conc. (mg/L)
DCC GAS	S&E PRAILIOS PALS
DCC BTEX	
BFB/TFT	
LCS/LCSD	
MS/MSD	
Solvent	ID
Methanol	
Electronic Data Archival	
Location	Date
EZC-3-BTEX	

Comments:

Analyzed By: MPA/SC

Disposed on: 3/25/06 By: MPA

ANALYTICAL BATCH *X JALACW 3/25/06

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 06C222

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C222

METHOD 3520C/8015B TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

Three (3) water samples were received on 03/24/06 for Total Petroleum Hydrocarbons by Extraction analysis by Method 3520C/8015B in accordance with SW846, 3rd edition.

1. Holding Time

Analytical holding time was met. Extraction was performed on 03/27/06 and completed on 03/28/06.

2. Calibration

Initial calibration was seven points for Diesel and Motor Oil. %RSDs were within 20%. Continuing calibrations were carried out at every 12-hour interval and all recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Surrogate Recovery

All recoveries were within QC limits.

5. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

6. Matrix Spike/Matrix Spike Duplicate

Sample C222-01 was spiked. Recoveries were within QC limits.

7. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met. Sample results were quantitated from C10 to C28 using Diesel (C10-C28) calibration factor and from C28 to C38 using Motor Oil calibration factor.

Sample C222-03 displayed lighter fuel pattern.

Discrete peak(s) found in sample C222-03 was not reported.

SAMPLE RESULTS

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : ENSR                               Date Collected: 03/23/06
Project    : UPGRADIENT INVESTIGATION, TRONOX  Date Received: 03/24/06
Batch No.  : 06C222                             Date Extracted: 03/27/06 12:00
Sample ID  : M-121                              Date Analyzed: 03/28/06 19:51
Lab Samp ID: C222-01                            Dilution Factor: .94
Lab File ID: TC28009A                          Matrix          : WATER
Ext Btch ID: DSC025W                          % Moisture     : NA
Calib. Ref.: TC28004A                         Instrument ID  : GCT050
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.47	.094
ORO	ND	.94	.094

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	66	45-154
HEXACOSANE	90	63-165

RL : Reporting Limit
Parameter H-C Range
DRO C10-C28
ORO C28-C38

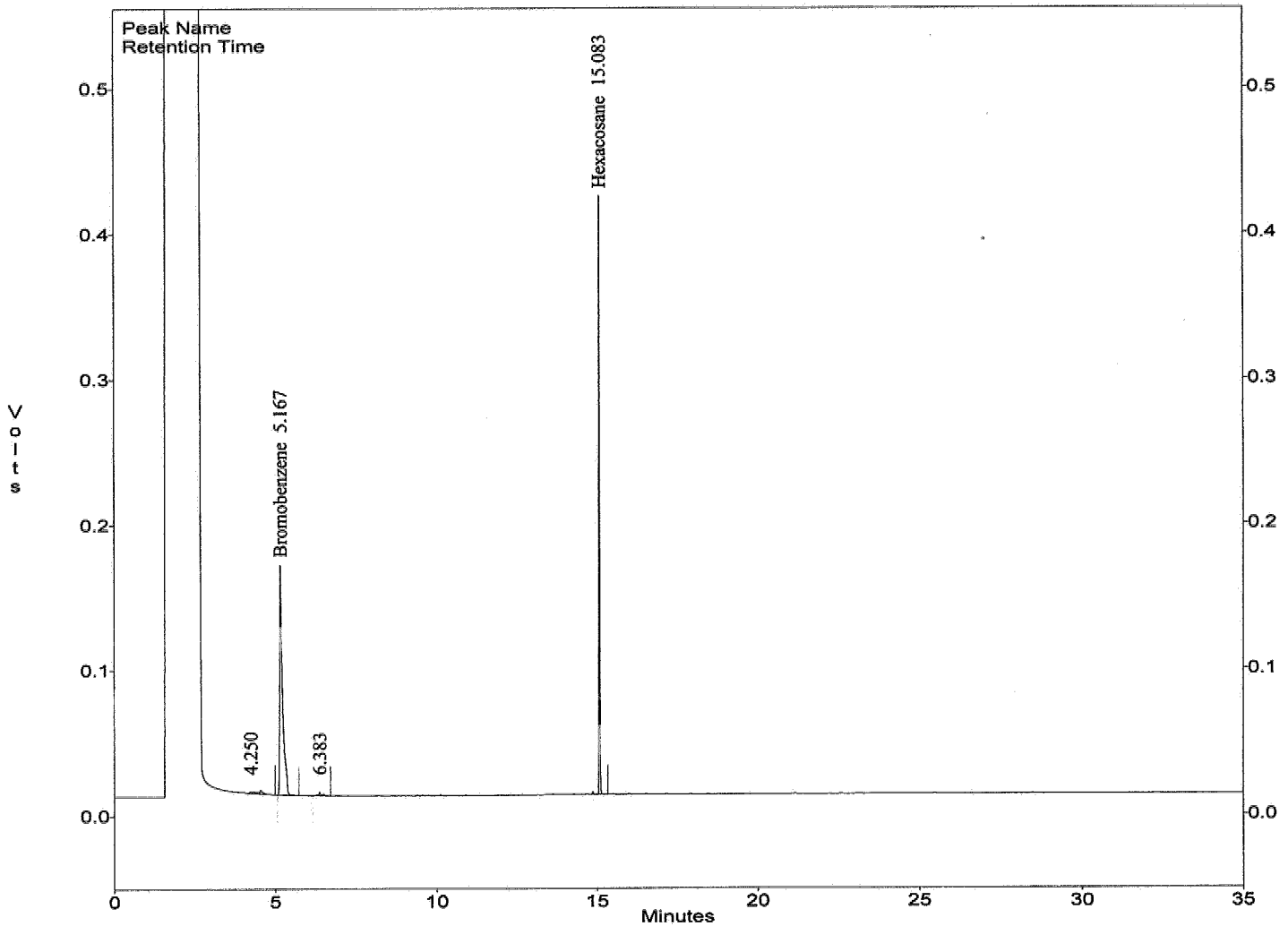
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\TC28.009
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : 06C222-01
Acquired : Mar 28, 2006 19:51:40
Printed : Mar 29, 2006 15:07:26
User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.167	935346	14214.3	65.8
4	Hexacosane	15.083	654695	28984.5	22.6
G1	Diesel (TOTAL)		49735	26500.7	1.9
G2	Diesel (C10-C24)		15387	26460.6	0.6
G3	Diesel (C10-C28)		15387	26478.8	0.6

c:\ezchrom\chrom\tc28\TC28.009 -- Channel A



METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : ENSR                      Date Collected: 03/23/06
Project    : UPGRADE INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No.  : 06C222                     Date Extracted: 03/27/06 12:00
Sample ID  : M-117                       Date Analyzed: 03/28/06 21:57
Lab Samp ID: C222-02                     Dilution Factor: .94
Lab File ID: TC28012A                    Matrix          : WATER
Ext Btch ID: DSC025W                     % Moisture      : NA
Calib. Ref.: TC28004A                    Instrument ID   : GCT050
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.47	.094
ORO	ND	.94	.094

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	68	45-154
HEXACOSANE	85	63-165

RL : Reporting Limit
Parameter H-C Range
DRO C10-C28
ORO C28-C38

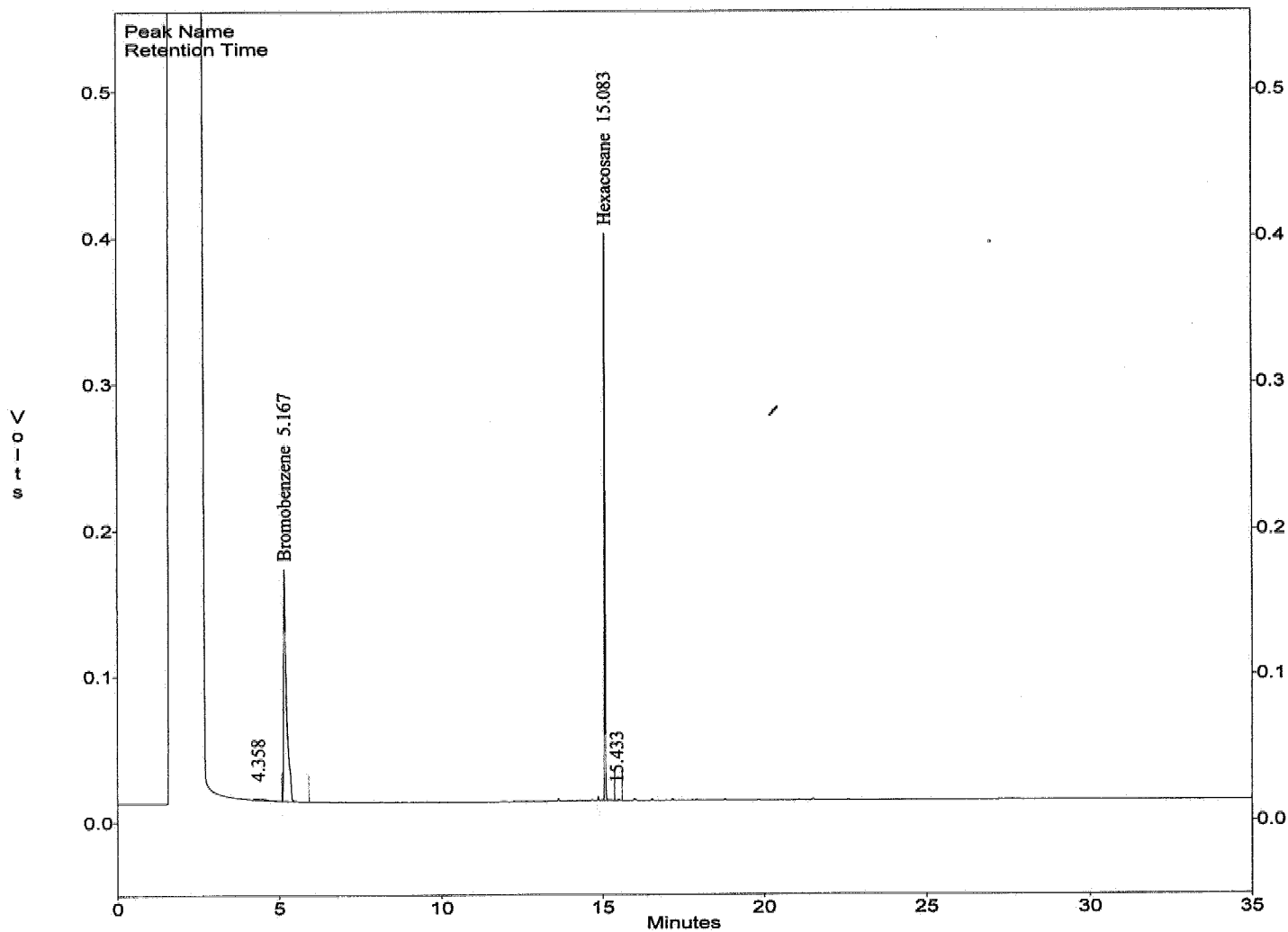
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\TC28.012
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : 06C222-02
Acquired : Mar 28, 2006 21:57:09
Printed : Mar 29, 2006 15:08:16
User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.167	971696	14214.3	68.4
3	Hexacosane	15.083	615599	28984.5	21.2
G1	Diesel (TOTAL)		23100	26500.7	0.9
G2	Diesel (C10-C24)		0	26460.6	0.0
G3	Diesel (C10-C28)		0	26478.8	0.0

c:\ezchrom\chrom\tc28\TC28.012 -- Channel A



METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : ENSR                               Date Collected: 03/23/06
Project    : UPGRADIENT INVESTIGATION, TRONOX  Date Received: 03/24/06
Batch No.  : 06C222                             Date Extracted: 03/27/06 12:00
Sample ID  : H-11                               Date Analyzed: 03/28/06 22:38
Lab Samp ID: C222-03                           Dilution Factor: .94
Lab File ID: TC28013A                          Matrix          : WATER
Ext Btch ID: DSC025W                          % Moisture     : NA
Calib. Ref.: TC28004A                          Instrument ID   : GCT050
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO**	.13J	.47	.094
ORO	ND	.94	.094

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	64	45-154
HEXACOSANE	98	63-165

RL : Reporting Limit
Parameter H-C Range
DRO C10-C28
ORO C28-C38

** : Discrete peak(s) found was not reported

METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

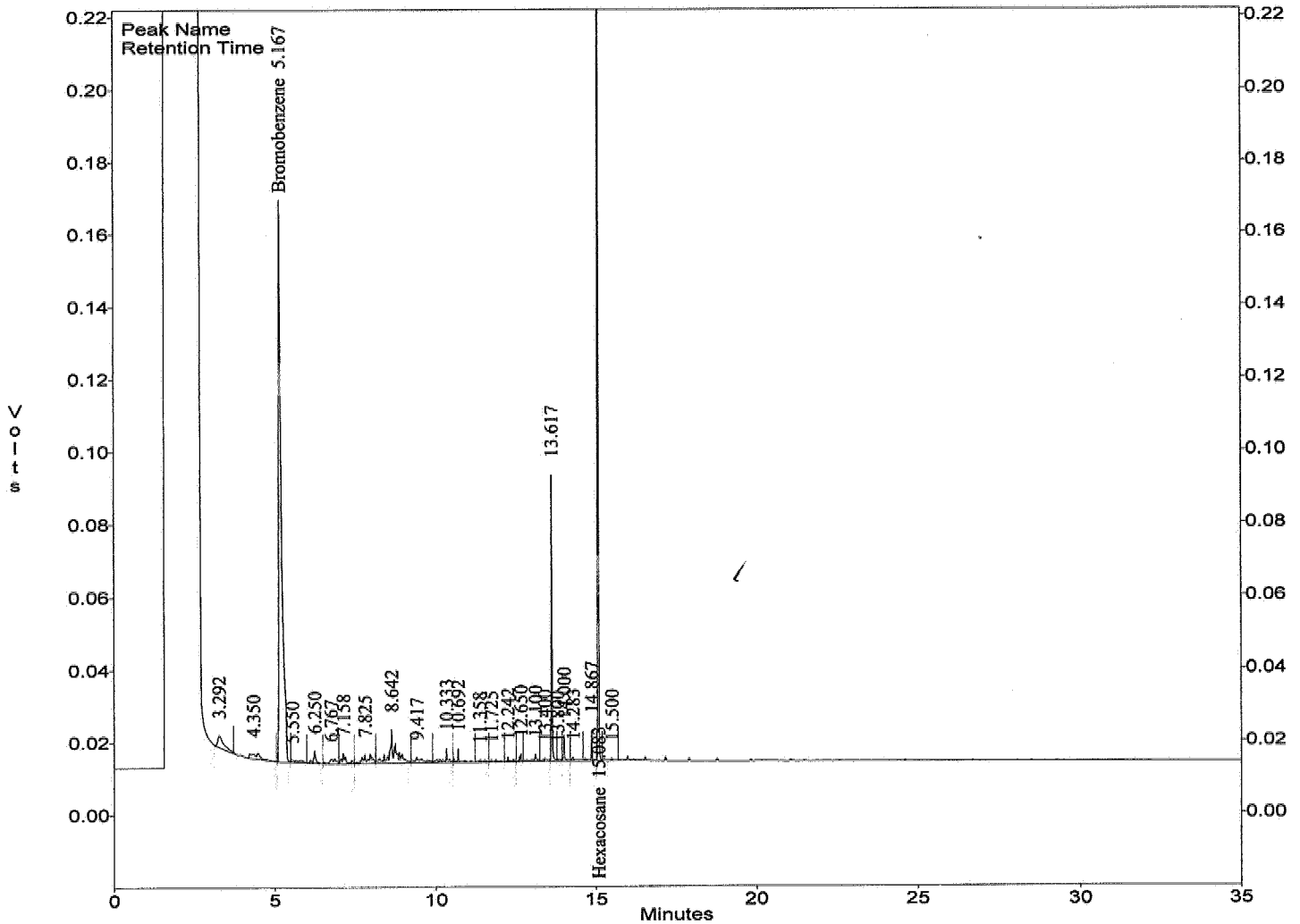
File : c:\ezchrom\chrom\tc28\TC28.013
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : 06C222-03
 Acquired : Mar 28, 2006 22:38:57
 Printed : Mar 29, 2006 15:10:03
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
3	Bromobenzene	5.167	914205	14214.3	64.3
24	Hexacosane	15.083	710439	28984.5	24.5
G1	Diesel (TOTAL)		527415	26500.7	19.9
G2	Diesel (C10-C24)		479652	26460.6	18.1
G3	Diesel (C10-C28)		497604	26478.8	18.8
G4	Dscrt Peak(13.617)		134055	0.0	0.0

$$\text{Diesel (C10-C28)} = \frac{497604 - 134055}{26478.8} \times \frac{10}{1060} = 0.13$$

c:\ezchrom\chrom\tc28\TC28.013 -- Channel A



J
 03-29-06
 5009

QC SUMMARIES

METHOD 3520C/8015B
TOTAL PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : ENSR                      Date Collected: NA
Project    : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/27/06
Batch No.  : 06C222                    Date Extracted: 03/27/06 12:00
Sample ID  : MBLK1W                     Date Analyzed: 03/28/06 17:46
Lab Samp ID: DSC025WB                   Dilution Factor: 1
Lab File ID: TC28006A                   Matrix          : WATER
Ext Btch ID: DSC025W                     % Moisture      : NA
Calib. Ref.: TC28004A                    Instrument ID   : GCT050
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DRO	ND	.5	.1
ORO	ND	1	.1

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
BROMOBENZENE	56	50-140
HEXACOSANE	112	70-150

RL : Reporting Limit
Parameter H-C Range
DRO C10-C28
ORO C28-C38

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: METHOD 3520C/8015B

=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: DSC025WB DSC025WL DSC025WC
LAB FILE ID: TC28006A TC28007A TC28008A
DATE EXTRACTED: 03/27/0612:00 03/27/0612:00 03/27/0612:00 DATE COLLECTED: NA
DATE ANALYZED: 03/28/0617:46 03/28/0618:28 03/28/0619:09 DATE RECEIVED: 03/27/06
PREP. BATCH: DSC025W DSC025W DSC025W
CALIB. REF: TC28004A TC28004A TC28004A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
DRO	ND	5	4.03	81	5	3.88	78	4	60-140	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT (%)
Bromobenzene	1	.694	69	1	.708	71	50-140
Hexacosane	.25	.272	109	.25	.273	109	70-150

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: METHOD 3520C/8015B

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: .94 .94
SAMPLE ID: M-121
LAB SAMP ID: C222-01 C222-01M C222-01S
LAB FILE ID: TC28009A TC28010A TC28011A
DATE EXTRACTED: 03/27/0612:00 03/27/0612:00 03/27/0612:00 DATE COLLECTED: 03/23/06
DATE ANALYZED: 03/28/0619:51 03/28/0620:33 03/28/0621:15 DATE RECEIVED: 03/24/06
PREP. BATCH: DSC025W DSC025W DSC025W
CALIB. REF: TC28004A TC28004A TC28004A ✓

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
DRO	ND	4.7	4.38	93	4.7	3.77	80	15	54-154	30

SURROGATE PARAMETER	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	QC LIMIT (%)
Bromobenzene	.94	.651	69	.94	.718	76	45-154
Hexacosane	.235	.236	100	.235	.25	106	63-165

QC DATA

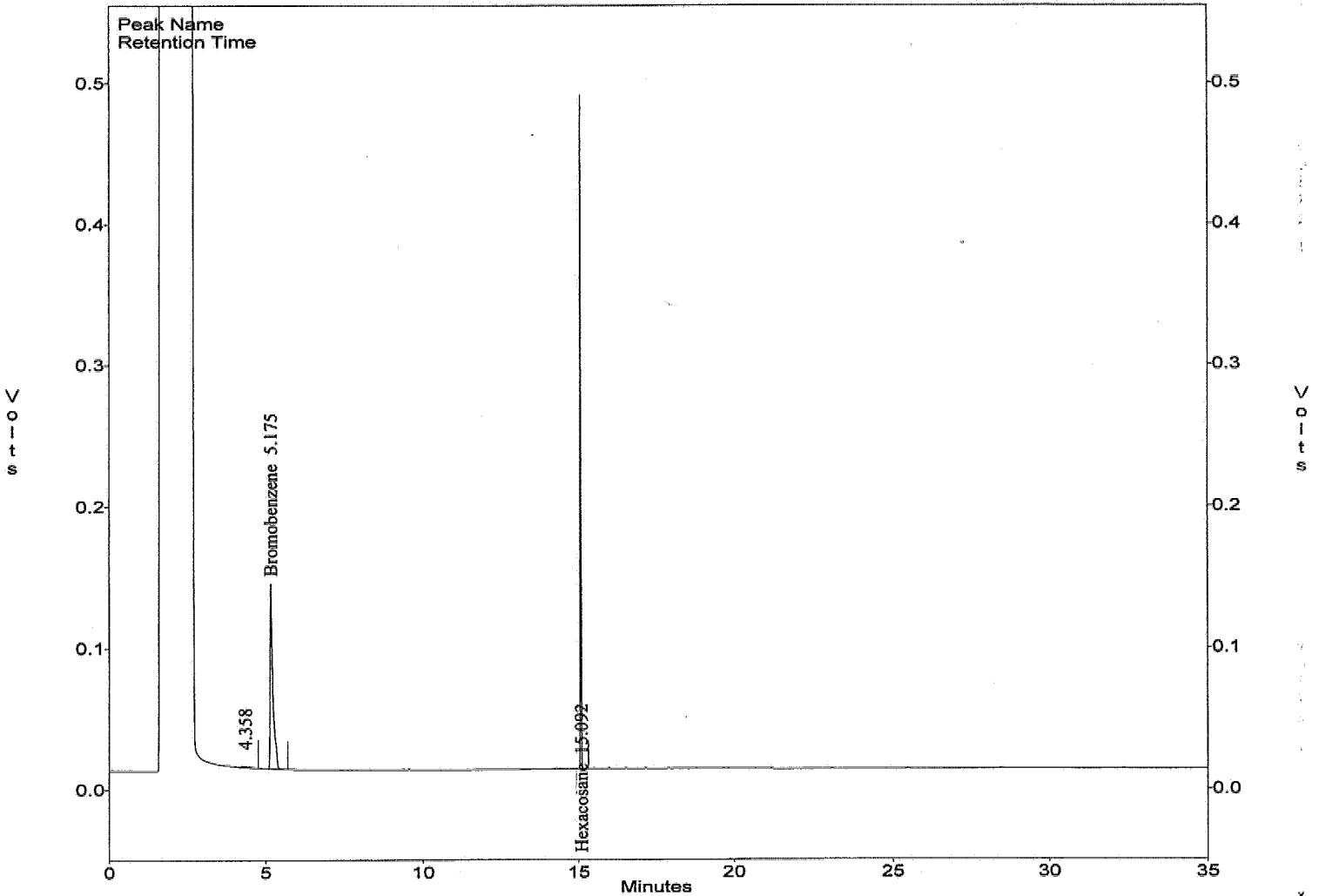
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\TC28.006
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DSC025WB
Acquired : Mar 28, 2006 17:46:11
Printed : Mar 29, 2006 18:20:06
User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.175	789199	14214.3	55.5
3	Hexacosane	15.092	810545	28984.5	28.0
G1	Diesel (TOTAL)		17758	26500.7	0.7
G2	Diesel (C10-C24)		0	26460.6	0.0
G3	Diesel (C10-C28)		0	26478.8	0.0

c:\ezchrom\chrom\tc28\TC28.006 -- Channel A



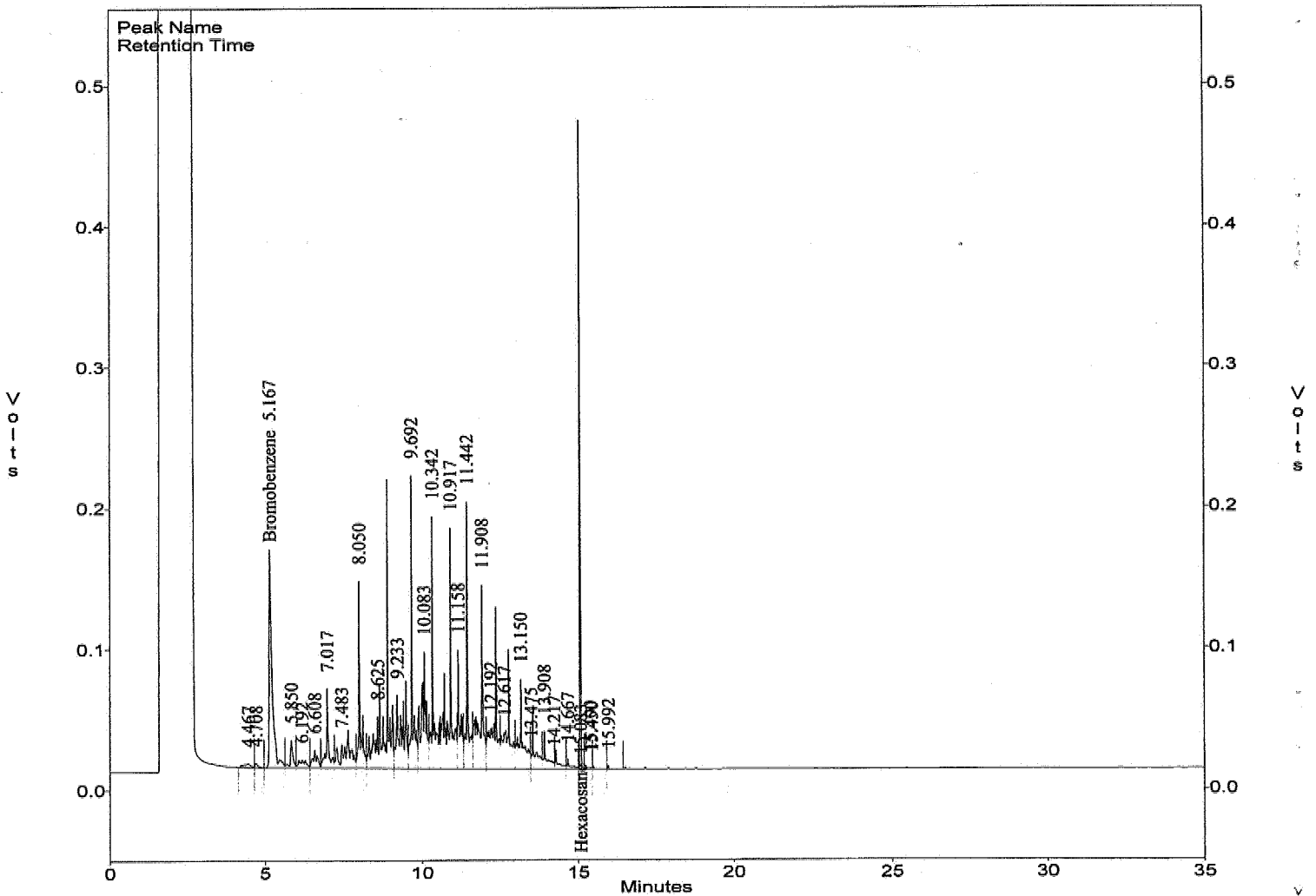
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\TC28.007
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DSC025WL
 Acquired : Mar 28, 2006 18:28:01
 Printed : Mar 29, 2006 18:20:07
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
3	Bromobenzene	5.167	986062	14214.3	69.4
26	Hexacosane	15.083	787500	28984.5	27.2
G1	Diesel (TOTAL)		10859025	26500.7	409.8
G2	Diesel (C10-C24)		10619773	26460.6	401.3
G3	Diesel (C10-C28)		10671037	26478.8	403.0

c:\ezchrom\chrom\tc28\TC28.007 -- Channel A



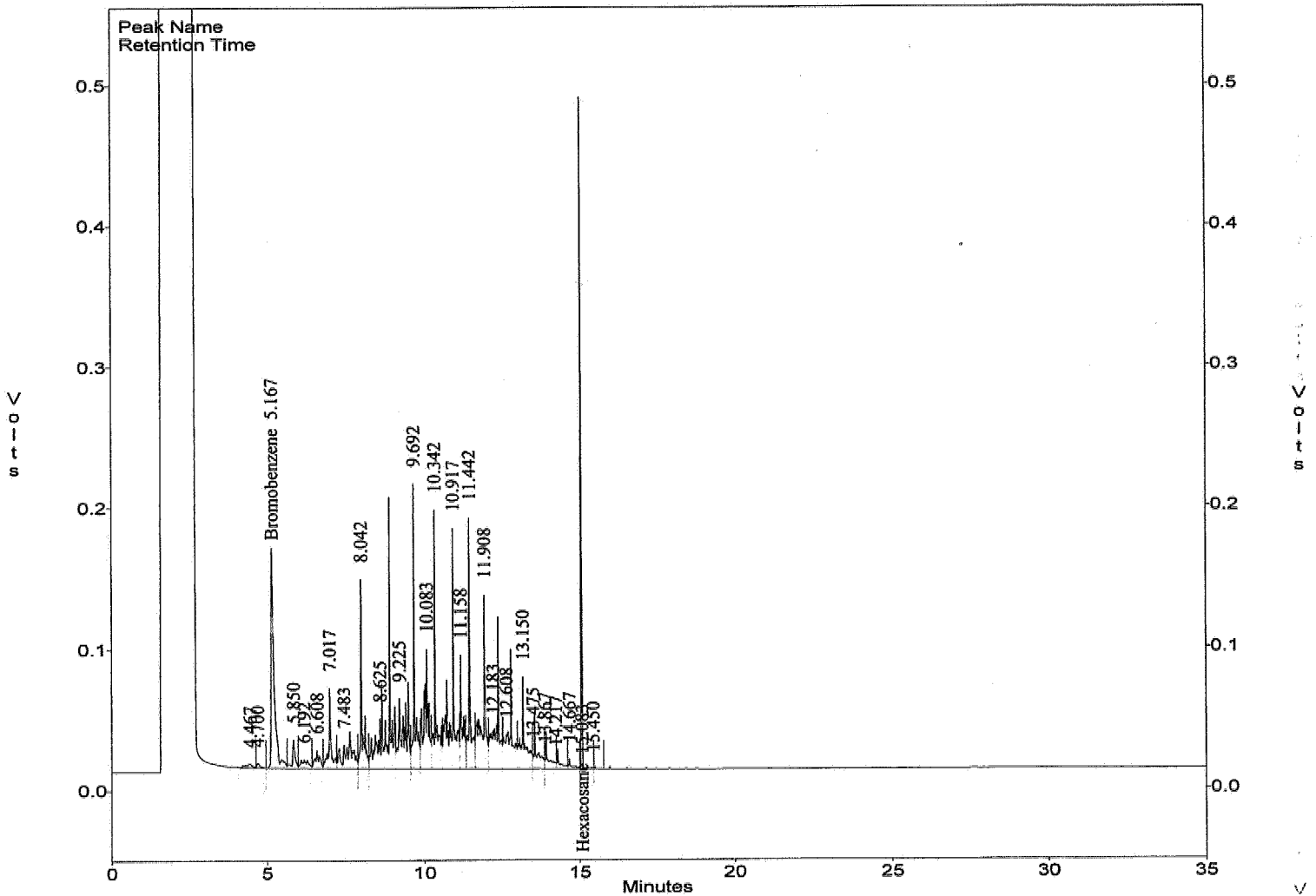
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\TC28.008
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DSC025WC
Acquired : Mar 28, 2006 19:09:53
Printed : Mar 29, 2006 18:20:08
User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
3	Bromobenzene	5.167	1005950	14214.3	70.8
26	Hexacosane	15.083	792347	28984.5	27.3
G1	Diesel (TOTAL)		10464488	26500.7	394.9
G2	Diesel (C10-C24)		10231967	26460.6	386.7
G3	Diesel (C10-C28)		10274192	26478.8	388.0

c:\ezchrom\chrom\tc28\TC28.008 -- Channel A



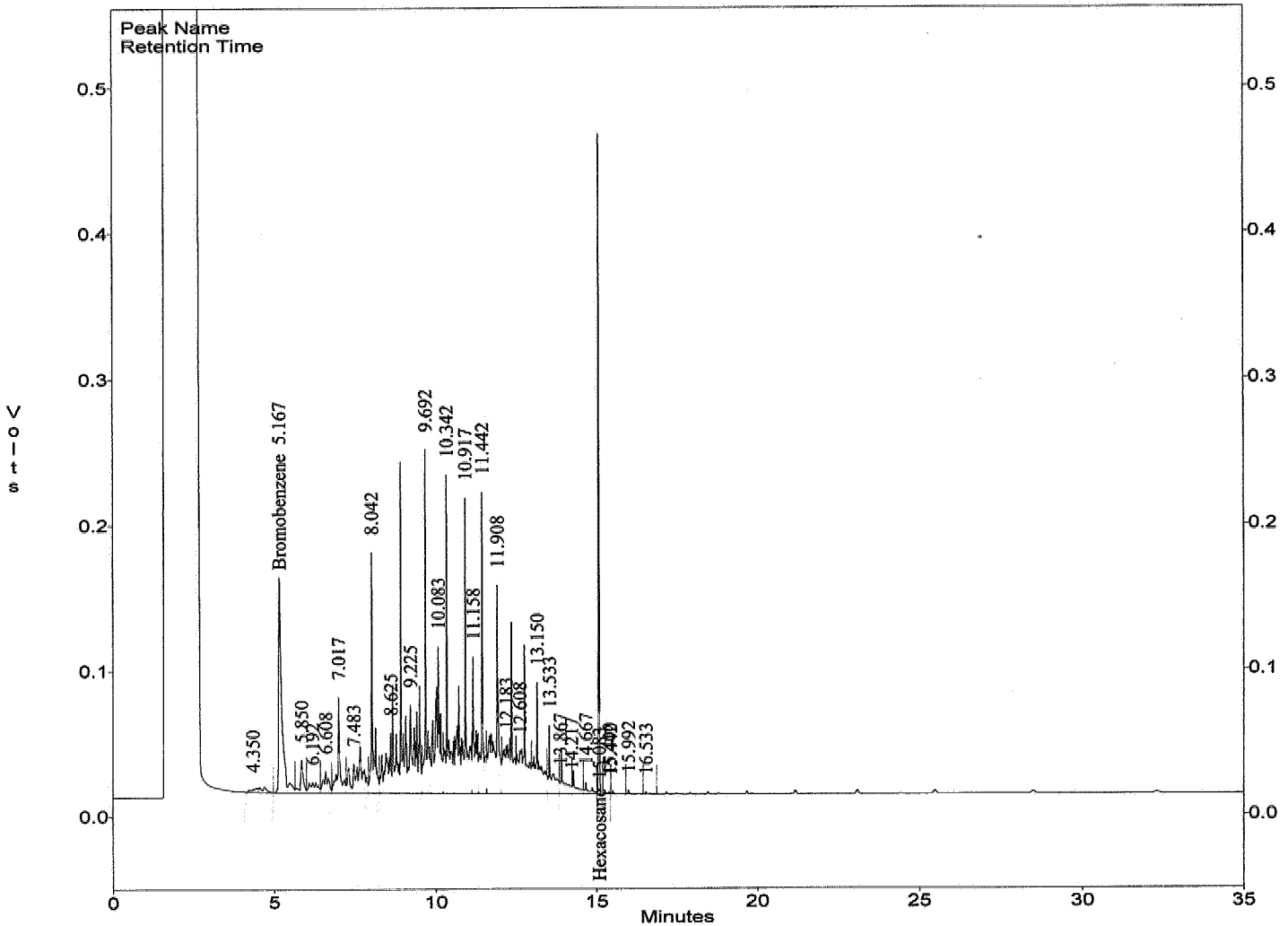
METHOD 8015 by GC/FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\TC28.010
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : 06C222-01M
 Acquired : Mar 28, 2006 20:33:31
 Printed : Mar 29, 2006 15:07:27
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.167	984834	14214.3	69.3
25	Hexacosane	15.083	728184	28984.5	25.1
G1	Diesel (TOTAL)		12579887	26500.7	474.7
G2	Diesel (C10-C24)		12280247	26460.6	464.1
G3	Diesel (C10-C28)		12348706	26478.8	466.4

c:\ezchrom\chrom\tc28\TC28.010 -- Channel A



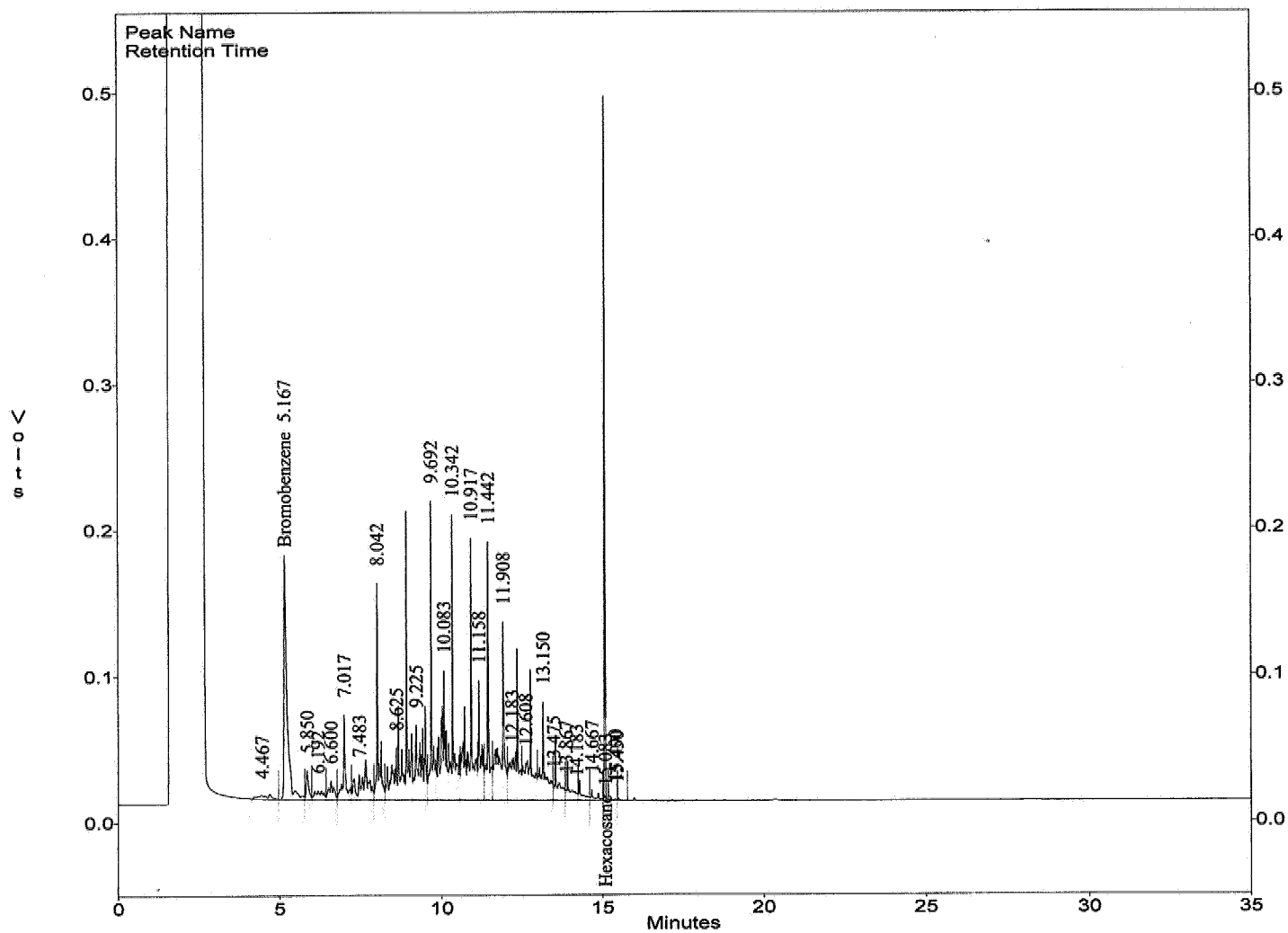
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\TC28.011
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : 06C222-01S
Acquired : Mar 28, 2006 21:15:19
Printed : Mar 29, 2006 15:07:55
User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.167	1085789	14214.3	76.4
25	Hexacosane	15.083	770165	28984.5	26.6
G1	Diesel (TOTAL)		10792517	26500.7	407.3
G2	Diesel (C10-C24)		10569463	26460.6	399.4
G3	Diesel (C10-C28)		10617055	26478.8	401.0

c:\ezchrom\chrom\tc28\TC28.011 -- Channel A



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 LFID & Datetime: TA31009A 01/31/06 19:57
 LFID & Datetime: TA31010A 01/31/06 20:39
 LFID & Datetime: TA31004A 01/31/06 16:26
 LFID & Datetime: TA31005A 01/31/06 17:08
 LFID & Datetime: TA31006A 01/31/06 17:51
 LFID & Datetime: TA31007A 01/31/06 18:33
 LFID & Datetime: TA31008A 01/31/06 19:15
 CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT							MEAN	%RSD
		1.00X	2.00X	10.00X	20.00X	100.00X	300.00X	600.00X		
DIESEL(TOTAL)	5.00	29695	33603	21928	26105	23350	24931	25894	26500.7	15.0
DIESEL(C10-C24)	5.00	29695	33603	21896	26080	23330	24845	25775	26460.6	15.1
DIESEL(C10-C28)	5.00	29695	33603	21928	26105	23350	24872	25800	26478.8	15.0
SURROGATE	X	0.50X	1.00X	2.00X	3.00X	5.00X	7.00X	11.00X	MEAN	%RSD
BROMOBENZENE	20.00	-1	13517	14356	15142	13341	14495	14436	14214.3	4.7
HEXACOSANE	5.00	-1	29580	29371	31178	27128	28544	28106	28984.5	4.8

