

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 **0.08** g/210L **Quality Assurance solution**

Batch number **03031**

Date: 9/17/2003

Preparation: 22.2 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	0.099	0.099	0.100									
2	0.100	0.098	0.101									
3	0.100	0.099	0.099									
4	0.101	0.100	0.099									
5	0.101	0.099	0.099									
Ctrl	0.101	0.099	0.098									

External Control:

Lot #: A024546 Exp date: 09/05

Target concentration: 0.10 g/100mL

Statistics:

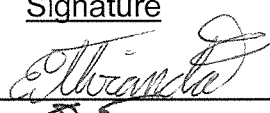
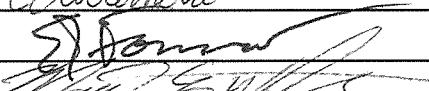
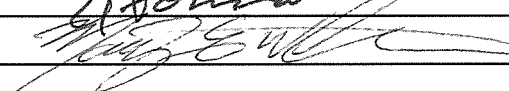
Avg. solution concent.: 0.0996 g/100 mL

SD: 0.00091

Range (3xSD): 0.0969 to 0.1023

Precision CV (%): 0.9139 %

Equivalent vapor concent.: 0.0810 g/210L

Analyst	Name	Signature	Date
1	Estuardo J. Miranda		09/17/03
2	Edward Formoso		09/17/03
3	Mary E Wilson		09/19/03
4			
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Estuardo J. Miranda according to the approved protocol



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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 test instrument.

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

The quality assurance solution, Lot Number 03031 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0996 grams per 100ml.

Dated: 9/23/03
Seattle, WA

Estuardo J. Miranda
Forensic Toxicologist

EM/bf
EMQA





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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 03031, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0996 grams per 100ml.

Dated: 9/23/03
Seattle, WA

Edward J. Formoso
Forensic Toxicologist

EJF/bf
EFQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

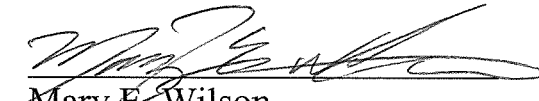
I, Mary E. Wilson, do certify under penalty of perjury as follows:

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, including one year in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03031, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0996 grams per 100ml.

Dated: 9/23/03
Seattle, WA


Mary E. Wilson
Forensic Toxicologist

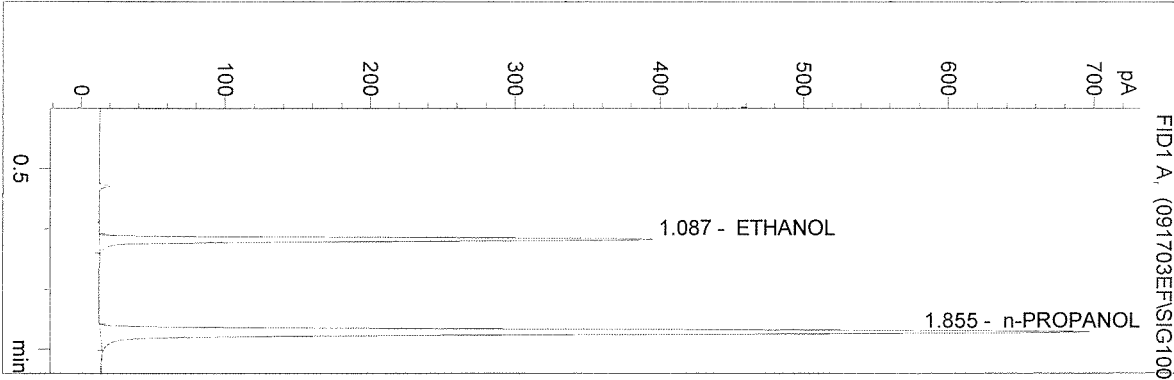
MEW/bf
MEWQA



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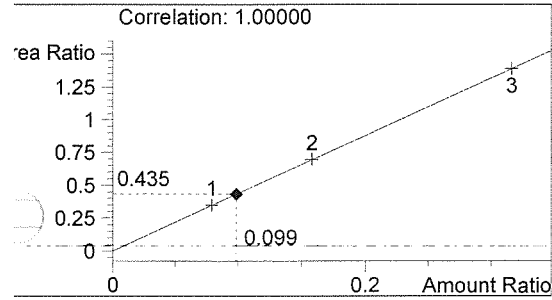
03031
 ED FORMOSO

vial # 24

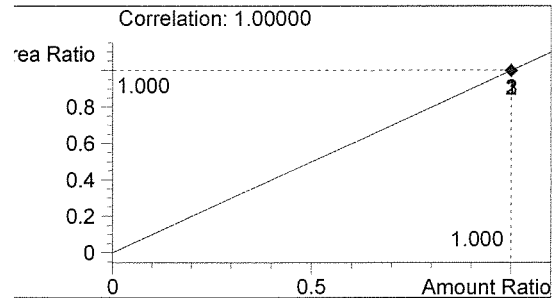


#	Compound	Area	RT
1	ETHANOL	867	1.087
2	n-PROPANOL	1990	1.855

Totals:



ETHANOL 0.099 g/100mL

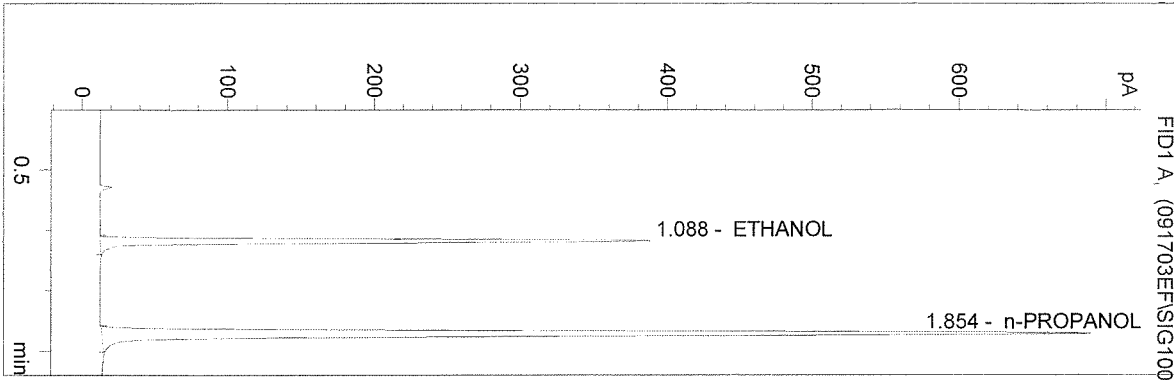


n-PROPANOL 1.000 g/100mL

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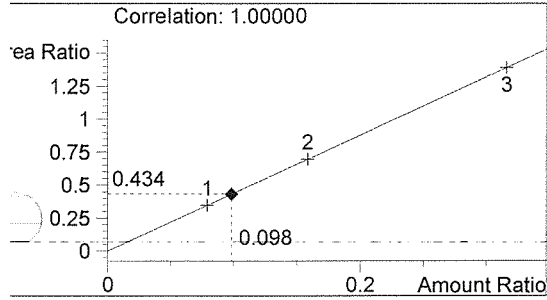
03031
 ED FORMOSO

vial # 25

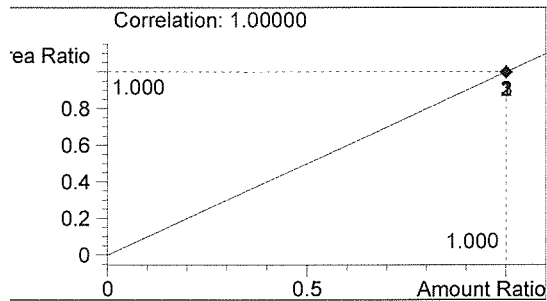


#	Compound	Area	RT
1	ETHANOL	856	1.088
2	n-PROPANOL	1971	1.854

Totals:



ETHANOL 0.098 g/100mL

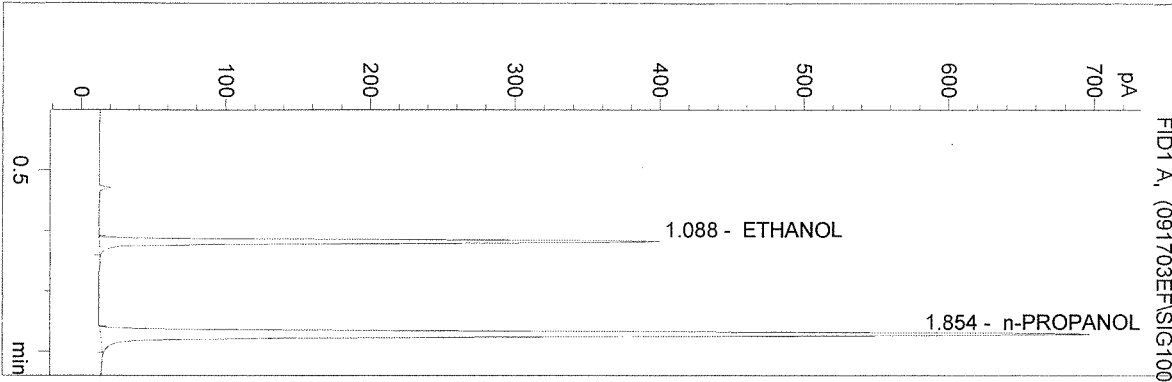


n-PROPANOL 1.000 g/100mL

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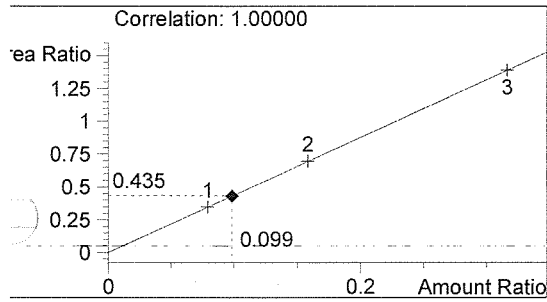
03031
 ED FORMOSO

vial # 26

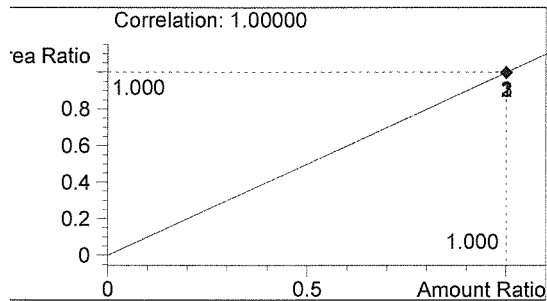


#	Compound	Area	RT
1	ETHANOL	862	1.088
2	n-PROPANOL	1985	1.854

Totals:



ETHANOL 0.099 g/100mL

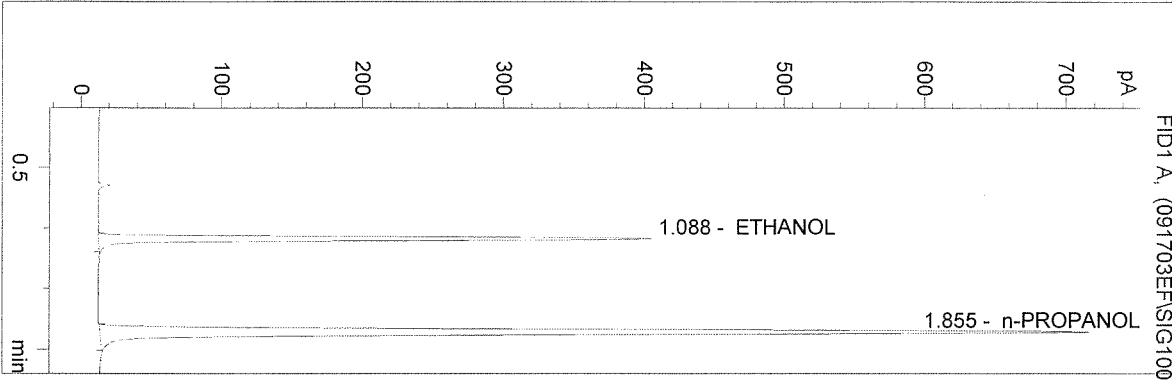


n-PROPANOL 1.000 g/100mL

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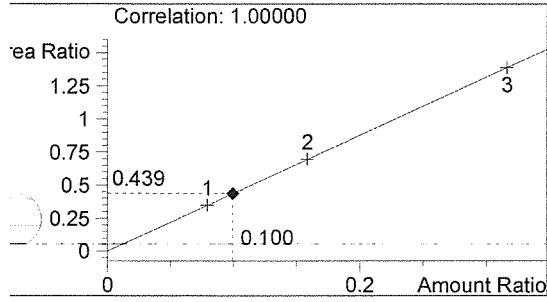
03031
 ED FORMOSO

vial # 27

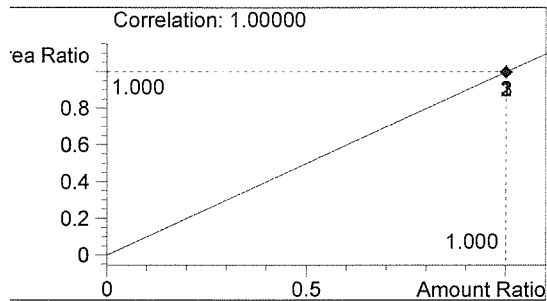


#	Compound	Area	RT
1	ETHANOL	905	1.088
2	n-PROPANOL	2059	1.855

Totals:



ETHANOL 0.100 g/100mL



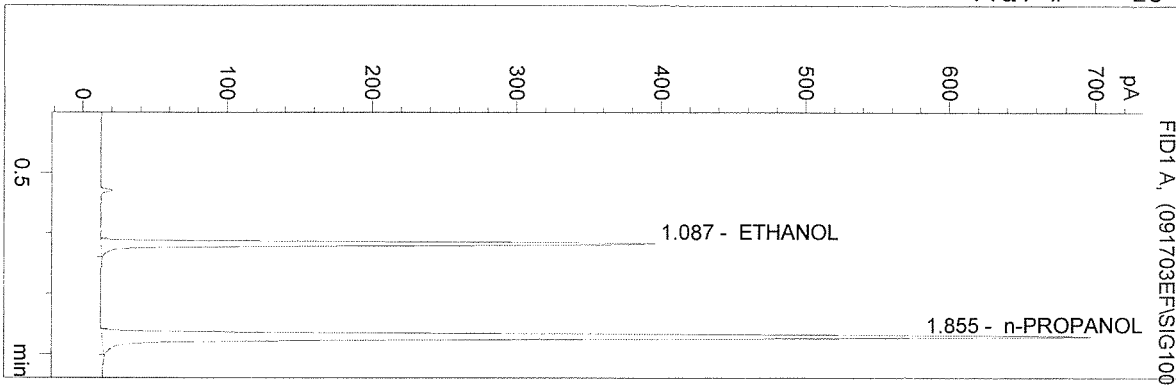
n-PROPANOL 1.000 g/100mL

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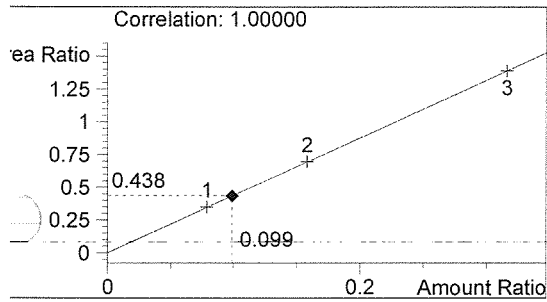
03031
 ED FORMOSO

vial # 28

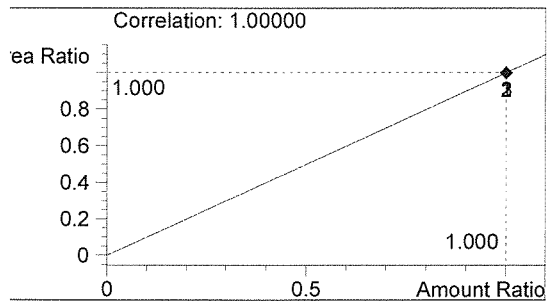


#	Compound	Area	RT
1	ETHANOL	874	1.087
2	n-PROPANOL	1996	1.855

Totals:



ETHANOL 0.099 g/100mL

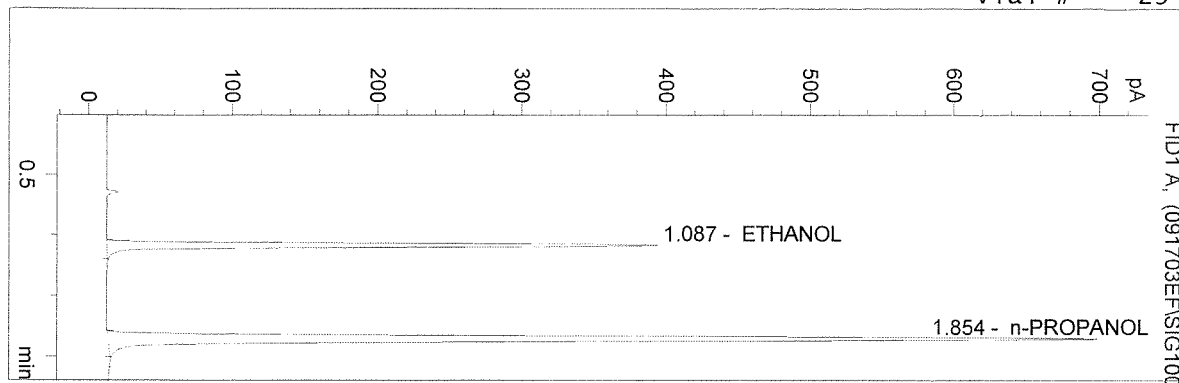


n-PROPANOL 1.000 g/100mL

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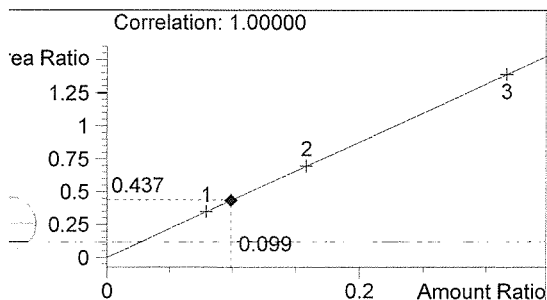
0.10 CONTROL
 ED FORMOSO

vial # 29

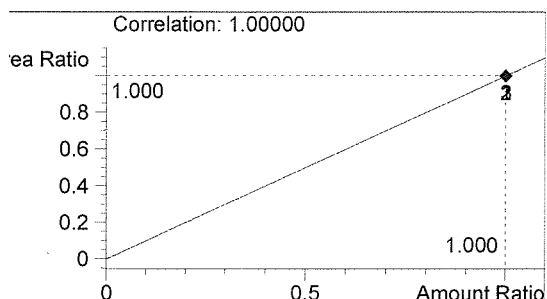


#	Compound	Area	RT
1	ETHANOL	876	1.087
2	n-PROPANOL	2004	1.854

Totals:



ETHANOL 0.099 g/100mL



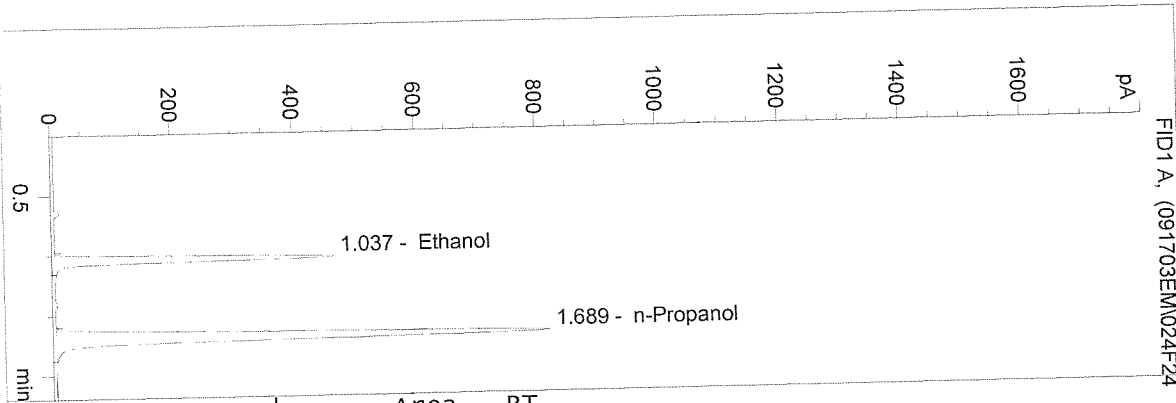
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

HPCHEM\2\METHODS\BLDALCO2.M
 7/03 10:51:57 AM
 trument 2
 ALC1

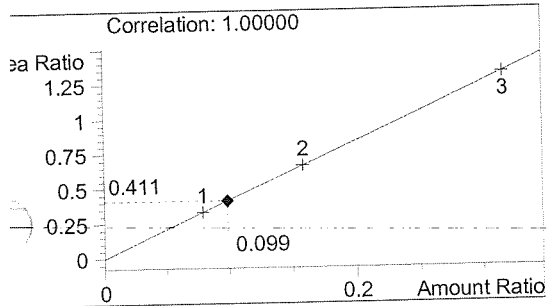
03031 Q.A. Sol.
 Estuardo J. Miranda

vial # 24

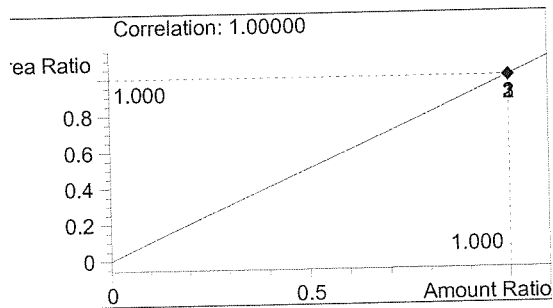


#	Compound	Area	RT
1	Ethanol	1428	1.037
2	n-Propanol	3471	1.689

Totals:



Ethanol 0.099 g/100ml

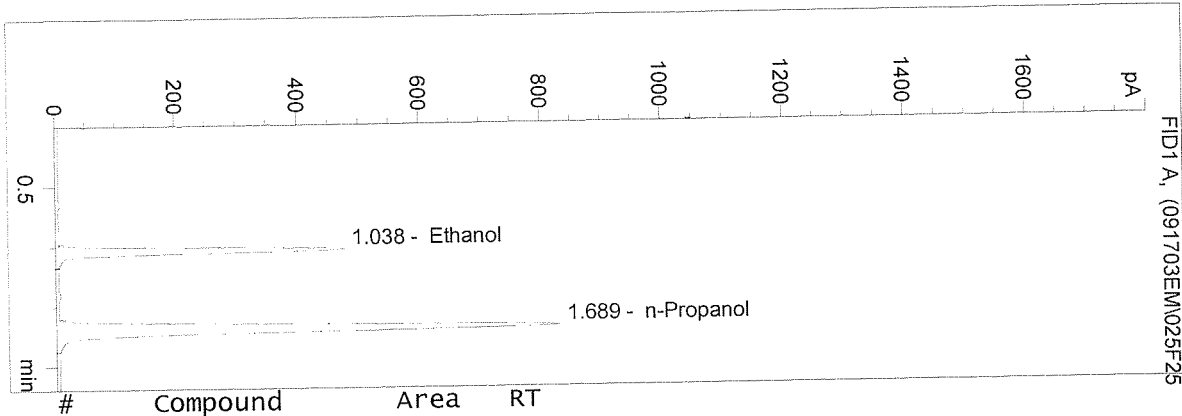


n-Propanol 1.000 g/100ml

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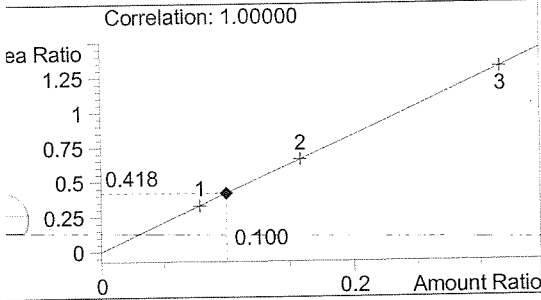
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 Instrument 2
 ALC1

03031 Q.A. Sol.
 Estuardo J. Miranda
 vial # 25

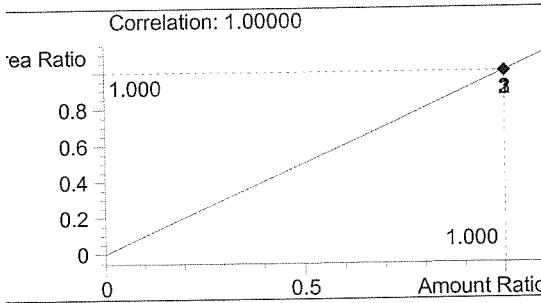


#	Compound	Area	RT
1	Ethanol	1468	1.038
2	n-Propanol	3516	1.689

Totals:



Ethanol 0.100 g/100ml



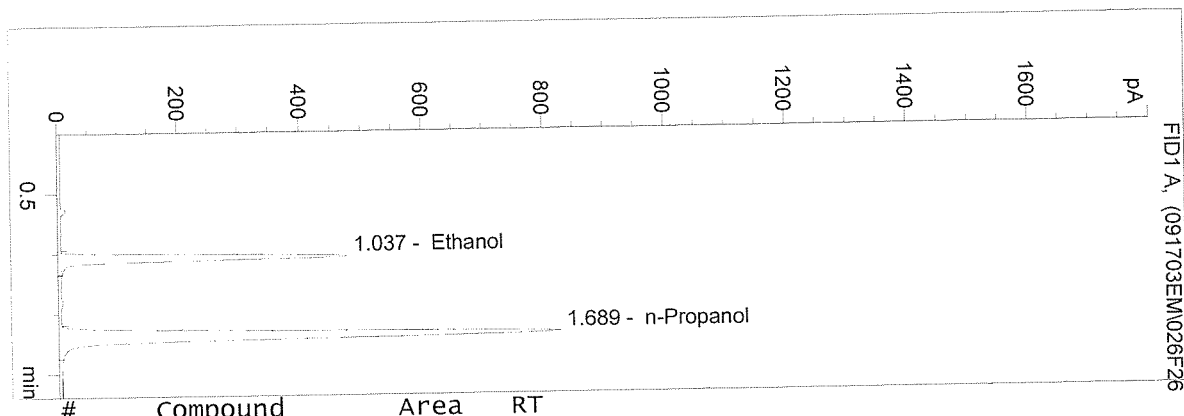
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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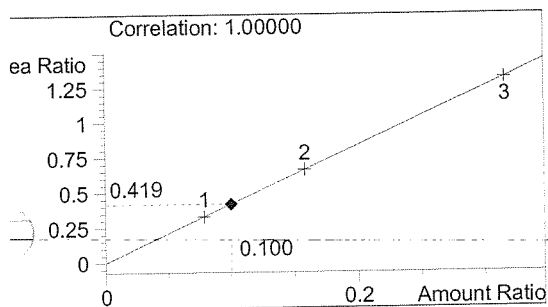
03031 Q.A. Sol.
 Estuardo J. Miranda

vial # 26

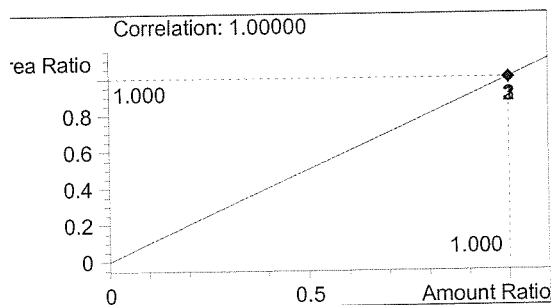


#	Compound	Area	RT
1	Ethanol	1466	1.037
2	n-Propanol	3501	1.689

Totals:



Ethanol 0.100 g/100ml



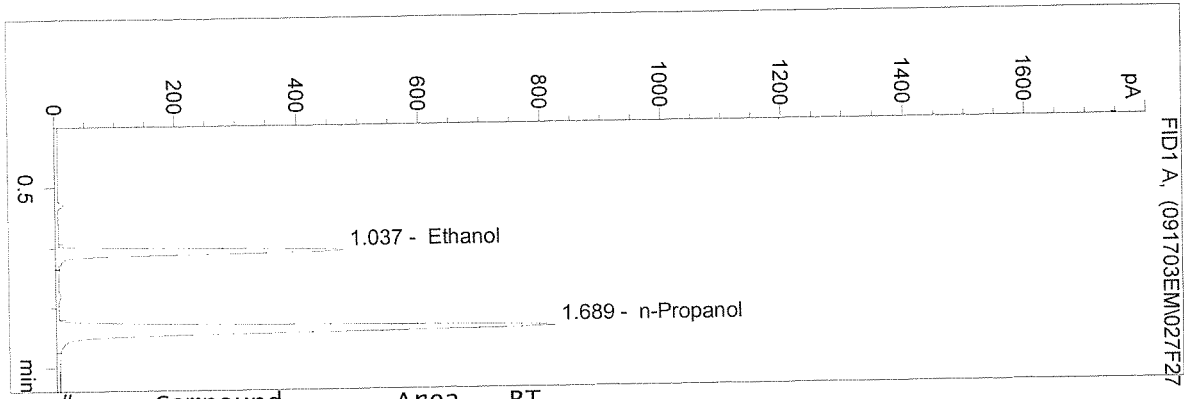
n-Propanol 1.000 g/100ml

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 17/03 11:01:19 AM
 Instrument 2
 ALC1

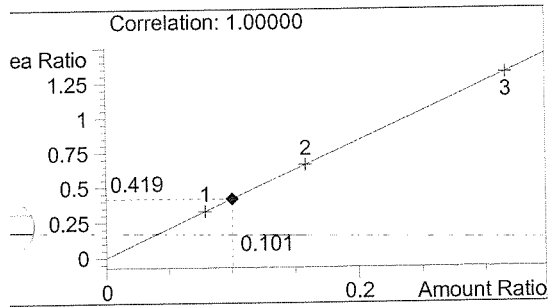
03031 Q.A. Sol.
 Estuardo J. Miranda

vial # 27

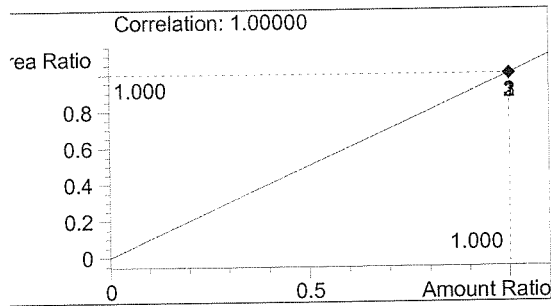


#	Compound	Area	RT
1	Ethanol	1457	1.037
2	n-Propanol	3477	1.689

Totals:



Ethanol 0.101 g/100ml



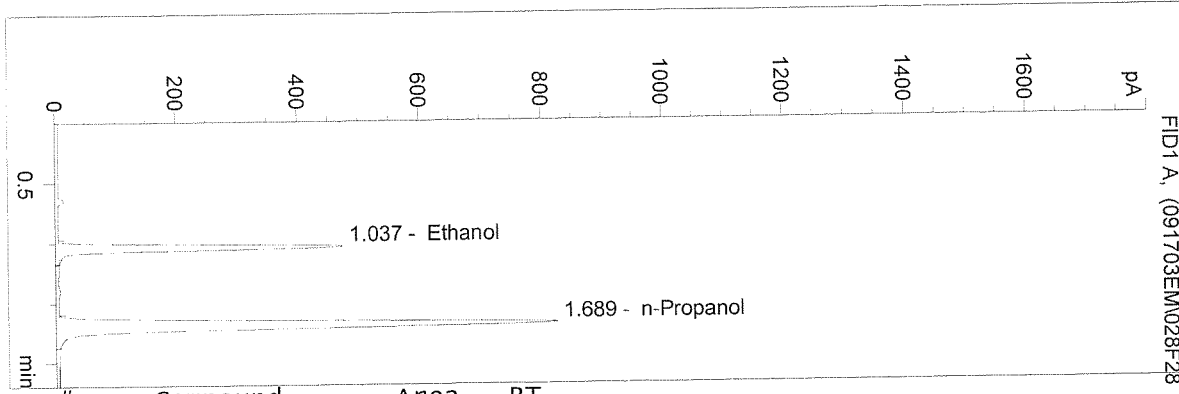
n-Propanol 1.000 g/100ml

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\\HPCHEM\2\METHODS\BLDALCO2.M
 17/03 11:04:20 AM
 strument 2
 ALC1

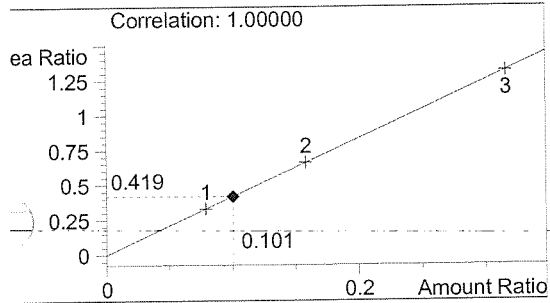
03031 Q.A. Sol.
 Estuardo J. Miranda

vial # 28

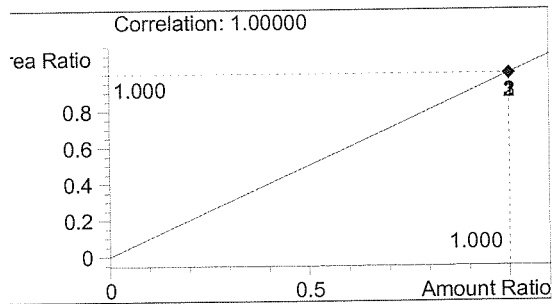


#	Compound	Area	RT
1	Ethanol	1459	1.037
2	n-Propanol	3483	1.689

Totals:



Ethanol 0.101 g/100ml

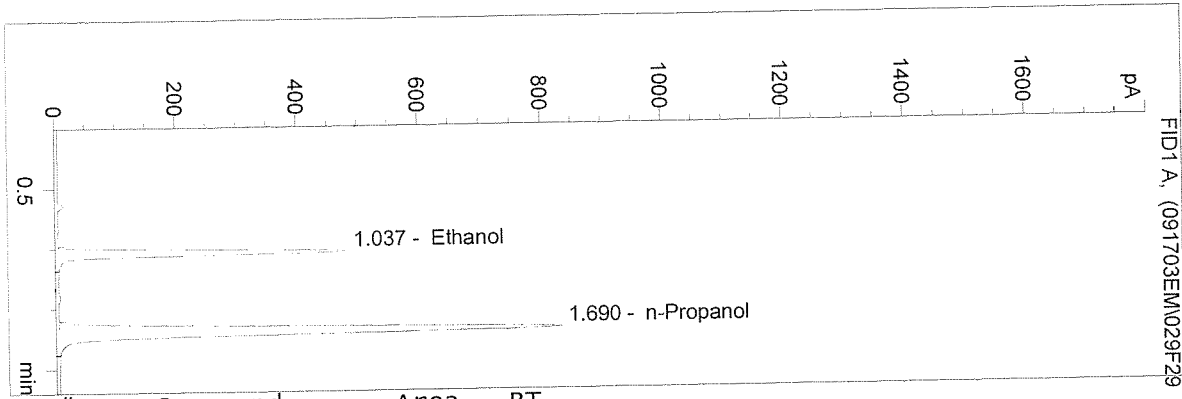


n-Propanol 1.000 g/100ml

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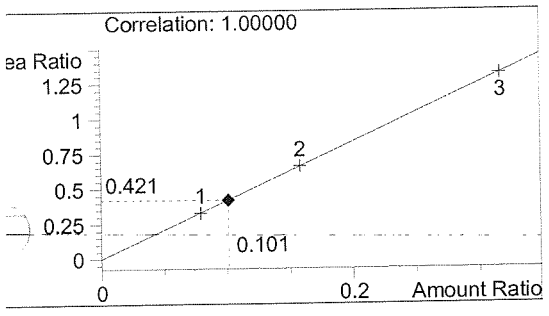
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 Instrument 2
 ALC1

0.100 Control
 Estuardo J. Miranda
 vial # 29

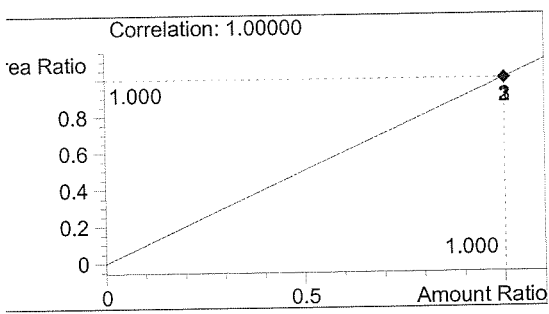


#	Compound	Area	RT
1	Ethanol	1479	1.037
2	n-Propanol	3516	1.690

Totals:



