

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

Batch number **03033**

Date: 9/17/2003

Preparation: 42.3 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	0.190	0.187	0.191									
2	0.192	0.187	0.192									
3	0.193	0.187	0.191									
4	0.192	0.187	0.188									
5	0.192	0.187	0.191									
Ctrl	0.102	0.097	0.099									

External Control:

Lot #: A024546 Exp date: 09/05

Target concentration: 0.10 g/100mL

Statistics:

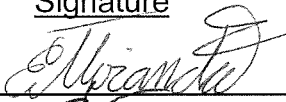
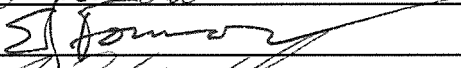
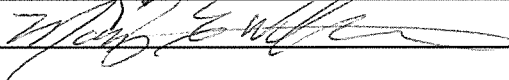
Avg. solution concent.: 0.1898 g/100 mL

SD: 0.00234

Range (3xSD): 0.1828 to 0.1968

Precision CV (%): 1.2308 %

Equivalent vapor concent.: 0.1543 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 03033 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1898 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 03033, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1898 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

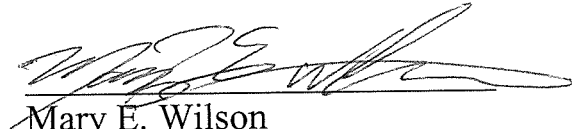
I, Mary E. Wilson, do certify under penalty of perjury as follows:

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 03033, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1898 grams per 100ml.

Dated: 9/23/03
Seattle, WA


Mary E. Wilson
Forensic Toxicologist

MEW/bf
MEWQA

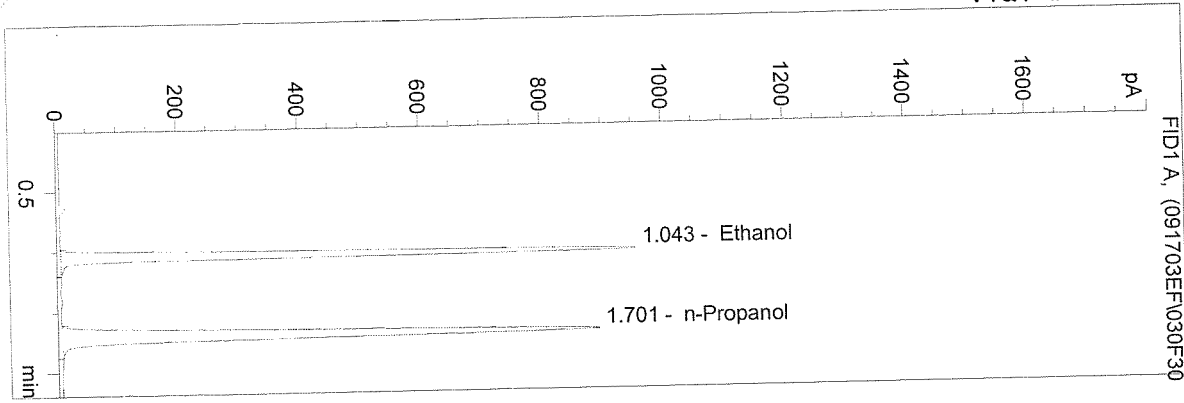


WASHINGTON STATE TOXICOLOGY LABORATORY

HPCHEM\1\METHODS\BLDALCO.M
 7/03 4:36:50 PM
 Instrument 1
 ALC1

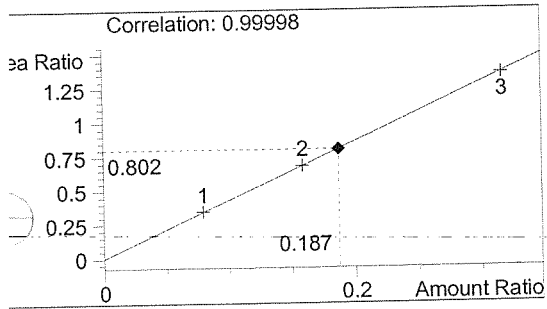
03033
 ED FORMOSO

vial # 30

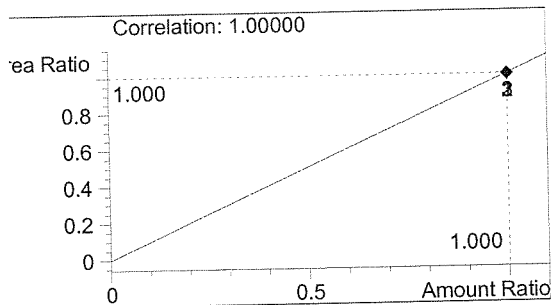


#	Compound	Area	RT
1	Ethanol	3065	1.043
2	n-Propanol	3823	1.701

Totals:



Ethanol 0.187 g/100ml



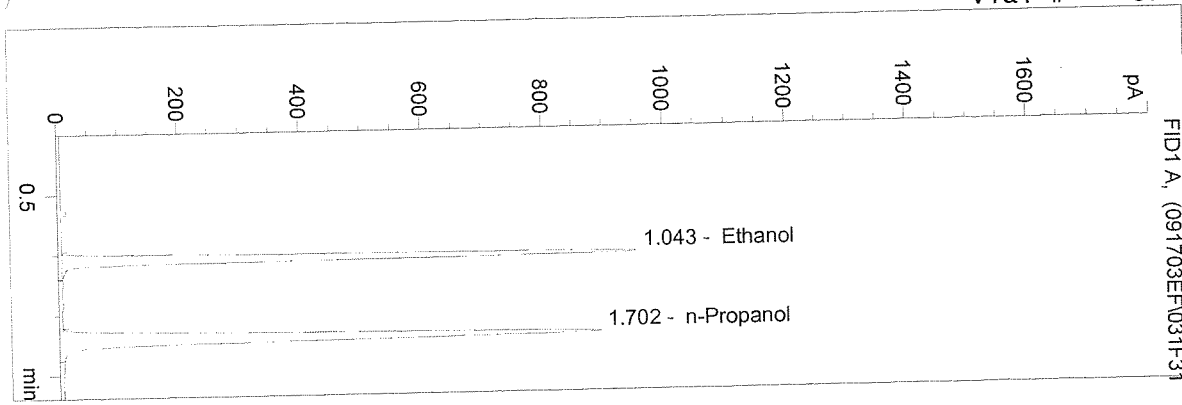
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 1
 ALC1

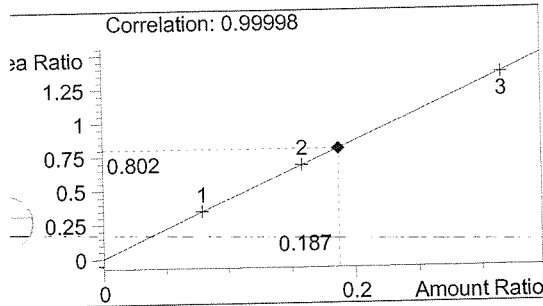
03033
 ED FORMOSO

vial # 31

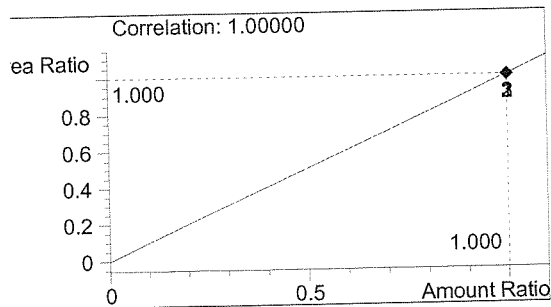


#	Compound	Area	RT
1	Ethanol	3077	1.043
2	n-Propanol	3838	1.702

Totals:



Ethanol 0.187 g/100ml



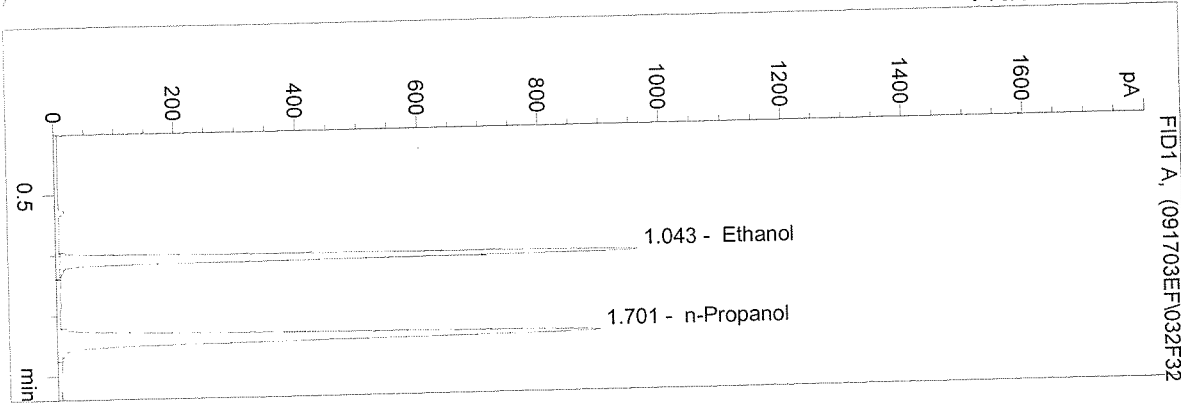
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

HPCHEM\1\METHODS\BLDALCO.M
 7/03 4:42:54 PM
 trument 1
 ALC1

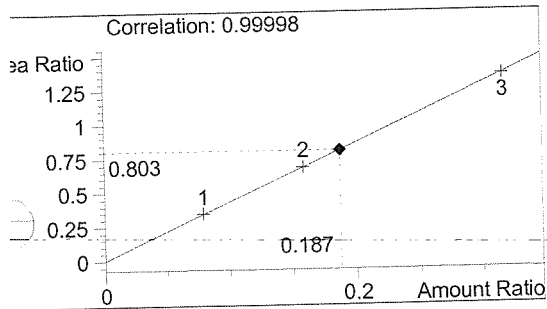
03033
 ED FORMOSO

vial # 32

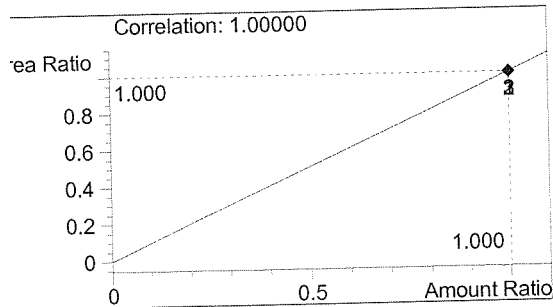


#	Compound	Area	RT
1	Ethanol	3082	1.043
2	n-Propanol	3837	1.701

Totals:



Ethanol 0.187 g/100ml



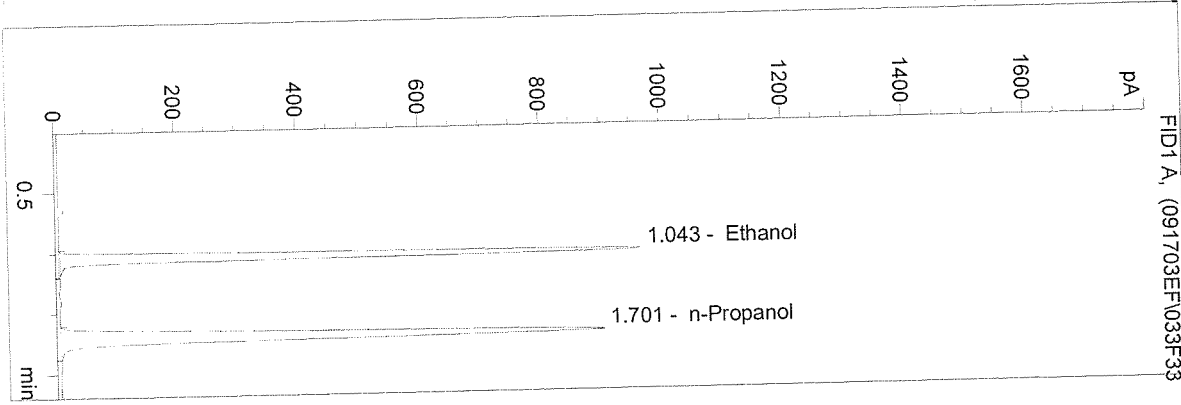
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 ALC1

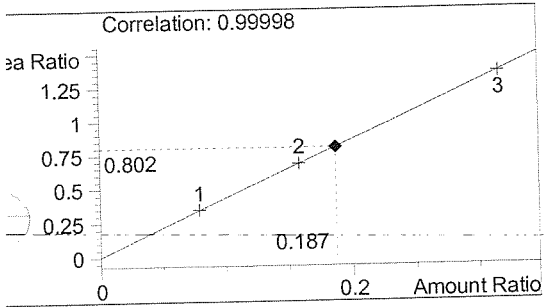
03033
 ED FORMOSO

vial # 33

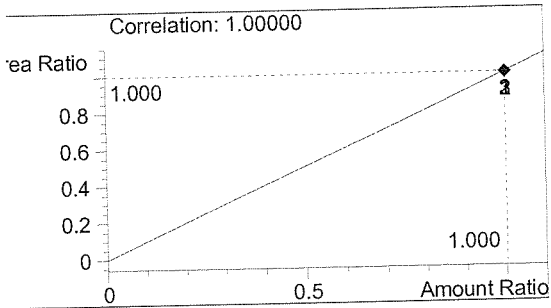


#	Compound	Area	RT
1	Ethanol	3112	1.043
2	n-Propanol	3881	1.701

Totals:



Ethanol 0.187 g/100ml



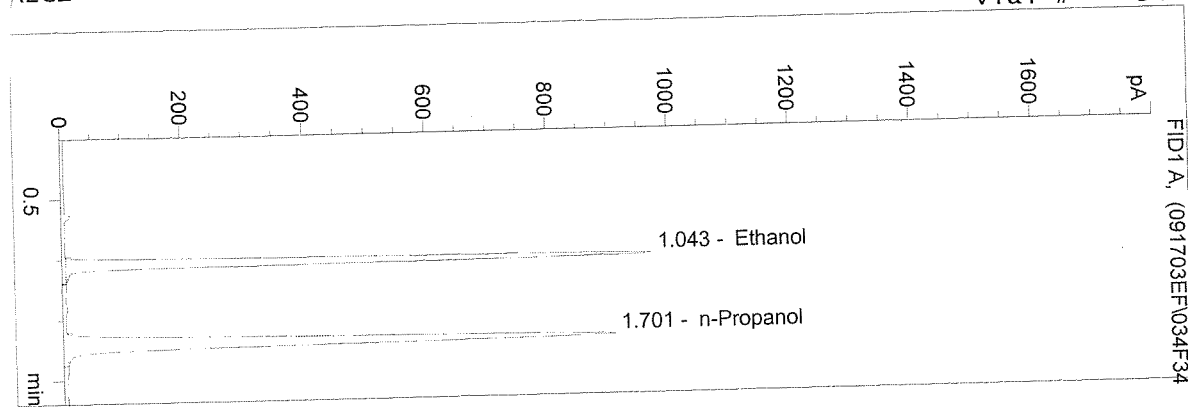
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 7/03 4:49:09 PM
 Instrument 1
 ALC1

