

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

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

Batch number **03022**

Date: 6/26/2003

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	Anal10	Anal 11	Anal 12
1	0.123	0.128	0.127									
2	0.125	0.129	0.127									
3	0.127	0.129	0.125									
4	0.124	0.129	0.126									
5	0.126	0.129	0.127									
Ctrl	0.097	0.101	0.099									

External Control:

Lot #: a022167 Exp date: 01/05

Target concentration: 0.10 g/100mL

Statistics:


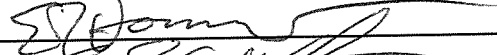
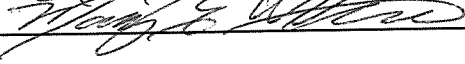
Avg. solution concent.: 0.1267 g/100 mL

SD: 0.00191

Range (3xSD): 0.1210 to 0.1325

Precision CV (%): 1.5050 %

Equivalent vapor concent.: 0.1030 g/210L

Analyst	Name	Signature	Date
1	Melissa Pemberton		06/26/03
2	Edward Formoso		06/30/03
3	Mary E Wilson		07/01/03
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Melissa Pemberton according to the approved protocol



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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 quality assurance solution, Lot Number 03022 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1267 grams per 100ml.

Dated: 7/7/03
Seattle, WA


Melissa L. Pemberton
Forensic Toxicologist

MP/bf
MPQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

I, Edward J. Formoso, 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 test instrument.

I possess the following qualifications: B.S. degree in Chemistry and twenty-eight years experience in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03022, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1267 grams per 100ml.

Dated: 7/7/03
Seattle, WA

Edward J. Formoso
Forensic Toxicologist

EJF/bf
EFQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

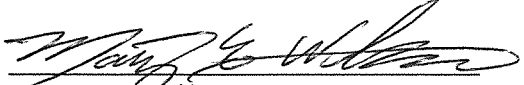
I, Mary E. Wilson, do certify under penalty of perjury as follows:

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 test instrument.

I possess the following qualifications: BS degree in Biology and a minor in Chemistry with two years of experience in Toxicology.

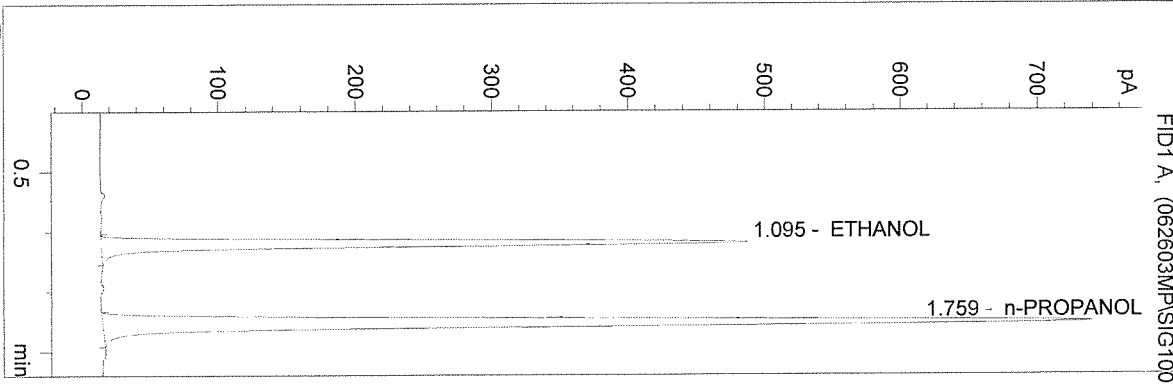
The quality assurance solution, Lot Number 03022, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1267 grams per 100ml.

Dated: 7/7/03
Seattle, WA


Mary E. Wilson
Forensic Toxicologist

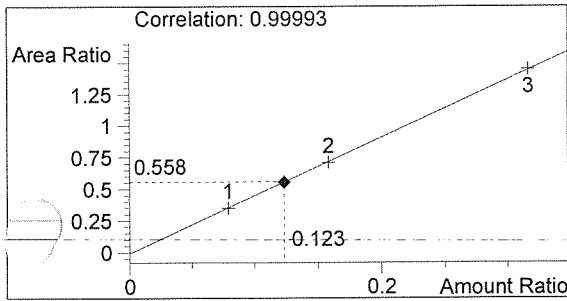
MEW/bf
MEWQA

vial # 23

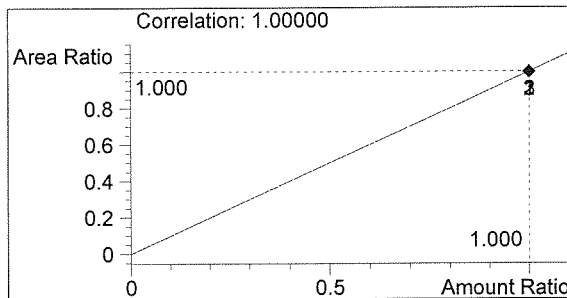


#	Compound	Area	RT
1	ETHANOL	1815	1.095
2	n-PROPANOL	3251	1.759

Totals:



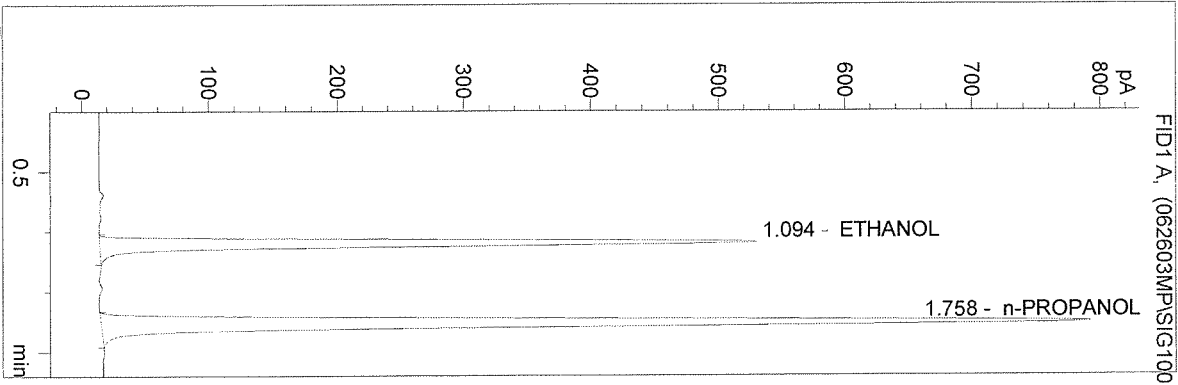
ETHANOL 0.123 g/100mL



n-PROPANOL 1.000 g/100mL

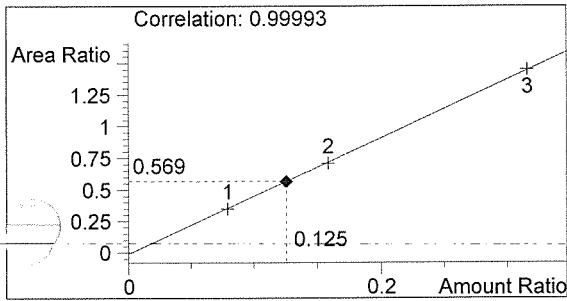
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vial # 24

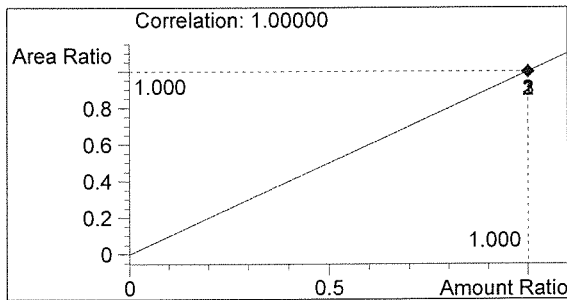


#	Compound	Area	RT
1	ETHANOL	1979	1.094
2	n-PROPANOL	3481	1.758

Totals:

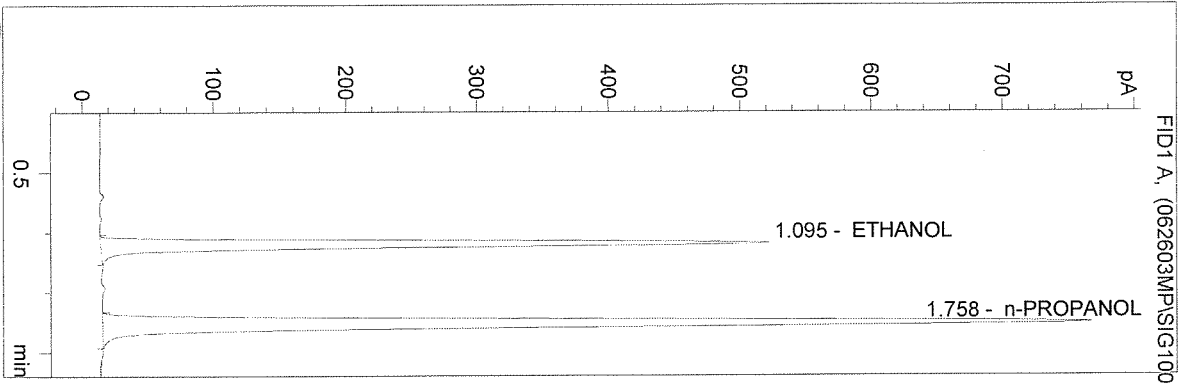


ETHANOL 0.125 g/100mL



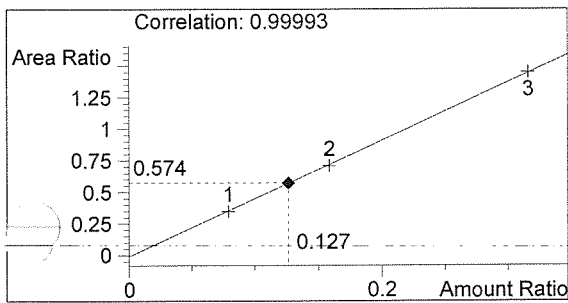
n-PROPANOL 1.000 g/100mL

vial # 25

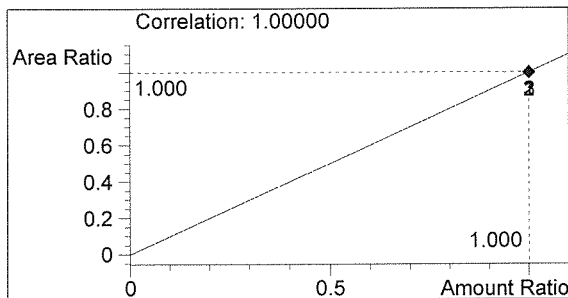


#	Compound	Area	RT
1	ETHANOL	1942	1.095
2	n-PROPANOL	3381	1.758

Totals:

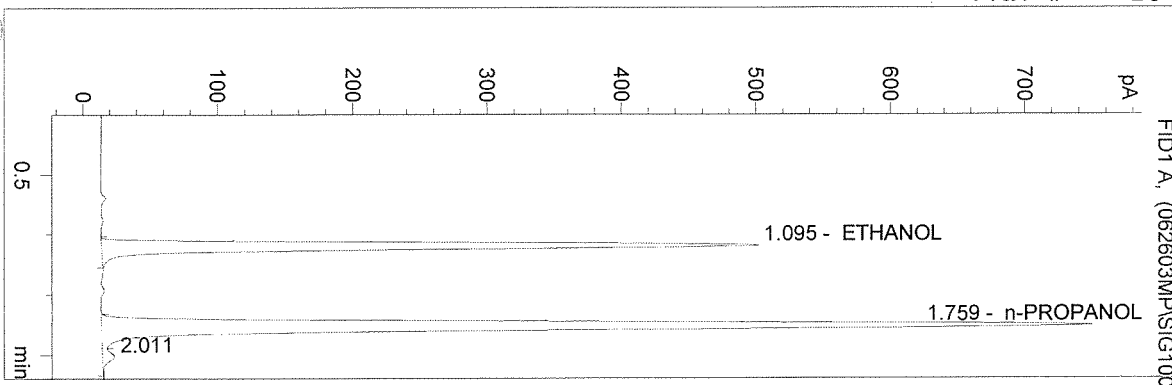


ETHANOL 0.127 g/100mL



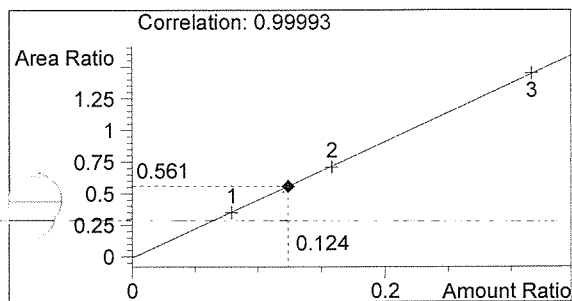
n-PROPANOL 1.000 g/100mL

vial # 26

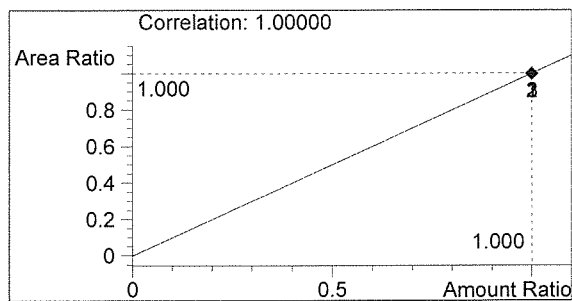


#	Compound	Area	RT
1	ETHANOL	1879	1.095
2	n-PROPANOL	3351	1.759
3		51	2.011

Totals:



ETHANOL 0.124 g/100mL



n-PROPANOL 1.000 g/100mL

C:\HPCHEM\1\METHODS\BLDALCO3.M

6/26/03 8:31:18 AM

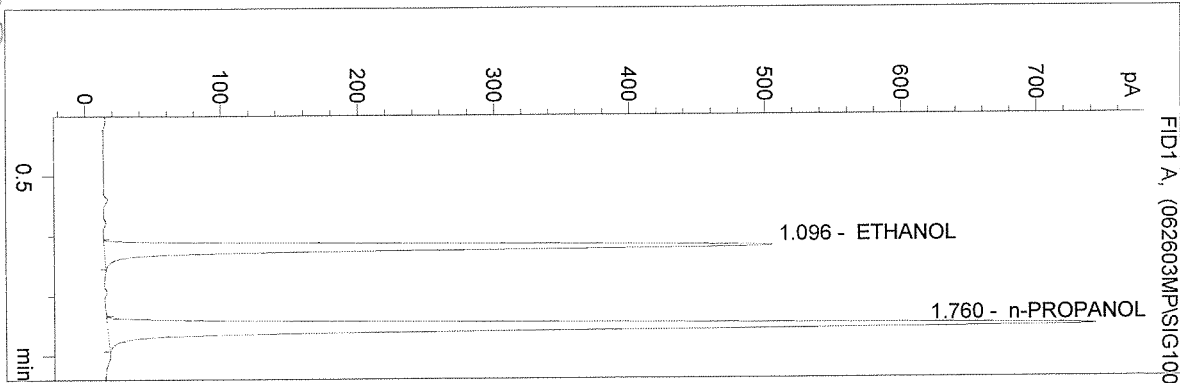
Instrument 3

ALC1

03022 0.10QA

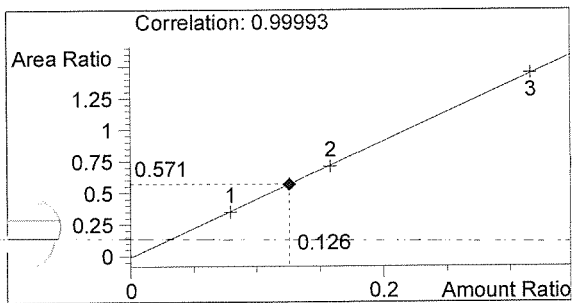
M PEMBERTON

vial # 27

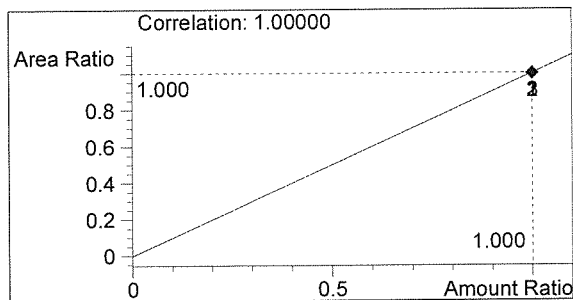


#	Compound	Area	RT
1	ETHANOL	1840	1.096
2	n-PROPANOL	3222	1.760

Totals:



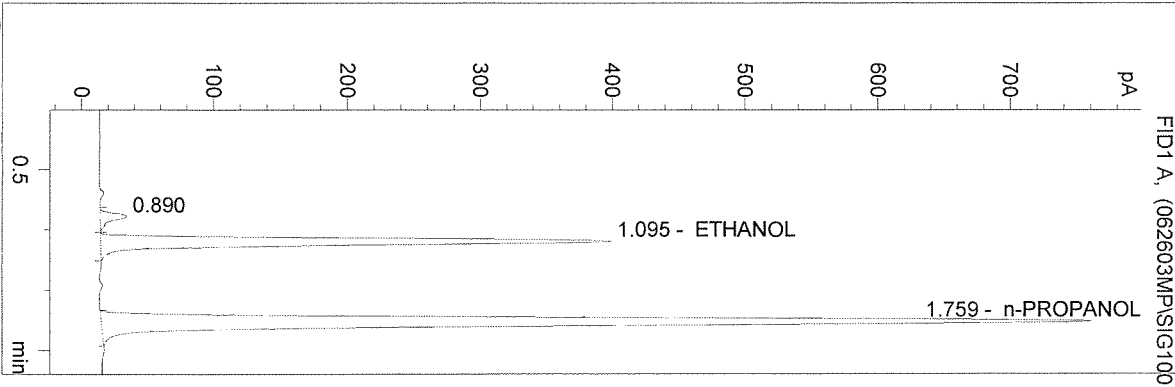
ETHANOL 0.126 g/100mL



n-PROPANOL 1.000 g/100mL

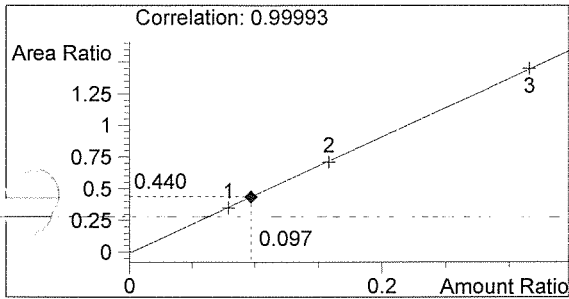
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vial # 28

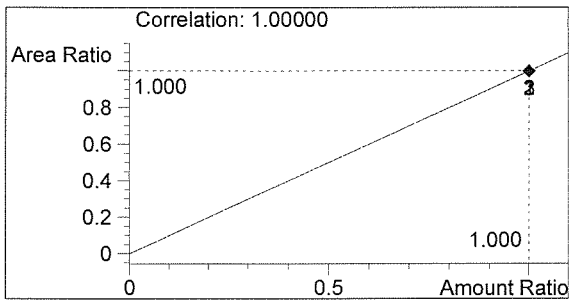


#	Compound	Area	RT
1		85	0.890
2	ETHANOL	1478	1.095
3	n-PROPANOL	3361	1.759

Totals:

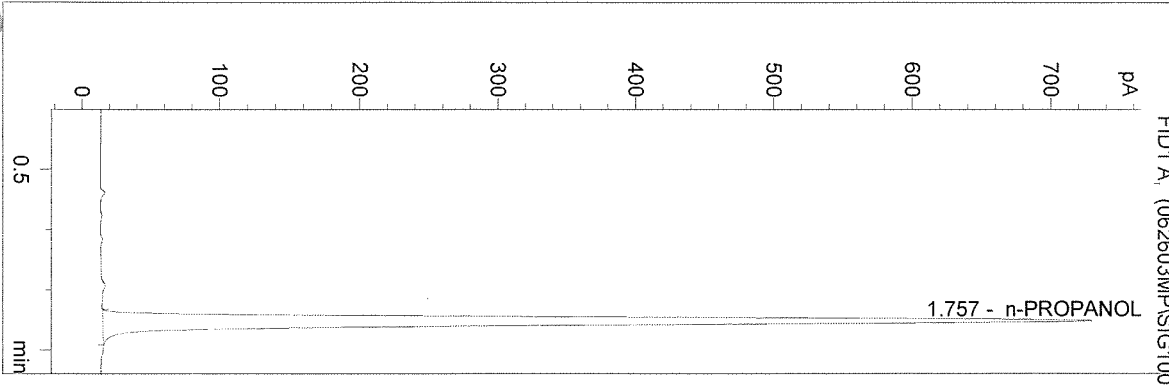


ETHANOL 0.097 g/100mL



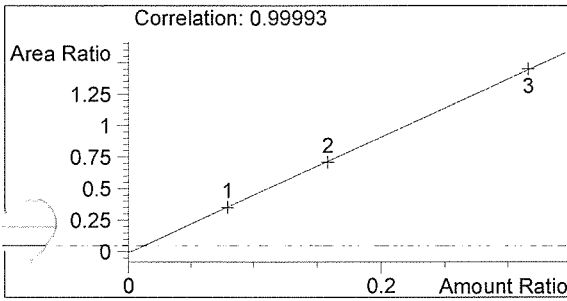
n-PROPANOL 1.000 g/100mL

vial # 29

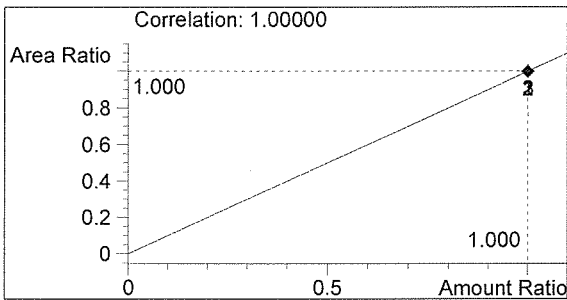


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3230	1.757

Totals:

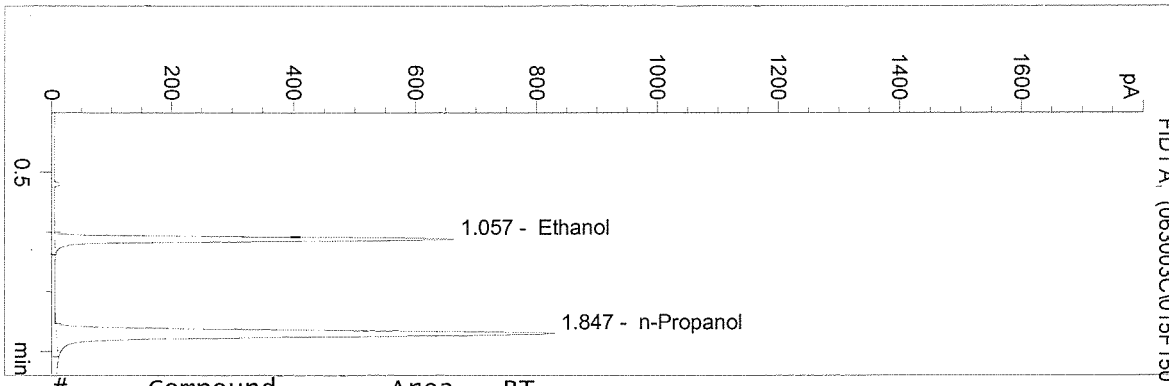


ETHANOL 0.000 g/100mL



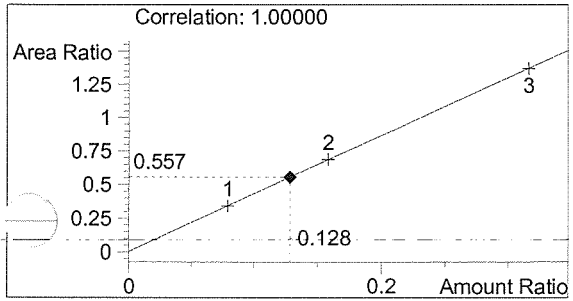
n-PROPANOL 1.000 g/100mL

vial # 15

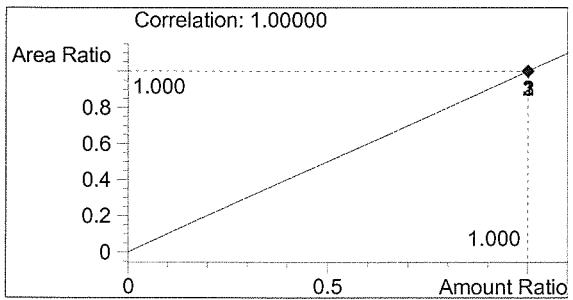


#	Compound	Area	RT
1	Ethanol	1772	1.057
2	n-Propanol	3182	1.847

Totals:

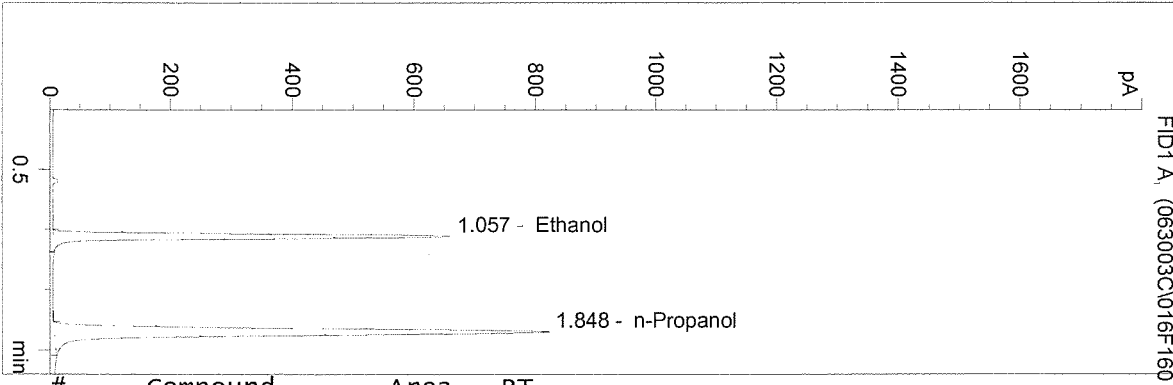


Ethanol 0.128 g/100ml



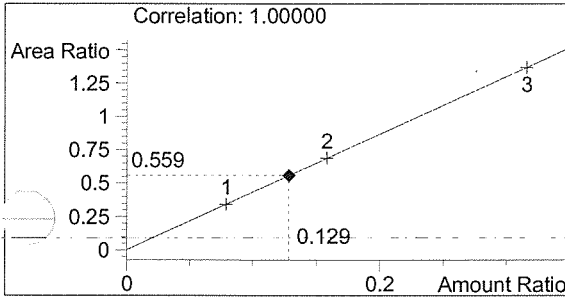
n-Propanol 1.000 g/100ml

vial # 16

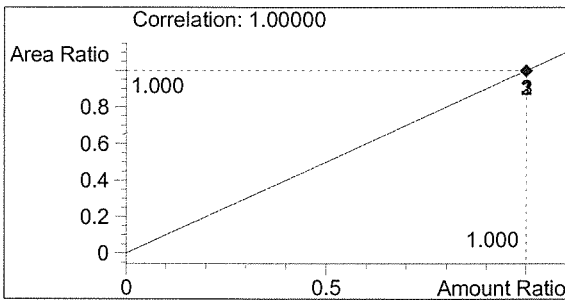


#	Compound	Area	RT
1	Ethanol	1770	1.057
2	n-Propanol	3168	1.848

Totals:



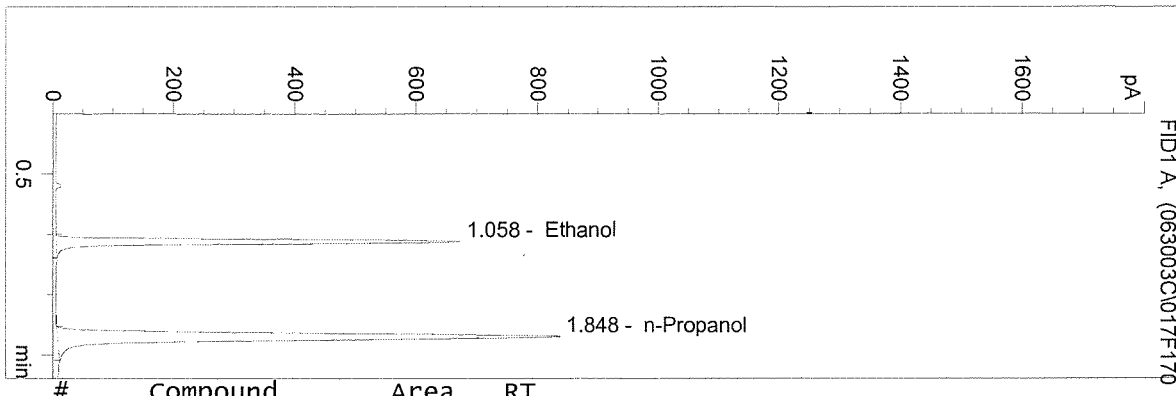
Ethanol 0.129 g/100ml



n-Propanol 1.000 g/100ml

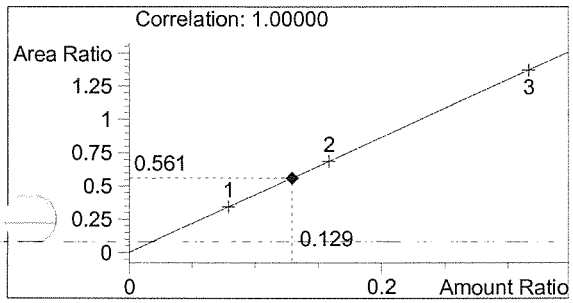
ALC1

vial # 17

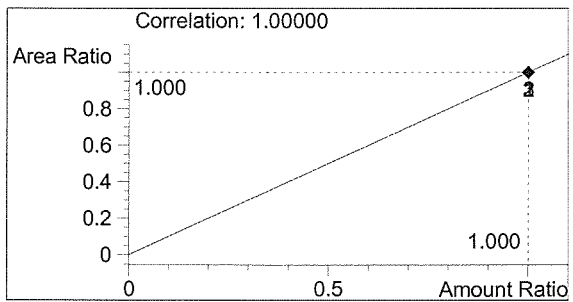


#	Compound	Area	RT
1	Ethanol	1803	1.058
2	n-Propanol	3215	1.848

Totals:

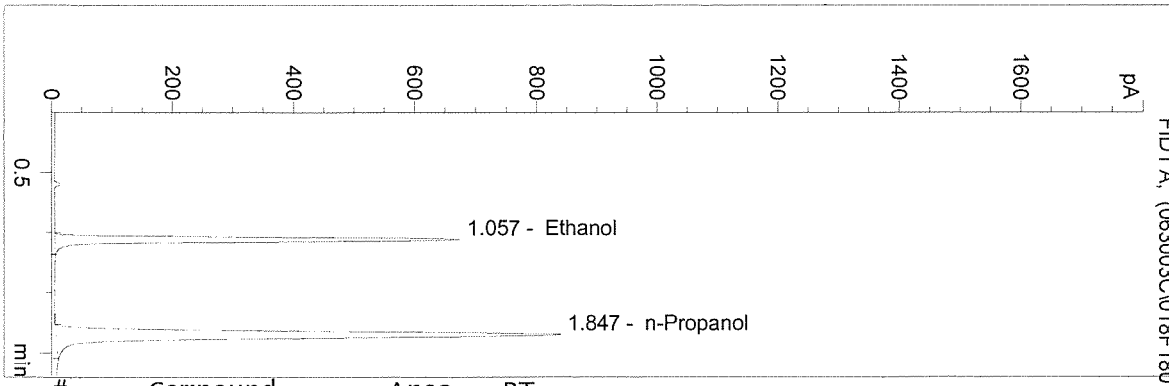


Ethanol 0.129 g/100ml



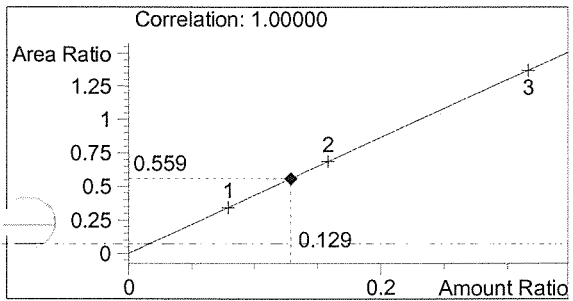
n-Propanol 1.000 g/100ml

vial # 18

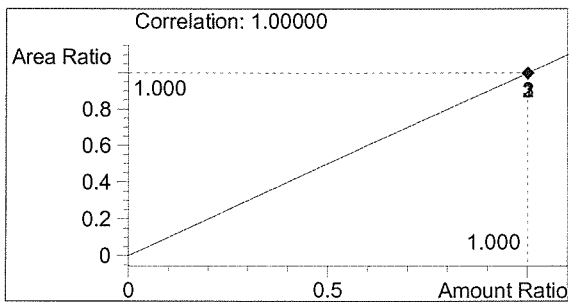


#	Compound	Area	RT
1	Ethanol	1808	1.057
2	n-Propanol	3233	1.847

Totals:

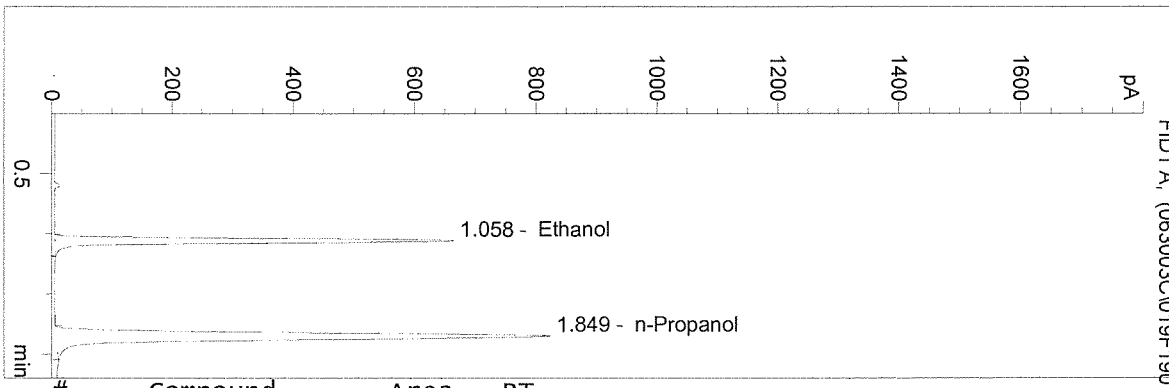


Ethanol 0.129 g/100ml



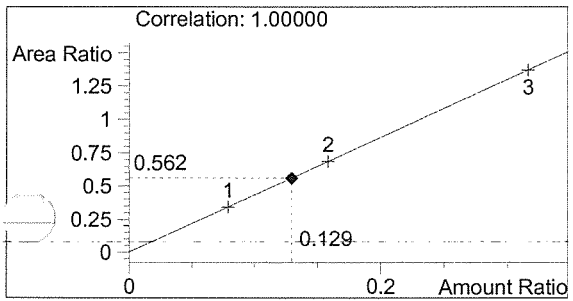
n-Propanol 1.000 g/100ml

vial # 19

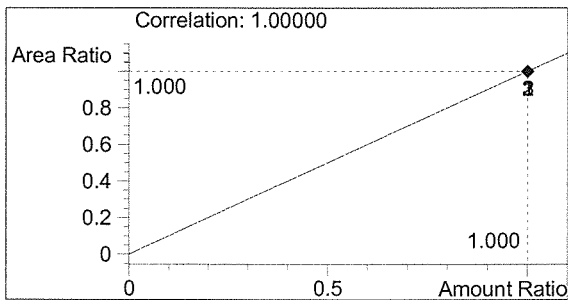


#	Compound	Area	RT
1	Ethanol	1785	1.058
2	n-Propanol	3175	1.849

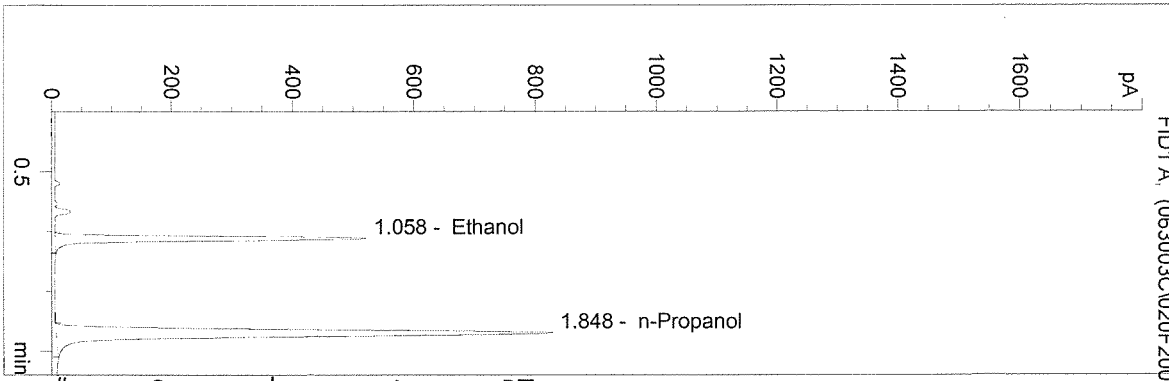
Totals:



Ethanol 0.129 g/100ml

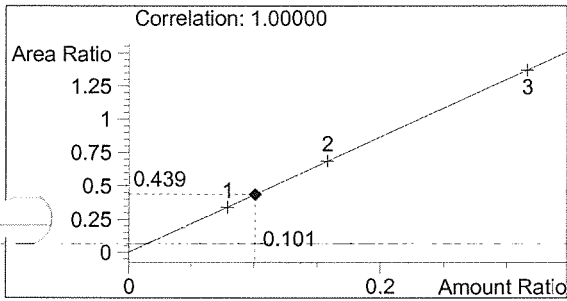


n-Propanol 1.000 g/100ml

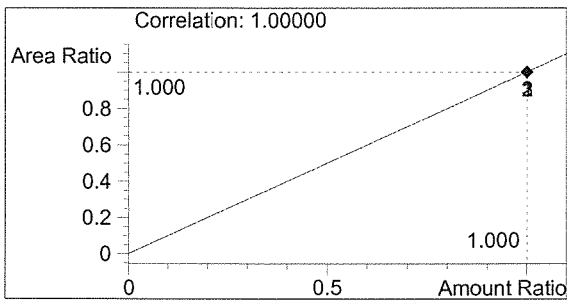


#	Compound	Area	RT
1	Ethanol	1401	1.058
2	n-Propanol	3192	1.848

Totals:

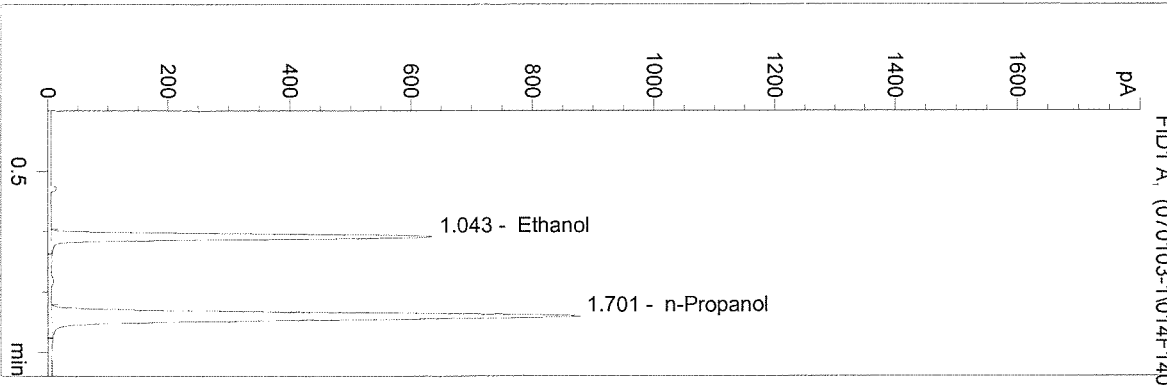


Ethanol 0.101 g/100ml



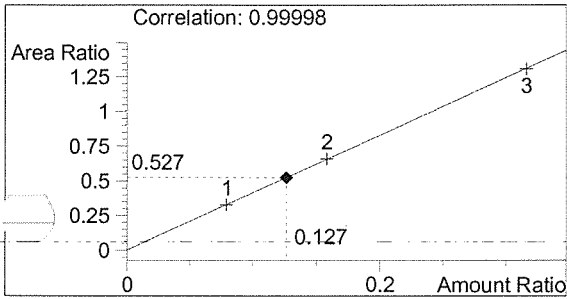
n-Propanol 1.000 g/100ml

vial # 14

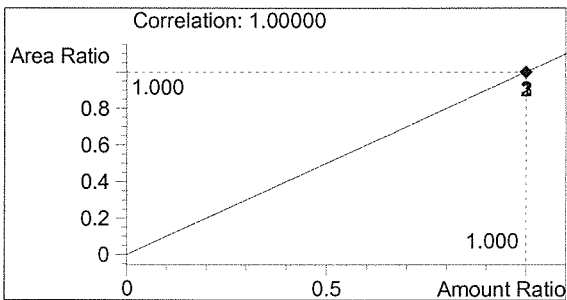


#	Compound	Area	RT
1	Ethanol	1956	1.043
2	n-Propanol	3715	1.701

Totals:



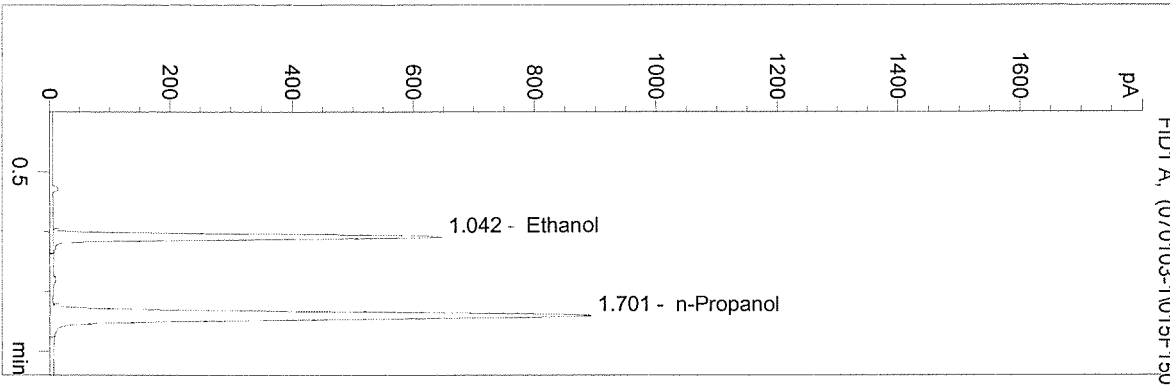
Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

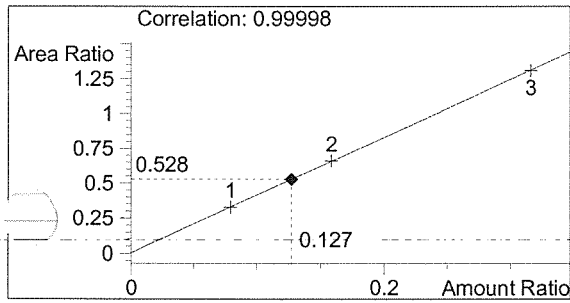
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vial # 15

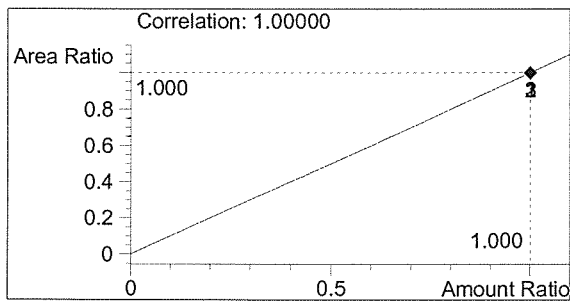


#	Compound	Area	RT
1	Ethanol	1991	1.042
2	n-Propanol	3772	1.701

Totals:

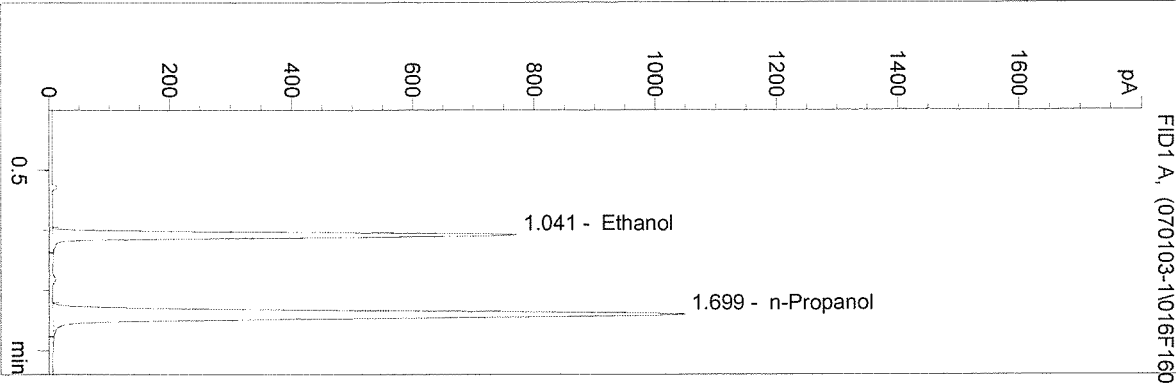


Ethanol 0.127 g/100ml



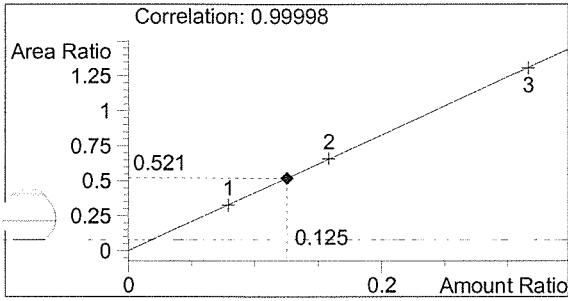
n-Propanol 1.000 g/100ml

vial # 16

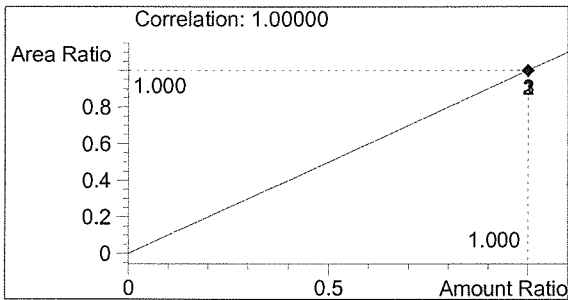


#	Compound	Area	RT
1	Ethanol	2280	1.041
2	n-Propanol	4375	1.699

Totals:

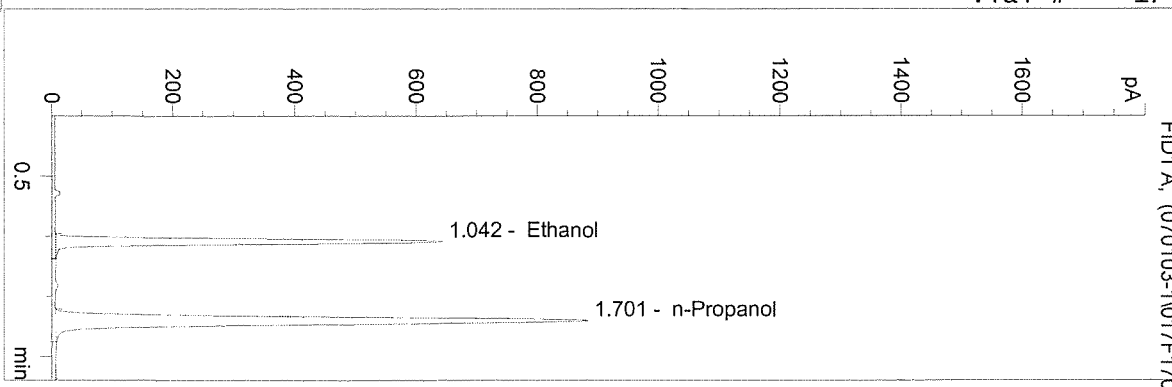


Ethanol 0.125 g/100ml



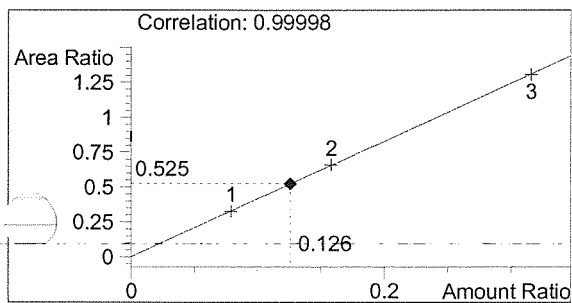
n-Propanol 1.000 g/100ml

vial # 17

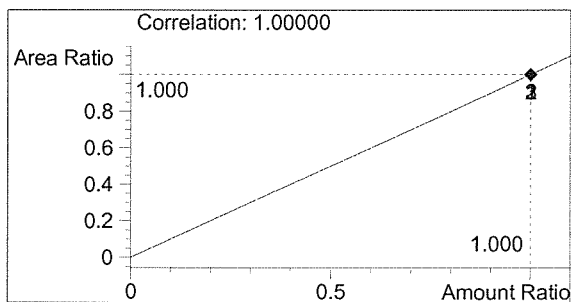


#	Compound	Area	RT
1	Ethanol	1955	1.042
2	n-Propanol	3722	1.701

Totals:

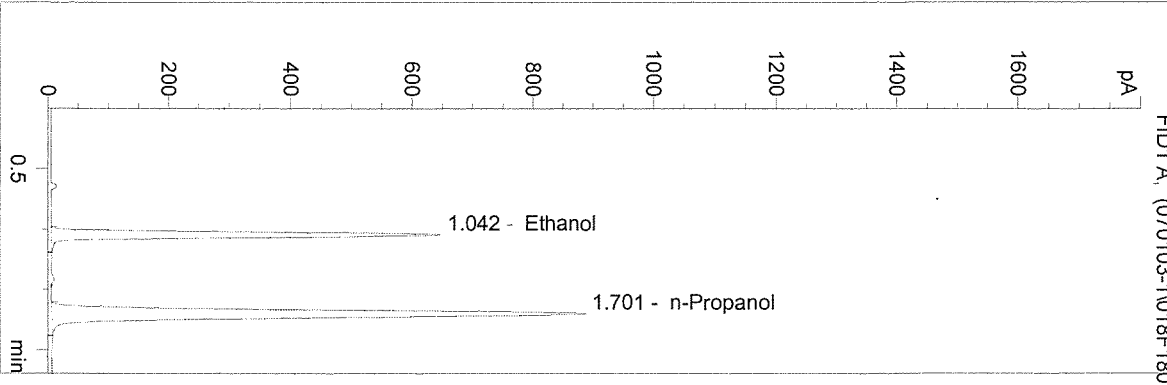


Ethanol 0.126 g/100ml



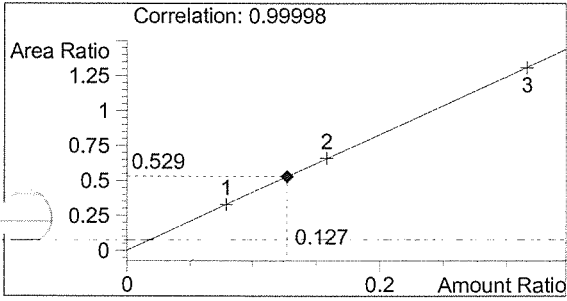
n-Propanol 1.000 g/100ml

vial # 18

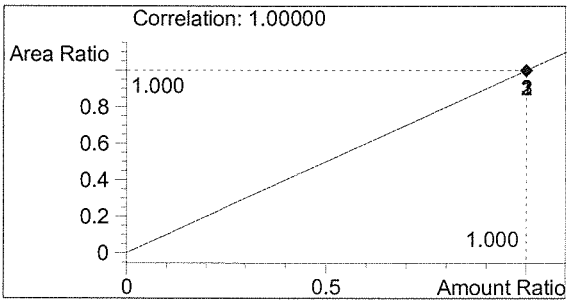


#	Compound	Area	RT
1	Ethanol	1980	1.042
2	n-Propanol	3739	1.701

Totals:

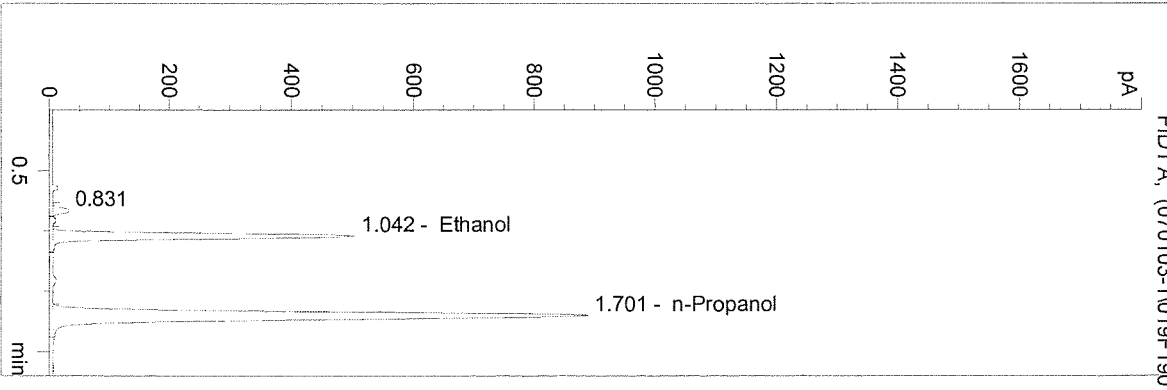


Ethanol 0.127 g/100ml



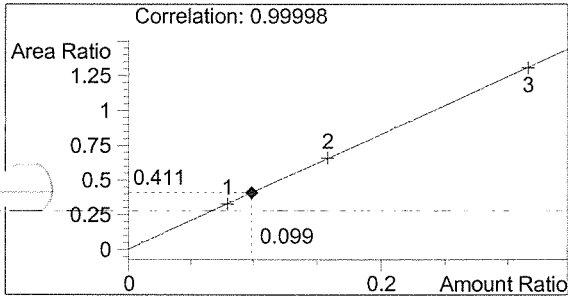
n-Propanol 1.000 g/100ml

vial # 19

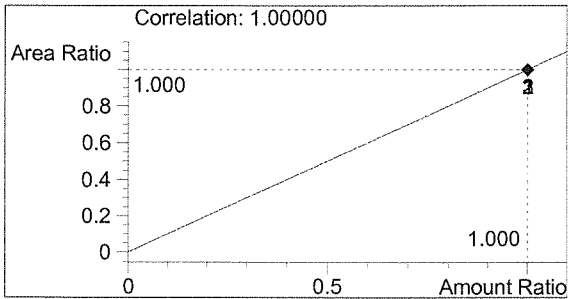


#	Compound	Area	RT
1		82	0.831
2	Ethanol	1545	1.042
3	n-Propanol	3760	1.701

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

C:\HPCHEM\1\METHODS\BLDALCO.M

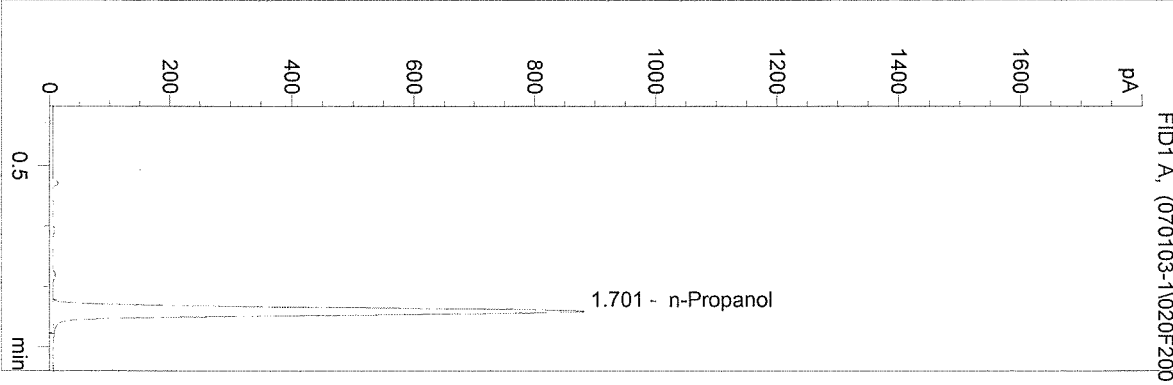
7/1/03 10:19:53 AM

Instrument 1

ALC1

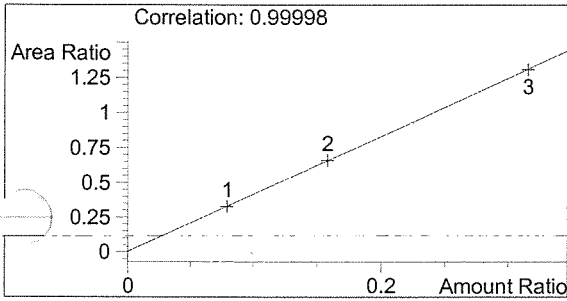
BLANK
MARY WILSON

vial # 20

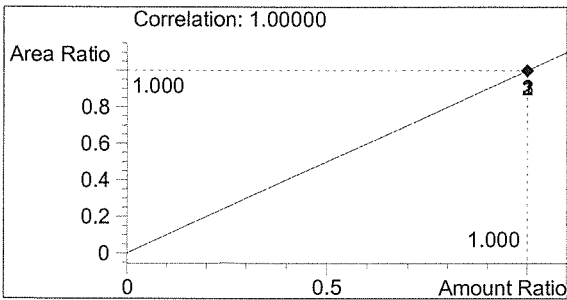


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3705	1.701

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml