

# WASHINGTON STATE TOXICOLOGY LABORATORY SIMULATOR SOLUTION DATA ENTRY REVIEW



Reviewer/s: KEN DENTON / RJA GULLBERG Date: 12-28-2007  
 Location: TOX LAB SEATTLE Solution Batch Number: D1040

	YES	NO	N/A
Preparation date precedes all analysis dates:	<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 type="checkbox"/>	<input checked="" 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"/>
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"/>

Comments:  
STANDARD DEVIATION NOT RECORDED

Reviewer Signature: RJA Gullberg Date: 12-28-2007  
 Reviewer Signature: KL [Signature] Date: 12-28-2007

**WASHINGTON STATE TOXICOLOGY LABORATORY**  
**FORENSIC LABORATORY SERVICES BUREAU**  
 WASHINGTON STATE PATROL  
 2203 AIRPORT WAY S, SUITE 360  
 SEATTLE, WASHINGTON 98134-2027  
 (206) 464-5435 FAX (206) 389-2738

Preparation and certification of **0.10 g/210L Quality Assurance solution**

Batch number **01040**

Date: 11/26/2001

Preparation: 28.9 mL of absolute ethyl alcohol diluted to 18 Liters with water

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

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal 10	Anal 11	Anal 12
1	0.127	0.126	0.127									
2	0.127	0.127	0.127									
3	0.127	0.128	0.126									
4	0.127	0.127	0.126									
5	0.127	0.127	0.126									
Ctrl	0.102	0.101	0.099									

**CAP Control:**

Lot #: 8180 Exp date: 6/22/02  
 Target concentration: 0.101 g/100mL

**Statistics:**

Avg. solution concent.: 0.1268 g/100 mL  
 SD: 0.00056  
 Range (3xSD): 0.1251 to 0.1285  
 Precision CV (%): 0.4421 %

*RAE  
12-28-01*

**Equivalent vapor concent.:** 0.1031 g/210L

Analyst	Name	Signature	Date
1	Eugene Schwilke	<i>Eugene Schwilke</i>	11/29/01
2	Estuardo J. Miranda	<i>Estuardo J. Miranda</i>	11/28/01
3	Melissa Pemberton	<i>Melissa Pemberton</i>	11/30/01
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Eugene Schwilke *Eugene Schwilke* according to the approved protocol



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION


I, Eugene W. Schwilke, 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 BAC Verifier Data Master breath testing instrument.

I possess the following qualifications: BS degree in Biology and one year of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 01040 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1268 grams per 100ml.

Dated: 12/7/01  
Seattle, WA

  
Eugene W. Schwilke  
Forensic Toxicologist

GS/nf  
GSQA



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION

I, Estuardo J. Miranda, do certify under penalty of perjury as follows:

I am employed by the Washington State Toxicology Laboratory; and a part of my responsibilities includes preparing and testing the alcohol solutions for the BAC Verifier Data Master breath testing instrument.

I possess the following qualifications: Bachelor of Science in Chemistry, Master of Science in Zoology, seven years experience in biochemical research and three years experience in Forensic Toxicology.

The quality assurance solution, Lot Number 01040 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of alcohol was 0.1268 grams per 100mL.

Dated: 12/7/01  
Seattle, WA

Estuardo J. Miranda  
Forensic Toxicologist

EM/nf  
EMQA

A review of solution batch records was recently completed. After this review, I checked the file for this solution and reviewed all changes that were made. I found that the solution still conformed to those standards established by the State Toxicologist for the certification of simulator solutions.



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION  
CERTIFICATION

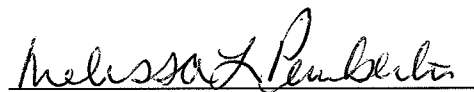
I, Melissa L. Pemberton, do certify under penalty of perjury that:

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

I possess the following qualifications: Bachelors degree in Microbiology and ten years of experience as a forensic toxicologist.


The simulator solution, Lot Number 01040 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1268 grams per 100ml.

Dated: 12/7/01  
Seattle, WA

  
Melissa L. Pemberton  
Forensic Toxicologist

MP/nf  
MPQA

A review of solution batch records was recently completed. After this review, I checked the file for this solution and reviewed all changes that were made. I found that the solution still conformed to those standards established by the State Toxicologist for the certification of simulator solutions.

  
1-15-08



Sequence Parameters:

Operator: GENE SCHWILKE  
Data File Naming: Auto  
Data Directory: C:\HPCHEM\2\DATA\  
Data Subdirectory: 112901G3  
Part of Methods to run: According to Runtime Checklist  
Barcode Reader: not used  
Shutdown Cmd/Macro: none  
Sequence Comment:

Sequence Table (Front Injector):

Vial Information Part:

Line	Vial	Vial Information
====	====	=====
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	
9	9	
10	10	
11	11	
12	12	
13	13	
14	14	
15	15	
16	16	

Line	Vial	Vial Information
17	17	
18	18	
19	19	
20	20	
21	21	
22	22	
23	23	
24	24	
25	25	

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	BLANK	BLDALCO2	1	Sample		
2	2	0.079 CAL	BLDALCO2	1	Calib		
3	3	0.158 CAL	BLDALCO2	1	Calib		
4	4	0.316 CAL	BLDALCO2	1	Calib		
5	5	CAP 0.101	BLDALCO2	1	Ctrl Samp		
6	6	BLANK	BLDALCO2	1	Sample		
7	7	QA01039 0.08SOL	BLDALCO2	1	Sample		
8	8	QA01039 0.08SOL	BLDALCO2	1	Sample		
9	9	QA01039 0.08SOL	BLDALCO2	1	Sample		
10	10	QA01039 0.08SOL	BLDALCO2	1	Sample		
11	11	QA01039 0.08SOL	BLDALCO2	1	Sample		
12	12	CAP 0.101	BLDALCO2	1	Ctrl Samp		
13	13	BLANK	BLDALCO2	1	Sample		
14	14	QA01040 0.10SOL	BLDALCO2	1	Sample		
15	15	QA01040 0.10SOL	BLDALCO2	1	Sample		
16	16	QA01040 0.10SOL	BLDALCO2	1	Sample		
17	17	QA01040 0.10SOL	BLDALCO2	1	Sample		
18	18	QA01040 0.10SOL	BLDALCO2	1	Sample		
19	19	CAP 0.101	BLDALCO2	1	Ctrl Samp		
20	20	BLANK	BLDALCO2	1	Sample		
21	21	QA01041 0.15SOL	BLDALCO2	1	Sample		
22	22	QA01041 0.15SOL	BLDALCO2	1	Sample		
23	23	QA01041 0.15SOL	BLDALCO2	1	Sample		
24	24	QA01041 0.15SOL	BLDALCO2	1	Sample		
25	25	QA01041 0.15SOL	BLDALCO2	1	Sample		

Calibration Part:

Line	Vial	SampleName	Method	CalLev	Update	RF	Update	RT	Interval
2	2	0.079 CAL	BLDALCO2	1	Replace		Replace		

Line	Vial	SampleName	Method	CalLev	Update	RF	Update	RT	Interval
3	3	0.158 CAL	BLDALCO2	2	Replace		Average		
4	4	0.316 CAL	BLDALCO2	3	Replace		Average		

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	1	BLANK				
2	2	0.079 CAL				
3	3	0.158 CAL				
4	4	0.316 CAL				
5	5	CAP 0.101				
6	6	BLANK				
7	7	QA01039	0.08SOL			
8	8	QA01039	0.08SOL			
9	9	QA01039	0.08SOL			
10	10	QA01039	0.08SOL			
11	11	QA01039	0.08SOL			
12	12	CAP 0.101				
13	13	BLANK				
14	14	QA01040	0.10SOL			
15	15	QA01040	0.10SOL			
16	16	QA01040	0.10SOL			
17	17	QA01040	0.10SOL			
18	18	QA01040	0.10SOL			
19	19	CAP 0.101				
20	20	BLANK				
21	21	QA01041	0.15SOL			
22	22	QA01041	0.15SOL			
23	23	QA01041	0.15SOL			
24	24	QA01041	0.15SOL			
25	25	QA01041	0.15SOL			

Sequence Table (Back Injector):

No entries - empty table!

Sequence Output Parameters:

Print Sequence Summary Report (SSR): No  
 Dest of individual reports for each run: as specified in Method

Sequence Summary Parameters:

One page header: No  
 Print Configuration: No  
 Print Sequence: No  
 Print Logbook: No



Sequence: C:\HPCHEM\2\SEQUENCE\GSMISC2.S

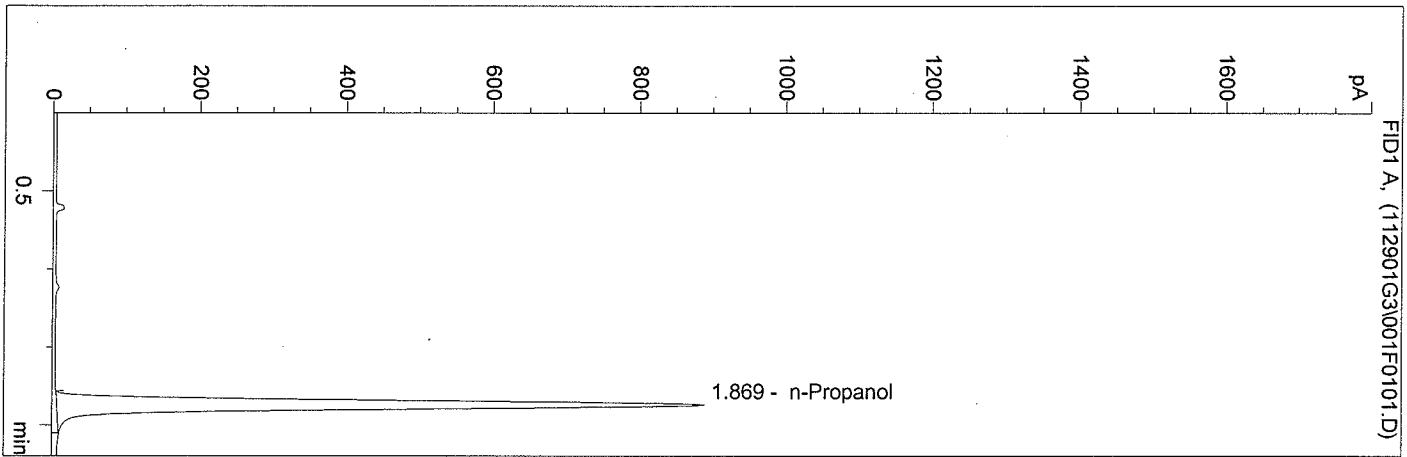
Print Method(s):	No
Print Analysis reports:	No
Print Statistics for Calib. runs:	No
Print Statistics for Sample runs:	No
Summary style:	Sample Summary

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/29/01 8:38:03 AM  
 Instrument 2

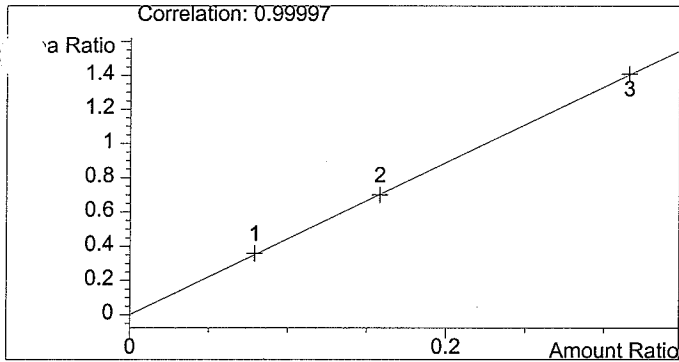
BLANK  
 GENE SCHWILKE

vial # 1

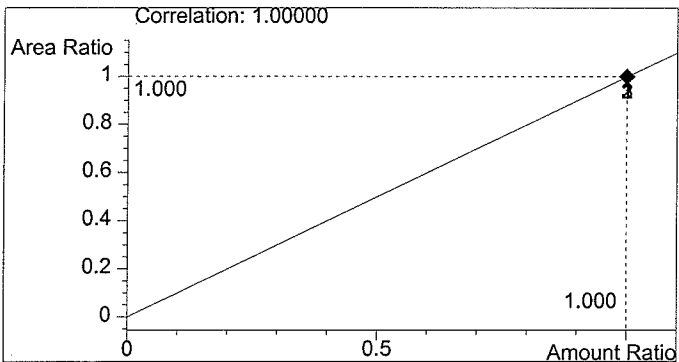


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3459	1.869

Totals:



Ethanol 0.000 g/100ml



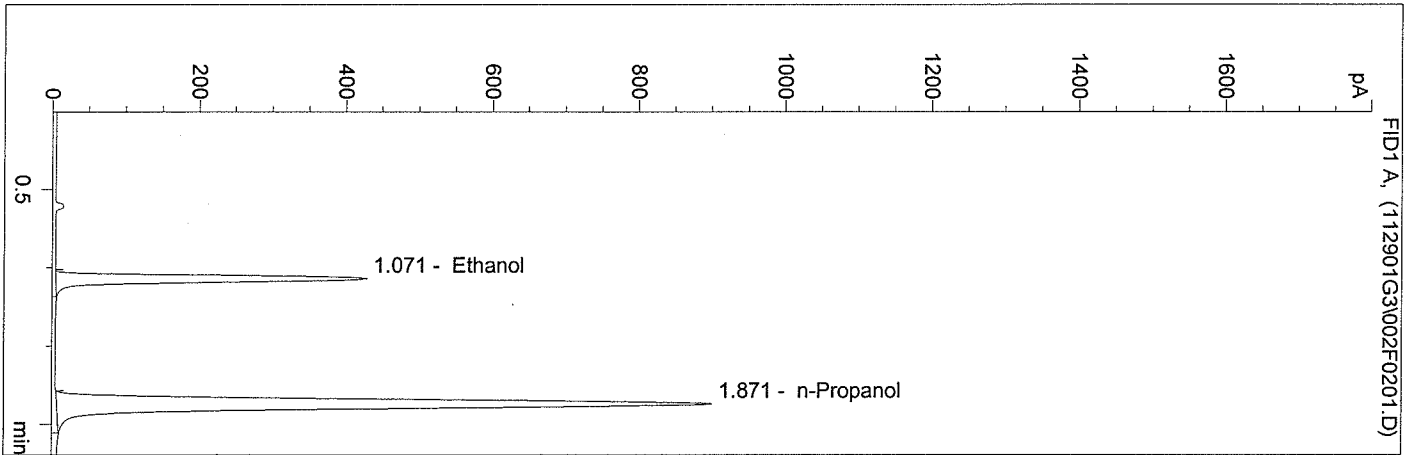
n-Propanol 1.000 g/100ml

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C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/29/01 8:41:04 AM  
 Instrument 2

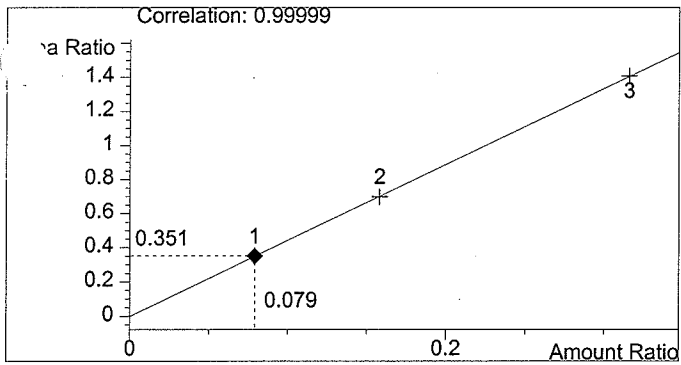
0.079 CAL  
 GENE SCHWILKE

vial # 2

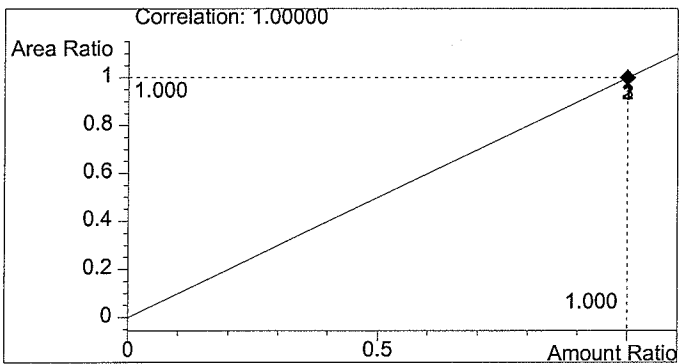


#	Compound	Area	RT
1	Ethanol	1236	1.071
2	n-Propanol	3519	1.871

Totals:



Ethanol 0.079 g/100ml



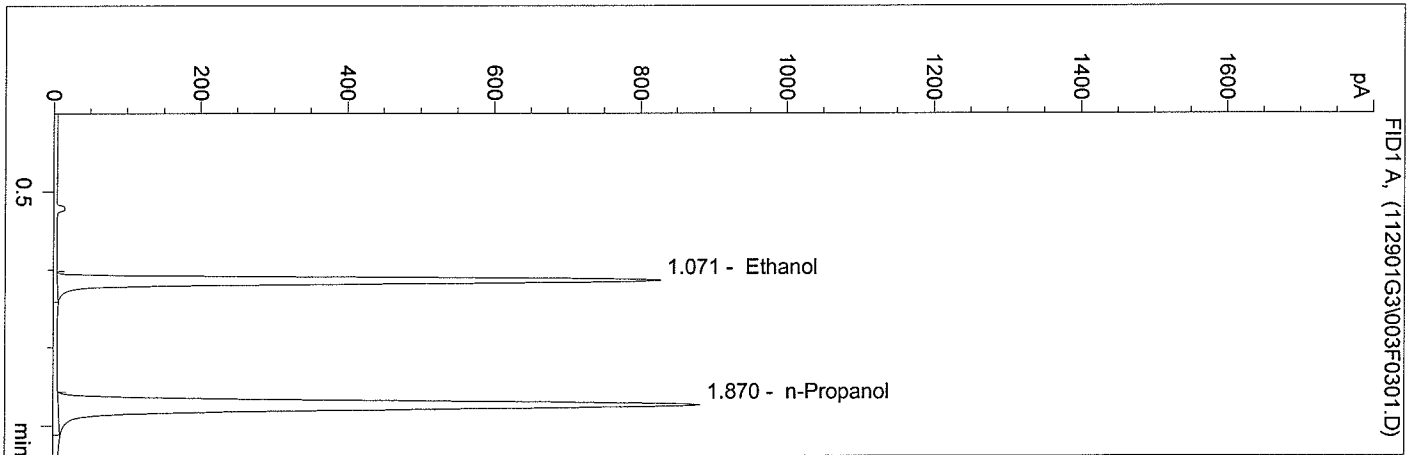
n-Propanol 1.000 g/100ml

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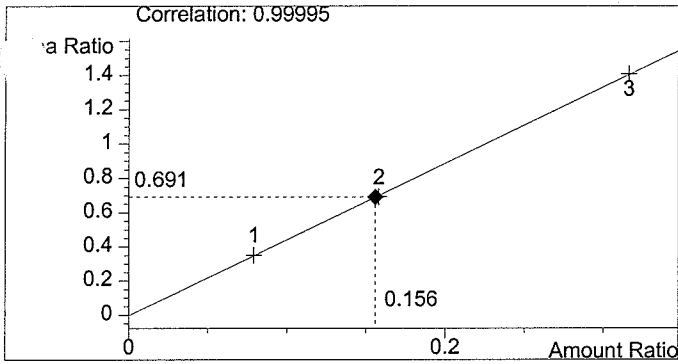
0.158 CAL  
 GENE SCHWILKE

vial # 3

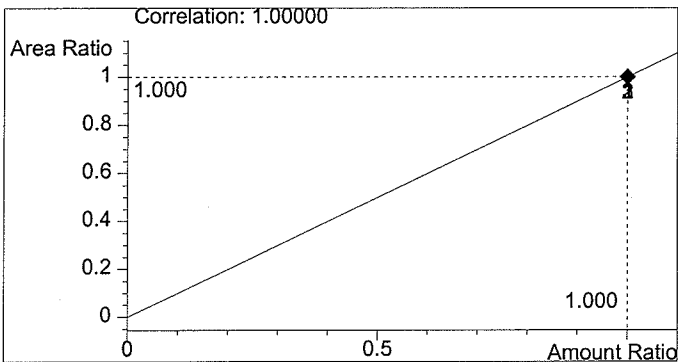


#	Compound	Area	RT
1	Ethanol	2368	1.071
2	n-Propanol	3427	1.870

Totals:



Ethanol 0.156 g/100ml



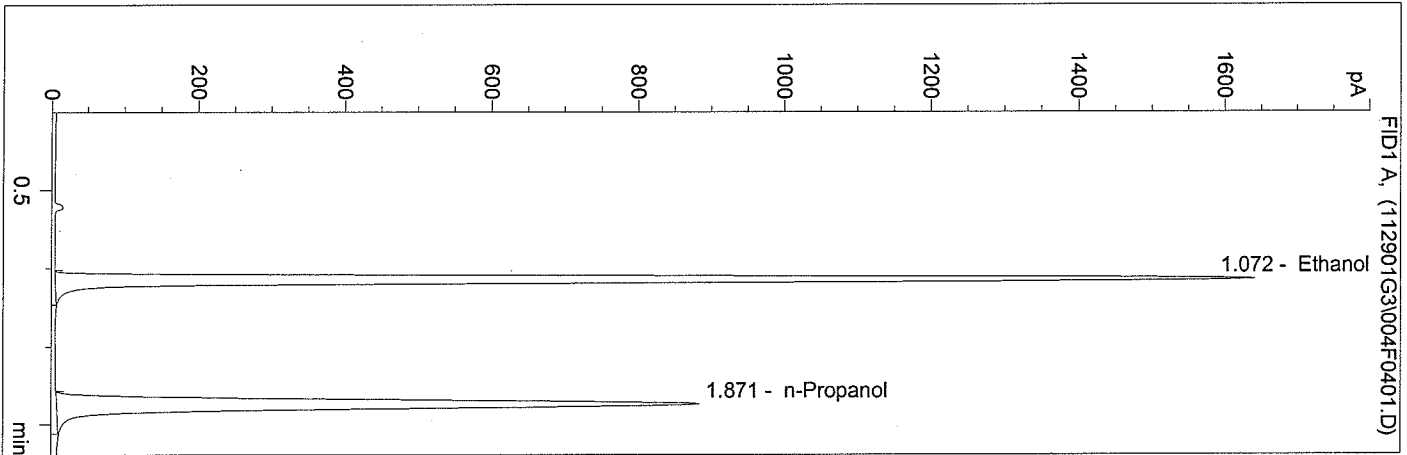
n-Propanol 1.000 g/100ml

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 Instrument 2

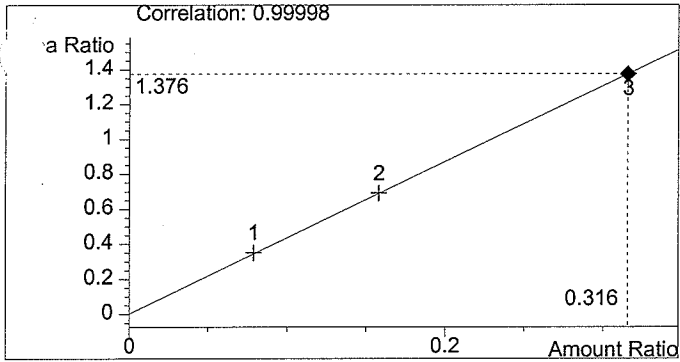
0.316 CAL  
 GENE SCHWILKE

vial # 4

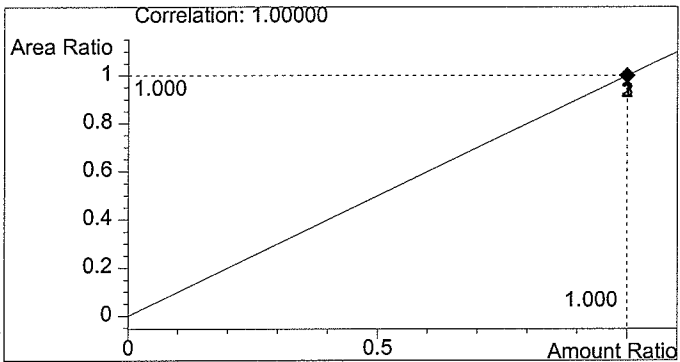


#	Compound	Area	RT
1	Ethanol	4742	1.072
2	n-Propanol	3447	1.871

Totals:



Ethanol 0.316 g/100ml

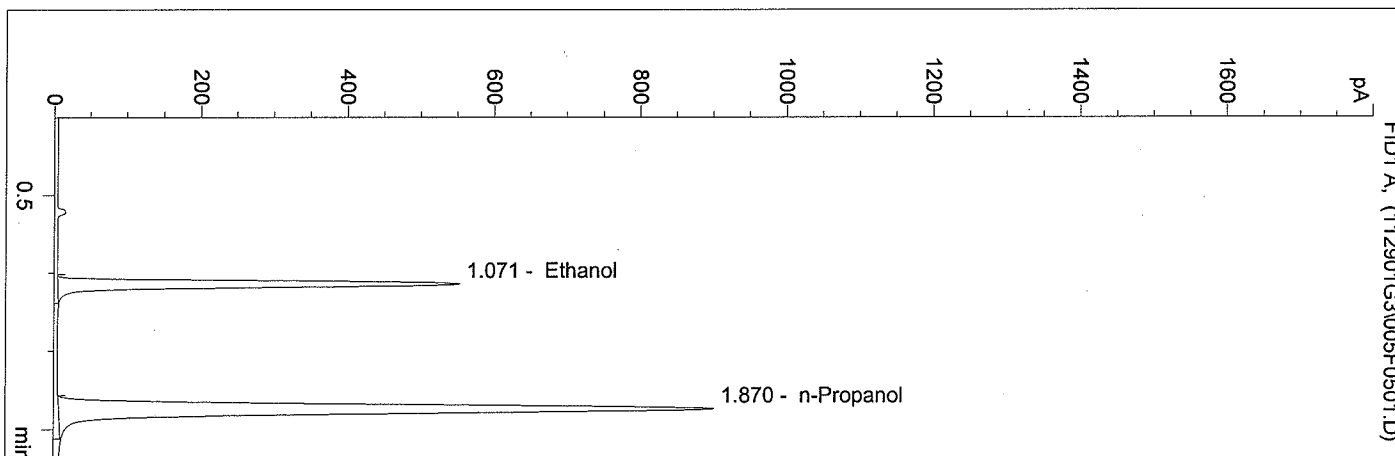


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
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 Instrument 2

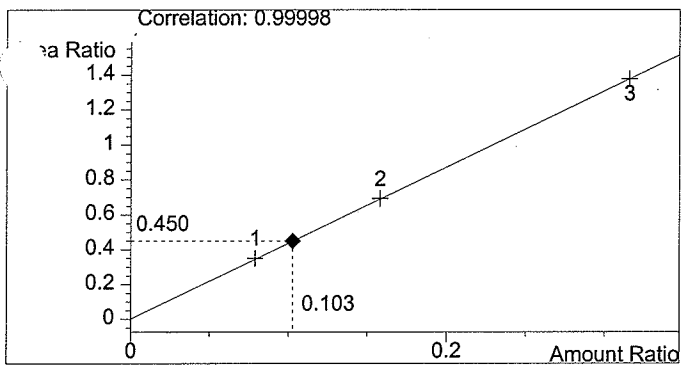
CAP 0.101  
 GENE SCHWILKE

vial # 5

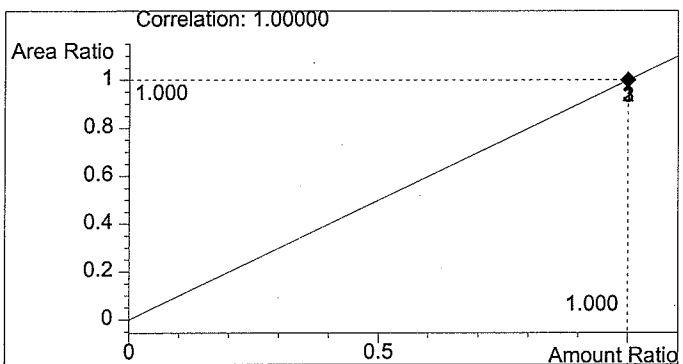


#	Compound	Area	RT
1	Ethanol	1584	1.071
2	n-Propanol	3520	1.870

Totals:



Ethanol 0.103 g/100ml



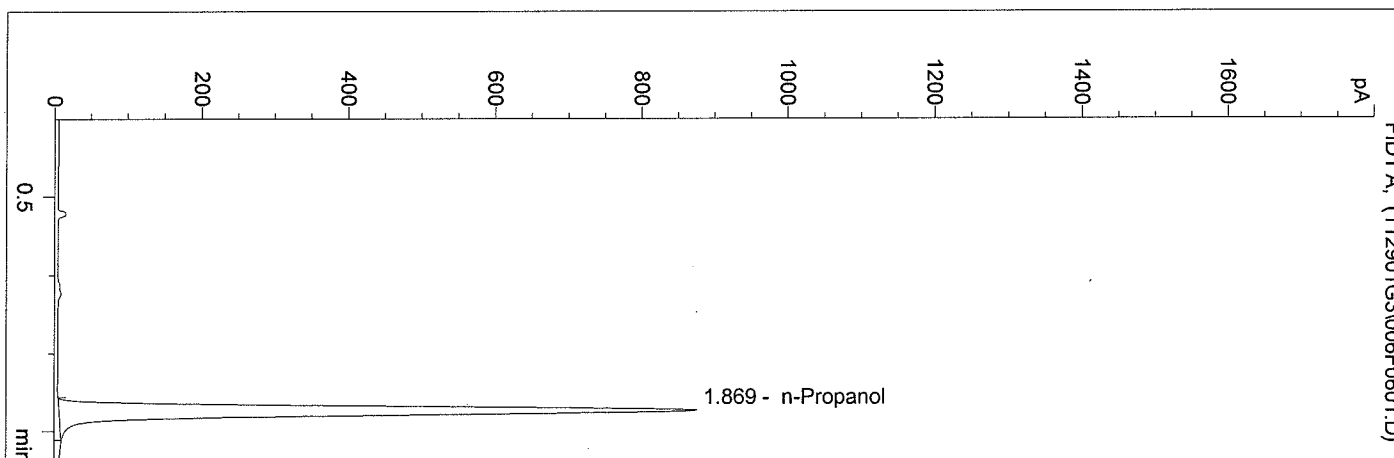
n-Propanol 1.000 g/100ml

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 Instrument 2

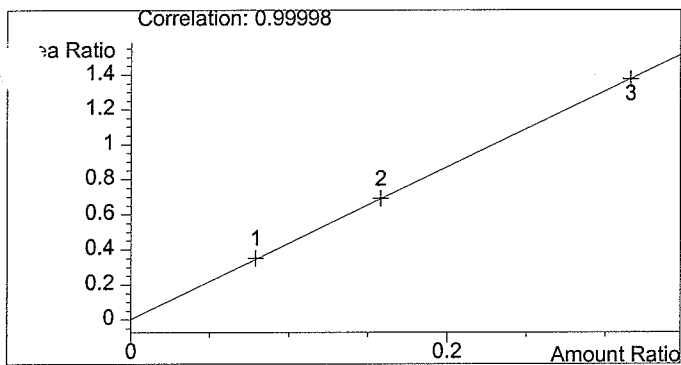
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 GENE SCHWILKE

vial # 6

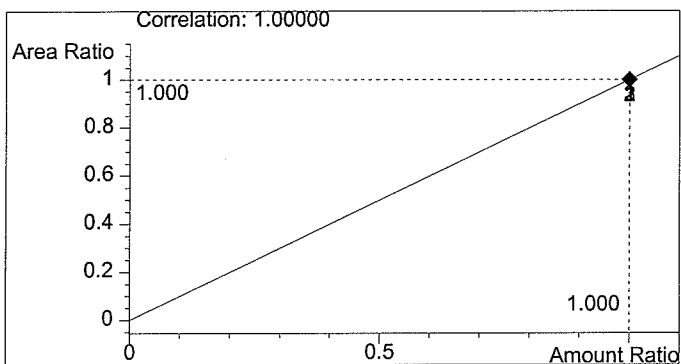


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3414	1.869

Totals:



Ethanol 0.000 g/100ml



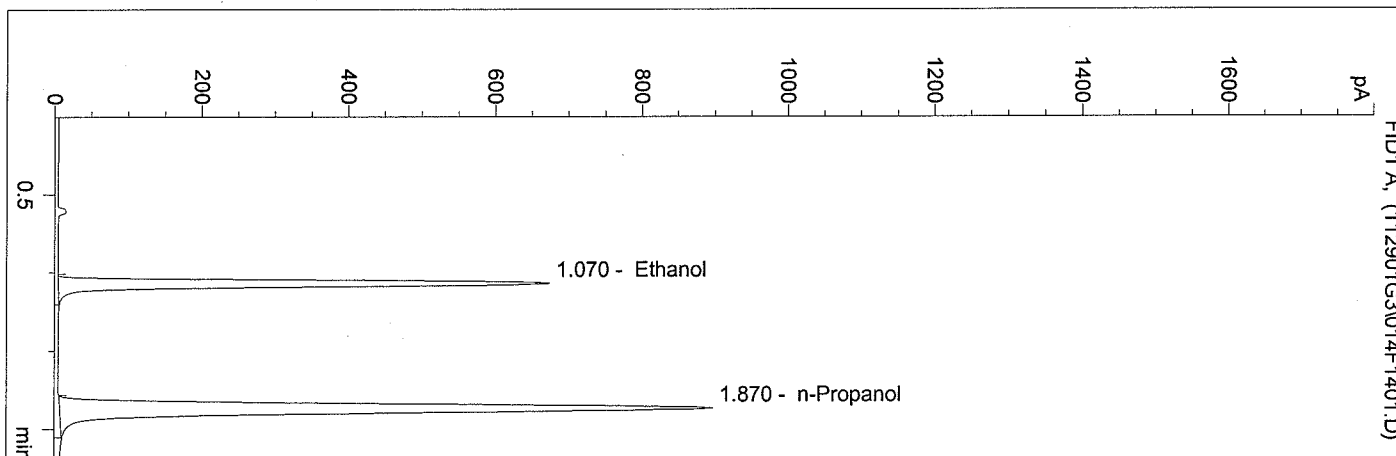
n-Propanol 1.000 g/100ml

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 Instrument 2

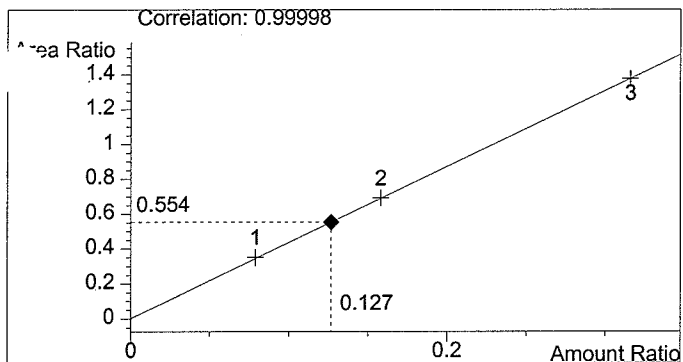
QA01040 0.10SOL  
 GENE SCHWILKE

vial # 14

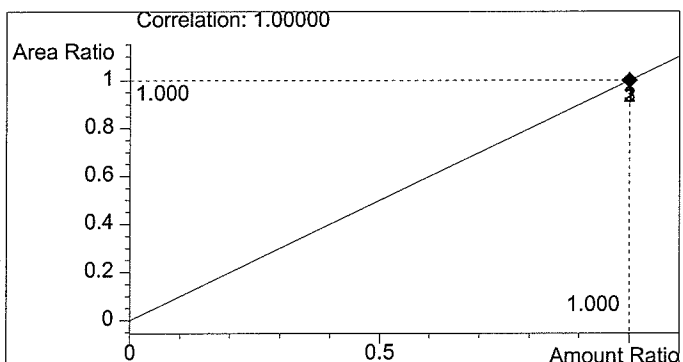


#	Compound	Area	RT
1	Ethanol	1939	1.070
2	n-Propanol	3500	1.870

Totals:



Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

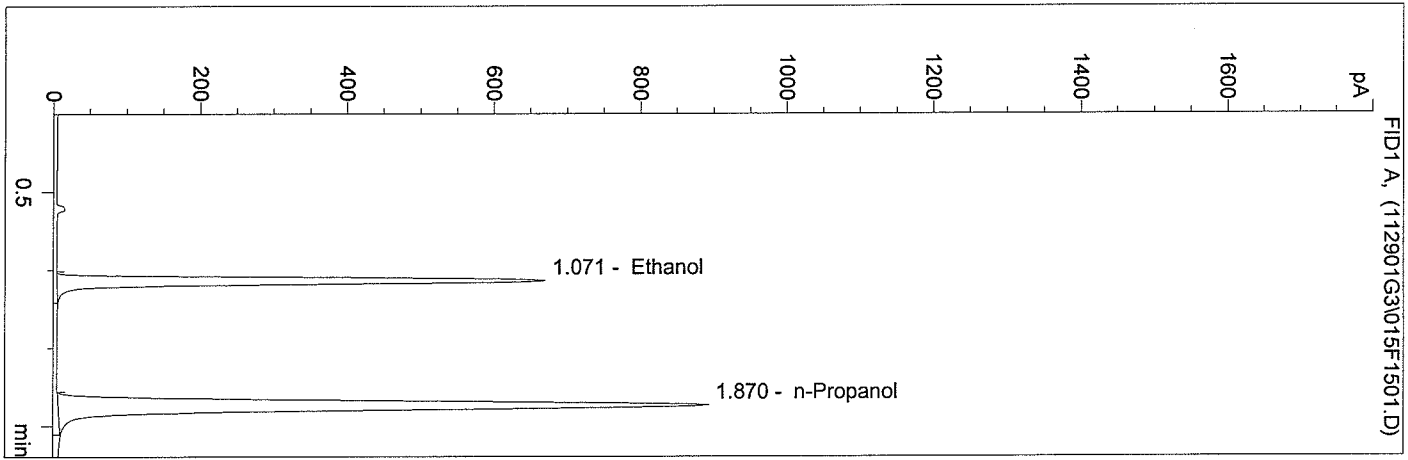


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 Instrument 2

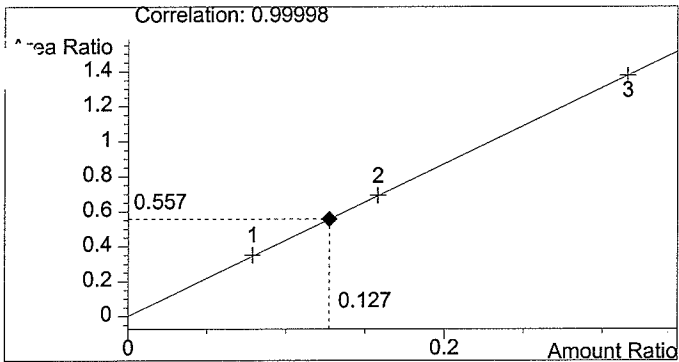
QA01040 0.10SOL  
 GENE SCHWILKE

vial # 15

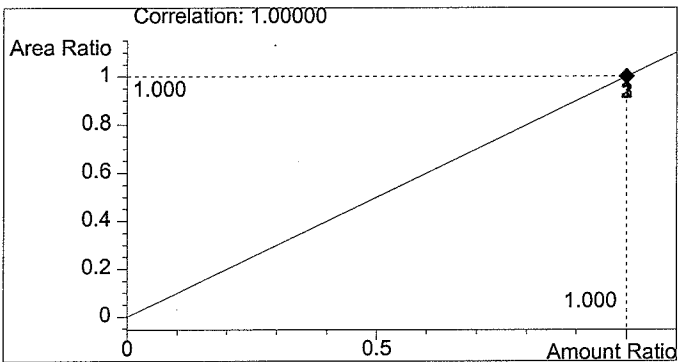


#	Compound	Area	RT
1	Ethanol	1950	1.071
2	n-Propanol	3503	1.870

Totals:



Ethanol 0.127 g/100ml



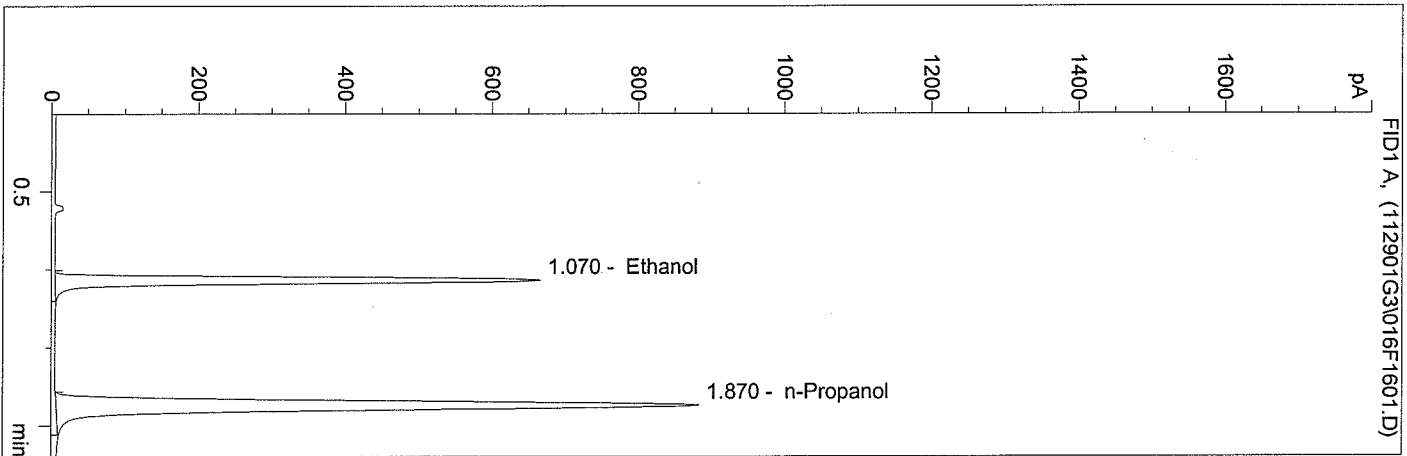
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 2

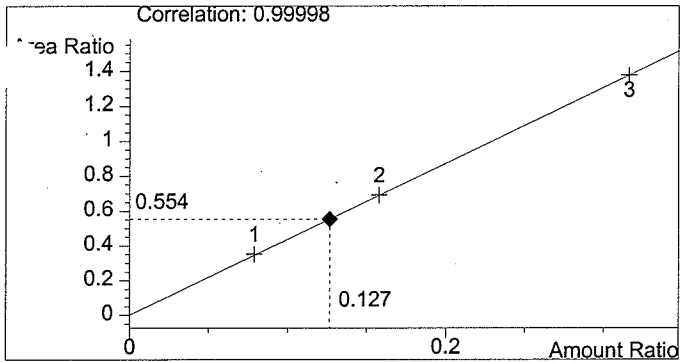
QA01040 0.10SOL  
 GENE SCHWILKE

vial # 16

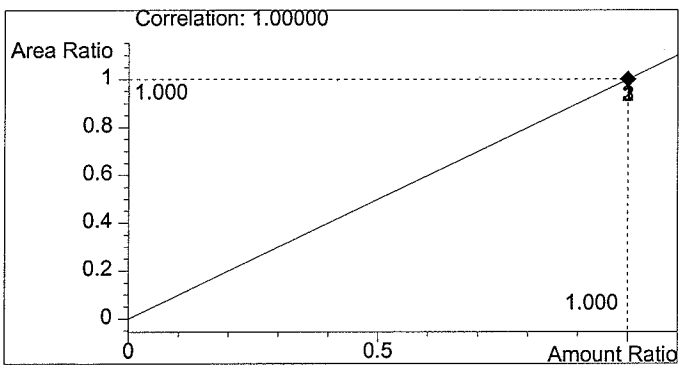


#	Compound	Area	RT
1	Ethanol	1914	1.070
2	n-Propanol	3454	1.870

Totals:



Ethanol 0.127 g/100ml



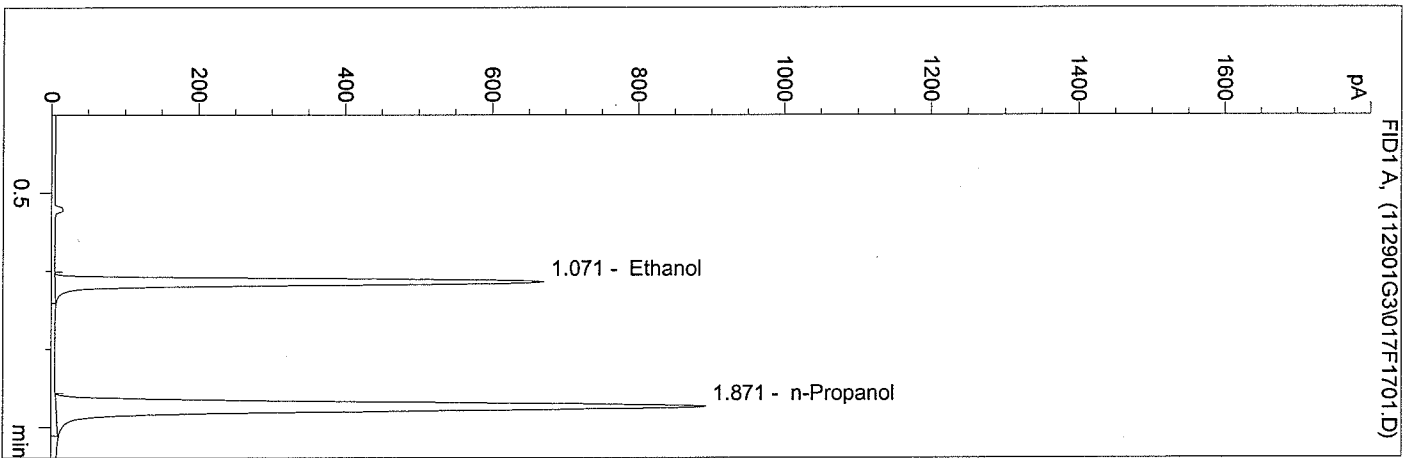
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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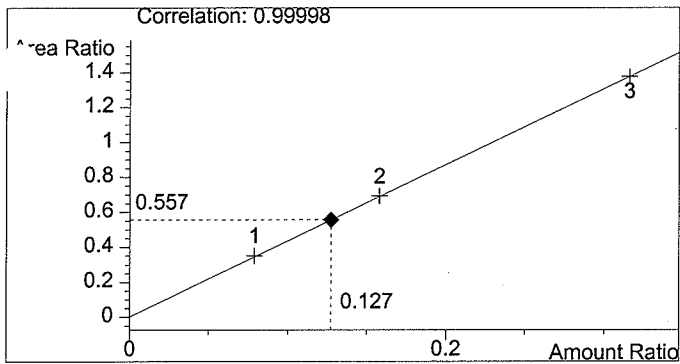
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 GENE SCHWILKE

vial # 17

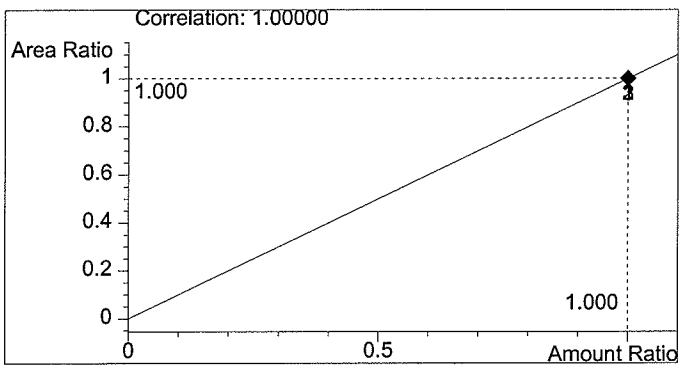


#	Compound	Area	RT
1	Ethanol	1948	1.071
2	n-Propanol	3497	1.871

Totals:



Ethanol 0.127 g/100ml



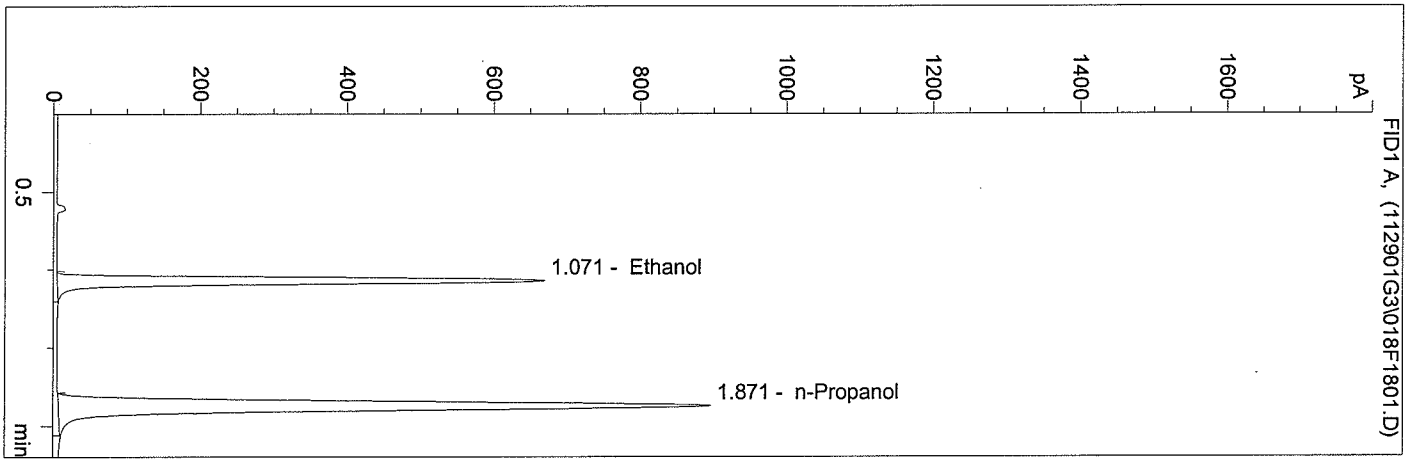
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 2

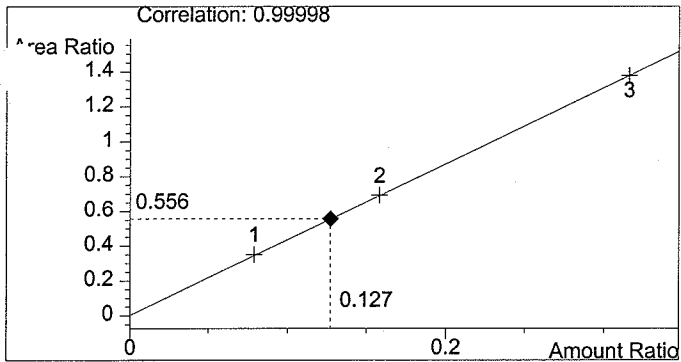
QA01040 0.10SOL  
 GENE SCHWILKE

vial # 18

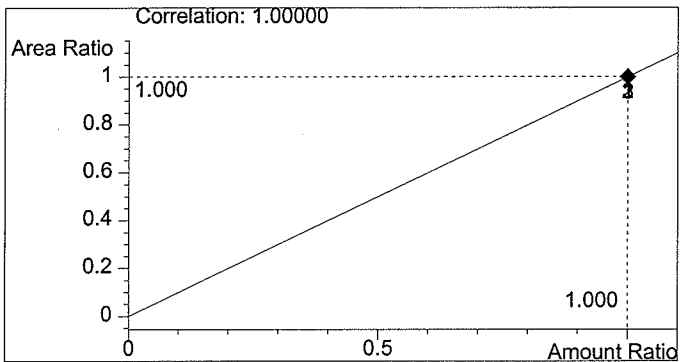


#	Compound	Area	RT
1	Ethanol	1959	1.071
2	n-Propanol	3520	1.871

Totals:



Ethanol 0.127 g/100ml

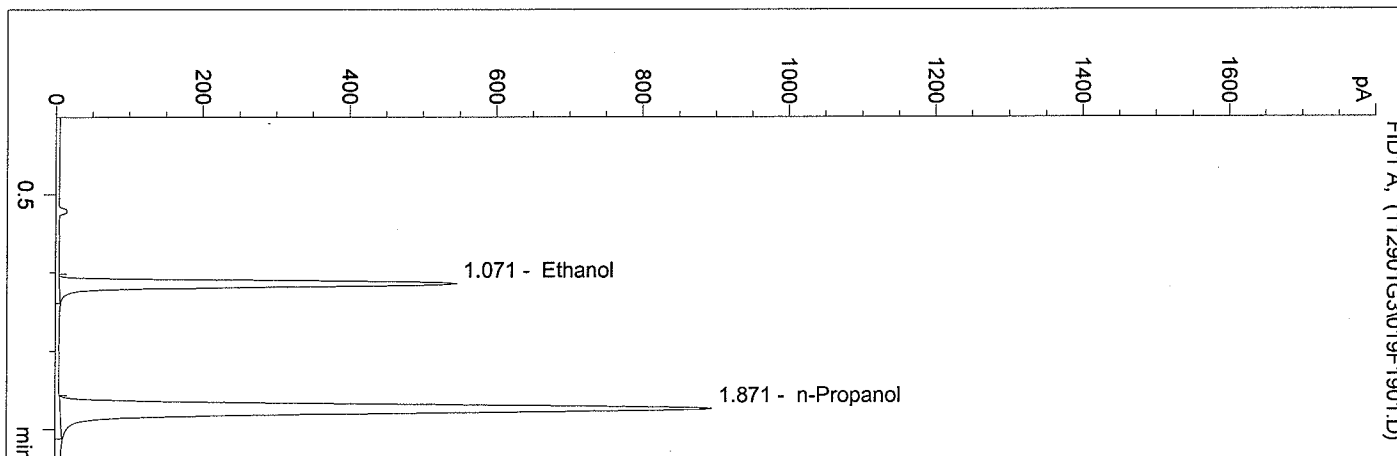


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/29/01 9:33:34 AM  
 Instrument 2

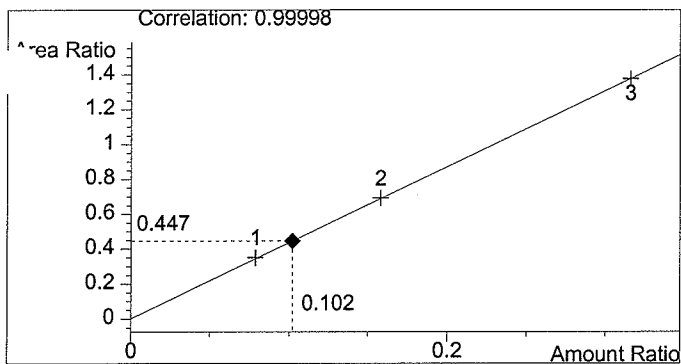
CAP 0.101  
 GENE SCHWILKE

vial # 19

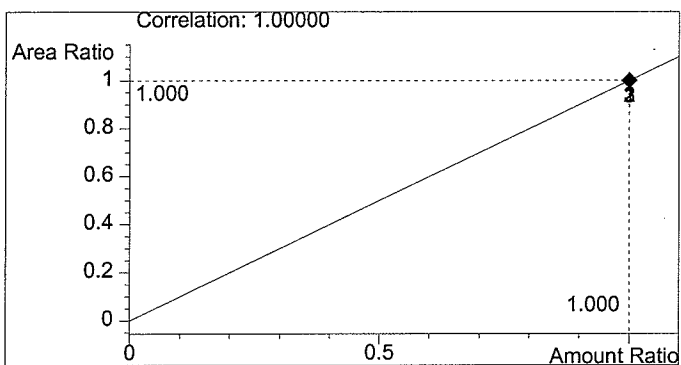


#	Compound	Area	RT
1	Ethanol	1560	1.071
2	n-Propanol	3488	1.871

Totals:



Ethanol 0.102 g/100ml

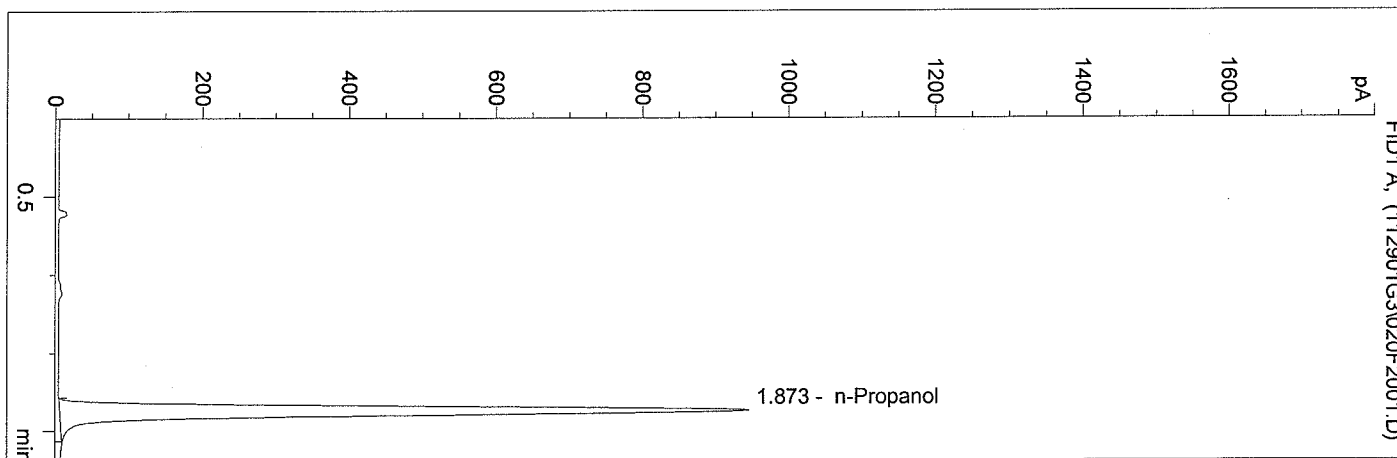


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/29/01 9:36:36 AM  
 Instrument 2

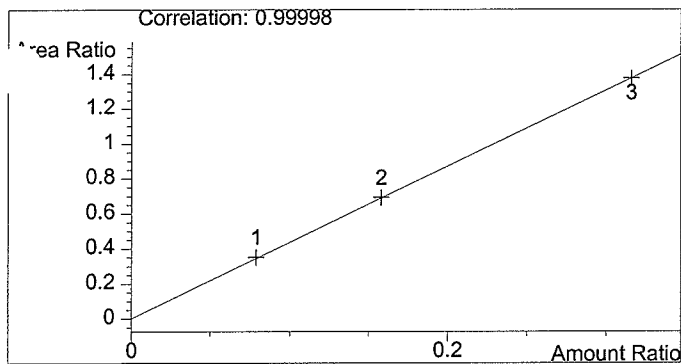
BLANK  
 GENE SCHWILKE

vial # 20

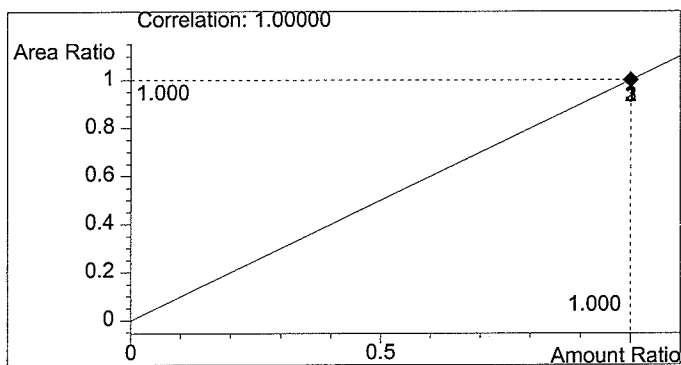


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3738	1.873

Totals:



Ethanol 0.000 g/100ml



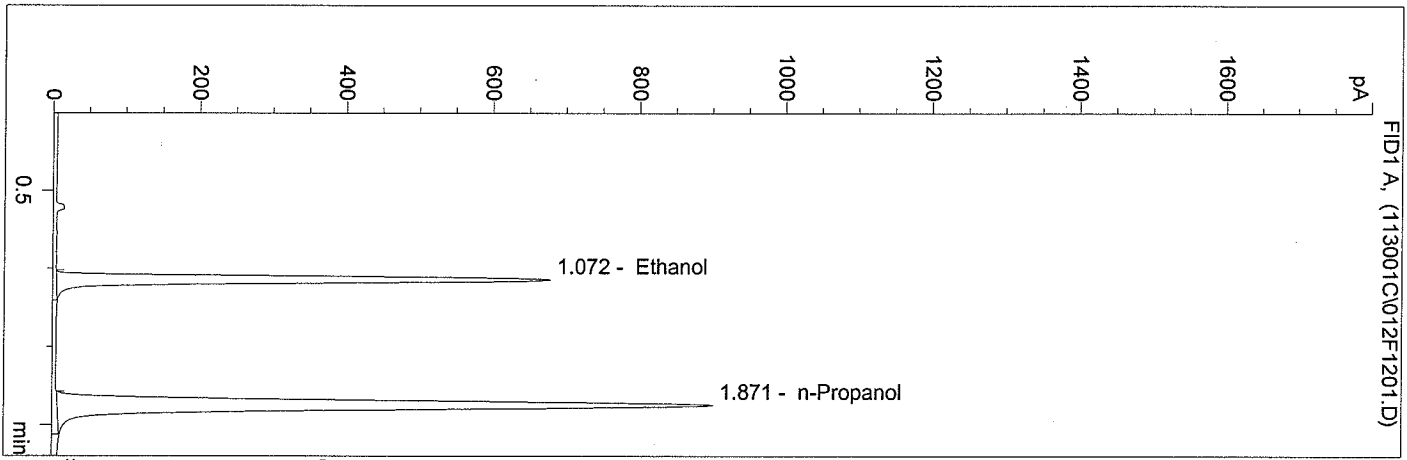
n-Propanol 1.000 g/100ml

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C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/30/01 10:15:02 AM  
 Instrument 2

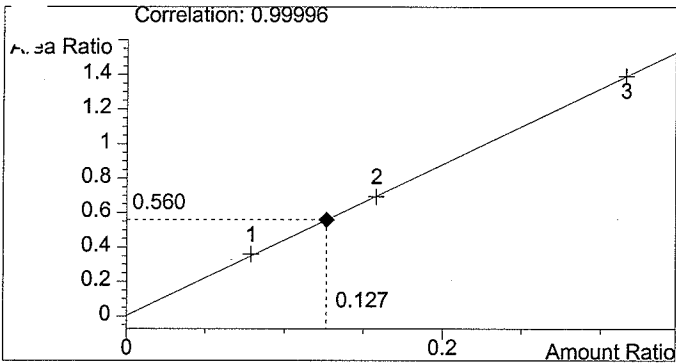
01040QA  
 M PEMBERTON

vial # 12

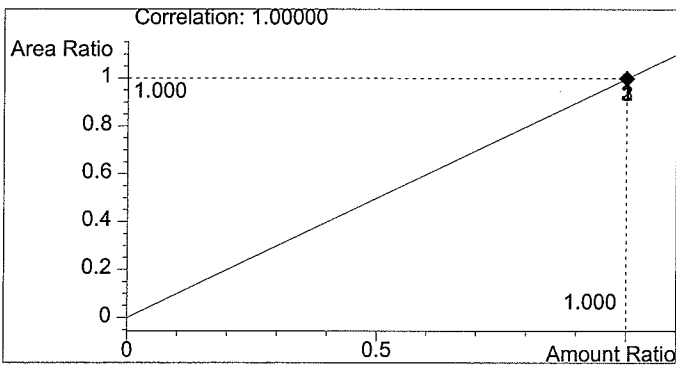


#	Compound	Area	RT
1	Ethanol	1984	1.072
2	n-Propanol	3545	1.871

Totals:



Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

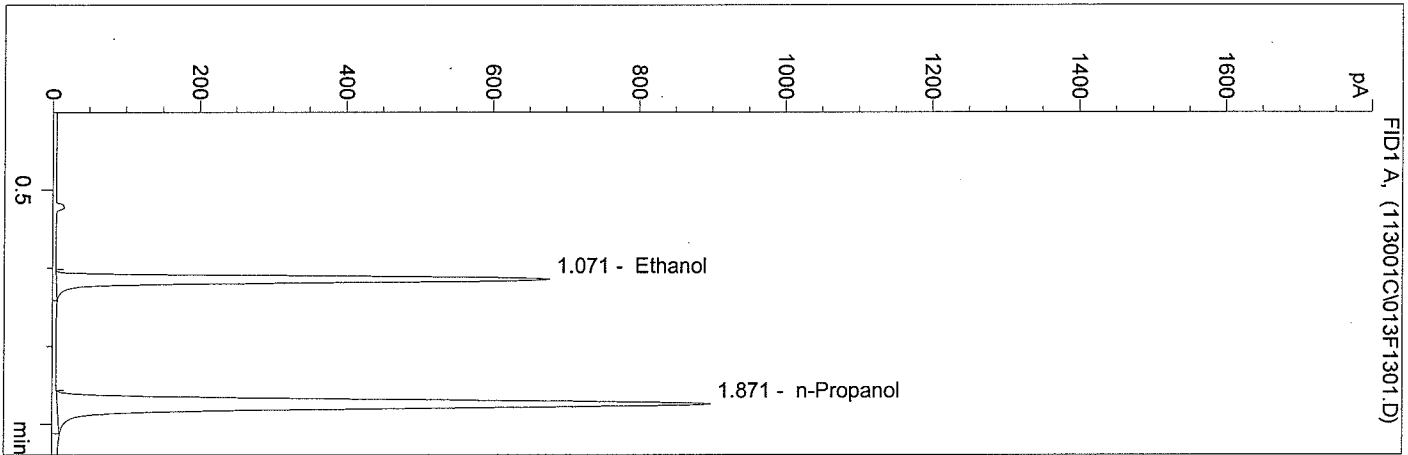
*Handwritten:*  
 LJP  
 1-15-05

WASHINGTON STATE TOXICOLOGY LABORATORY

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 11/30/01 10:19:07 AM  
 Instrument 2

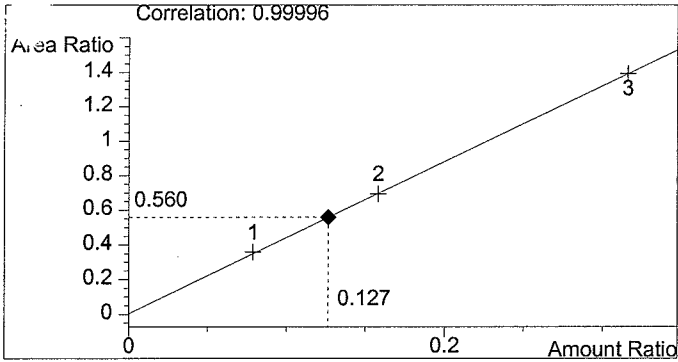
01040QA  
 M PEMBERTON

vial # 13

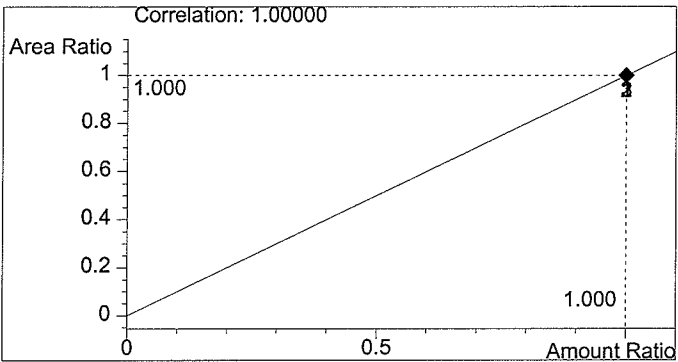


#	Compound	Area	RT
1	Ethanol	1976	1.071
2	n-Propanol	3531	1.871

Totals:



Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

*Handwritten signature and date:*  
 1-15-08



WASHINGTON STATE TOXICOLOGY LABORATORY

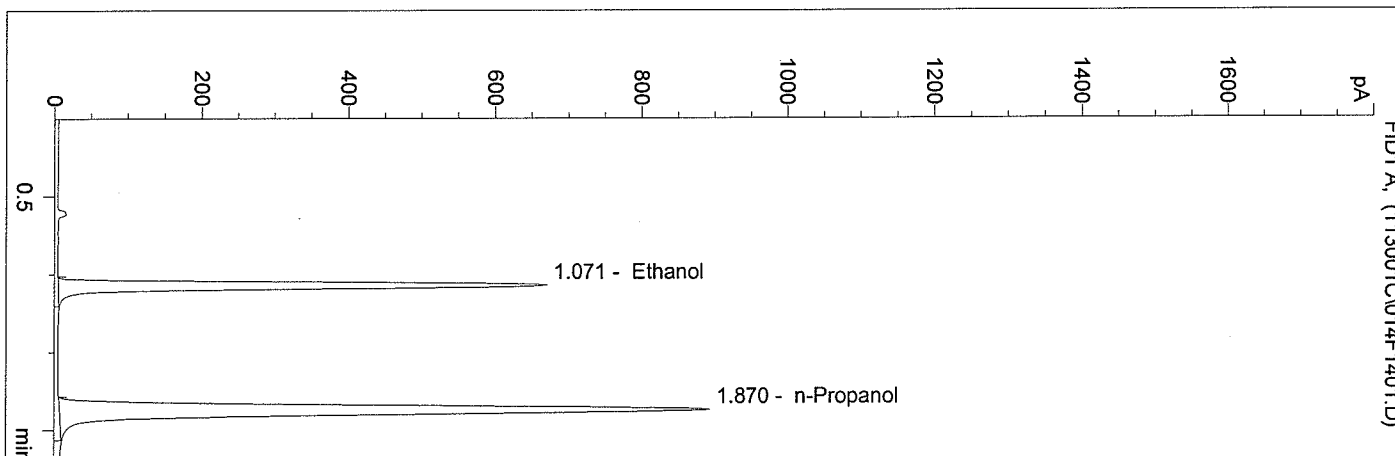
C:\HPCHEM\2\METHODS\BLDALCO2.M

11/30/01 10:22:12 AM

Instrument 2

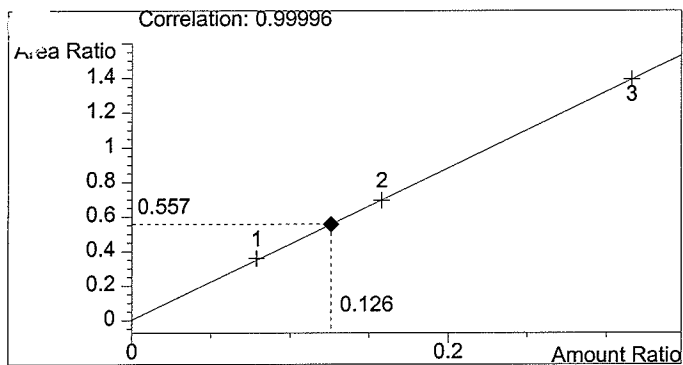
01040QA  
M PEMBERTON

vial # 14

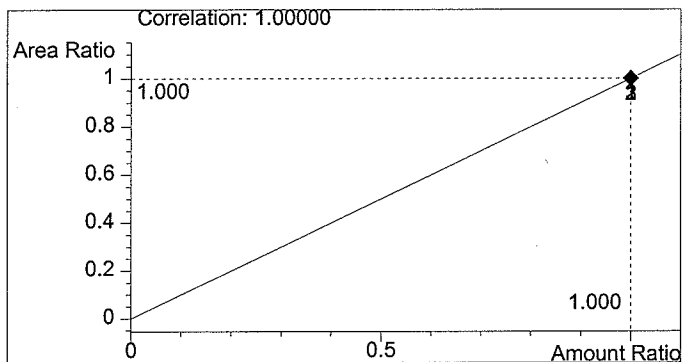


#	Compound	Area	RT
1	Ethanol	1961	1.071
2	n-Propanol	3518	1.870

Totals:



Ethanol 0.126 g/100ml



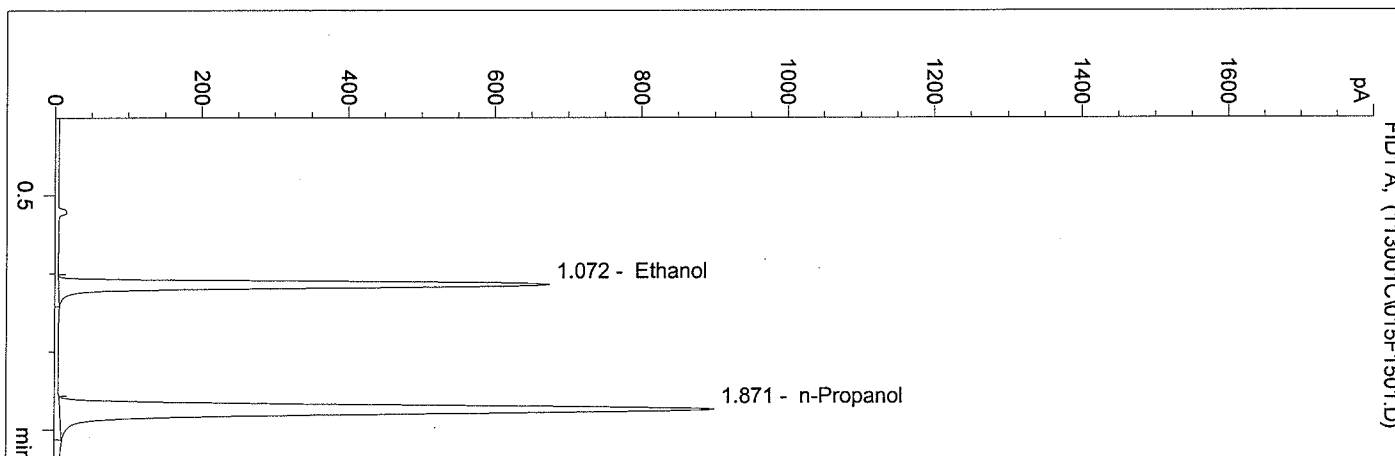
n-Propanol 1.000 g/100ml

*WJ*  
1-15-05

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/30/01 10:25:17 AM  
 Instrument 2

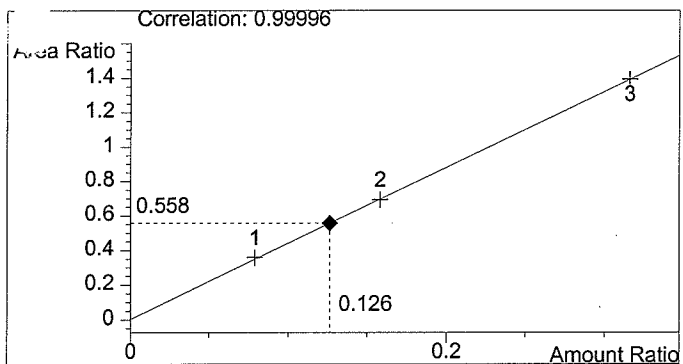
01040QA  
 M PEMBERTON

vial # 15

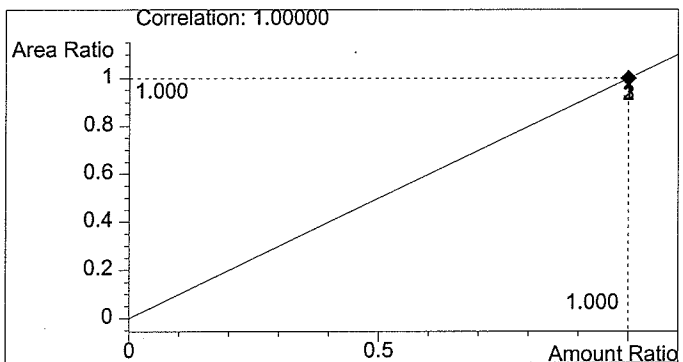


#	Compound	Area	RT
1	Ethanol	1986	1.072
2	n-Propanol	3555	1.871

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

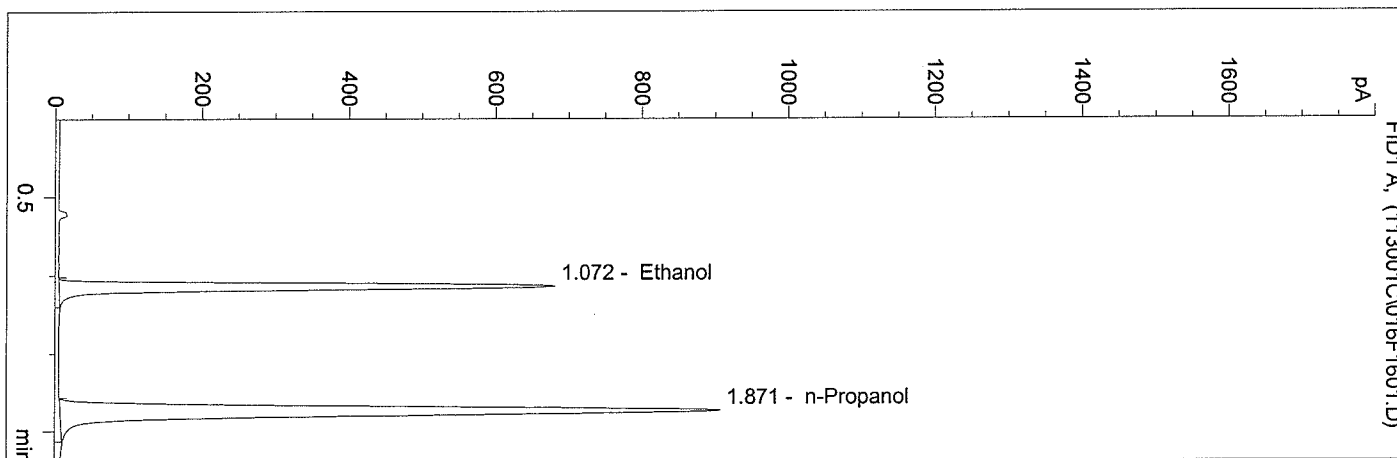
*Handwritten signature and date: 12/15/08*

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M  
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 Instrument 2

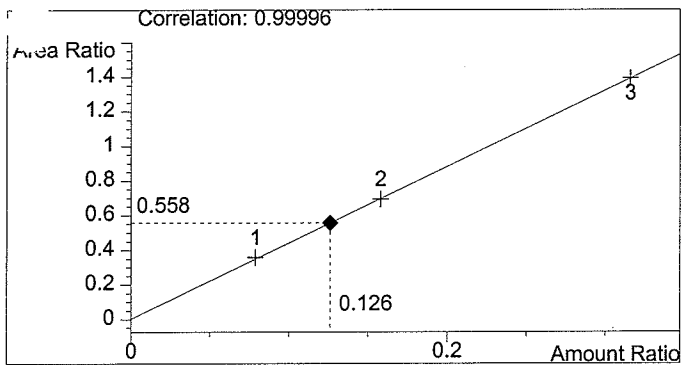
01040QA  
 M PEMBERTON

vial # 16

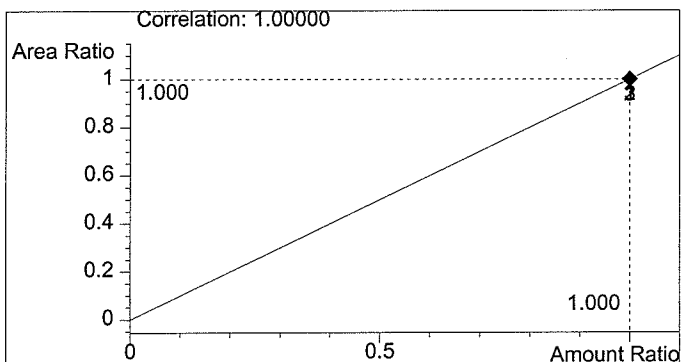


#	Compound	Area	RT
1	Ethanol	1986	1.072
2	n-Propanol	3561	1.871

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

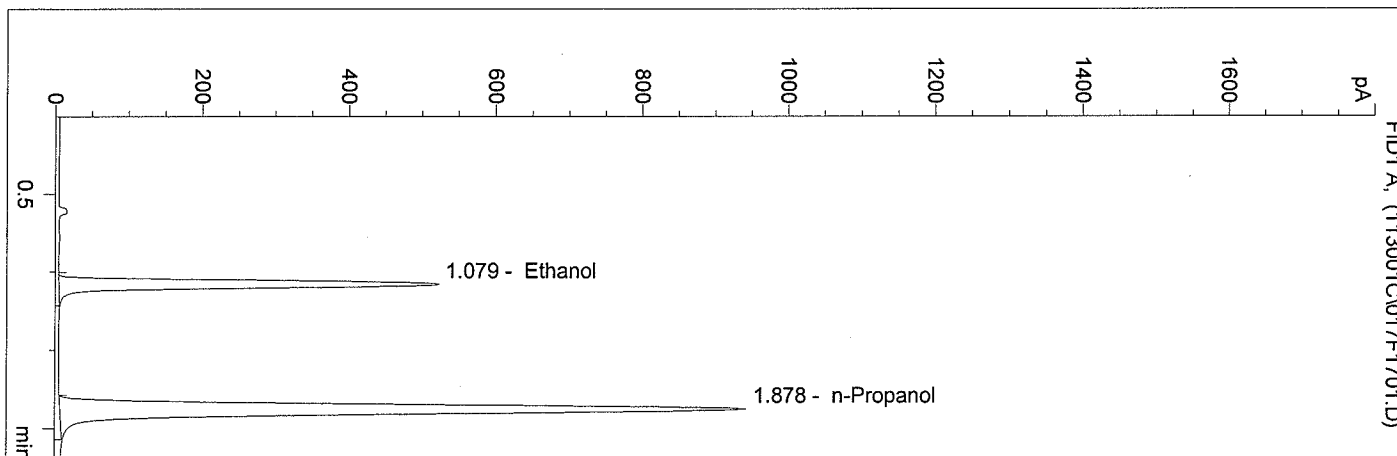
*Handwritten:* LP  
 1-15-08

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/30/01 10:31:35 AM  
 Instrument 2

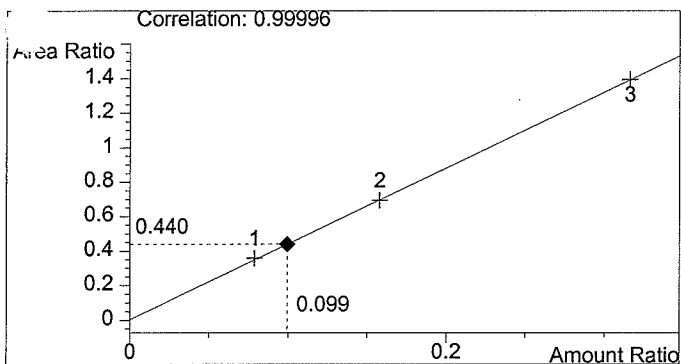
0.101 CAP  
 M PEMBERTON

vial # 17

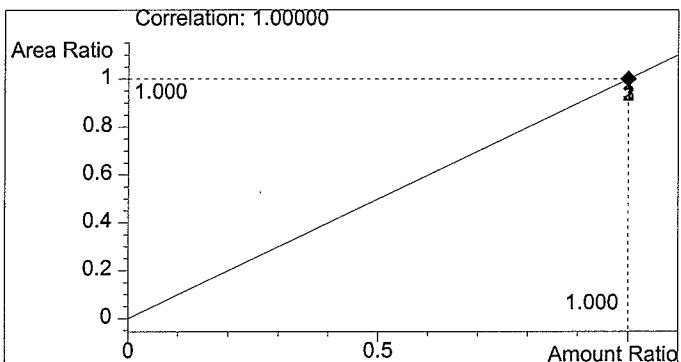


#	Compound	Area	RT
1	Ethanol	1691	1.079
2	n-Propanol	3842	1.878

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

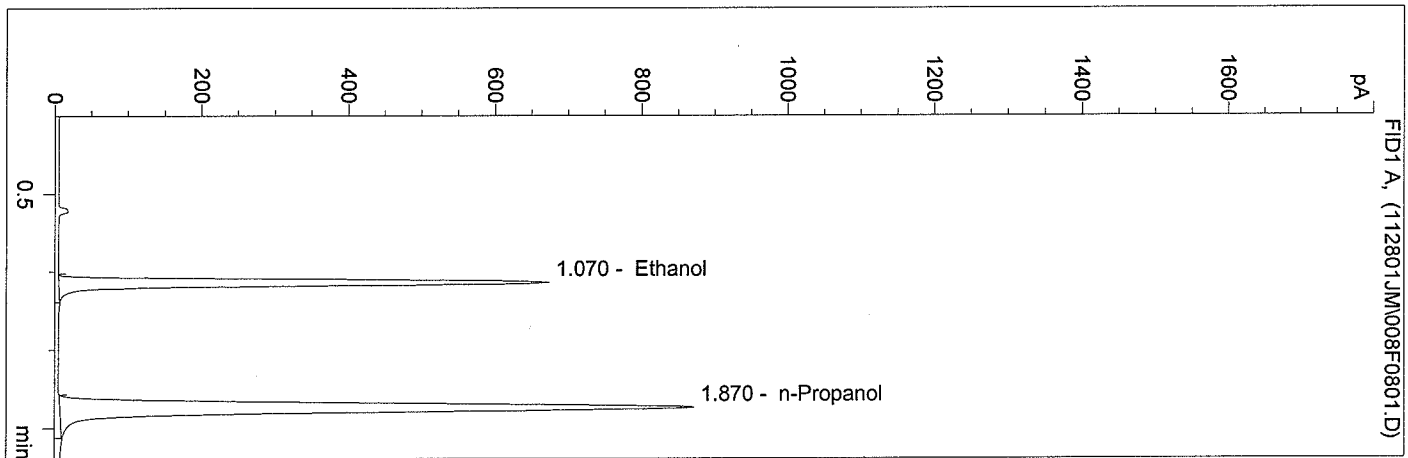
*Handwritten signature and date:*  
 kb  
 1-15-08

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/28/01 5:36:02 PM  
 Instrument 2

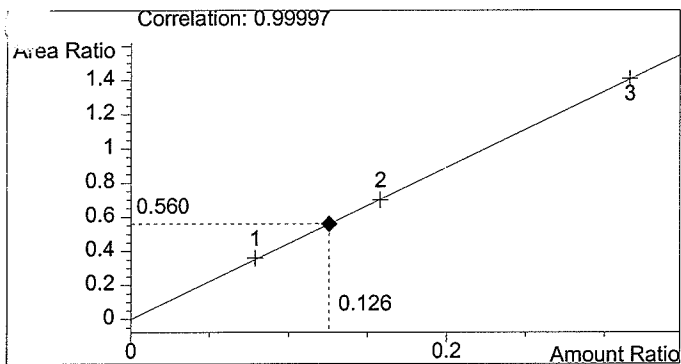
Q.A. 01040  
 Estuardo J. Miranda

vial # 8



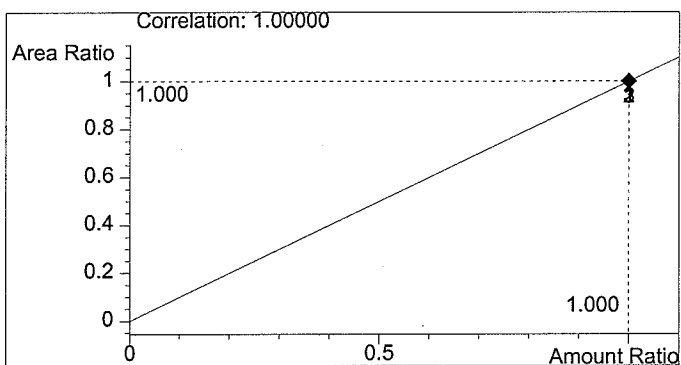
#	Compound	Area	RT
1	Ethanol	1893	1.070
2	n-Propanol	3379	1.870

Totals:



Ethanol 0.126 g/100ml

*EW*  
 1-15-2003  
*EW*



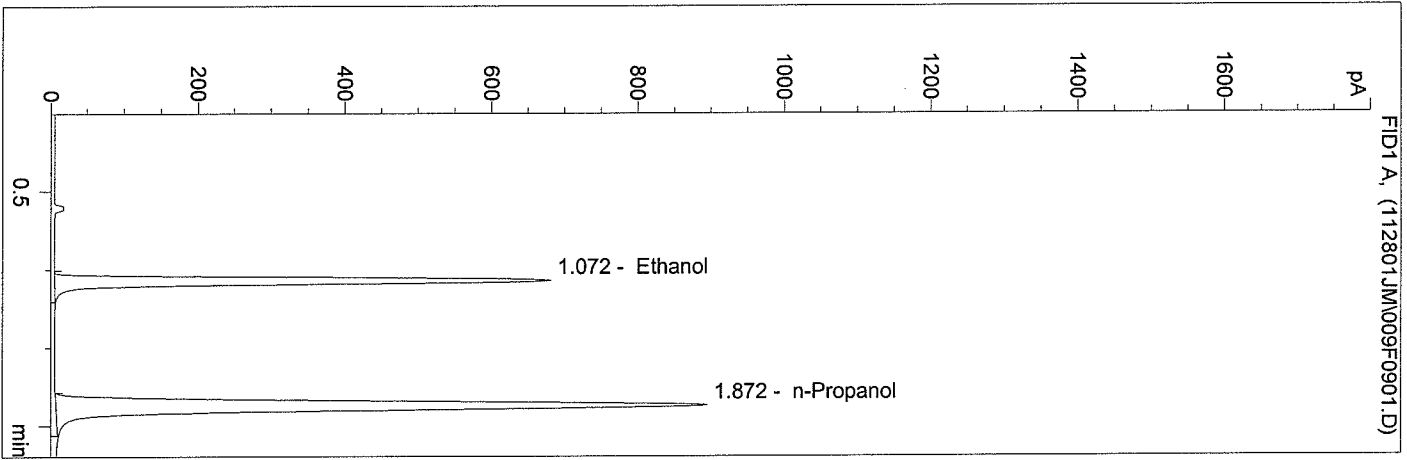
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/28/01 5:39:29 PM  
 Instrument 2

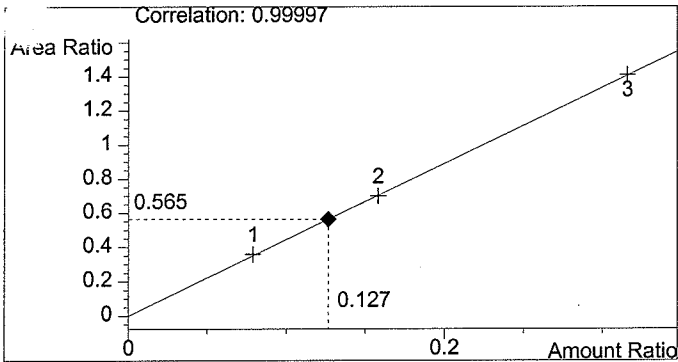
Q.A. 01040  
 Estuardo J. Miranda

vial # 9



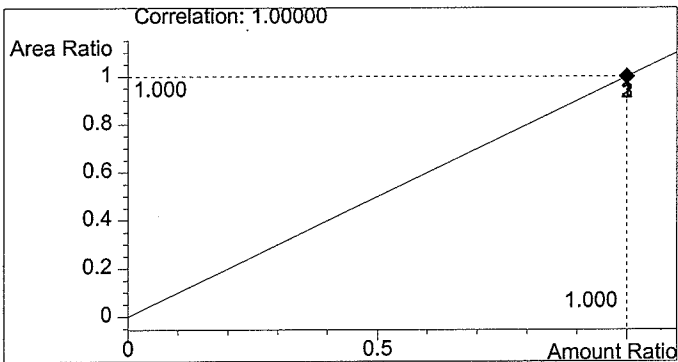
#	Compound	Area	RT
1	Ethanol	1979	1.072
2	n-Propanol	3505	1.872

Totals:



Ethanol 0.127 g/100ml

*EW*  
 1-15-2008



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M

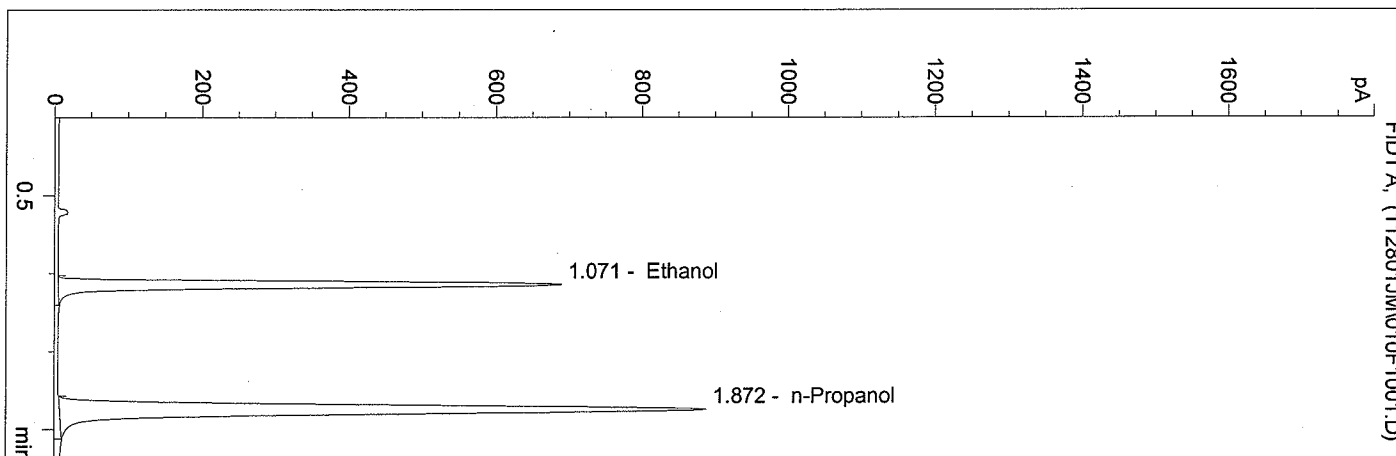
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Instrument 2

Q.A. 01040

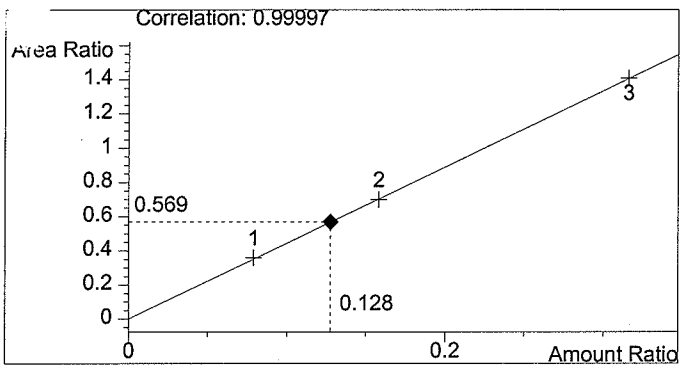
Estuardo J. Miranda

vial # 10



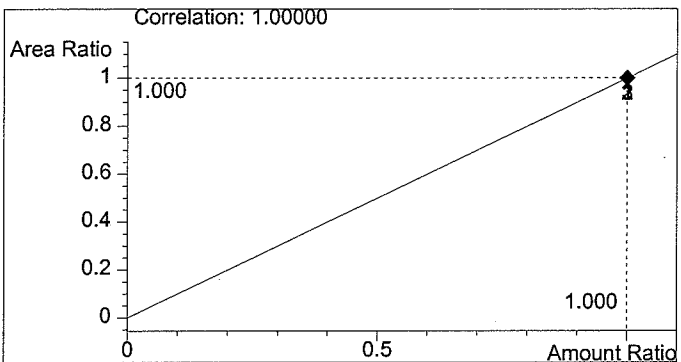
#	Compound	Area	RT
1	Ethanol	1962	1.071
2	n-Propanol	3446	1.872

Totals:



Ethanol 0.128 g/100ml

*EM*  
*1-15-2008*

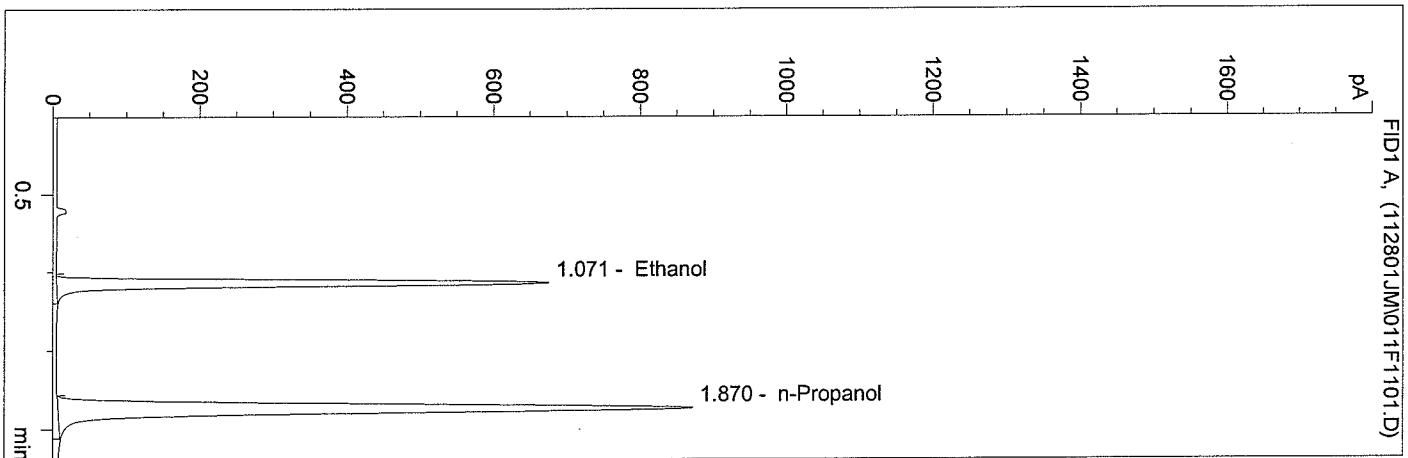


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/28/01 5:45:35 PM  
 Instrument 2

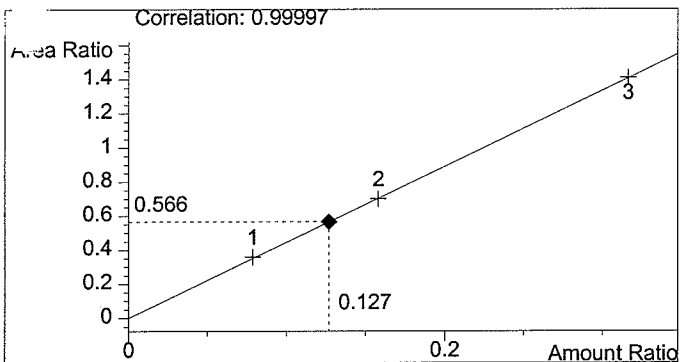
Q.A. 01040  
 Estuardo J. Miranda

vial # 11



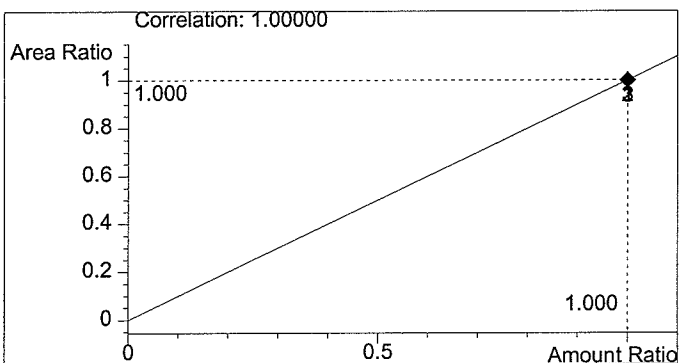
#	Compound	Area	RT
1	Ethanol	1919	1.071
2	n-Propanol	3391	1.870

Totals:



Ethanol 0.127 g/100ml

*EM*  
 1-15-2008



n-Propanol 1.000 g/100ml

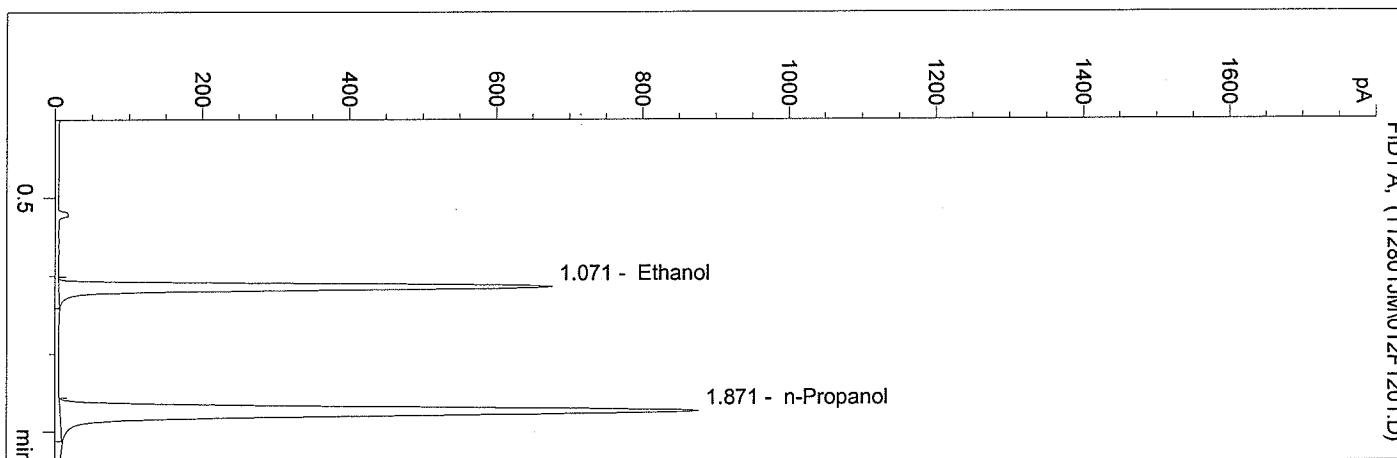


WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/28/01 5:48:41 PM  
 Instrument 2

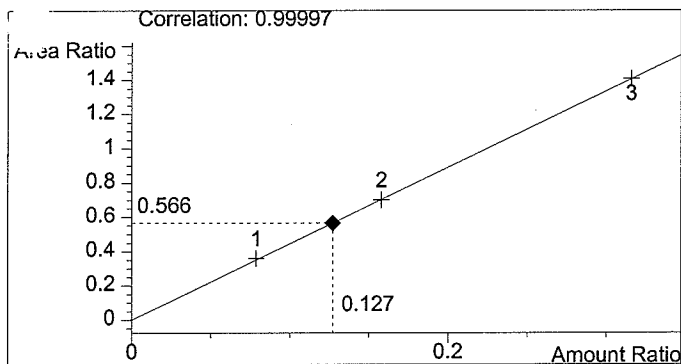
Q.A. 01040  
 Estuardo J. Miranda

vial # 12



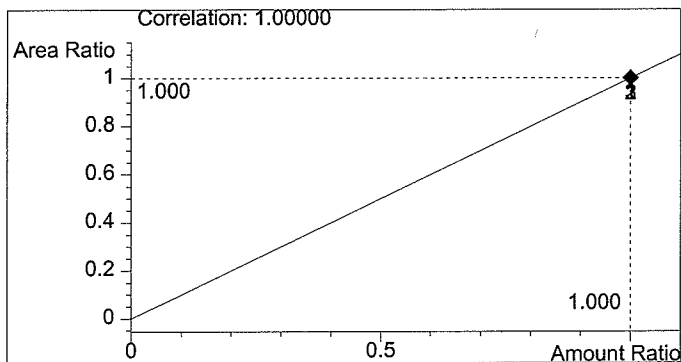
#	Compound	Area	RT
1	Ethanol	1938	1.071
2	n-Propanol	3421	1.871

Totals:



Ethanol 0.127 g/100ml

*EM*  
 1-15-2008

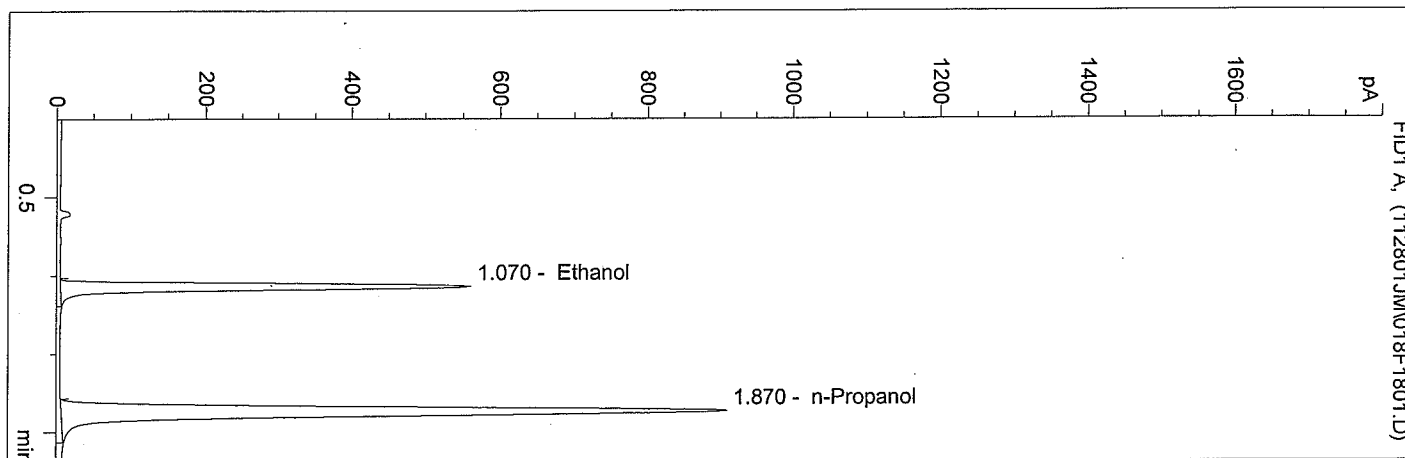


n-Propanol 1.000 g/100ml

C:\HPCHEM\2\METHODS\BLDALCO2.M  
 11/28/01 6:06:54 PM  
 Instrument 2

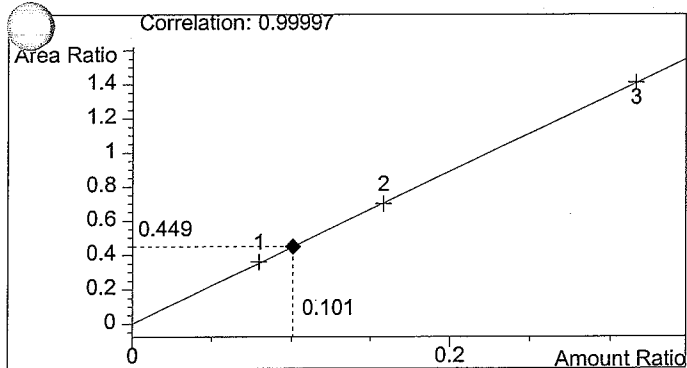
0.101 CAP Cntrl.  
 Estuardo J. Miranda

vial # 18



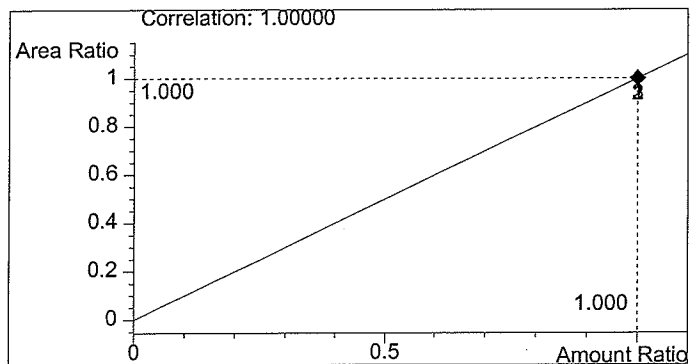
#	Compound	Area	RT
1	Ethanol	1586	1.070
2	n-Propanol	3532	1.870

Totals:



Ethanol 0.101 g/100ml

*EW*  
 1-15-2008



n-Propanol 1.000 g/100ml