DS50A31.MET

Handwritten: 2/1/06

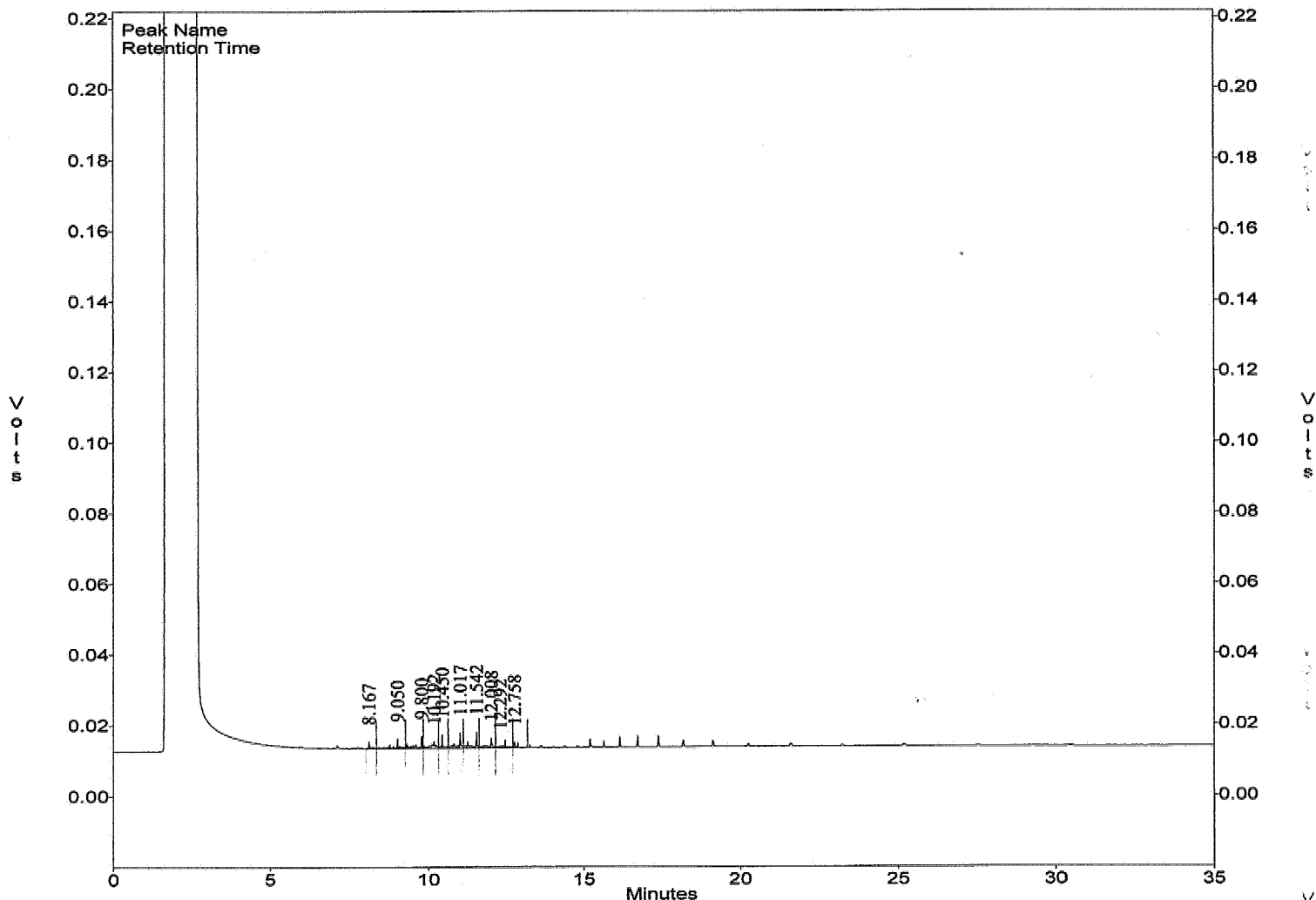
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.009
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : DS50A3101 5PPM
Acquired : Jan 31, 2006 19:57:35
Printed : Feb 01, 2006 09:34:38
User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Bromobenzene	5.283	0	0.0	0.0
--	Hexacosane	15.233	0	0.0	0.0
G1	Diesel (TOTAL)		148474	26500.7	5.0
G2	Diesel (C10-C24)		148474	26460.6	5.0
G3	Diesel (C10-C28)		148474	26478.8	5.0

c:\ezchrom\chrom\ta31\ta31.009 -- Channel A



JA
02/01/06

5022

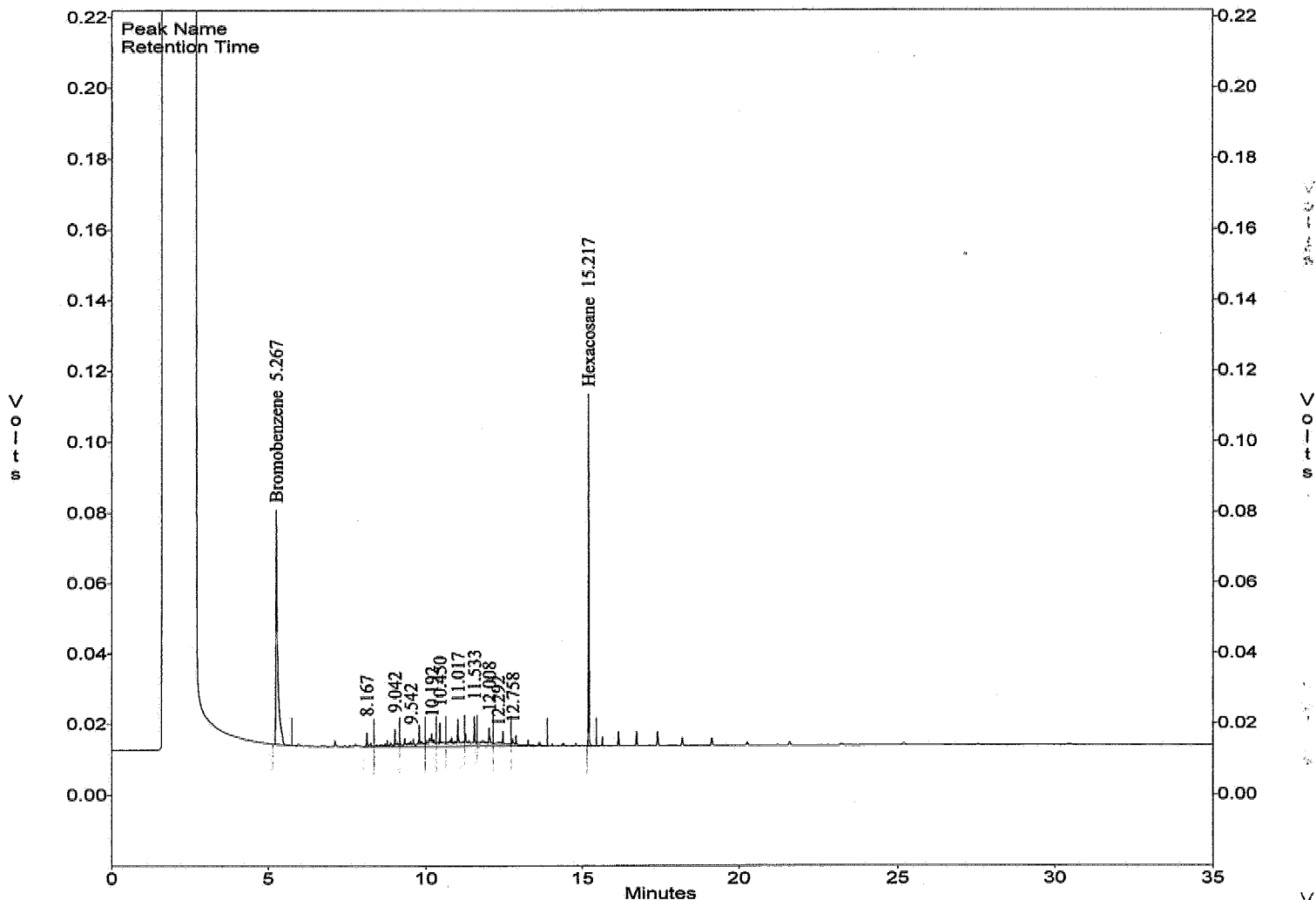
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.010
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3102 10/20/5
 Acquired : Jan 31, 2006 20:39:42
 Printed : Feb 01, 2006 09:34:43
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.267	270334	14214.3	20.0
12	Hexacosane	15.217	147901	28984.5	5.0
G1	Diesel (TOTAL)		336030	26500.7	10.0
G2	Diesel (C10-C24)		336030	26460.6	10.0
G3	Diesel (C10-C28)		336030	26478.8	10.0

c:\ezchrom\chrom\ta31\ta31.010 -- Channel A



DA
02/01/06

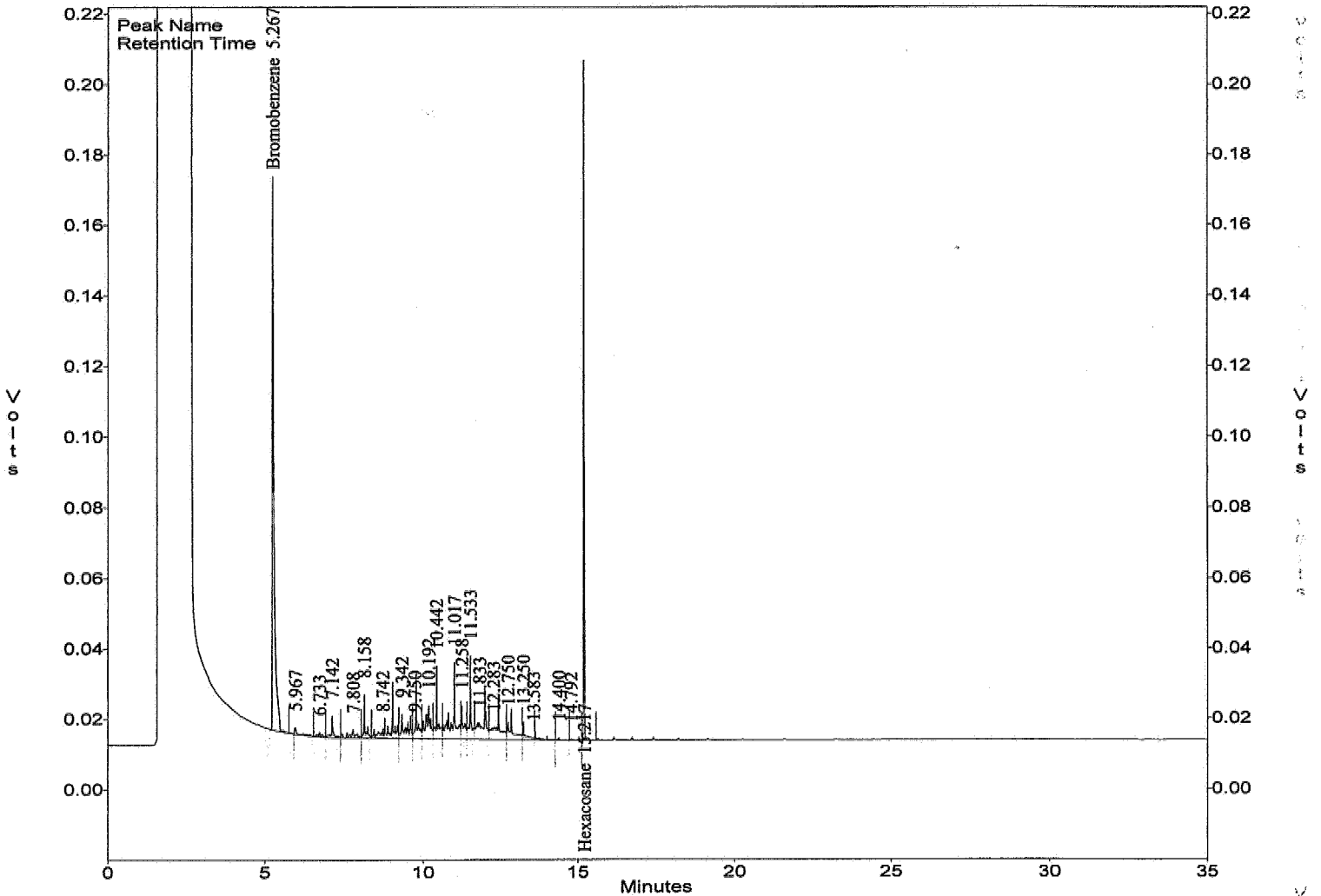
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.004
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3103 50/40/10
 Acquired : Jan 31, 2006 16:26:47
 Printed : Feb 01, 2006 09:34:49
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.267	574237	14214.3	40.0
22	Hexacosane	15.217	293707	28984.5	10.0
G1	Diesel (TOTAL)		1096379	26500.7	50.0
G2	Diesel (C10-C24)		1094793	26460.6	50.0
G3	Diesel (C10-C28)		1096379	26478.8	50.0

c:\ezchrom\chrom\ta31\ta31.004 -- Channel A



AS
02/01/06

5024

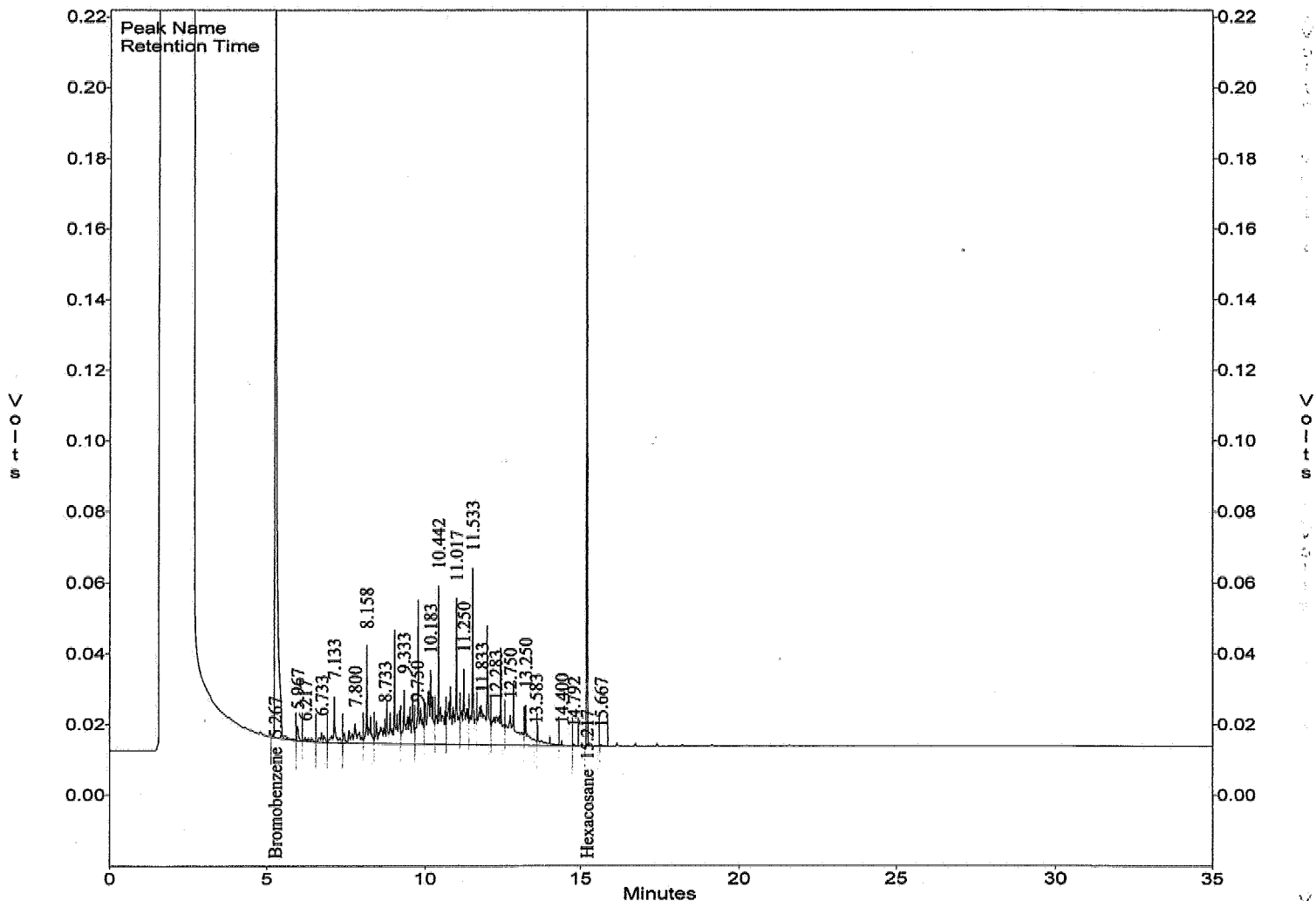
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.005
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3104 100/60/15
 Acquired : Jan 31, 2006 17:08:56
 Printed : Feb 01, 2006 09:35:08
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.267	908499	14214.3	60.0
23	Hexacosane	15.217	467670	28984.5	15.0
G1	Diesel (TOTAL)		2610524	26500.7	100.0
G2	Diesel (C10-C24)		2608042	26460.6	100.0
G3	Diesel (C10-C28)		2610524	26478.8	100.0

c:\ezchrom\chrom\ta31\ta31.005 -- Channel A



RA
02/01/06

5025

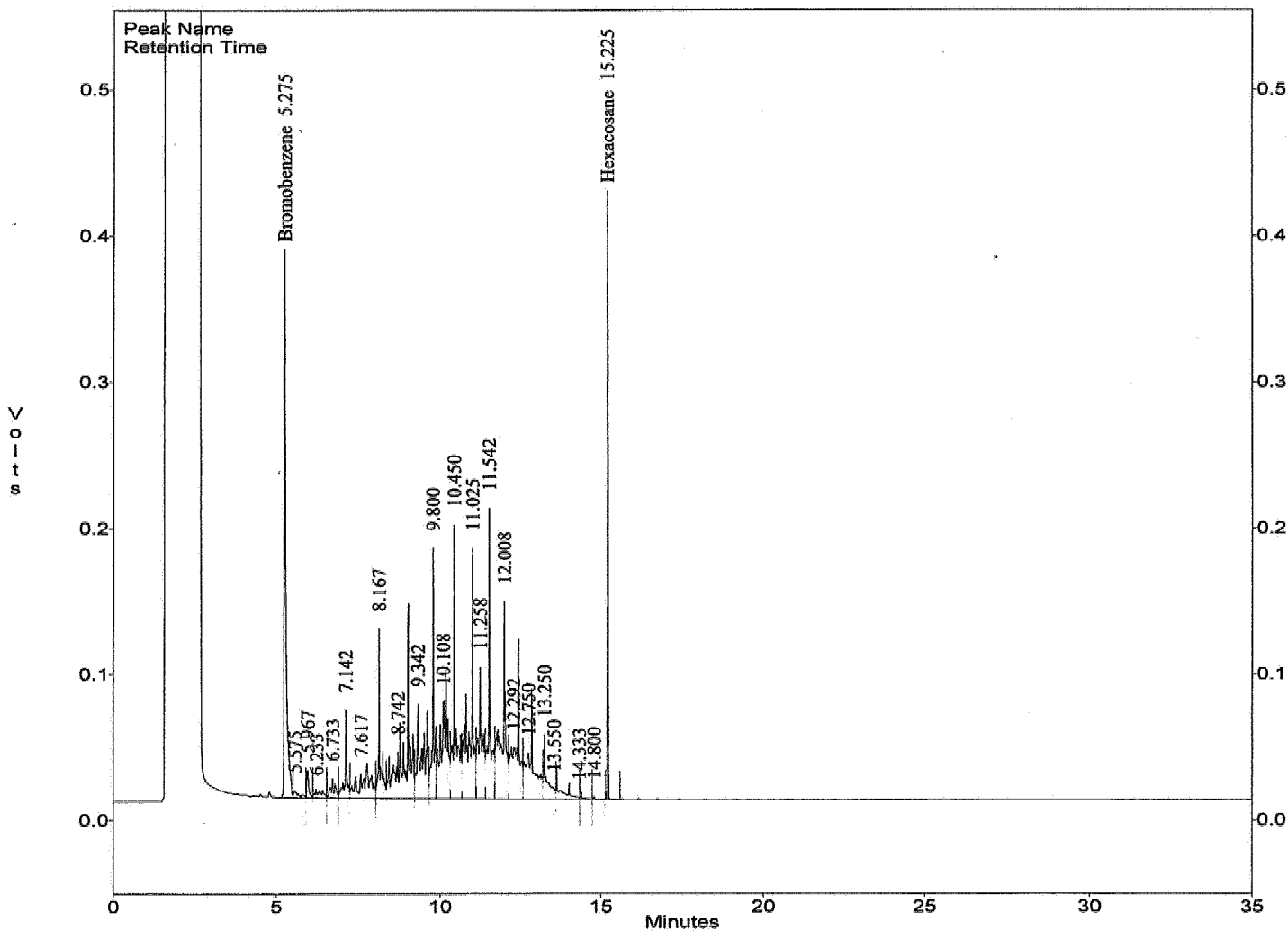
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.006
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3105 500/100/2
 Acquired : Jan 31, 2006 17:51:21
 Printed : Feb 01, 2006 09:35:17
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.275	1334115	14214.3	100.0
24	Hexacosane	15.225	678205	28984.5	25.0
G1	Diesel (TOTAL)		11674800	26500.7	500.0
G2	Diesel (C10-C24)		11665009	26460.6	500.0
G3	Diesel (C10-C28)		11674800	26478.8	500.0

c:\ezchrom\chrom\ta31\ta31.006 -- Channel A



AK
02/01/06
5026

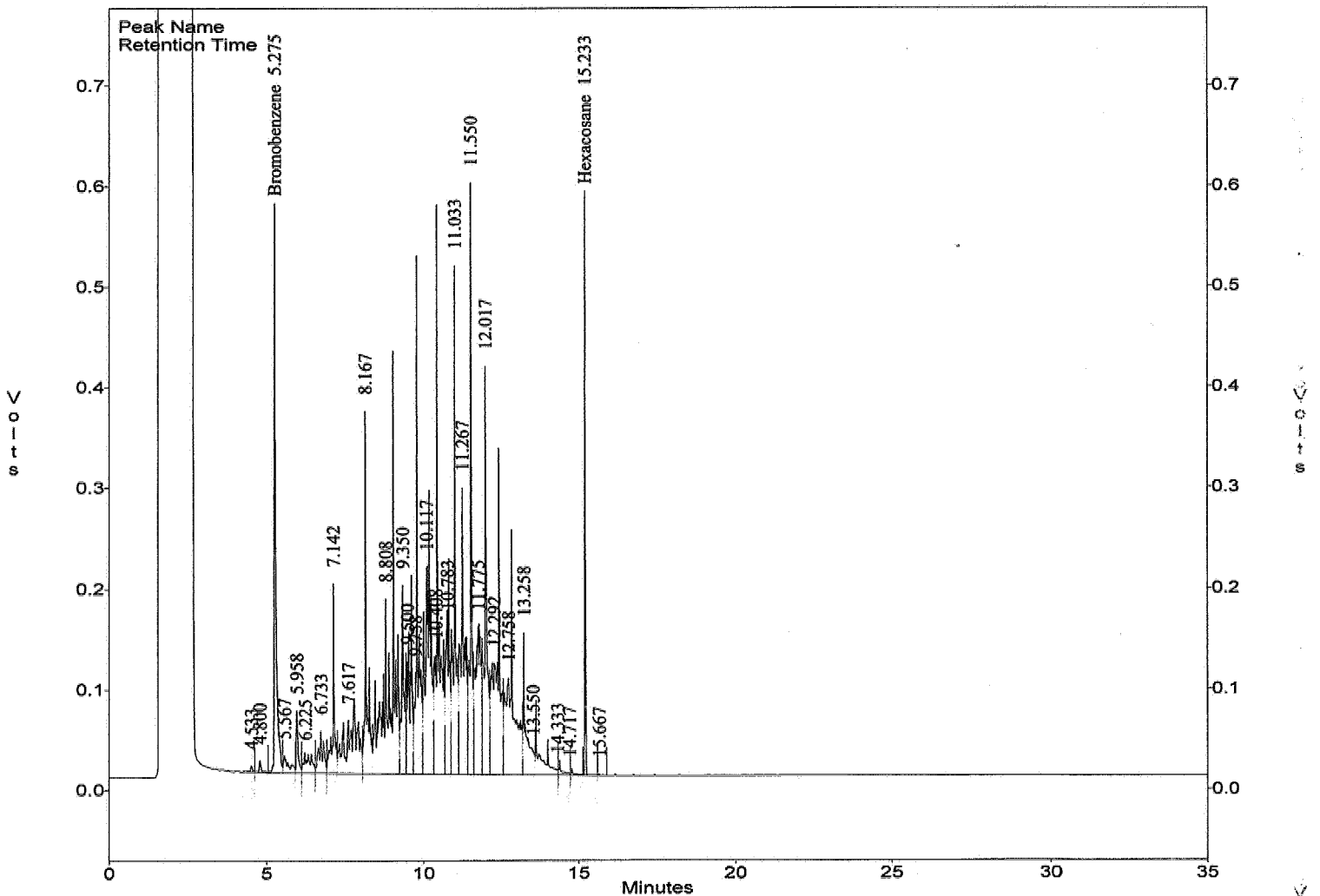
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.007
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3106 1500/140/
 Acquired : Jan 31, 2006 18:33:25
 Printed : Feb 01, 2006 09:35:43
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
3	Bromobenzene	5.275	2029250	14214.3	140.0
29	Hexacosane	15.233	999027	28984.5	35.0
G1	Diesel (TOTAL)		37395864	26500.7	1500.0
G2	Diesel (C10-C24)		37267404	26460.6	1500.0
G3	Diesel (C10-C28)		37307612	26478.8	1500.0

c:\ezchrom\chrom\ta31\ta31.007 - Channel A



AA
02/01/06
5027

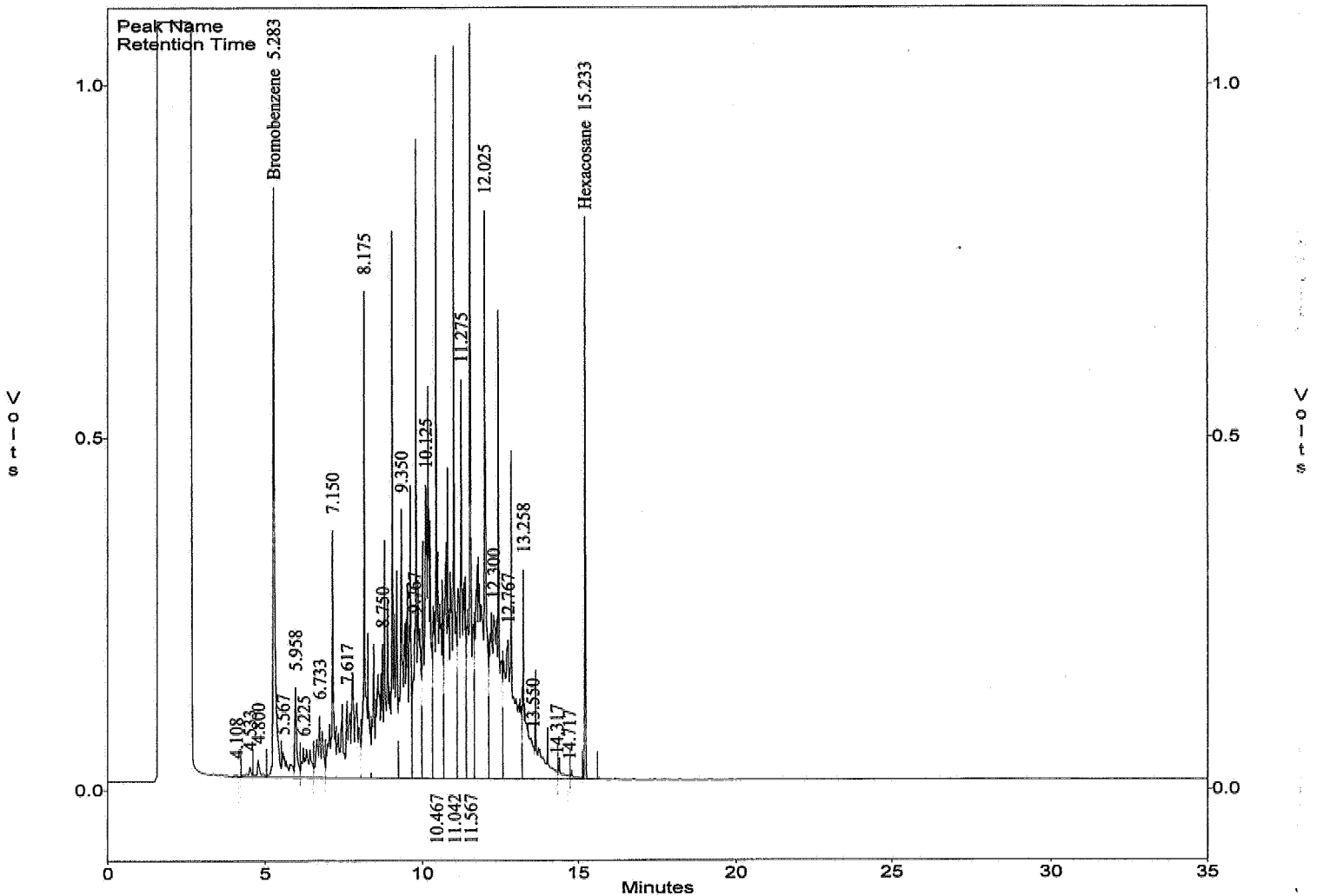
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.008
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : DS50A3107 3000/220/
 Acquired : Jan 31, 2006 19:15:30
 Printed : Feb 01, 2006 09:35:51
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
4	Bromobenzene	5.283	3175897	14214.3	220.0
27	Hexacosane	15.233	1545839	28984.5	55.0
G1	Diesel (TOTAL)		77682664	26500.7	3000.0
G2	Diesel (C10-C24)		77324912	26460.6	3000.0
G3	Diesel (C10-C28)		77399448	26478.8	3000.0

c:\ezchrom\chrom\ta31\ta31.008 -- Channel A



DA
2/21/06

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 LFID & Datetime: TA05019A 01/05/06 23:55
 LFID & Datetime: TA05020A 01/06/06 00:37
 LFID & Datetime: TA05021A 01/06/06 01:19
 LFID & Datetime: TA05022A 01/06/06 02:01
 LFID & Datetime: TA05023A 01/06/06 02:43
 LFID & Datetime: TA05024A 01/06/06 03:25
 LFID & Datetime: TA05025A 01/06/06 04:07 ✓
 CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT							MEAN	%RSD
		1.00X	2.00X	5.00X	50.00X	100.00X	150.00X	300.00X		
JP5	10.00	✓19089	21129	20033	✓24716	✓24172	✓25573	✓26612	✓23046.2	12.7
5W30	10.00	✓33589	✓31968	✓34659	✓32099	✓30917	✓30603	✓31346	✓32168.8	4.6