Ethanol 0.101 g/100ml

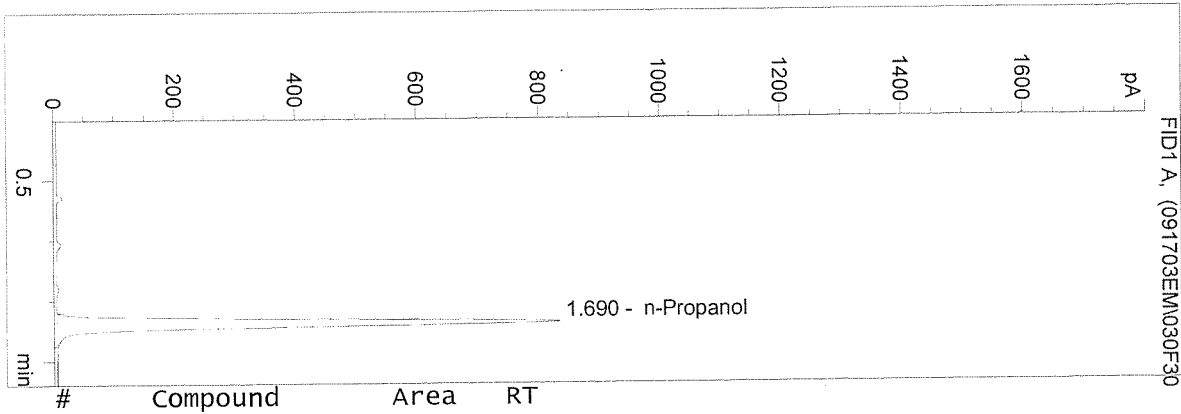


n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

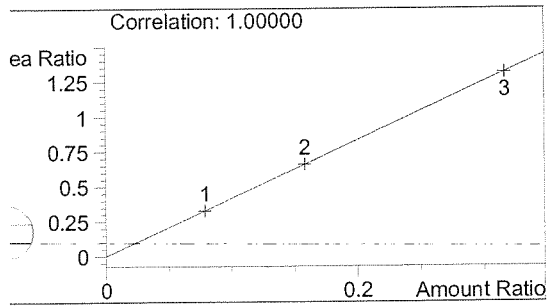
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 Estuardo J. Miranda
 vial # 30

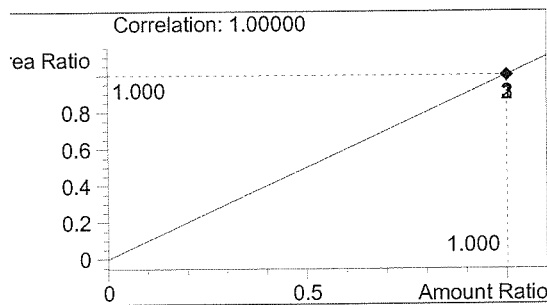


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3520	1.690

Totals:



Ethanol 0.000 g/100ml



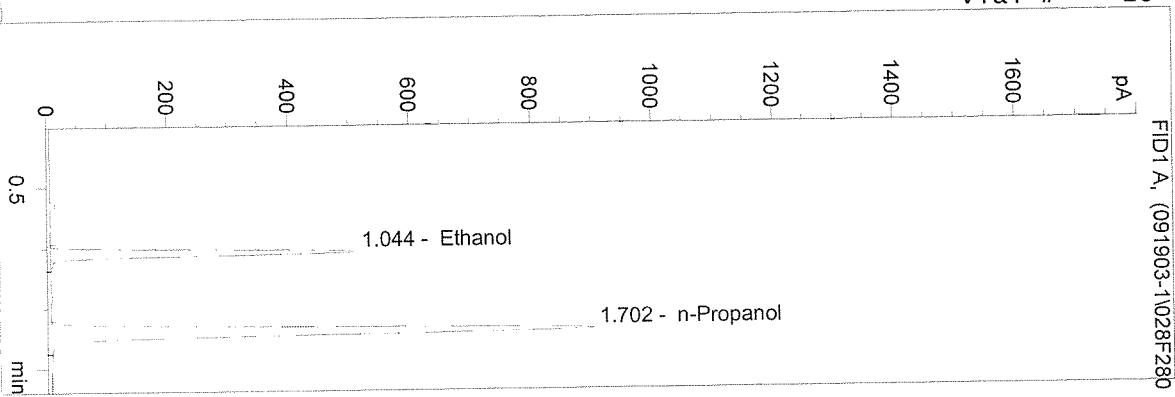
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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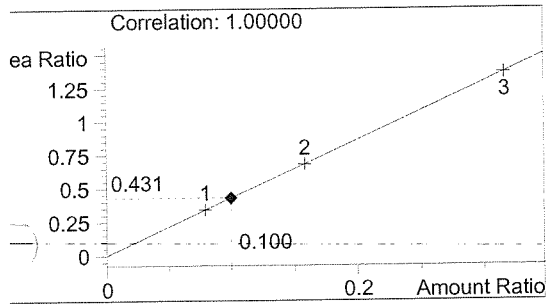
03031QA
 MARY WILSON

vial # 28

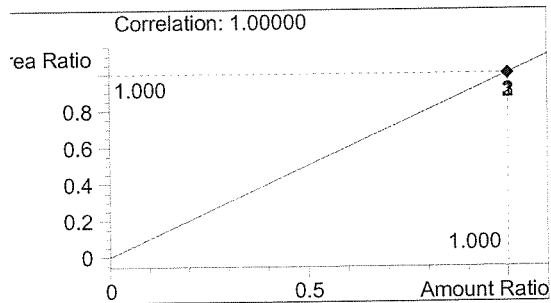


#	Compound	Area	RT
1	Ethanol	1679	1.044
2	n-Propanol	3899	1.702

Totals:



Ethanol 0.100 g/100ml



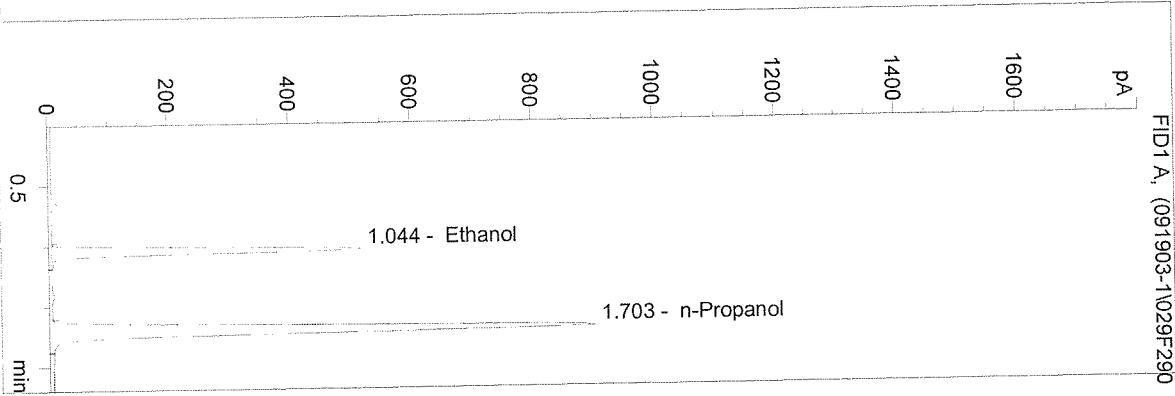
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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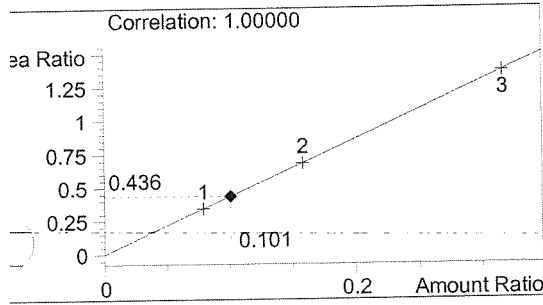
03031QA
 MARY WILSON

vial # 29

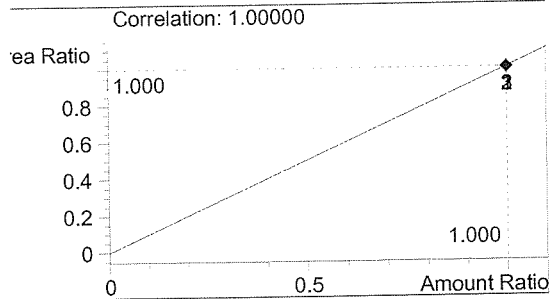


#	Compound	Area	RT
1	Ethanol	1705	1.044
2	n-Propanol	3908	1.703

Totals:



Ethanol 0.101 g/100ml



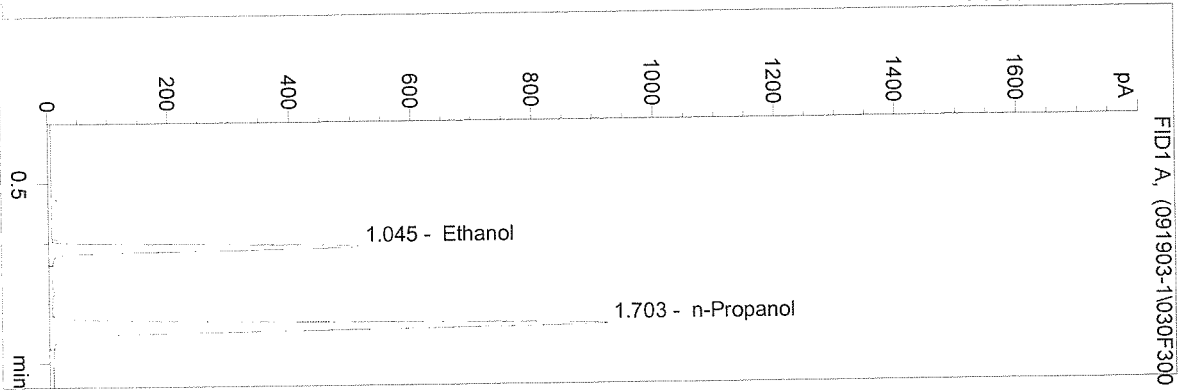
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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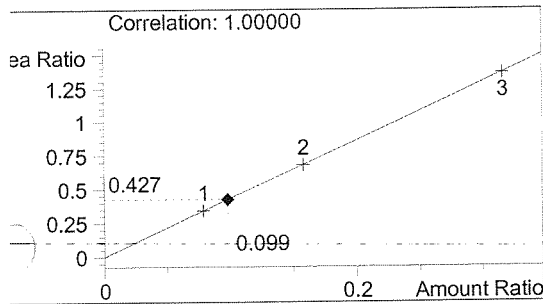
03031QA
 MARY WILSON

vial # 30

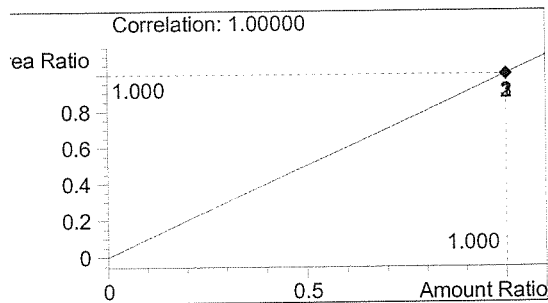


#	Compound	Area	RT
1	Ethanol	1714	1.045
2	n-Propanol	4017	1.703

Totals:



Ethanol 0.099 g/100ml



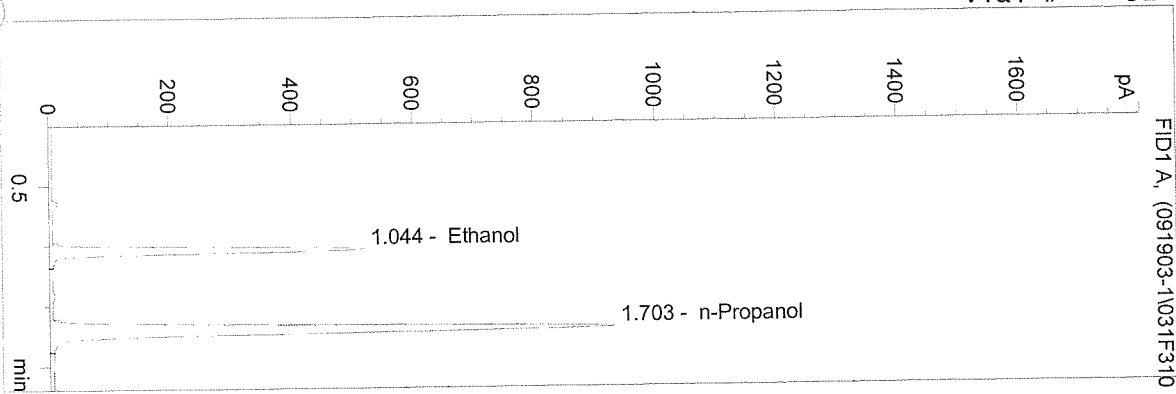
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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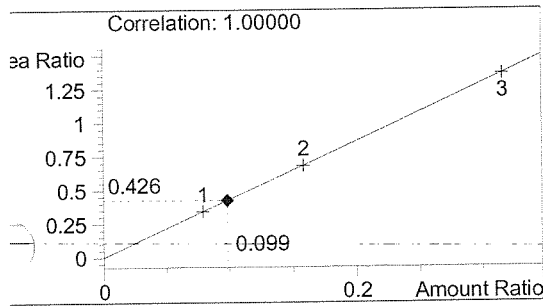
03031QA
 MARY WILSON

vial # 31

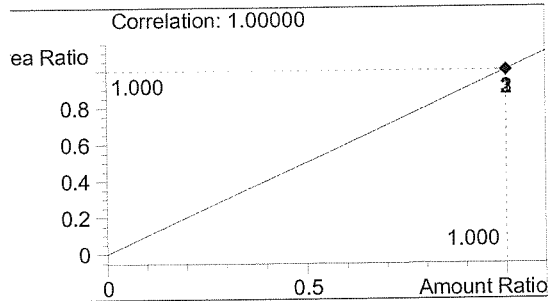


#	Compound	Area	RT
1	Ethanol	1723	1.044
2	n-Propanol	4043	1.703

Totals:



Ethanol 0.099 g/100ml



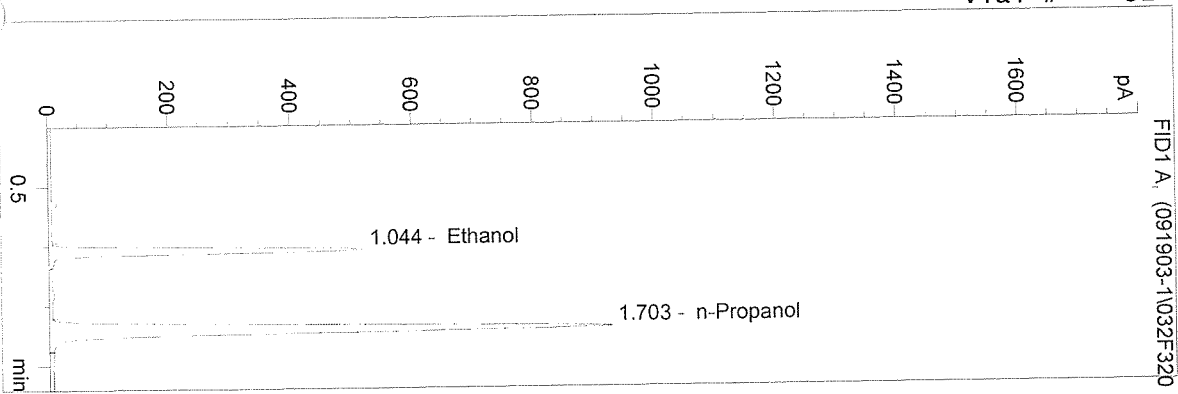
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

\\HPCHEM\1\METHODS\BLDALCO.M
 19/03 10:57:43 AM
 Instrument 1
 -ALC1

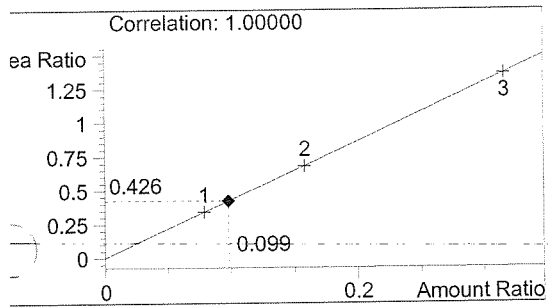
03031QA
 MARY WILSON

vial # 32

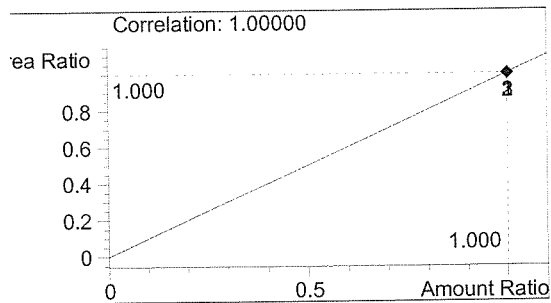


#	Compound	Area	RT
1	Ethanol	1709	1.044
2	n-Propanol	4015	1.703

Totals:



Ethanol 0.099 g/100ml



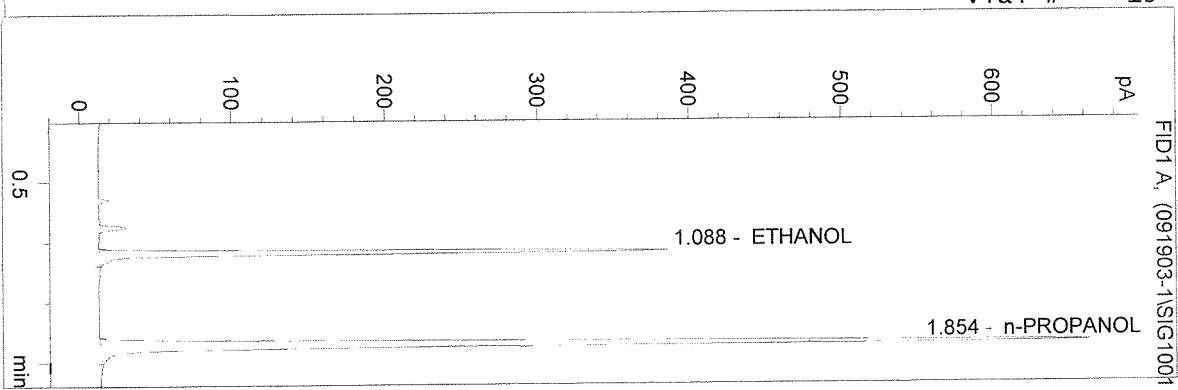
n-Propanol 1.000 g/100ml

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\HPCHEM\1\METHODS\BLDALCO3.M
 19/03 10:20:48 AM
 Instrument 3

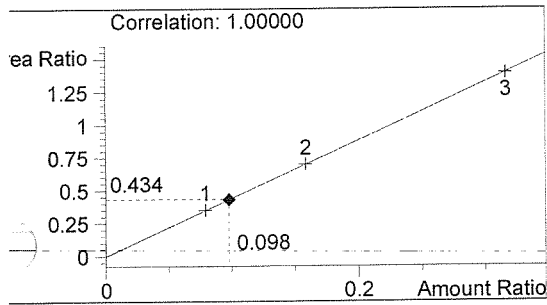
0.10CTL
 MARY WILSON

vial # 19

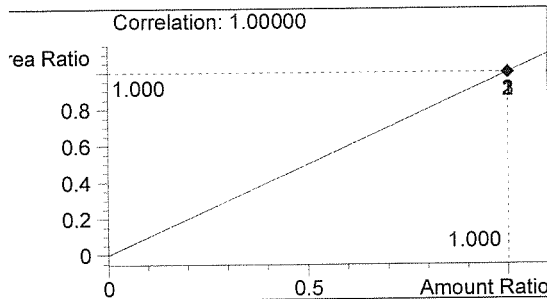


#	Compound	Area	RT
1	ETHANOL	808	1.088
2	n-PROPANOL	1862	1.854

Totals:



ETHANOL 0.098 g/100mL



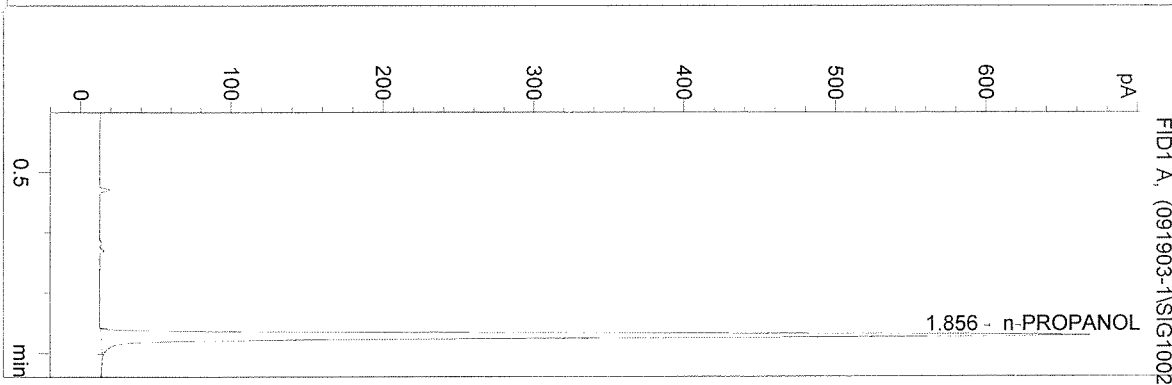
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

:\HPCHEM\1\METHODS\BLDALCO3.M
 /19/03 10:23:52 AM
 Instrument 3

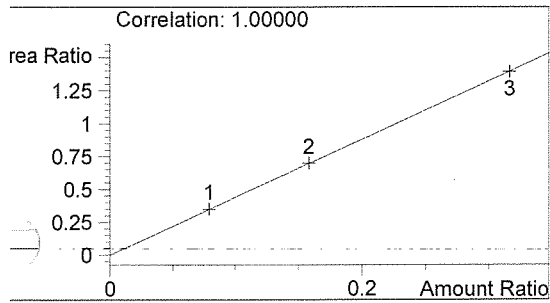
BLANK
 MARY WILSON

vial # 20

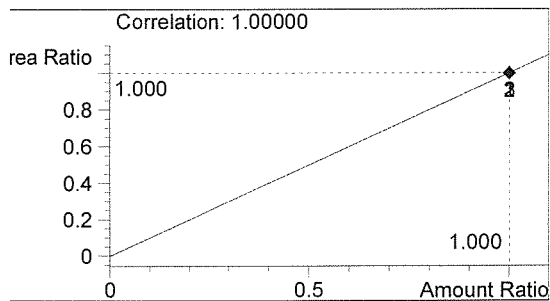


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	1891	1.856

Totals:



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL