

**WASHINGTON STATE TOXICOLOGY LABORATORY**  
 FORENSIC LABORATORY SERVICES BUREAU  
 WASHINGTON STATE PATROL  
 2203 AIRPORT WAY S, SUITE 360  
 SEATTLE, WASHINGTON 98134-2027  
 (206) 262-6100 FAX (206) 262-6145

**QUALITY ASSURANCE SOLUTION DATABASE**

Preparation and certification of **0.15** g/210L Quality Assurance Solution

Batch number **08039**

Date prepared: 07/31/2008

Preparation: **42.3** mL of absolute ethyl alcohol diluted to **18** Liters with water

Concentration of ethanol (g/100mL) measured by gas chromatography:

	Analyst 1	Analyst 2	Analyst 3
1	0.189	0.186	0.191
2	0.187	0.187	0.196
3	0.188	0.188	0.197
4	0.189	0.186	0.197
5	0.188	0.190	0.196
Ctrl	0.100	0.099	0.100

**Statistics:**  
 Avg. solution concent.: 0.1903 g/100 mL  
 SD: 0.00408  
 Range (3.8XSD): 0.1748 to 0.2058  
 Precision CV (%): 2.1453 %

**External Control:**  
 Lot #: A056938 Exp date: MM / YYYY 04 / 2012  
 Target concentration: 0.10 g/100mL

**Equivalent vapor concent.:** 0.1547 g/210L

Analyst	Name	Signature	Date Tested
1	Brianna Peterson	<i>Brianna Peterson</i>	07/31/2008
2	Justin L Knoy	<i>Justin L Knoy</i>	08/01/2008
3	Christie Mitchell	<i>Christie Mitchell</i>	08/06/2008

Prepared by: Brianna Peterson according to the approved protocol.

Final review by: *[Signature]* 9/18/08

# WASHINGTON STATE TOXICOLOGY LABORATORY SIMULATOR SOLUTION DATA ENTRY REVIEW



Reviewer/s: KEN DENTON / ROD GULBERG Date: 9-4-2008

Location: TOX LAB Solution Batch Number: 08039

	YES	NO	N/A
Preparation date precedes all analysis dates:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Declarations signed and properly dated:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data entry corresponds to all chromatograms:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All signatures present on Analysis sheet:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Avg. solution concentration correct?:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standard deviation correct:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Range correct if applicable:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equivalent vapor concentration correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blank Chromatograms included in file:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Control information correct: (lot # present and future date)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complies with accuracy and precision requirements established by the State Toxicologist:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CV% Correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reviewed for outliers per policy and none found?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments:			

Reviewer Signature:  Date: 9-4-08

Reviewer Signature:  Date: 9-4-2008

CHRISTINE O. GREGOIRE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
WASHINGTON STATE PATROL  
WASHINGTON STATE TOXICOLOGY LABORATORY

2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2927 • (206) 262-6100 • FAX (206) 262-6145

DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION FOR LOT 08039

I, Brianna Peterson, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the DataMaster breath test instrument.

I possess the following qualifications: BS degree in Chemistry, MS degree in Forensic Science, Ph.D. degree in Toxicology, and three years of experience in forensic toxicology.

The quality assurance solution, Lot Number 08039, was prepared in the Washington State Toxicology Laboratory on 7/31/2008. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of quality assurance solution. It should not be used for evidential breath tests after 7/31/2009.

Seattle, WA

*Brianna Peterson*      *9.3.08*  
Brianna Peterson      Date  
Forensic Toxicologist

BP/ik  
BPQA

CHRISTINE O. GREGOIRE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
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DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION FOR LOT 08039

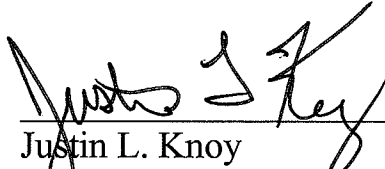
I, Justin L. Knoy, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the DataMaster breath test instrument.

I possess the following qualifications: BS degree in Biology, and MS degree in Forensic Science.

The quality assurance solution, Lot Number 08039, was prepared in the Washington State Toxicology Laboratory on 7/31/2008. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of quality assurance solution. It should not be used for evidential breath tests after 7/31/2009.

Seattle, WA

 9/3/08  
Justin L. Knoy Date  
Forensic Toxicologist

JLK/ik  
JKQA

CHRISTINE O. GREGOIRE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
WASHINGTON STATE PATROL  
WASHINGTON STATE TOXICOLOGY LABORATORY  
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DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION FOR LOT 08039

I, Christie Mitchell, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and a part of my responsibilities includes preparing and testing the alcohol solutions for the DataMaster breath test instrument.

I possess the following qualifications: BA degree in Chemistry and MFS degree in Forensic Science.

The quality assurance solution, Lot Number 08039, was prepared in the Washington State Toxicology Laboratory on 7/31/2008. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of quality assurance solution. It should not be used for evidential breath tests after 7/31/2009.

Seattle, WA

*Christie Mitchell* 9/3/08  
Christie Mitchell Date  
Forensic Toxicologist

CM/ik  
CMQA

## Solution Certificate Review Checkoff

Please check that the data on your chromatograms is the data entered into the solution certificate, that the date to the right of your name is the date that you tested the solution and then sign the certificate.

Please initial and date below to affirm that you have:

- 1- Checked your data
- 2 - Checked the date to the right of your name on the certificate
- 3 - Signed the certificate

Initials	Date
Amanda Black	
Asa Louis	
Brian Capron	
Brianna Peterson <i>br</i>	9.3.08
Brianne Akins	
Brittany Ball	
Christie Mitchell <i>cm</i>	9/3/08
Christopher Johnston	
Erin Kolbrich	
Estuardo Miranda	
Gwynyth Scherperel	
Justin Knoy <i>JK</i>	9/3/08
Lisa Noble	
Melissa Pemberton	
Naziha Nuwayhid	
Rebecca Flaherty	
Sarah Swenson	

C:\HPCHEM\2\METHODS\BLDALCO3.M

7/31/2008 2:45:31 PM

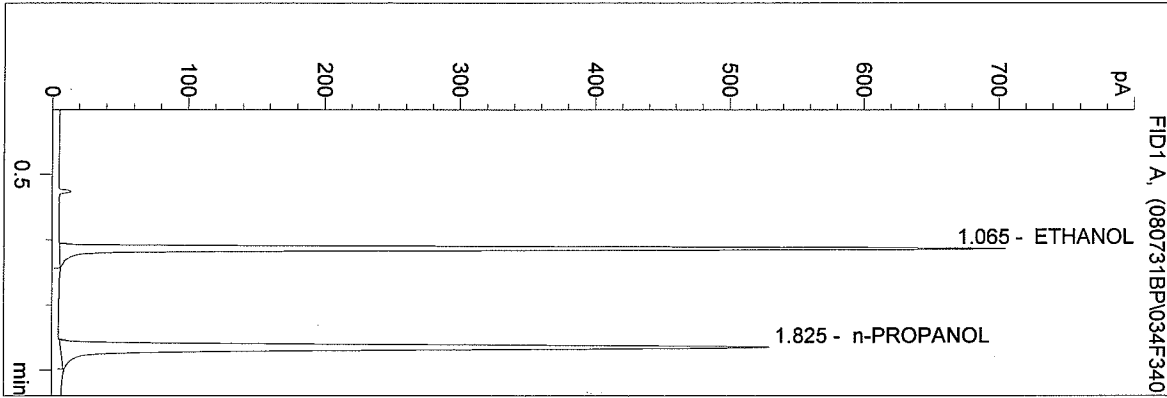
Instrument 3

db-alc2

QA08039-1

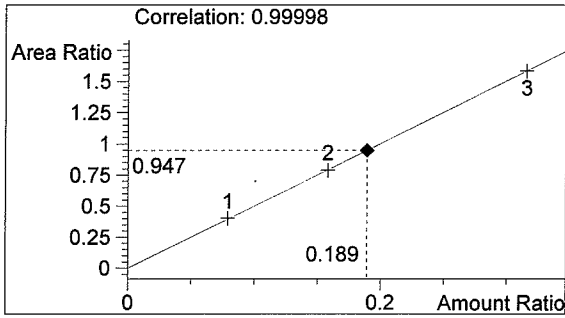
Brianna Peterson

vial # 34



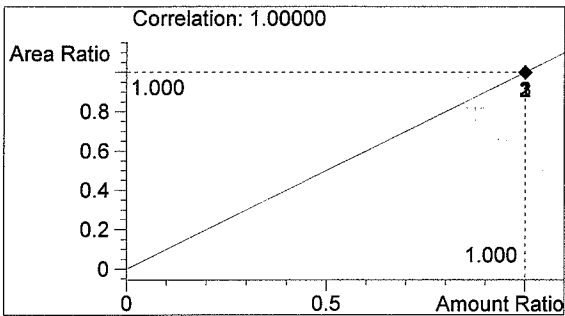
#	Compound	Area	RT
1	ETHANOL	1388	1.065
2	n-PROPANOL	1465	1.825

Totals:



ETHANOL

0.189 g/100ml



n-PROPANOL

1.000 g/100ml

BP

CALIBRATION DATA FILED WITH 08036

C:\HPCHEM\2\METHODS\BLDALCO3.M

7/31/2008 2:48:38 PM

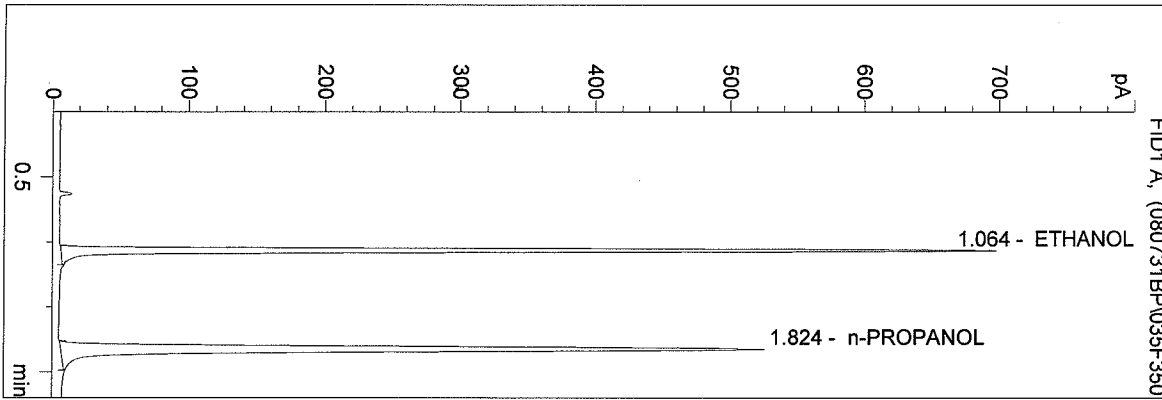
Instrument 3

db-alc2

QA08039-2

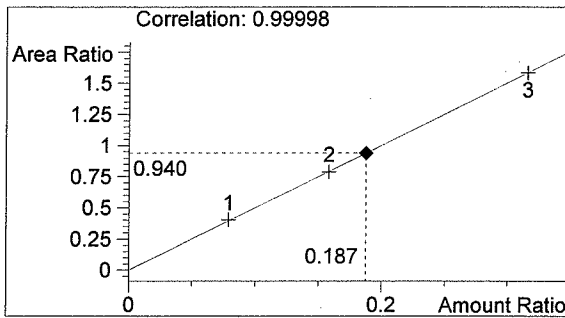
Brianna Peterson

vial # 35



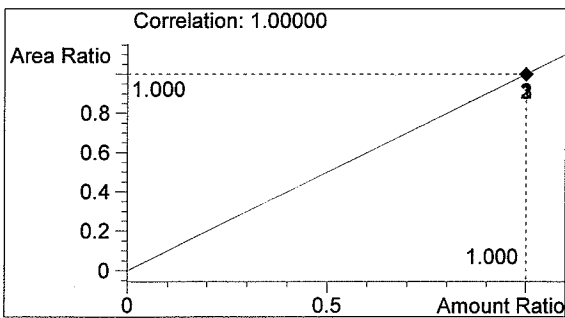
#	Compound	Area	RT
1	ETHANOL	1370	1.064
2	n-PROPANOL	1458	1.824

Totals:



ETHANOL

0.187 g/100ml



n-PROPANOL

1.000 g/100ml

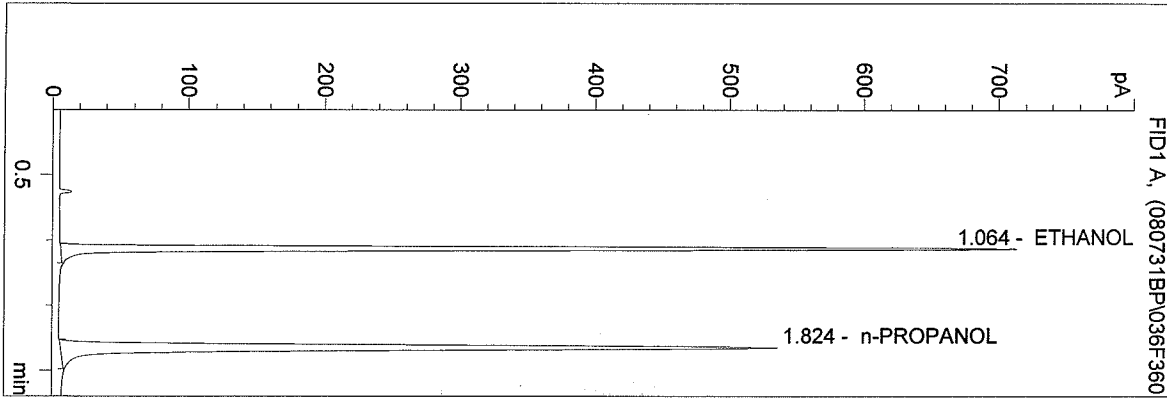
*Br*



C:\HPCHEM\2\METHODS\BLDALCO3.M  
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 Instrument 3  
 db-alc2

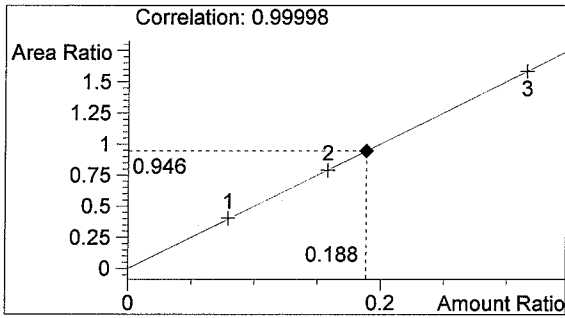
QA08039-3  
 Brianna Peterson

vial # 36



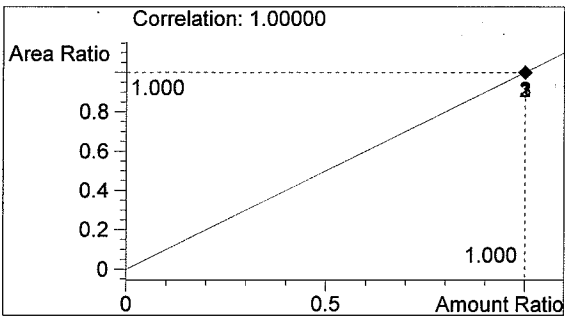
#	Compound	Area	RT
1	ETHANOL	1403	1.064
2	n-PROPANOL	1484	1.824

Totals:



ETHANOL

0.188 g/100ml



n-PROPANOL

1.000 g/100ml

Bl

C:\HPCHEM\2\METHODS\BLDALCO3.M

7/31/2008 2:54:52 PM

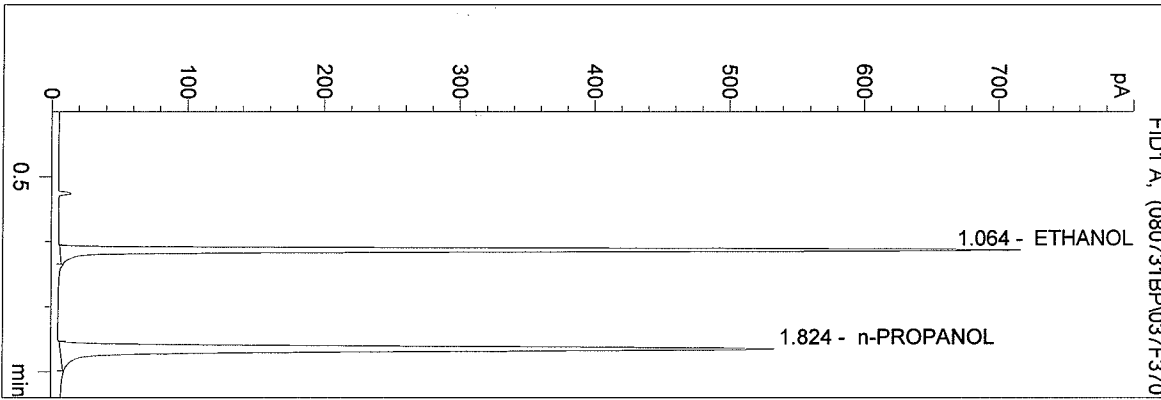
Instrument 3

db-alc2

QA08039-4

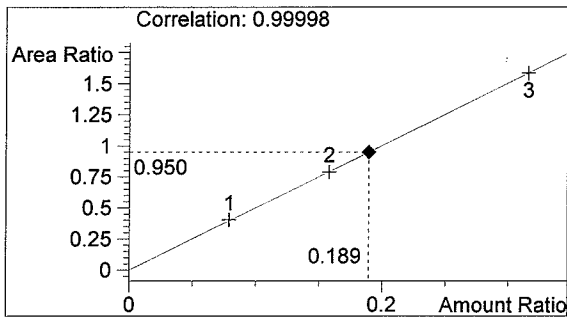
Brianna Peterson

vial # 37



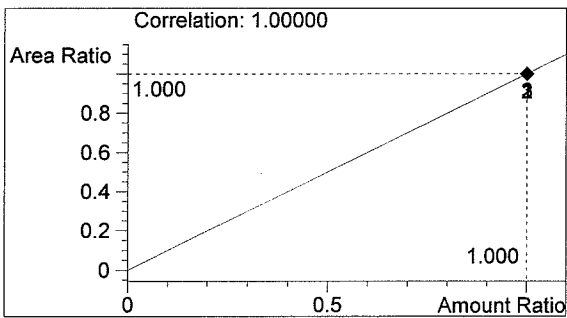
#	Compound	Area	RT
1	ETHANOL	1404	1.064
2	n-PROPANOL	1477	1.824

Totals:



ETHANOL

0.189 g/100ml



n-PROPANOL

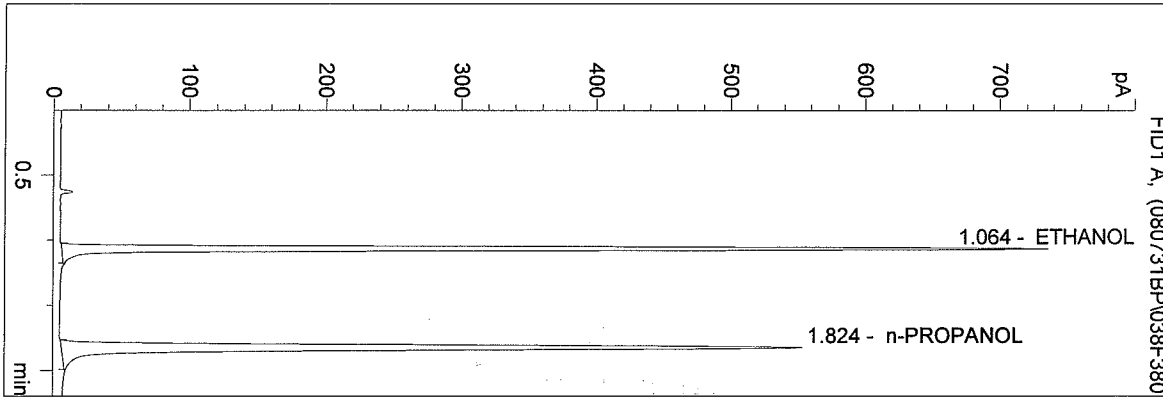
1.000 g/100ml

*BP*

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 Instrument 3  
 db-alc2

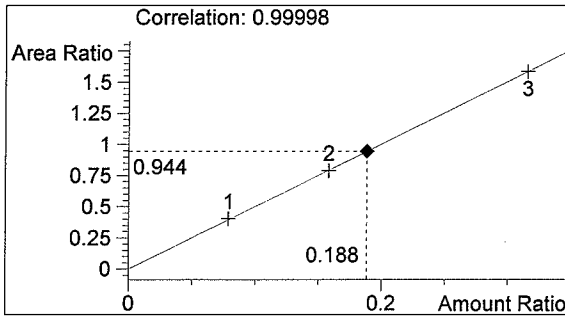
QA08039-5  
 Brianna Peterson

vial # 38



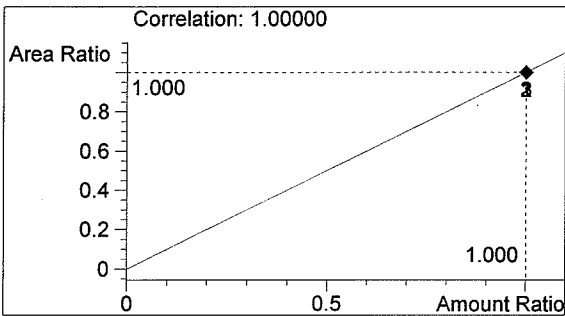
#	Compound	Area	RT
1	ETHANOL	1448	1.064
2	n-PROPANOL	1534	1.824

Totals:



ETHANOL

0.188 g/100ml



n-PROPANOL

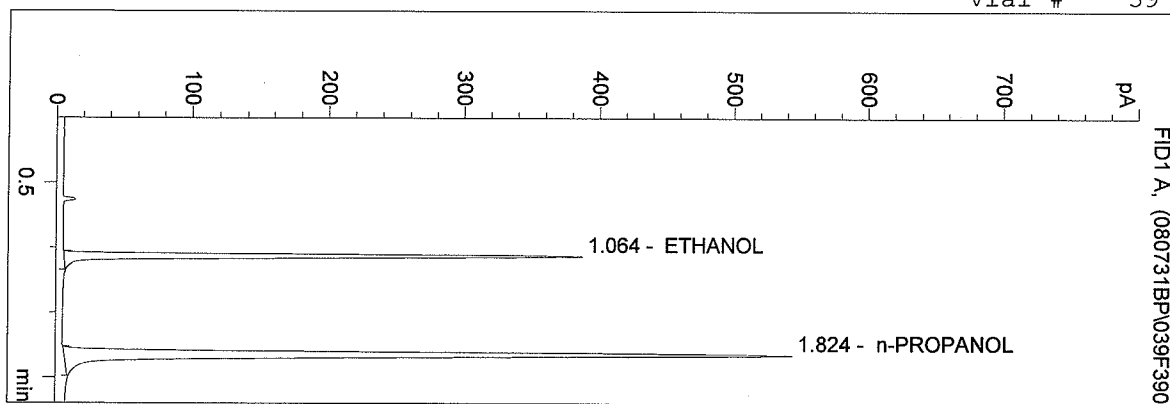
1.000 g/100ml

*BP*

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 Instrument 3  
 db-alc2

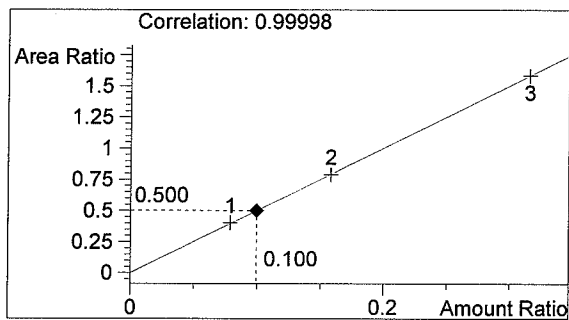
0.10 CTL-BP  
 Brianna Peterson

vial # 39



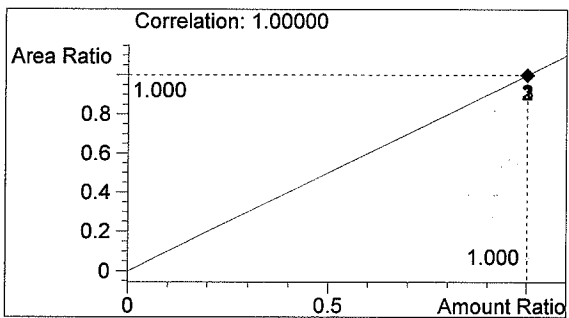
#	Compound	Area	RT
1	ETHANOL	755	1.064
2	n-PROPANOL	1509	1.824

Totals:



ETHANOL

0.100 g/100ml



n-PROPANOL

1.000 g/100ml

BP

C:\HPCHEM\2\METHODS\BLDALCO3.M

7/31/2008 3:04:13 PM

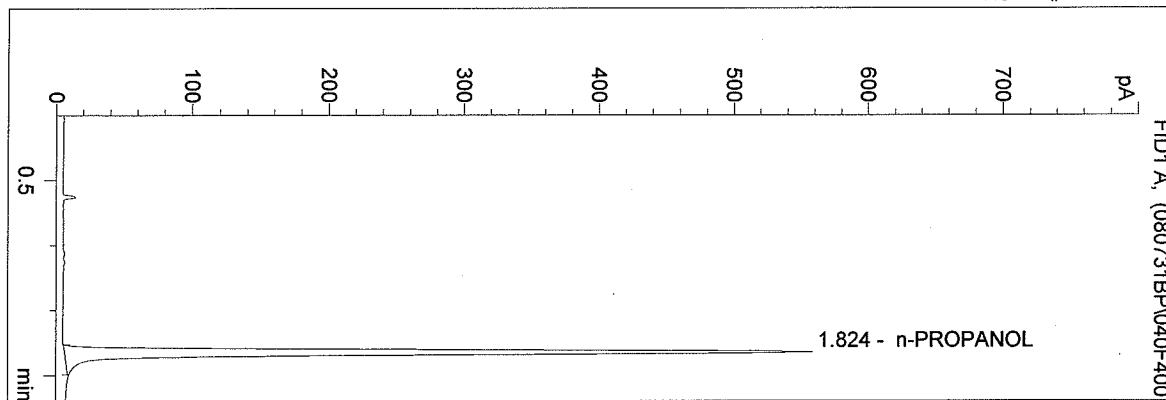
Instrument 3

db-alc2

BLANK

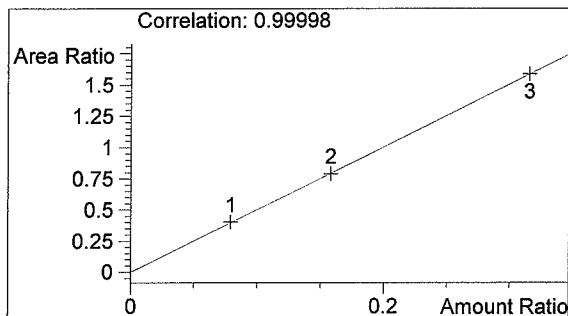
Brianna Peterson

vial # 40



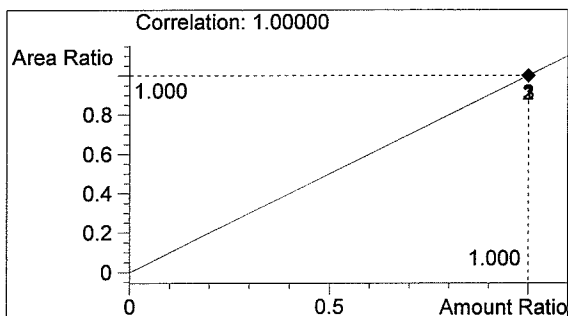
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1550	1.824

Totals:



ETHANOL

0.000 g/100ml



n-PROPANOL

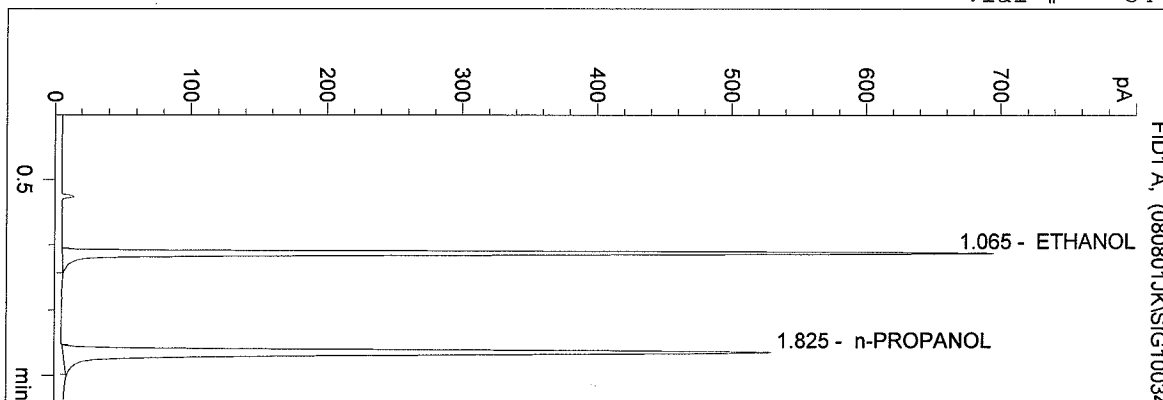
1.000 g/100ml

*BP*

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/1/2008 3:39:30 PM  
 Instrument 3  
 db-alc2

QA08039-1  
 Justin Knoy

vial # 34

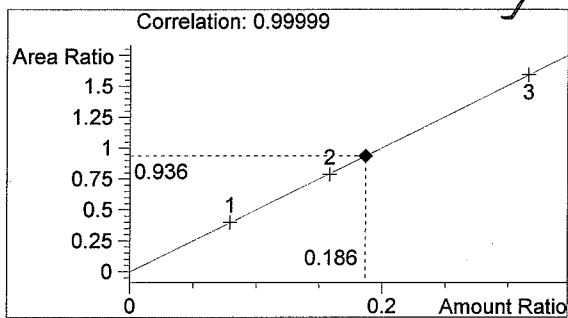


#	Compound	Area	RT
1	ETHANOL	1376	1.065
2	n-PROPANOL	1470	1.825

Calibration w/

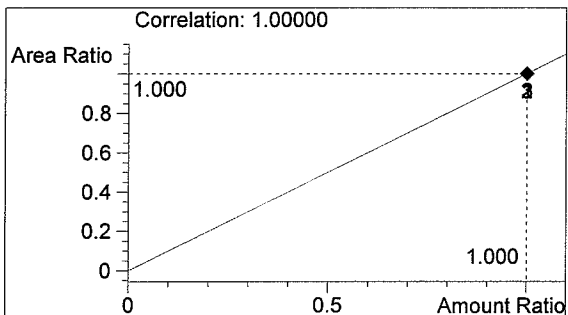
QA 09036

Totals:



ETHANOL

0.186 g/100ml



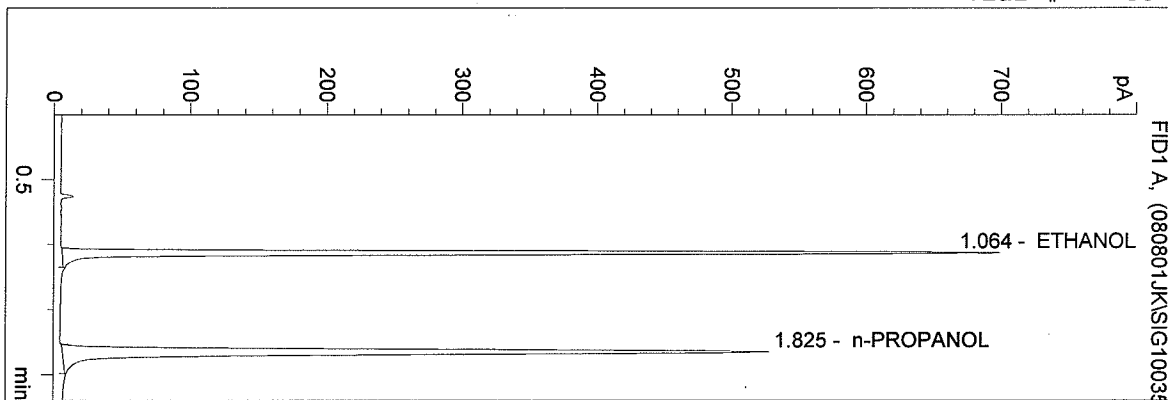
n-PROPANOL

1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO3.M  
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 Instrument 3  
 db-alc2

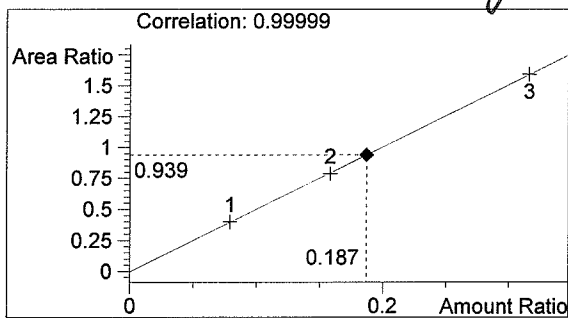
QA08039-2  
 Justin Knoy

vial # 35



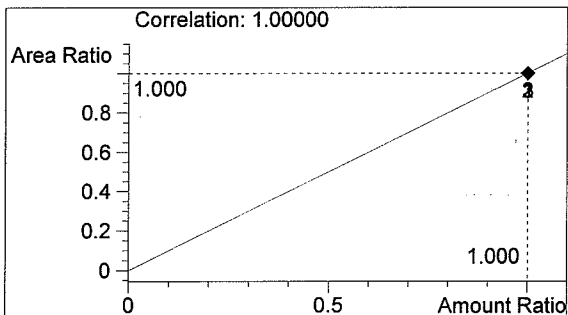
#	Compound	Area	RT
1	ETHANOL	1375	1.064
2	n-PROPANOL	1465	1.825

Totals:



ETHANOL

0.187 g/100ml



n-PROPANOL

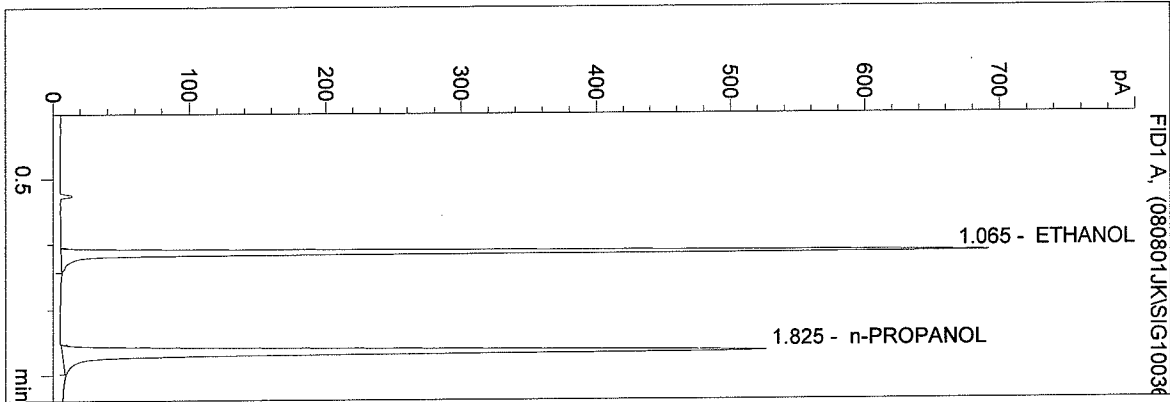
1.000 g/100ml

*JK*

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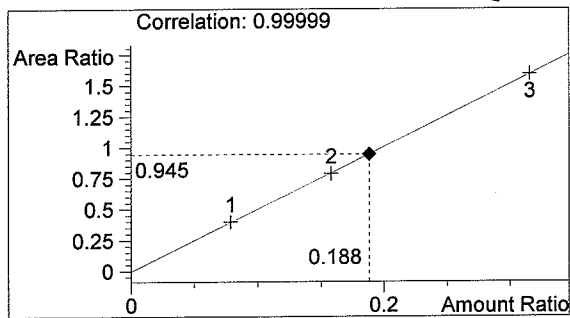
QA08039-3  
 Justin Knoy

vial # 36



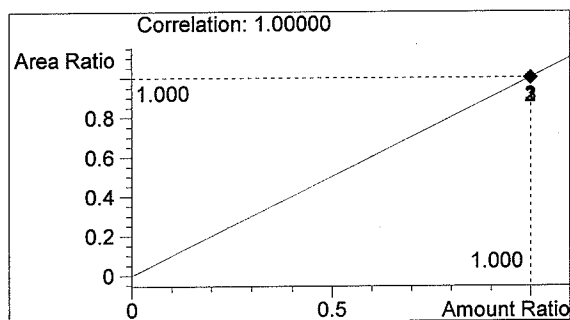
#	Compound	Area	RT
1	ETHANOL	1378	1.065
2	n-PROPANOL	1459	1.825

Totals:



ETHANOL

0.188 g/100ml



n-PROPANOL

1.000 g/100ml

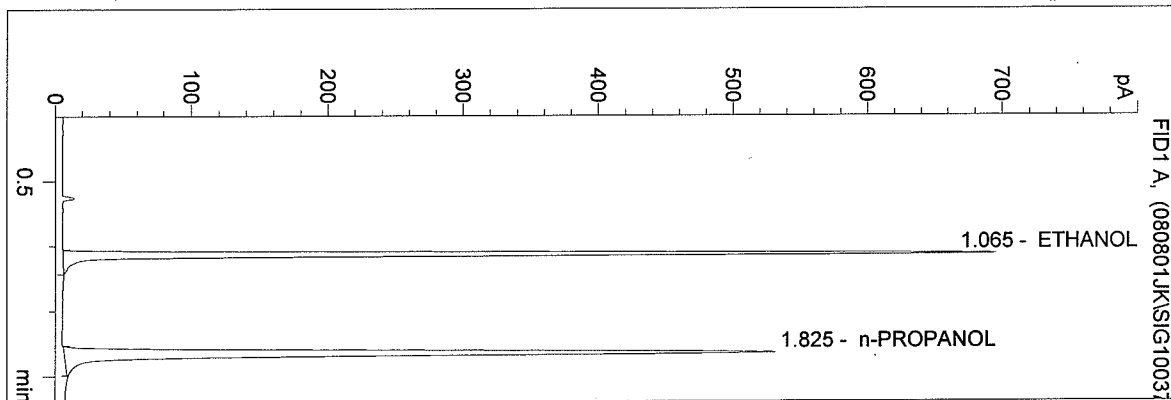
*JK*



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 Instrument 3  
 db-alc2

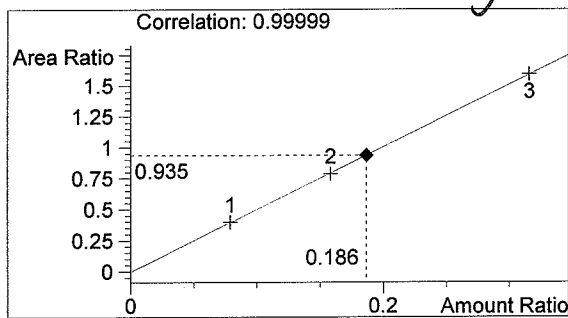
QA08039-4  
 Justin Knoy

vial # 37



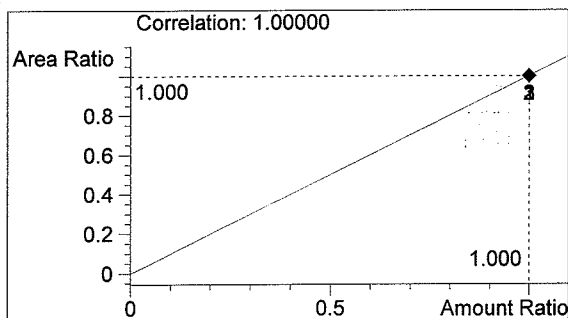
#	Compound	Area	RT
1	ETHANOL	1378	1.065
2	n-PROPANOL	1473	1.825

Totals:



ETHANOL

0.186 g/100ml



n-PROPANOL

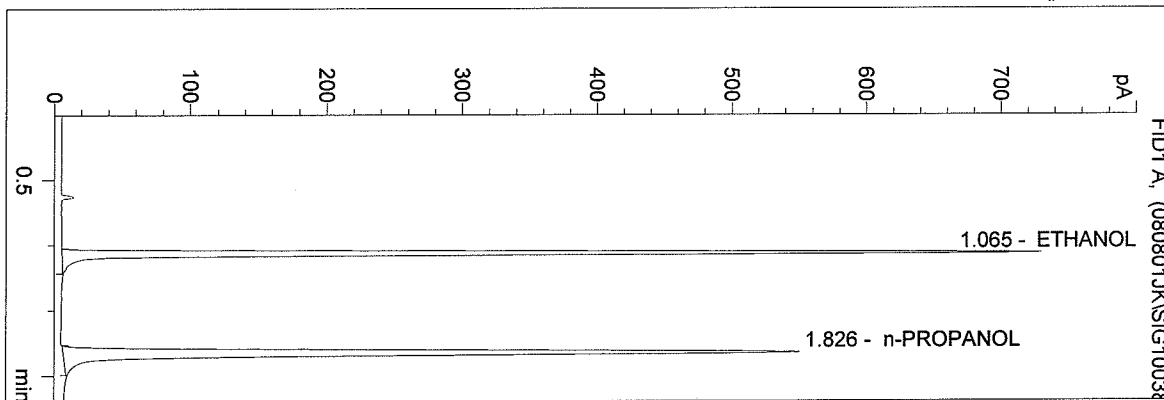
1.000 g/100ml

*JK*

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 Instrument 3  
 db-alc2

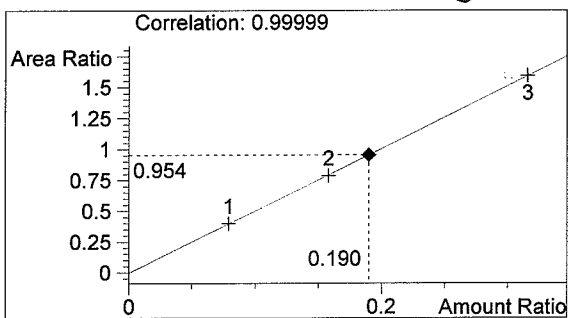
QA08039-5  
 Justin Knoy

vial # 38



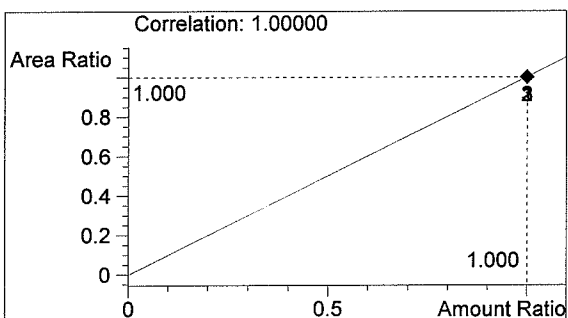
#	Compound	Area	RT
1	ETHANOL	1458	1.065
2	n-PROPANOL	1528	1.826

Totals:



ETHANOL

0.190 g/100ml



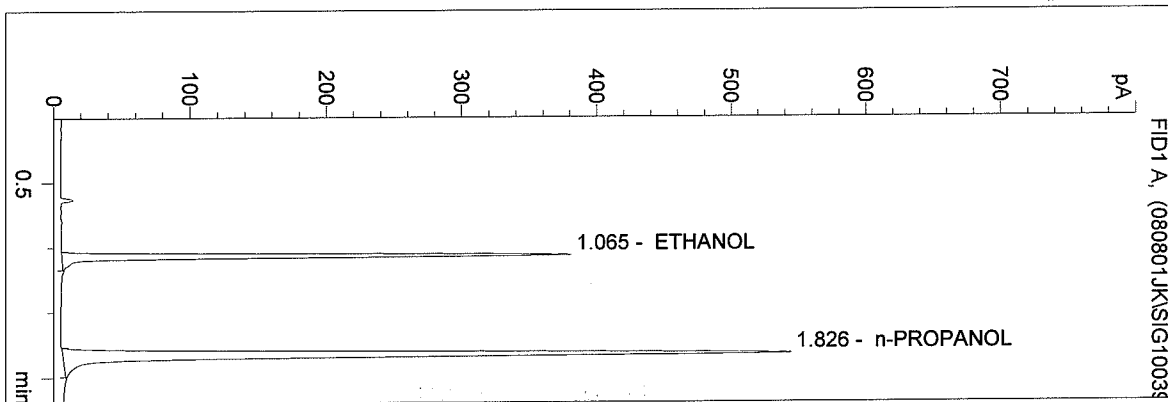
n-PROPANOL

1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/1/2008 3:55:06 PM  
 Instrument 3  
 db-alc2

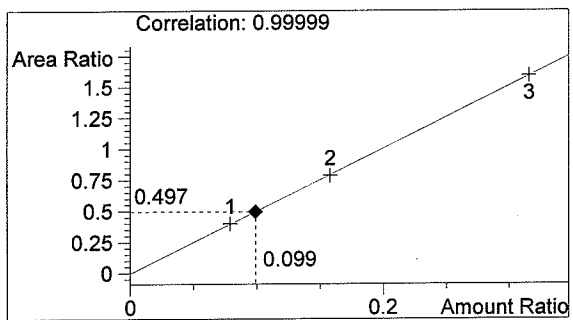
0.10 CTRL JK  
 Justin Knoy

vial # 39



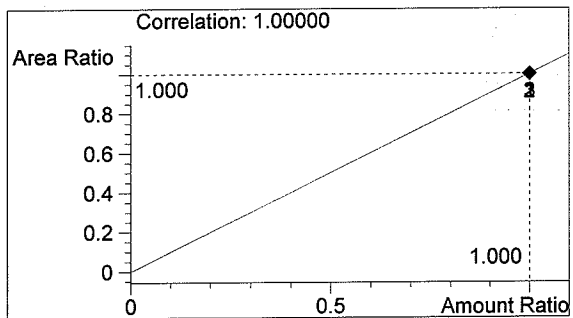
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1	ETHANOL	750	1.065
2	n-PROPANOL	1510	1.826

Totals:



ETHANOL

0.099 g/100ml



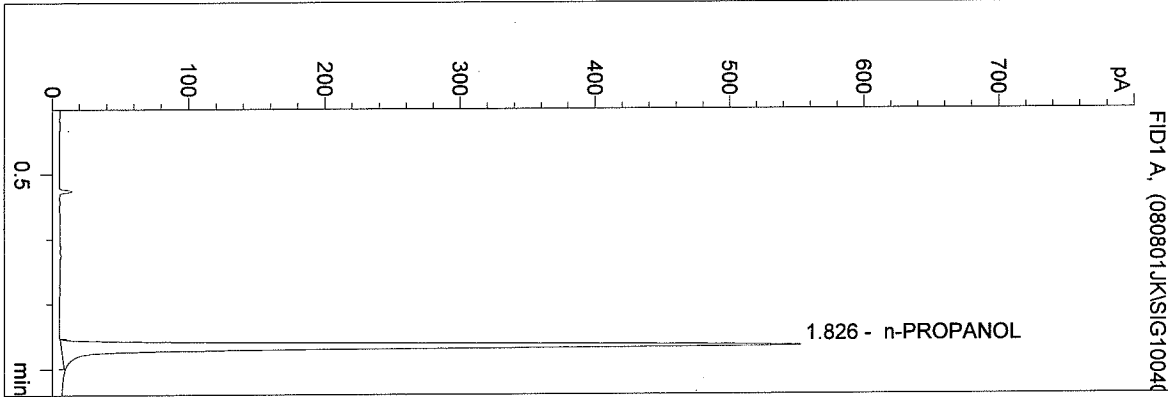
n-PROPANOL

1.000 g/100ml

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 Instrument 3  
 db-alc2

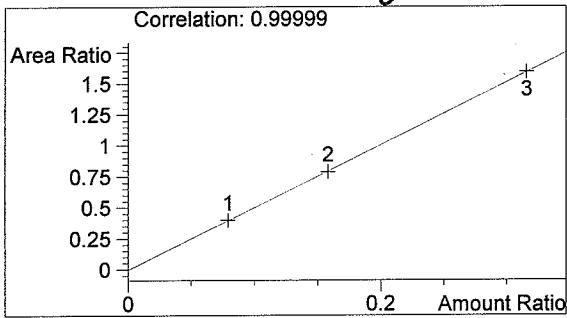
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 Justin Knoy

vial # 40



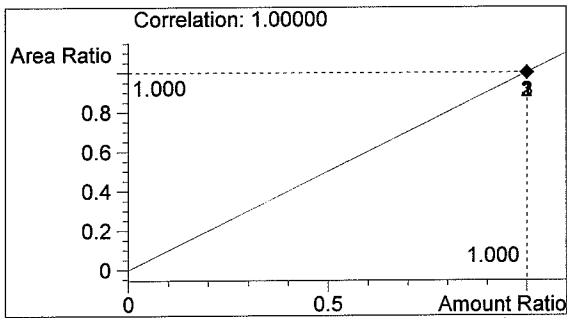
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1538	1.826

Totals:



ETHANOL

0.000 g/100ml



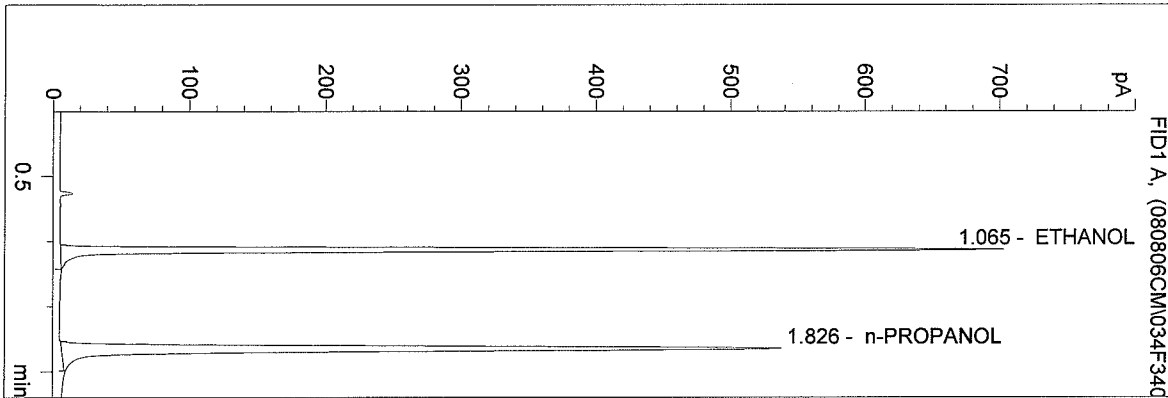
n-PROPANOL

1.000 g/100ml

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 8/6/2008 11:16:42 AM  
 Instrument 3  
 db-alc2

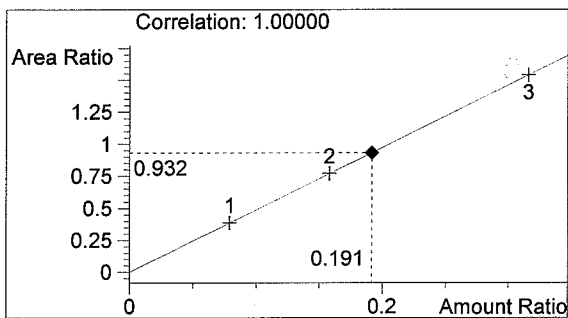
QA08039-1  
 Christie Mitchell

vial # 34



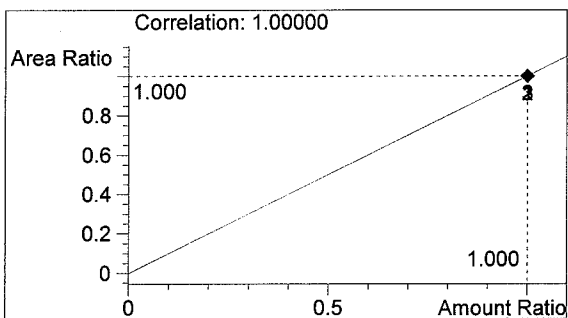
#	Compound	Area	RT
1	ETHANOL	1392	1.065
2	n-PROPANOL	1493	1.826

Totals:



ETHANOL

0.191 g/100ml



n-PROPANOL

1.000 g/100ml

*CM*

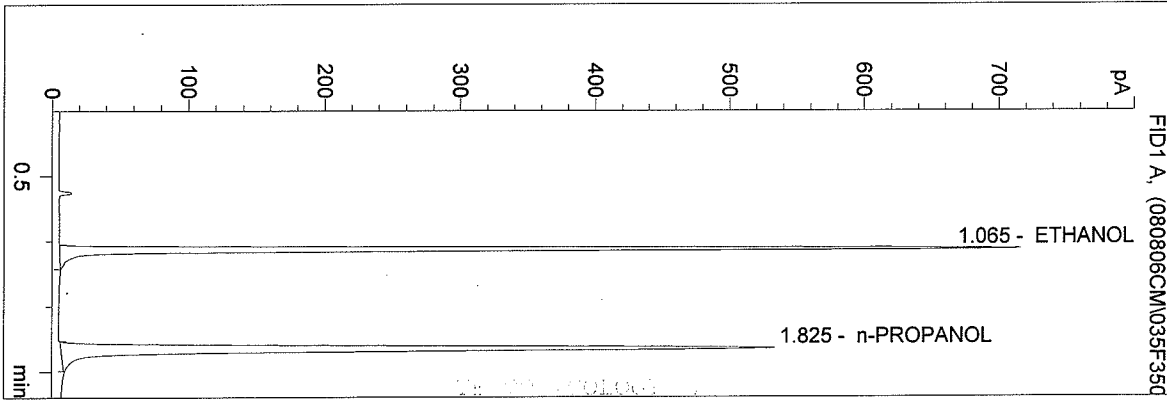
Calibration data filed with QA08036

*CM*  
 8/6/2008

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:19:49 AM  
 Instrument 3  
 db-alc2

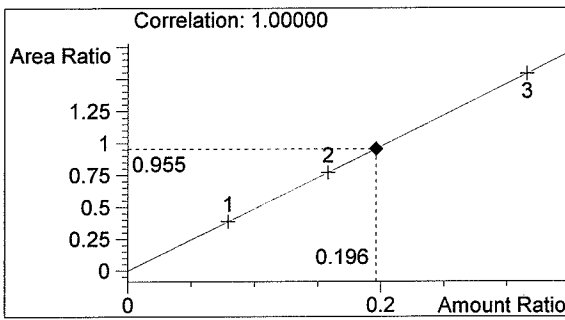
QA08039-2  
 Christie Mitchell

vial # 35

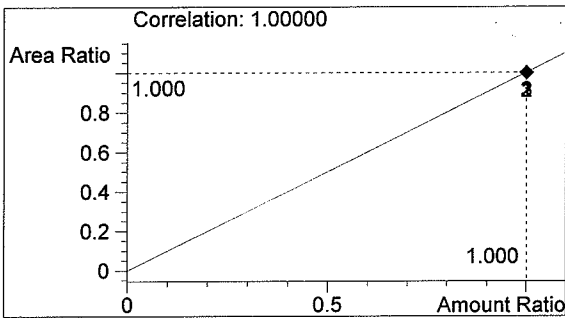


#	Compound	Area	RT
1	ETHANOL	1414	1.065
2	n-PROPANOL	1480	1.825

Totals:



0.196 g/100ml



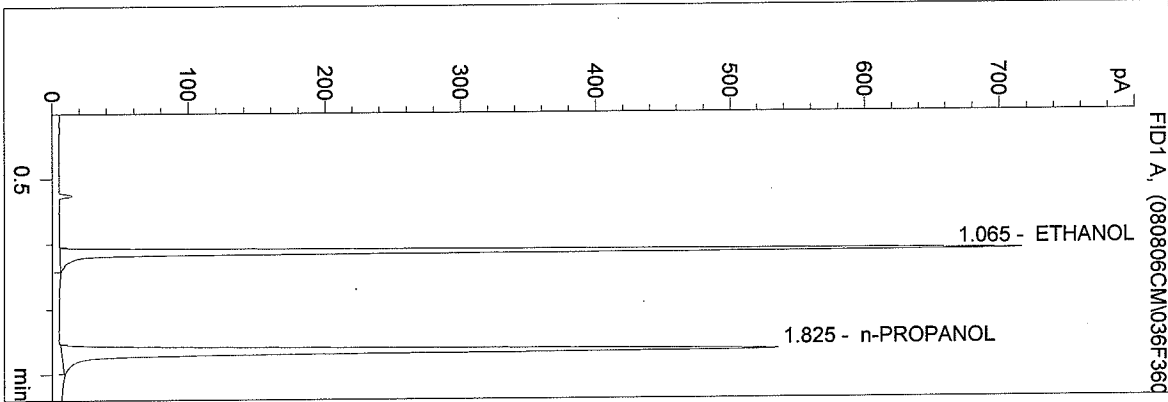
1.000 g/100ml

CM

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:22:57 AM  
 Instrument 3  
 db-alc2

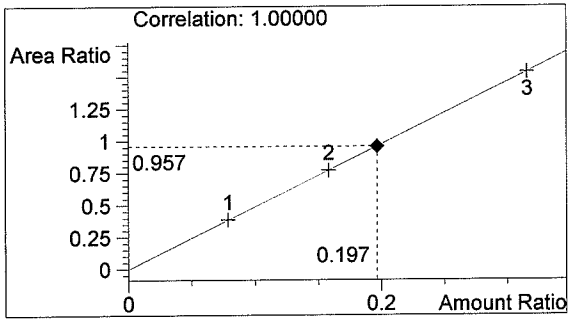
QA08039-3  
 Christie Mitchell

vial # 36



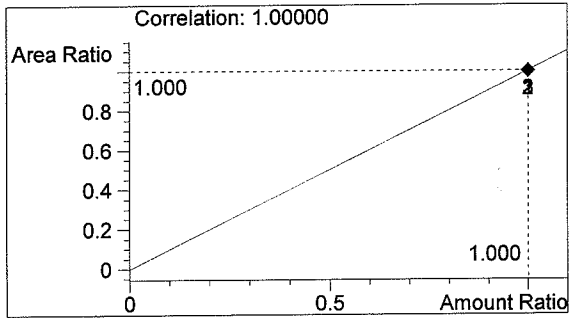
#	Compound	Area	RT
1	ETHANOL	1420	1.065
2	n-PROPANOL	1485	1.825

Totals:



ETHANOL

0.197 g/100ml



n-PROPANOL

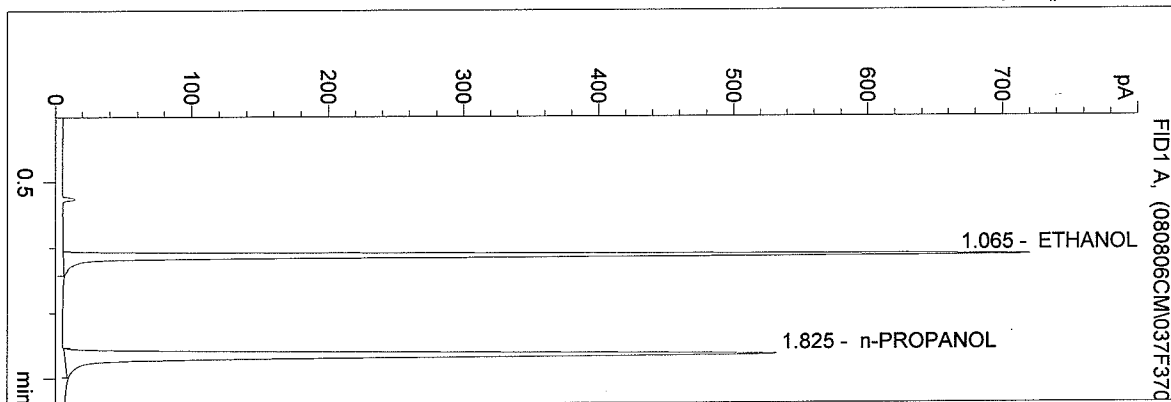
1.000 g/100ml

*CM*

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:26:04 AM  
 Instrument 3  
 db-alc2

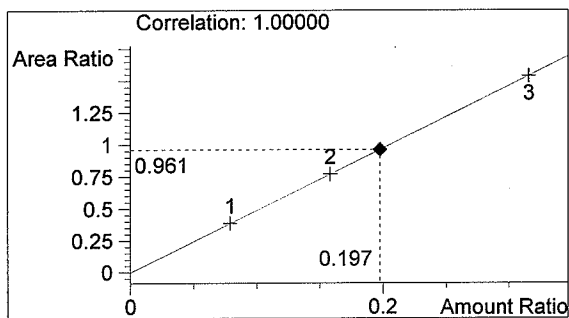
QA08039-4  
 Christie Mitchell

vial # 37

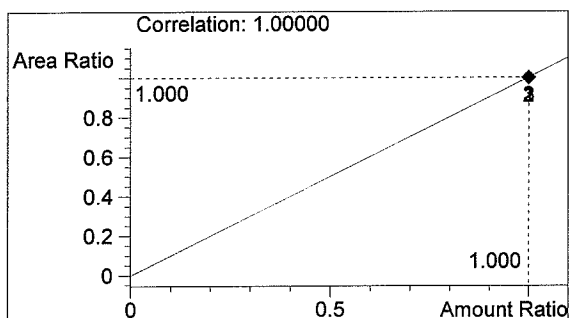


#	Compound	Area	RT
1	ETHANOL	1418	1.065
2	n-PROPANOL	1475	1.825

Totals:



0.197 g/100ml



1.000 g/100ml

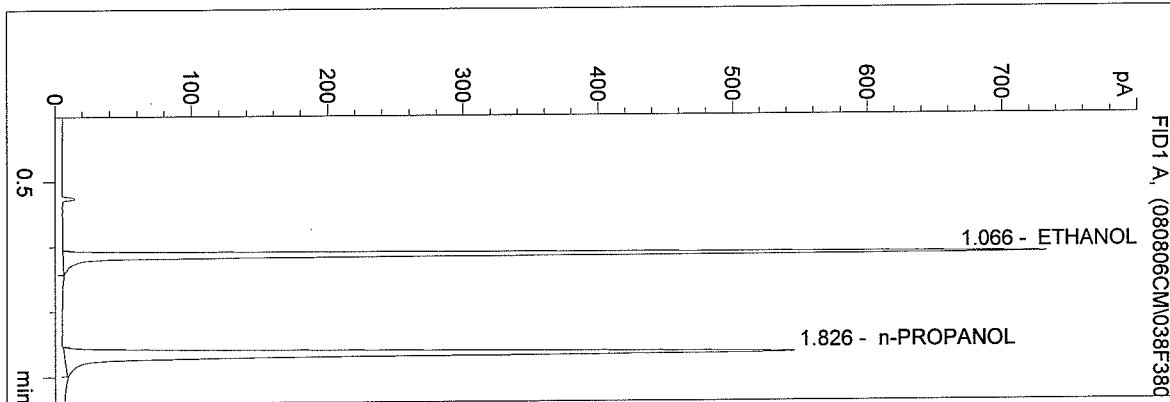
CM



C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:29:11 AM  
 Instrument 3  
 db-alc2

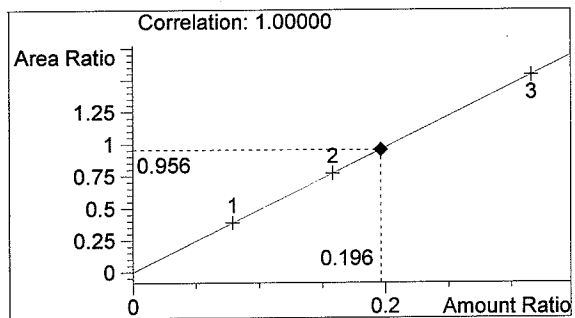
QA08039-5  
 Christie Mitchell

vial # 38

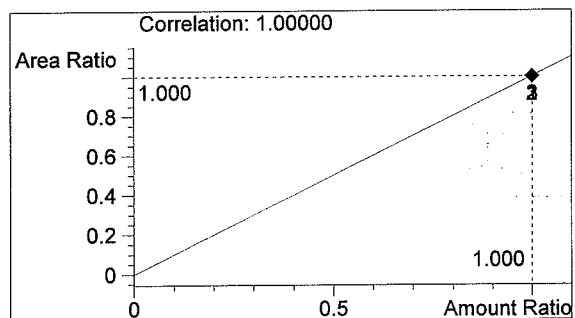


#	Compound	Area	RT
1	ETHANOL	1447	1.066
2	n-PROPANOL	1515	1.826

Totals:



0.196 g/100ml



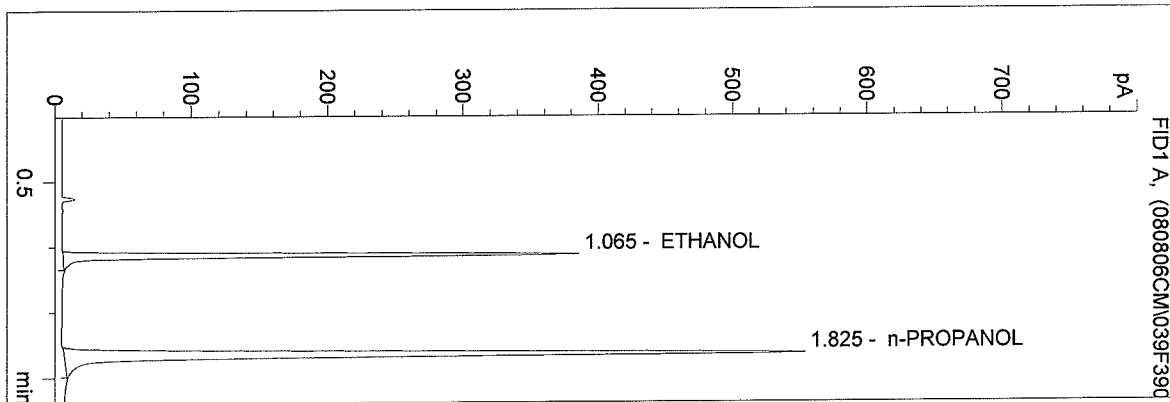
1.000 g/100ml

*CM*

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:32:18 AM  
 Instrument 3  
 db-alc2

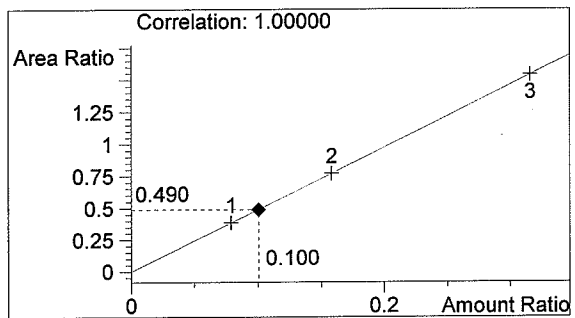
0.10 Ctrl-CM  
 Christie Mitchell

vial # 39



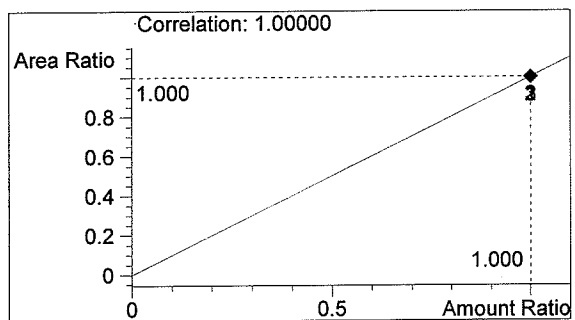
#	Compound	Area	RT
1	ETHANOL	752	1.065
2	n-PROPANOL	1535	1.825

Totals:



ETHANOL

0.100 g/100ml



n-PROPANOL

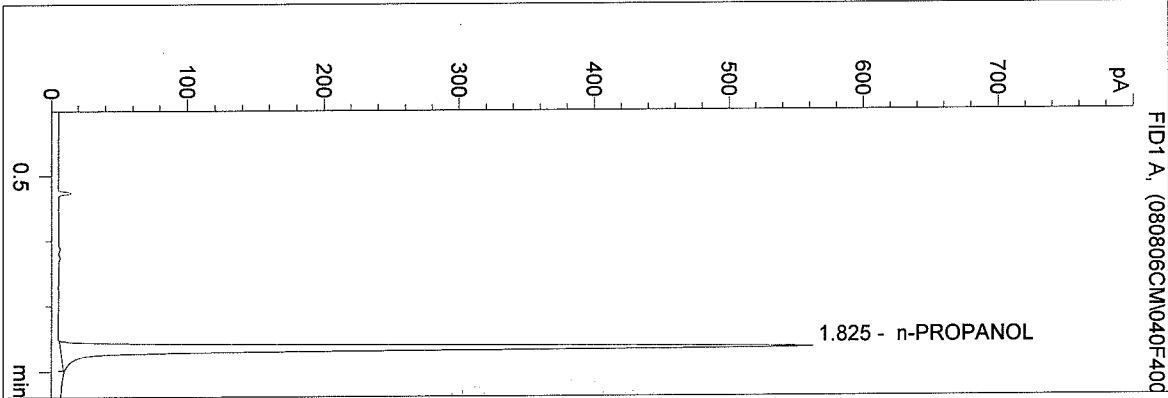
1.000 g/100ml

CM

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:35:26 AM  
 Instrument 3  
 db-alc2

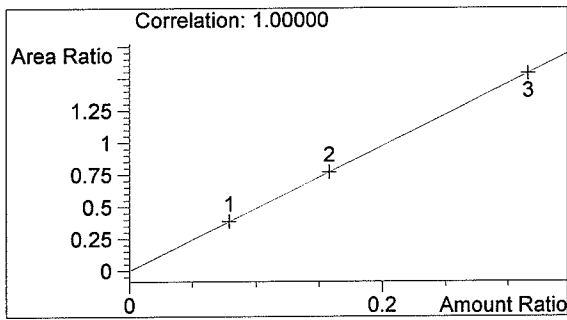
BLANK  
 Christie Mitchell

vial # 40



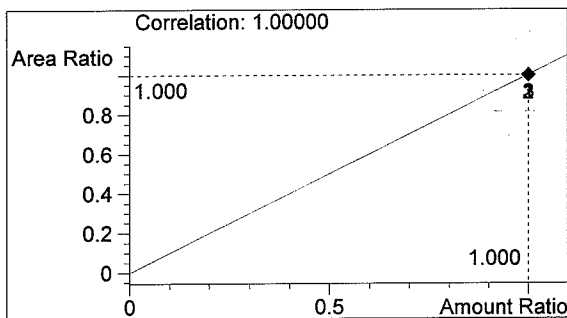
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1560	1.825

Totals:



ETHANOL

0.000 g/100ml



n-PROPANOL

1.000 g/100ml

*CM*