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CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C238

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WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested



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

Date: 04-13-2006
 EMAX Batch No.: 06C238

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 03/25/06.
 The data reported include :

Sample ID	Control #	Col Date	Matrix	Analysis
M120-0.5R	C238-01	03/24/06	SOIL	METHANOL & ETHANOL
M121-0.5R	C238-02	03/24/06	SOIL	METHANOL & ETHANOL
M118-0.5R	C238-03	03/24/06	SOIL	METHANOL & ETHANOL
M117-0.5R	C238-04	03/24/06	SOIL	METHANOL & ETHANOL
M116-0.5R	C238-05	03/24/06	SOIL	METHANOL & ETHANOL
TRIP BLANK	C238-06	03/24/06	WATER	METHANOL & ETHANOL

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

08C238

EMAX Laboratories
Ye Myint (310) 618-8889 X121
1835 West 205th Street
Torrance, CA 90501 SITE Henderson DATE 3/24/06 PAGE 1 OF 1

ANALYTICAL LAB: VMS-19
C12

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



CLIENT		ANALYTICAL METHODS										TURN-AROUND TIME				
PROJECT NAME: Upgrade Investigation		ANALYTICAL METHODS										STANDARD				
PROJECT MANAGER: Dore Gery		ANALYTICAL METHODS										OBSERVATIONS/ COMMENTS				
JOB #: 04020-023-150		ANALYTICAL METHODS														
COELT LOG CODE: YES <input checked="" type="checkbox"/>		ANALYTICAL METHODS														
SAMPLER SIGNATURE: Brian Ho		ANALYTICAL METHODS														
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 8015					MATRIX TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS
1.	M120-0.5R	3/24/06	09:10						X					S	S	1
2.	M121-0.5R	3/24/06	09:25						X					S	S	1
3.	M118-0.5R	3/24/06	09:45						X					S	S	1
4.	M117-0.5R	3/24/06	12:12						X					S	S	1
5.	M116-0.5R	3/24/06	12:27						X					S	S	1
6.	Trip Blank	3/24/06	-						X					S	S	2
7.																
8.																
9.																
10.																

MATRIX S - Soil
TYPE: W - Water O - Other

CONTAINER G - Glass Bottle P - Plastic O - Other

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

TEMPERATURE BLANK EACH COOLER YES NO

T-3.6°C

RELINQUISHED BY:	SIGNATURE	DATE	TIME	TOTAL NUMBER OF CONTAINERS:
RECEIVED BY:	Brian Ho	3/24/06	15:00	
RELINQUISHED BY:	Federal Express	3/24/06	15:00	METHOD OF SHIPMENT: Federal Express
RECEIVED BY:	APR 2	3-23-06	10:45	SPECIAL SHIPMENT/HANDLING/STORAGE REQUIREMENTS:

Serial No. 5166

Pink = ENSR International

White and Canary = Laboratory

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN	06 C238
<input type="checkbox"/> EMAX Courier		Recipient	Anthony F
<input type="checkbox"/> Client Delivery		Date	3/25/06
<input checked="" type="checkbox"/> Third Party <u>Fedex</u>	<u>8562 4152 9941</u>	Time	10:45

COC Inspection		
<input type="checkbox"/> Client Name	<input checked="" type="checkbox"/> Sampler Name	<input checked="" type="checkbox"/> Sampling Date/Time/Location
<input type="checkbox"/> Address	<input type="checkbox"/> Courier Signature/Date/Time	<input 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 type="checkbox"/> Bubble Pack	<input type="checkbox"/> Styrofoam	<input checked="" type="checkbox"/> Sufficient	<input checked="" type="checkbox"/> Plastic Bag
Temperatures <input checked="" type="checkbox"/> Cooler 1 <u>3.6°C</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
04	M117-0.5R	Time 12:25 on label	
05	M116-0.5R	Time 12:35 on label.	
06	Trip Blank	EMAX Trip Blank No Client label on vial	

LSCID : Lab Sample Container ID

REVIEWS
Sample Labeling [Signature]
Date 3/25/06

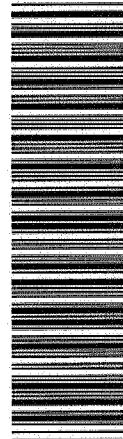
SRF [Signature]
Date 3/27/06

PM [Signature]
Date 3/27/06

FedEx US Airbill[®]
Express

1 From 3/24/06 Date 8562 4152 9941 FedEx Tracking Number
 Sender's Name Brini Ho Phone 805 795-3334
 Company ENSR
 Address 1220 Avenida Acoso
 City Compton State CA ZIP 93012
Dept./Floor/Suite/Room

2 Your Internal Billing Reference 04020-023-150
 3 To Recipient's Name Ye Myint Phone 310 618-8889
 Company EMAX Labs
 Recipient's Address 1835 West 205th Street 1044
We expect delivery to P.O. boxes or P.O. ZIP codes.
 Address Torrance State CA ZIP 90501
Dept./Floor/Suite/Room



8562 4152 9941

0200

Recipients Copy

4a Express Package Service
 FedEx Priority Overnight
Next business morning. Next business day. Delivery to select locations. Saturday delivery NOT available.
 FedEx Standard Overnight
Next business day. Saturday delivery NOT available.
 FedEx Express Saver
Third business day. Saturday delivery NOT available.

4b Express Freight Service
 FedEx 1Day Freight
Next business day. Monday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 2Day Freight
Second business day. Monday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 3Day Freight
Third business day. Monday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 Packaging
 FedEx Envelope
 FedEx Pak
Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
 FedEx Box
 FedEx Tube
 Other

6 Special Handling
 SATURDAY Delivery
Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 2Day Freight.
 HOLD Weekday at FedEx Location
Not available for FedEx First Overnight, FedEx Express Saver, or FedEx 2Day Freight.
 HOLD Saturday at FedEx Location
Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

7 Payment **BILL TO**
 Sender
Sender's account in the bill.
 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 3A
 Total Declared Value \$ 400.00

Total Changes
 Credit Card Auth.

520

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 M8015
ALCOHOLS BY GC

SDG#: 06C238

CASE NARRATIVE

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
SDG: 06C238

METHOD M8015 ALCOHOLS BY GC

One (1) water and five (5) soil samples were received on 03/25/06 for Alcohols by GC analysis by Method M8015 in accordance with USEPA SW846, 3rd Ed.

1. Holding Time

Analytical holding time was met. Water sample was preserved and adjusted to pH 7 prior to analysis.

2. Calibration

Initial calibration was five points. %RSDs were within 20%. Continuing calibrations were carried out within 10-sample interval. All recoveries were within 85-115%.

3. Method Blank

Method blanks were 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

No MS/MSD sample was designated in this SDG.

6. Sample Analysis

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

Soil samples were leached with organic free water at a ratio of 1:1 (w:v).

LAB CHRONICLE
ALCOHOLS BY GC

Client : ENSR
Project : UPGRADEMENT INVESTIGATION, TRONOX
SDG NO. : 06C238
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
M120-0.5R	MED001SB	1	NA	04/04/0614:55	04/04/0614:00	DD04003A	DD04002A	MED001S	Method Blank
M121-0.5R	MED001SL	1	NA	04/04/0615:12	04/04/0614:00	DD04004A	DD04002A	MED001S	Lab Control Sample (LCS)
M118-0.5R	MED001SC	1	NA	04/04/0615:28	04/04/0614:00	DD04005A	DD04002A	MED001S	LCS Duplicate
M117-0.5R	C238-01	1	6.7	04/04/0615:44	04/04/0614:00	DD04006A	DD04002A	MED001S	Field Sample
M116-0.5R	C238-02	1	7.5	04/04/0616:00	04/04/0614:00	DD04007A	DD04002A	MED001S	Field Sample
	C238-03	1	11.9	04/04/0616:16	04/04/0614:00	DD04008A	DD04002A	MED001S	Field Sample
	C238-04	1	7.2	04/04/0616:32	04/04/0614:00	DD04009A	DD04002A	MED001S	Field Sample
	C238-05	1	12.4	04/04/0616:50	04/04/0614:00	DD04010A	DD04002A	MED001S	Field Sample

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
LCSTW	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
TRIP BLANK	C238-06	1	NA	03/27/0616:52	03/27/0616:52	DC27014A	DC27002A	MEC013W	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD M8015
ALCOHOLS BY GC

```
=====  
Client      : ENSR                               Date Collected: 03/24/06  
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/25/06  
Batch No.   : 06C238                            Date Extracted: 04/04/06 14:00  
Sample ID   : M120-0.5R                         Date Analyzed: 04/04/06 15:44  
Lab Samp ID: C238-01                            Dilution Factor: 1  
Lab File ID: DD04006A                           Matrix          : SOIL  
Ext Btch ID: MED001S                            % Moisture      : 6.7  
Calib. Ref.: DD04002A                           Instrument ID   : GCT043  
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
METHANOL	ND	1.1	.54
ETHANOL	ND	1.1	.54

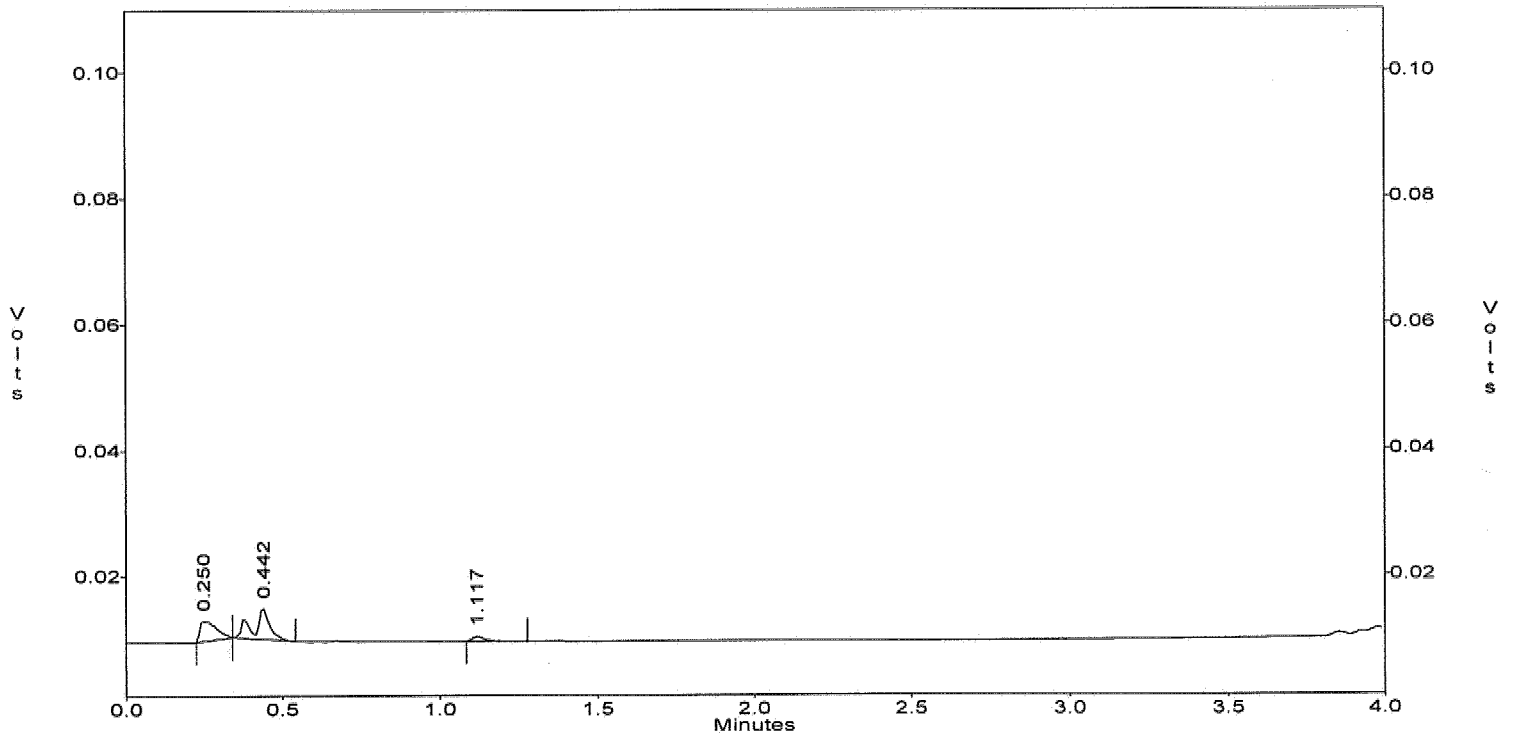
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\Dd04\Dd04.006
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C238-01
Acquired : Apr 04, 2006 15:44:11
Printed : Apr 04, 2006 15:48:12
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

c:\ezchrom\chrom\Dd04\Dd04.006 -- Channel A



METHOD M8015
ALCOHOLS BY GC

```
=====
Client      : ENSR                               Date Collected: 03/24/06
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/25/06
Batch No.   : 06C238                             Date Extracted: 04/04/06 14:00
Sample ID   : M121-0.5R                          Date Analyzed: 04/04/06 16:00
Lab Samp ID: C238-02                              Dilution Factor: 1
Lab File ID: DD04007A                            Matrix          : SOIL
Ext Btch ID: MED001S                             % Moisture      : 7.5
Calib. Ref.: DD04002A                           Instrument ID   : GCT043
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
METHANOL	ND	1.1	.54
ETHANOL	ND	1.1	.54

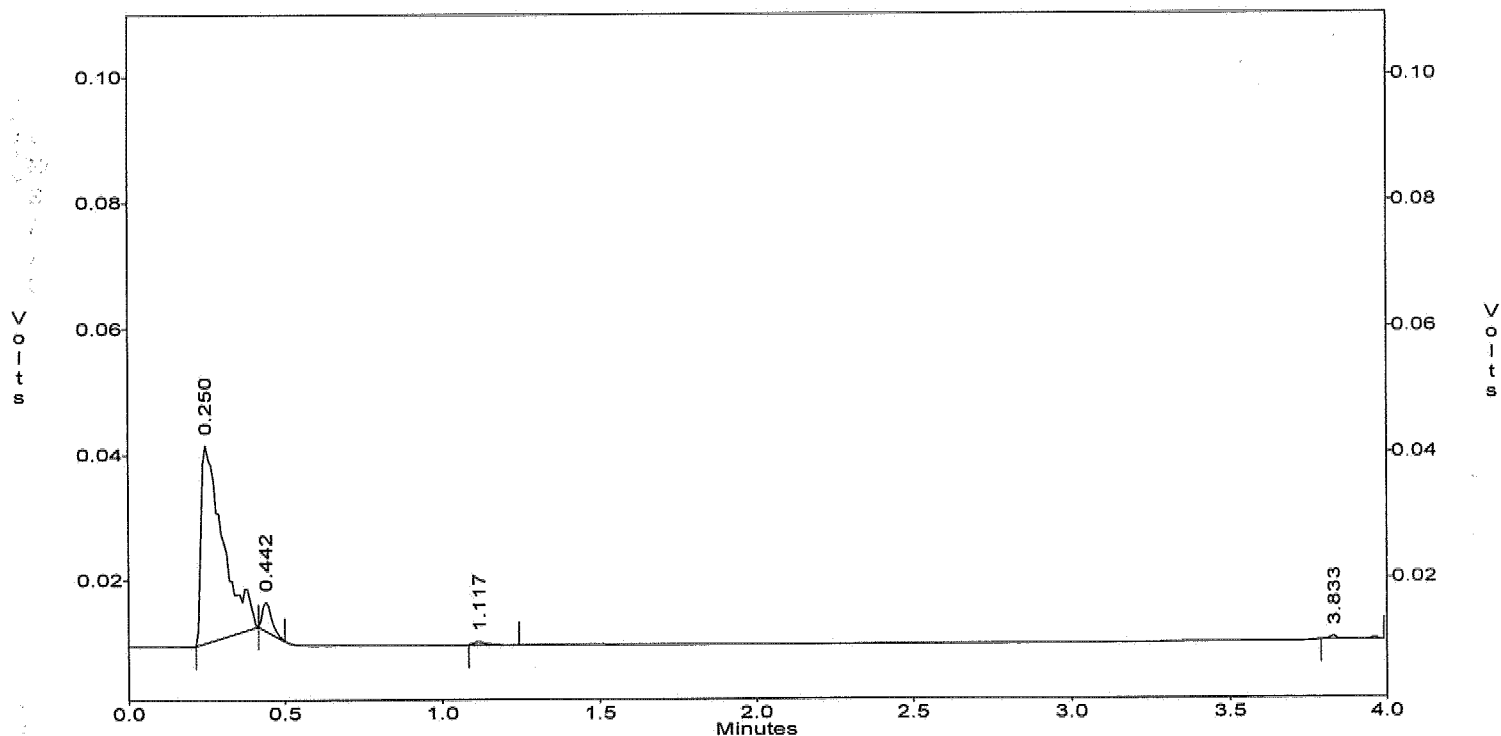
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\Dd04\Dd04.007
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C238-02
Acquired : Apr 04, 2006 16:00:54
Printed : Apr 04, 2006 16:04:54
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

c:\ezchrom\chrom\Dd04\Dd04.007 -- Channel A



METHOD M8015
ALCOHOLS BY GC

=====
Client : ENSR Date Collected: 03/24/06
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/25/06
Batch No. : 06C238 Date Extracted: 04/04/06 14:00
Sample ID: M118-0.5R Date Analyzed: 04/04/06 16:16
Lab Samp ID: C238-03 Dilution Factor: 1
Lab File ID: DD04008A Matrix : SOIL
Ext Btch ID: MED001S % Moisture : 11.9
Calib. Ref.: DD04002A Instrument ID : GCT043
=====

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
METHANOL	ND	1.1	.57
ETHANOL	ND	1.1	.57

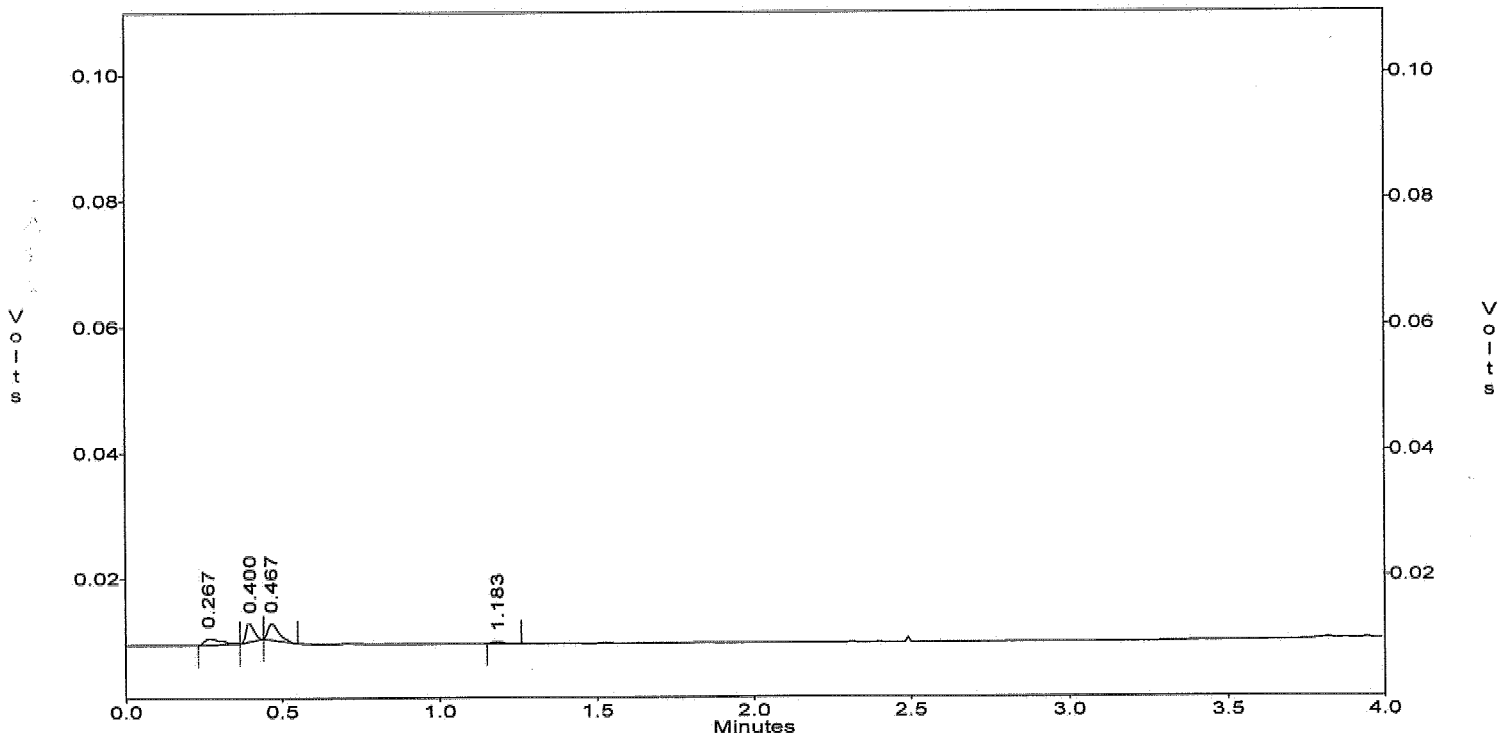
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\Dd04\Dd04.008
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C238-03
Acquired : Apr 04, 2006 16:16:51
Printed : Apr 04, 2006 16:20:53
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	0.975	0	0.0	0.0
4	ETHANOL	1.183	648	16319.3	0.0

c:\ezchrom\chrom\Dd04\Dd04.008 -- Channel A



METHOD M8015
ALCOHOLS BY GC

```
=====  
Client      : ENSR                               Date Collected: 03/24/06  
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/25/06  
Batch No.   : 06C238                           Date Extracted: 04/04/06 14:00  
Sample ID: M117-0.5R                           Date Analyzed: 04/04/06 16:32  
Lab Samp ID: C238-04                           Dilution Factor: 1  
Lab File ID: DD04009A                         Matrix          : SOIL  
Ext Btch ID: MED001S                          % Moisture     : 7.2  
Calib. Ref.: DD04002A                        Instrument ID  : GCT043  
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
METHANOL	ND	1.1	.54
ETHANOL	ND	1.1	.54

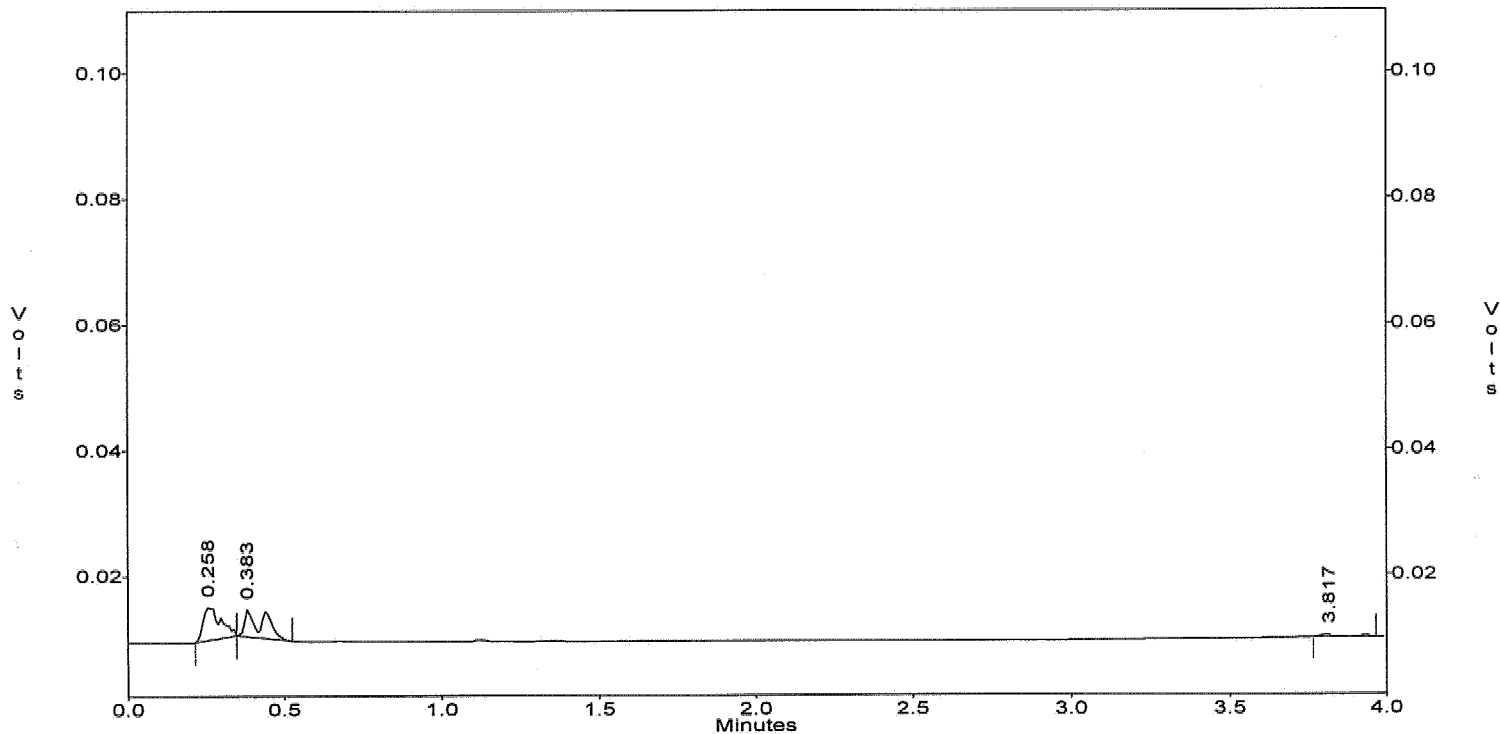
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\Dd04\Dd04.009
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C238-04
Acquired : Apr 04, 2006 16:32:53
Printed : Apr 04, 2006 16:36:54
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	0.975	0	0.0	0.0
--	ETHANOL	1.167	0	0.0	0.0

c:\ezchrom\chrom\Dd04\Dd04.009 -- Channel A



METHOD M8015
ALCOHOLS BY GC

=====
Client : ENSR Date Collected: 03/24/06
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/25/06
Batch No. : 06C238 Date Extracted: 04/04/06 14:00
Sample ID: M116-0.5R Date Analyzed: 04/04/06 16:50
Lab Samp ID: C238-05 Dilution Factor: 1
Lab File ID: DD04010A Matrix : SOIL
Ext Btch ID: MED001S % Moisture : 12.4
Calib. Ref.: DD04002A Instrument ID : GCT043
=====

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
METHANOL	ND	1.1	.57
ETHANOL	ND	1.1	.57

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

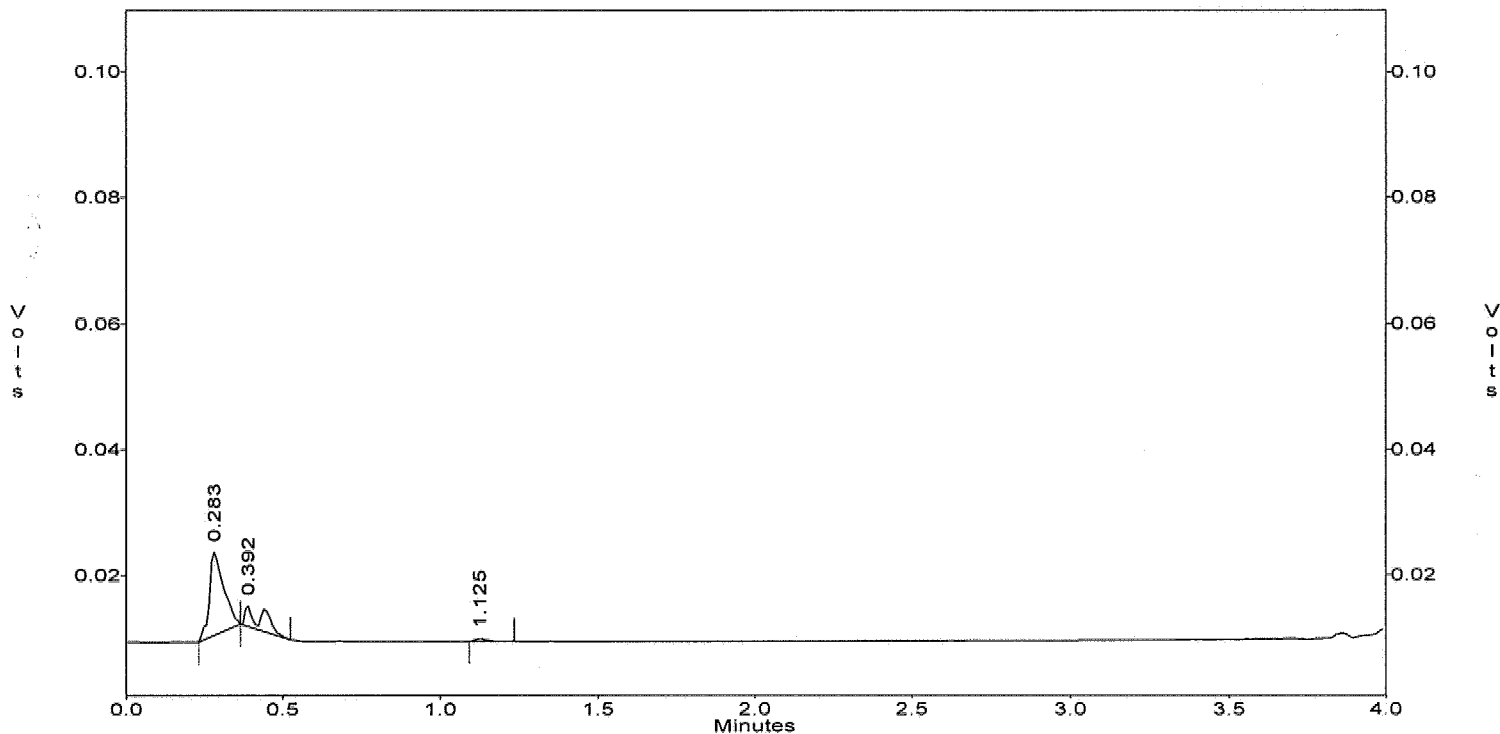
File : c:\ezchrom\chrom\Dd04\Dd04.010
 Method : c:\ezchrom\methods\Me43c06.met
 Sample ID : 06C238-05
 Acquired : Apr 04, 2006 16:50:05
 Printed : Apr 04, 2006 16:54:07
 User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
--	METHANOL	0.975	0	0.0	0.0
--	ETHANOL	1.167	0	0.0	0.0

S
A
P
t

c:\ezchrom\chrom\Dd04\Dd04.010 -- Channel A



METHOD M8015
ALCOHOLS BY GC

=====
Client : ENSR Date Collected: 03/24/06
Project : UPGRADIENT INVESTIGATION, TRONOX Date Received: 03/25/06
Batch No. : 06C238 Date Extracted: 03/27/06 16:52
Sample ID: TRIP BLANK Date Analyzed: 03/27/06 16:52
Lab Samp ID: C238-06 Dilution Factor: 1
Lab File ID: DC27014A Matrix : WATER
Ext Btch ID: MEC013W % Moisture : NA
Calib. Ref.: DC27002A Instrument ID : GCT043
=====

PARAMETERS	RESULTS	RL	MDL
-----	(mg/L)	(mg/L)	(mg/L)
-----	-----	-----	-----
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

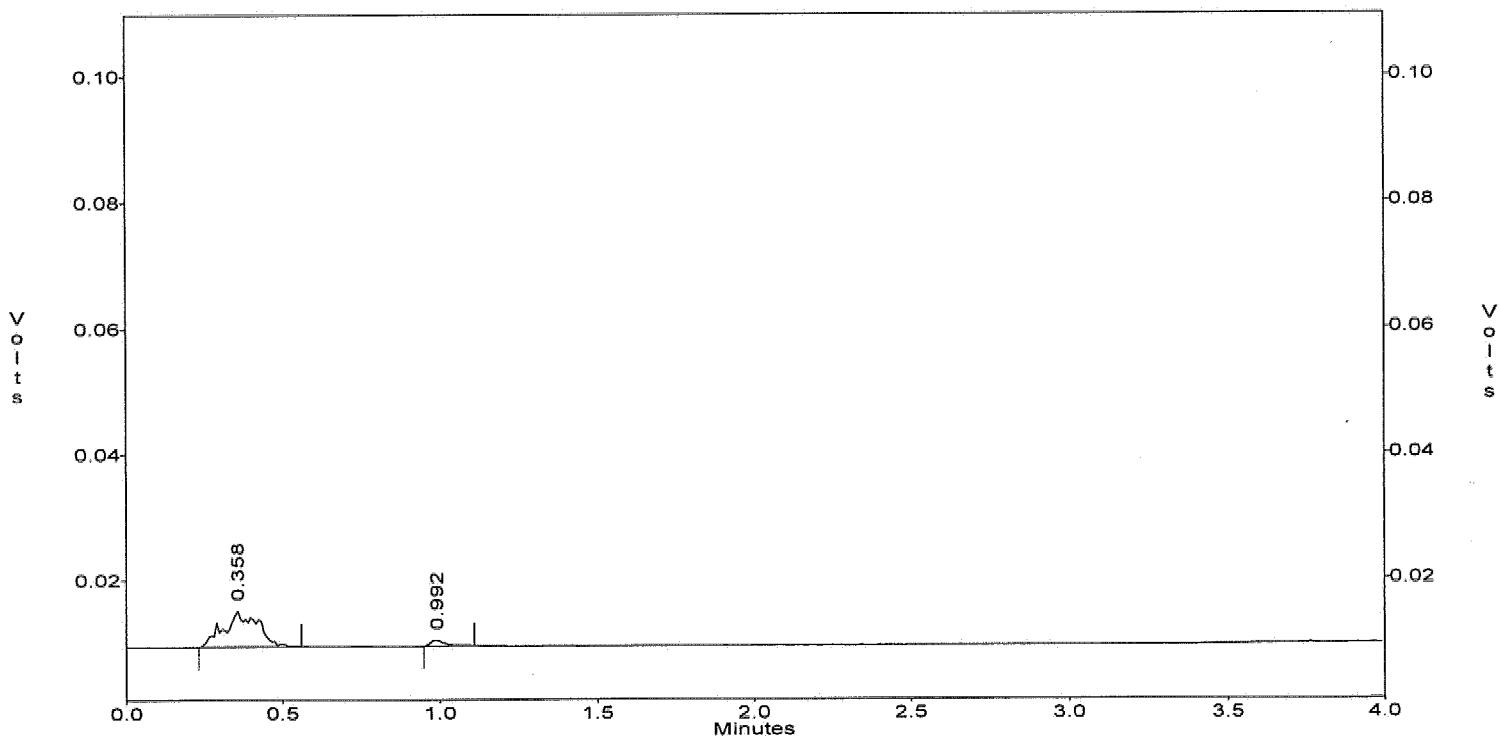
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\DC27\Dc27.014
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : 06C238-06
Acquired : Mar 27, 2006 16:52:37
Printed : Mar 27, 2006 16:56:39
User : LUCY

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	0.992	3062	9735.5	0.3
--	ETHANOL	1.192	0	0.0	0.0

c:\ezchrom\chrom\DC27\Dc27.014 -- 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.   : 06C238                             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.: 06C238
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

METHOD M8015
ALCOHOLS BY GC

```
=====  
Client      : ENSR                      Date Collected: NA  
Project     : UPGRADIENT INVESTIGATION, TRONOX Date Received: 04/04/06  
Batch No.   : 06C238                   Date Extracted: 04/04/06 14:00  
Sample ID   : MBLK1S                   Date Analyzed: 04/04/06 14:55  
Lab Samp ID: MED001SB                  Dilution Factor: 1  
Lab File ID: DD04003A                  Matrix          : SOIL  
Ext Btch ID: MED001S                   % Moisture      : NA  
Calib. Ref.: DD04002A                  Instrument ID   : GCT043  
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
METHANOL	ND	1	.5
ETHANOL	ND	1	.5

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: ENSR
PROJECT: UPGRADIENT INVESTIGATION, TRONOX
BATCH NO.: 06C238
METHOD: METHOD M8015

=====

MATRIX: SOIL % MOISTURE: NA
DILUTION FACTOR: 1 1 1
SAMPLE ID: MBLK1S
LAB SAMP ID: MED001SB MED001SL MED001SC
LAB FILE ID: DD04003A DD04004A DD04005A
DATE EXTRACTED: 04/04/0614:00 04/04/0614:00 04/04/0614:00 DATE COLLECTED: NA
DATE ANALYZED: 04/04/0614:55 04/04/0615:12 04/04/0615:28 DATE RECEIVED: 04/04/06
PREP. BATCH: MED001S MED001S MED001S
CALIB. REF: DD04002A DD04002A DD04002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Methanol	ND	10	8.8	88	10	8.45	85	4	60-130	30
Ethanol	ND	10	8.78	88	10	8.8	88	0	60-130	30

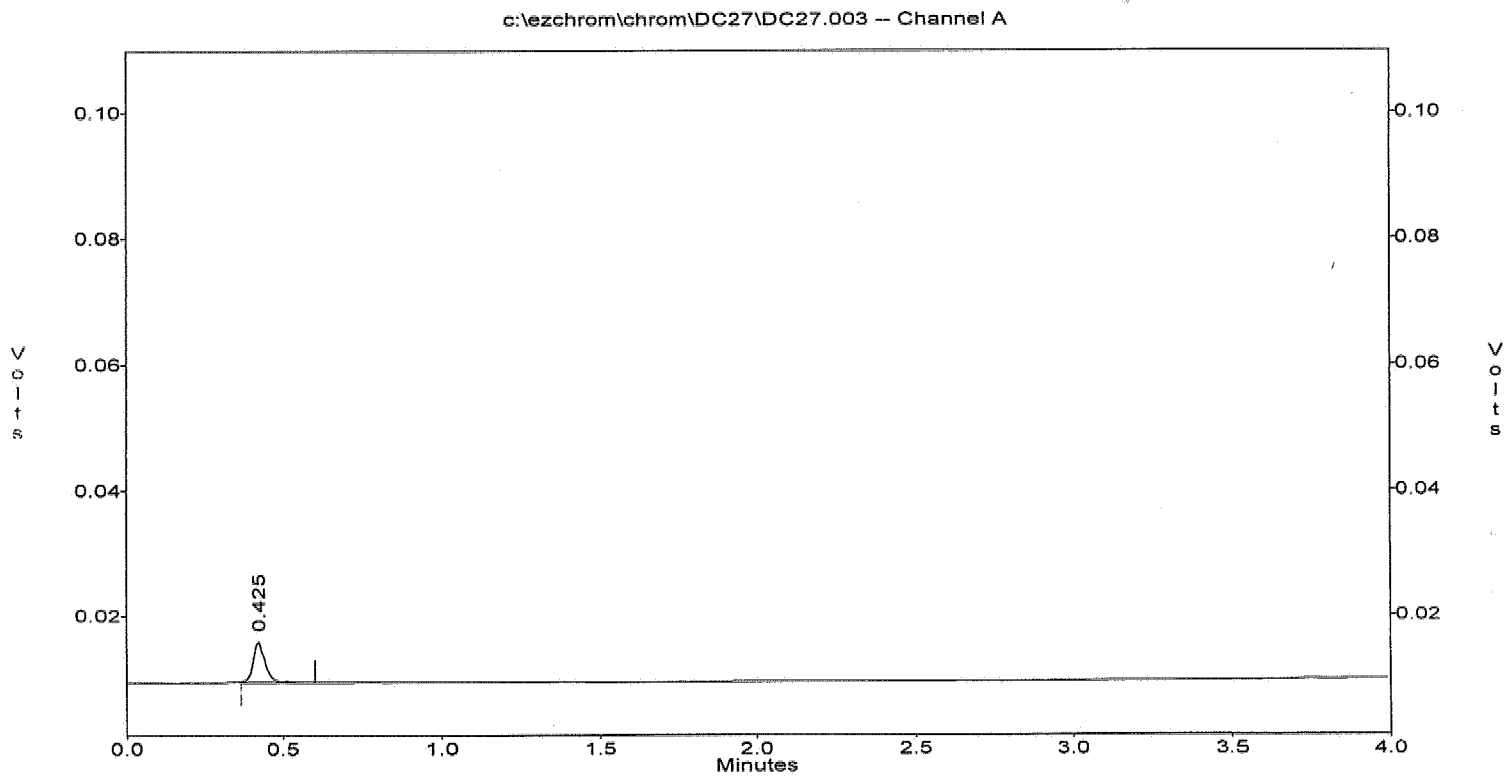
QC DATA

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



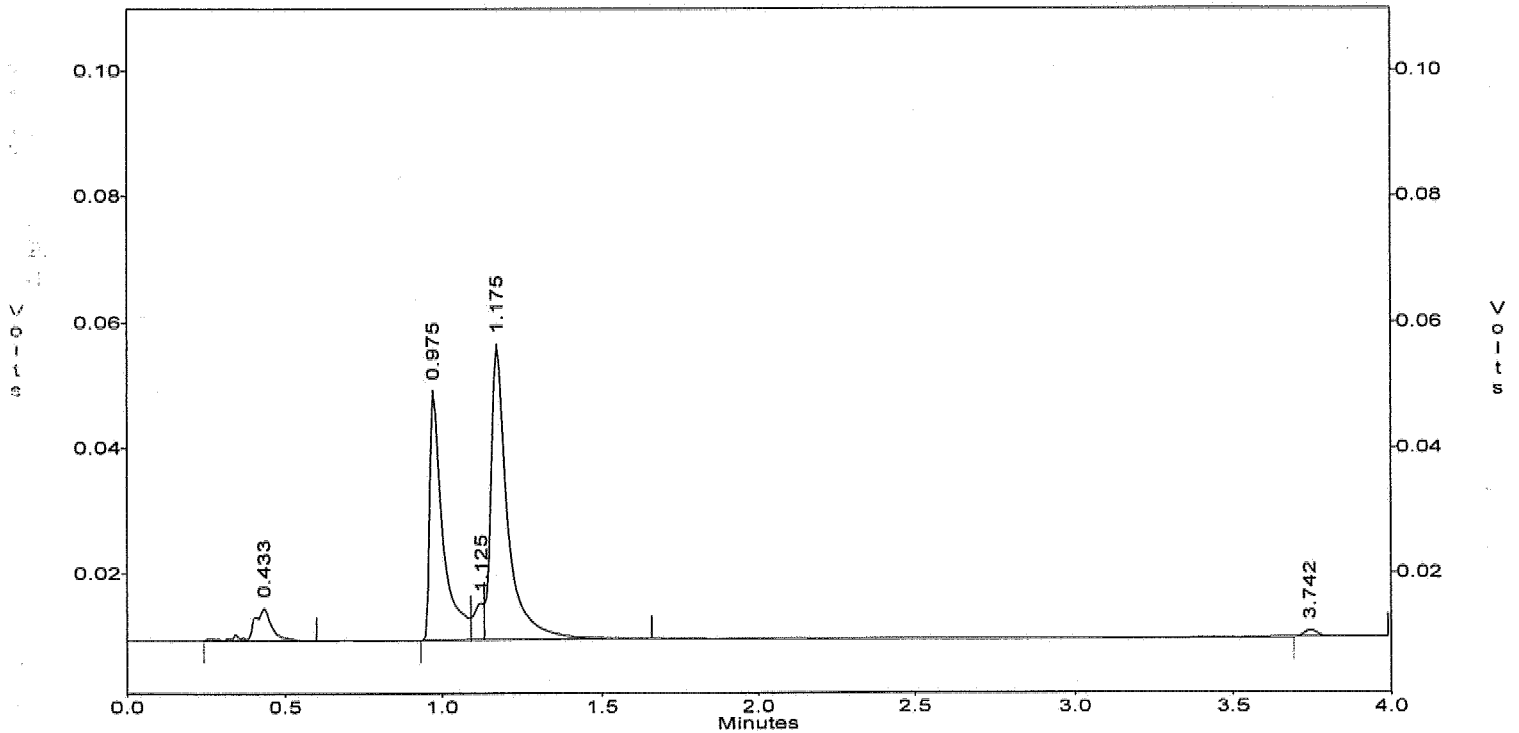
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

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

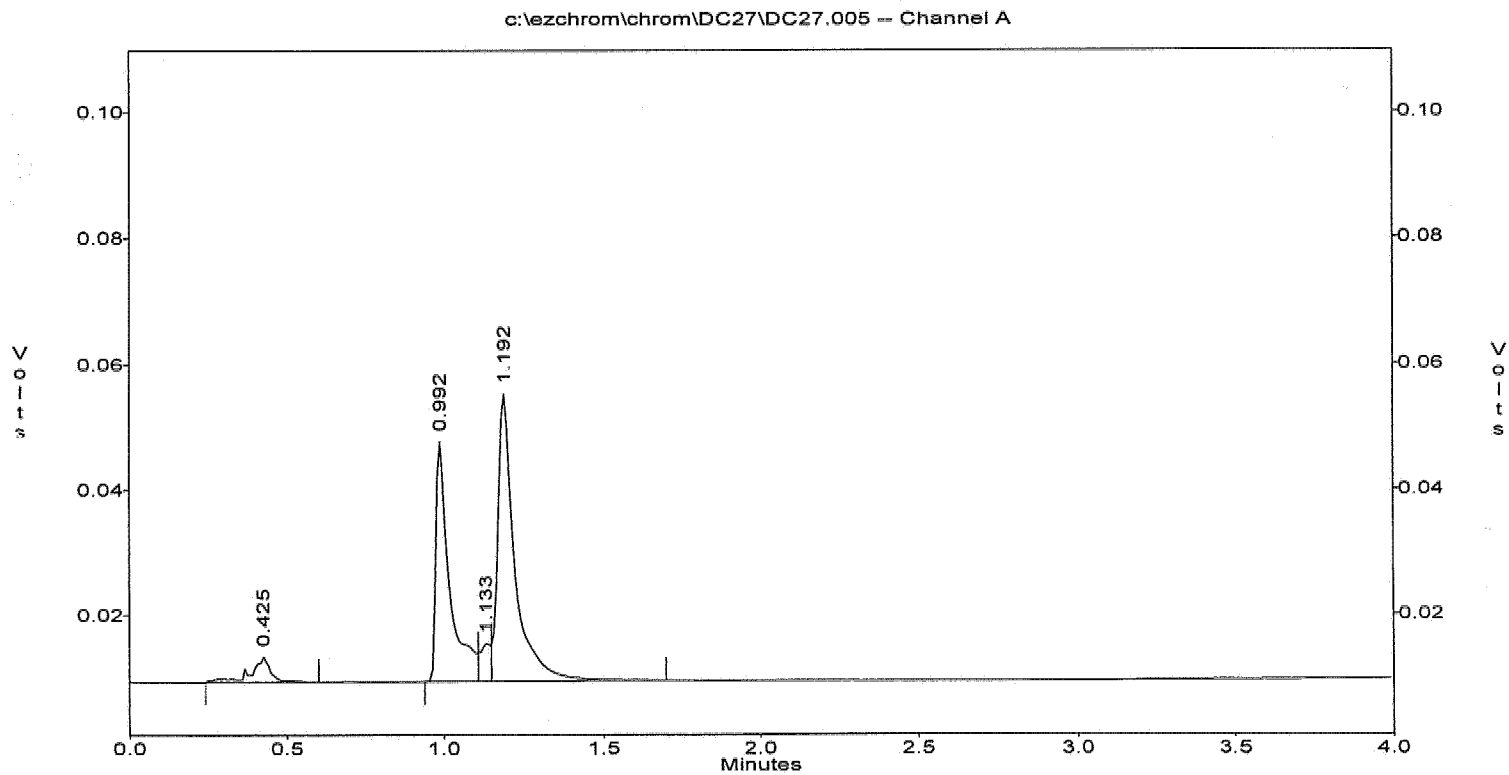


EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

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



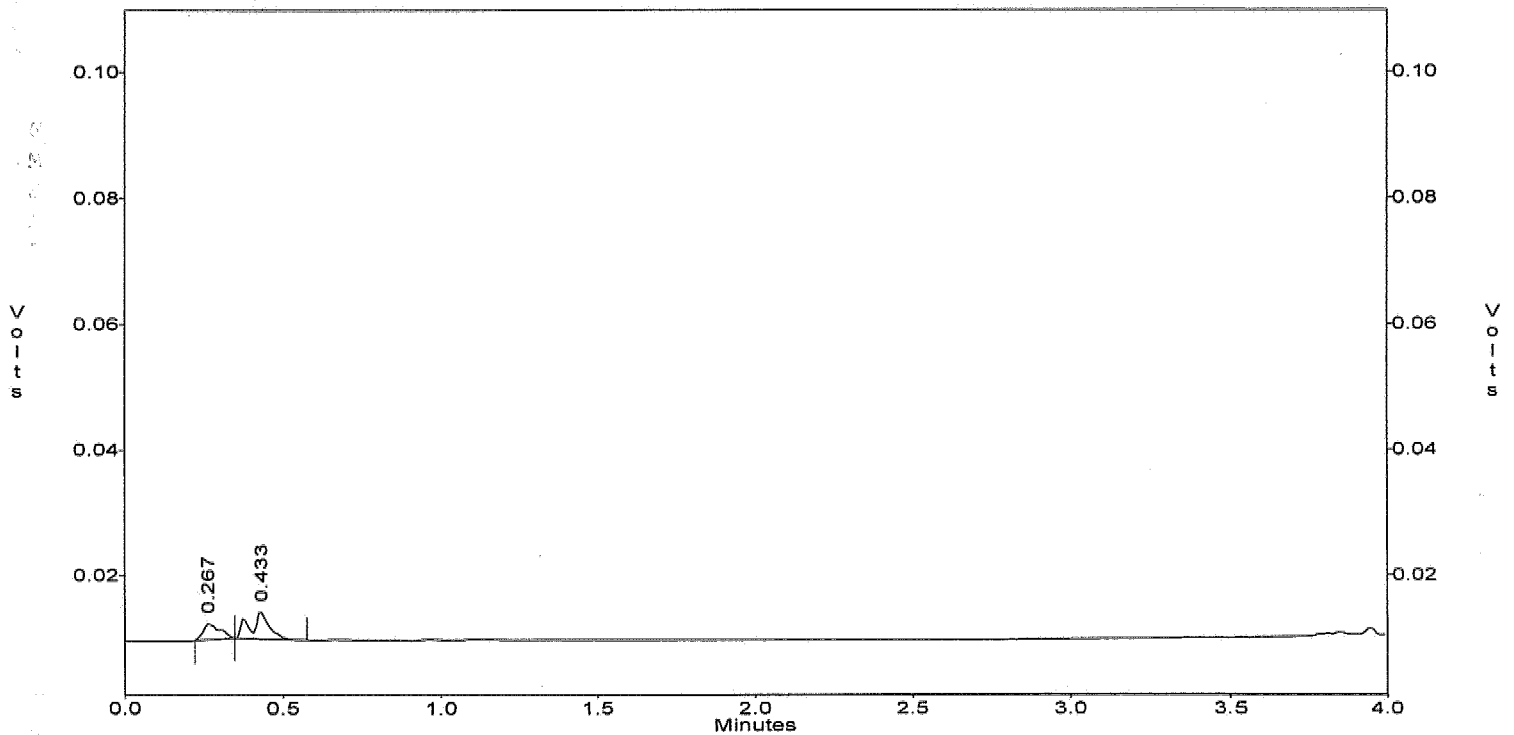
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\Dd04\DD04.003
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MED001SB
Acquired : Apr 04, 2006 14:55:02
Printed : Apr 04, 2006 15:05:19
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

c:\ezchrom\chrom\Dd04\DD04.003 -- Channel A



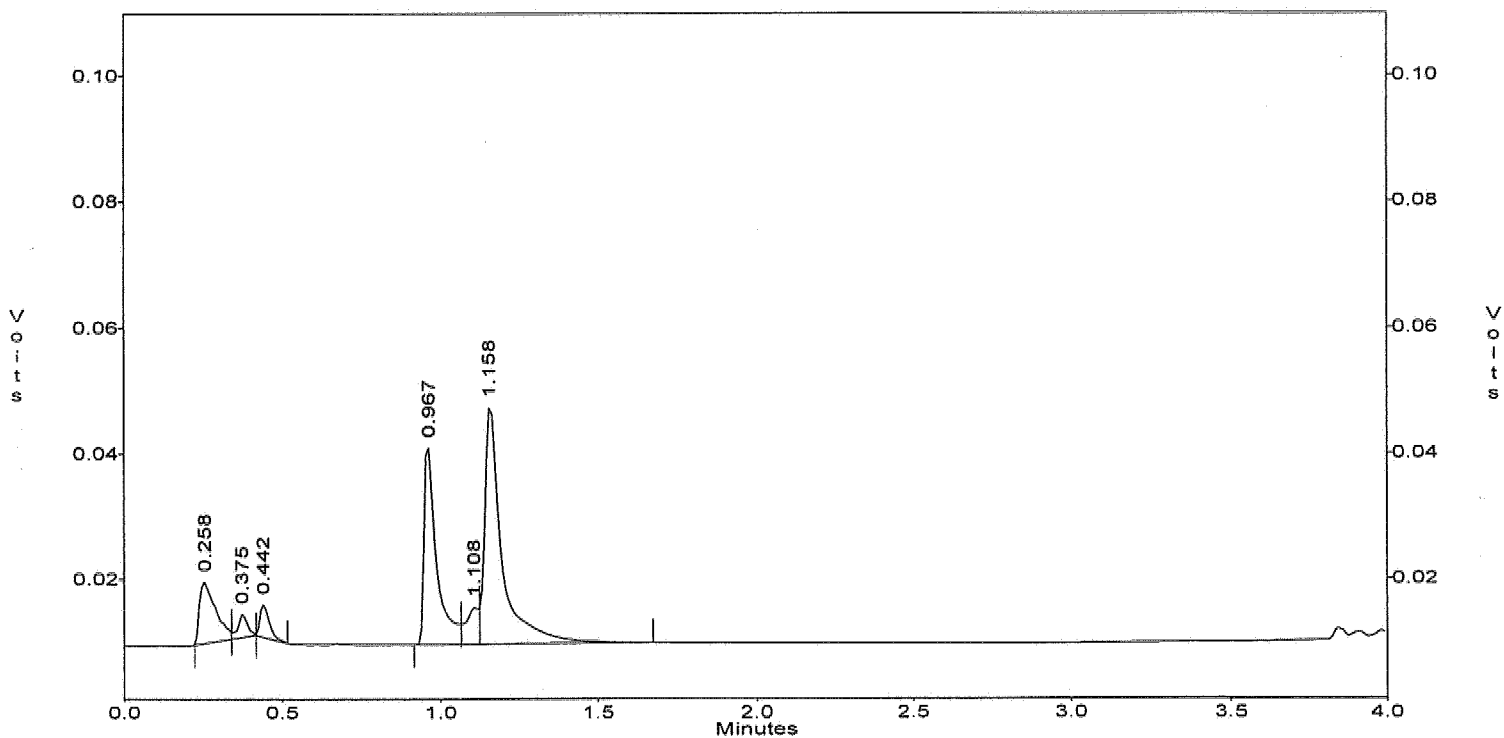
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\dd04\dd04.004
Method : c:\ezchrom\methods\me43c06.met
Sample ID : MED001SL
Acquired : Apr 04, 2006 15:12:28
Printed : Apr 04, 2006 15:20:35
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
4	METHANOL	0.967	85685	9735.5	8.8
6	ETHANOL	1.158	143290	16319.3	8.8

c:\ezchrom\chrom\dd04\dd04.004 -- Channel A



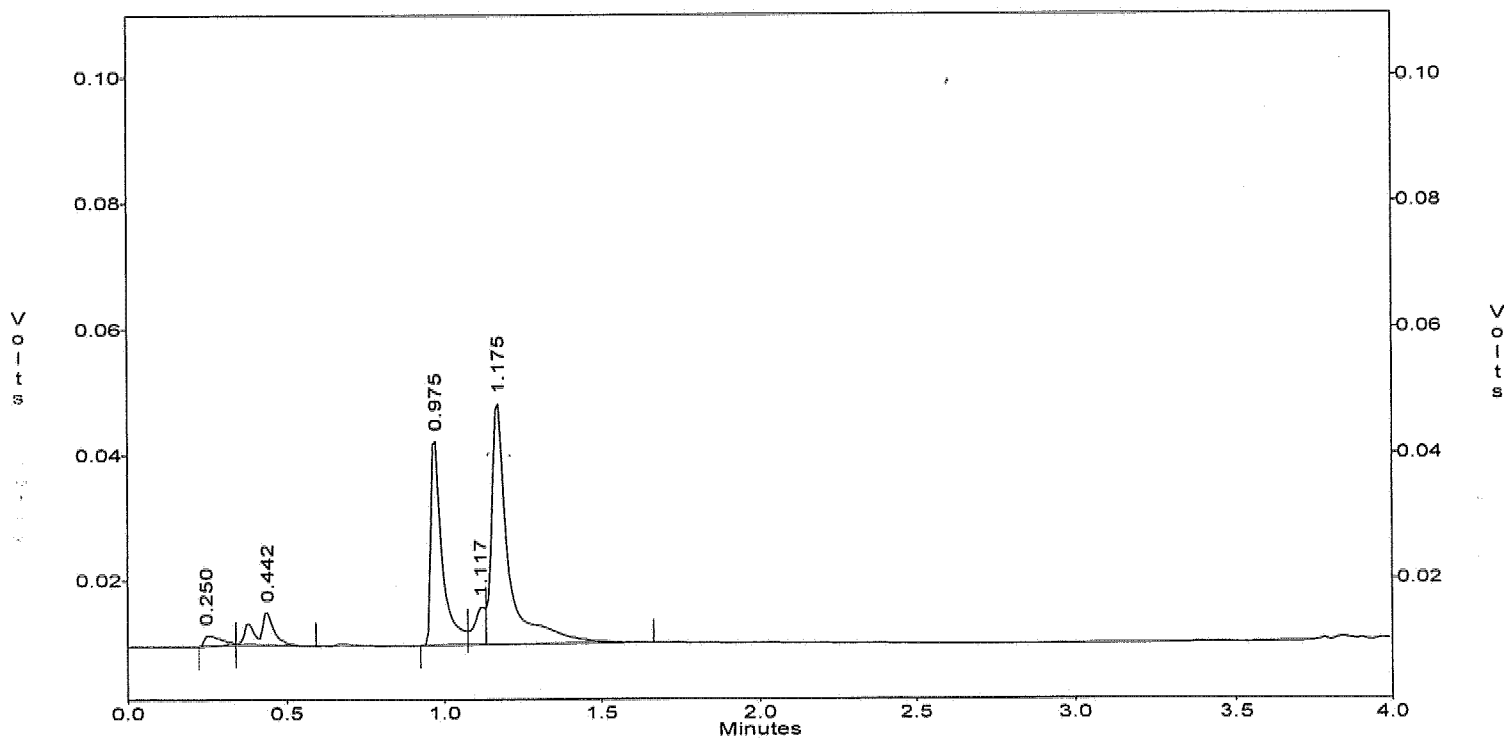
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\Dd04\Dd04.005
Method : c:\ezchrom\methods\Me43c06.met
Sample ID : MED001SC
Acquired : Apr 04, 2006 15:28:22
Printed : Apr 04, 2006 15:32:23
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	0.975	82285	9735.5	8.5
5	ETHANOL	1.175	143637	16319.3	8.8

c:\ezchrom\chrom\Dd04\Dd04.005 -- 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

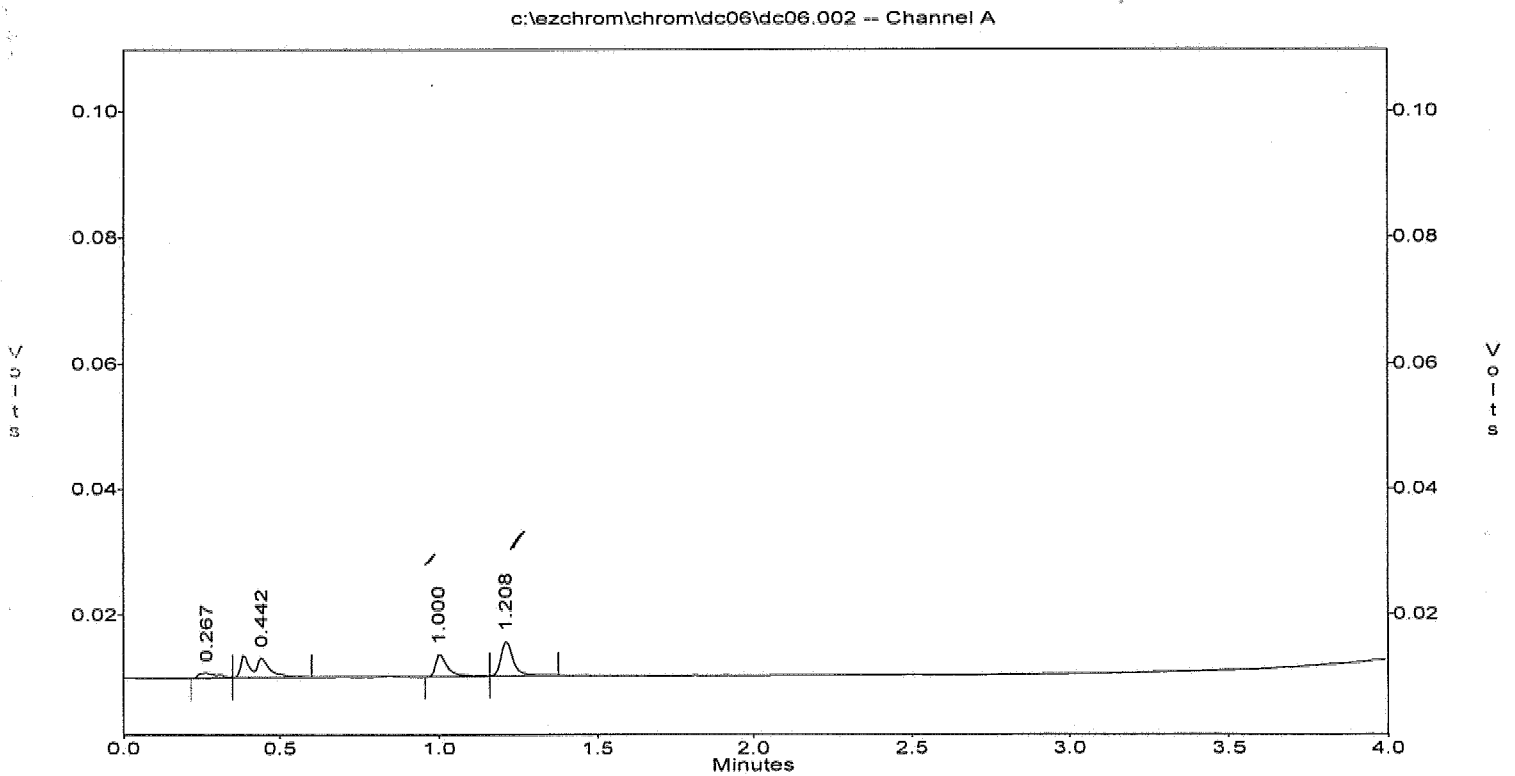
RA
03/08/06

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



As
03/08/06
5030

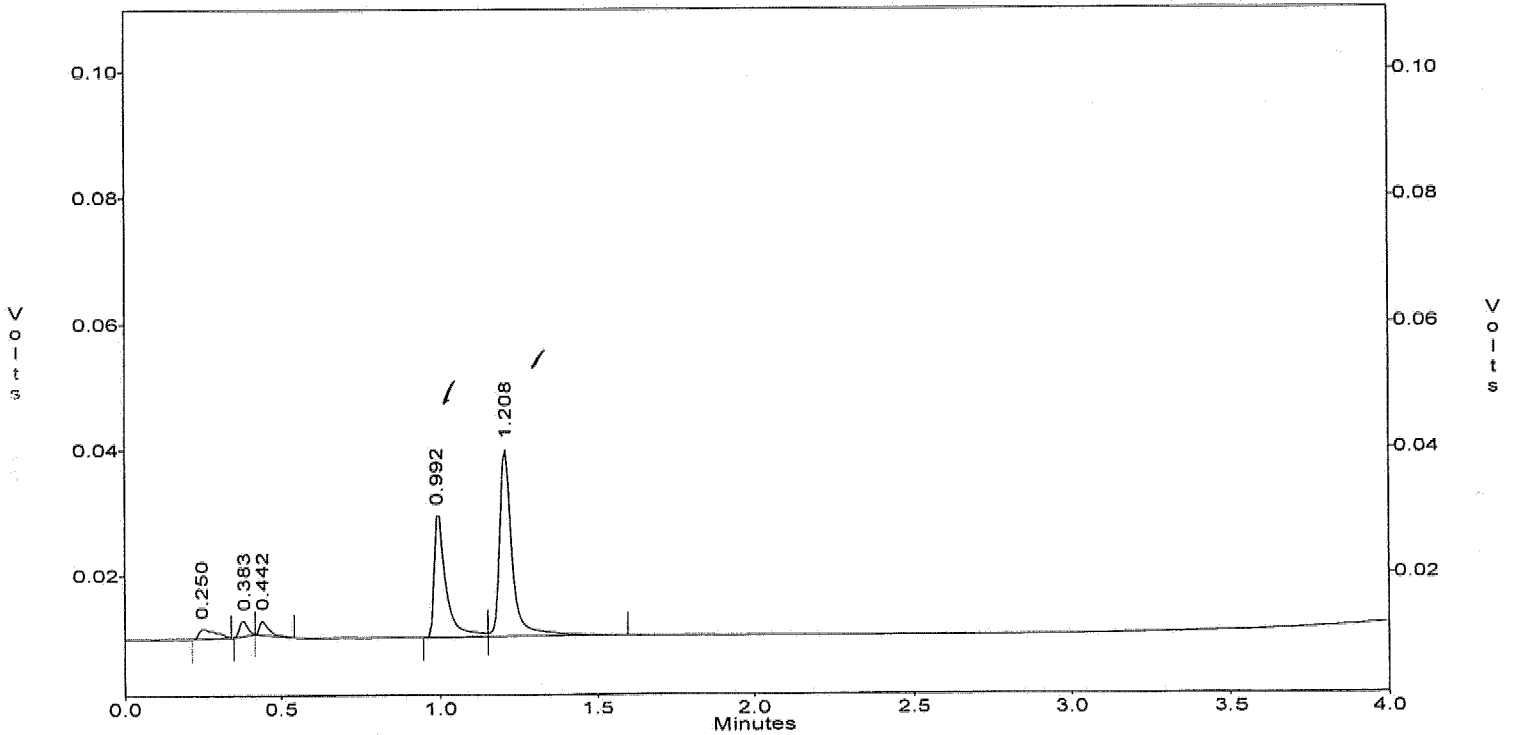
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

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



MA
03/08/06
5031

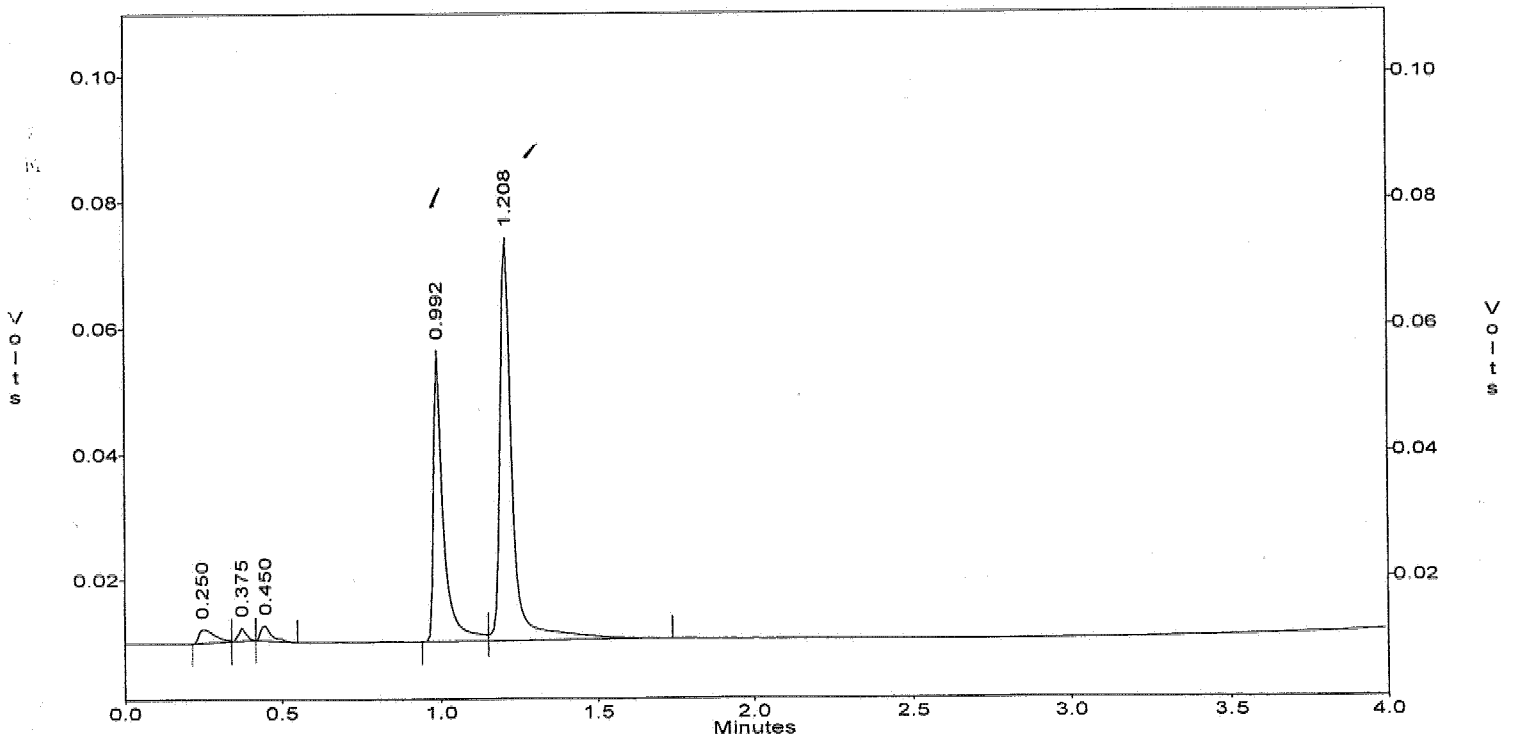
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

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

5032

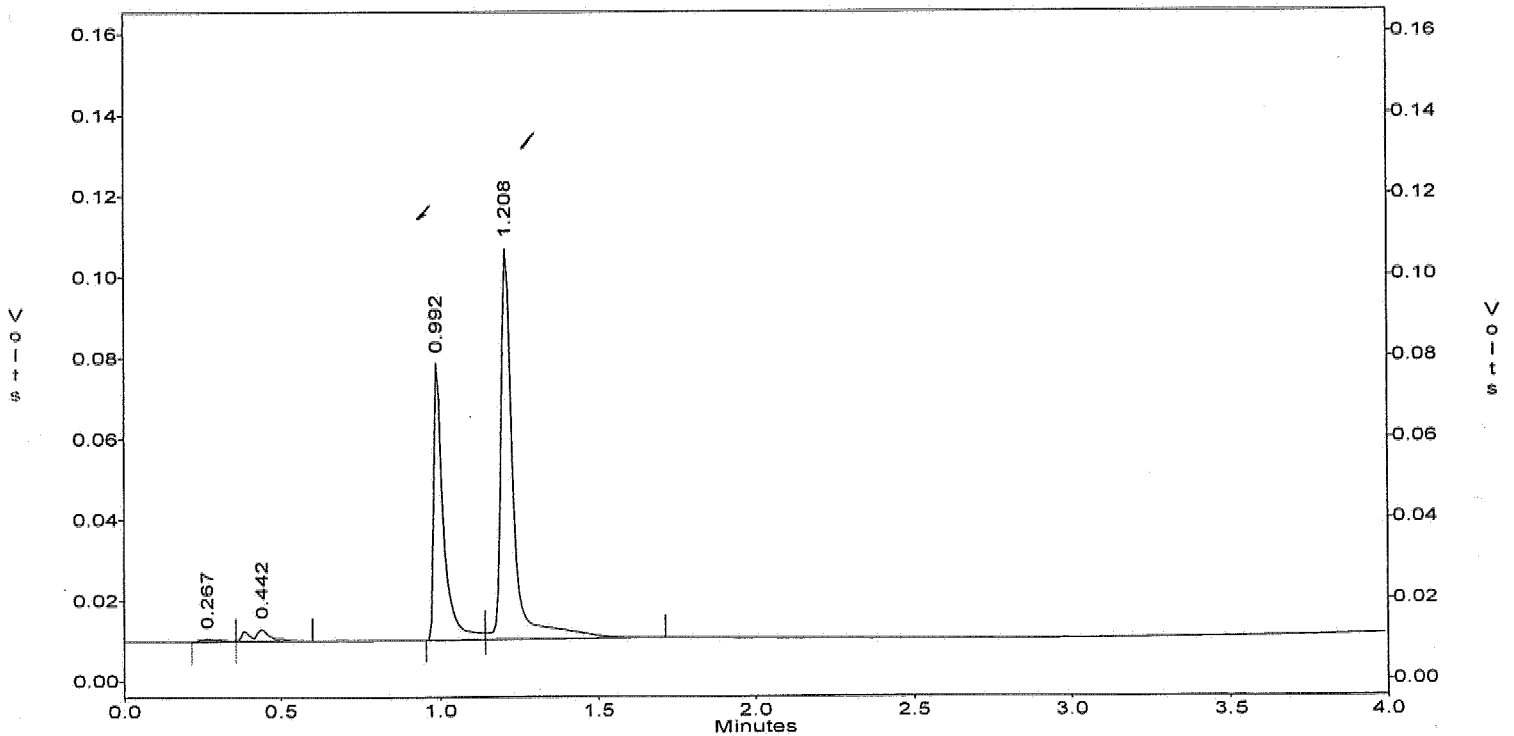
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

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
5033

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

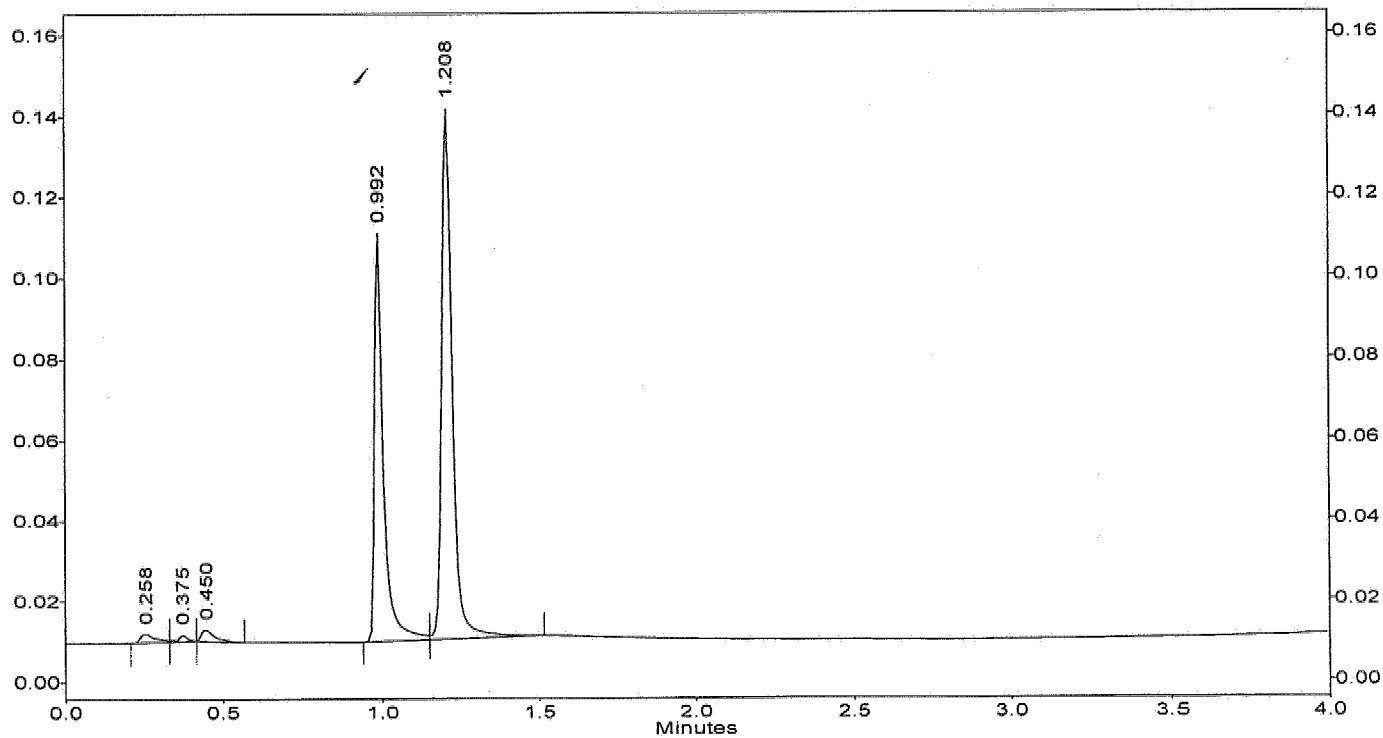
File : c:\ezchrom\chrom\dc06\dc06.006
Method : c:\ezchrom\methods\me43c06.met
Sample ID : ME43C0605 20PPM
Acquired : Mar 06, 2006 14:47:41
Printed : Mar 06, 2006 15:11:33
User : XUYEN

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

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SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX
 Instrument ID : GCTO43
 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

dx
03/08/06

5036

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

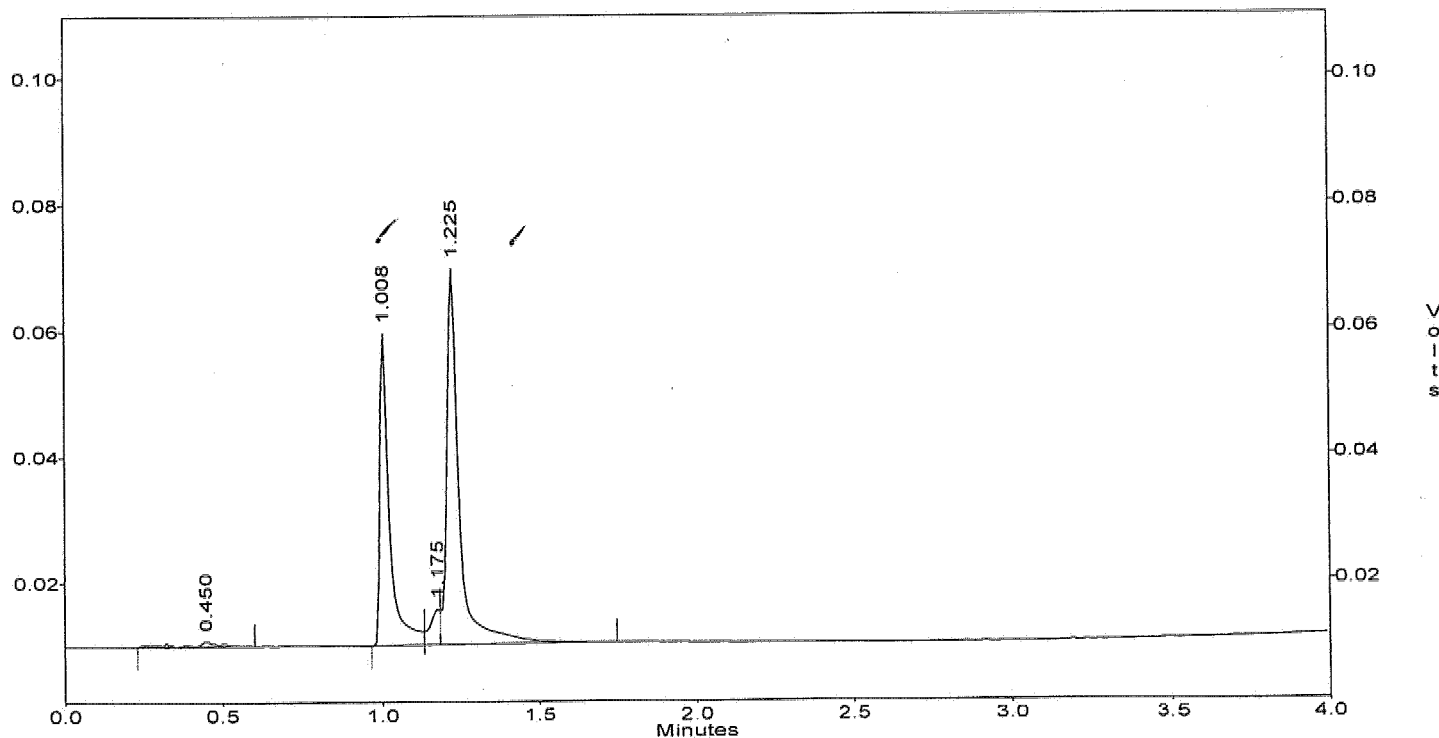
File : c:\ezchrom\chrom\dc06\dc06.007
Method : c:\ezchrom\methods\me43c06.met
Sample ID : IME43C0601 10PPM
Acquired : Mar 06, 2006 15:04:40
Printed : Mar 06, 2006 15:11:45
User : XUYEN

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

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c:\ezchrom\chrom\dc06\dc06.007 -- Channel A



At
03/08/06

5037

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

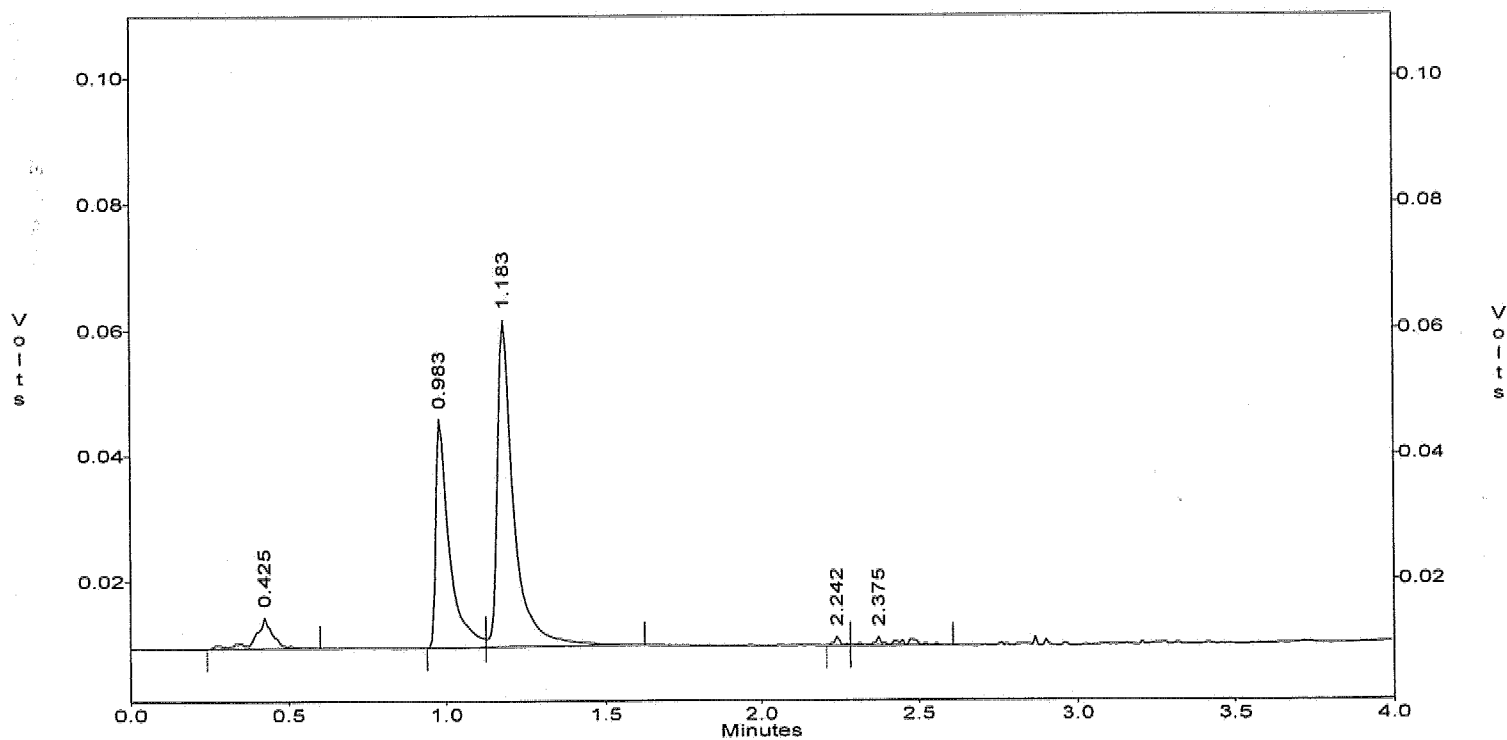
EPA 8015 by GC/FID
 EMAX Analytical Laboratories, Inc.

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

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

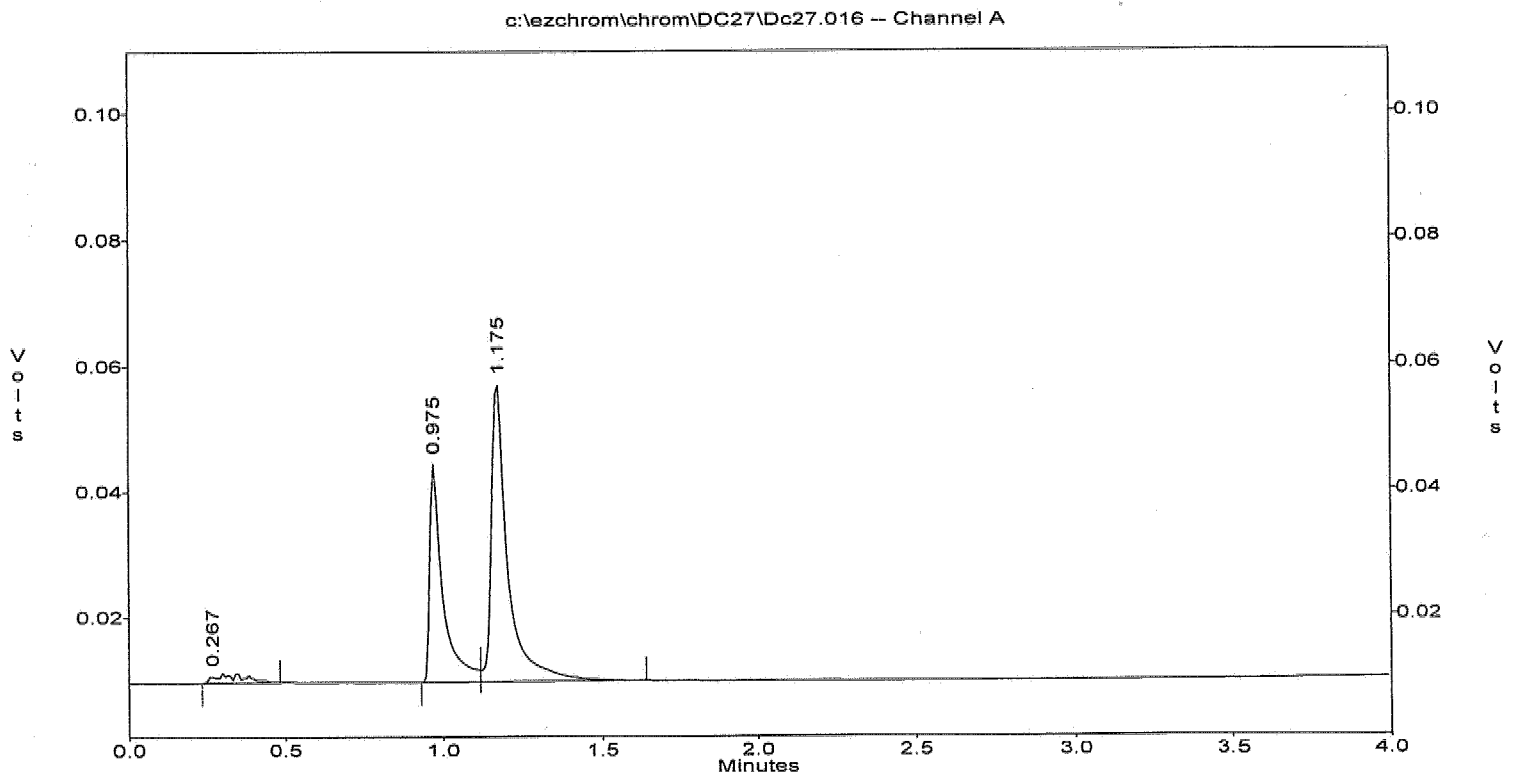
COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
METHANOL	0.975	0.949	1.001	10.0	9735.5	96317	9.89	-1		15
ETHANOL	1.175	1.146	1.204	10.0	16319.3	169634	10.40	4		15

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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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: DD04002A 04/04/2006 14:34
 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	105247	10.81	8		15
ETHANOL	1.167	1.138	1.196	10.0	16319.3	173754	10.65	6		15

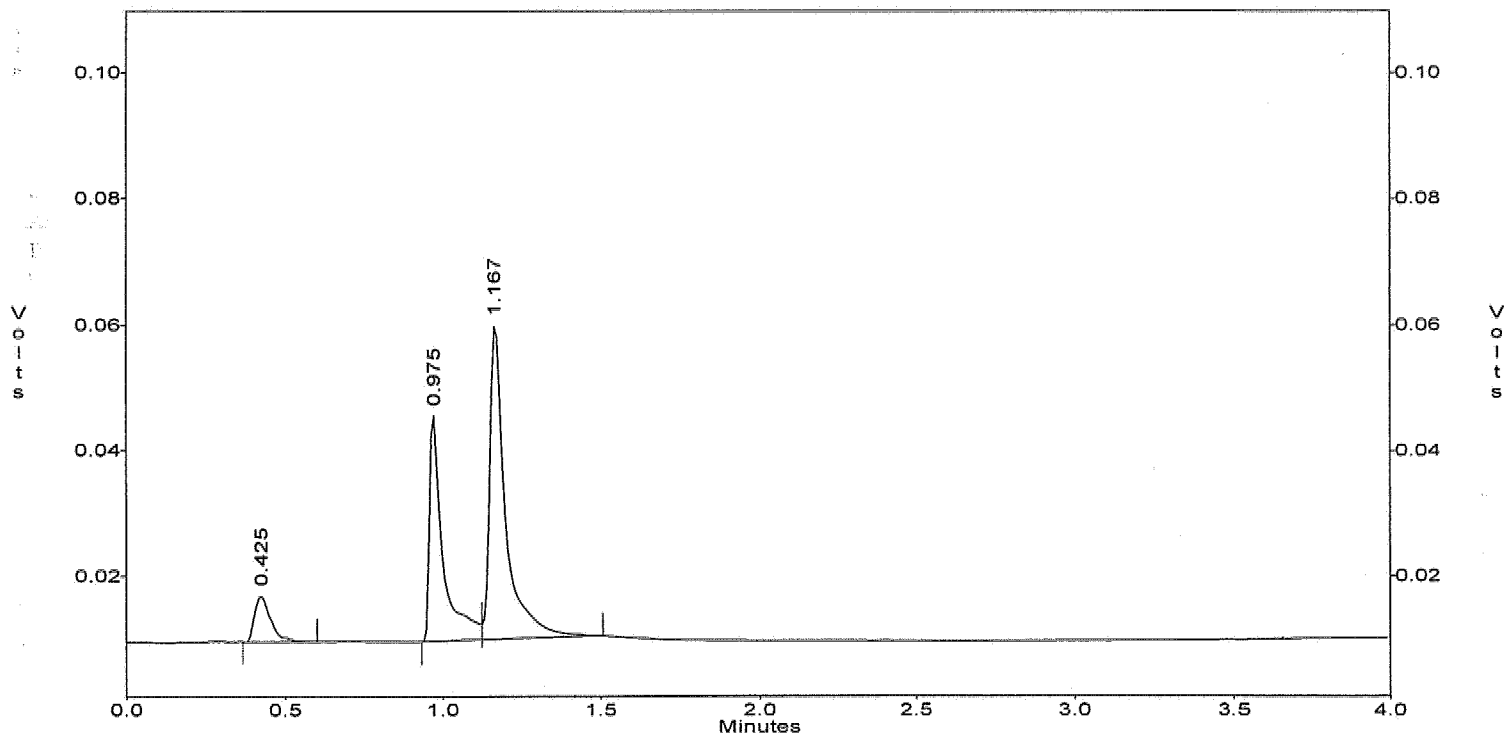
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\Dd04\DD04.002
Method : c:\ezchrom\methods\me43c06.met
Sample ID : CME43C06061 10PPM
Acquired : Apr 04, 2006 14:34:46
Printed : Apr 04, 2006 17:55:16
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
2	METHANOL	0.975	105247	9735.5	10.8
3	ETHANOL	1.167	173754	16319.3	10.6

c:\ezchrom\chrom\Dd04\DD04.002 -- 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: DD04014A 04/04/2006 17:58
 CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW		TRUE CONC	AVERAGE CF	RESULT		%D	QL	%D LIMITS
		FROM	TO			AREA	CONC			
METHANOL	0.967	0.941	0.993	10.0	9735.5	89891	9.23	-8		15
ETHANOL	1.158	1.129	1.187	10.0	16319.3	168254	10.31	3		15

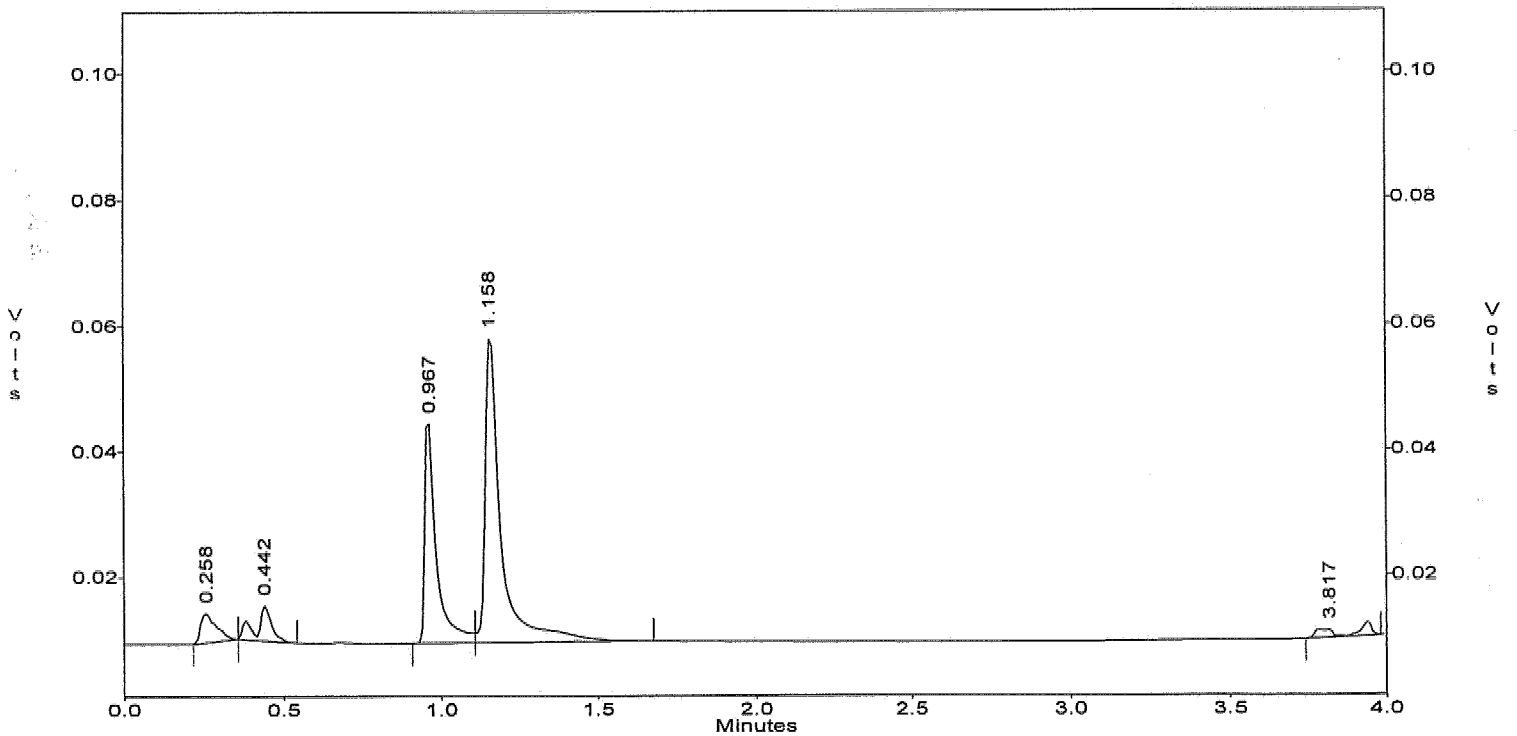
EPA 8015 by GC/FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\Dd04\DD04.014
Method : c:\ezchrom\methods\me43c06.met
Sample ID : CME43C06062 10PPM
Acquired : Apr 04, 2006 17:58:42
Printed : Apr 04, 2006 18:04:59
User : XUYEN

Channel A Results

#	Peak Name	Ret. Time (min)	Area	Ave. CF	ESTD Conc. (ppm)
3	METHANOL	0.967	89891	9735.5	9.2
4	ETHANOL	1.158	168254	16319.3	10.3

c:\ezchrom\chrom\Dd04\DD04.014 -- Channel A



ANALYTICAL LOGS

ANALYSIS RUN LOG FOR TPH

SOP □ EMAX-M8015D Revision No. 3 □ EMAX-LJUFTE 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	1843C012																																																										
	2	ME43C0601				10ppm XP 3/6/06																																																						
	3	2				5																																																						
	4	3				10																																																						
	5	4				15																																																						
	6	5				20																																																						
	7	ME43C0601				10 ↓																																																						
MEC002u	8	MEC002C0B	1	✓																																																								
	9	L																																																										
	10	C																																																										
	11	MOLVER-01				1ppm																																																						
	12	02				0.5ppm																																																						
	13	06C032-04																																																										
	14	04D																																																										
	15	ME43C06012				Bad inj.																																																						
	16	NO Injection																																																										
	17	ME43C06012				10ppm																																																						
ANALYTICAL BATCH DC06007																																																												
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ANALYSIS RUN LOG FOR TPH

SOP □ EMAX-M8015D Revision No. 3 □ EMAX-LUFTE Revision No. 3

Book # A43-012

Starting Date: 03/27/06 Time: 12:46 Ending Date: 03/27/06 Time: 17:33

Preparative Batch	Data File Name	Lab Sample ID	Matrix		Notes	Instrument No:	43
			S	W			
	DC27.001	IB43C057				INITIAL CALIBRATION REFERENCE	
	.002	CMF43C06057					
EMC013W	.003	EMC013WB					
	.004	L					
	.005	C					
	.006	66C222-01					
	.007	-014		7			
	.008	-015					
	.009	-02		15	MS 3/27/06		
	.010	-03					
	.011	-04		22	Adjust PH ~ 7		
	.012	66C239-01		6			
	.013	↓ -02		22	Adjust PH ~ 7		
	.014	06C238-06		27			
	.015	CMF43C06058					
	↓ .016	CMF43C06058					
ANALYTICAL BATCH DC27002							

INITIAL CALIBRATION REFERENCE		ID	Date
Diesel			
Motor oil			
JP 5			
Alcohols		ME43C06	03/26/06

Standards		
Name	ID	Conc. (mg/L)
CH ₂ Cl ₂		
DCC	SS3C-07-10-2	100
LCS	SS3C-07-10-3	100
H ₂ O	organic free	NA
NaOH	SW7A-06-255	50% ₂
Mslmad	SS3C-07-14-2	1000

Electronic Data Archival

Location

Date

□ EZC_2_Diesel

□

Comments: ~~MS~~ Prep next 10x > 1ml ~ 10 ppm
~~MS~~ spiked 10ml > 1ml sample ~ 10 ppm.

Analyzed By: AS

Disposed on: 3/27/06 By: AS

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ANALYSIS RUN LOG FOR TPH

SOP EMAX-M8015D Revision No. 3 EMAX-LUFTE Revision No. 3 Methanol/Ethanol Book # A43-012

Starting Date: 4/4/07 Time: 14:16 Ending Date: 4/4/07 Time: 17:58

Preparative Batch	Data File Name	Lab Sample ID	DF	Matrix		Notes	Instrument No:	Date
				S	W			
	DD04-007	I1043C061	2				43	
MED007S	2	CME43C06061	1	✓	10 ppm			
	3	MED0015B						
	4	L						
	5	C						
	6	06C238-01						3/6/07
	7	02						
	8	03						
	9	04						
	10	05						
	11	06D012-01						
	12	02						
	13	CONTROL SAND						
	14	CME43C06062	2		10 ppm			
	15							

ANALYTICAL BATCH DD04002

INITIAL CALIBRATION REFERENCE		Instrument No:	43
		ID	Date
Diesel			
Motor oil			
JP 5			
Alcohols		ME43C06	3/6/07
Standards			
Name	ID	Conc. (mg/L)	
CH ₂ Cl ₂			
DCC	SS3C-07-10-2	100	
LCS			
H ₂ O	organic free		

Electronic Data Archival

Location

Date

E2C_2_Diesel

Comments:

Analyzed By: XP

Disposed on: _____

By: _____

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EXTRACTION LOGS

EXTRACTION LOG FOR SPECIAL TEST

SOP EMAX-8015M Methanol/Ethanol

Book # EST-001

XP 4/14/06

Start Date 4/13/06

Time 14:00

End Date 4/14/06

Time 14:00

Matrix Soil

XP 4/14/06

XP 4/14/06

XP 4/14/06

XP 4/14/06

Sample Prep ID	Lab Sample ID	Sample Amount, (g/ml)	Extract Volume, (ml)	pH	Notes	Standards	ID	Amount Added (ul)
01	ME43D00	VOID				LCS/MS	553C-07-14-2 (1000 ppm)	100
02	MED0015B	10	10	N/A		Reagent	Lot# / ID	
03	L					H ₂ O	organic free	
04	C					Silica Sand	SWIA-03-133	
05	06C238-01							
06	02							
07	03							
08	04							
09	05							
10	06D012-01							
11	02					SDG #	Extract Location	
12	CONTROL SAND							
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

PREPARATION BATCH - MED0015B

Comments:

Prepared By: XP
Standard Added By: XP

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