J550A05M.MET

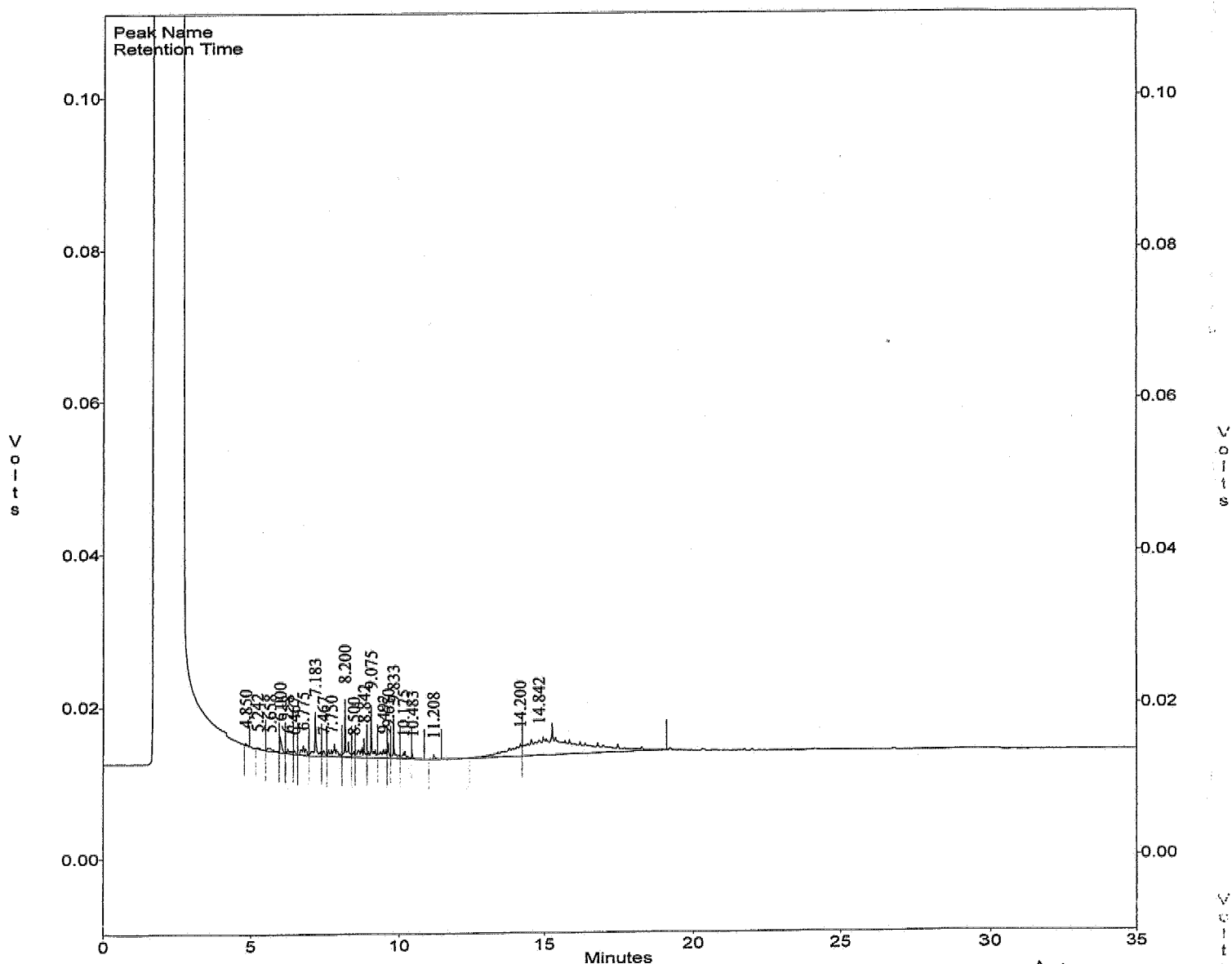
Handwritten: 1/9/06

File : c:\ezchrom\chrom\ta05\ta05.019 ✓
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M01 10PPM
 Acquired : Jan 05, 2006 23:55:57 ✓
 Printed : Jan 06, 2006 09:55:49
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		190889 ✓	23046.2	10.0
G2	5W30		335894 ✓	32168.8	10.0

c:\ezchrom\chrom\ta05\ta05.019 -- Channel A



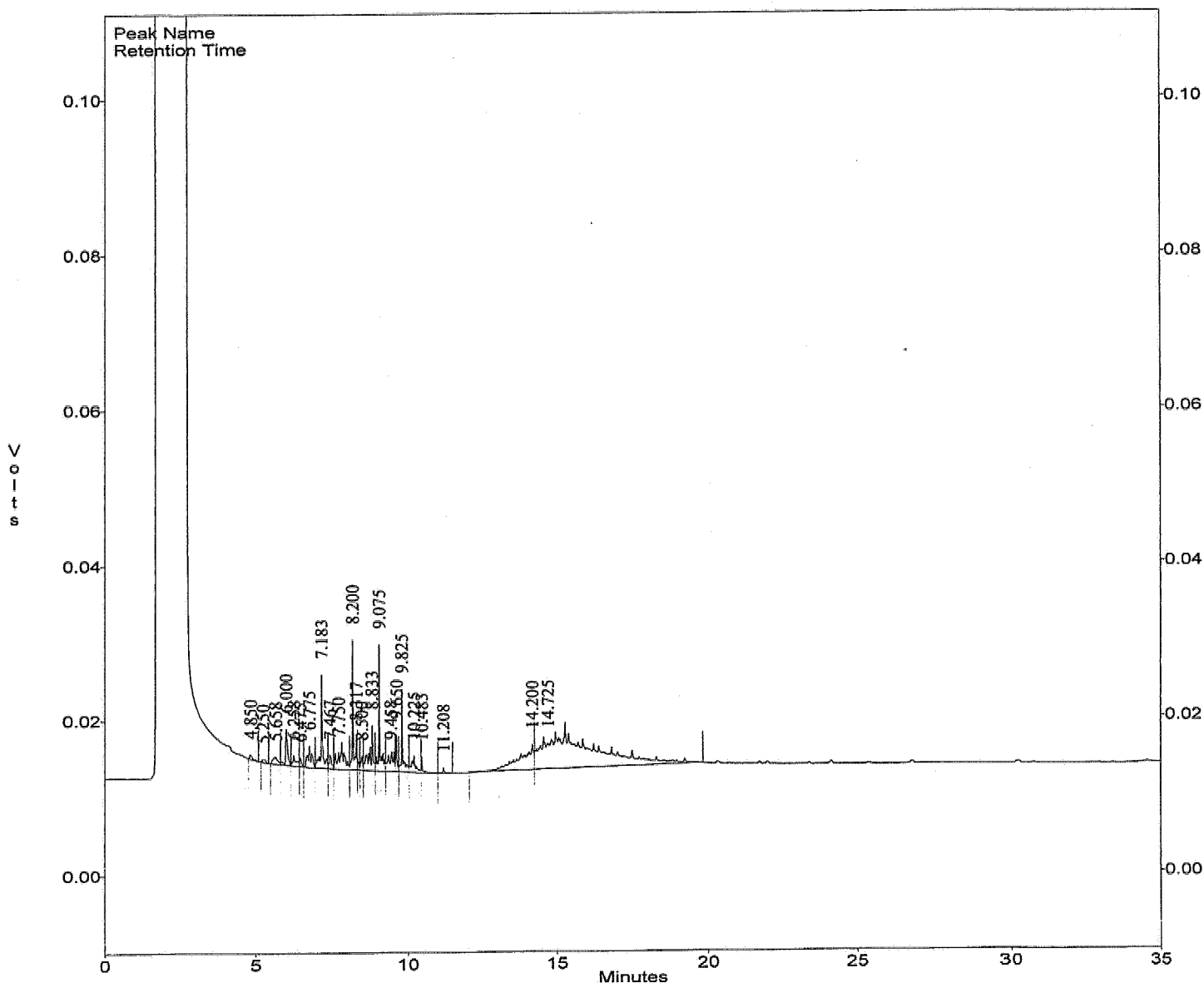
AK
1/9/06

File : c:\ezchrom\chrom\ta05\ta05.020
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M02 20PPM
 Acquired : Jan 06, 2006 00:37:56
 Printed : Jan 06, 2006 09:55:55
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		422586	23046.2	20.0
G2	5W30		639352	32168.8	20.0

c:\ezchrom\chrom\ta05\ta05.020 -- Channel A



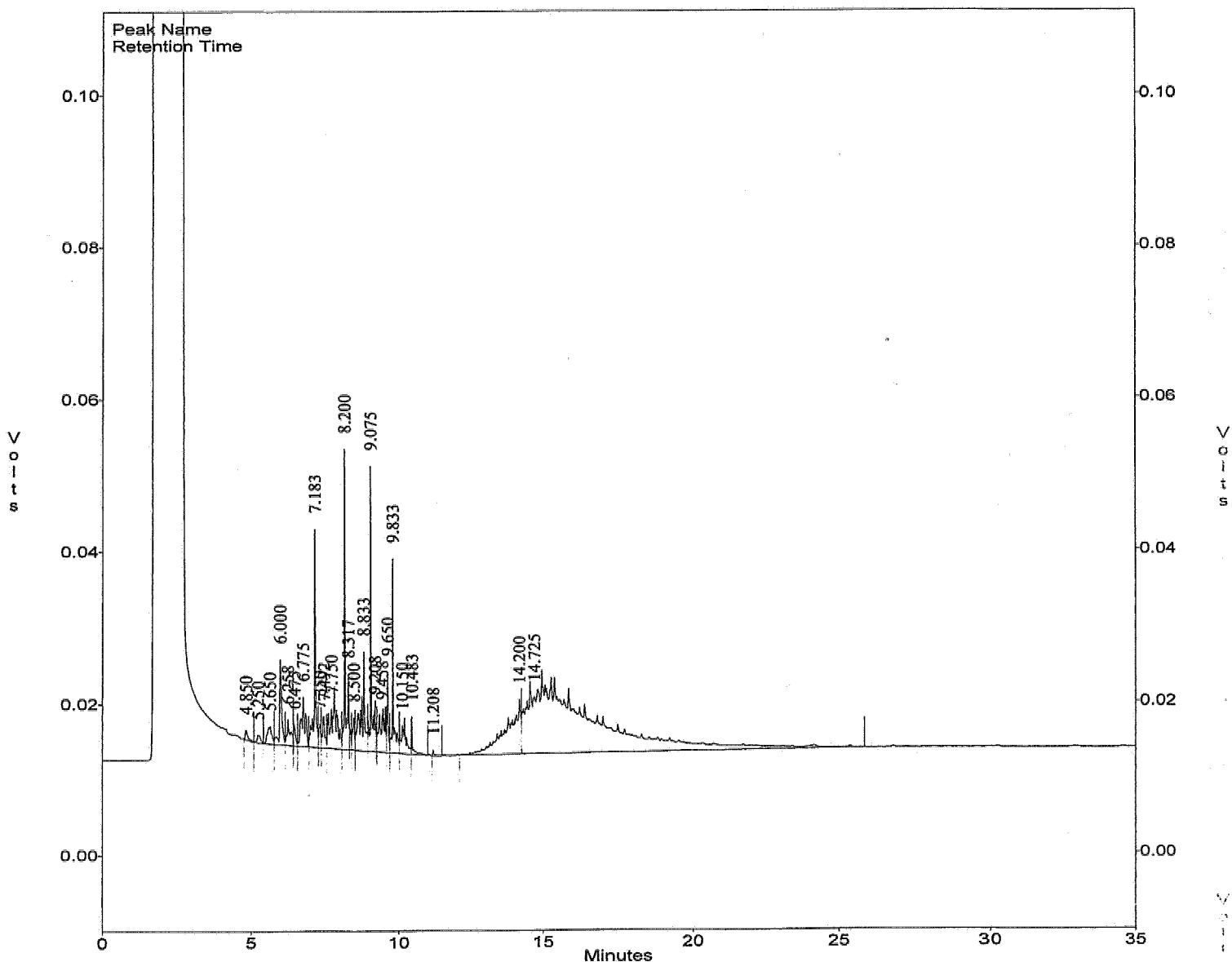
AS
1/9/06

File : c:\ezchrom\chrom\ta05\ta05.021
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M03 50PPM
 Acquired : Jan 06, 2006 01:19:54
 Printed : Jan 06, 2006 09:56:08
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		1001658 ✓	23046.2	50.0
G2	5W30		1732935 ✓	32168.8	50.0

c:\ezchrom\chrom\ta05\ta05.021 -- Channel A



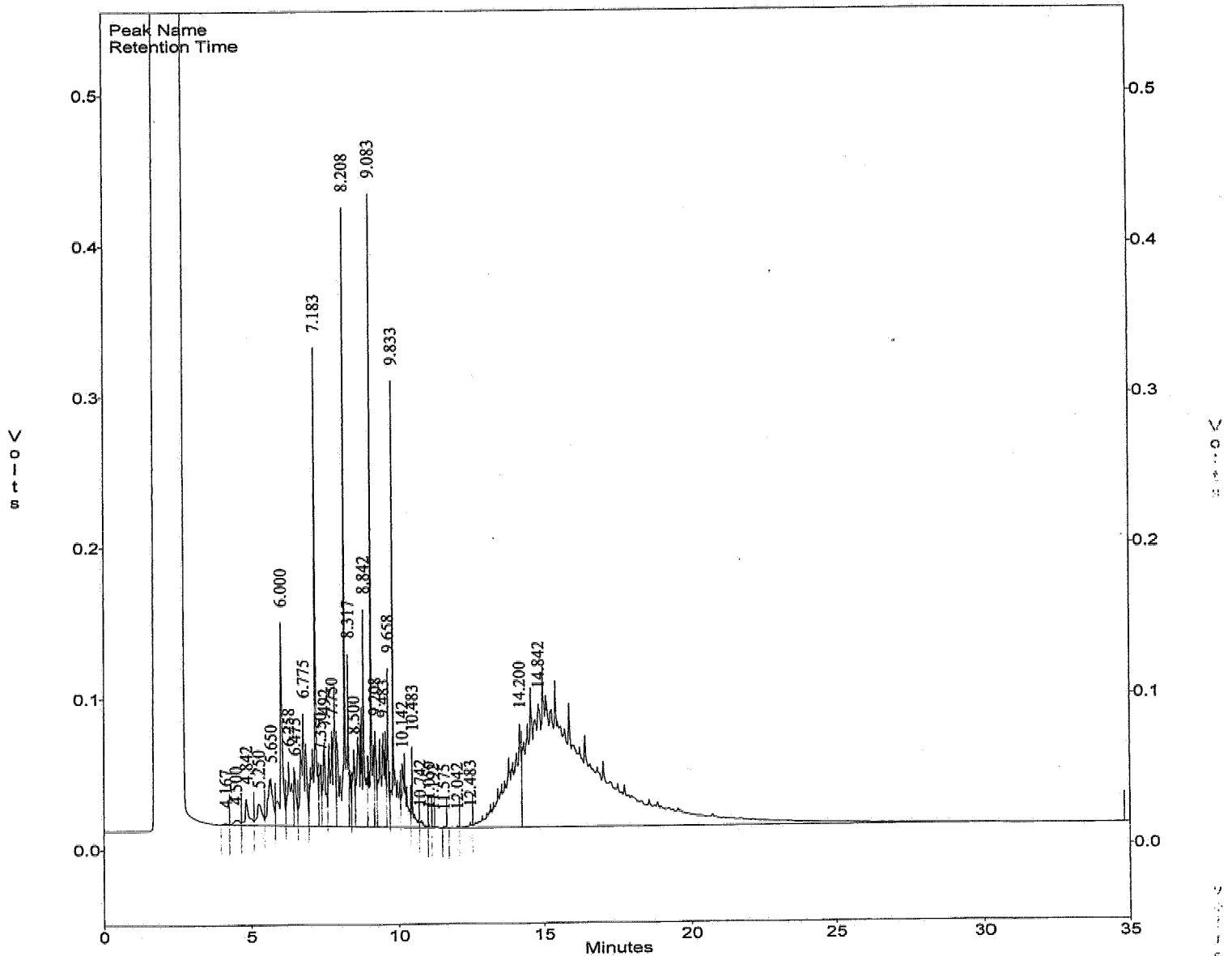
AS
1/9/06

File : c:\ezchrom\chrom\ta05\ta05.022
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M04 500PPM
 Acquired : Jan 06, 2006 02:01:52
 Printed : Jan 06, 2006 09:56:41
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		12357981 ✓	23046.2	500.0
G2	5W30		16049524 ✓	32168.8	500.0

c:\ezchrom\chrom\ta05\ta05.022 -- Channel A



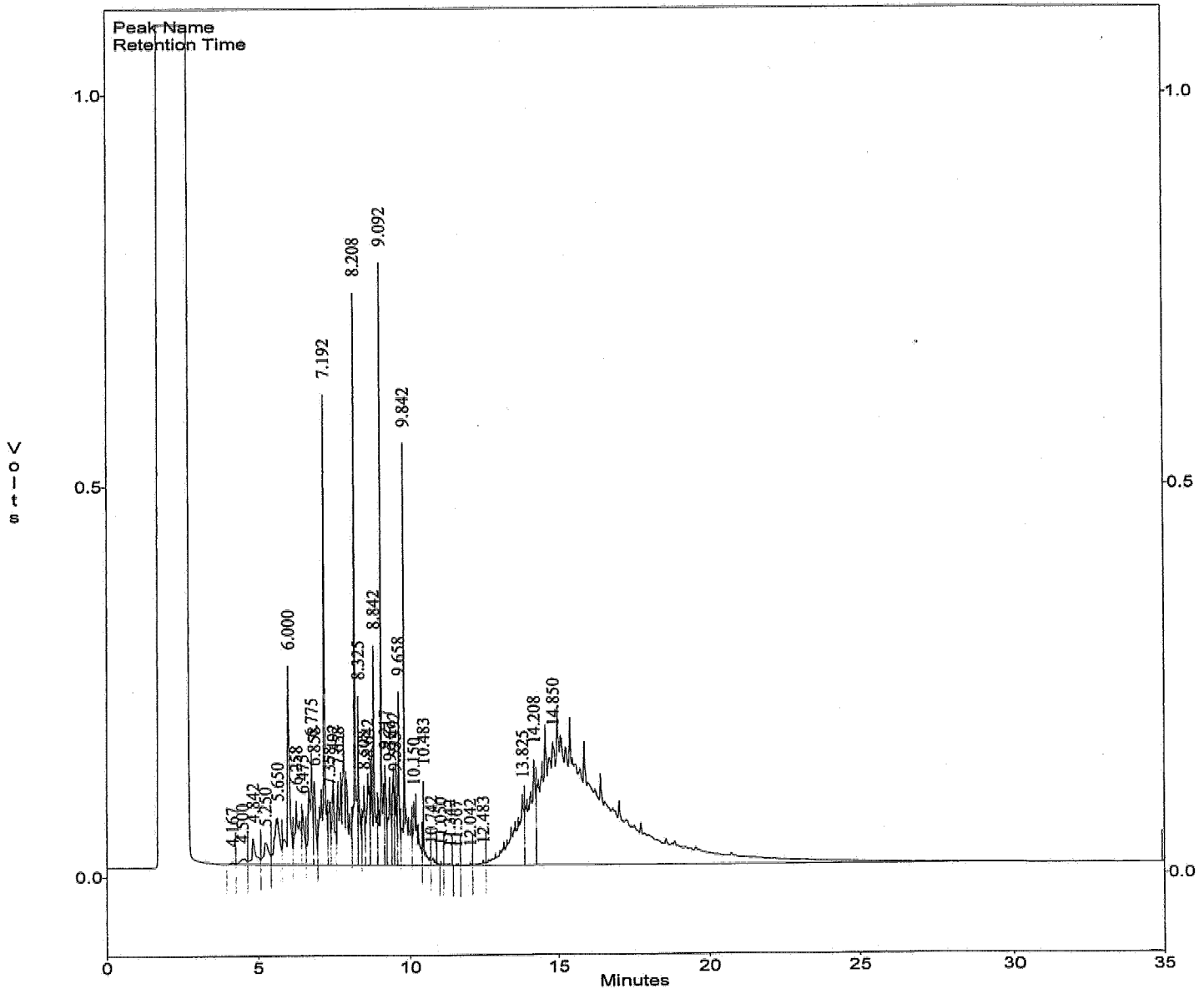
Handwritten: RA 1/9/06

File : c:\ezchrom\chrom\ta05\ta05.023
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M05 1000PPM
 Acquired : Jan 06, 2006 02:43:50
 Printed : Jan 06, 2006 09:57:19
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		24171588 ✓	23046.2	1000.0
G2	5W30		30917232 ✓	32168.8	1000.0

c:\ezchrom\chrom\ta05\ta05.023 -- Channel A



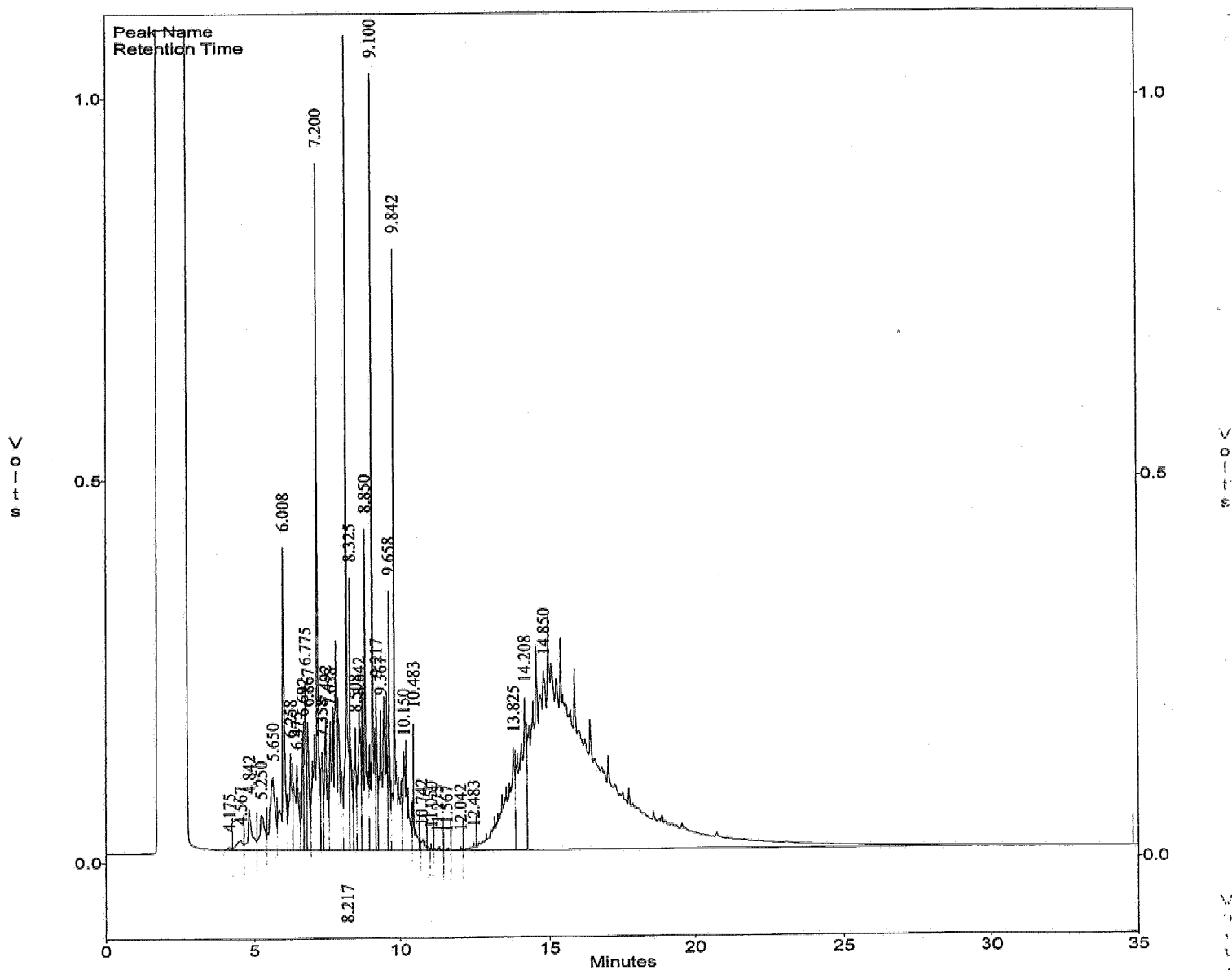
Handwritten signature
1/9/06

File : c:\ezchrom\chrom\ta05\ta05.024
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M06 1500PPM
 Acquired : Jan 06, 2006 03:25:48
 Printed : Jan 06, 2006 09:57:24
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		38358784	23046.2	1500.0
G2	5W30		45905100	32168.8	1500.0

c:\ezchrom\chrom\ta05\ta05.024 -- Channel A



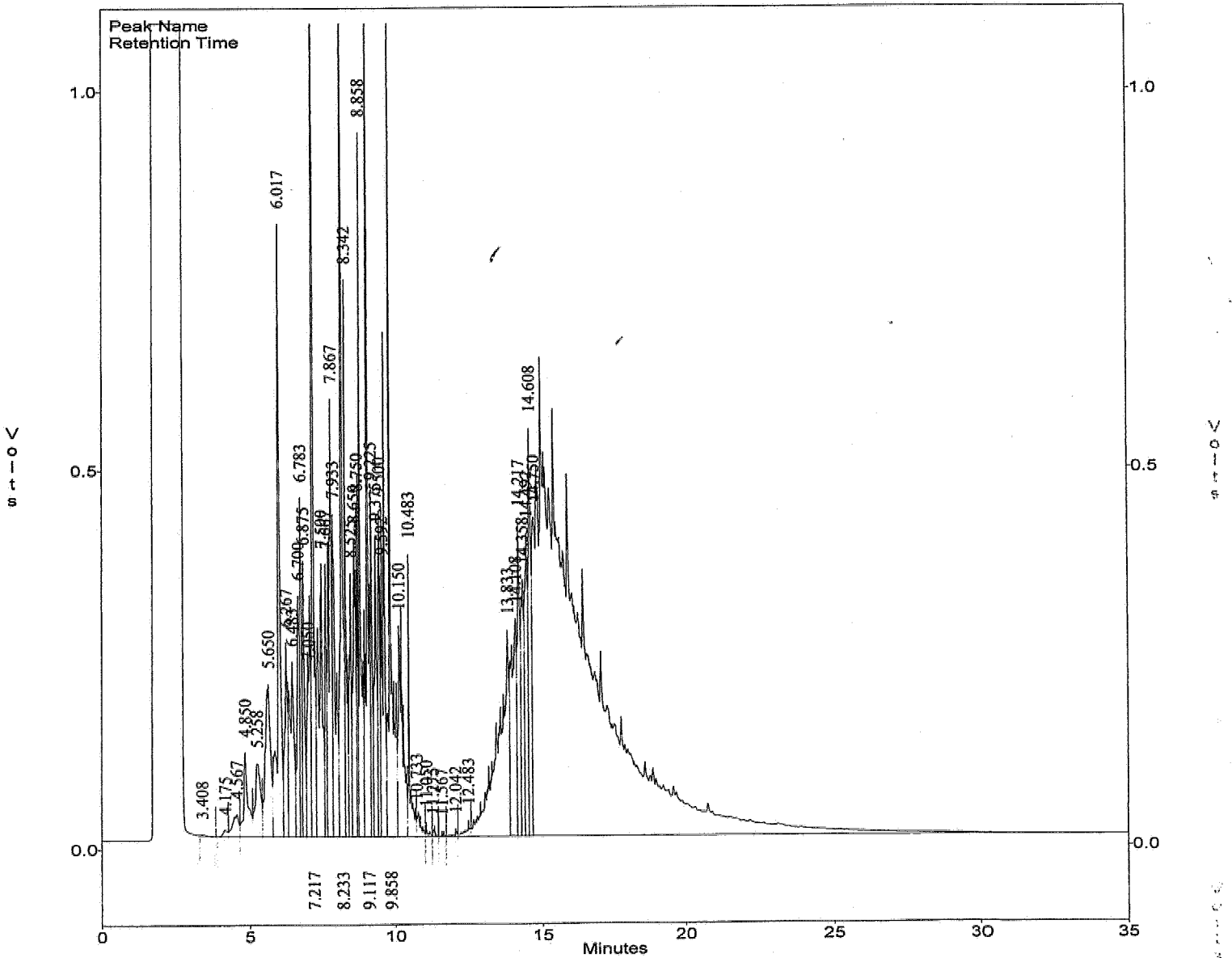
Handwritten signature
1/9/06

File : c:\ezchrom\chrom\ta05\ta05.025
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : J550A05M07 3000PPM
 Acquired : Jan 06, 2006 04:07:45
 Printed : Jan 06, 2006 09:57:28
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		79836656 ✓	23046.2	3000.0
G2	5W30		94039104 ✓	32168.8	3000.0

c:\ezchrom\chrom\ta05\ta05.025 - Channel A



LA
1/9/06
5036

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
 Conc Cont LFID & Datetime: TA31011A 01/31/2006 21:21
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT			QL	%D LIMITS
		FROM	TO			AREA	CONC	%D		
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	13255810	500.21	0		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	13131692	496.27	-1		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	13174570	497.55	-0		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.275	5.188	5.362	100.0	14214.3	1337667	94.11	-6		15
HEXACOSANE	15.225	14.892	15.558	25.0	28984.5	687118	23.71	-5		15

DS50A31.MET

RS
02/01/06
5038

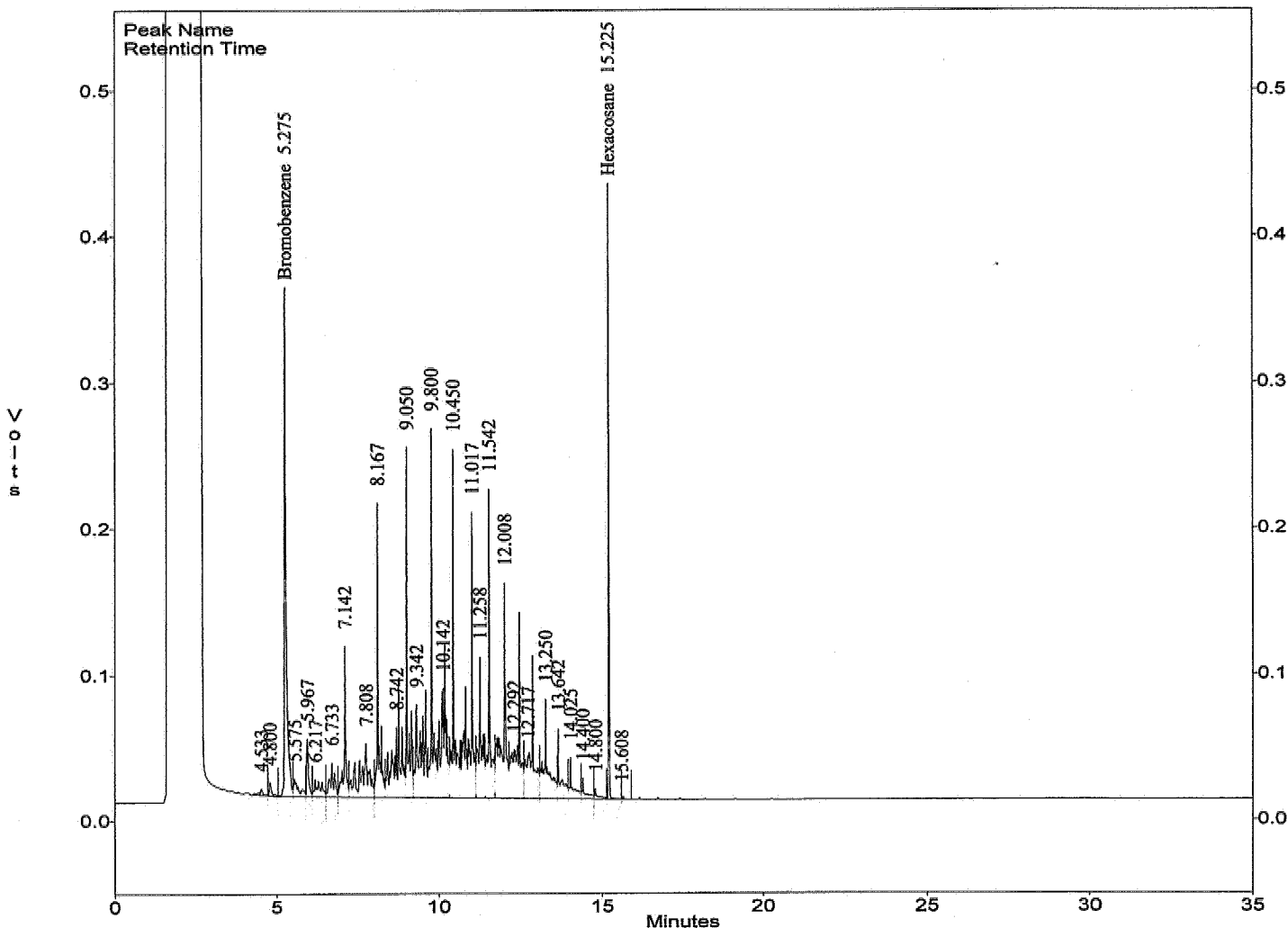
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.011
Method : c:\ezchrom\methods\ds50a31.met
Sample ID : IDS50A3101 500PPM
Acquired : Jan 31, 2006 21:21:44
Printed : Feb 01, 2006 09:36:17
User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
3	Bromobenzene	5.275	1337667	14214.3	94.1
28	Hexacosane	15.225	687118	28984.5	23.7
G1	Diesel (TOTAL)		13255810	26500.7	500.2
G2	Diesel (C10-C24)		13131692	26460.6	496.3
G3	Diesel (C10-C28)		13174570	26478.8	497.6

c:\ezchrom\chrom\ta31\ta31.011 - Channel A



DA
02/01/06

5039

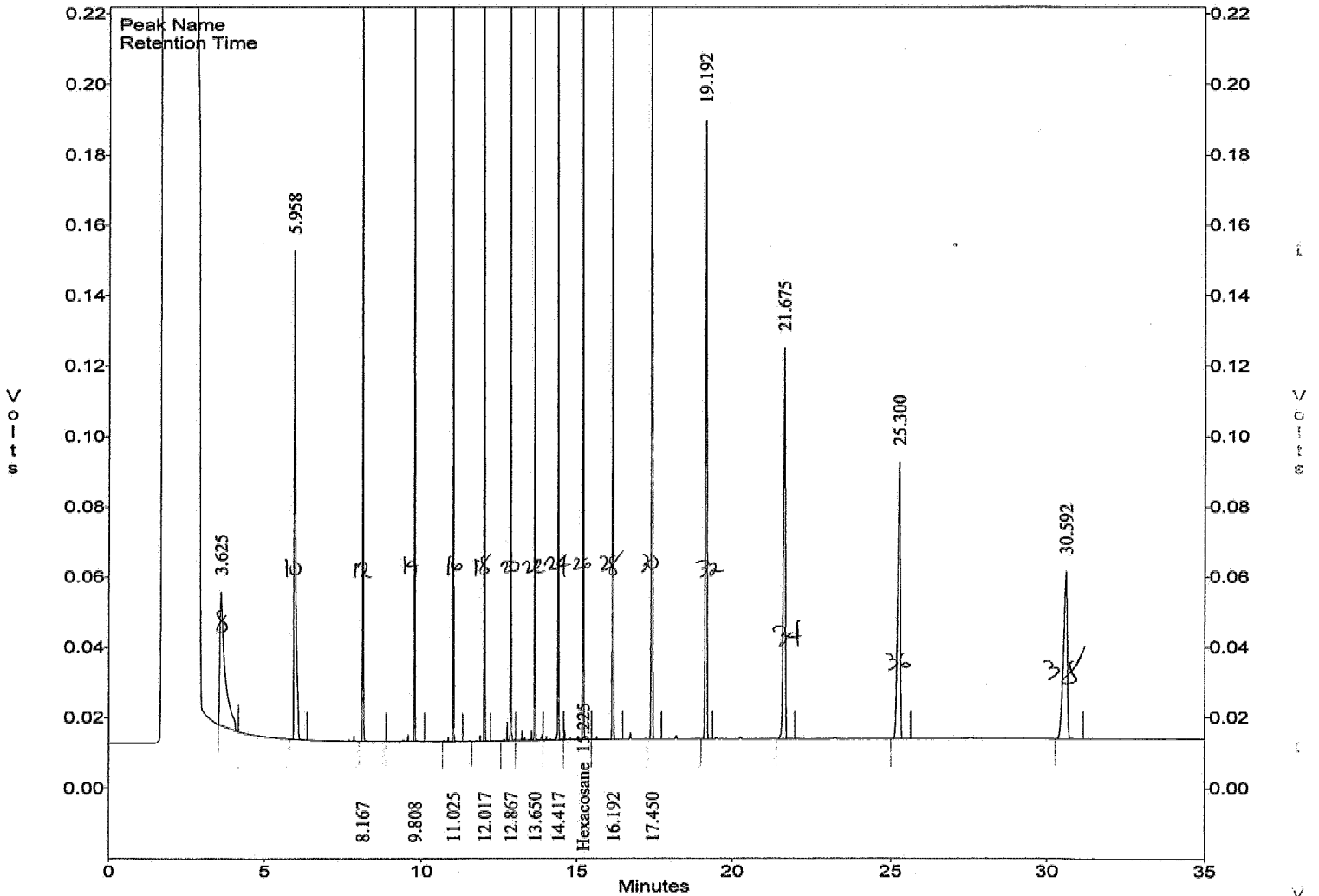
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta31\ta31.013
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : HC-CHAIN
 Acquired : Jan 31, 2006 22:45:44
 Printed : Feb 01, 2006 09:38:59
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Bromobenzene	5.283	0	0.0	0.0
10	Hexacosane	15.225	612551	28984.5	21.1
G1	Diesel (TOTAL)		7808933	26500.7	294.7
G2	Diesel (C10-C24)		4312145	26460.6	163.0
G3	Diesel (C10-C28)		4904687	26478.8	185.2

c:\ezchrom\chrom\ta31\ta31.013 - Channel A



At
02/01/06

5040

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
 Conc Cont LFID & Datetime: TA05026A 01/06/2006 04:49
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
JPS	0.000	0.000	0.000	500.0	23046.2	11649619	505.49	1		15
5W30	0.000	0.000	0.000	500.0	32168.8	16021303	498.04	-0		15

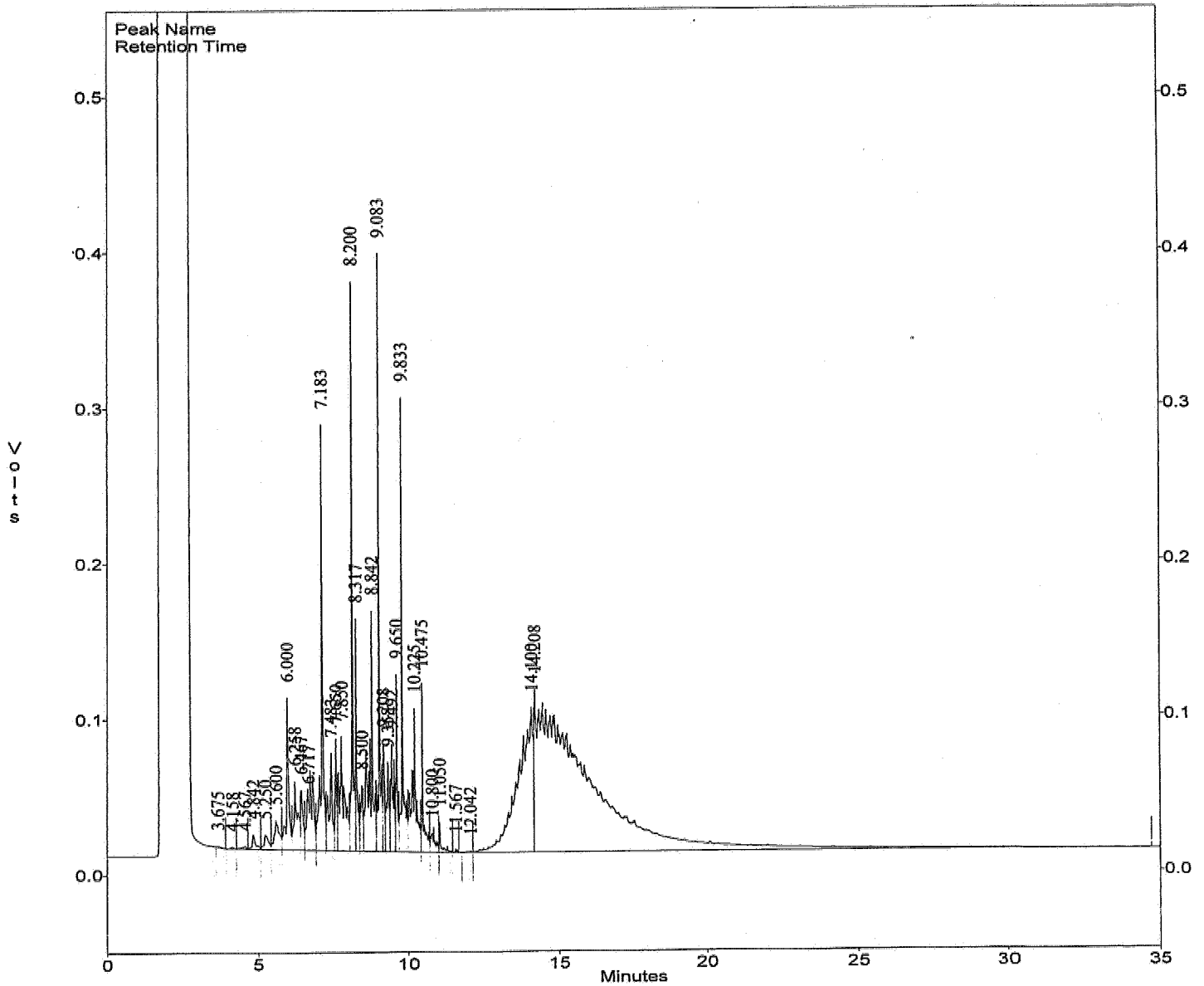
J550A05M.MET

File : c:\ezchrom\chrom\ta05\ta05.026
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : IJ550A05M01 500PPM
 Acquired : Jan 06, 2006 04:49:39
 Printed : Jan 06, 2006 09:57:56
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		11649619	23046.2	505.5
G2	5W30		16021303	32168.8	498.0

c:\ezchrom\chrom\ta05\ta05.026 -- Channel A



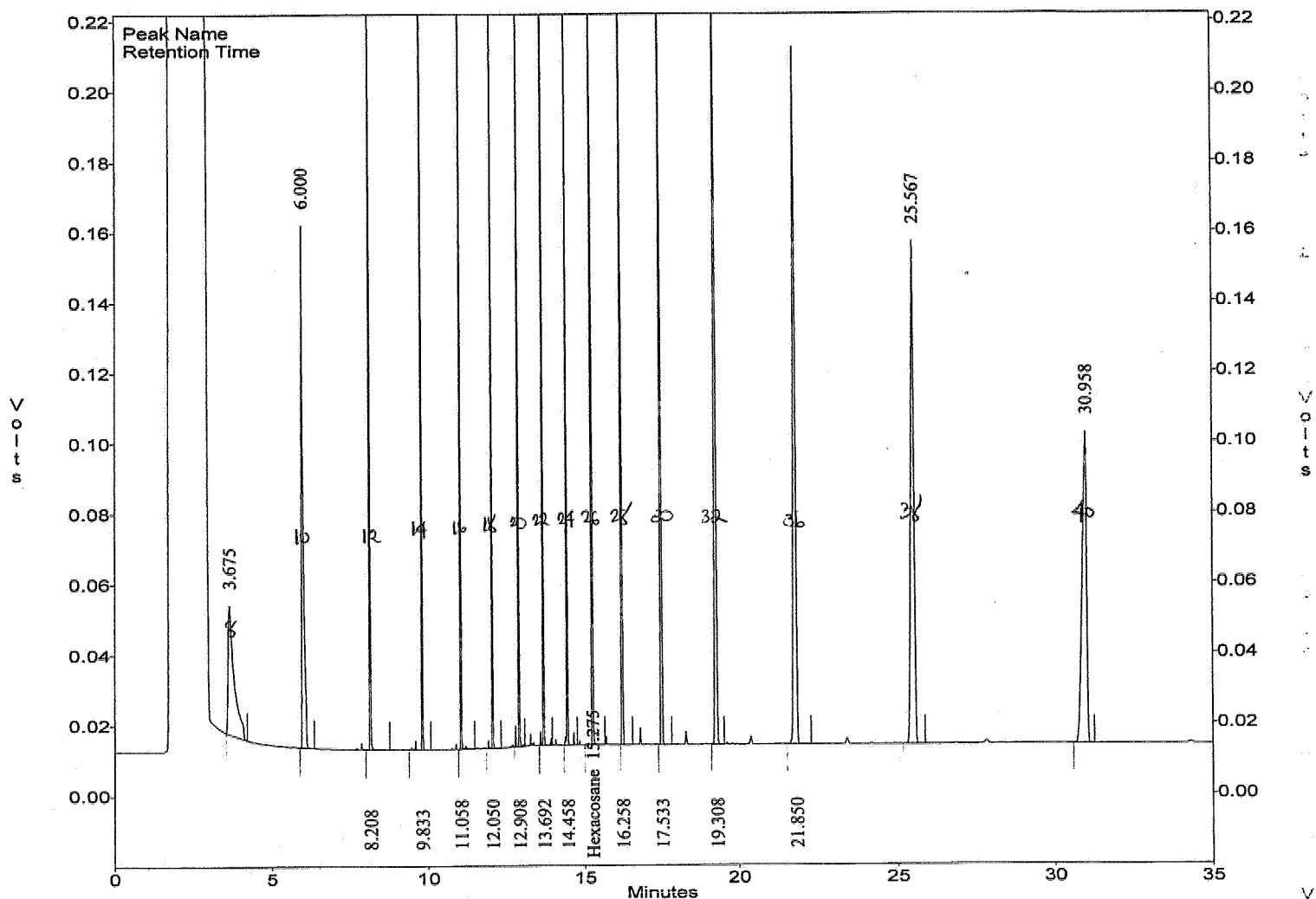
METHOD 8015 BY GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\ta05\ta05.028
 Method : c:\ezchrom\methods\ds50k28.met
 Sample ID : HC-CHAIN
 Acquired : Jan 06, 2006 06:13:28
 Printed : Jan 06, 2006 09:49:23
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Bromobenzene	5.350	0	0.0	0.0
10	Hexacosane	15.275	785899	31441.2	25.0
G1	Diesel (TOTAL)		10840643	25617.3	423.2
G2	Diesel (C10-C24)		5027696	25569.5	196.6
G3	Diesel (C10-C28)		5789143	25586.1	226.3

c:\ezchrom\chrom\ta05\ta05.028 -- Channel A



DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
 Conc Cont LFID & Datetime: TC28004A 03/28/2006 16:22
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	11892436	448.76	-10		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	11783090	445.31	-11		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	11805857	445.86	-11		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	5.167	5.080	5.254	100.0	14214.3	1399105	98.43	-2		15
HEXACOSANE	15.092	14.759	15.425	25.0	28984.5	801272	27.65	11		15

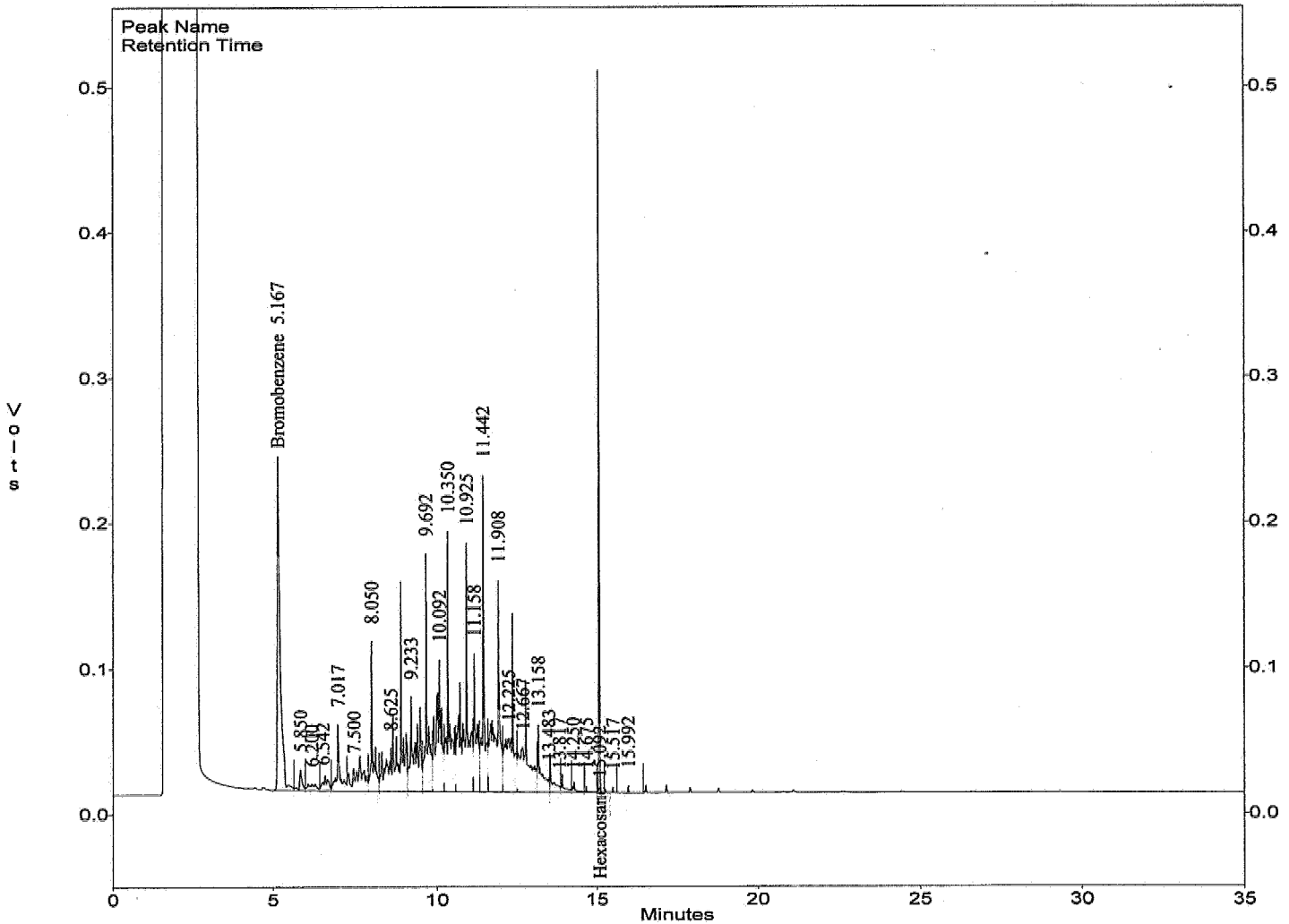
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\tc28.004
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : CDS50A31619 D500
 Acquired : Mar 28, 2006 16:22:42
 Printed : Mar 29, 2006 14:59:12
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Bromobenzene	5.167	1399105	14214.3	98.4
24	Hexacosane	15.092	801272	28984.5	27.6
G1	Diesel (TOTAL)		11892436	26500.7	448.8
G2	Diesel (C10-C24)		11783090	26460.6	445.3
G3	Diesel (C10-C28)		11805857	26478.8	445.9

c:\ezchrom\chrom\tc28\tc28.004 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
 Conc Cont LFID & Datetime: TC28005A 03/28/2006 17:04
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
JP5	0.000	0.000	0.000	500.0	23046.2	10511094	456.09	-9		15
5W30	0.000	0.000	0.000	500.0	32168.8	14763198	458.93	-8		15

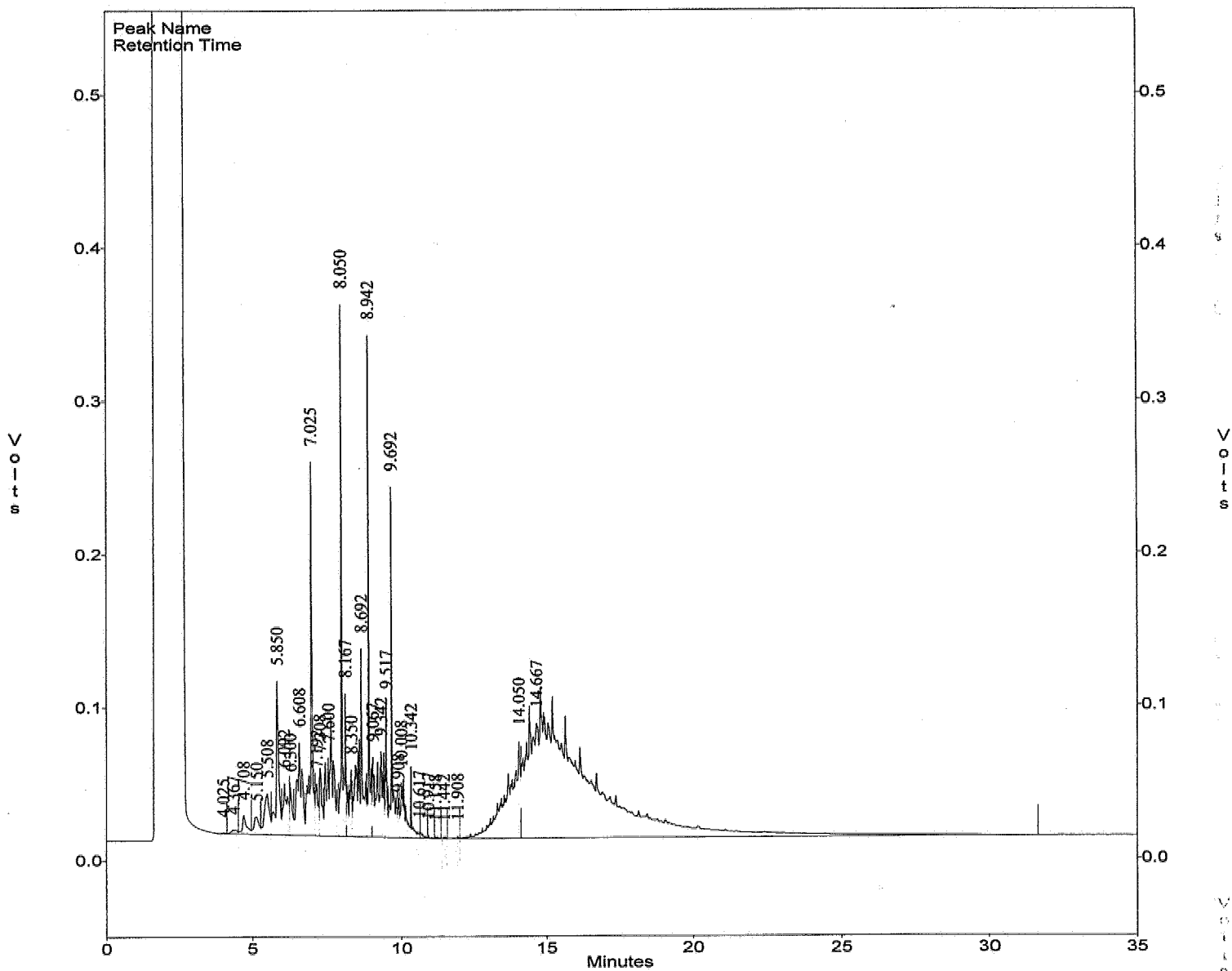
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\tc28.005
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : CJ550A05M620 JP5/MO
 Acquired : Mar 28, 2006 17:04:23
 Printed : Mar 29, 2006 14:59:21
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		10511094	23046.2	456.1
G2	5W30		14763198	32168.8	458.9

c:\ezchrom\chrom\tc28\tc28.005 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA31006A 01/31/2006 17:51
 Conc Cont LFID & Datetime: TC28016A 03/29/2006 00:44
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT			QL	%D LIMITS
		FROM	TO			AREA	CONC	%D		
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
DIESEL(TOTAL)	0.000	0.000	0.000	500.0	26500.7	11521866	434.78	-13		15
DIESEL(C10-C24)	0.000	0.000	0.000	500.0	26460.6	11407165	431.10	-14		15
DIESEL(C10-C28)	0.000	0.000	0.000	500.0	26478.8	11423238	431.41	-14		15
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
BROMOBENZENE	5.167	5.080	5.254	100.0	14214.3	1330850	93.63	-6		15
HEXACOSANE	15.083	14.750	15.416	25.0	28984.5	769169	26.54	6		15

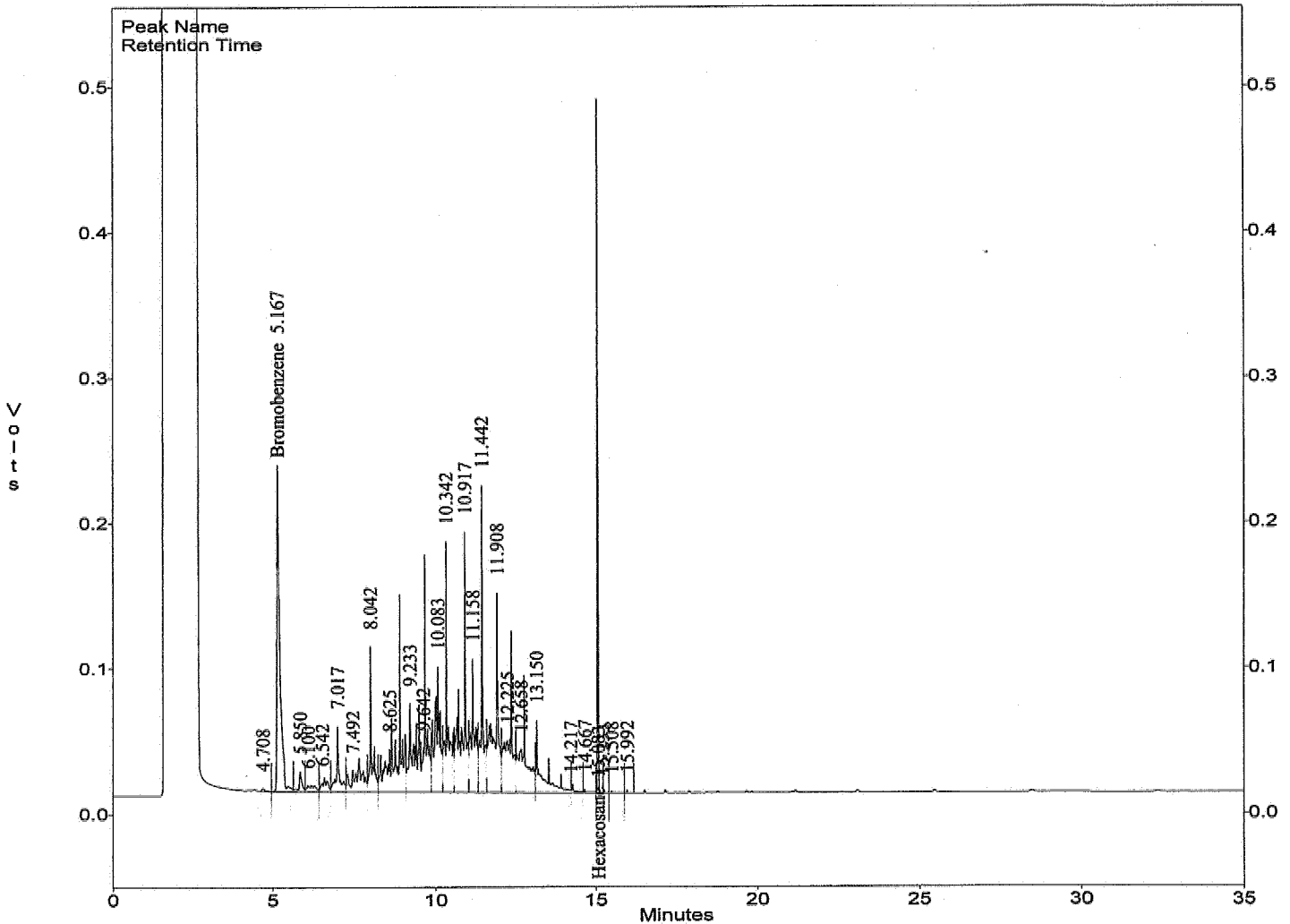
METHOD 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\tc28.016
 Method : c:\ezchrom\methods\ds50a31.met
 Sample ID : CDS50A31621 D500
 Acquired : Mar 29, 2006 00:44:08
 Printed : Mar 29, 2006 15:15:34
 User : JANE

Channel A Results

#	Peak Name	Ret. Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
2	Bromobenzene	5.167	1330850	14214.3	93.6
23	Hexacosane	15.083	769169	28984.5	26.5
G1	Diesel (TOTAL)		11521866	26500.7	434.8
G2	Diesel (C10-C24)		11407165	26460.6	431.1
G3	Diesel (C10-C28)		11423238	26478.8	431.4

c:\ezchrom\chrom\tc28\tc28.016 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT050
 GC Column : DB-5
 Column size ID : 30MX0.25MM
 Mid Conc Init LFID & Datetime: TA05022A 01/06/2006 02:01
 Conc Cont LFID & Datetime: TC28017A 03/29/2006 01:25
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
JP5	0.000	0.000	0.000	500.0	23046.2	10669033	462.94	-7		15
5W30	0.000	0.000	0.000	500.0	32168.8	14976449	465.56	-7		15

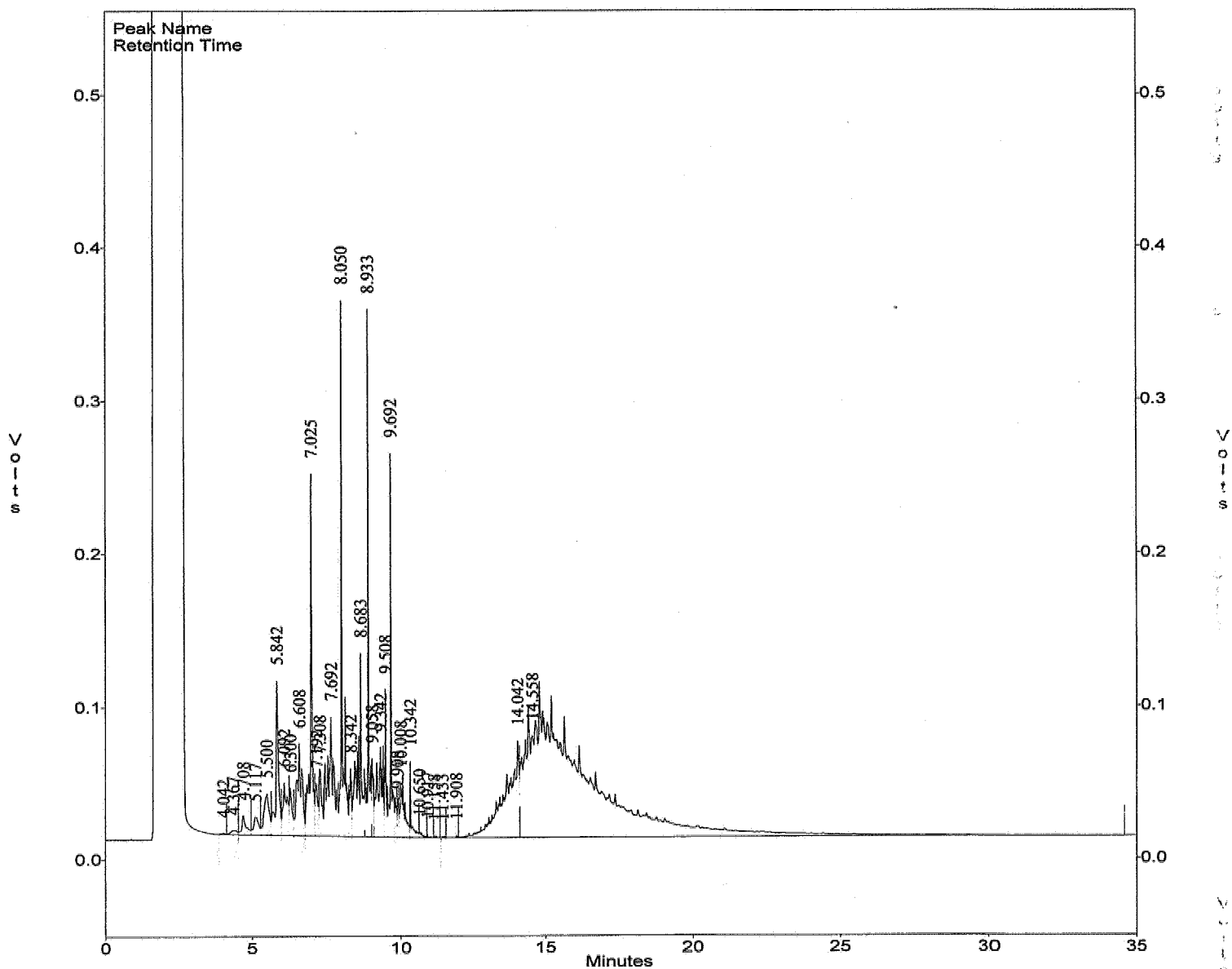
METHOD 8015 by GC/FID
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\tc28\tc28.017
 Method : c:\ezchrom\methods\j550a05m.met
 Sample ID : CJ550A05M622 JP5/MO
 Acquired : Mar 29, 2006 01:25:46
 Printed : Mar 29, 2006 15:15:43
 User : JANE

Channel A Results

#	Peak Name	Ret.Time (Min)	Area	Ave. CF	ESTD Conc. (ppm)
G1	JP5		10669033	23046.2	462.9
G2	5W30		14976449	32168.8	465.6

c:\ezchrom\chrom\tc28\tc28.017 -- Channel A



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP EMAX-M8015D Revision No. 3 EMAX-LUFTE Revision No. 3 Book # A50-02

Starting Date: 01-05-06 Time: 22:31 Ending Date: 01-06-06 Time: 07:37

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes
				S	W	
	TA05-01H	TEST				
	.018	1820A233				
	.019	U550A05M 01			10 PPM	
	.020				20	
	.021				50	
	.022				500	
	.023				1000	
	.024				1500	
	.025				3000	
	.026	U550A05M 01			500	1 JP5 + 5W30 10W
	.027	↓			1500	↓
	.028	HC-CHAIN				
	.029	MeCl2				
	↓ .030	MeCl2				

ANALYTICAL BATCH 111

Instrument No: 50	
INITIAL CALIBRATION REFERENCE	
Diesel	ID
Motor oil	
JP 5	
JP5 + 5W30	U550A05M
01-05	
Standards	
Name	ID
CH ₂ Cl ₂	45209
DOC	
JP5 + 5W30 10W	SS3B-07-01-1
JP5 10W	SS3B-06-35-3
5W30 10W	SS3B-06-69-3
Conc. (mg/L)	10-300
	50-100
	50-100

Electronic Data Archival	
Location	Date
<input type="checkbox"/> EZC_1_Diesel	
<input type="checkbox"/>	

Comments: _____

Analyzed By: g

Disposed on: 01-06-06 By: g

ANALYSIS RUN LOG FOR TPH

SOP EMAX-M8015D Revision No. 3 EMAX-LUFTE Revision No. 3 Book # A50-023

Starting Date: 23.28.06 Time: 14:17 Ending Date: 23.29.06 Time: 06:58

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes
				S	W	
	7028.001	TEST				
	002	↓				
	003	18500619				
	004	06500431619				D300
	005	05500405M620				JPT/SIN30; 300 PPM
D50024W	006	D50024W131015	1		✓	W/BSTEL
	007	↓				↓
	008	↓				
	009	060202.01				
	010	01M				
	011	015				
	012	02				
	013	03				
	014	060239.01				
	015	060219.05			✓	
	016	05500431621				D300
	017	05500405M622				JPT/SIN30; 300 PPM
D50024W	018	060219.10	1		✓	
	019	↓				
	020	060226.01				
	021	↓				
	022	060554.01				
	023	↓				
	024	060219.02				yellowish
	025	060219.00				
	026	↓				

ANALYTICAL BATCH 05500431619

Instrument No:		50
INITIAL CALIBRATION REFERENCE		
Diesel	ID	Date
	D500431	9/3/06
Motor oil	ID	Date
JPT/SIN30	J5500405M	9/8/06

Standards		
Name	ID	Conc. (mg/L)
CH ₂ Cl ₂	45242	pure
DOC DL	5530-07-16-1	500
JPT/SIN30 DC	5530-07-16-2	500

Electronic Data Archival	
Location	Date
<input type="checkbox"/> E2C_1_Diesel	
<input type="checkbox"/>	

Comments: _____

Analyzed By: jo

Disposed on: 23/29/06 By: jo

EXTRACTION LOGS

EXTRACTION LOG FOR TPH

SOP EMAX-3550 Rev. No. 1 EMAX-3520 Rev. No. 2 EMAX-LUFT E Rev. No. 1 EMAX-3540 Rev. No. 0 EMAX-3510 Rev. No. 1
 Matrix: WATER Start Date: 3/27/06 End Date: 3/28/06 Time: 12:00 Time: 6:00 Book # EDS-027

Sample Prep ID	Lab Sample ID	Sonicator Number	Sample Amount (g ml)	Extract Volume (ml)	Silica Gel Clean-up	Notes	Standards	ID	Amount Added (ml)
01	DSC 024 - WB	N/A	1000	10	Silica gel	* DSC 025 WB	Surrogate	SS3C-07-04-1	1.0
02	- WB		1000	10	↓	WL	LCS/MS	SS3C-07-04-3	1.0
03	- WC		1000	10	↓	WC	Reagent		
04	06C 210 - 03		1060	10	Silica gel	light yellow soln	CH ₂ Cl ₂	45342	
05	- 04		1060	10	↓		Na ₂ SO ₄	45045	
06	- 05		1060	10	↓		HCl	45105	
07	06C 222 - 01		1060	10		light yellow w/ sediment	Silica 8mm gel	42324304	
08	- 01M		1060	10		light yellow w/ sediment			
09	- 01S		1060	10		light yellow soln	Sonicator #	N/A	Reading
10	- 02		1060	10		light pink w/ sediment			
11	- 03		1060	10		light green w/ sediment			
12	06C 225 - 01		1030	10	Silica gel				
13	- 01M		1030	10	gel	light yellow soln			
14	- 01S		990	10	↓				
15	- 02		1060	10	↓				
16	06C 239 - 01		1060	10				35	35
17	06C 584 - 01		1050	10				35	35
18	- 02		1060	10				35	35
19	06C 219 - 05		960	10		light yellow soln			
20	- 10		980	10					
21	- 15		990	10					
22	- 20		990	10		yellow soln			
23	- 25		960	10		light yellow soln			
24	06C 226 - 01		1060	10					
25	- 02		980	10					
26									
27									

Comments: Test thermometer = T₁

Prepared By: AB/JM Standard Added By: JM
 Witnessed By: AB Checked By: ML
 Extract Received by: AS 3/28/06 Extract Location: SE06-15A
 Disposal Date: Disposed By:

PREPARATION BATCH: DSC 024 W
 3/27/06 AB

* Further silica gel cleanup on DSC 024 WB, WL, WC



LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD M8015
ALCOHOLS BY GC

SDG#: 06C222

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C222

METHOD M8015 ALCOHOLS BY GC

Four (4) water samples were received on 03/24/06 for Alcohols by GC analysis by Method M8015 in accordance with USEPA SW846, 3rd Ed.

1. Holding Time

Analytical holding time was met. Samples were not preserved except sample C222-04, which was adjusted to pH 7 with NaOH prior to analysis.

2. Calibration

Initial calibration was five points. %RSD was within 20%. Continuing calibrations were carried out within 10-sample interval. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

5. Matrix Spike/Matrix Spike Duplicate

Sample C222-01 was spiked. Recoveries were within QC limits.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
ALCOHOLS BY GC

Client : ENSR
Project : UPGRADE INVESTIGATION, TRONOX

SDG NO. : 06C222
Instrument ID : GCT043

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	MEC013WB	1	NA	03/27/0613:25	03/27/0613:25	DC27003A	DC27002A	MEC013W	Method Blank
LCS1W	MEC013WL	1	NA	03/27/0613:45	03/27/0613:45	DC27004A	DC27002A	MEC013W	Lab Control Sample (LCS)
LCD1W	MEC013WC	1	NA	03/27/0614:03	03/27/0614:03	DC27005A	DC27002A	MEC013W	LCS Duplicate
M-121	C222-01	1	NA	03/27/0614:20	03/27/0614:20	DC27006A	DC27002A	MEC013W	Field Sample
M-117	C222-02	1	NA	03/27/0615:17	03/27/0615:17	DC27009A	DC27002A	MEC013W	Field Sample
H-11	C222-03	1	NA	03/27/0615:34	03/27/0615:34	DC27010A	DC27002A	MEC013W	Field Sample
TRIP BLANK	C222-04	1	NA	03/27/0615:52	03/27/0615:52	DC27011A	DC27002A	MEC013W	Field Sample
M-121MS	C222-01M	1	NA	03/27/0614:38	03/27/0614:38	DC27007A	DC27002A	MEC013W	Matrix Spike Sample (MS)
M-121MSD	C222-01S	1	NA	03/27/0614:59	03/27/0614:59	DC27008A	DC27002A	MEC013W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD M8015
ALCOHOLS BY GC

```
=====
Client      : ENSR                      Date Collected: 03/23/06
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No.   : 06C222                   Date Extracted: 03/27/06 14:20
Sample ID   : M-121                     Date Analyzed: 03/27/06 14:20
Lab Samp ID: C222-01                    Dilution Factor: 1
Lab File ID: DC27006A                   Matrix          : WATER
Ext Btch ID: MEC013W                    % Moisture      : NA
Calib. Ref.: DC27002A                   Instrument ID   : GCT043
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

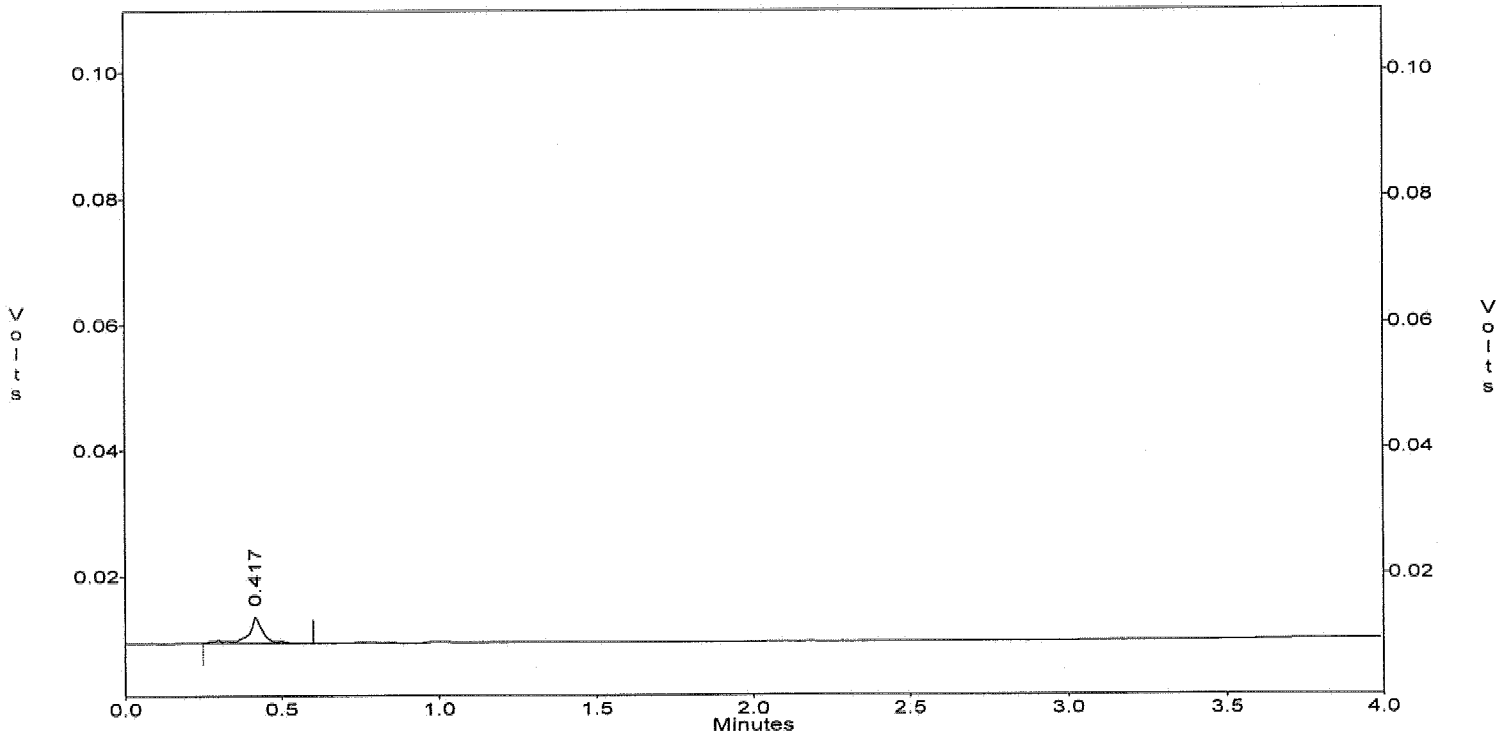
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC27\Dc27.006
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C222-01
Acquired : Mar 27, 2006 14:20:58
Printed : Mar 27, 2006 14:24:59
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	0.992	0	0.0	0.0
--	ETHANOL	1.192	0	0.0	0.0

c:\ezchrom\chrom\DC27\Dc27.006 -- Channel A



METHOD M8015
ALCOHOLS BY GC

```
=====
Client      : ENSR                      Date Collected: 03/23/06
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No.   : 06C222                   Date Extracted: 03/27/06 15:17
Sample ID   : M-117                     Date Analyzed: 03/27/06 15:17
Lab Samp ID: C222-02                     Dilution Factor: 1
Lab File ID: DC27009A                    Matrix          : WATER
Ext Btch ID: MEC013W                     % Moisture      : NA
Calib. Ref.: DC27002A                    Instrument ID   : GCT043
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

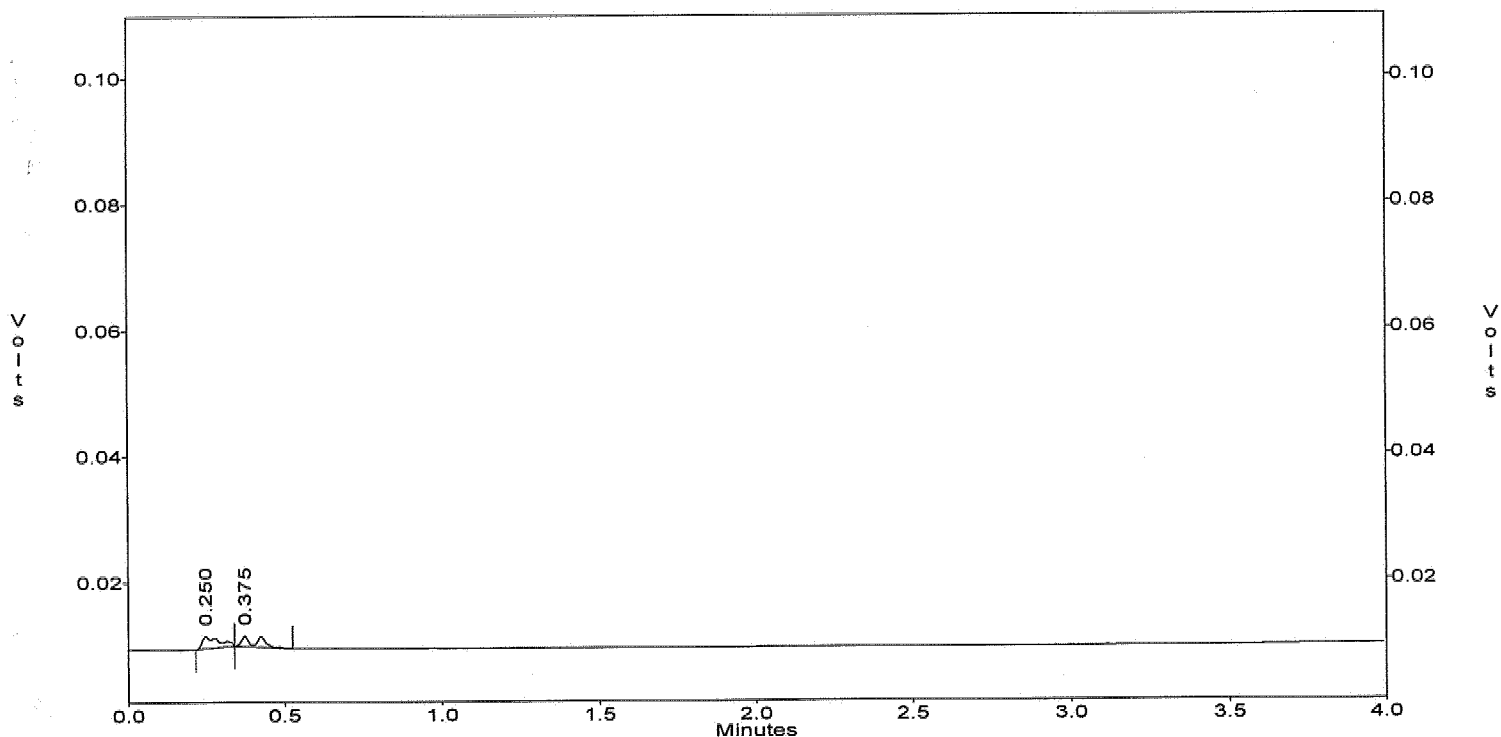
File : c:\ezchrom\chrom\DC27\Dc27.009
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C222-02
Acquired : Mar 27, 2006 15:17:06
Printed : Mar 27, 2006 15:21:07
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	0.992	0	0.0	0.0
--	ETHANOL	1.192	0	0.0	0.0

P
M
L
P

c:\ezchrom\chrom\DC27\Dc27.009 -- Channel A



METHOD M8015
ALCOHOLS BY GC

```
=====  
Client      : ENSR                      Date Collected: 03/23/06  
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06  
Batch No.   : 06C222                   Date Extracted: 03/27/06 15:34  
Sample ID   : H-11                      Date Analyzed: 03/27/06 15:34  
Lab Samp ID: C222-03                   Dilution Factor: 1  
Lab File ID: DC27010A                  Matrix          : WATER  
Ext Btch ID: MEC013W                   % Moisture      : NA  
Calib. Ref.: DC27002A                   Instrument ID   : GCT043  
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

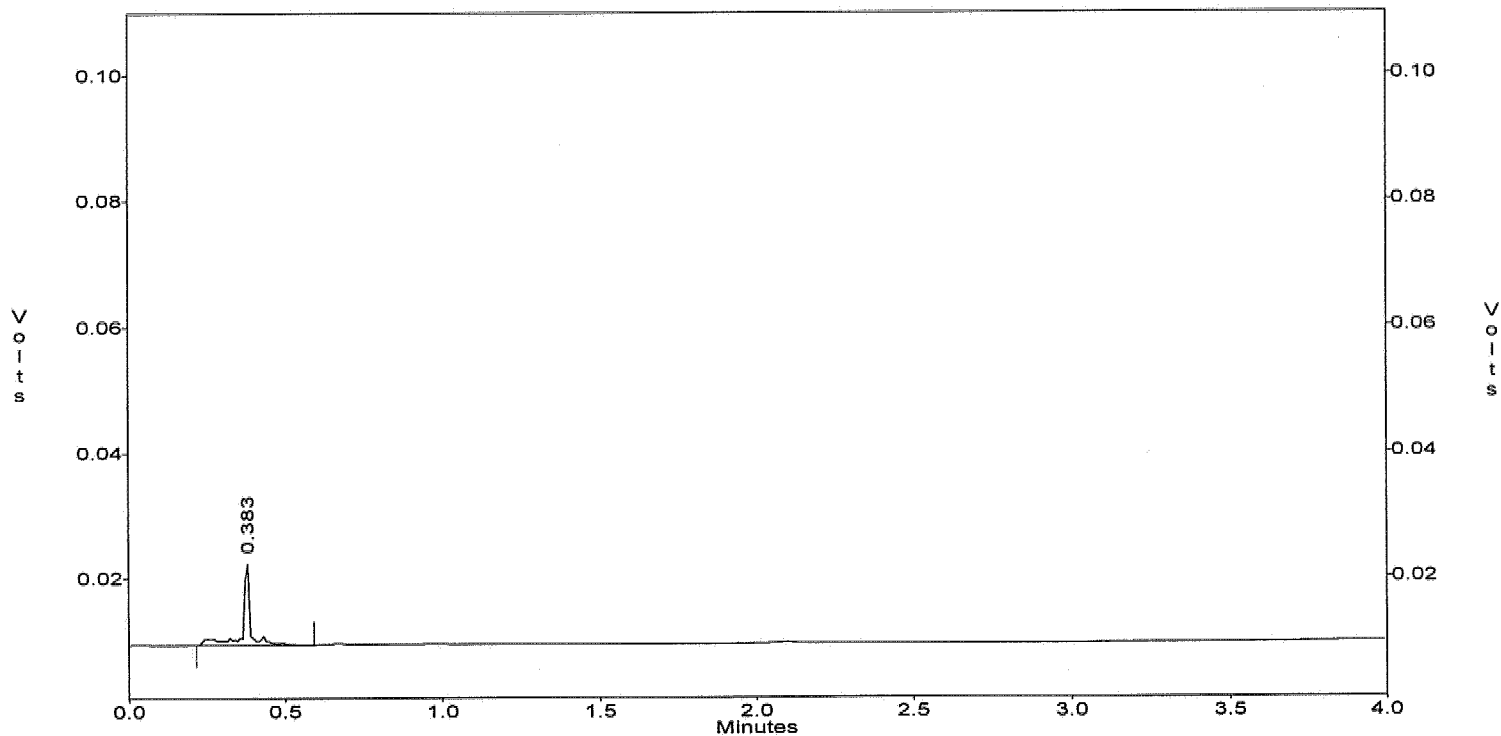
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC27\Dc27.010
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C222-03
Acquired : Mar 27, 2006 15:34:33
Printed : Mar 27, 2006 15:38:34
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	0.992	0	0.0	0.0
--	ETHANOL	1.192	0	0.0	0.0

c:\ezchrom\chrom\DC27\Dc27.010 -- Channel A



METHOD M8015
ALCOHOLS BY GC

=====
Client : ENSR Date Collected: 03/23/06
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No. : 06C222 Date Extracted: 03/27/06 15:52
Sample ID: TRIP BLANK Date Analyzed: 03/27/06 15:52
Lab Samp ID: C222-04 Dilution Factor: 1
Lab File ID: DC27011A Matrix : WATER
Ext Btch ID: MEC013W % Moisture : NA
Calib. Ref.: DC27002A Instrument ID : GCT043
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

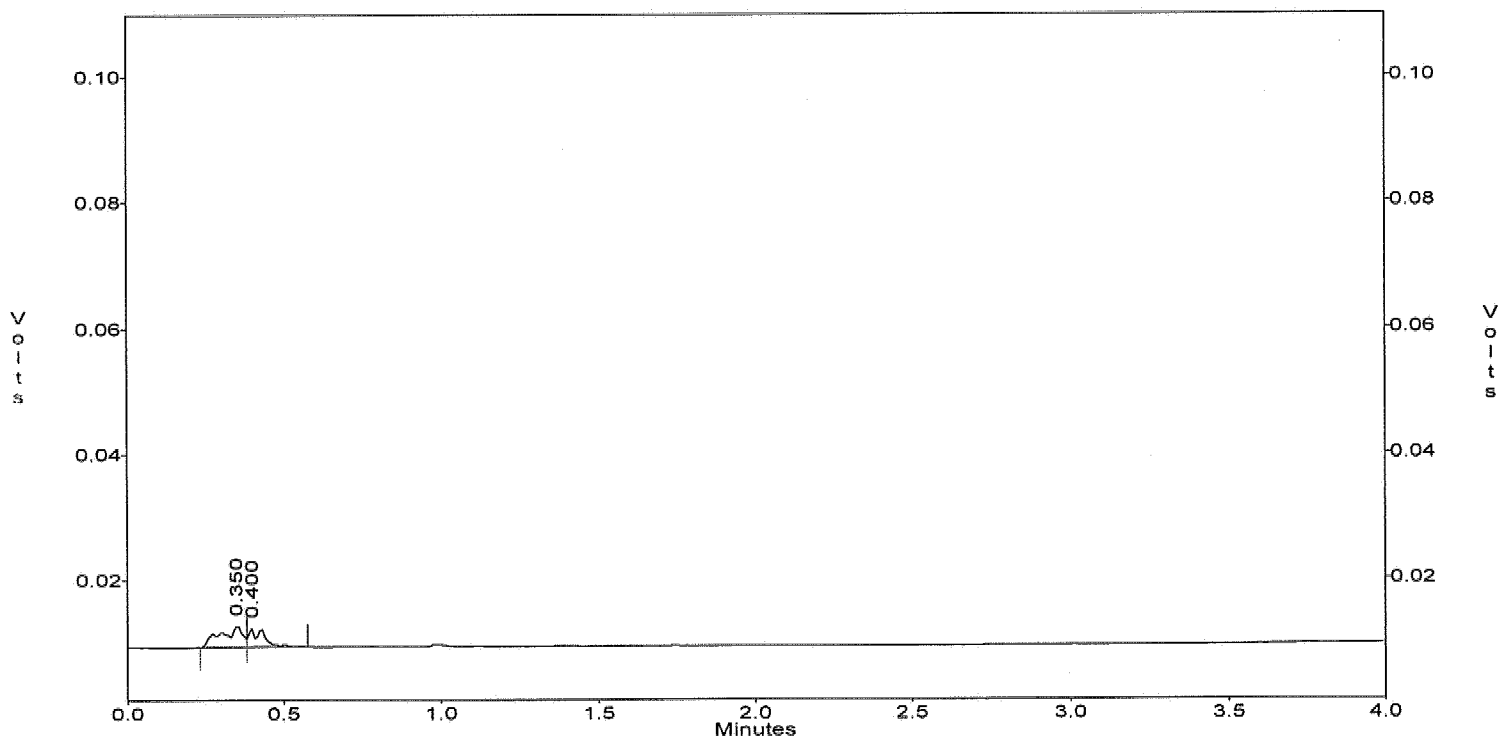
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC27\Dc27.011
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C222-04
Acquired : Mar 27, 2006 15:52:44
Printed : Mar 27, 2006 15:56:46
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	0.992	0	0.0	0.0
--	ETHANOL	1.192	0	0.0	0.0

c:\ezchrom\chrom\DC27\Dc27.011 -- Channel A



QC SUMMARIES

METHOD M8015
ALCOHOLS BY GC

=====
Client : ENSR Date Collected: NA
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/27/06
Batch No. : 06C222 Date Extracted: 03/27/06 13:25
Sample ID: MBLK1W Date Analyzed: 03/27/06 13:25
Lab Samp ID: MEC013WB Dilution Factor: 1
Lab File ID: DC27003A Matrix : WATER
Ext Btch ID: MEC013W % Moisture : NA
Calib. Ref.: DC27002A Instrument ID : GCT043
=====

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: METHOD M8015

=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: MEC013WB MEC013WL MEC013WC
LAB FILE ID: DC27003A DC27004A DC27005A
DATE EXTRACTED: 03/27/0613:25 03/27/0613:45 03/27/0614:03 DATE COLLECTED: NA
DATE ANALYZED: 03/27/0613:25 03/27/0613:45 03/27/0614:03 DATE RECEIVED: 03/27/06
PREP. BATCH: MEC013W MEC013W MEC013W
CALIB. REF: DC27002A DC27002A DC27002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Methanol	ND	10	11.7	117	10	11.8	118	0	60-130	30
Ethanol	ND	10	10.3	103	10	10.3	103	0	60-130	30

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: METHOD M8015

=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: M-121
LAB SAMP ID: C222-01 C222-01M C222-01S
LAB FILE ID: DC27006A DC27007A DC27008A
DATE EXTRACTED: 03/27/0614:20 03/27/0614:38 03/27/0614:59 DATE COLLECTED: 03/23/06
DATE ANALYZED: 03/27/0614:20 03/27/0614:38 03/27/0614:59 DATE RECEIVED: 03/24/06
PREP. BATCH: MEC013W MEC013W MEC013W
CALIB. REF: DC27002A DC27002A DC27002A

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Methanol	ND	10	11.9	119	10	11.2	112	6	60-130	30
Ethanol	ND	10	10.1	101	10	9.88	99	2	60-130	30

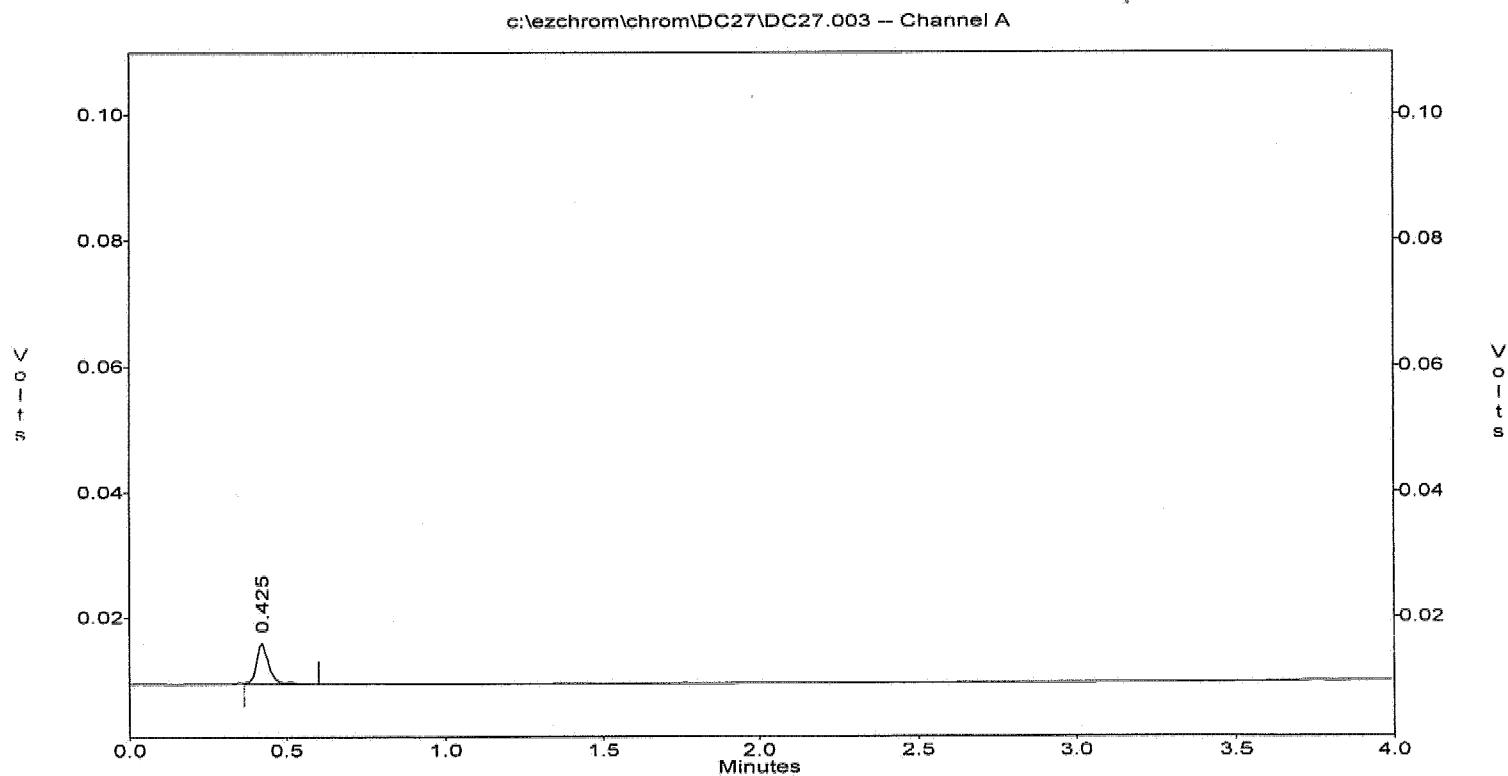
QC DATA

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC27\DC27.003
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MEC013WB
Acquired : Mar 27, 2006 13:25:48
Printed : Mar 30, 2006 15:29:53
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	0.992	0	0.0	0.0
--	ETHANOL	1.192	0	0.0	0.0



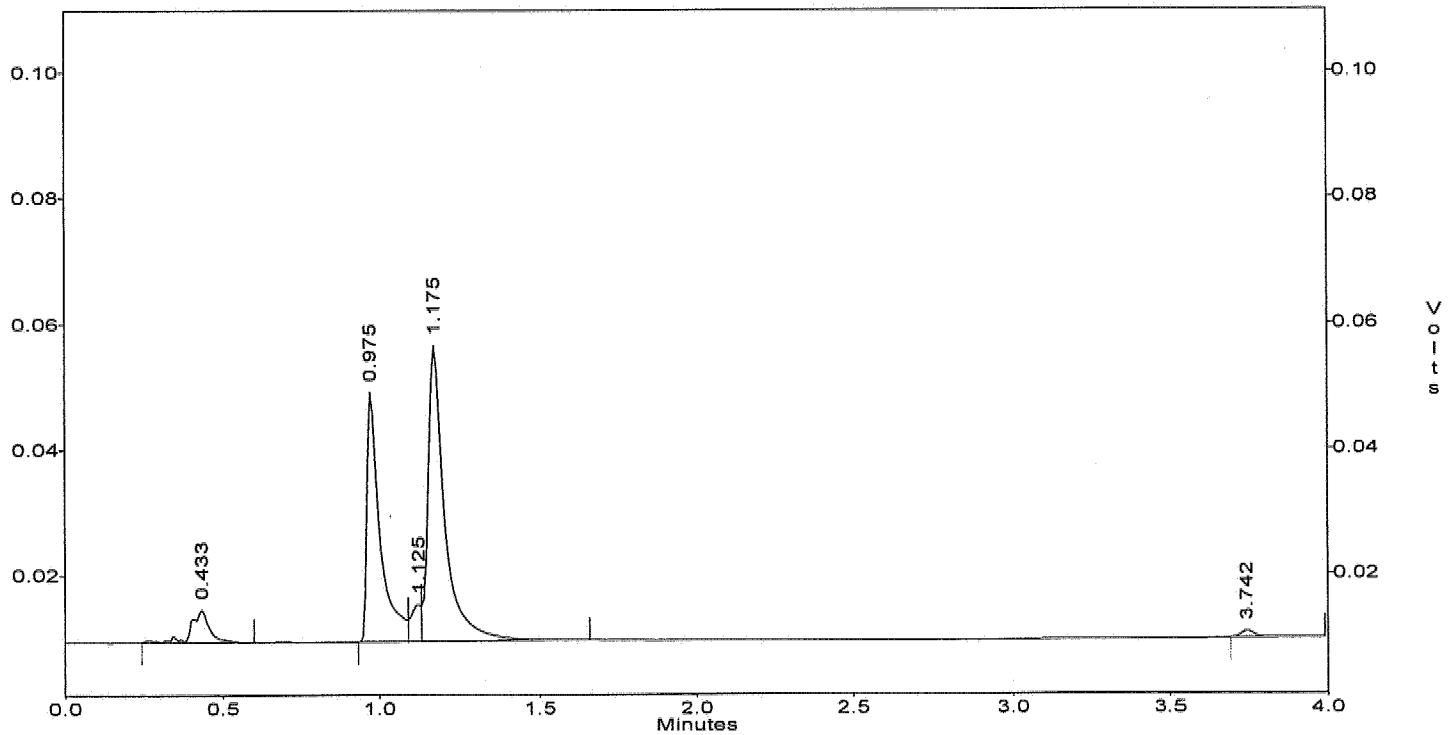
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC27\DC27.004
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MEC013WL
Acquired : Mar 27, 2006 13:45:29
Printed : Mar 30, 2006 15:29:54
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	0.975	114383	9735.5	11.7
4	ETHANOL	1.175	168013	16319.3	10.3

c:\ezchrom\chrom\DC27\DC27.004 -- Channel A

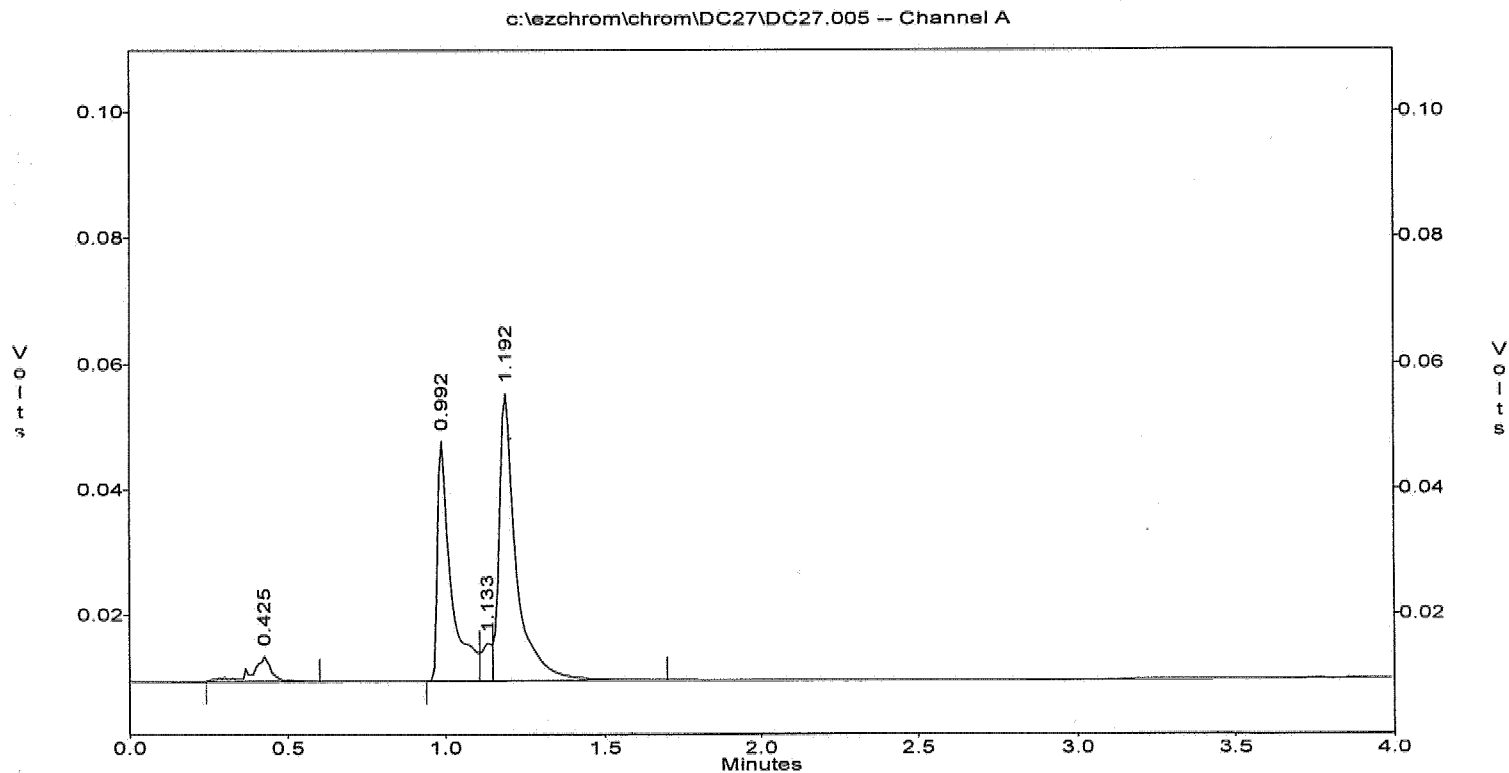


EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC27\DC27.005
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MEC013WC
Acquired : Mar 27, 2006 14:03:06
Printed : Mar 30, 2006 15:29:55
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	0.992	114654	9735.5	11.8
4	ETHANOL	1.192	168449	16319.3	10.3



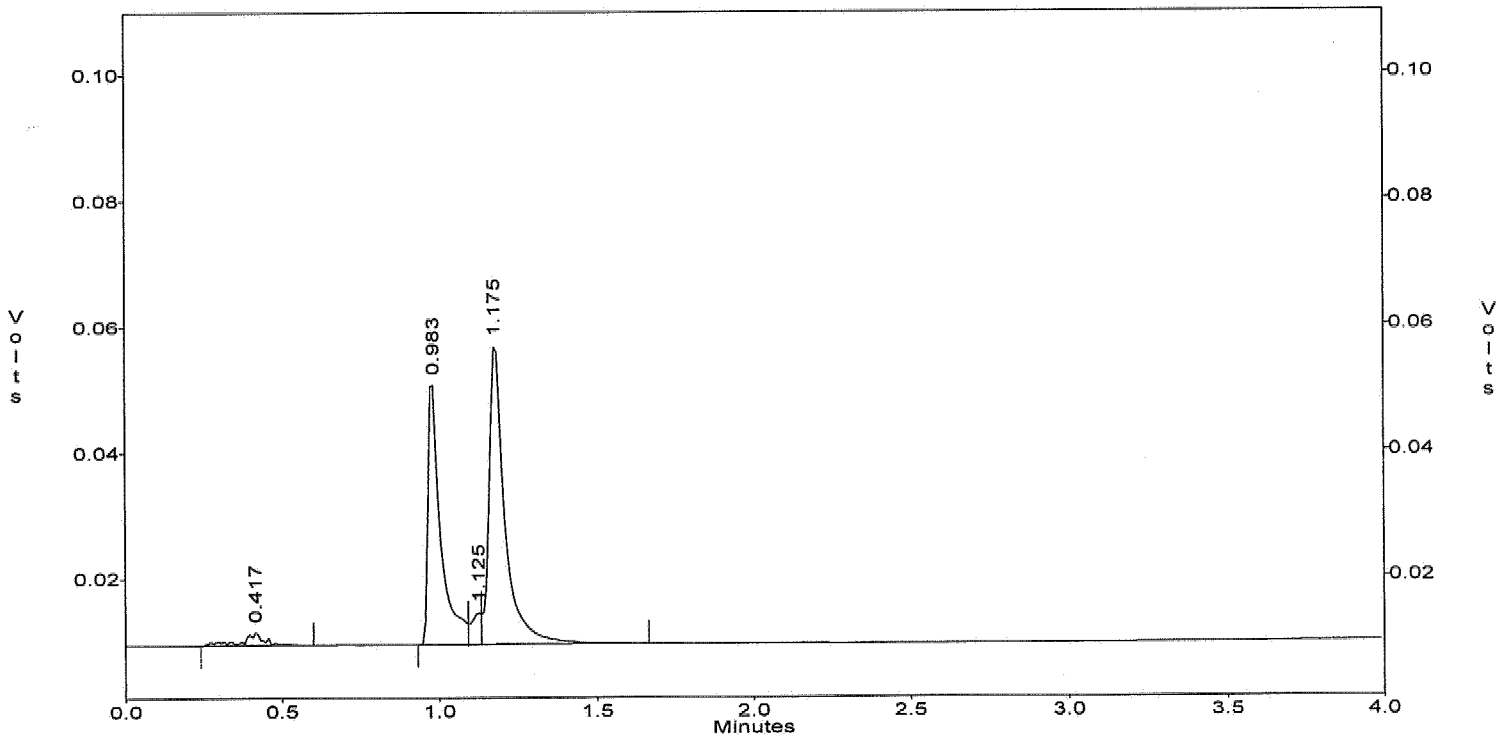
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc27\dc27.007
Method : c:\ezchrom\methods\me43c06.met
Sample ID : 06C222-01M
Acquired : Mar 27, 2006 14:38:47
Printed : Mar 27, 2006 15:00:44
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	0.983	115571	9735.5	11.9
4	ETHANOL	1.175	164741	16319.3	10.1

c:\ezchrom\chrom\dc27\dc27.007 -- Channel A



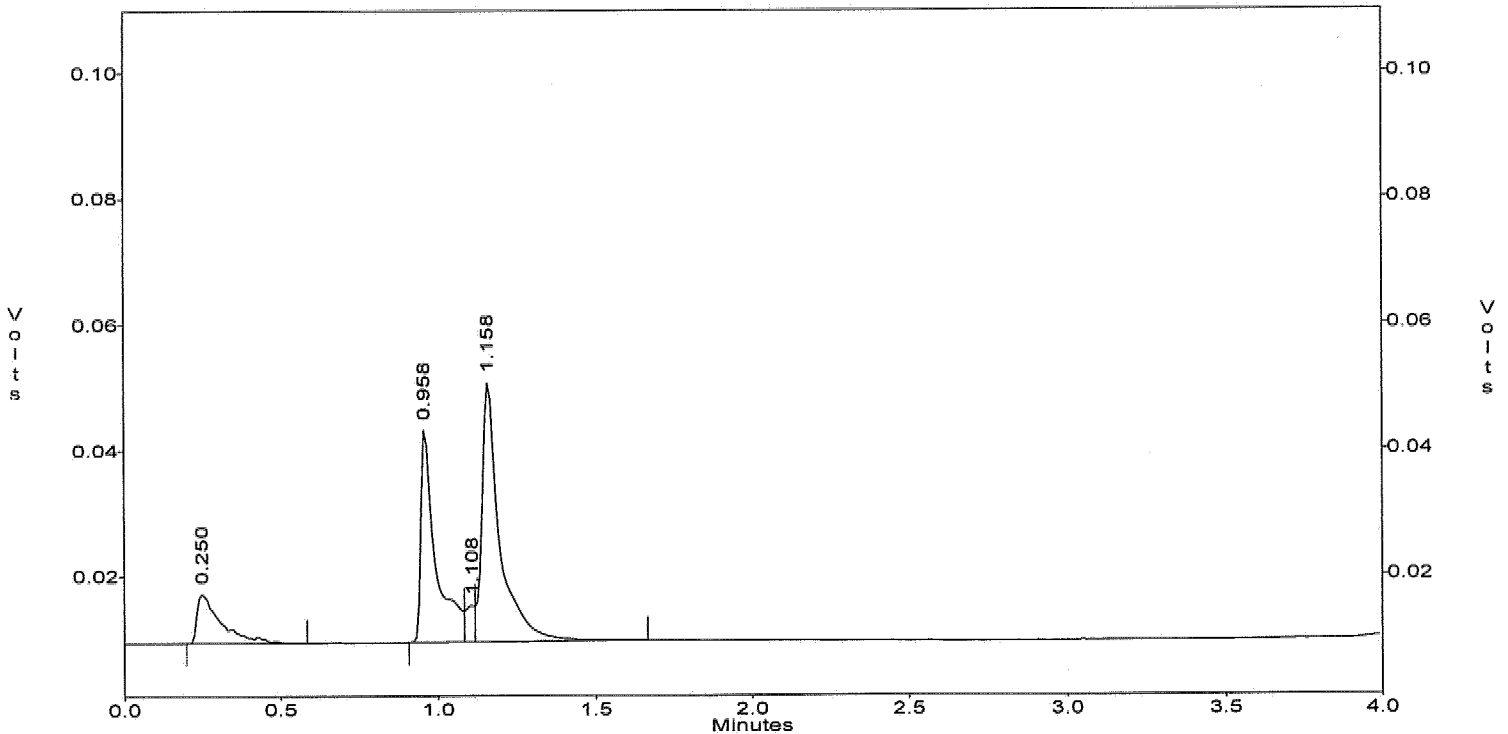
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc27\dc27.008
Method : c:\ezchrom\methods\me43c06.met
Sample ID : 06C222-01S
Acquired : Mar 27, 2006 14:59:35
Printed : Mar 27, 2006 15:10:02
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	0.958	109376	9735.5	11.2
4	ETHANOL	1.158	161205	16319.3	9.9

c:\ezchrom\chrom\dc27\dc27.008 -- Channel A



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 LFID & Datetime: DC06002A 03/06/06 13:33 ✓
 LFID & Datetime: DC06003A 03/06/06 13:53 ✓
 LFID & Datetime: DC06004A 03/06/06 14:11 ✓
 LFID & Datetime: DC06005A 03/06/06 14:29 ✓
 LFID & Datetime: DC06006A 03/06/06 14:47 ✓
 CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT					MEAN	%RSD
		1.00X	5.00X	10.00X	15.00X	20.00X		
METHANOL	1.00	9358.00	9968.80	9945.50	9619.93	9785.45	9735.54	2.6
ETHANOL	1.00	14498	16802	17403	17481	15412	16319	8.0

ME43C06.MET

RA
03/08/06

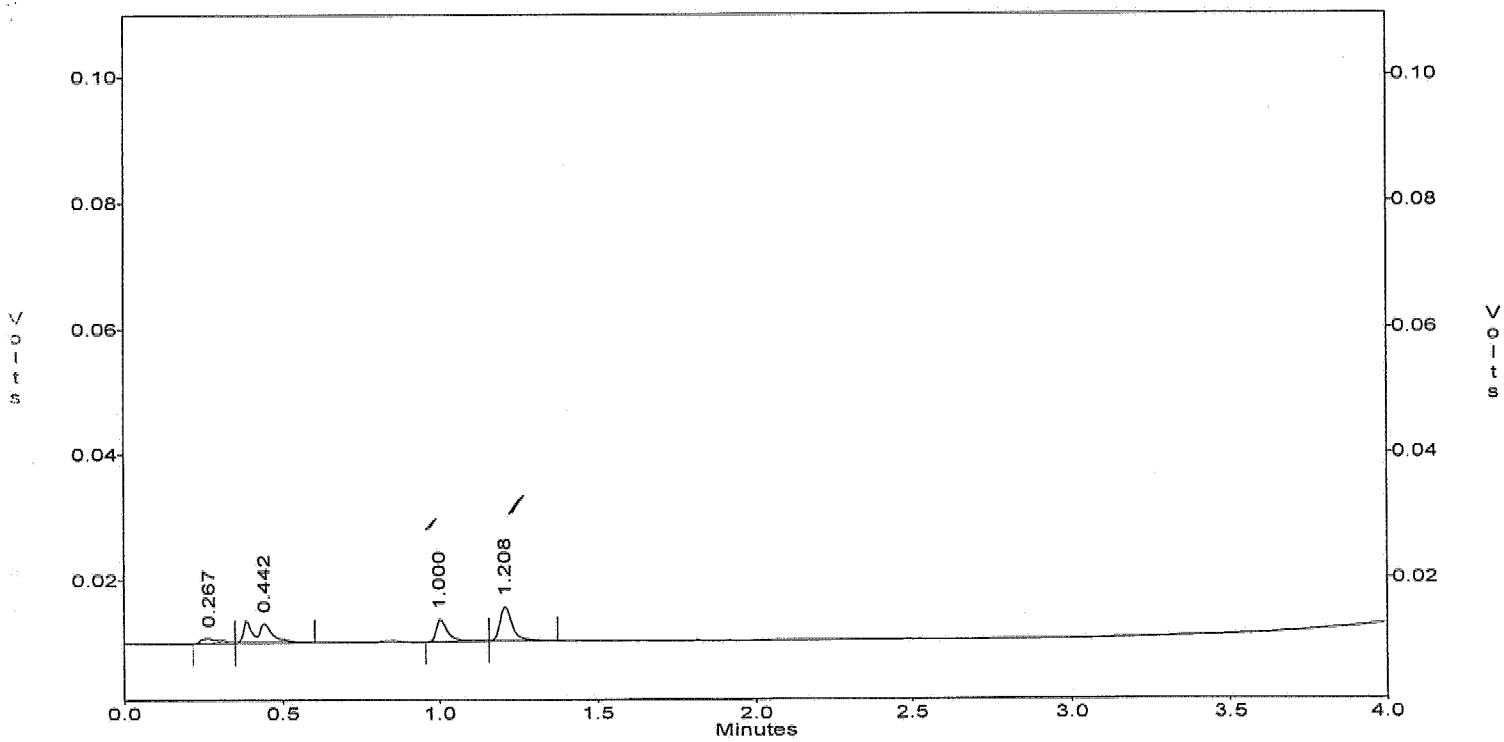
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.002
Method : c:\ezchrom\methods\me43c06.met ✓
Sample ID : ME43C0601 1PPM
Acquired : Mar 06, 2006 13:33:28 ✓
Printed : Mar 06, 2006 15:11:10
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	1.000	9358	9735.5 ✓	1.0
4	ETHANOL	1.208	14498 ✓	16319.3 ✓	1.0

c:\ezchrom\chrom\dc06\dc06.002 -- Channel A



AS
03/08/06
5083

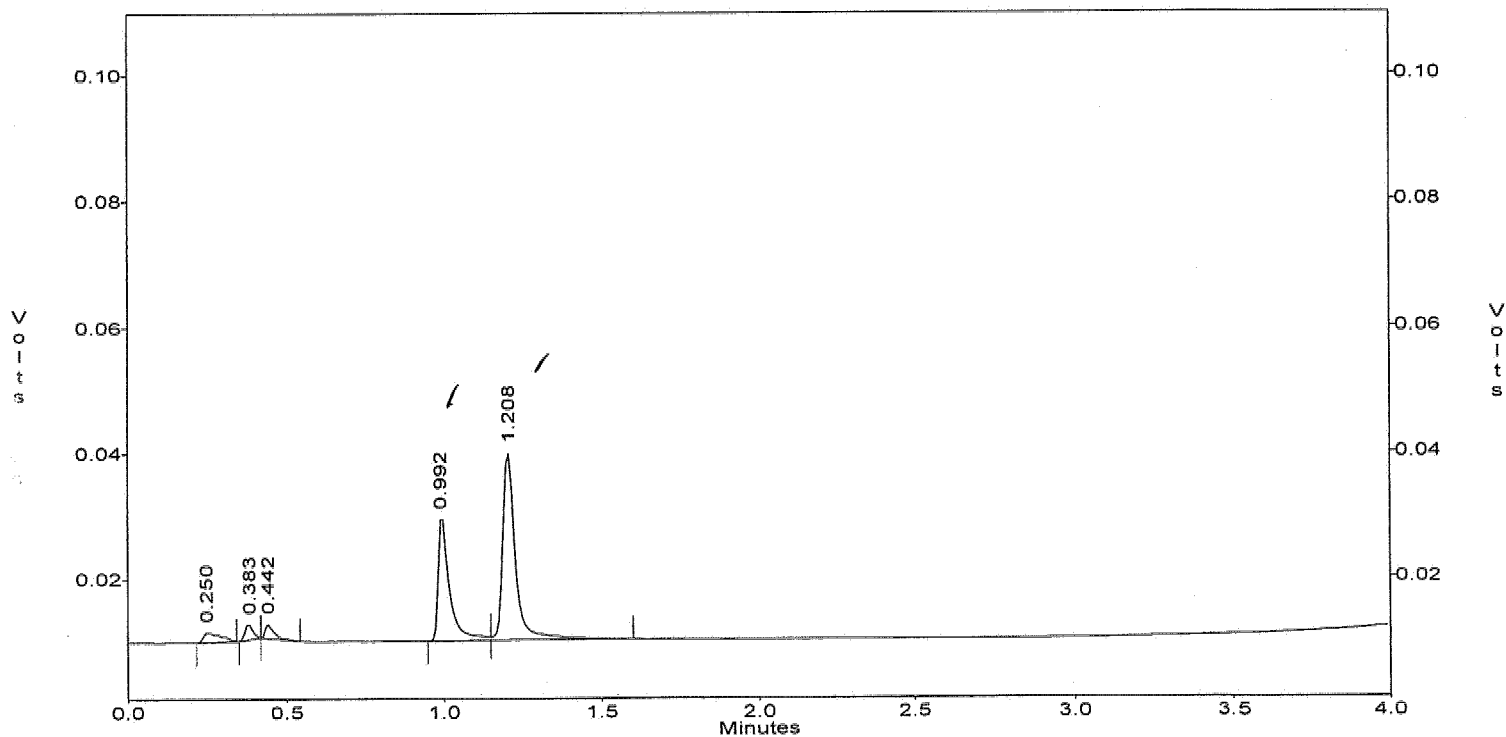
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.003
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0602 5PPM
Acquired : Mar 06, 2006 13:53:42
Printed : Mar 06, 2006 15:11:14
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.992	49844	9735.5	5.0
5	ETHANOL	1.208	84012	16319.3	5.0

c:\ezchrom\chrom\dc06\dc06.003 -- Channel A



At
03/08/06
5084

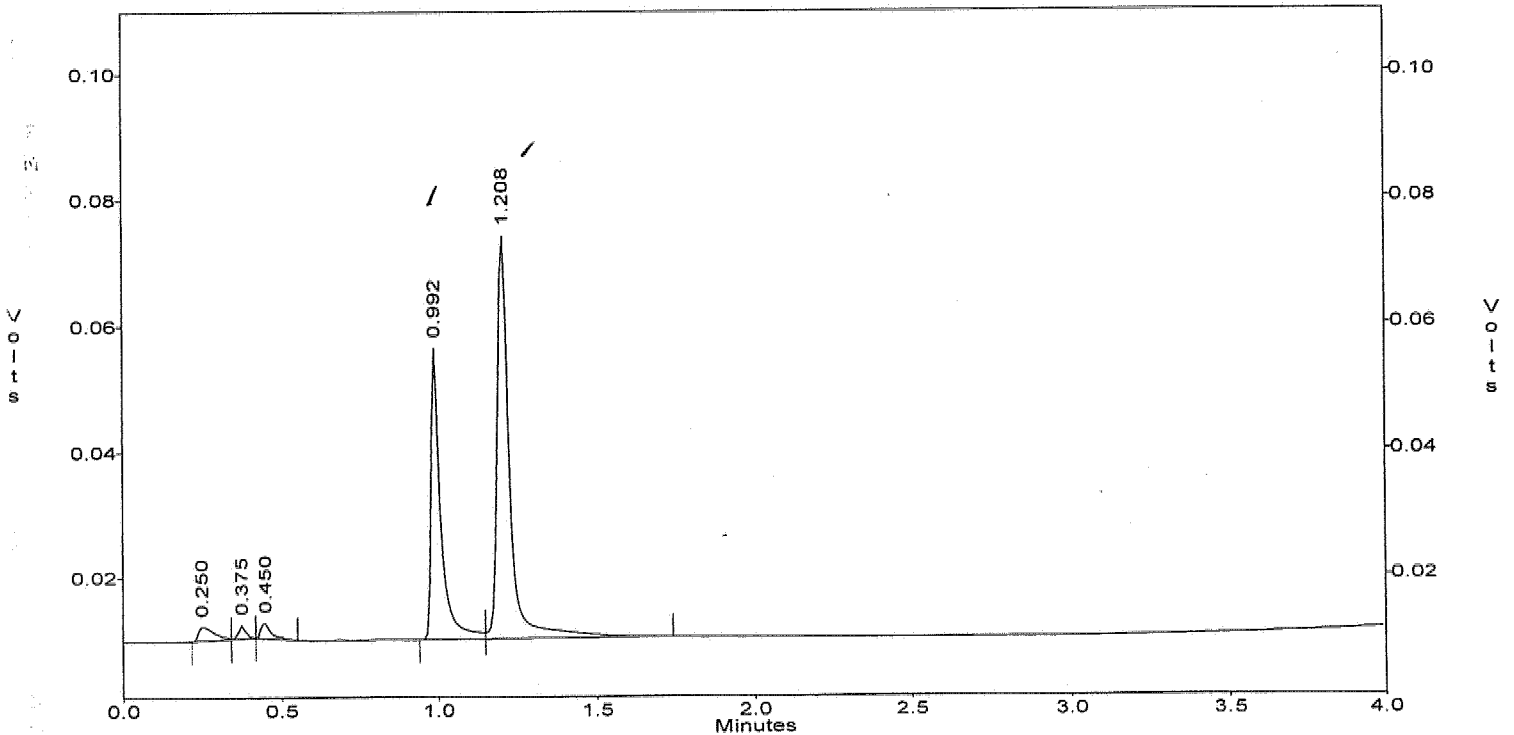
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.004
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0603 10PPM
Acquired : Mar 06, 2006 14:11:39
Printed : Mar 06, 2006 15:11:18
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.992	99455	9735.5	10.0
5	ETHANOL	1.208	174031	16319.3	10.0

c:\ezchrom\chrom\dc06\dc06.004 -- Channel A



RA
03/08/06

5085

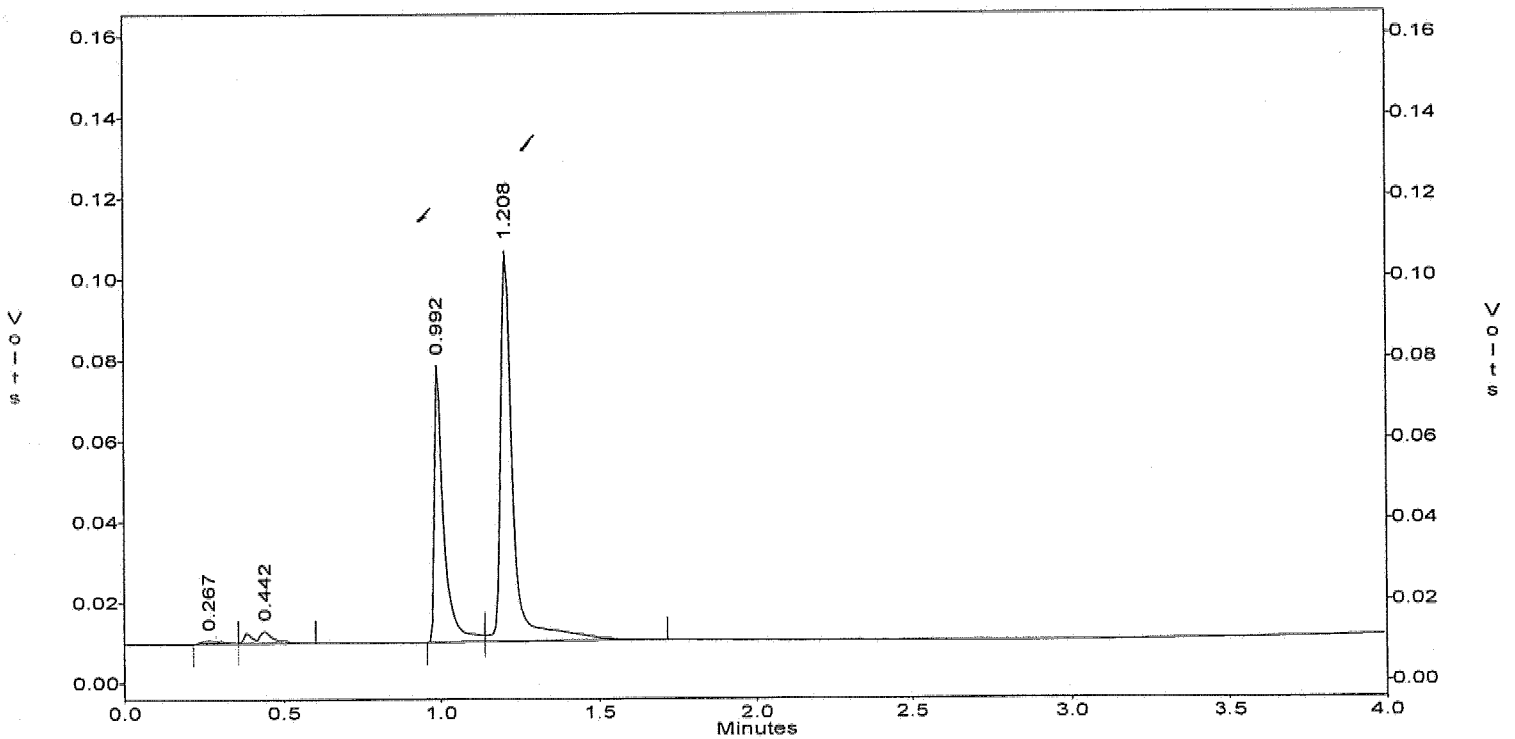
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.005
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0604 15PPM
Acquired : Mar 06, 2006 14:29:43
Printed : Mar 06, 2006 15:11:28
User : XUYEN

Channel A Results

#	Peak Name	Ret.Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	0.992	144299	9735.5	15.0
4	ETHANOL	1.208	262213	16319.3	15.0

c:\ezchrom\chrom\dc06\dc06.005 -- Channel A



RT
03/08/06
5086

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

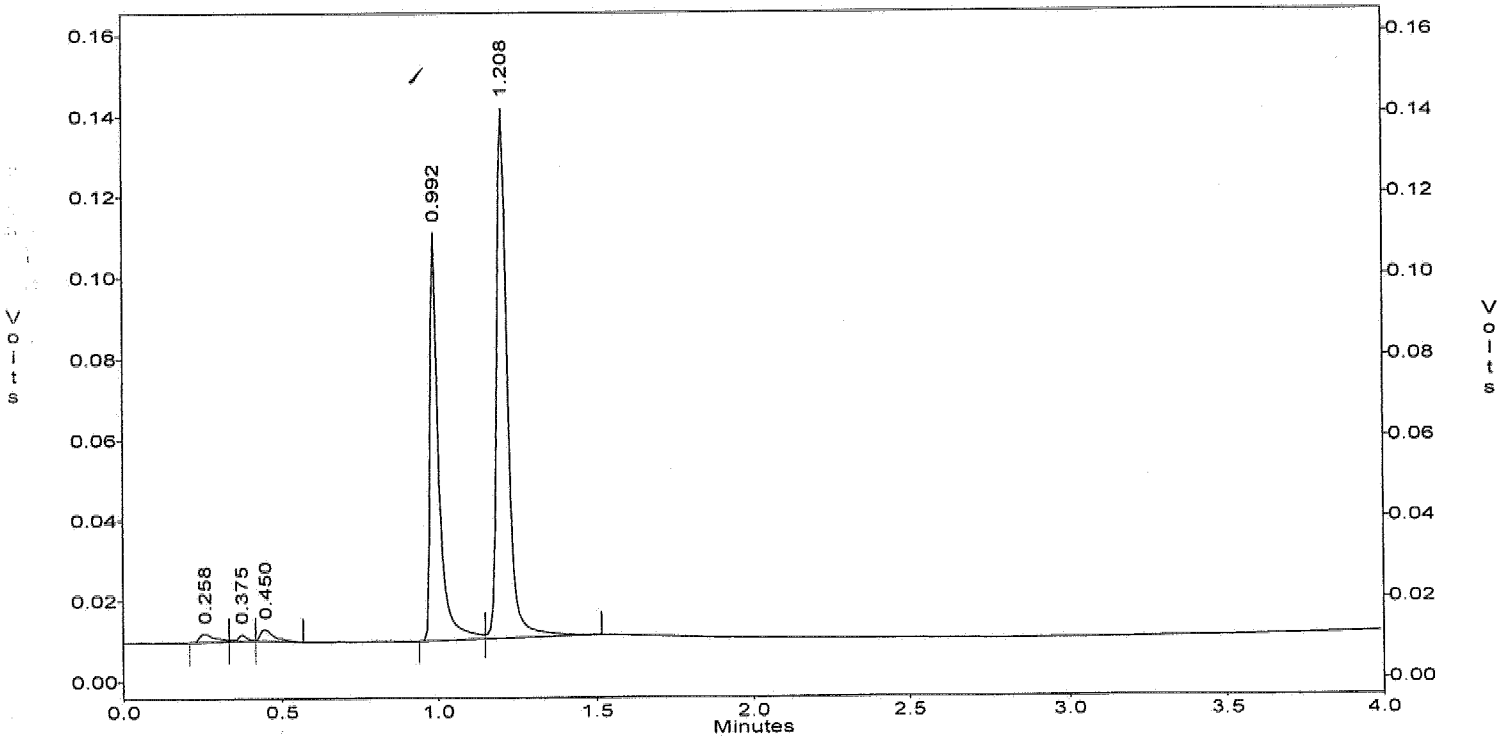
File : c:\ezchrom\chrom\dc06\dc06.006
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0605 20PPM
Acquired : Mar 06, 2006 14:47:41
Printed : Mar 06, 2006 15:11:33
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.992	195709	9735.5	20.0
5	ETHANOL	1.208	308245	16319.3	20.0

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c:\ezchrom\chrom\dc06\dc06.006 -- Channel A



At
03/08/06
5087

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
 Conc Cont LFID & Datetime: DC06007A 03/06/2006 15:04
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
METHANOL	1.008	0.982	1.034	10.0	9735.5	103117	10.59	6		15
ETHANOL	1.225	1.196	1.254	10.0	16319.3	164274	10.07	1		15

ME43C06.MET

LS
03/08/06

5089

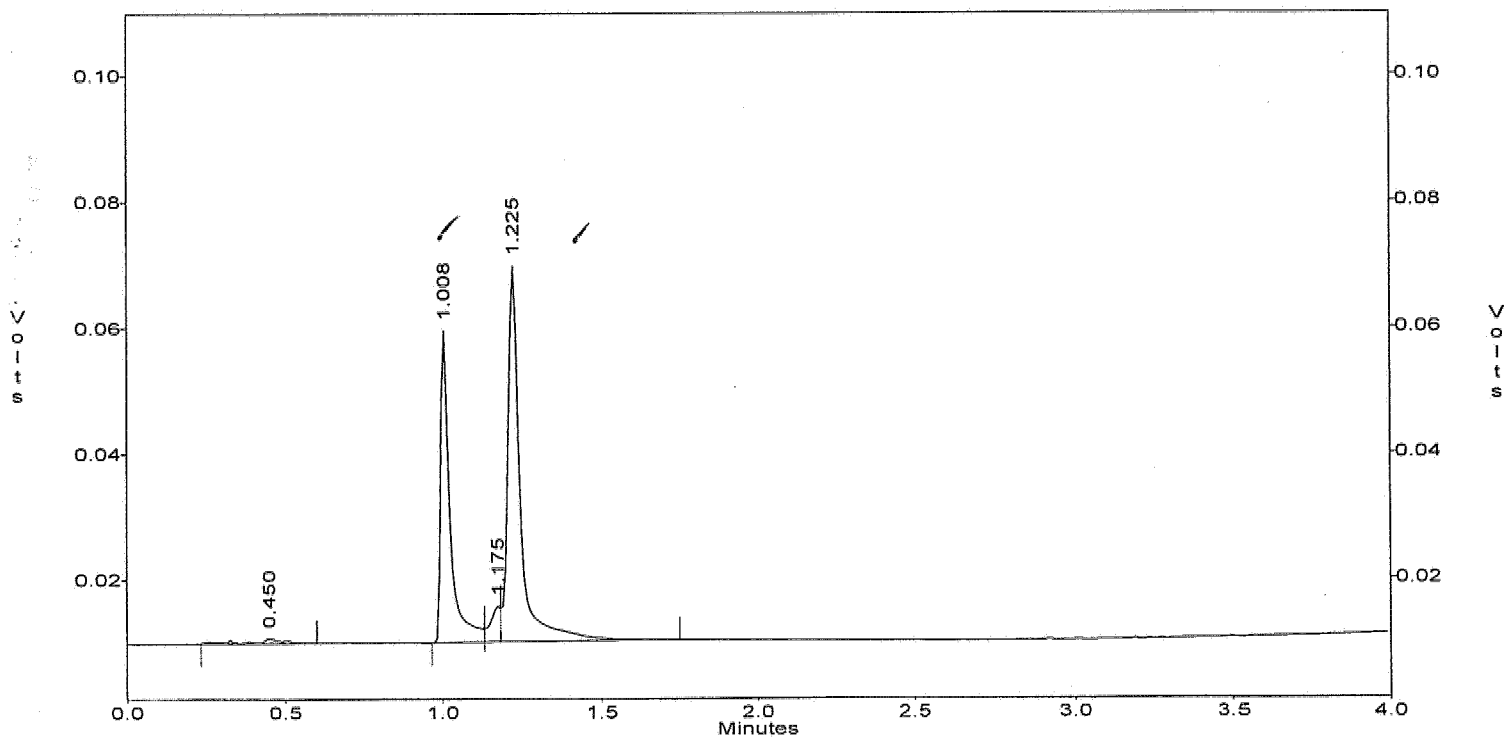
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc06\dc06.007
Method : c:\ezchrom\methods\me43c06.met
Sample ID : IME43C0601 10PPM
Acquired : Mar 06, 2006 15:04:40
Printed : Mar 06, 2006 15:11:45
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	1.008	103117	9735.5	10.6
4	ETHANOL	1.225	164274	16319.3	10.1

c:\ezchrom\chrom\dc06\dc06.007 -- Channel A



At
03/08/06

5090

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
 Conc Cont LFID & Datetime: DC27002A 03/27/2006 13:05
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
METHANOL	0.983	0.957	1.009	10.0	9735.5	106669	10.96	10		15
ETHANOL	1.183	1.154	1.212	10.0	16319.3	184262	11.29	13		15

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

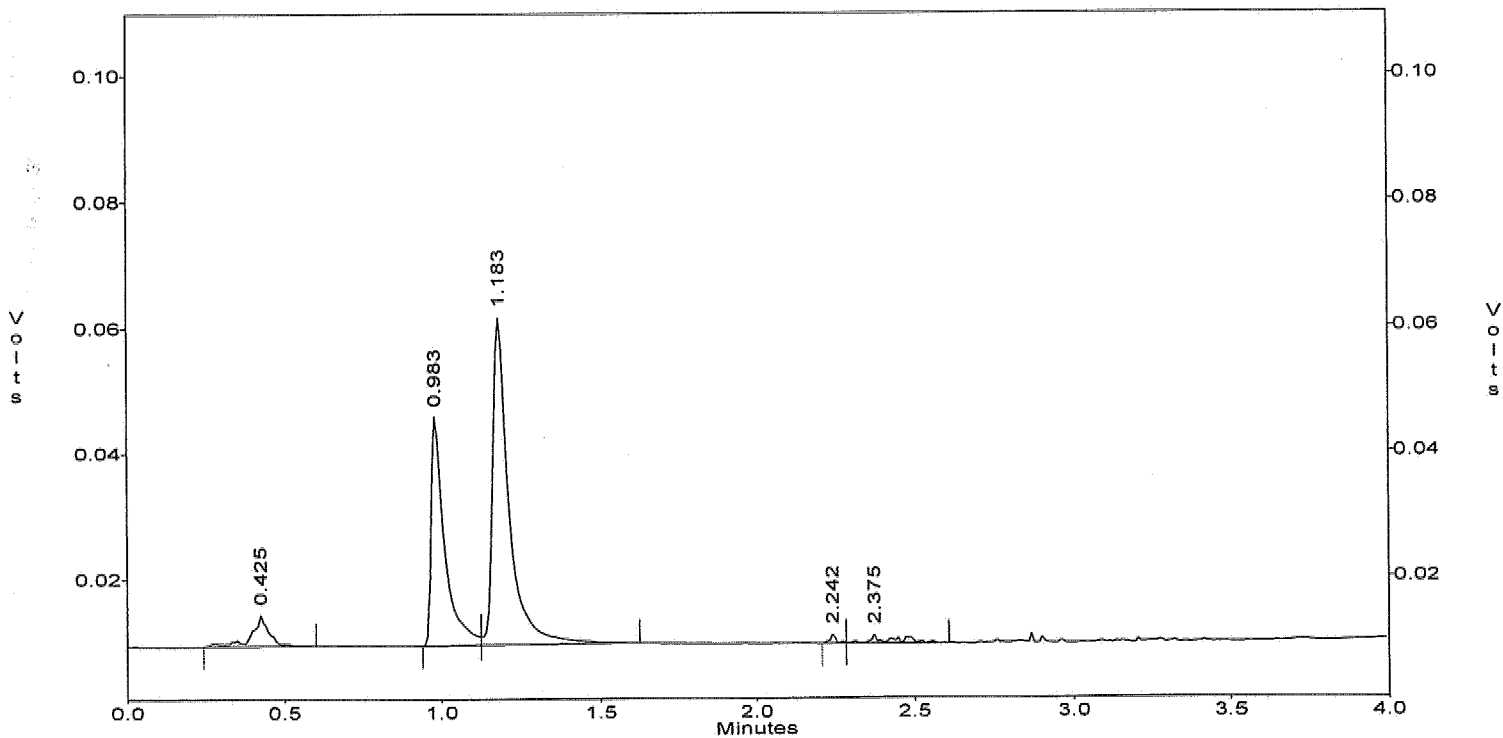
File : c:\ezchrom\chrom\DC27\Dc27.002
 Method : c:\ezchrom\methods\Me43c06.met
 Sample ID : CME43C06057
 Acquired : Mar 27, 2006 13:05:20
 Printed : Mar 27, 2006 13:09:22
 User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	0.983	106669	9735.5	11.0
3	ETHANOL	1.183	184262	16319.3	11.3

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c:\ezchrom\chrom\DC27\Dc27.002 -- Channel A



CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC06004A 03/06/2006 14:11
 Conc Cont LFID & Datetime: DC27016A 03/27/2006 17:33
 CONC UNIT : ppm

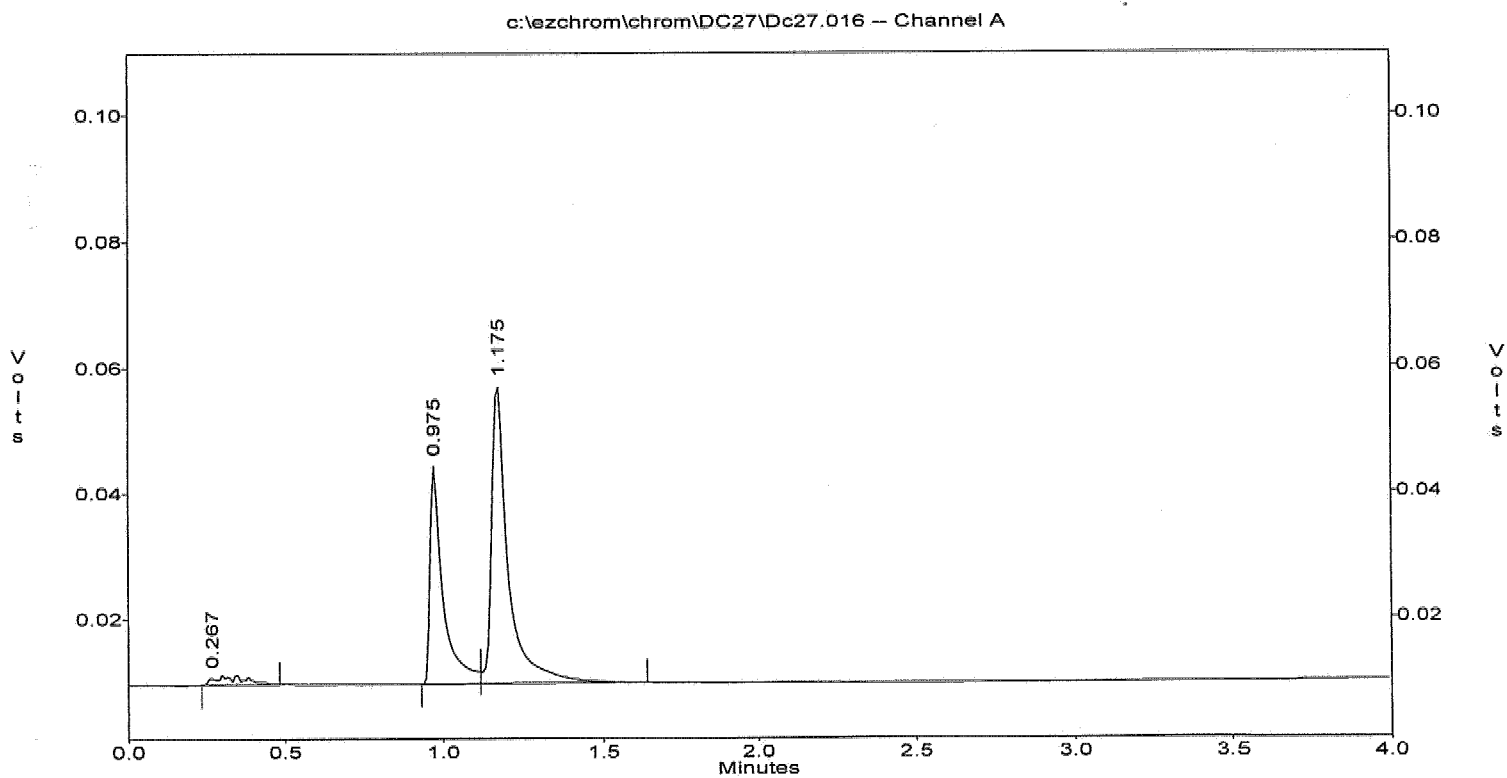
COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
METHANOL	0.975	0.949	1.001	10.0	9735.5	96317	9.89	-1		15
ETHANOL	1.175	1.146	1.204	10.0	16319.3	169634	10.40	4		15

EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC27\Dc27.016
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : CME43C06058
Acquired : Mar 27, 2006 17:33:39
Printed : Mar 27, 2006 17:37:41
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	0.975	96317	9735.5	9.9
3	ETHANOL	1.175	169634	16319.3	10.4

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ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP EMAX-M8015D Revision No. 3 EMAX-LUFTE Revision No. 3 Alcohols

Book # A43-012

Starting Date: 3/6/06 Time: 13:13 Ending Date: 3/6/06 Time: 17:41

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes
				S	W	
	DC06.001	IB43C012				
	2	ME43C0601				10ppm XP 3/6/06
	3	2				5
	4	3				10
	5	4				15
	6	5				20
	7	IME43C0601				10 ↓
MEC002W	8	MEC002C03	1		✓	
	9	L				
	10	C				
	11	MOLVER-01				1 ppm
	12	02				0.5 ppm
	13	06C032-04				
	14	04D				
	15	ME43C06012				Bad inj.
	16	NO Injection				
	17	ME43C06012				10ppm
<div style="border: 1px solid black; padding: 5px; display: inline-block;">ANALYTICAL BATCH DC06007</div>						

INITIAL CALIBRATION REFERENCE		Instrument No:	43
		ID	Date
Diesel			
Motor oil			
JP 5			
Alcohols	ME43C06		3/6/06
Standards			
Name	ID	Conc. (mg/L)	
CH ₂ Cl ₂		—	
SEC/ICAP	SS3C-07-11-1	1-20ppm	
LES/ICV	SS3C-07-11-2	10ppm	
DEC	SS3C-07-10-2	100	
LES	SS3C-07-10-3	↓	
Electronic Data Archival			
		Location	Date
<input type="checkbox"/> E2C_2_Diesel			
<input type="checkbox"/>			

Comments: _____

Analyzed By: XP

Disposed on: 3/6/06 By: XP

This page is checked during the data review process.

ANALYSIS RUN LOG FOR TPH

Book # A43-012

SOP □ EMAX-M8015D Revision No. 3 □ EMAX-LJUFTE Revision No. 3

Starting Date: 03/27/06 Time: 12:46 Ending Date: 03/27/06 Time: 17:33

of Alcohols

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes	Instrument No:	43
				S	W			
	DC27.001	IB43C057					INITIAL CALIBRATION REFERENCE	
	.002	CMF43C06057						
EMC013W	.003	EMEC013WB	1					
	.004	L						
	.005	C						
	.006	MC222-01		7				
	.007	-014						
	.008	-015						
	.009	-02			15 AA 3/27/06			
	.010	-03						
	.011	-04			L2 Adjust PH ~ 7			
	.012	EMC239-01		6				
	.013	-02			L2 Adjust PH ~ 7			
	.014	MC238-06		L2				
	.015	CMF43C06058						
	.016	CMF43C06058		L2				
ANALYTICAL BATCH DC27002							Electronic Data Archival	
							Location	Date
							□ E2C_2_Diesel	
							□	

Comments: ~~***~~ Request 10x > 1ml ~ 10ppm ~~***~~ ejected 10ml > 1ml sample ~ 10ppm.

Analyzed By: AS Disposed on: 3/27/06 By: AS

This page is checked during the data review process.

LABORATORY REPORT FOR

ENSR

UPGRADIENT INVESTIGATION, TRONOX

METHOD M8015
ETHYLENE GLYCOL BY GC

SDG#: 06C222

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C222

METHOD M8015 ETHYLENE GLYCOL BY GC

Four (4) water samples were received on 03/24/06 for Ethylene Glycol by GC analysis by Method M8015 in accordance with USEPA SW846, 3rd Ed.

1. Holding Time

Analytical holding time was met. Samples were not preserved except sample C222-04, which was adjusted to pH 7 with NaOH prior to analysis.

2. Calibration

Initial calibration was five points. %RSD was within 20%. Continuing calibrations were carried out within 10-sample interval. All recoveries were within 85-115%.

3. Method Blank

Method blank was free of contamination at the reporting limit.

4. Lab Control Sample/Lab Control Sample Duplicate

All recoveries were within QC limits.

5. Matrix Spike/Matrix Spike Duplicate

Sample C222-01 was spiked. Recoveries were within QC limits.

6. Sample Analysis

Samples were analyzed according to the prescribed QC procedures. All criteria were met.

LAB CHRONICLE
ETHYLENE GLYCOL

Client : ENSR
Project : UPGRADE INVESTIGATION, TRONOX
SDG NO. : 06C222
Instrument ID : GCT043

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis Date/Time	Extraction Date/Time	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
									WATER
MBLK1W	EGC012MB	1	NA	03/24/0610:44	03/24/0610:44	DC24003A	DC24002A	EGC012W	Method Blank
LCS1W	EGC012ML	1	NA	03/24/0610:55	03/24/0610:55	DC24004A	DC24002A	EGC012W	Lab Control Sample (LCS)
LCD1W	EGC012MC	1	NA	03/24/0611:09	03/24/0611:09	DC24005A	DC24002A	EGC012W	LCS Duplicate
M-121	C222-01	1	NA	03/24/0616:53	03/24/0616:53	DC24027A	DC24025A	EGC012W	Field Sample
M-117	C222-02	1	NA	03/24/0615:26	03/24/0615:26	DC24021A	DC24013A	EGC012W	Field Sample
H-11	C222-03	1	NA	03/24/0615:37	03/24/0615:37	DC24022A	DC24013A	EGC012W	Field Sample
TRIP BLANK	C222-04	1	NA	03/24/0615:57	03/24/0615:57	DC24023A	DC24013A	EGC012W	Field Sample
M-121MS	C222-01M	1	NA	03/24/0617:10	03/24/0617:10	DC24028A	DC24025A	EGC012W	Matrix Spike Sample (MS)
M-121MSD	C222-01S	1	NA	03/24/0617:25	03/24/0617:25	DC24029A	DC24025A	EGC012W	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD M8015
ETHYLENE GLYCOL

=====
Client : ENSR Date Collected: 03/23/06
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No. : 06C222 Date Extracted: 03/24/06 16:53
Sample ID: M-121 Date Analyzed: 03/24/06 16:53
Lab Samp ID: C222-01 Dilution Factor: 1
Lab File ID: DC24027A Matrix : WATER
Ext Btch ID: EGC012W % Moisture : NA
Calib. Ref.: DC24025A Instrument ID : GCT043
=====

PARAMETERS	RESULTS	RL	MDL
-----	(mg/L)	(mg/L)	(mg/L)
ETHYLENE GLYCOL	ND	10	5

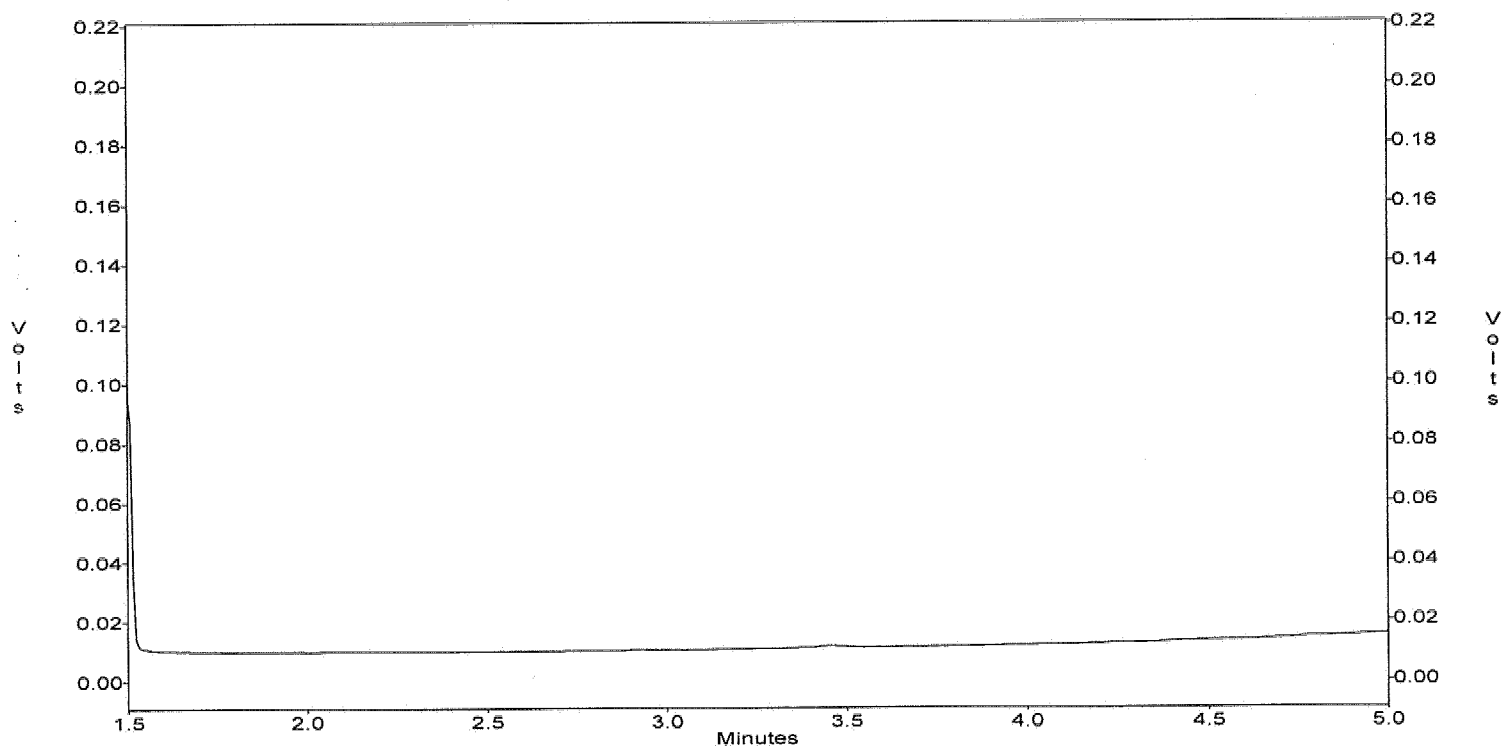
EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.027
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C222-01
Acquired : Mar 24, 2006 16:53:14
Printed : Mar 24, 2006 17:00:15
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0

c:\ezchrom\chrom\DC24\Dc24.027 -- Channel A



METHOD M8015
ETHYLENE GLYCOL

=====
Client : ENSR Date Collected: 03/23/06
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No. : 06C222 Date Extracted: 03/24/06 15:26
Sample ID: M-117 Date Analyzed: 03/24/06 15:26
Lab Samp ID: C222-02 Dilution Factor: 1
Lab File ID: DC24021A Matrix : WATER /
Ext Btch ID: EGC012W % Moisture : NA
Calib. Ref.: DC24013A Instrument ID : GCT043
=====

PARAMETERS	RESULTS	RL	MDL
-----	(mg/L)	(mg/L)	(mg/L)
-----	-----	-----	-----
ETHYLENE GLYCOL	ND	10	5

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

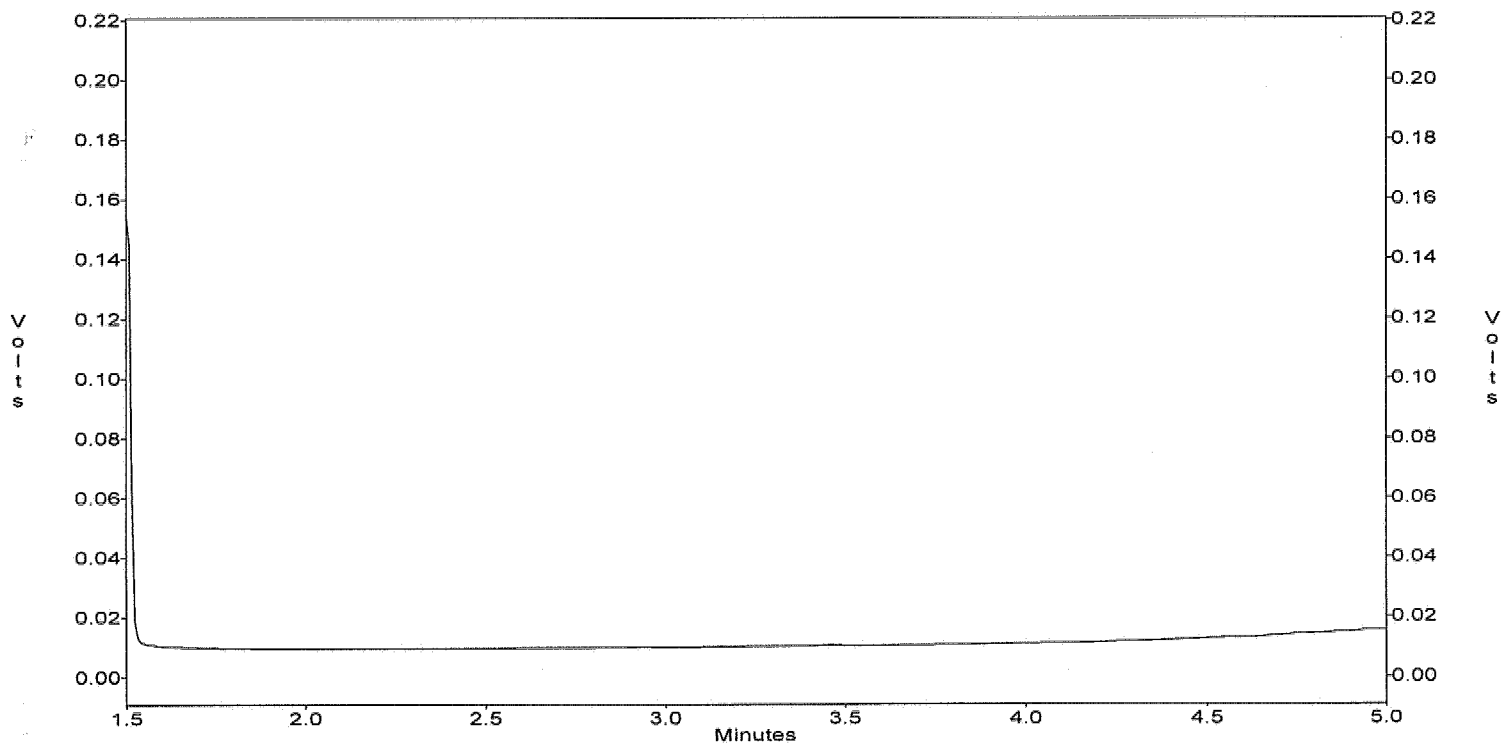
File : c:\ezchrom\chrom\DC24\Dc24.021
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C222-02
Acquired : Mar 24, 2006 15:26:35
Printed : Mar 24, 2006 15:33:36
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0

F
F

c:\ezchrom\chrom\DC24\Dc24.021 -- Channel A



METHOD M8015
ETHYLENE GLYCOL

```
=====  
Client      : ENSR                               Date Collected: 03/23/06  
Project     : UPGRADIENT INVESTIGATION, TRONOX  Date Received: 03/24/06  
Batch No.   : 06C222                             Date Extracted: 03/24/06 15:37  
Sample ID   : H-11                               Date Analyzed: 03/24/06 15:37  
Lab Samp ID: C222-03                             Dilution Factor: 1  
Lab File ID: DC24022A                           Matrix          : WATER  
Ext Btch ID: EGC012W                             % Moisture      : NA  
Calib. Ref.: DC24013A                           Instrument ID   : GCT043  
=====
```

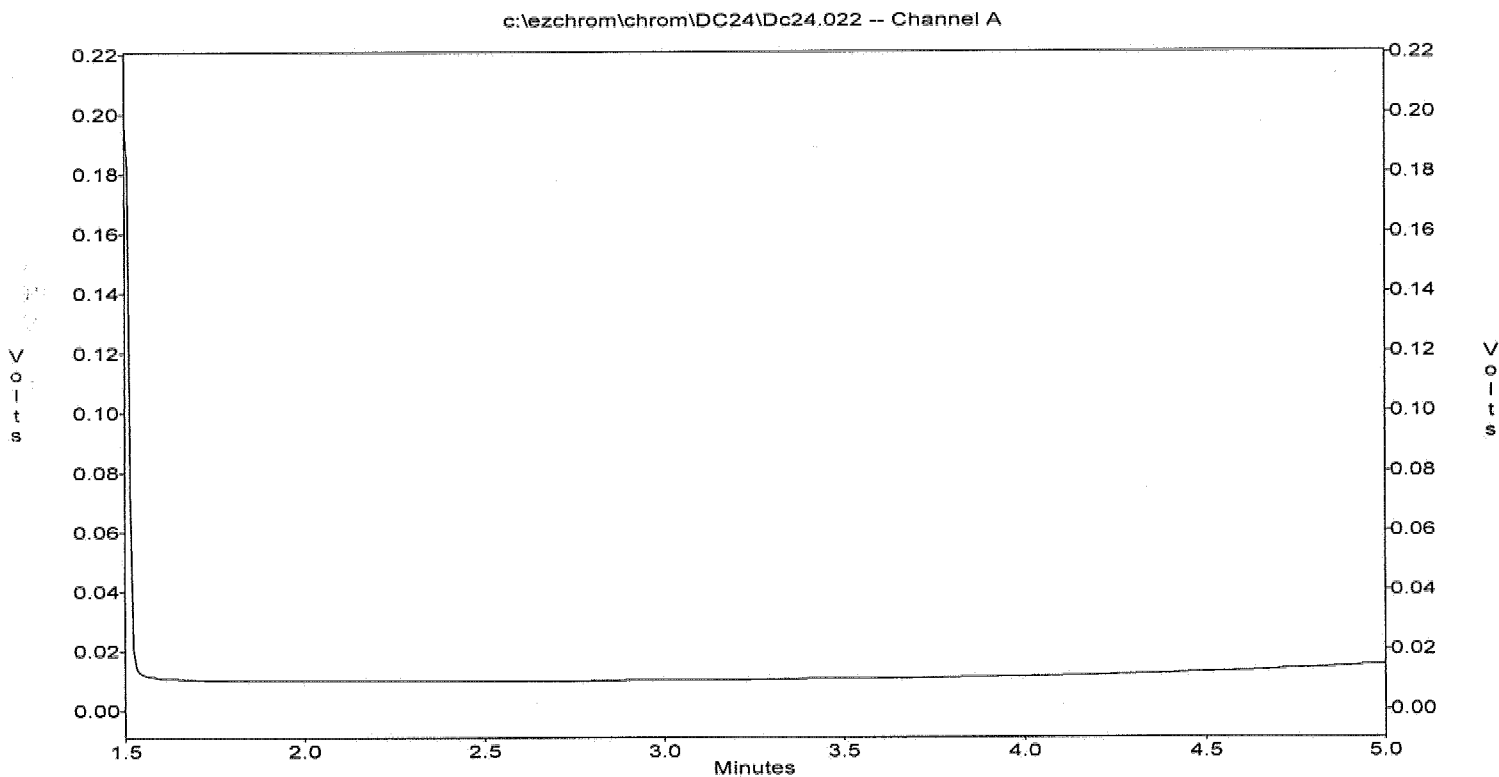
PARAMETERS	RESULTS	RL	MDL
-----	(mg/L)	(mg/L)	(mg/L)
-----	-----	-----	-----
ETHYLENE GLYCOL	ND	10	5

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.022
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C222-03
Acquired : Mar 24, 2006 15:37:06
Printed : Mar 24, 2006 15:44:06
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0



METHOD M8015
ETHYLENE GLYCOL

```
=====
Client      : ENSR                      Date Collected: 03/23/06
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/24/06
Batch No.   : 06C222                   Date Extracted: 03/24/06 15:57
Sample ID   : TRIP BLANK                Date Analyzed: 03/24/06 15:57
Lab Samp ID: C222-04                    Dilution Factor: 1
Lab File ID: DC24023A                   Matrix          : WATER
Ext Btch ID: EGC012W                    % Moisture      : NA
Calib. Ref.: DC24013A                   Instrument ID   : GCT043
=====
```

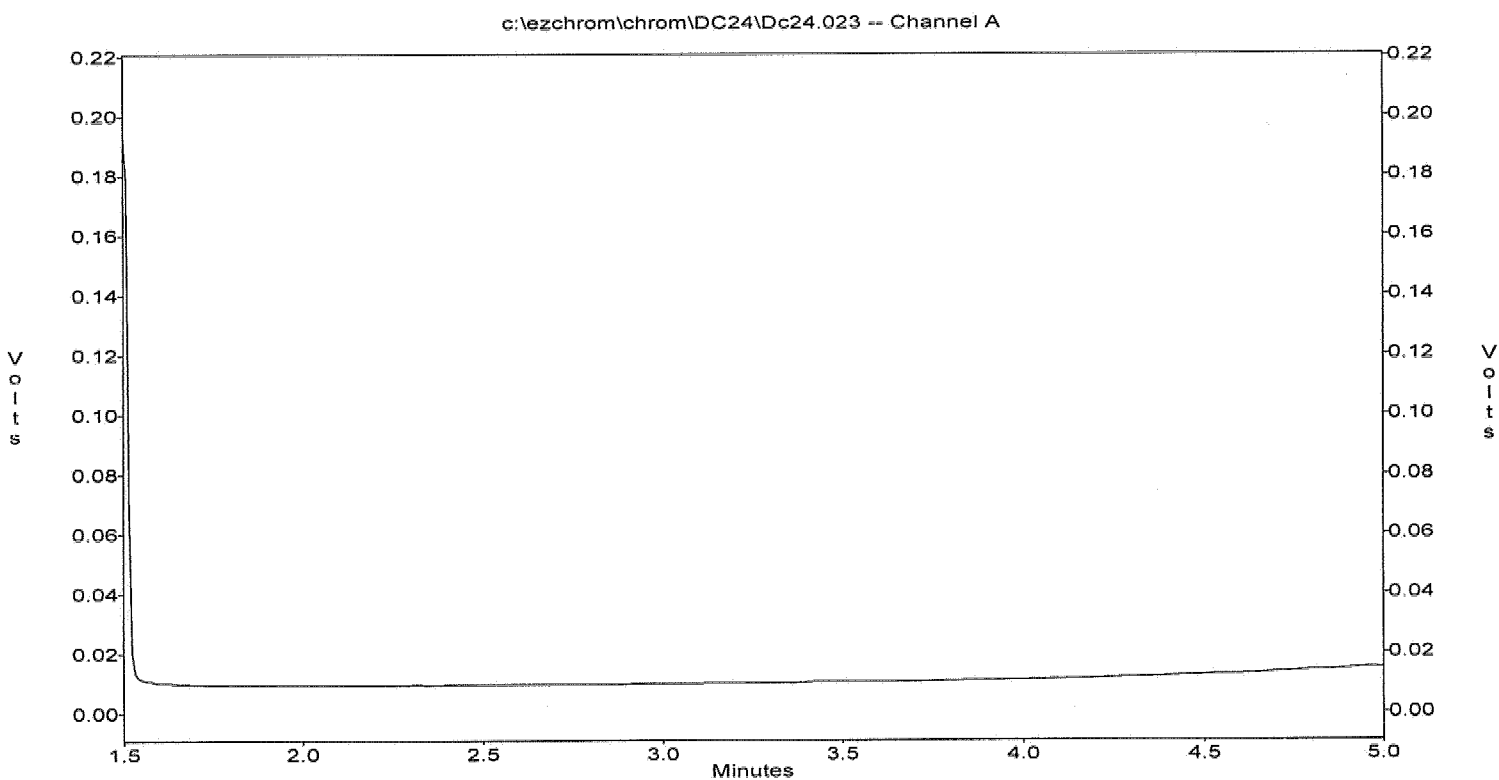
PARAMETERS	RESULTS	RL	MDL
-----	(mg/L)	(mg/L)	(mg/L)
-----	-----	-----	-----
ETHYLENE GLYCOL	ND	10	5

EPA 8015 by GC/FID - GCT043
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.023
 Method : c:\ezchrom\methods\Eg43c10.met
 Sample ID : 06C222-04
 Acquired : Mar 24, 2006 15:57:17
 Printed : Mar 24, 2006 16:04:18
 User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0



QC SUMMARIES

METHOD M8015
ETHYLENE GLYCOL

```
=====
Client      : ENSR                               Date Collected: NA
Project     : UPGRADIENT INVESTIGATION, TRONOX  Date Received: 03/24/06
Batch No.   : 06C222                             Date Extracted: 03/24/06 10:44
Sample ID   : MBLK1W                             Date Analyzed: 03/24/06 10:44
Lab Samp ID: EGC012WB                           Dilution Factor: 1
Lab File ID: DC24003A                           Matrix          : WATER
Ext Btch ID: EGC012W                            % Moisture      : NA
Calib. Ref.: DC24002A                          Instrument ID   : GCT043
=====
```

PARAMETERS	RESULTS	RL	MDL
-----	(mg/L)	(mg/L)	(mg/L)
-----	-----	-----	-----
ETHYLENE GLYCOL	ND	10	5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: METHOD M8015

=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1W
LAB SAMP ID: EGC012WB EGC012WL EGC012WC
LAB FILE ID: DC24003A DC24004A DC24005A
DATE EXTRACTED: 03/24/0610:44 03/24/0610:55 03/24/0611:09 DATE COLLECTED: NA
DATE ANALYZED: 03/24/0610:44 03/24/0610:55 03/24/0611:09 DATE RECEIVED: 03/24/06
PREP. BATCH: EGC012W EGC012W EGC012W
CALIB. REF: DC24002A DC24002A DC24002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Ethylene Glycol	ND	50	50.5	101	50	55.3	111	9	40-140	50

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C222
METHOD: METHOD M8015

=====

MATRIX: WATER % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: M-121
LAB SAMP ID: C222-01 C222-01M C222-01S
LAB FILE ID: DC24027A DC24028A DC24029A
DATE EXTRACTED: 03/24/0616:53 03/24/0617:10 03/24/0617:25 DATE COLLECTED: 03/23/06
DATE ANALYZED: 03/24/0616:53 03/24/0617:10 03/24/0617:25 DATE RECEIVED: 03/24/06
PREP. BATCH: EGC012W EGC012W EGC012W
CALIB. REF: DC24025A DC24025A DC24025A

ACCESSION:

PARAMETER	SMPL RSLT (mg/L)	SPIKE AMT (mg/L)	MS RSLT (mg/L)	MS % REC	SPIKE AMT (mg/L)	MSD RSLT (mg/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Ethylene Glycol	ND	50	39.7	79	50	41.9	85	5	30-140	50

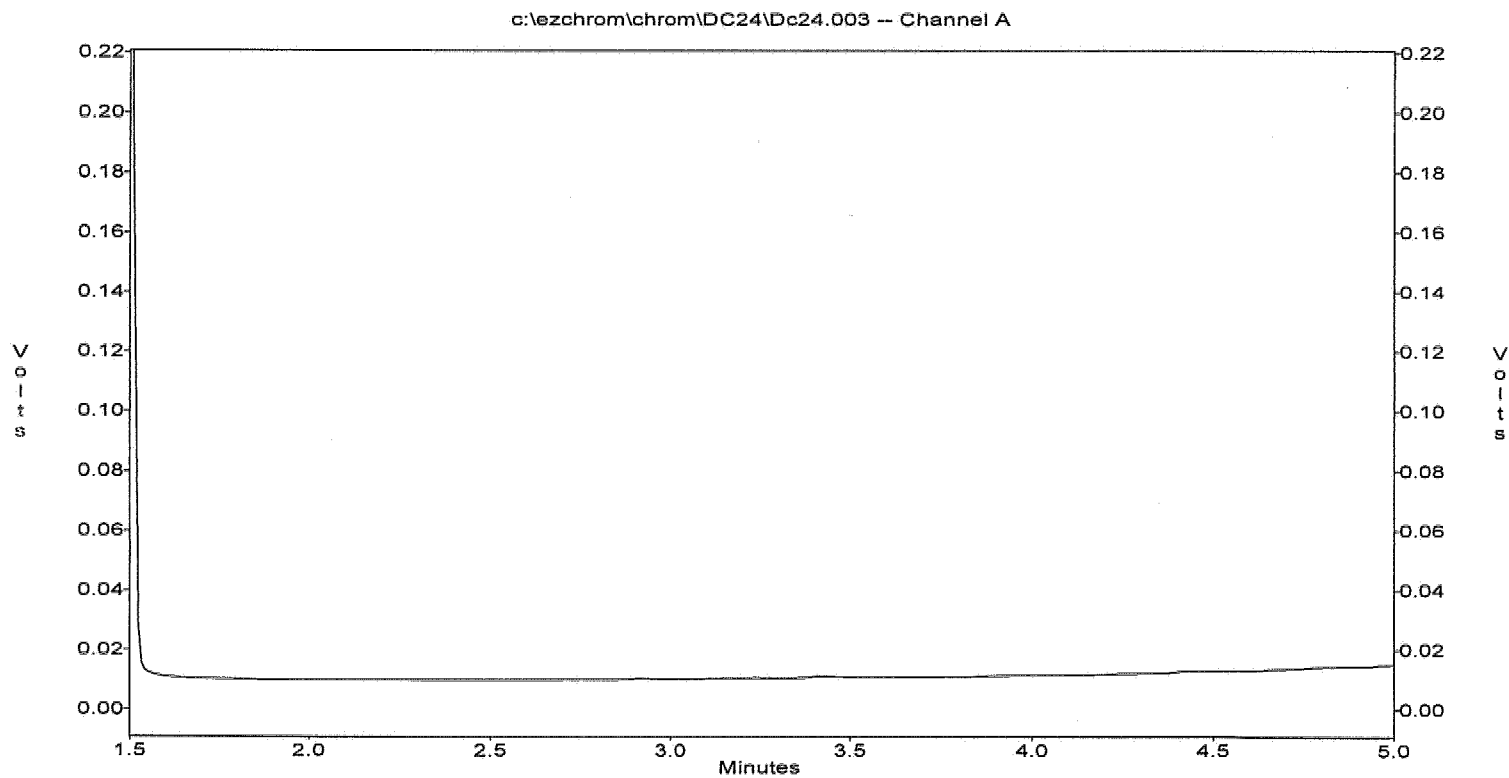
QC DATA

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.003
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : EGC012WB
Acquired : Mar 24, 2006 10:44:07
Printed : Mar 24, 2006 10:51:08
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0

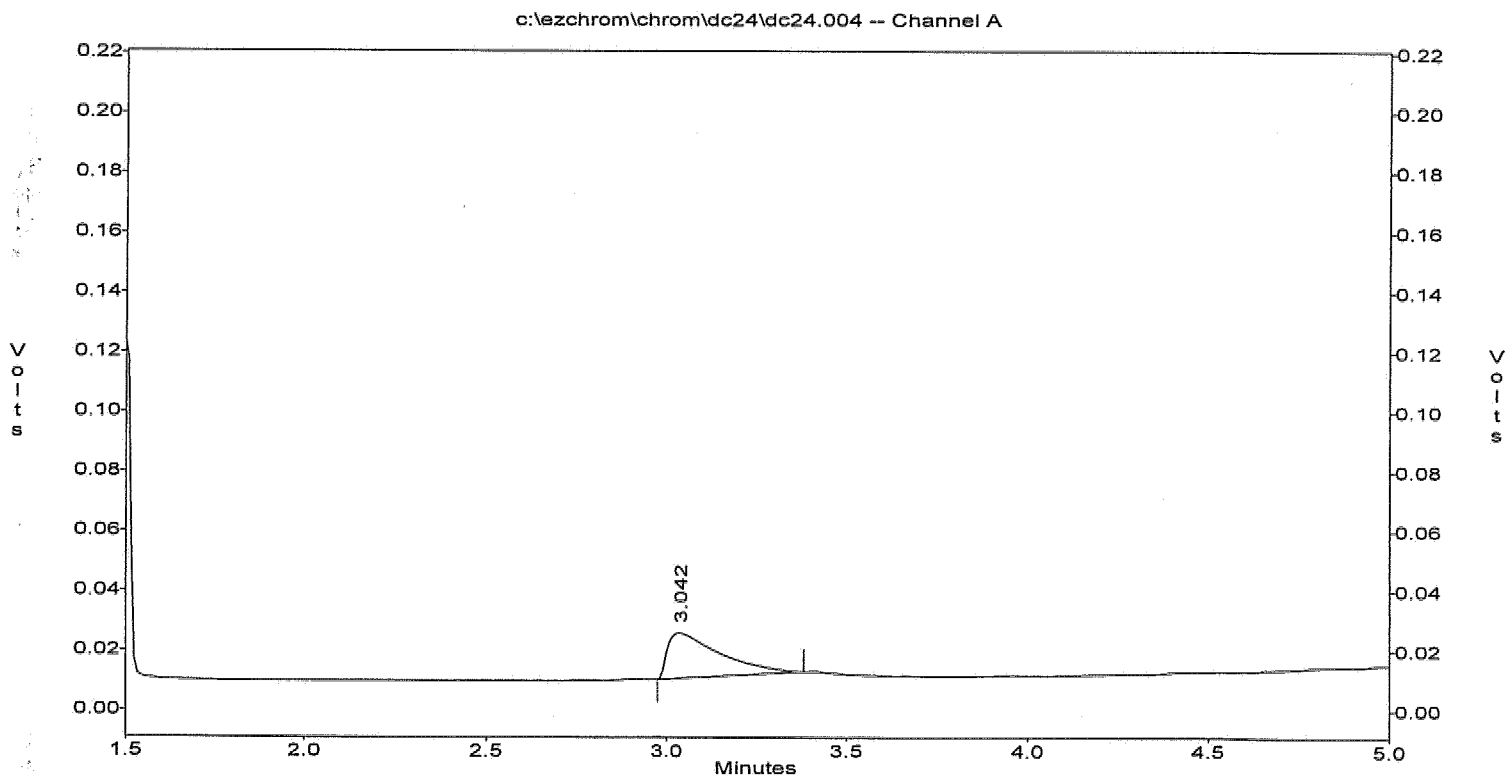


EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc24\dc24.004
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EGC012WL 50PPM
Acquired : Mar 24, 2006 10:55:40
Printed : Mar 24, 2006 11:06:23
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.042	154577	3058.1	50.5

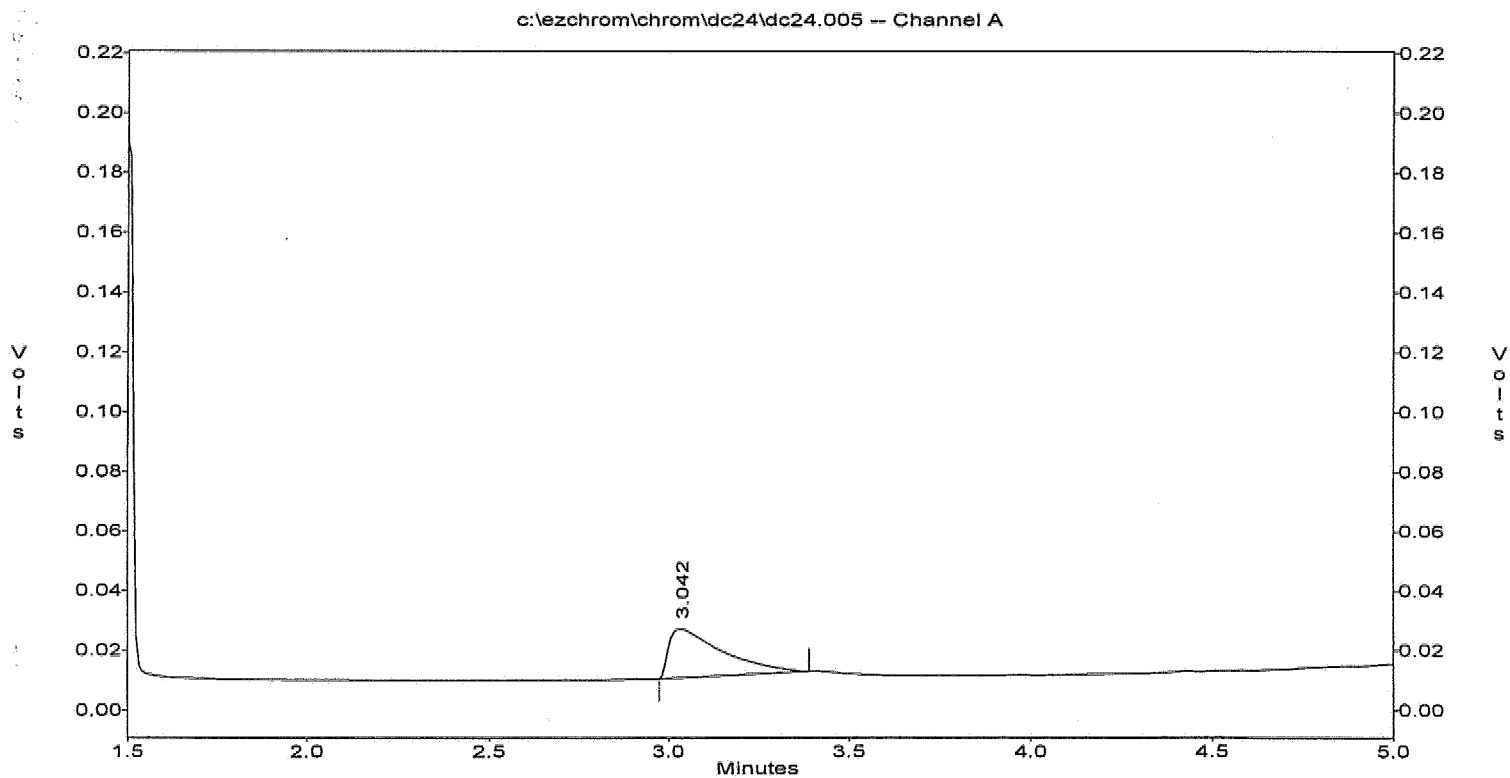


EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc24\dc24.005
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EGC012WC 50PPM
Acquired : Mar 24, 2006 11:09:51
Printed : Mar 24, 2006 11:22:44
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.042	169267	3058.1	55.4



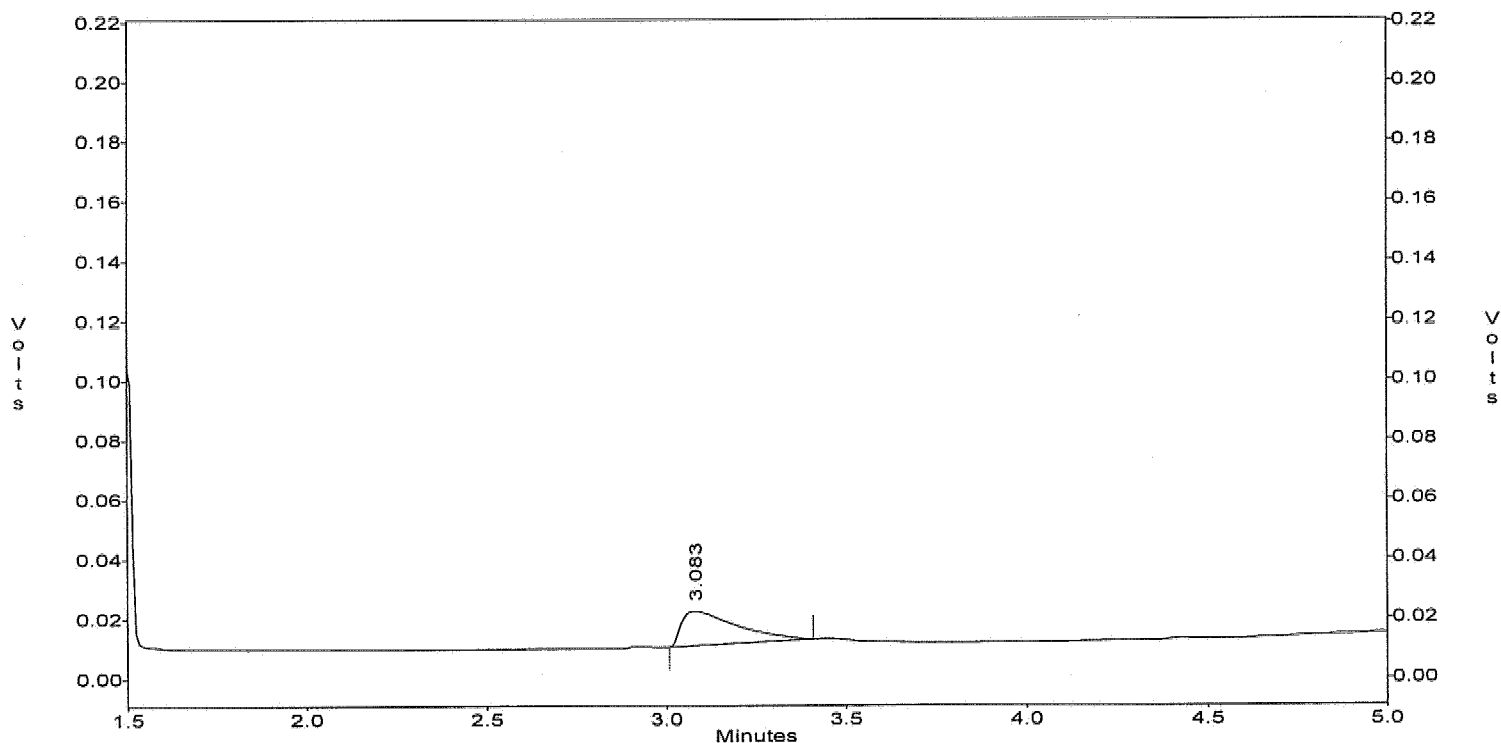
EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.028
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : 06C222-01M
Acquired : Mar 24, 2006 17:10:20
Printed : Mar 24, 2006 17:17:22
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.083	121350	3058.1	39.7

c:\ezchrom\chrom\DC24\Dc24.028 -- Channel A

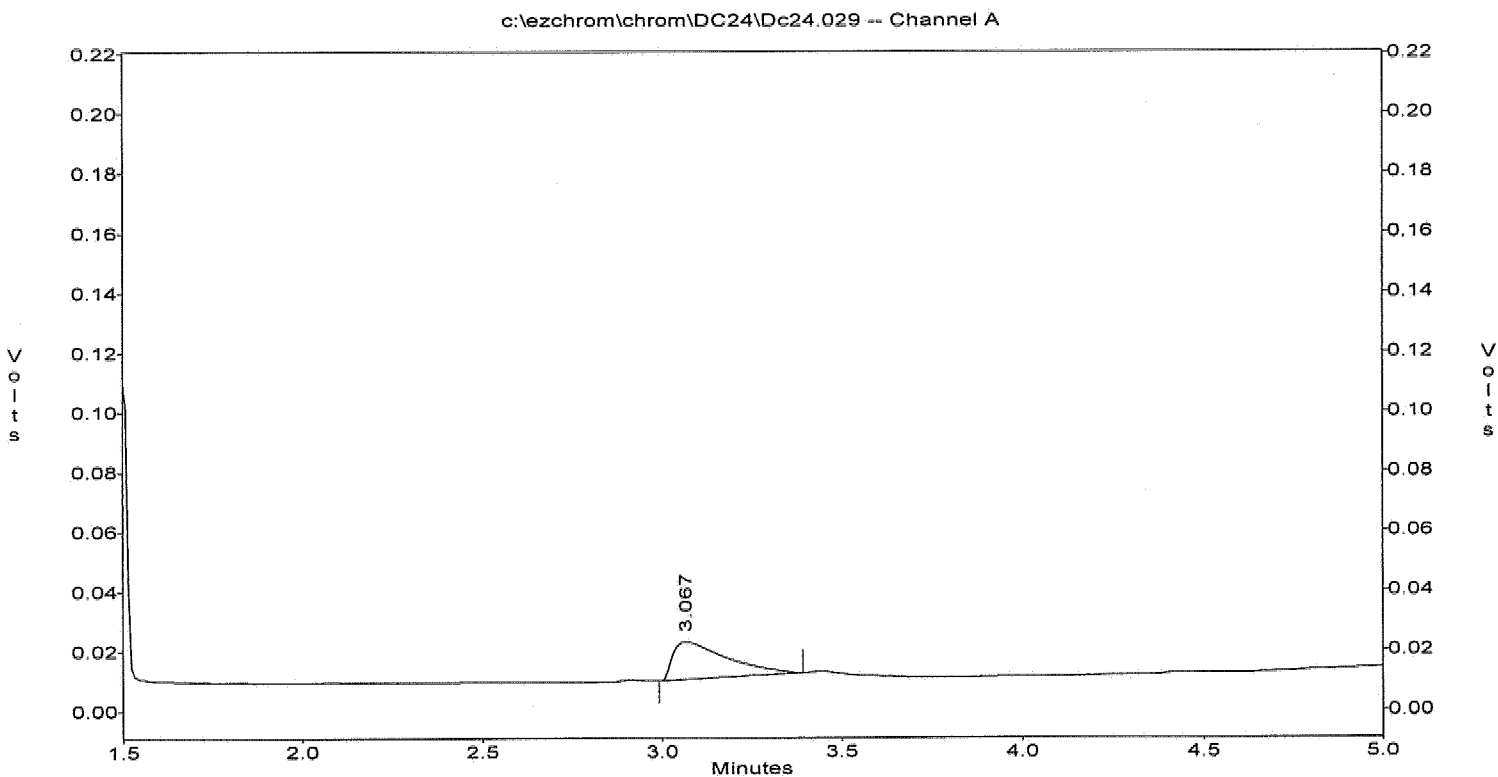


EPA 8015 by GC/FID - GCT043
 EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.029
 Method : c:\ezchrom\methods\Eg43c10.met
 Sample ID : 06C222-01S
 Acquired : Mar 24, 2006 17:25:31
 Printed : Mar 24, 2006 17:32:32
 User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.067	128084	3058.1	41.9



INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015EG

Lab Name : EMAX Inc
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 LFID & Datetime: DC10024A 03/10/06 16:45
 LFID & Datetime: DC10025A 03/10/06 16:57
 LFID & Datetime: DC10026A 03/10/06 17:12
 LFID & Datetime: DC10029A 03/10/06 17:57
 LFID & Datetime: DC10028A 03/10/06 17:39
 CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA or HEIGHT)/UNIT					MEAN	%RSD
		1.00X	2.00X	5.00X	7.50X	10.00X		
Ethylene Glycol	10.00	2634.70	2679.95	3055.42	3332.45	3588.02	3058.11	13.5

EG43C10.MET

ku
3-22-06

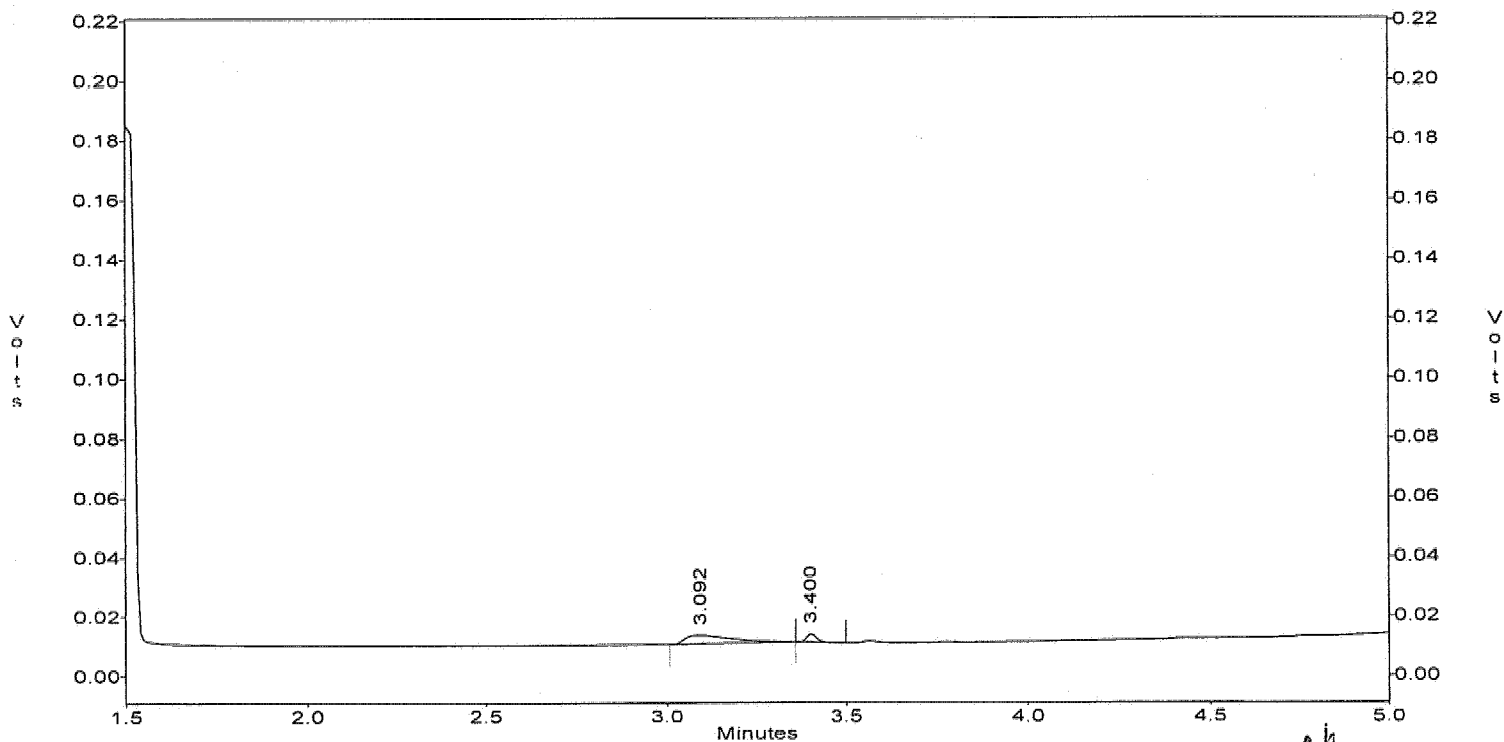
EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.024
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1001 10PPM
Acquired : Mar 10, 2006 16:45:04
Printed : Mar 15, 2006 17:09:13
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.092	26347	3058.1	10.0

c:\ezchrom\chrom\dc10\dc10.024 -- Channel A



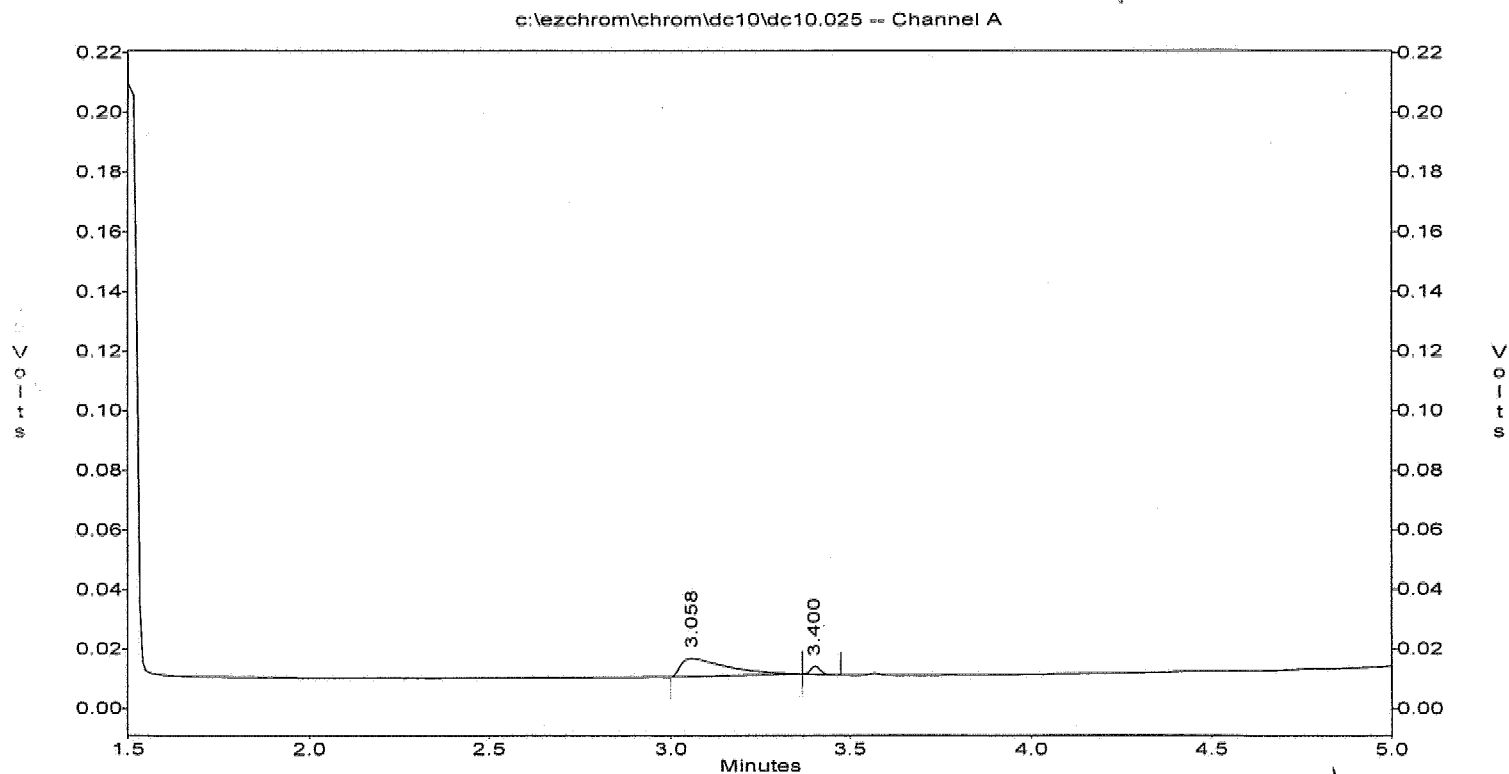
Handwritten: 3/22/06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.025
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1002 20PPM
Acquired : Mar 10, 2006 16:57:52
Printed : Mar 15, 2006 17:09:44
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.058	53599	3058.1	20.0



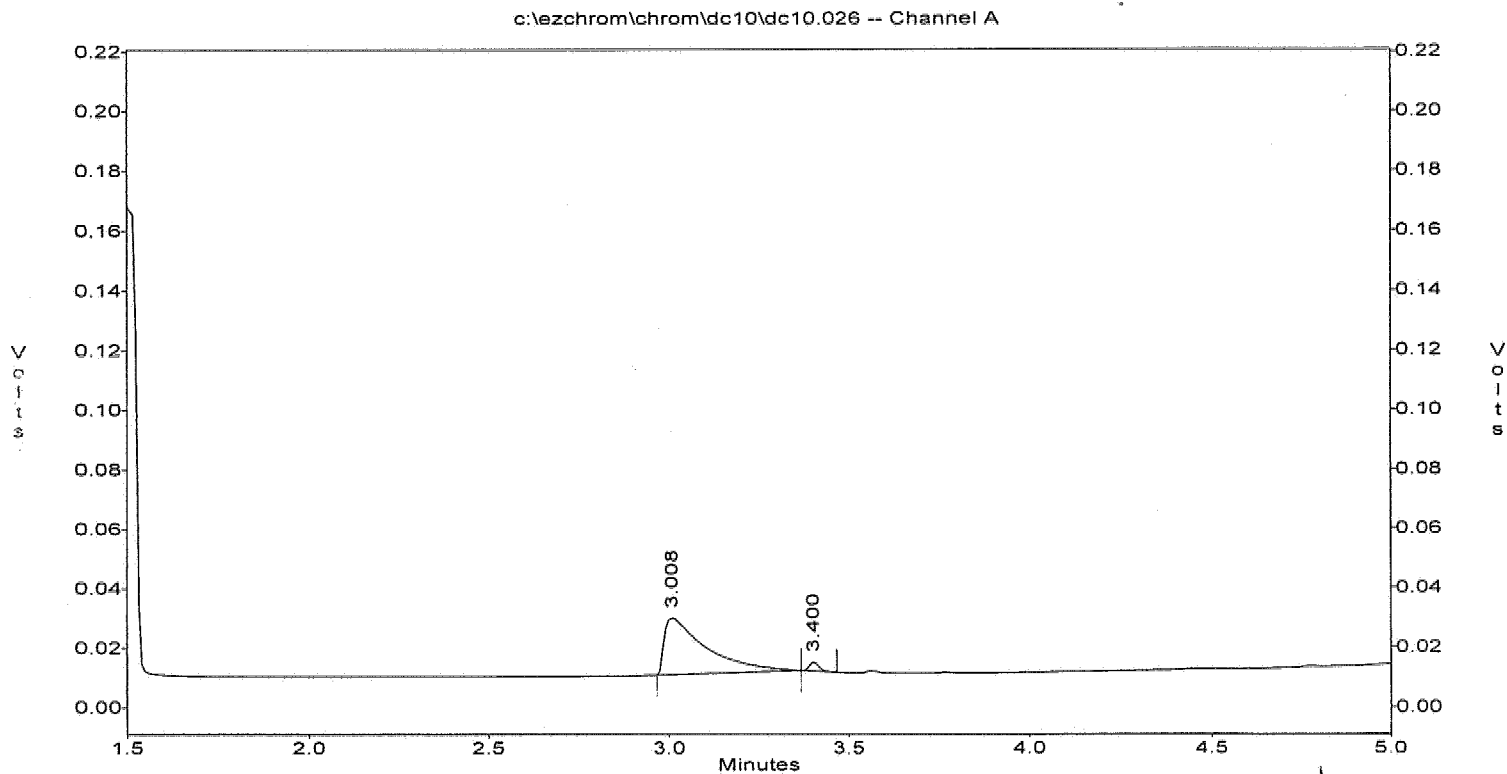
Handwritten: 3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.026
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1003 50PPM
Acquired : Mar 10, 2006 17:12:34
Printed : Mar 15, 2006 17:09:57
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.008	152771	3058.1	50.0



Handwritten: 3-15-06

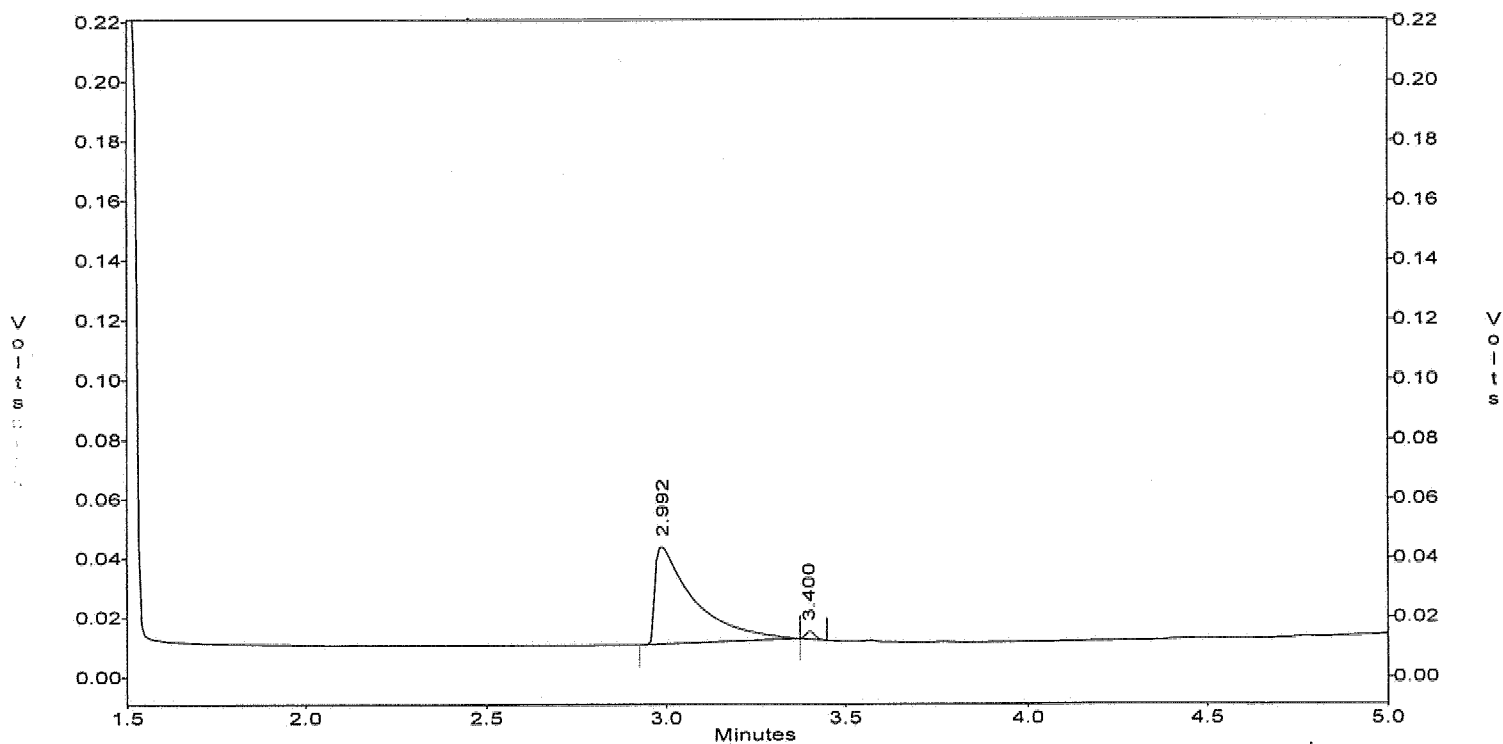
EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.029
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1004 75PPM
Acquired : Mar 10, 2006 17:57:02
Printed : Mar 15, 2006 17:10:07
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.992	249934	3058.1	75.0

c:\ezchrom\chrom\dc10\dc10.029 -- Channel A



Handwritten: 3-22-06

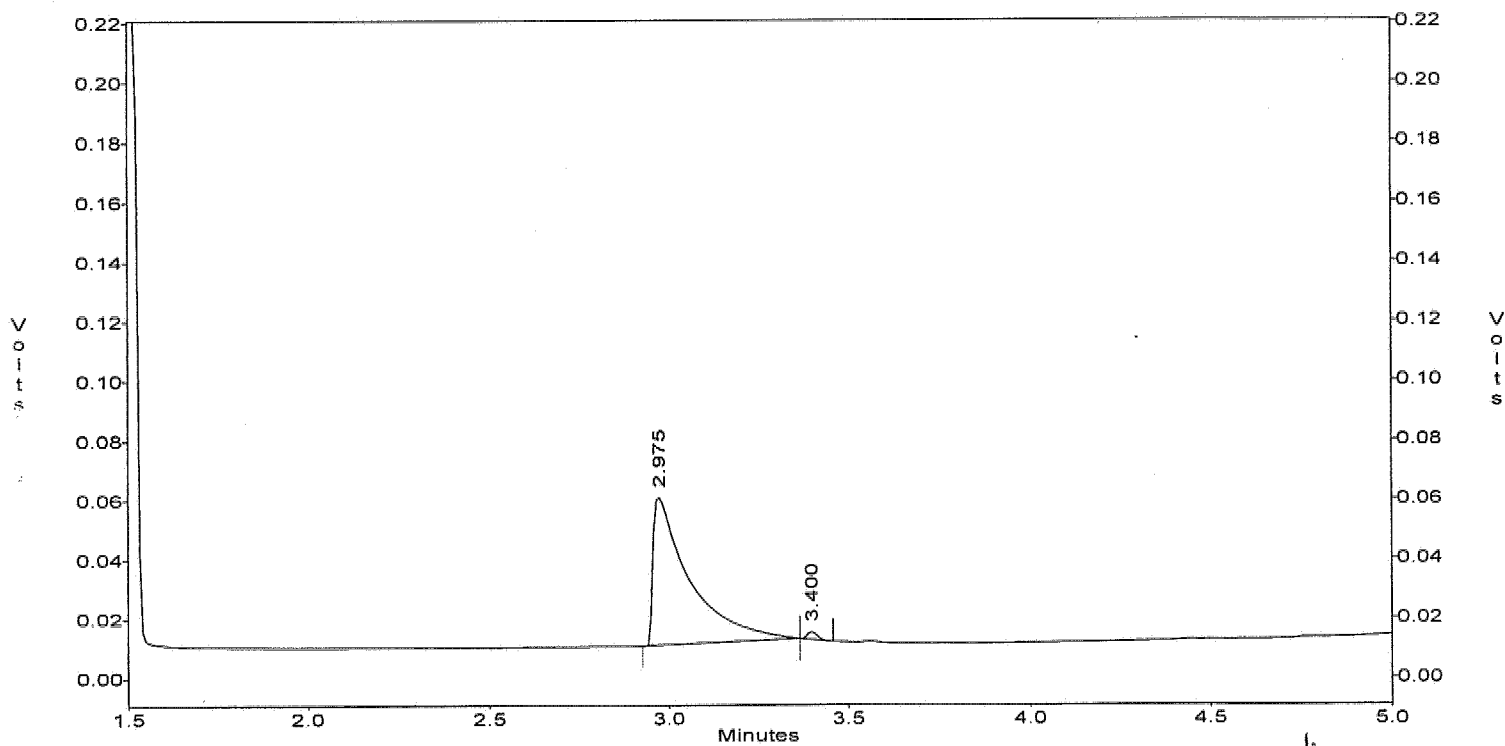
EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.028
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : EG43C1005 100PPM
Acquired : Mar 10, 2006 17:39:51
Printed : Mar 15, 2006 17:10:18
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	2.975	358802	3058.1	100.0

c:\ezchrom\chrom\dc10\dc10.028 -- Channel A



40
3-23-06

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015EG

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
 Conc Cont LFID & Datetime: DC10030A 03/10/2006 18:14
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT			%D	QL	%D LIMITS
		FROM	TO			AREA	CONC				
Ethylene Glycol	3.008	2.769	3.247	50.0	3058.1	174073	56.92	14			15

EG43C10.MET

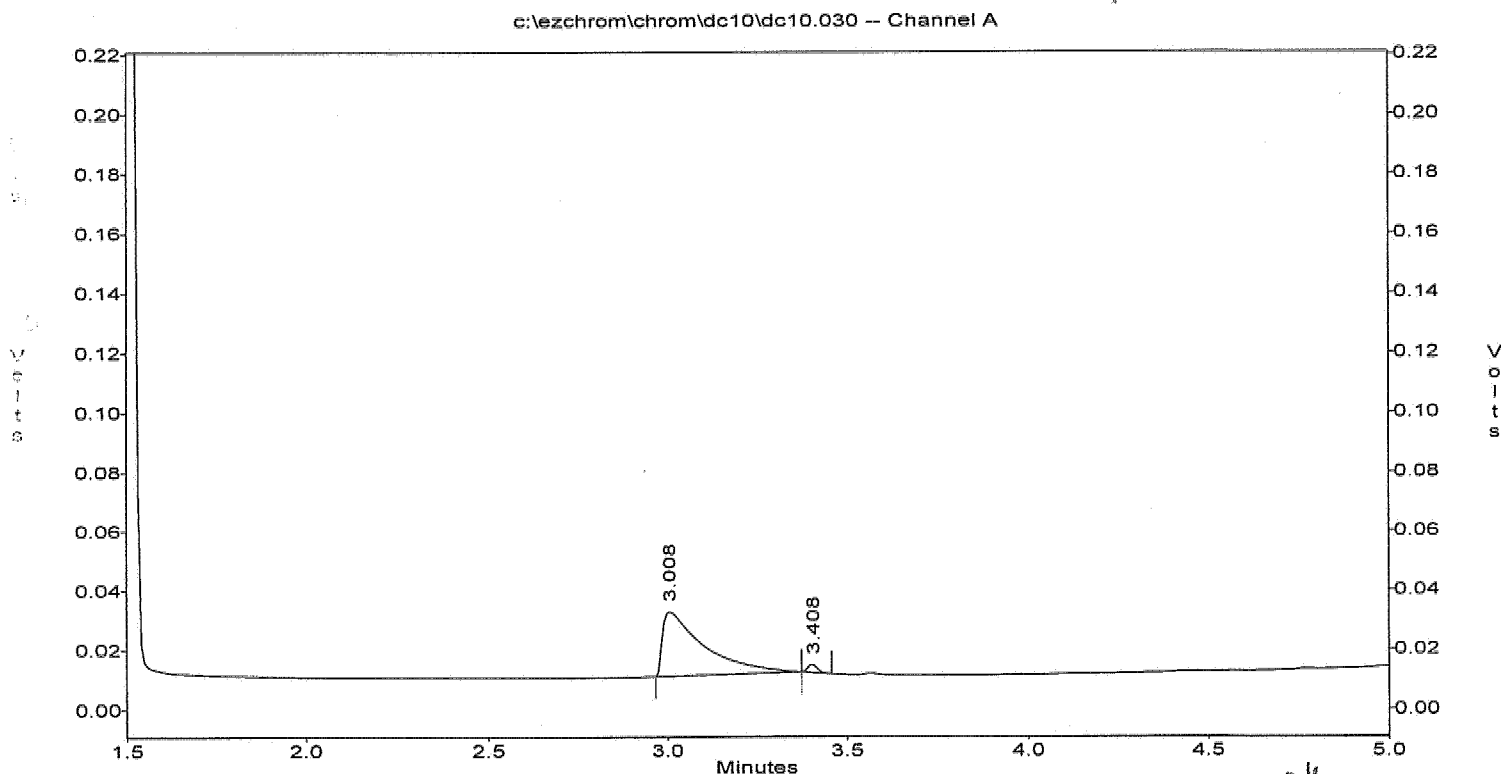
Handwritten:
 3-22-06

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.030
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : IEG43C1001 50PPM
Acquired : Mar 10, 2006 18:14:40
Printed : Mar 15, 2006 17:10:38
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.008	174073	3058.1	56.9



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3-22-06

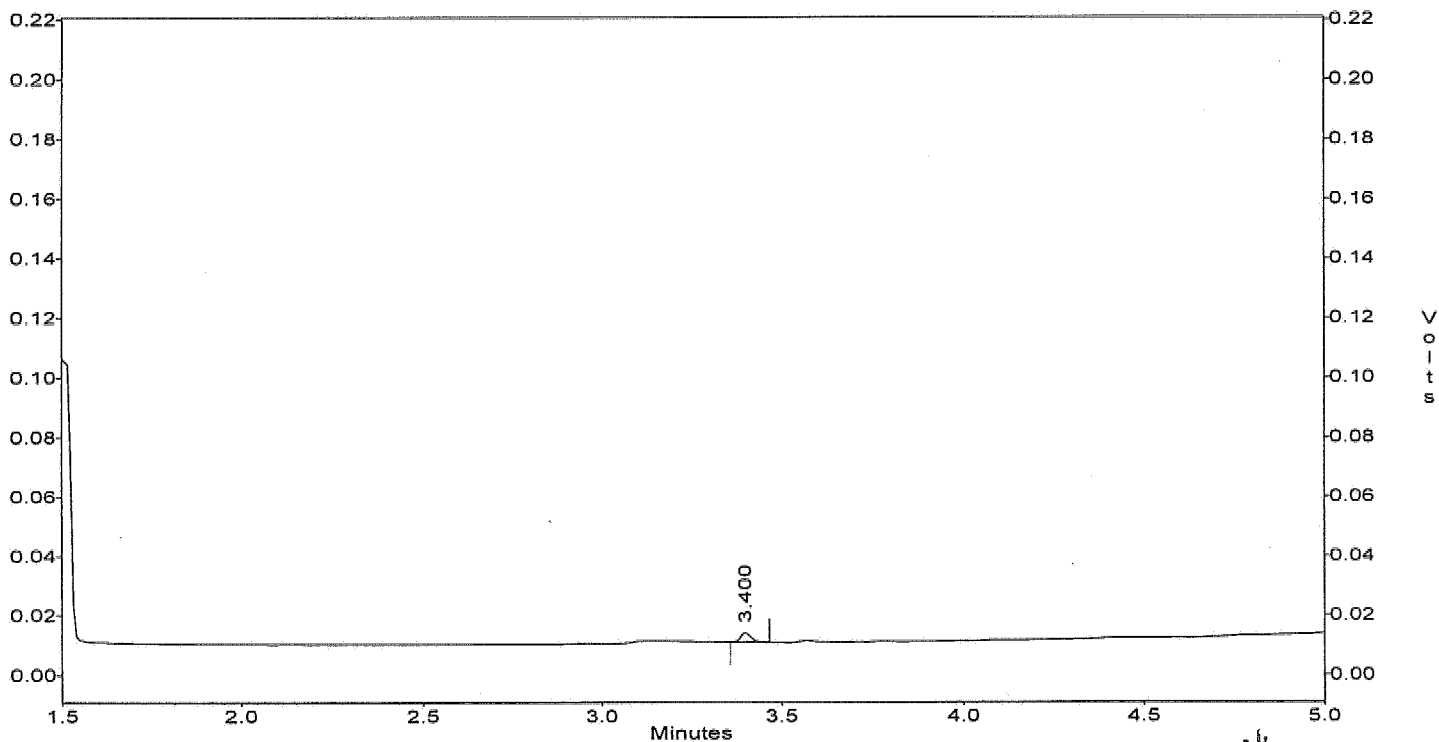
EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc10\dc10.023
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : IB43C021
Acquired : Mar 10, 2006 16:33:44
Printed : Mar 15, 2006 17:10:52
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	Ethylene Glycol	2.975	0	0.0	0.0

c:\ezchrom\chrom\dc10\dc10.023 -- Channel A



Handwritten: 704
3-22-06

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015EG

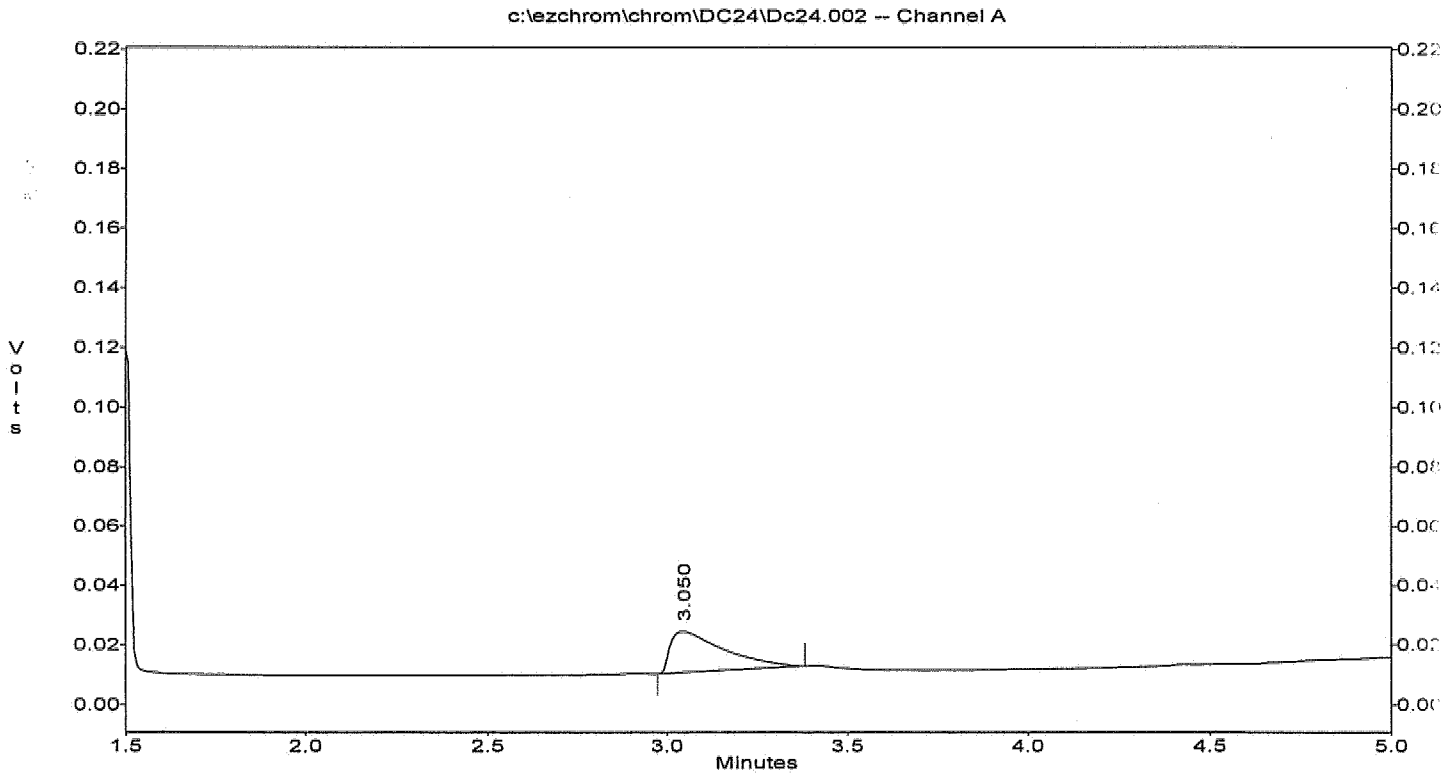
Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
 Conc Cont LFID & Datetime: DC24002A 03/24/2006 10:24
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Ethylene Glycol	3.050	2.811	3.289	50.0	3058.1	140705	46.01	-8		15

File : c:\ezchrom\chrom\DC24\Dc24.002
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : CEG43C10053
Acquired : Mar 24, 2006 10:24:53
Printed : Mar 24, 2006 10:31:54
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.050	140705	3058.1	46.0



CONTINUE CALIBRATION
METHOD M8015EG

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
 Conc Cont LFID & Datetime: DC24013A 03/24/2006 13:35
 CONC UNIT : ppm

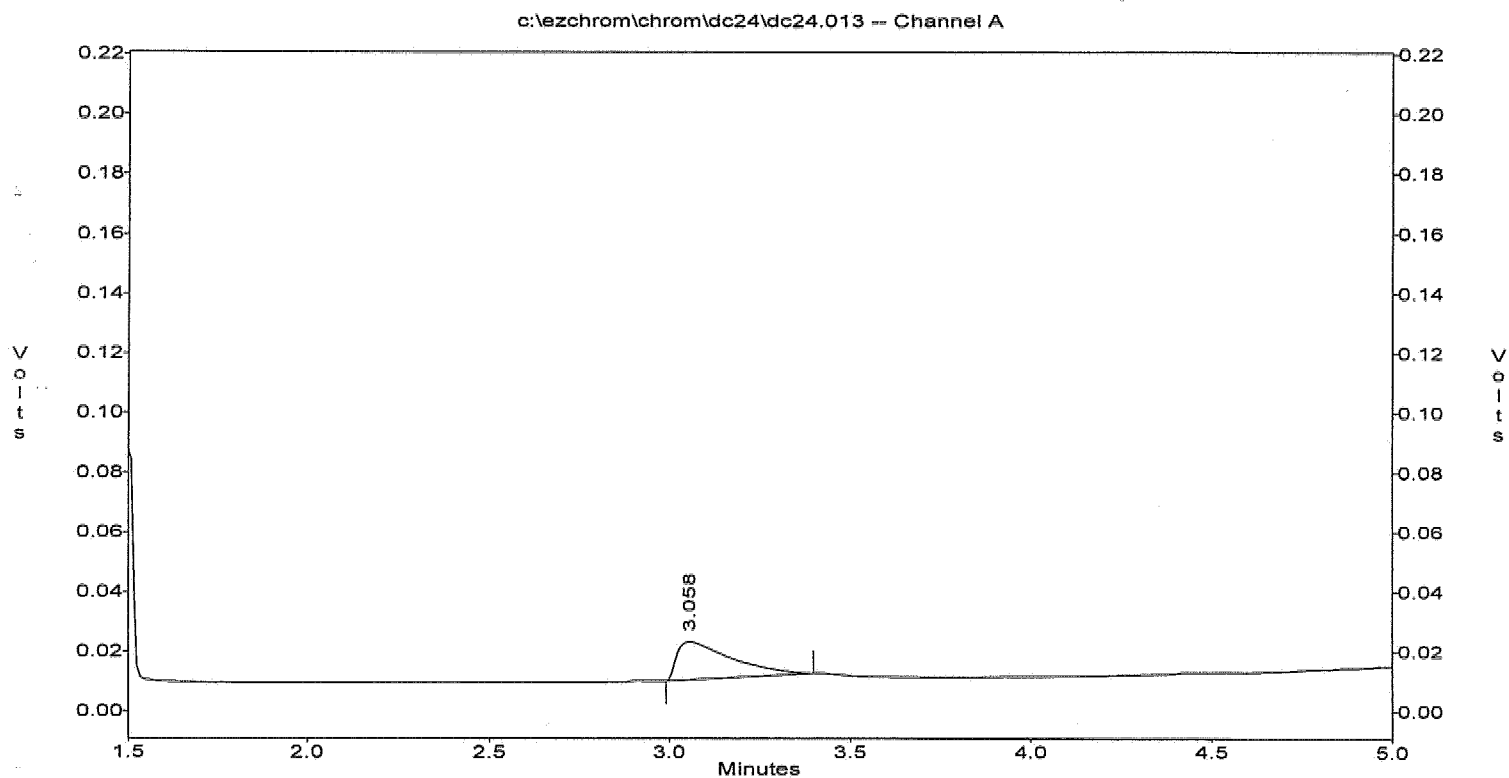
COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Ethylene Glycol	3.058	2.819	3.297	50.0	3058.1	133399	43.62	-13		15

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dc24\dc24.013
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : CEG43C10054
Acquired : Mar 24, 2006 13:35:30
Printed : Mar 24, 2006 13:48:13
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.058	133399	3058.1	43.6



CONTINUE CALIBRATION
METHOD M8015EG

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
 Conc Cont LFID & Datetime: DC24025A 03/24/2006 16:25
 CONC UNIT : ppm

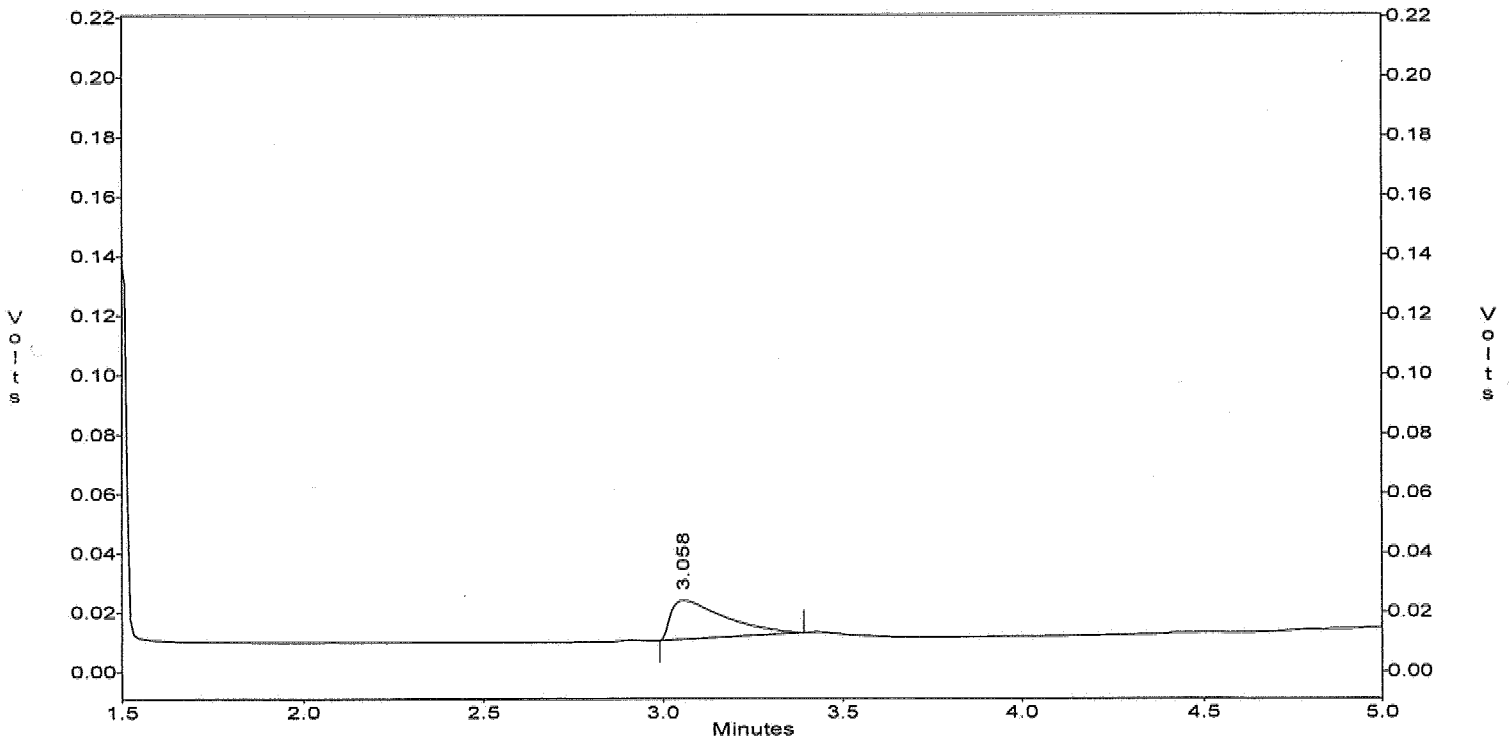
COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Ethylene Glycol	3.058	2.819	3.297	50.0	3058.1	135993	44.47	-11		15

File : c:\ezchrom\chrom\DC24\DC24.025
Method : c:\ezchrom\methods\eg43c10.met
Sample ID : CEG43C10055
Acquired : Mar 24, 2006 16:25:50
Printed : Mar 27, 2006 08:59:41
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.058	135993	3058.1	44.5

c:\ezchrom\chrom\DC24\DC24.025 -- Channel A



CONTINUE CALIBRATION
METHOD M8015EG

Lab Name : EMAX
 Instrument ID : GCT043
 GC Column : SUPELCO WAX 10
 Column size ID : 30MX0.53MMX0.25UM
 Mid Conc Init LFID & Datetime: DC10026A 03/10/2006 17:12
 Conc Cont LFID & Datetime: DC24030A 03/24/2006 17:37
 CONC UNIT : ppm

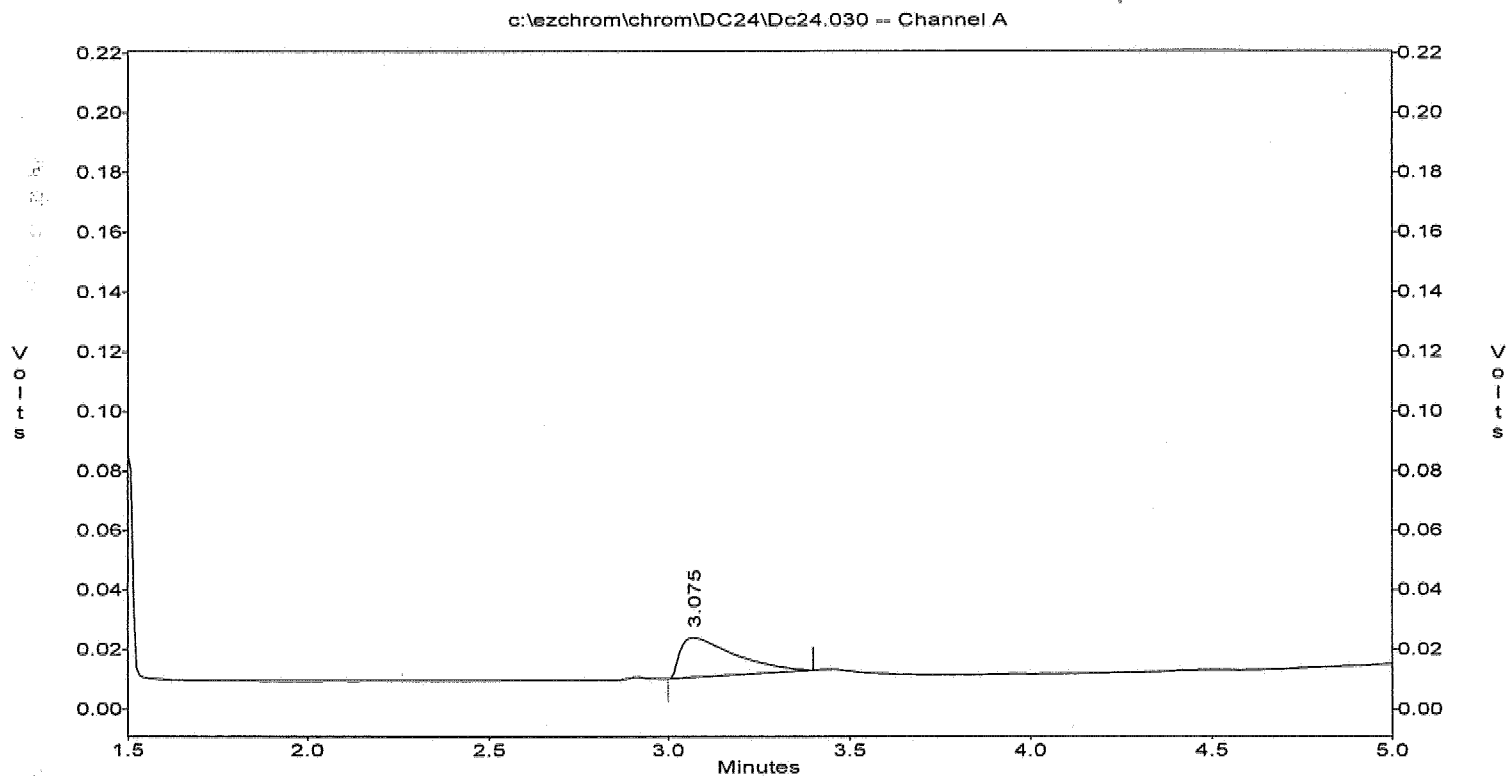
COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
Ethylene Glycol	3.075	2.836	3.314	50.0	3058.1	137373	44.92	-10		15

EPA 8015 by GC/FID - GCT043
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC24\Dc24.030
Method : c:\ezchrom\methods\Eg43c10.met
Sample ID : CEG43C10056
Acquired : Mar 24, 2006 17:37:17
Printed : Mar 24, 2006 17:44:19
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
1	Ethylene Glycol	3.075	137373	3058.1	44.9



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP □ EMAX-M8015D Revision No. 3 □ EMAX-LUFTE Revision No. 3 □ *EGlycine Glycol* Book # A43-012

Starting Date: 3/10/06 Time: 16:33 Ending Date: 3/10/06 Time: 18:14

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes	Instrument No:	43
				S	W			
N/A	DC10.023	IB43C021	NA				INITIAL CALIBRATION REFERENCE	
	24	EG43C1001			10 ppm			
	25	02			20			
	26	03			50			
	27	04			75	Bad inj.		
	28	05			100		EG43C10	3/10/06
	29	04			75		Standards	
	30	IEG43C1001			50			
ANALYTICAL BATCH <u>NA</u>								

Name	ID	Conc. (mg/L)
CH ₂ Cl ₂		
DCC/Deal	SS9C-07-13-3	10-100
LCS/FCV	SS9C-07-14-1	50

Electronic Data Archival		
Location	Date	
BEZC_2_Diesel	3/13/06	

Comments:

Analyzed By: *KP*

Disposed on: *3/10/06* By: *KP*

This page is checked during the data review process.

ANALYSIS RUN LOG FOR TPH

Book # A43-012

SOP □ EMAX-M8015D Revision No. 3 □ EMAX-LUFTE Revision No. 3 □ Ethylene Glycol

Starting Date: 3/24/06 Time: 10:13 Ending Date: 3/24/06 Time: 16:25

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes	Instrument No:	INITIAL CALIBRATION REFERENCE	
				S	W			ID	Date
	DC24.021	IB43C053							
	2	CEG43C10053	2			50ppm			
EGC012W	3	EGC012W3	1	✓					
	4	L			50ppm (204)				
	5	C							
	6	06C197-01			pH 7		EG43E10	3/10/06	
	7	02					Standards		
	8	03					Name	ID	Conc. (mg/L)
	9	04					CH ₂ Cl ₂		
	10	06C199-01					DCC	SS3E-07-12-3	100
	11	06C204-01					LCS	SS3E-07-12-2	1000
	12	03					H ₂ O	organic free	
	13	CEG43C10054	2		50ppm		NaOH	SW7A-06-255	50%
	14	TEST					Electronic Data Archival		
EGC012W	15	06C204-02	1	✓		Isopropyl Alk			
	16	06C193-01				pH < 2 - adjusted to pH 7			
	17	02				pH 7			
	18	03							
	19	04							
	20	05							
	21	06C222-02				pH < 2 - adjusted to pH 7			
	22	03				pH 7			
	23	04				pH 5			
	24	CEG43C10055	2			pH < 2 - adjusted to pH 7			
	25	CEG43C10055	2			Bad inj.			
						50ppm			

ANALYTICAL BATCH DC24002

Comments: _____
 Analyzed By: NP
 Disposed on: 3/27/06
 By: SP

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ANALYSIS RUN LOG FOR TPH

Book # A43-012

SOP EMAX-M8015D Revision No. 2 EMAX-LUFTE Revision No. 2 Ethylene Glycol

Starting Date: 3/24/06 Time: 16:41

Ending Date: 3/24/06

Time: 17:37

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes
				S	W	
EGC01240	DC24-026	10 ppm	1			
	27	06C222-01		✓		PH7
	28	01M				50 ppm (20x) PH7
	29	01S				↓
	30	CEG43C10056	2			5 ppm

Instrument No: 43		INITIAL CALIBRATION REFERENCE	
Diesel	ID	Date	
Motor oil			
JP 5			
Alcohols			
E-Glycol	EG43C10	3/10/06	

Standards		Conc. (mg/L)	
Name	ID		
CH ₂ Cl ₂			
DCC	SS3C-07-12-3	10D	
LCS/MS	SS3C-07-12-2	10SD	
H ₂ O	organic free		

Electronic Data Archival	
Location	Date
<input type="checkbox"/> EZC_2_Diesel	
<input type="checkbox"/>	

Comments:

Analyzed By: XP

Disposed on: 3/27/06 By: XP

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ANALYTICAL BATCH DC24-026