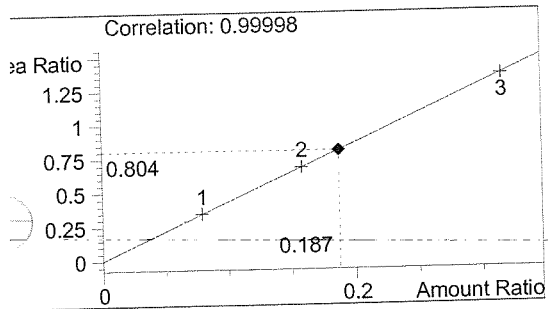
03033
 ED FORMOSO

vial # 34

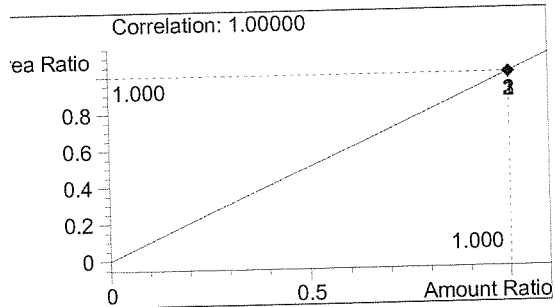


#	Compound	Area	RT
1	Ethanol	3131	1.043
2	n-Propanol	3896	1.701

Totals:



Ethanol 0.187 g/100ml



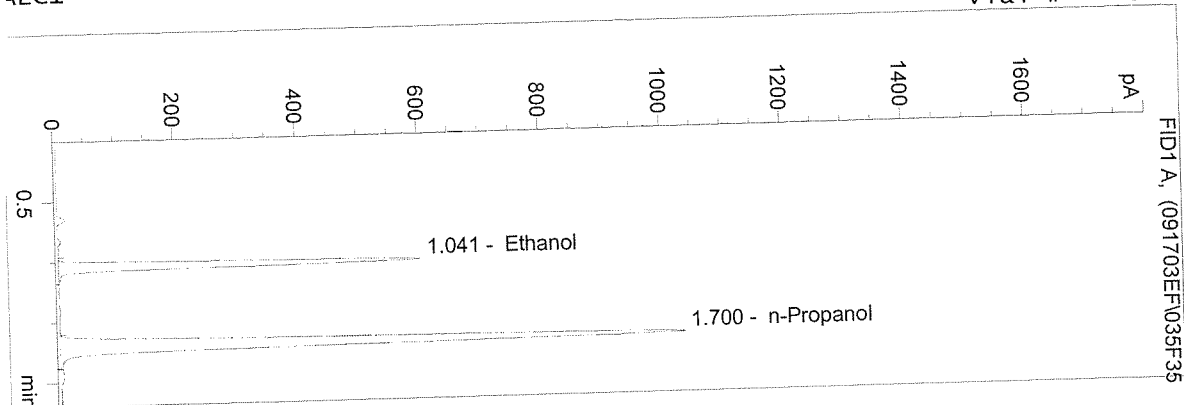
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

IPCHEM\1\METHODS\BLDALCO.M
 3/03 8:24:12 AM
 Instrument 1
 ALC1

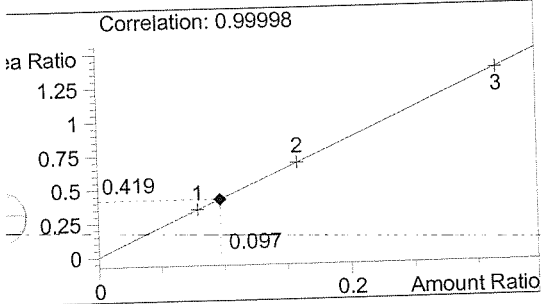
0.10 CONTROL
 ED FORMOSO

vial # 35

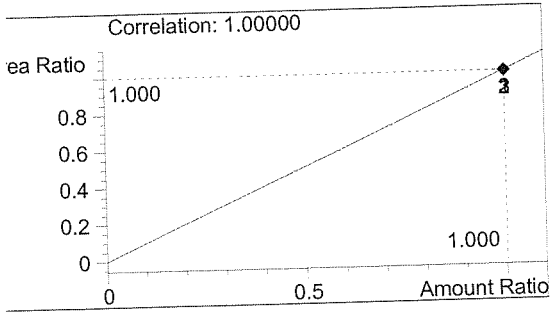


#	Compound	Area	RT
1	Ethanol	1843	1.041
2	n-Propanol	4396	1.700

Totals:



Ethanol 0.097 g/100ml



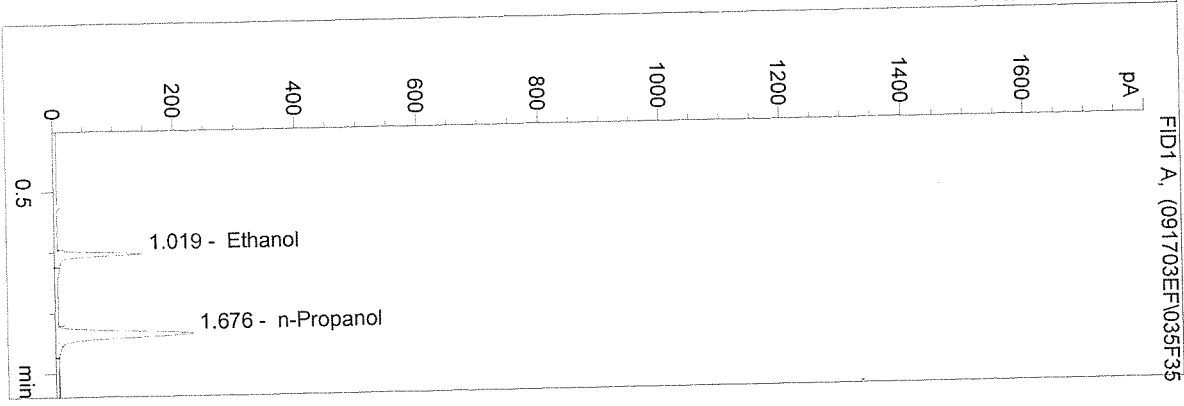
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

HPCHEM\1\METHODS\BLDALCO.M
 7/03 4:52:10 PM
 trument 1
 ALC1

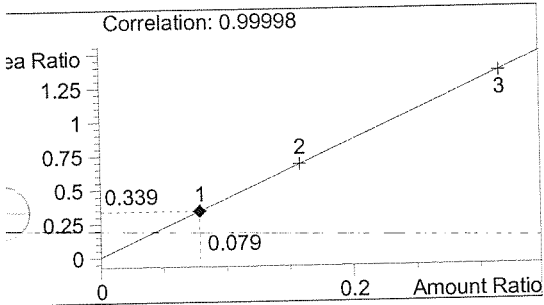
0.10 CONTROL
 ED FORMOSO

vial # 35

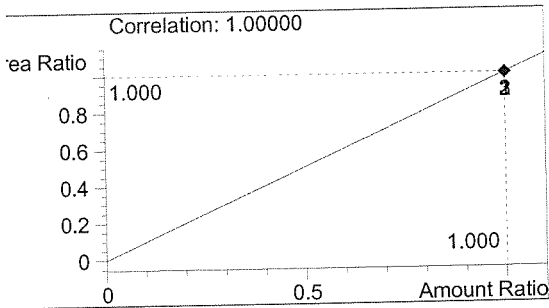


#	Compound	Area	RT
1	Ethanol	297	1.019
2	n-Propanol	875	1.676

Totals:



Ethanol 0.079 g/100ml



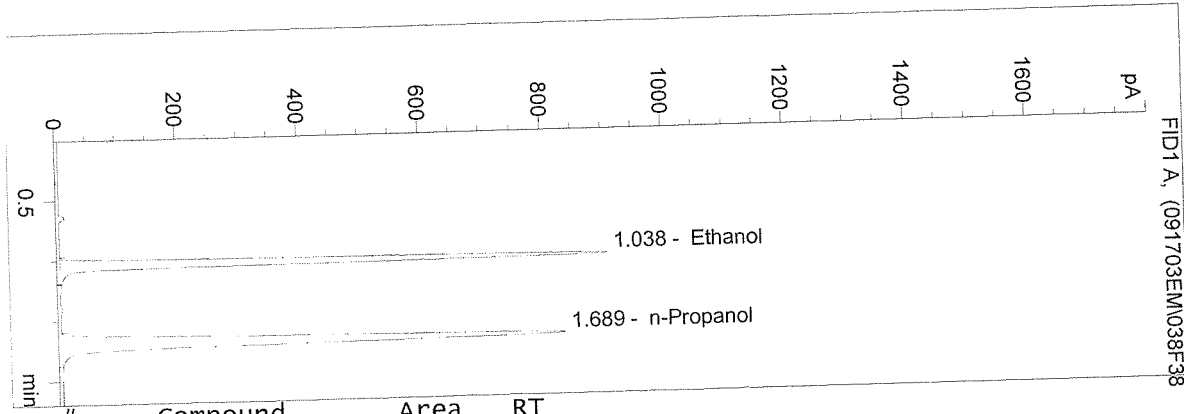
n-Propanol 1.000 g/100ml

REINJECTED — OK

WASHINGTON STATE TOXICOLOGY LABORATORY

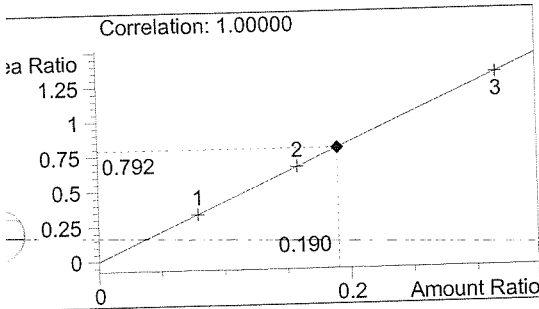
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 Instrument 2
 ALC1

03033 Q.A. Sol.
 Estuardo J. Miranda
 vial # 38

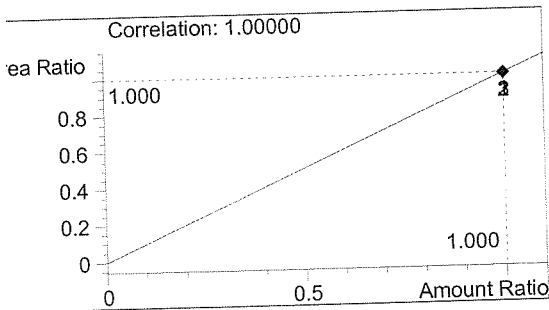


#	Compound	Area	RT
1	Ethanol	2792	1.038
2	n-Propanol	3525	1.689

Totals:



Ethanol 0.190 g/100ml

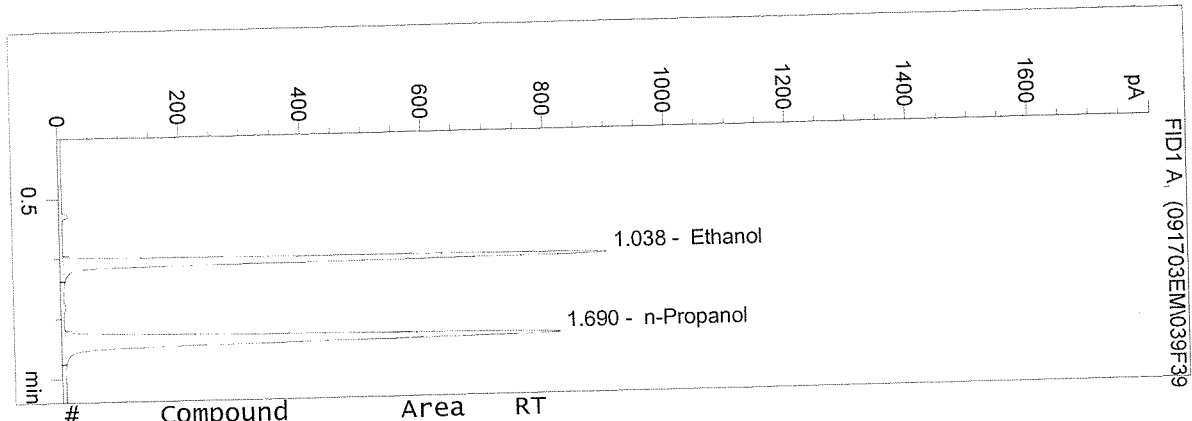


n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

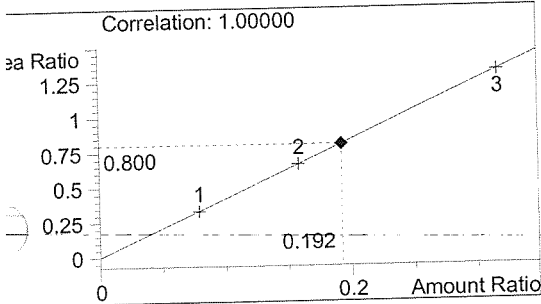
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 trument 2
 ALC1

03033 Q.A. Sol.
 Estuardo J. Miranda
 vial # 39

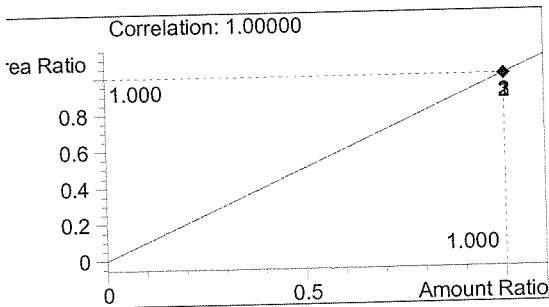


#	Compound	Area	RT
1	Ethanol	2784	1.038
2	n-Propanol	3479	1.690

Totals:



Ethanol 0.192 g/100ml

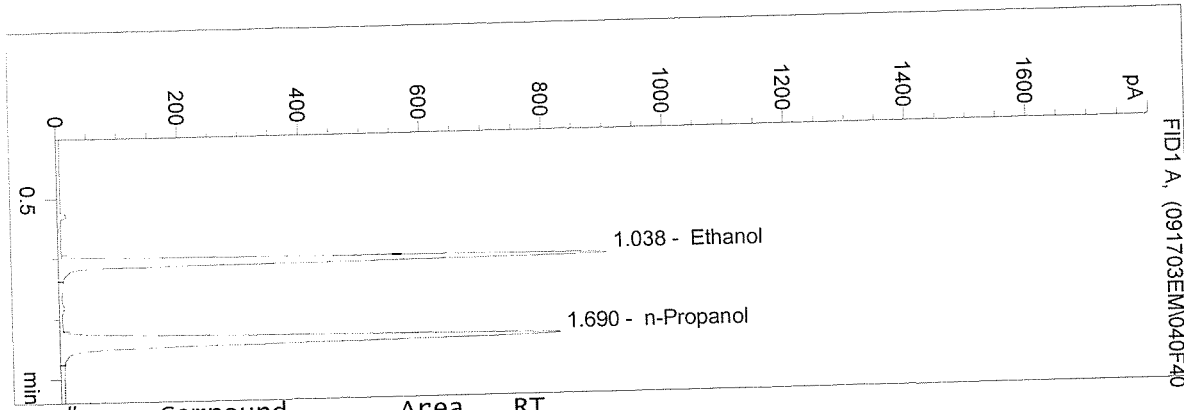


n-Propanol 1.000 g/100ml

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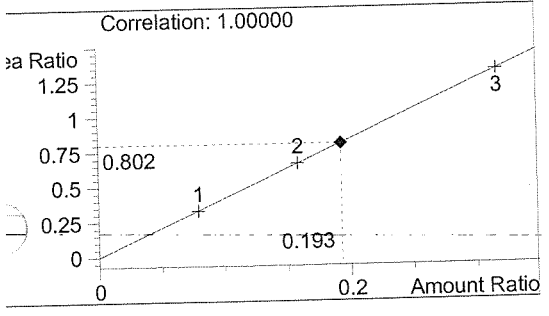
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 trument 2
 ALC1

03033 Q.A. Sol.
 Estuardo J. Miranda
 vial # 40

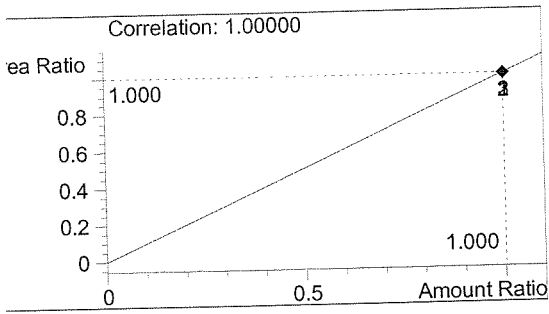


#	Compound	Area	RT
1	Ethanol	2794	1.038
2	n-Propanol	3486	1.690

Totals:



Ethanol 0.193 g/100ml



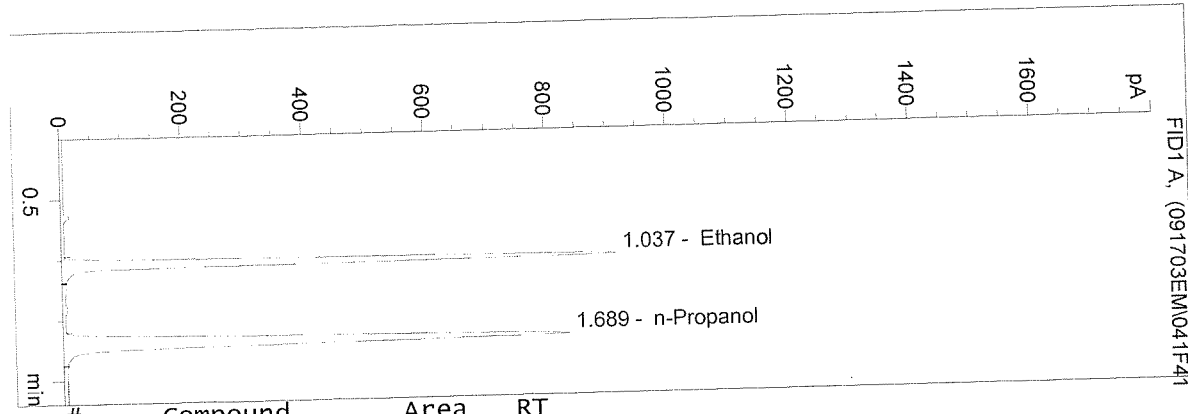
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

HPCHEM\2\METHODS\BLDALCO2.M
 7/03 11:44:34 AM
 Instrument 2
 ALC1

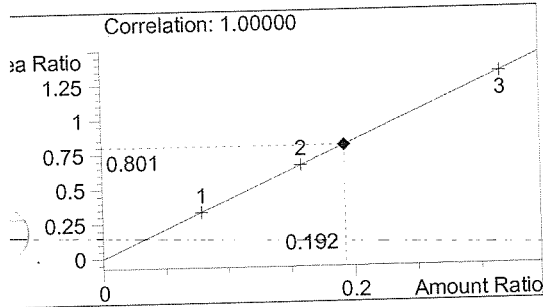
03033 Q.A. Sol.
 Estuardo J. Miranda

vial # 41

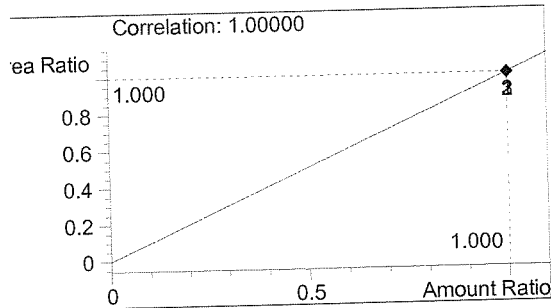


#	Compound	Area	RT
1	Ethanol	2821	1.037
2	n-Propanol	3521	1.689

Totals:



Ethanol 0.192 g/100ml



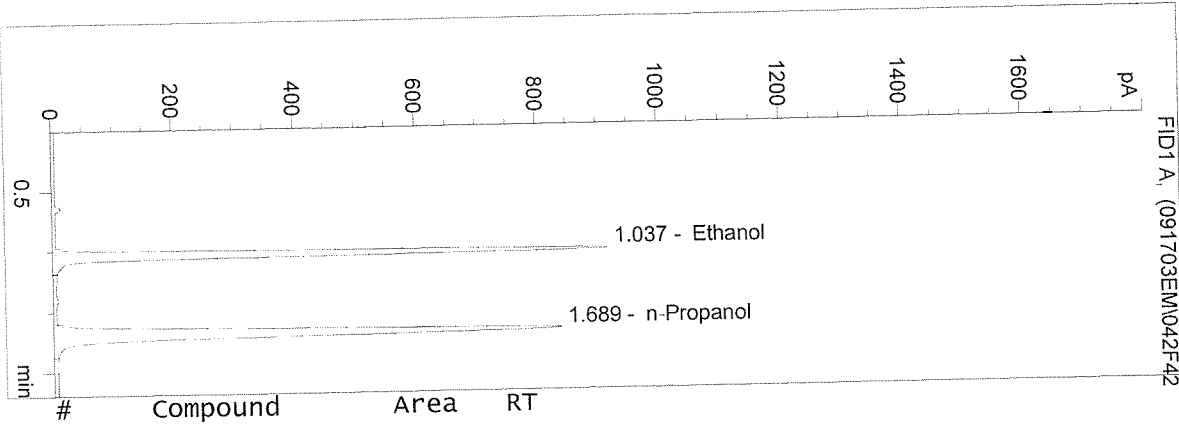
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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 Instrument 2
 ALC1

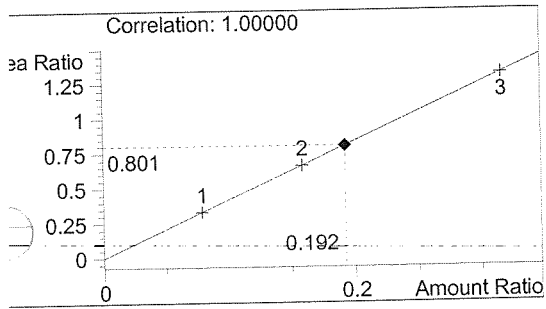
03033 Q.A. Sol.
 Estuardo J. Miranda

vial # 42

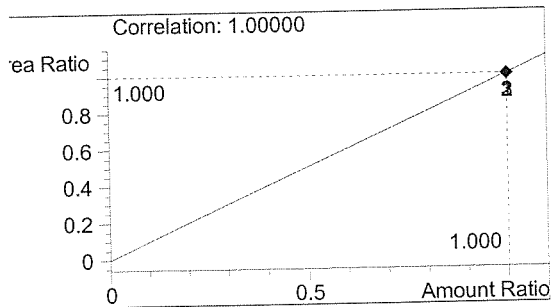


#	Compound	Area	RT
1	Ethanol	2837	1.037
2	n-Propanol	3544	1.689

Totals:



Ethanol 0.192 g/100ml

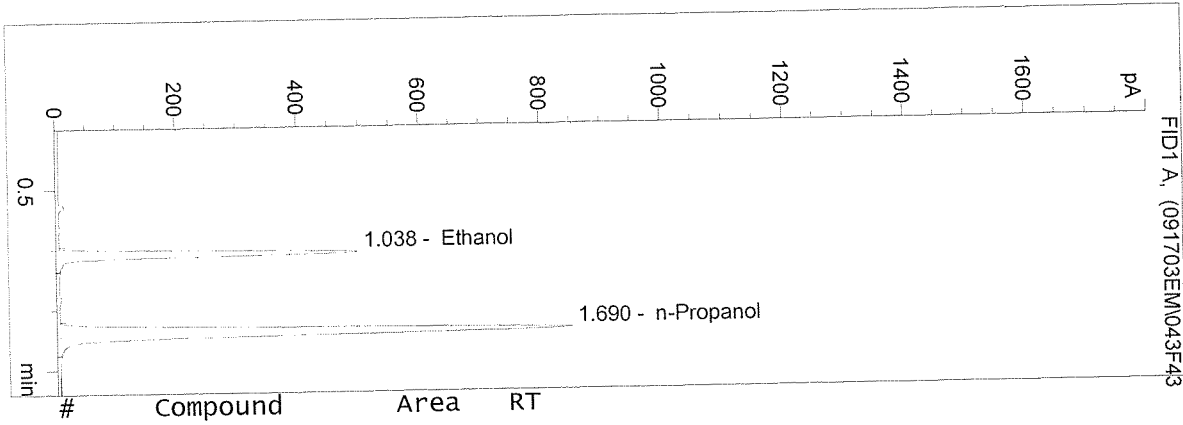


n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

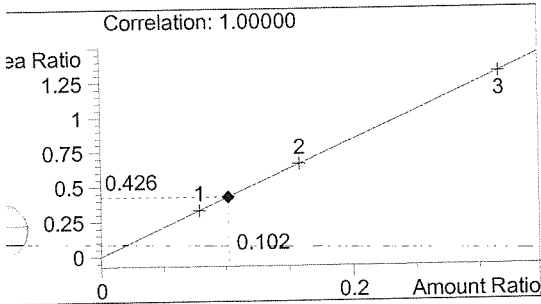
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 Instrument 2
 ALC1

0.100 Control
 Estuardo J. Miranda
 vial # 43

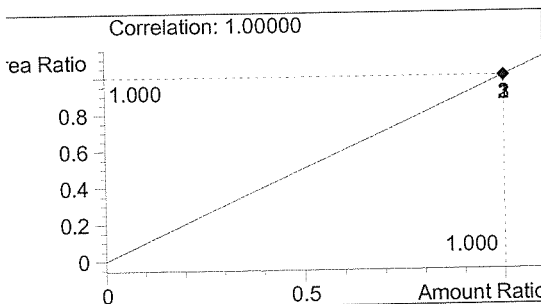


#	Compound	Area	RT
1	Ethanol	1532	1.038
2	n-Propanol	3598	1.690

Totals:



Ethanol 0.102 g/100ml

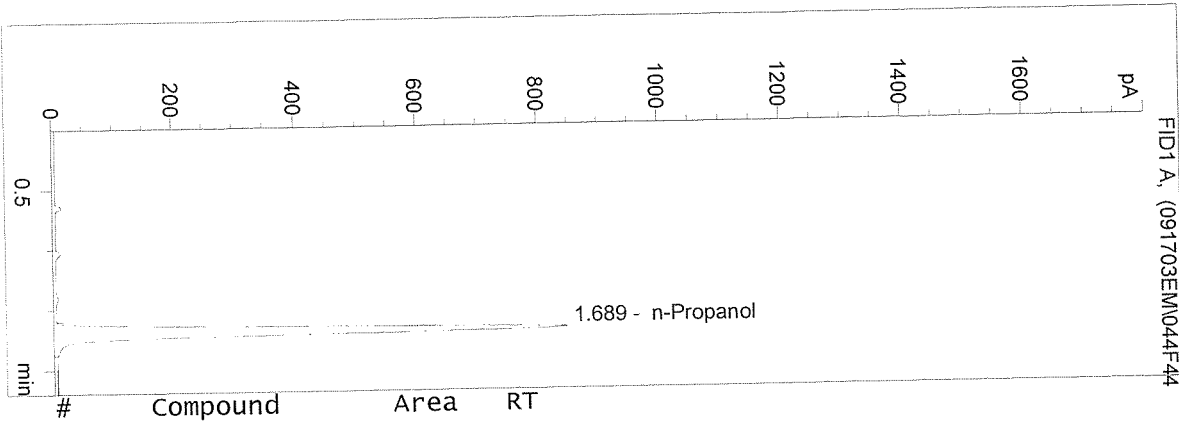


n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

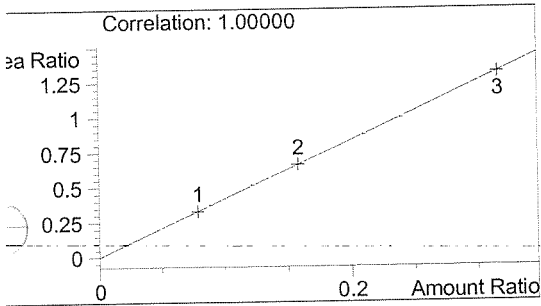
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 Instrument 2
 ALC1

BLANK
 Estuardo J. Miranda
 vial # 44

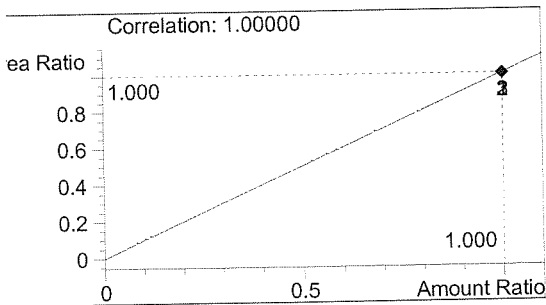


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3592	1.689

Totals:



Ethanol 0.000 g/100ml

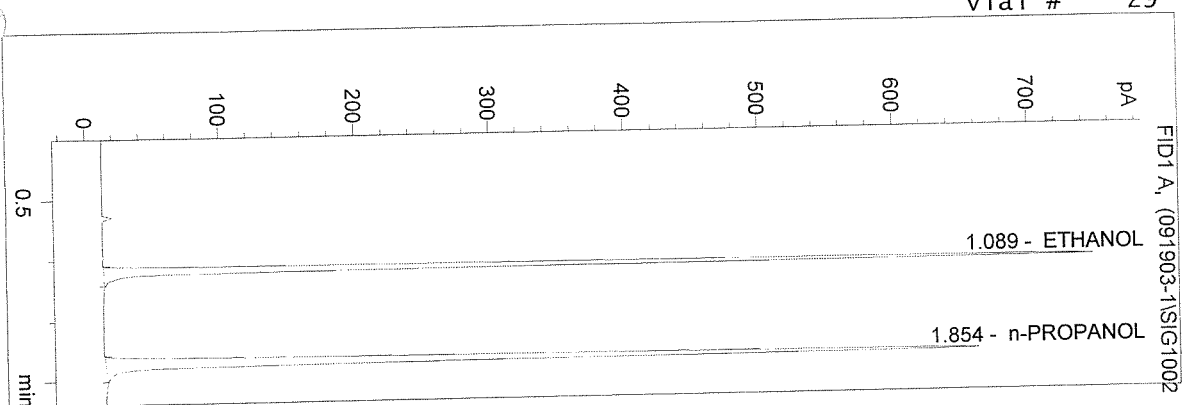


n-Propanol 1.000 g/100ml

HPCHEM\1\METHODS\BLDALCO3.M
 9/03 10:52:16 AM
 Instrument 3

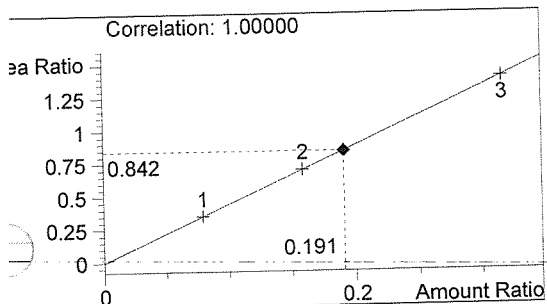
03033QA
 MARY WILSON

vial # 29

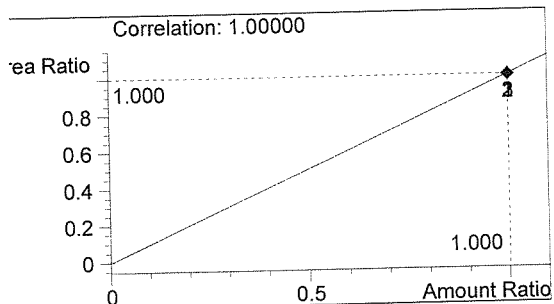


#	Compound	Area	RT
1	ETHANOL	1556	1.089
2	n-PROPANOL	1848	1.854

Totals:



ETHANOL 0.191 g/100mL



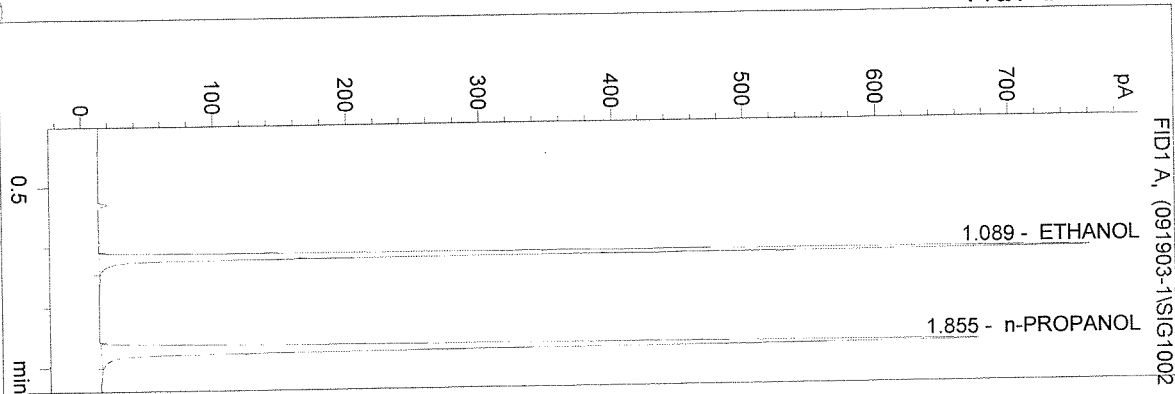
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

\\HPCHEM\1\METHODS\BLDALCO3.M
 09/03 10:48:58 AM
 Instrument 3

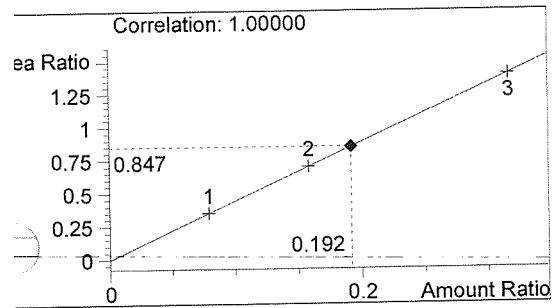
03033QA
 MARY WILSON

vial # 28

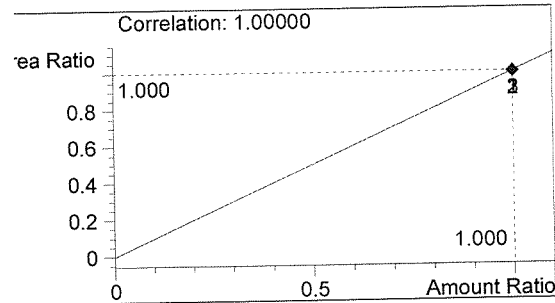


#	Compound	Area	RT
1	ETHANOL	1606	1.089
2	n-PROPANOL	1896	1.855

Totals:



ETHANOL 0.192 g/100mL



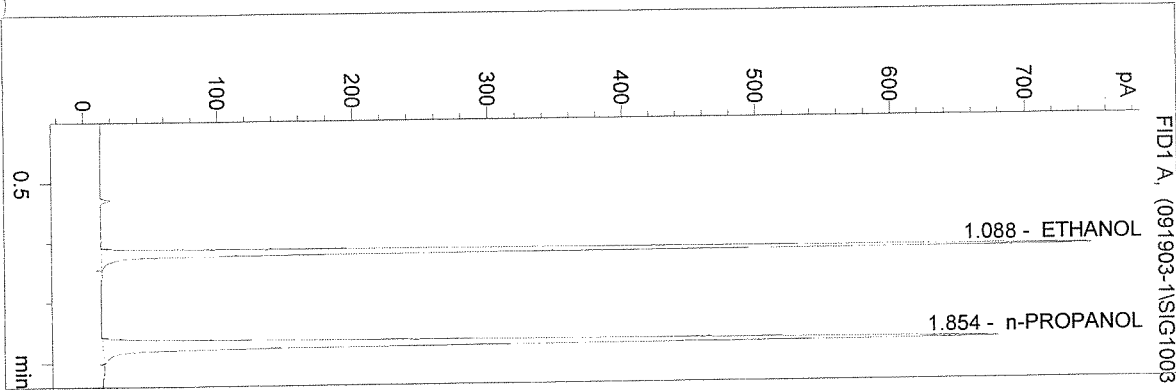
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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 19/03 10:55:20 AM
 Instrument 3

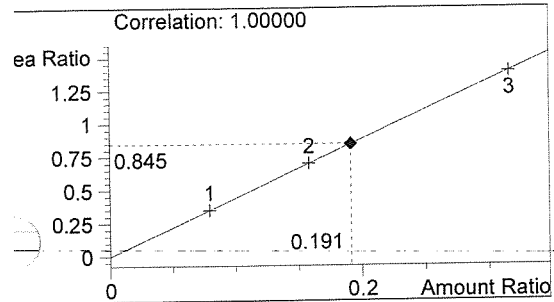
03033QA
 MARY WILSON

vial # 30

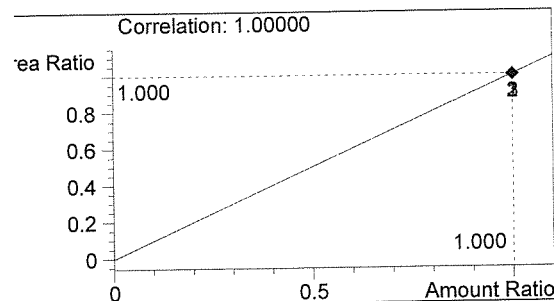


#	Compound	Area	RT
1	ETHANOL	1614	1.088
2	n-PROPANOL	1911	1.854

Totals:



ETHANOL 0.191 g/100mL



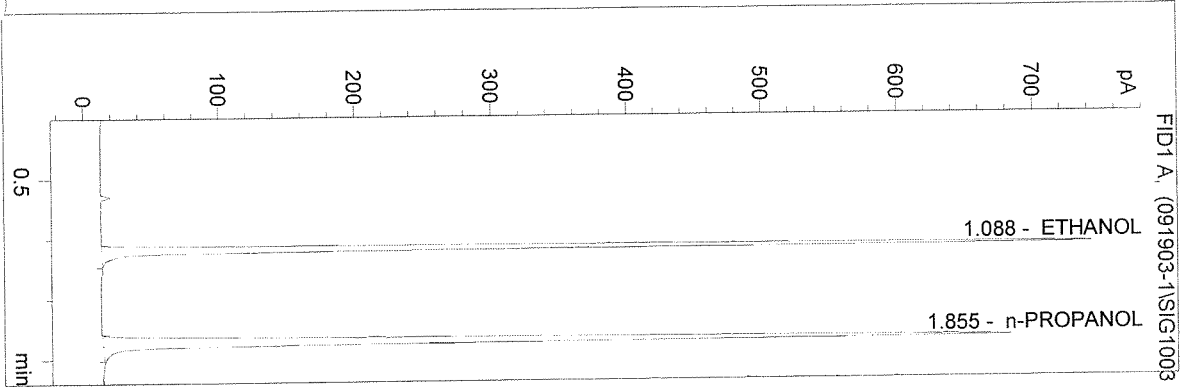
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

\\HPCHEM\1\METHODS\BLDALCO3.M
 19/03 10:58:24 AM
 Instrument 3

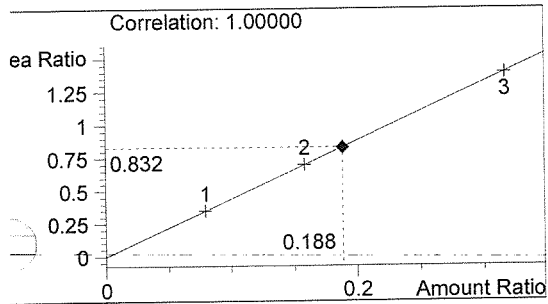
03033QA
 MARY WILSON

vial # 31

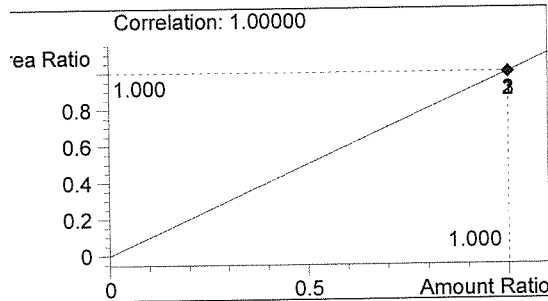


#	Compound	Area	RT
1	ETHANOL	1601	1.088
2	n-PROPANOL	1923	1.855

Totals:



ETHANOL 0.188 g/100mL

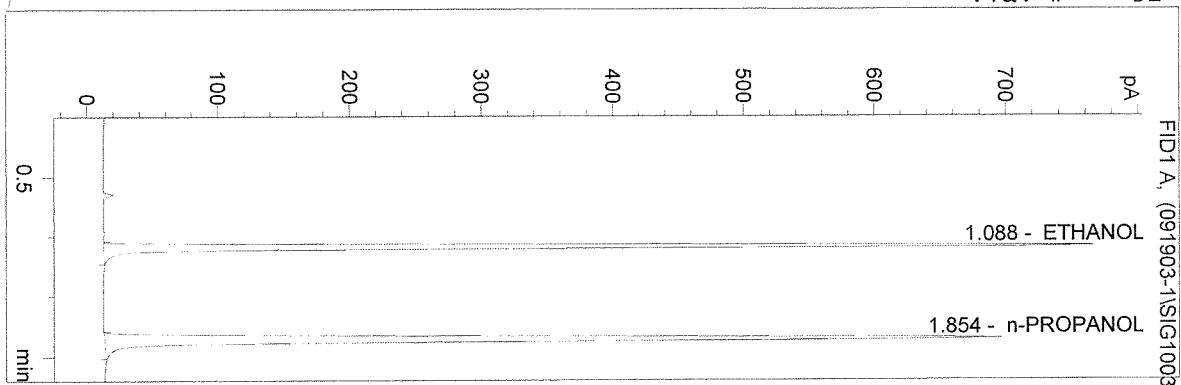


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
 19/03 11:01:28 AM
 Instrument 3

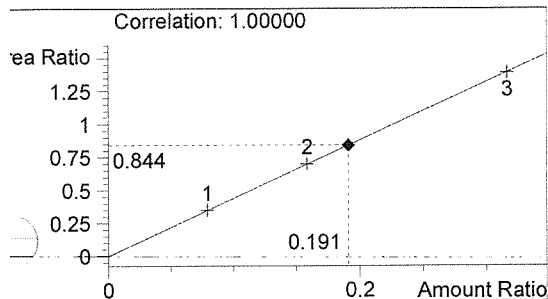
03033QA
 MARY WILSON

vial # 32

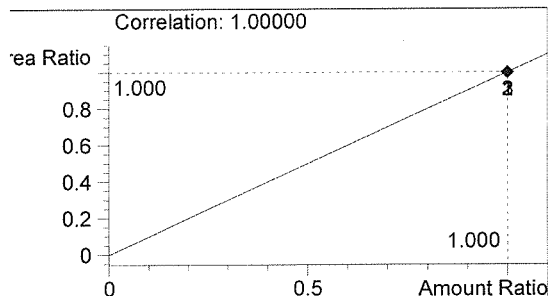


#	Compound	Area	RT
1	ETHANOL	1653	1.088
2	n-PROPANOL	1959	1.854

Totals:



ETHANOL 0.191 g/100mL



n-PROPANOL 1.000 g/100mL