

**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 **0.10** g/210L Quality Assurance Solution

Batch number: **08038**

Date prepared: 07/31/2008

Preparation: **28.9** 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	0.127	0.126	0.128
2	0.128	0.127	0.129
3	0.127	0.127	0.129
4	0.129	0.128	0.131
5	0.129	0.126	0.129
Ctrl	0.101	0.099	0.100

**Statistics:**  
 Avg. solution concent.: 0.1280 g/100 mL  
 SD: 0.00136  
 Range (3.8XSD): 0.1228 to 0.1332  
 Precision CV (%): 1.0647 %

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

**Equivalent vapor concent.:** 0.1041 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.


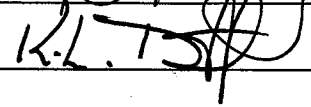
Final review by: *[Signature]* 08/18/08

# WASHINGTON STATE TOXICOLOGY LABORATORY SIMULATOR SOLUTION DATA ENTRY REVIEW



Reviewer/s: KEN DENTON / ROD GUMBERG Date: 9-4-2008  
 Location: TOX LAB Solution Batch Number: 08038

	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 08038

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 08038, 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  
WASHINGTON STATE PATROL  
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DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION FOR LOT 08038

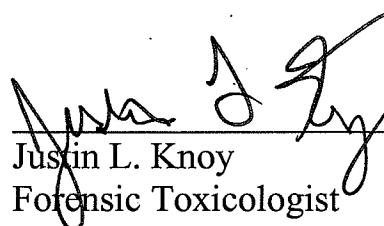
I, Justin L. Knoy, do certify under penalty of perjury that:

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 08038, 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

  
Justin L. Knoy Date 9/3/08  
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 08038

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 08038, 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>bp</i>	<i>9/3/08</i>
Brianne Akins	
Brittany Ball	
Christie Mitchell <i>CM</i>	<i>9/3/08</i>
Christopher Johnston	
Erin Kolbrich	
Estuardo Miranda	
Gwynyth Scherperel	
Justin Knoy <i>JK</i>	<i>9/3/08</i>
Lisa Noble	
Melissa Pemberton	
Naziha Nuwayhid	
Rebecca Flaherty	
Sarah Swenson	

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

7/31/2008 2:23:41 PM

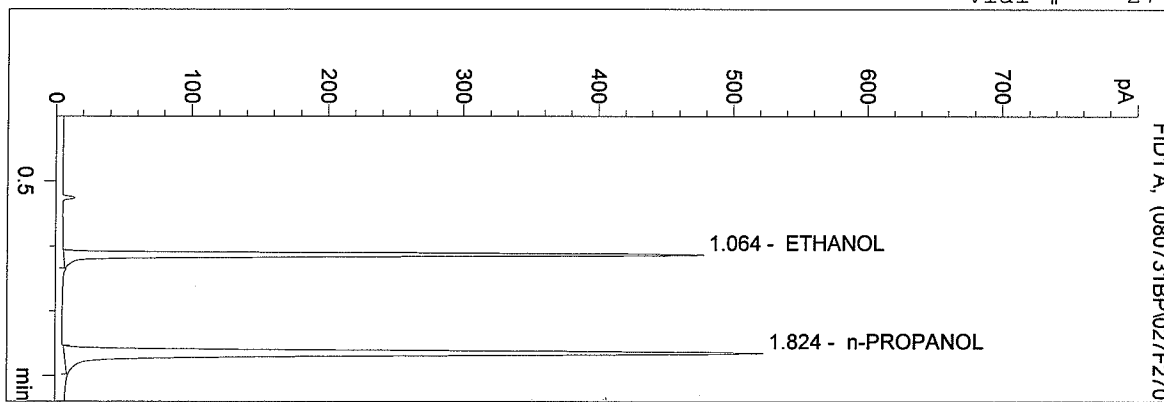
Instrument 3

db-alc2

QA08038-1

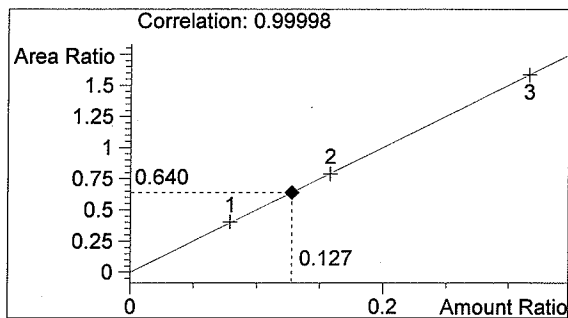
Brianna Peterson

vial # 27



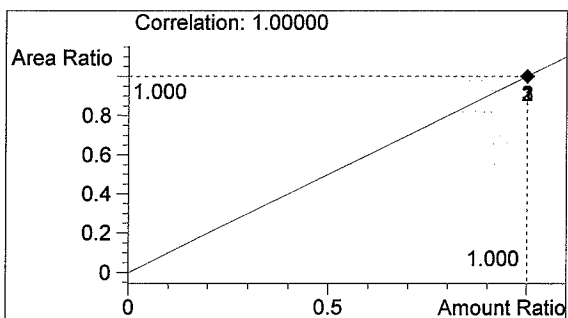
#	Compound	Area	RT
1	ETHANOL	924	1.064
2	n-PROPANOL	1444	1.824

Totals:



ETHANOL

0.127 g/100ml



n-PROPANOL

1.000 g/100ml

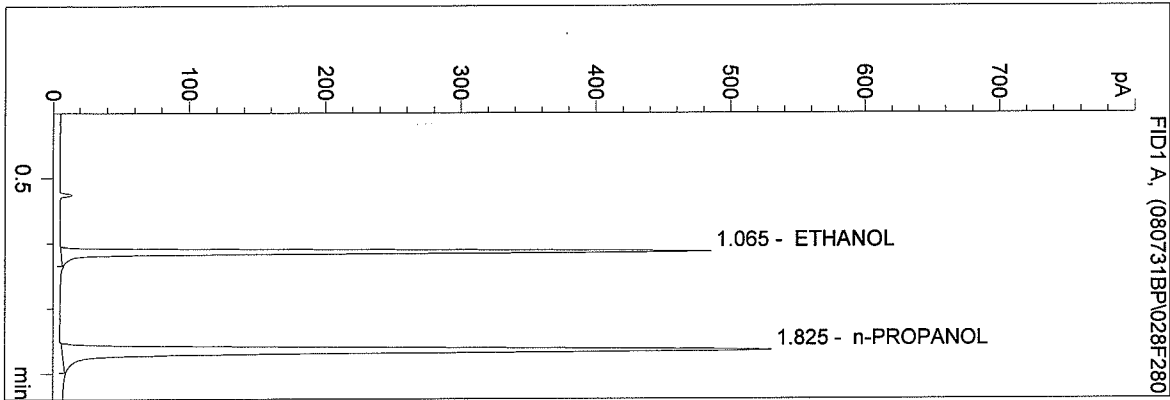
BP

CALIBRATION DATA FILED WITH 08036

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

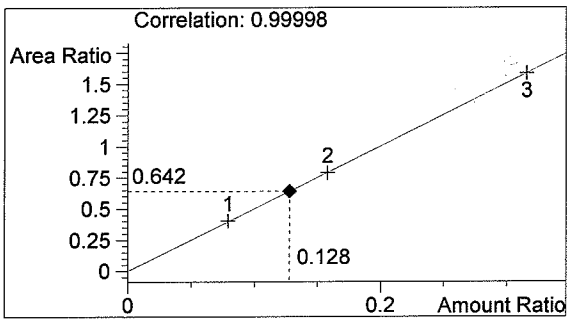
QA08038-2  
 Brianna Peterson

vial # 28



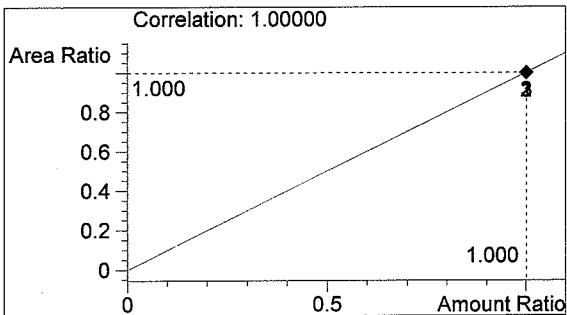
#	Compound	Area	RT
1	ETHANOL	939	1.065
2	n-PROPANOL	1463	1.825

Totals:



ETHANOL

0.128 g/100ml



n-PROPANOL

1.000 g/100ml

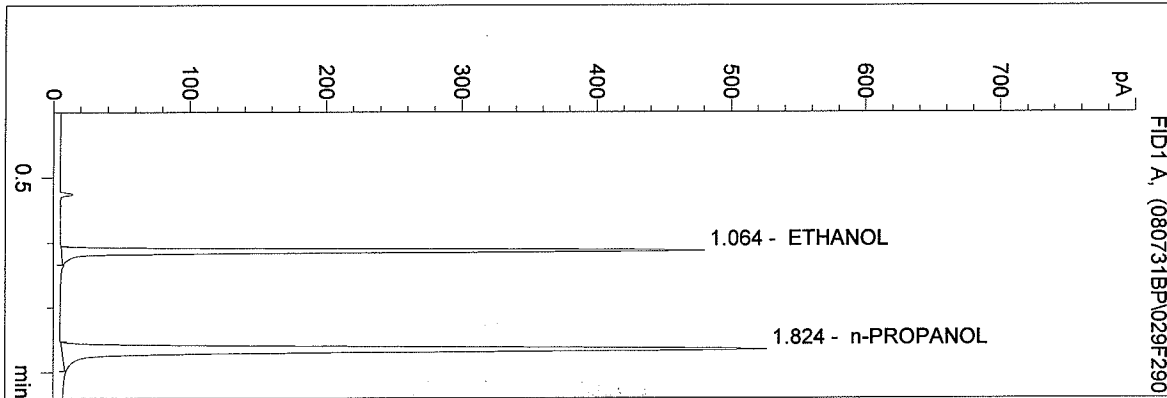
BP



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 Instrument 3  
 db-alc2

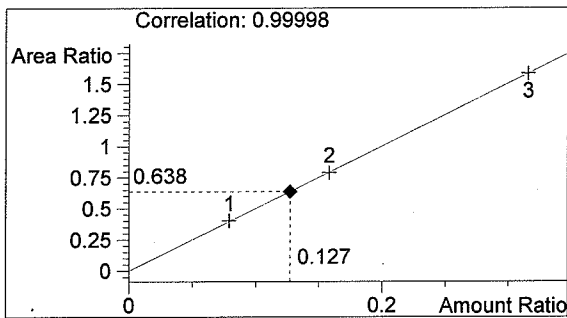
QA08038-3  
 Brianna Peterson

vial # 29



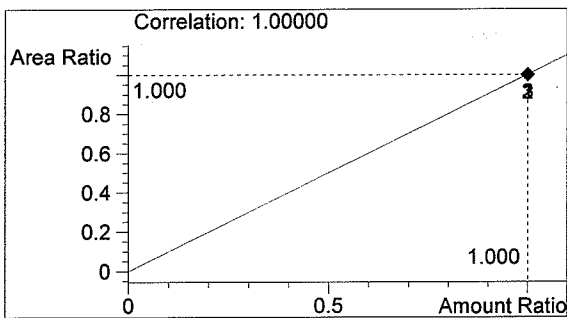
#	Compound	Area	RT
1	ETHANOL	931	1.064
2	n-PROPANOL	1458	1.824

Totals:



ETHANOL

0.127 g/100ml



n-PROPANOL

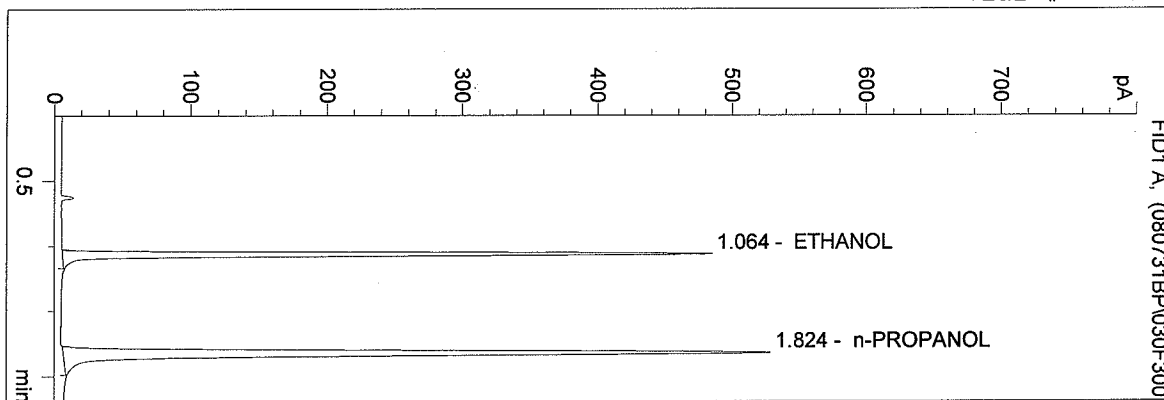
1.000 g/100ml

BP

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 Instrument 3  
 db-alc2

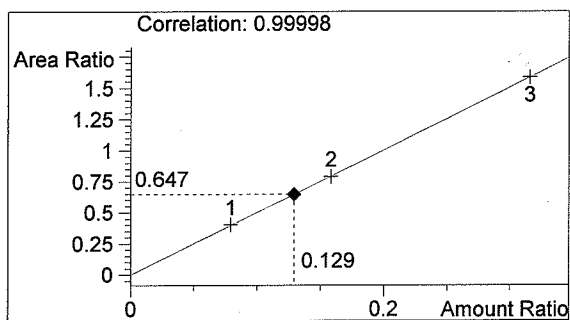
QA08038-4  
 Brianna Peterson

vial # 30



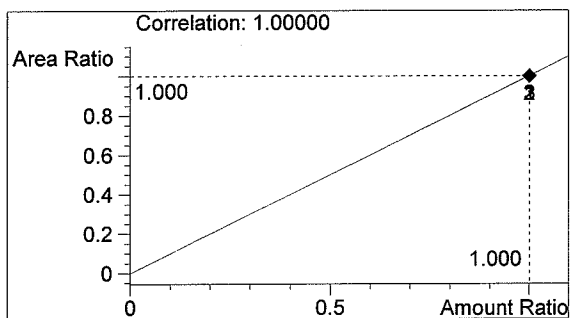
#	Compound	Area	RT
1	ETHANOL	946	1.064
2	n-PROPANOL	1462	1.824

Totals:



ETHANOL

0.129 g/100ml



n-PROPANOL

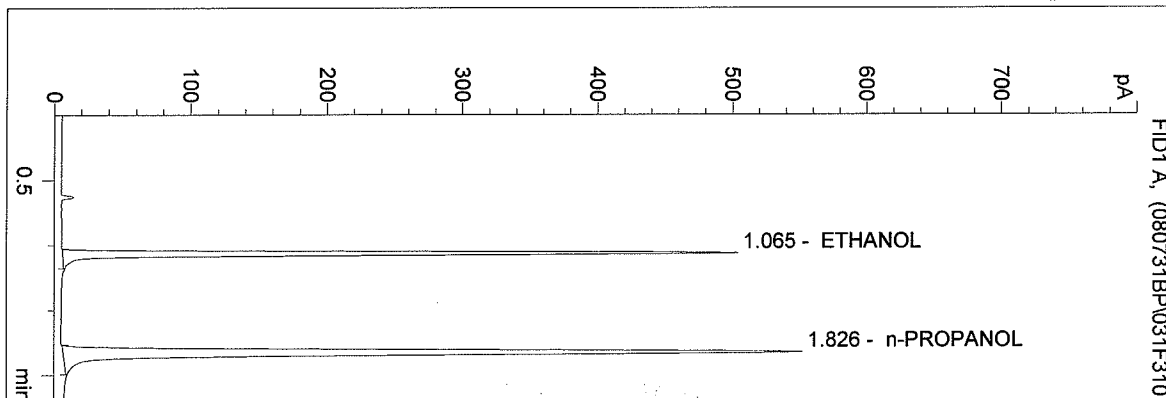
1.000 g/100ml

BP

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 Instrument 3  
 db-alc2

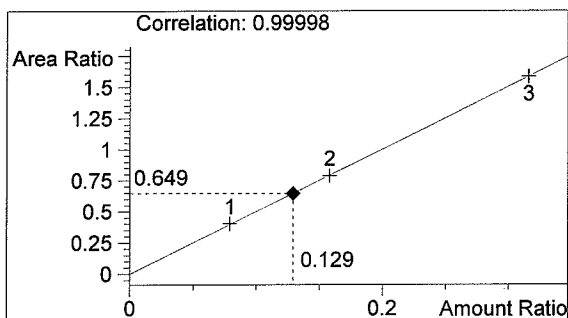
QA08038-5  
 Brianna Peterson

vial # 31



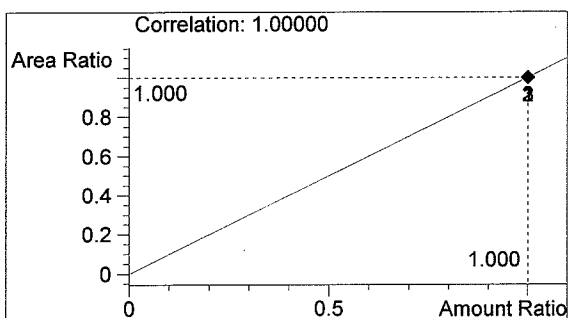
#	Compound	Area	RT
1	ETHANOL	993	1.065
2	n-PROPANOL	1531	1.826

Totals:



ETHANOL

0.129 g/100ml



n-PROPANOL

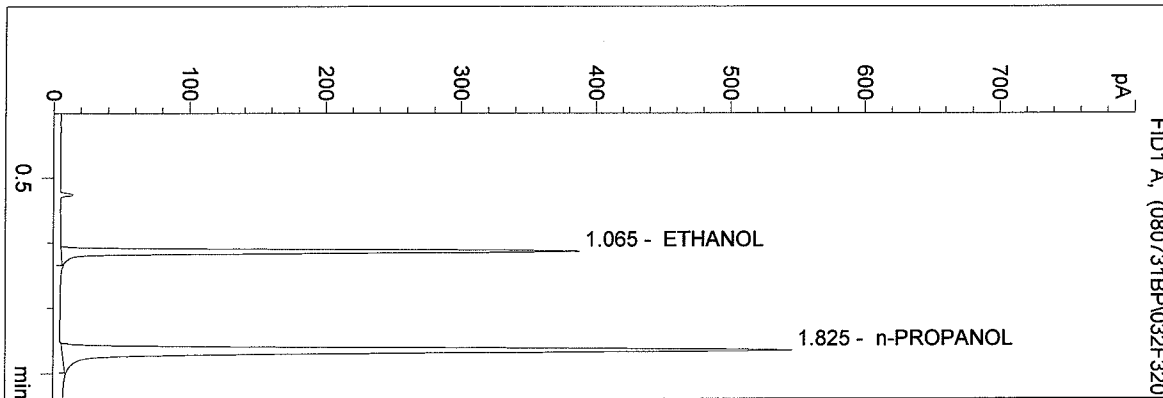
1.000 g/100ml

*BP*

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

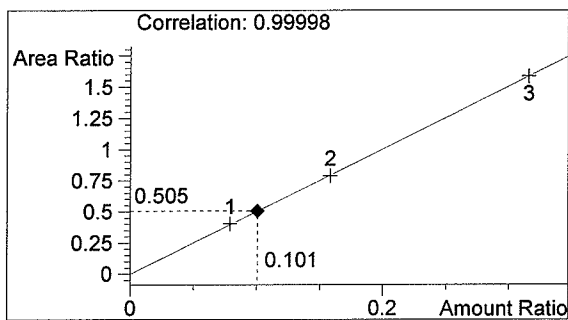
0.10 Ctrl-BP  
 Brianna Peterson

vial # 32



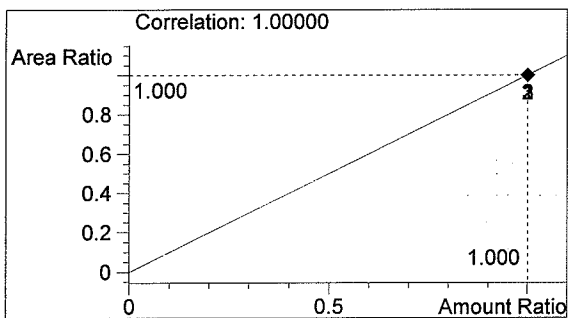
#	Compound	Area	RT
1	ETHANOL	763	1.065
2	n-PROPANOL	1511	1.825

Totals:



ETHANOL

0.101 g/100ml



n-PROPANOL

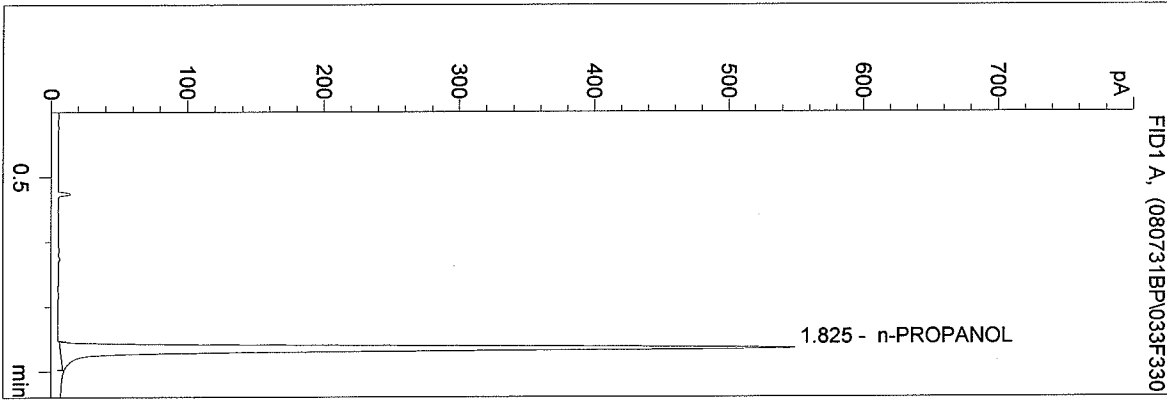
1.000 g/100ml

bf

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 Instrument 3  
 db-alc2

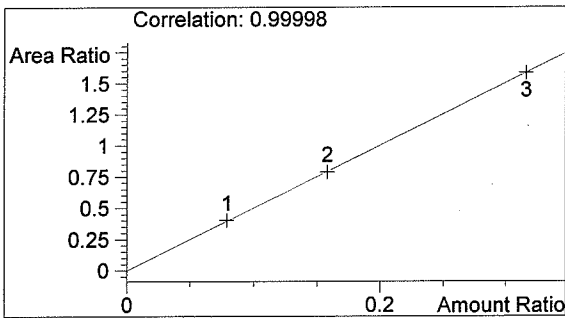
BLANK  
 Brianna Peterson

vial # 33



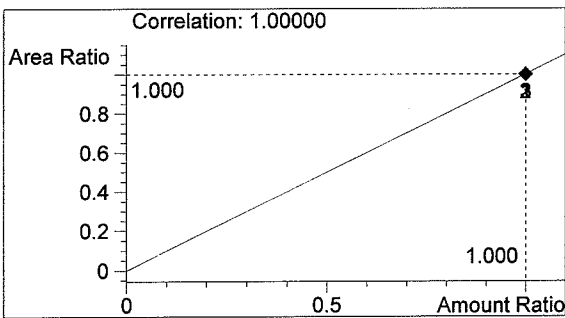
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1523	1.825

Totals:



ETHANOL

0.000 g/100ml



n-PROPANOL

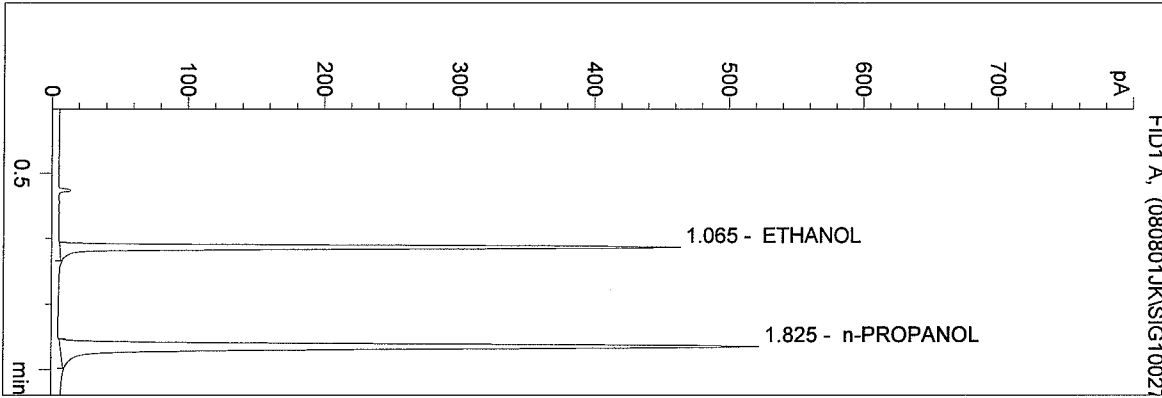
1.000 g/100ml

BP

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/1/2008 3:17:41 PM  
 Instrument 3  
 db-alc2

QA08038-1  
 Justin Knoy

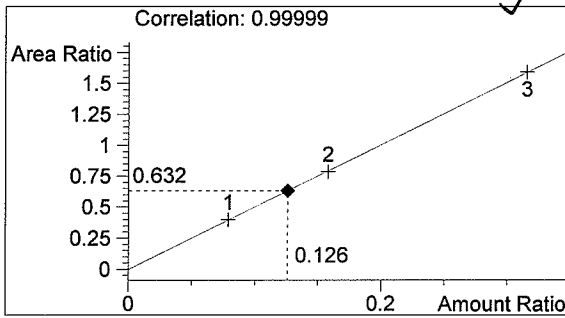
vial # 27



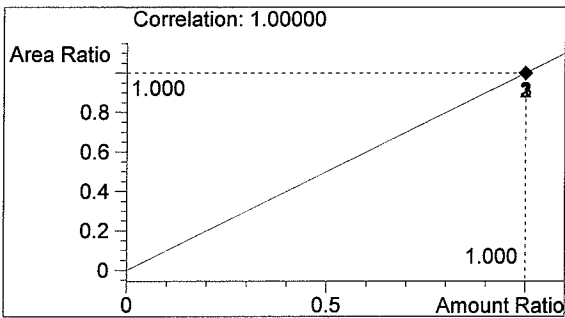
#	Compound	Area	RT
1	ETHANOL	918	1.065
2	n-PROPANOL	1453	1.825

Totals:

Calibration w/  
 QA 08036



0.126 g/100ml



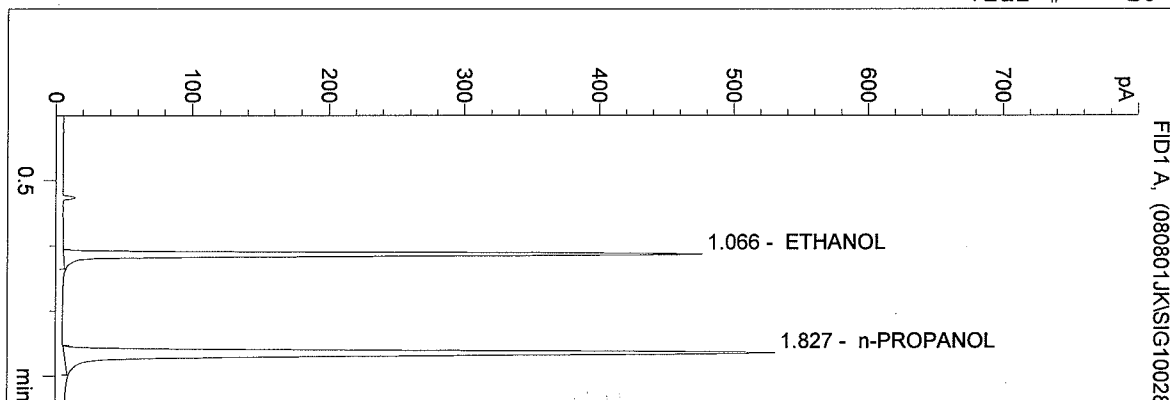
1.000 g/100ml

JK

C:\HPCHEM\2\METHODS\BLDALCO3.M  
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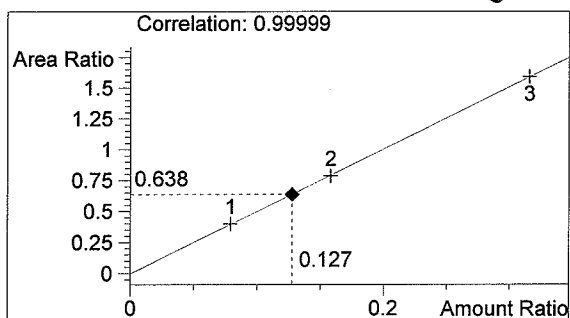
QA08038-2  
 Justin Knoy

vial # 28



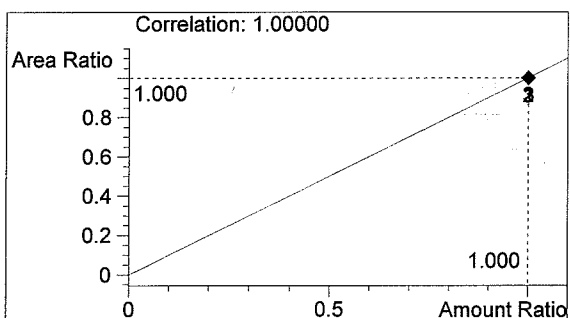
#	Compound	Area	RT
1	ETHANOL	941	1.066
2	n-PROPANOL	1474	1.827

Totals:



ETHANOL

0.127 g/100ml



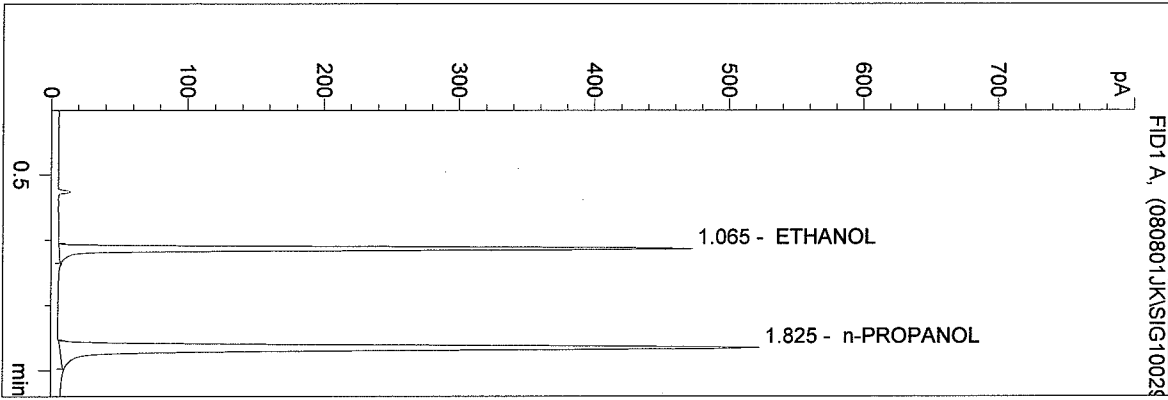
n-PROPANOL

1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/1/2008 3:23:55 PM  
 Instrument 3  
 db-alc2

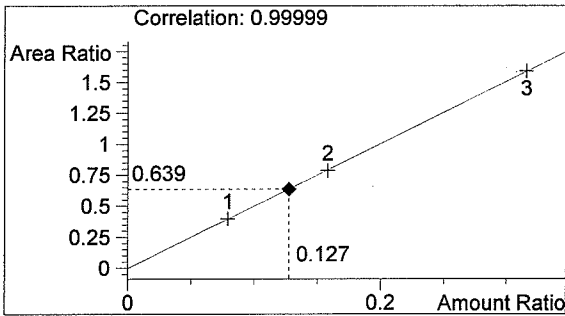
QA08038-3  
 Justin Knoy

vial # 29



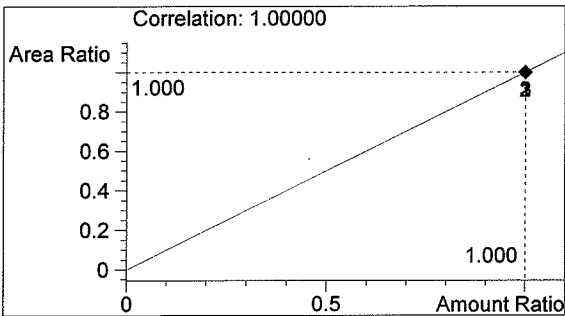
#	Compound	Area	RT
1	ETHANOL	924	1.065
2	n-PROPANOL	1446	1.825

Totals:



ETHANOL

0.127 g/100ml



n-PROPANOL

1.000 g/100ml

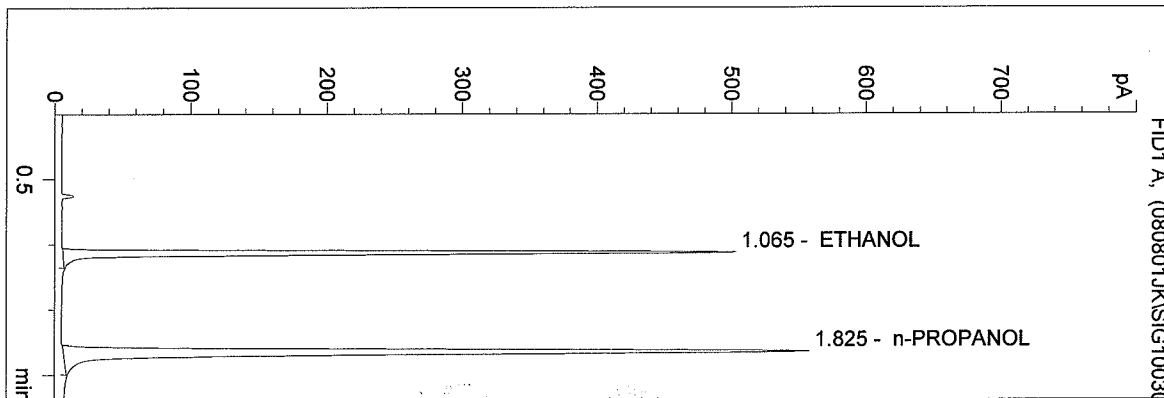
*JK*



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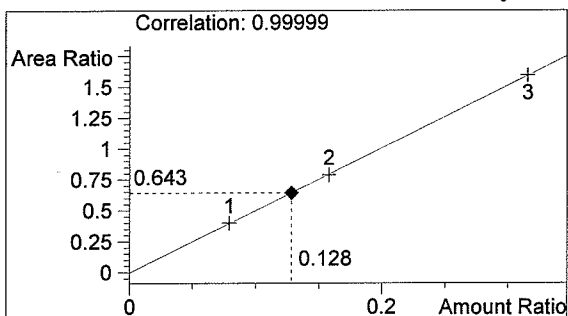
QA08038-4  
 Justin Knoy

vial # 30



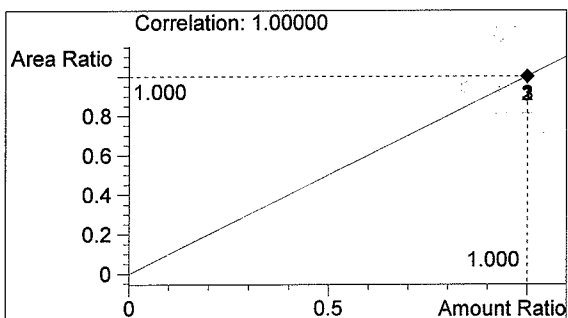
#	Compound	Area	RT
1	ETHANOL	996	1.065
2	n-PROPANOL	1548	1.825

Totals:



ETHANOL

0.128 g/100ml



n-PROPANOL

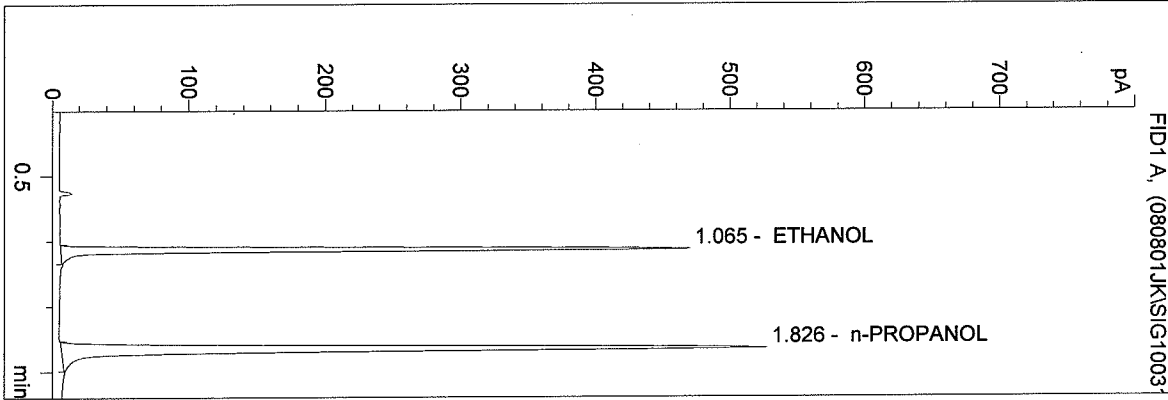
1.000 g/100ml

*AK*

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 Instrument 3  
 db-alc2

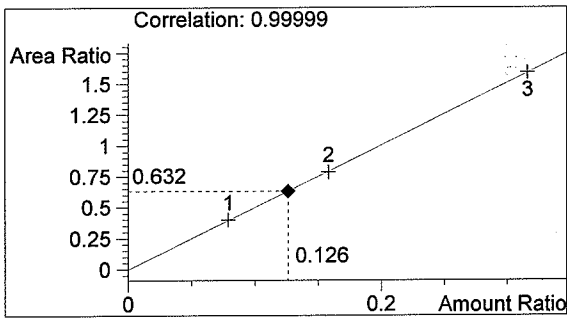
QA08038-5  
 Justin Knoy

vial # 31



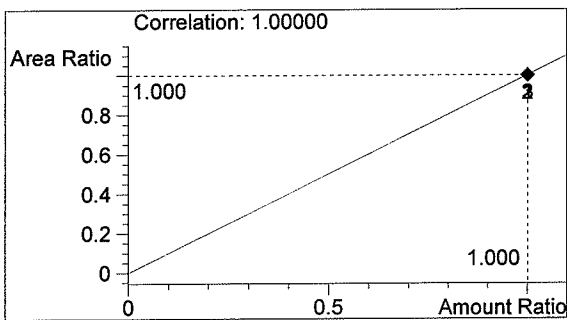
#	Compound	Area	RT
1	ETHANOL	927	1.065
2	n-PROPANOL	1465	1.826

Totals:



ETHANOL

0.126 g/100ml



n-PROPANOL

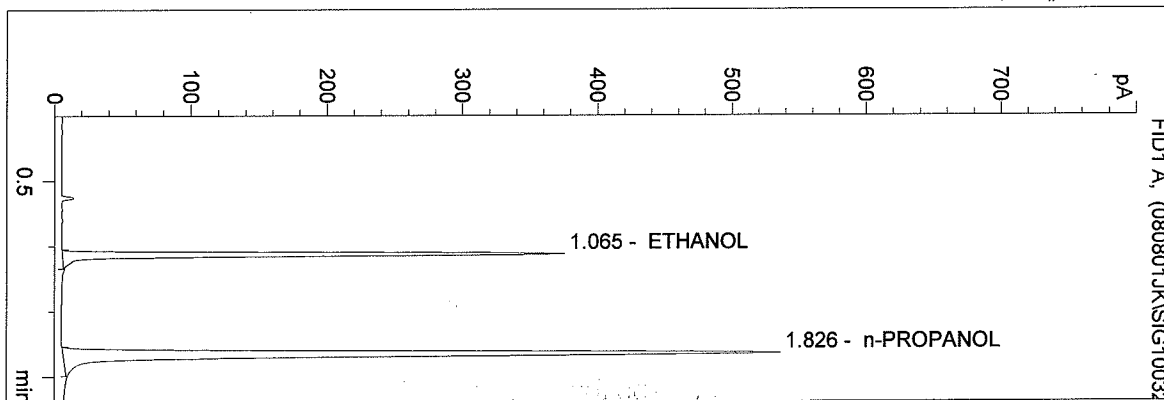
1.000 g/100ml

*R*

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 Instrument 3  
 db-alc2

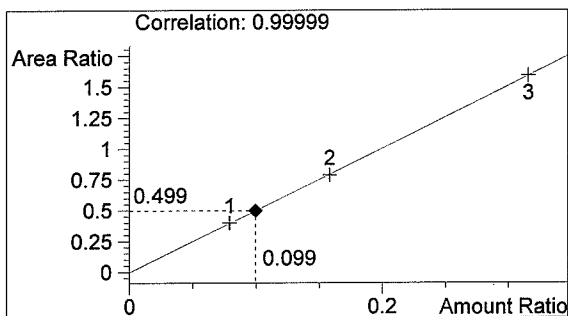
0.10 CTRL JK  
 Justin Knoy

vial # 32



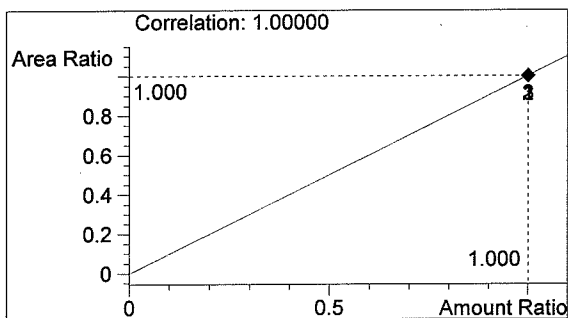
#	Compound	Area	RT
1	ETHANOL	743	1.065
2	n-PROPANOL	1490	1.826

Totals:



ETHANOL

0.099 g/100ml



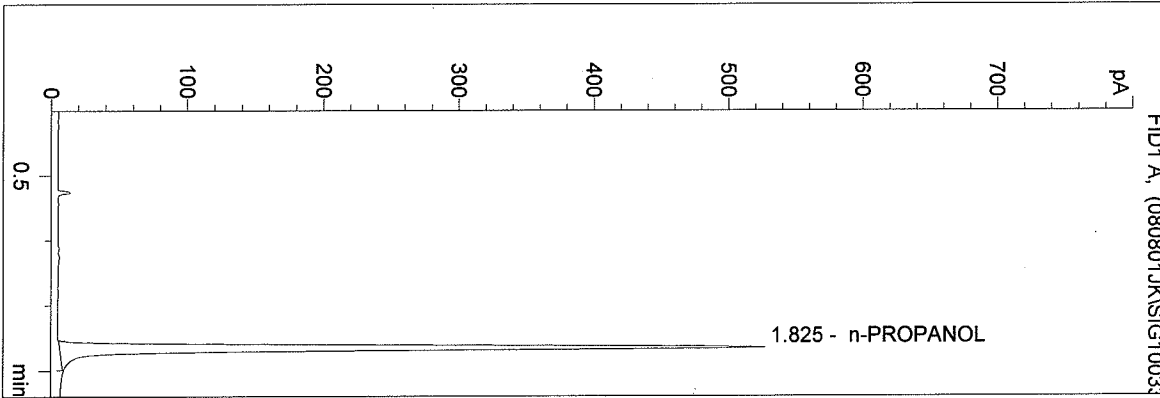
n-PROPANOL

1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/1/2008 3:36:23 PM  
 Instrument 3  
 db-alc2

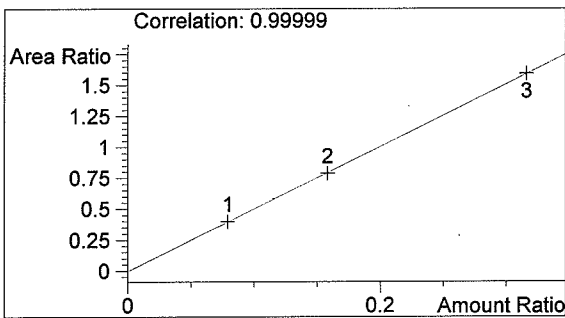
BLANK  
 Justin Knoy

vial # 33



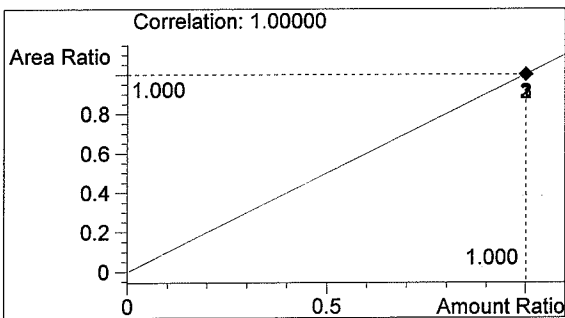
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1463	1.825

Totals:



ETHANOL

0.000 g/100ml



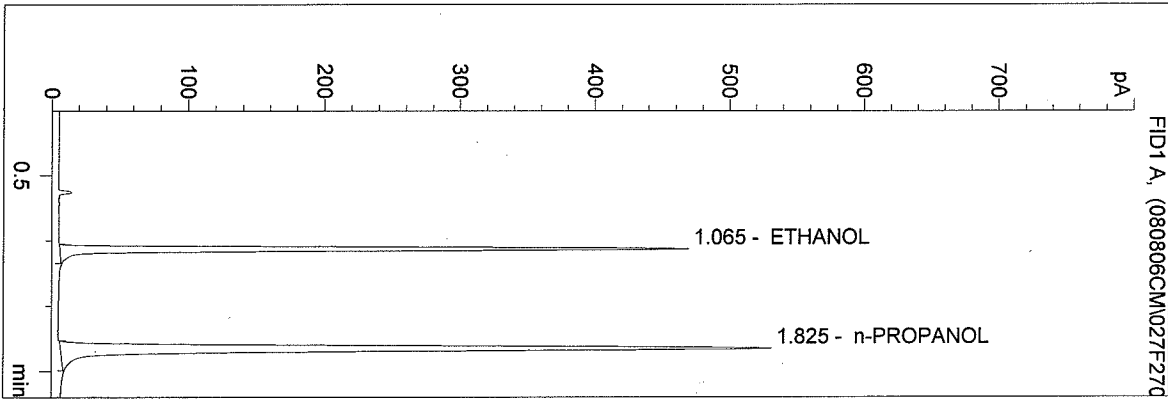
n-PROPANOL

1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 10:54:51 AM  
 Instrument 3  
 db-alc2

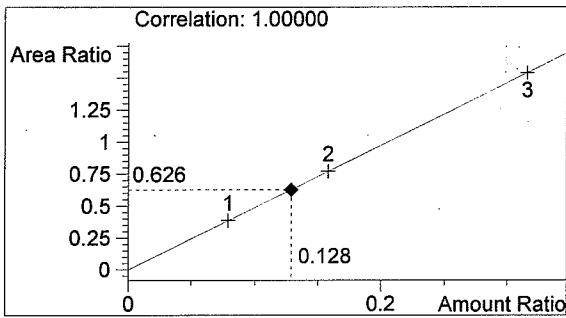
QA08038-1  
 Christie Mitchell

vial # 27



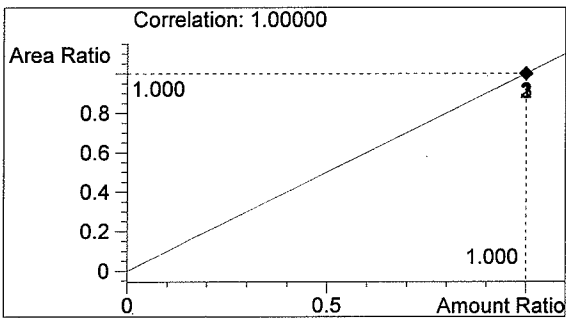
#	Compound	Area	RT
1	ETHANOL	924	1.065
2	n-PROPANOL	1476	1.825

Totals:



ETHANOL

0.128 g/100ml



n-PROPANOL

1.000 g/100ml

CM

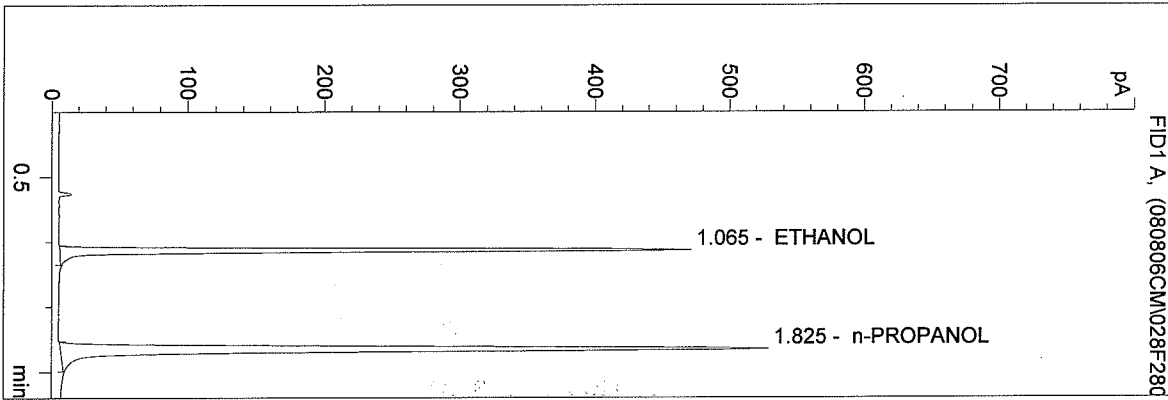
Calibration Data filed with QA08036

CM  
 8/6/2008

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 10:57:59 AM  
 Instrument 3  
 db-alc2

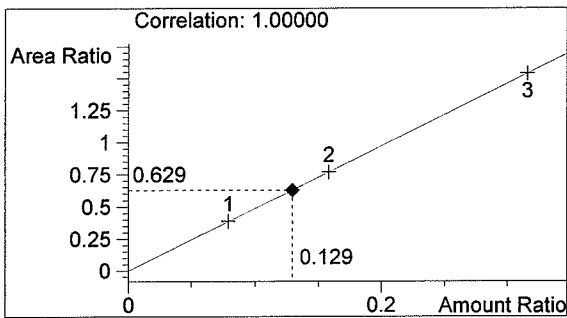
QA08038-2  
 Christie Mitchell

vial # 28



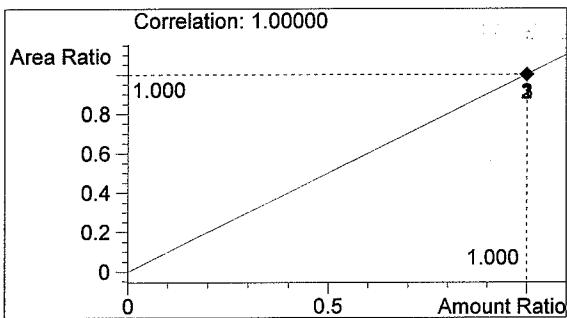
#	Compound	Area	RT
1	ETHANOL	923	1.065
2	n-PROPANOL	1467	1.825

Totals:



ETHANOL

0.129 g/100ml



n-PROPANOL

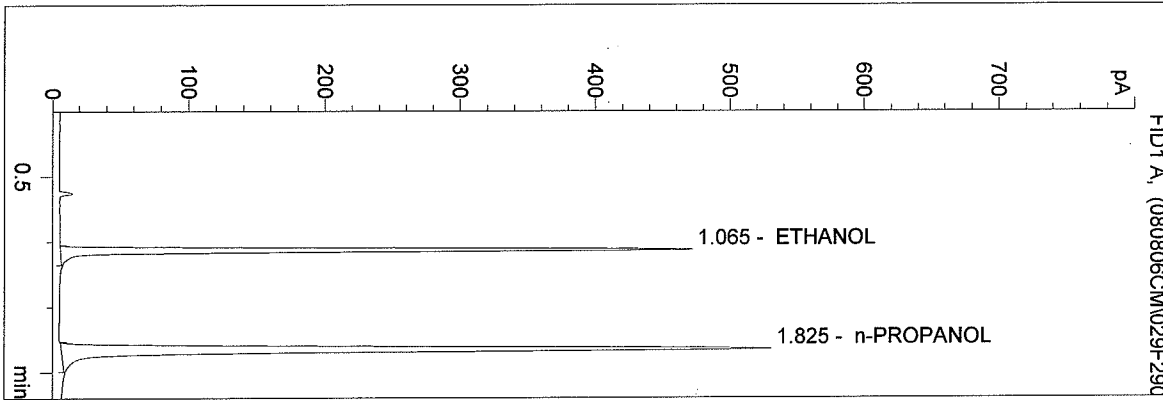
1.000 g/100ml

*CM*

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:01:06 AM  
 Instrument 3  
 db-alc2

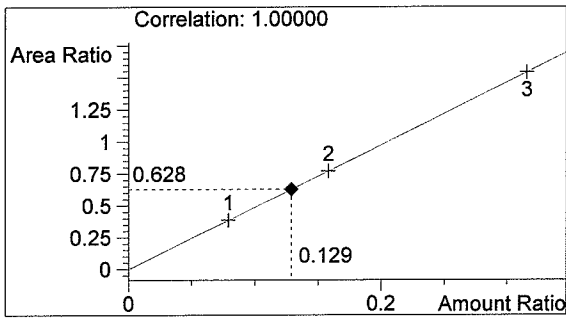
QA08038-3  
 Christie Mitchell

vial # 29



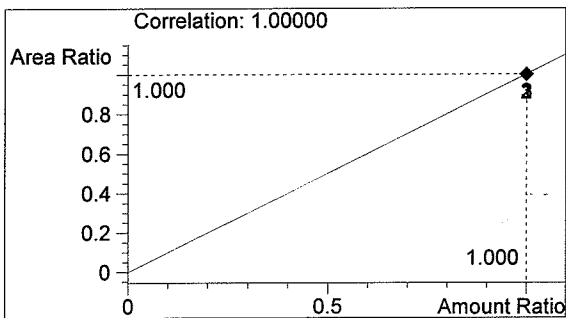
#	Compound	Area	RT
1	ETHANOL	925	1.065
2	n-PROPANOL	1472	1.825

Totals:



ETHANOL

0.129 g/100ml



n-PROPANOL

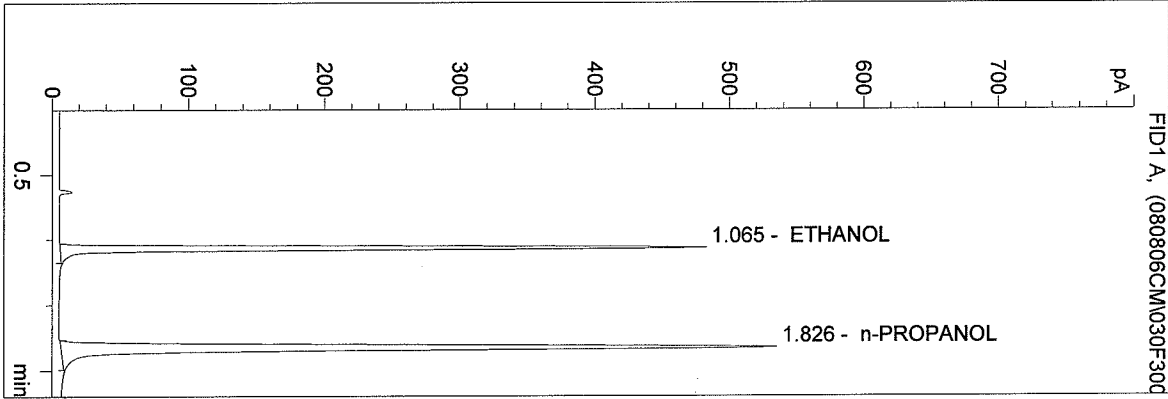
1.000 g/100ml

CM

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:04:13 AM  
 Instrument 3  
 db-alc2

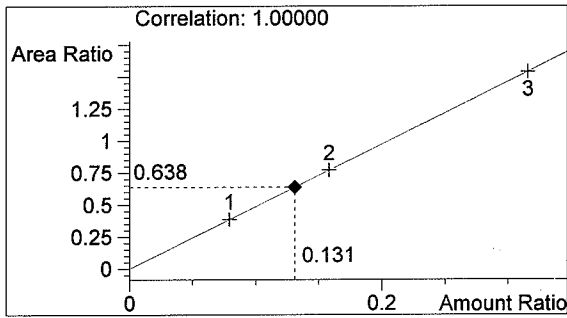
QA08038-4  
 Christie Mitchell

vial # 30

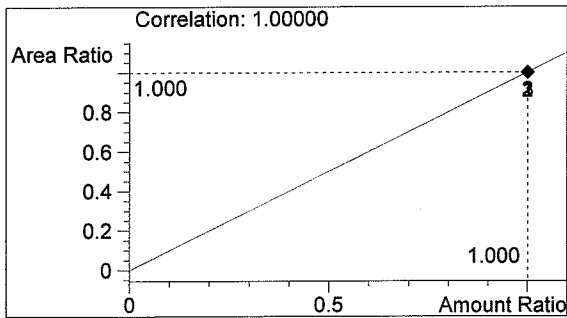


#	Compound	Area	RT
1	ETHANOL	949	1.065
2	n-PROPANOL	1488	1.826

Totals:



0.131 g/100ml



1.000 g/100ml

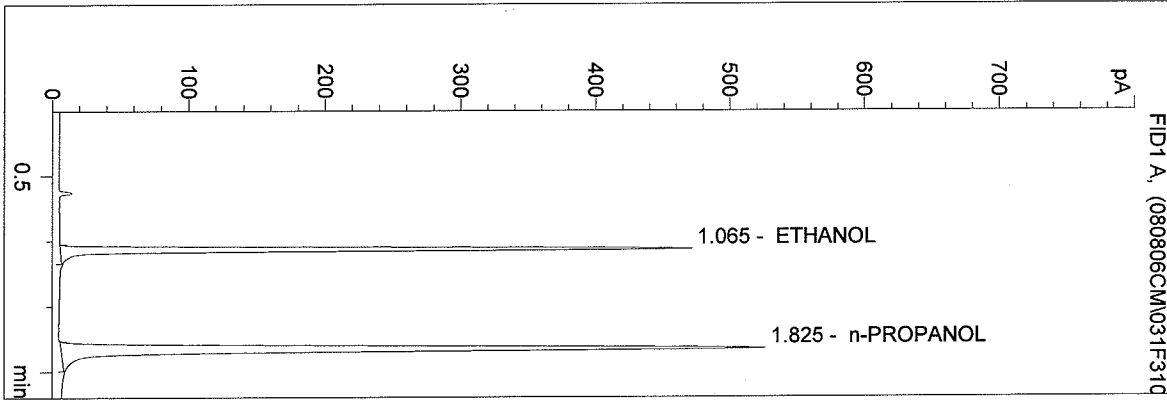
CM



C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:07:20 AM  
 Instrument 3  
 db-alc2

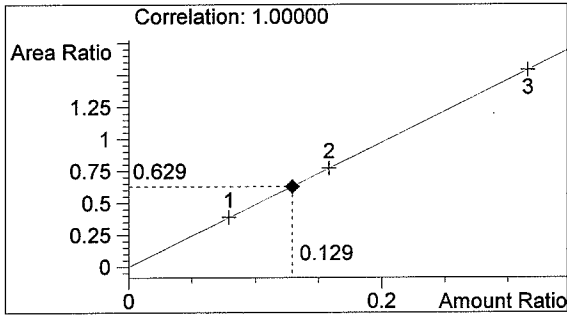
QA08038-5  
 Christie Mitchell

vial # 31

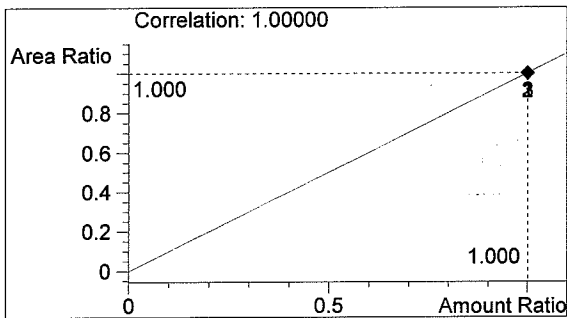


#	Compound	Area	RT
1	ETHANOL	916	1.065
2	n-PROPANOL	1457	1.825

Totals:



0.129 g/100ml



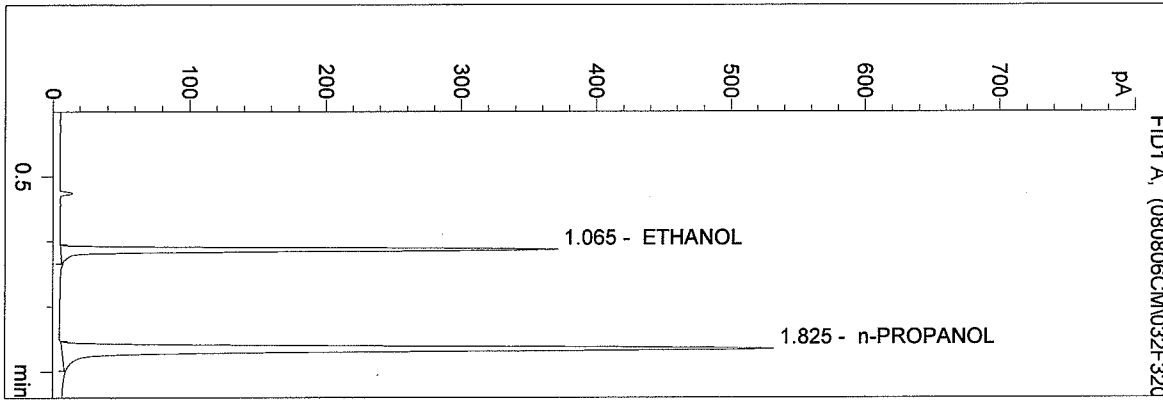
1.000 g/100ml

CM

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:10:27 AM  
 Instrument 3  
 db-alc2

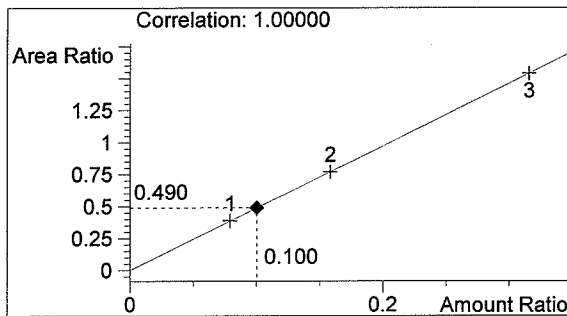
0.10 Ctrl-CM  
 Christie Mitchell

vial # 32



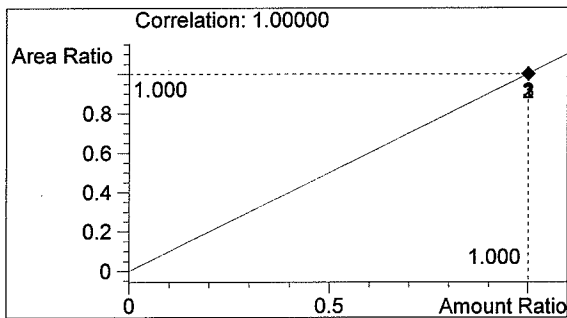
#	Compound	Area	RT
1	ETHANOL	722	1.065
2	n-PROPANOL	1475	1.825

Totals:



ETHANOL

0.100 g/100ml



n-PROPANOL

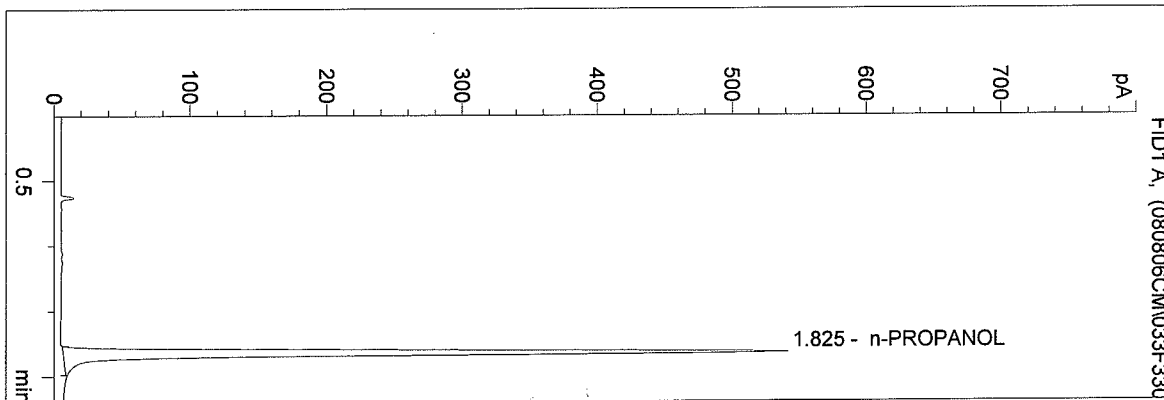
1.000 g/100ml

*CM*

C:\HPCHEM\2\METHODS\BLDALCO3.M  
 8/6/2008 11:13:35 AM  
 Instrument 3  
 db-alc2

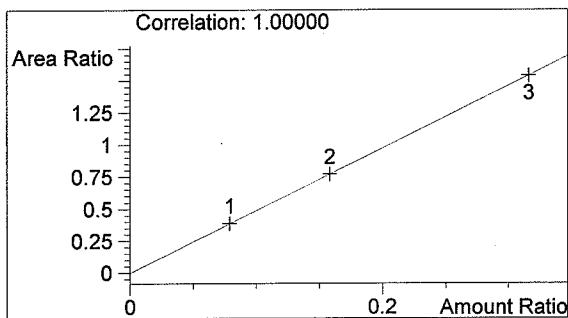
BLANK  
 Christie Mitchell

vial # 33



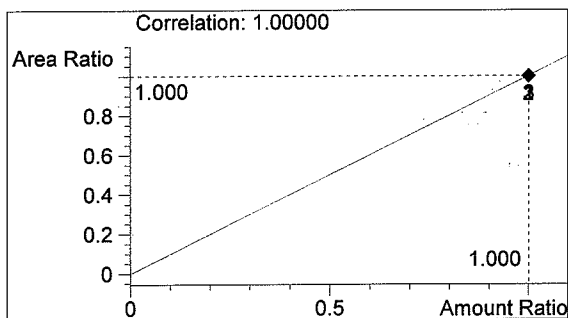
#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1500	1.825

Totals:



ETHANOL

0.000 g/100ml



n-PROPANOL

1.000 g/100ml

CM