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 **0.08** g/210L **Simulator External Standard solution**

Batch number **02036** Date: 10/22/2002

Preparation: 69.1 mL of absolute ethyl alcohol diluted to 54 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	0.101	0.103	0.101	0.102	0.100	0.101	0.101	0.101	0.100	0.101		
2	0.102	0.102	0.100	0.104	0.101	0.101	0.101	0.101	0.100	0.100		
3	0.102	0.102	0.100	0.101	0.101	0.101	0.101	0.101	0.101	0.100		
4	0.102	0.103	0.101	0.102	0.101	0.102	0.102	0.101	0.100	0.101		
5	0.101	0.102	0.101	0.100	0.101	0.101	0.101	0.101	0.101	0.104		
Ctrl	0.099	0.100	0.099	0.098	0.099	0.100	0.099	0.100	0.099	0.098		

External Control:

Lot #: A021986 Exp date: 1/05

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.1012 g/100 mL

SD: 0.00093

Range (3xSD): 0.0984 to 0.1040

Precision CV (%): 0.9237 %

Equivalent vapor concent.: 0.0823 g/210L

Analyst	Name	Signature	Date
1	Ruth Luthi	Ruth Luthi	10/22/02
2	William P Marshall	Wm P Marshall	10/23/02
3	Edward Formoso	Ed Formoso	10/24/02
4	Melissa Pemberton	Melissa J Pemberton	10/25/02
5	Jayne Thatcher	Jayne E Thatcher	10/28/02
6	Naziha Nuwayhid, PhD	[illegible]	10/29/02
7	Eugene Schwilke	[illegible]	10/30/02
8	Estuardo J. Miranda	EJMiranda	10/31/02
9	Ann Marie Gordon	[illegible]	11/13/02
10	Mary E Wilson	Mary E Wilson	11/13/02
11			
12			

Prepared by: Ruth Luthi according to the approved protocol

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Estuardo J. Miranda, 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 simulator 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 four years experience in Forensic Toxicology.

The simulator Solution, Lot Number 02036 was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

Estuardo J. Miranda
Forensic Toxicologist

EM/nf
EMSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Edward J. Formoso, 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Chemistry and twenty-seven years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02036, was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

Edward J. Formoso
Forensic Toxicologist

EJF/nf
EFSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR 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 test instrument.

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

The simulator solution, Lot Number 02036, was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

Melissa L. Pemberton
Forensic Toxicologist

MP/nf
MPSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Ruth Luthi, 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Chemistry and twenty-two years of experience in analytical chemistry, and eighteen years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02036, was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

Ruth Luthi
Forensic Toxicologist

RL/nf
RLSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, William P. Marshall, 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Chemistry and twenty-nine years of analytical laboratory experience including thirteen years of toxicology experience.

The simulator solution, Lot Number 02036, was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

William P. Marshall
Forensic Toxicologist

WM/nf
WMSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Jayne E. Thatcher, 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Cell and Molecular Biology and two years of experience in the Washington State Toxicology Laboratory.

The simulator solution, Lot Number 02036, was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

Jayne E. Thatcher
Forensic Toxicologist

JET/nf
JTSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Naziha Nuwayhid, 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: Bachelor and Masters degrees in Biology, Ph.D. degree in Basic Medical Science, ten years experience in clinical laboratory sciences, one year in clinical toxicology and two years in forensic toxicology. I am also board certified by the American Board of Clinical Chemistry.

The simulator solution, Lot Number 02036, was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

Naziha Nuwayhid, Ph.D.
Forensic Toxicologist

NN/nf
NNSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR 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 simulator solutions for the BAC Verifier Data Master breath test instrument.

I possess the following qualifications: BS degree in Biology, Board Certification from the American Board of Forensic Toxicology, and five years of experience in the Washington State Toxicology Laboratory.

The Simulator Solution, Lot Number 02036, was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

Eugene W. Schwilke, A.B.F.T.
Forensic Toxicologist

GS/nf
GSSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Ann Marie Gordon, 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 test instrument.

I possess the following qualifications: Masters degree in Microbiology and Immunology and twelve years of experience as a forensic toxicologist.

The simulator solution, Lot Number 02036, was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

Ann Marie Gordon
Laboratory Manager

AMG/nf
AGSIMSOL

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BAC VERIFIER DATAMASTER 0.08 SIMULATOR SOLUTION CERTIFICATION

I, Mary E. Wilson, 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 simulator 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 simulator solution, Lot Number 02036, was prepared in the Washington State Toxicology Laboratory on 10/22/02. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It should not be used for evidential breath tests after 10/22/03.

Dated: 11/14/02
Seattle, WA

Mary E. Wilson
Forensic Toxicologist

MEW/nf
MWSIMSOL

WASHINGTON STATE TOXICOLOGY LABORATORY Cal in 026254

C:\HPCHEM\2\METHODS\BLDALCO2.M
10/22/02 10:29:48 AM
Instrument 2
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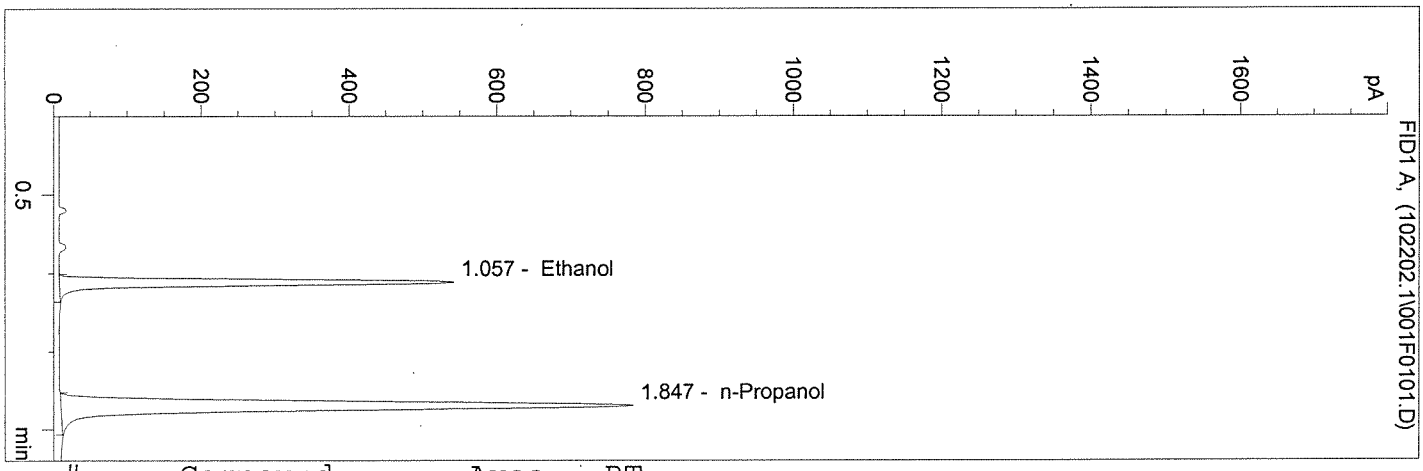
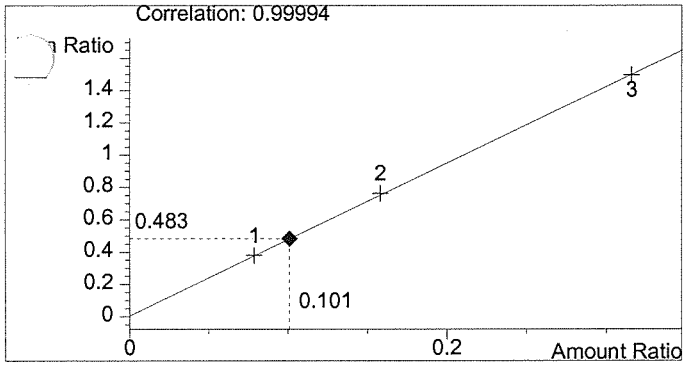
02036 SIM SOL
RUTH LUTHI

vial # 1

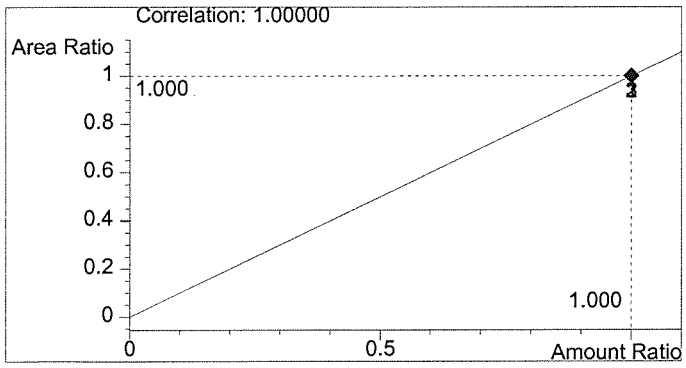


#	Compound	Area	RT
1	Ethanol	1449	1.057
2	n-Propanol	3002	1.847

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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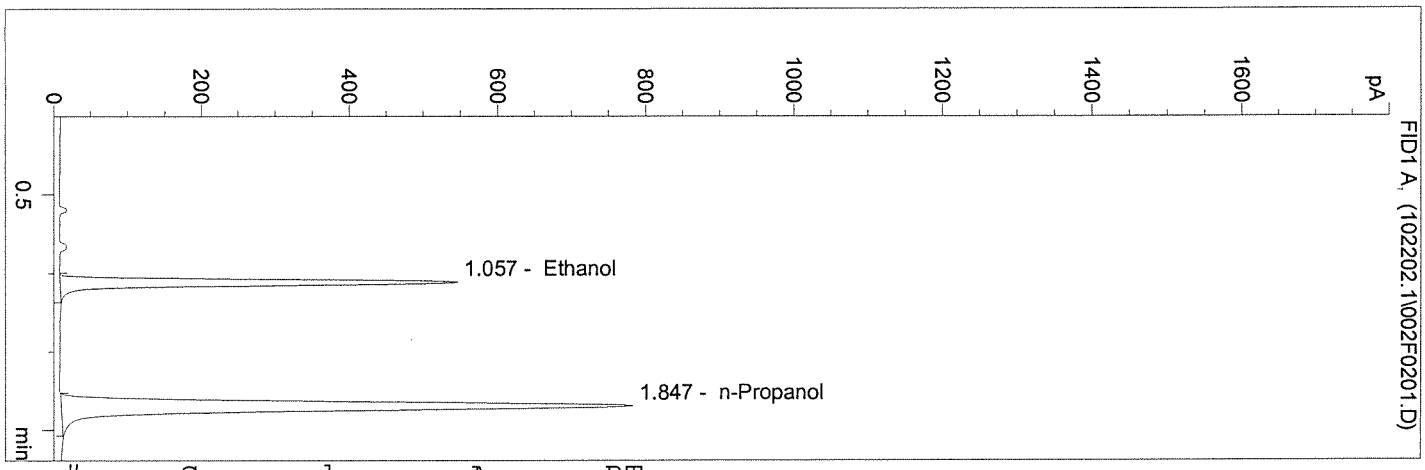
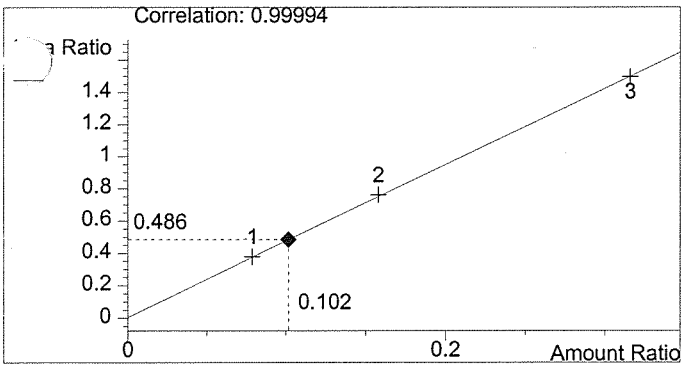
02036 SIM SOL
RUTH LUTHI

vial # 2

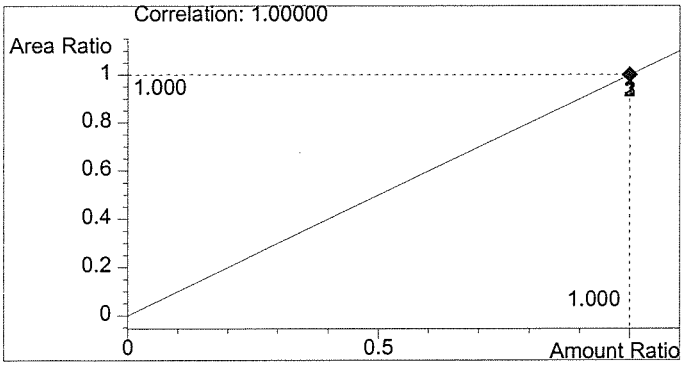


#	Compound	Area	RT
1	Ethanol	1456	1.057
2	n-Propanol	2999	1.847

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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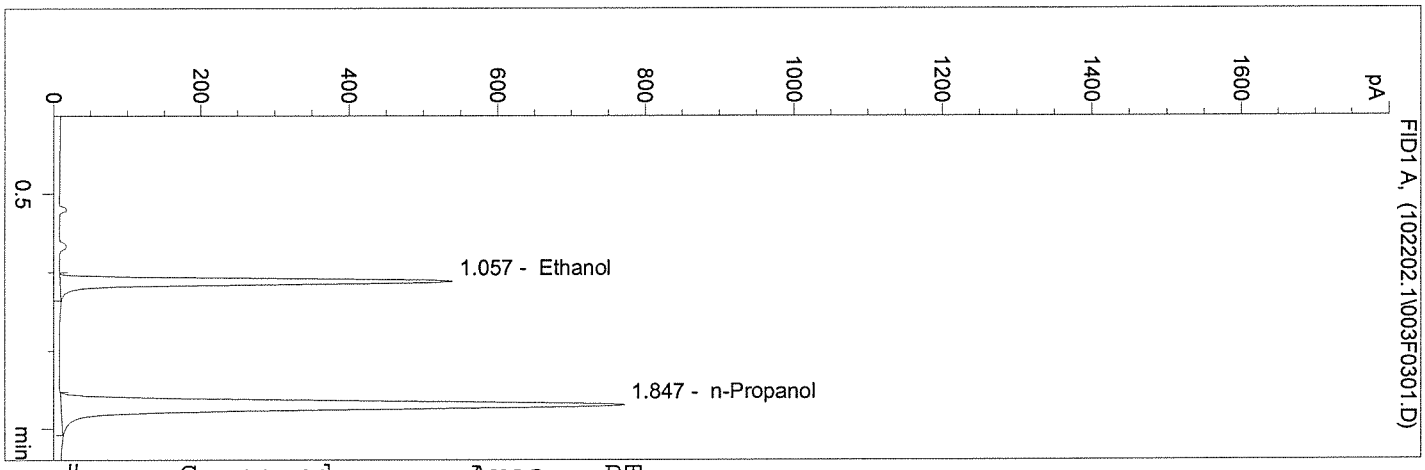
Instrument 2
DB-ALC1

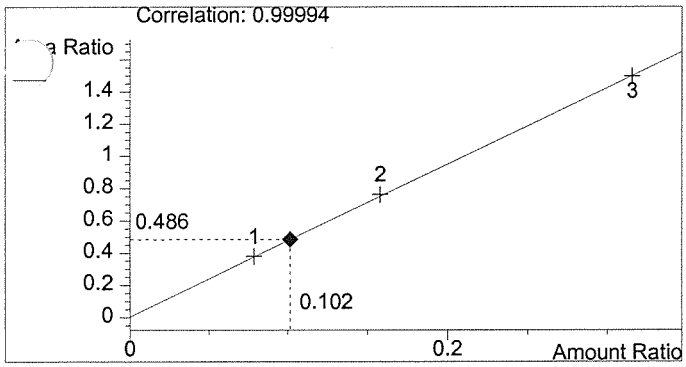
02036 SIM SOL
RUTH LUTHI

vial # 3

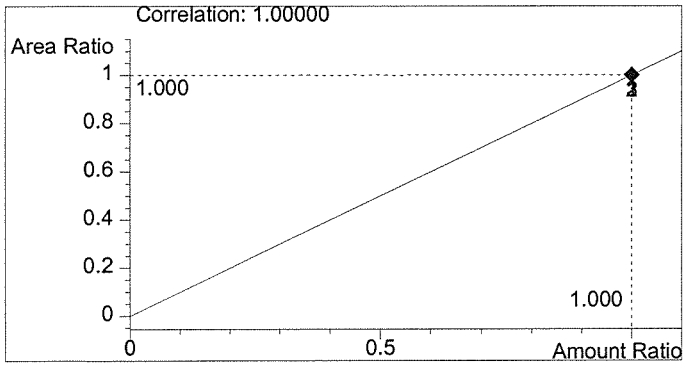


#	Compound	Area	RT
1	Ethanol	1442	1.057
2	n-Propanol	2969	1.847

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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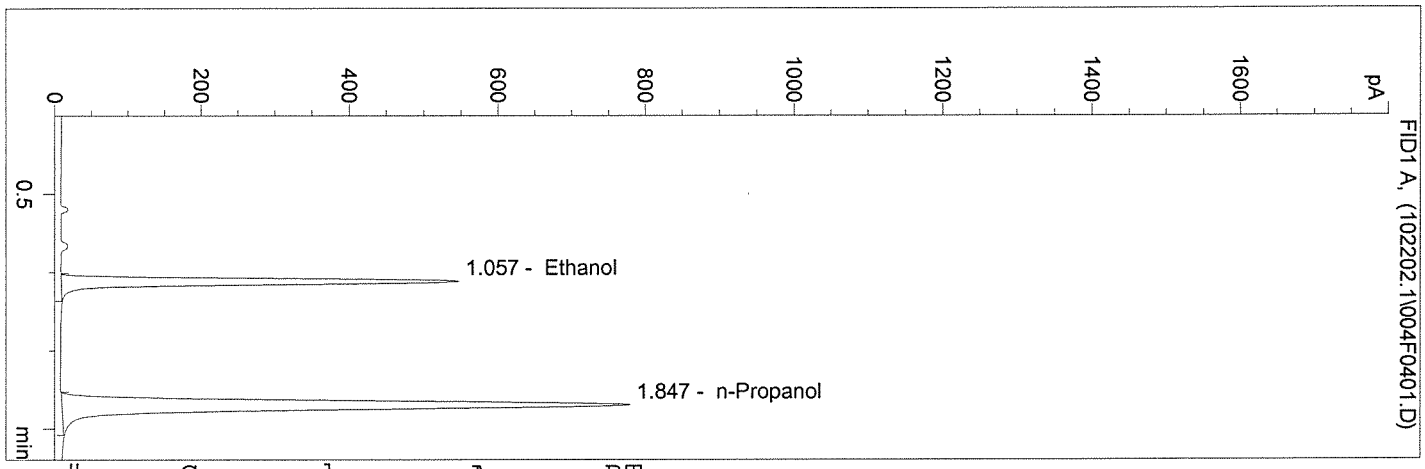
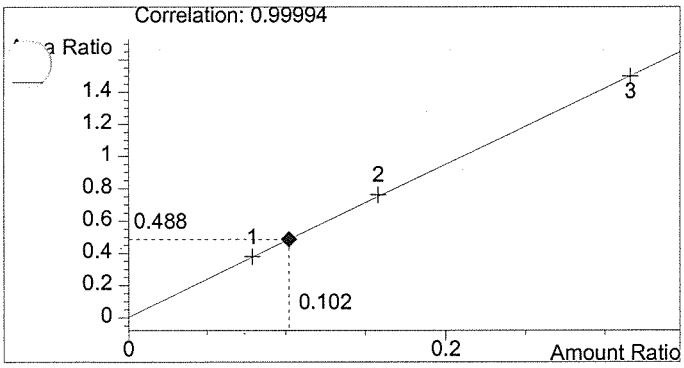
02036 SIM SOL
RUTH LUTHI

vial # 4

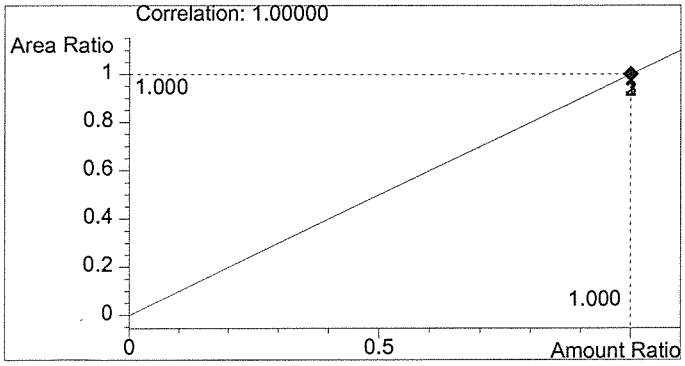


#	Compound	Area	RT
1	Ethanol	1459	1.057
2	n-Propanol	2993	1.847

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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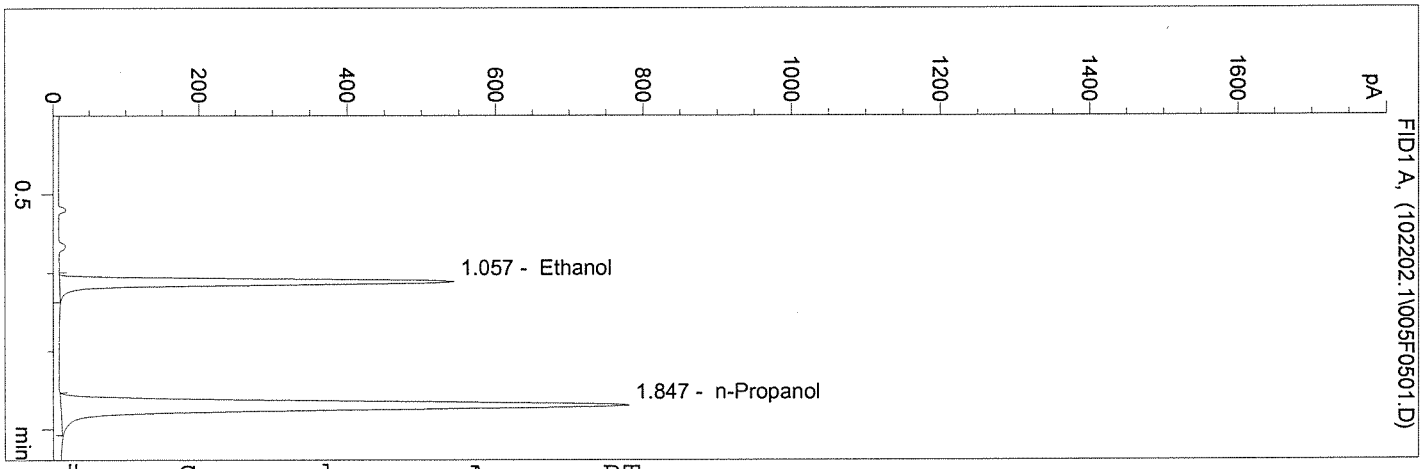
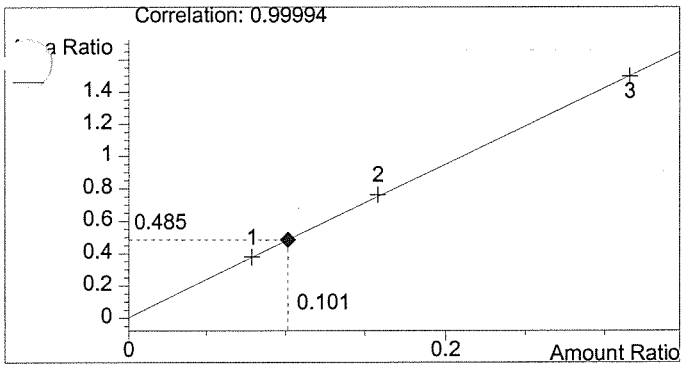
02036 SIM SOL
RUTH LUTHI

vial # 5

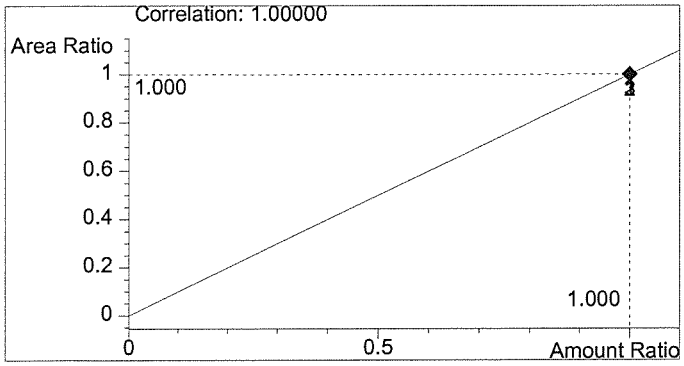


#	Compound	Area	RT
1	Ethanol	1455	1.057
2	n-Propanol	2998	1.847

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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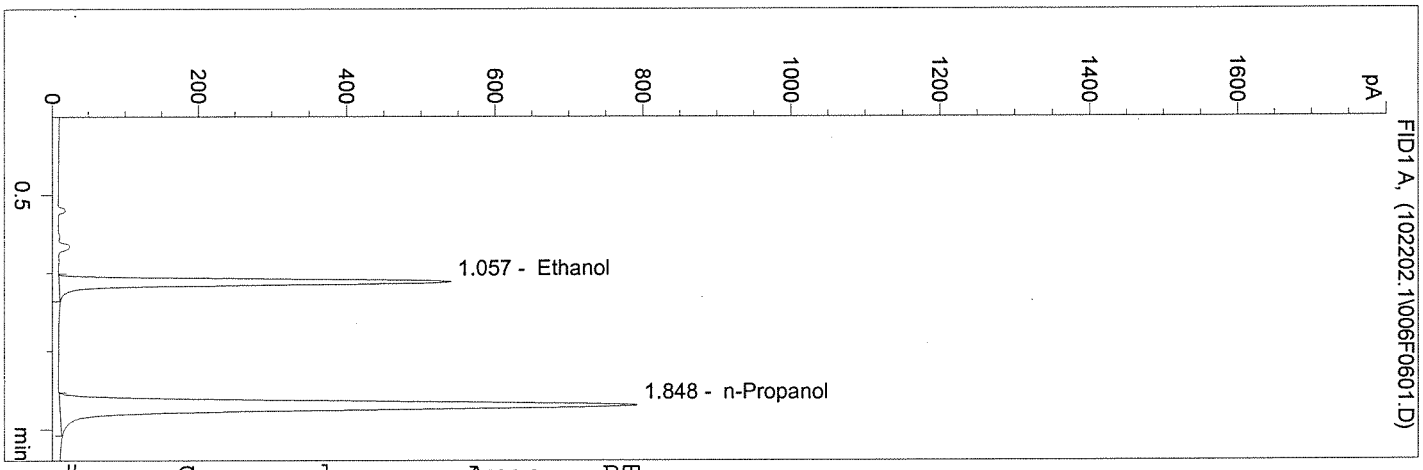
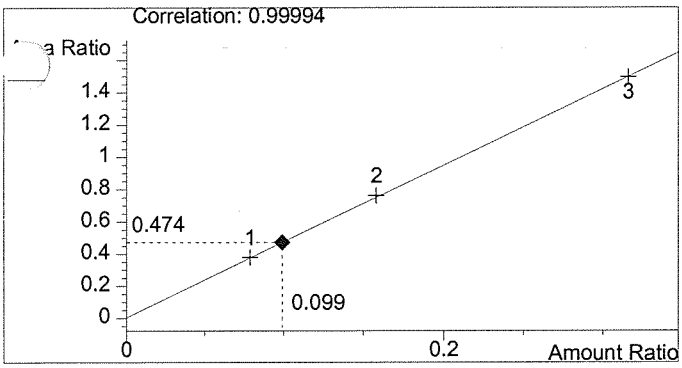
0.100 CTRL
RUTH LUTHI

vial # 6

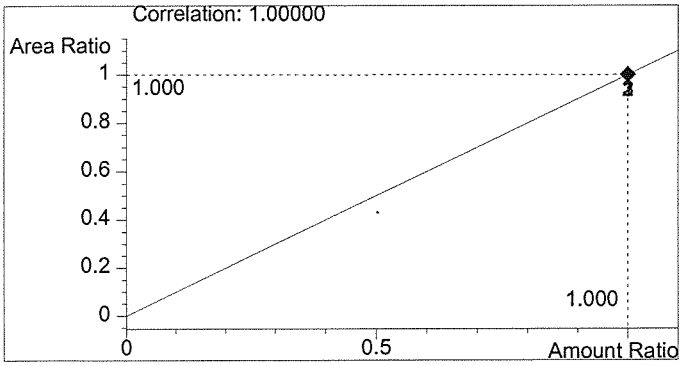


#	Compound	Area	RT
1	Ethanol	1446	1.057
2	n-Propanol	3050	1.848

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
DB-ALC1

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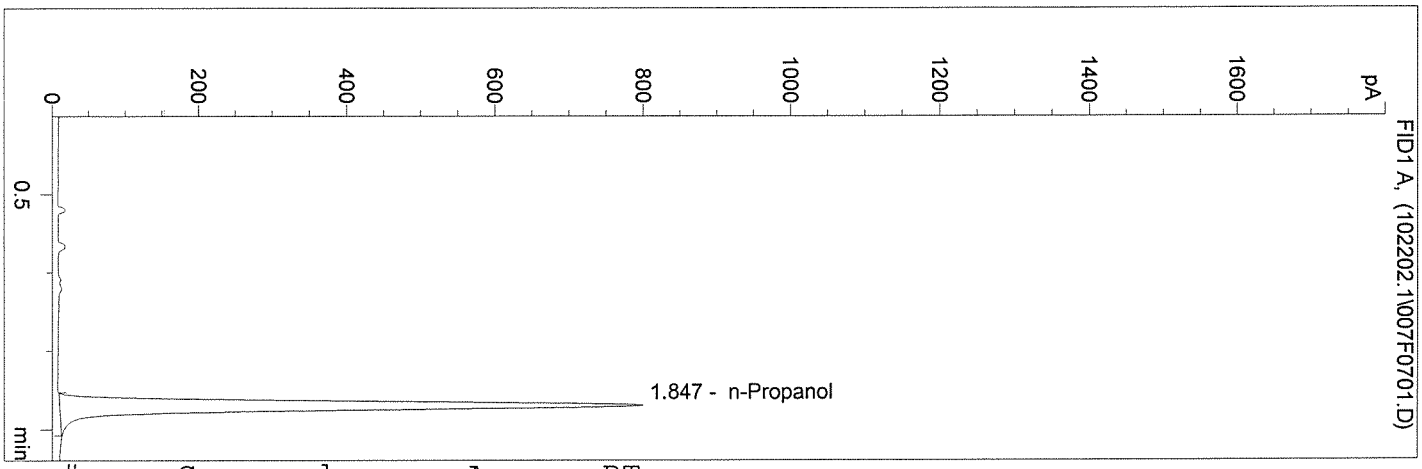
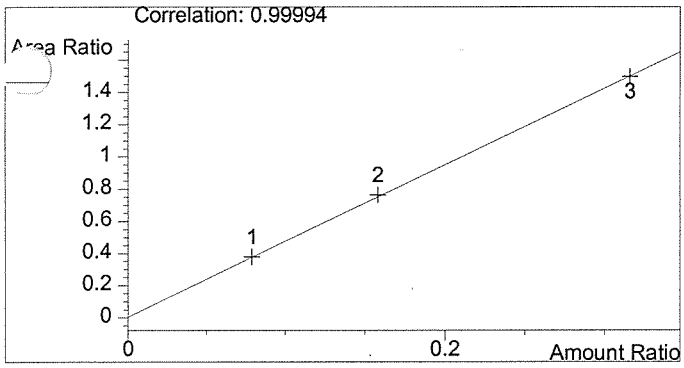
RUTH LUTHI

vial # 7

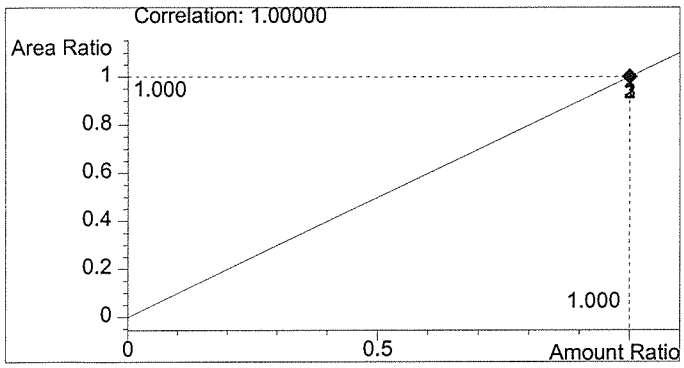


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3076	1.847

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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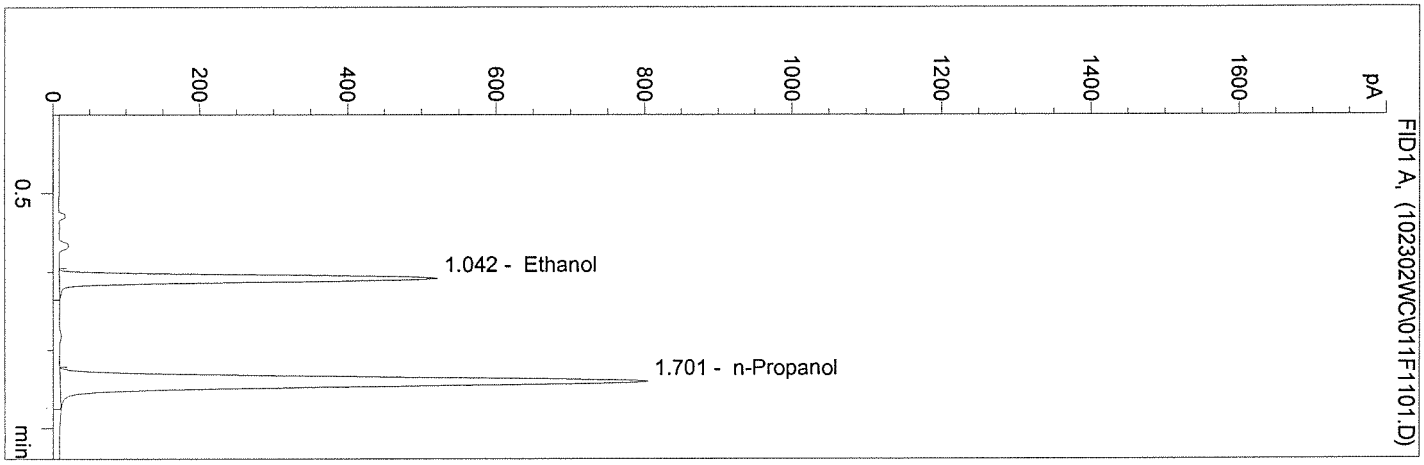
10/23/02 12:15:25 PM
Instrument 1
-ALC1

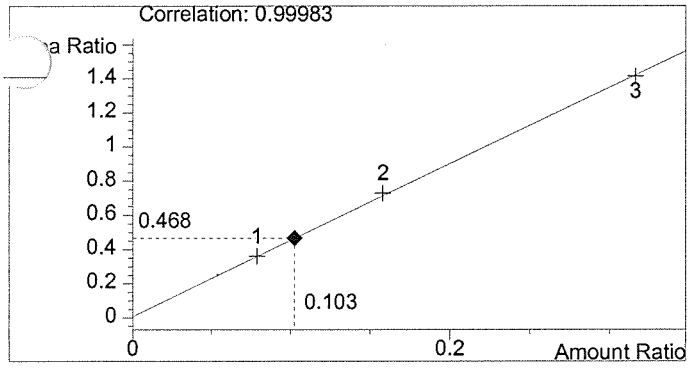
SIM 02036
WP MARSHALL

vial # 11

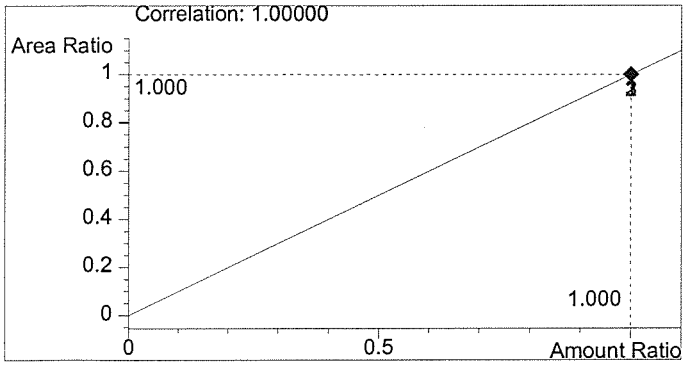


#	Compound	Area	RT
1	Ethanol	1569	1.042
2	n-Propanol	3355	1.701

Totals:



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

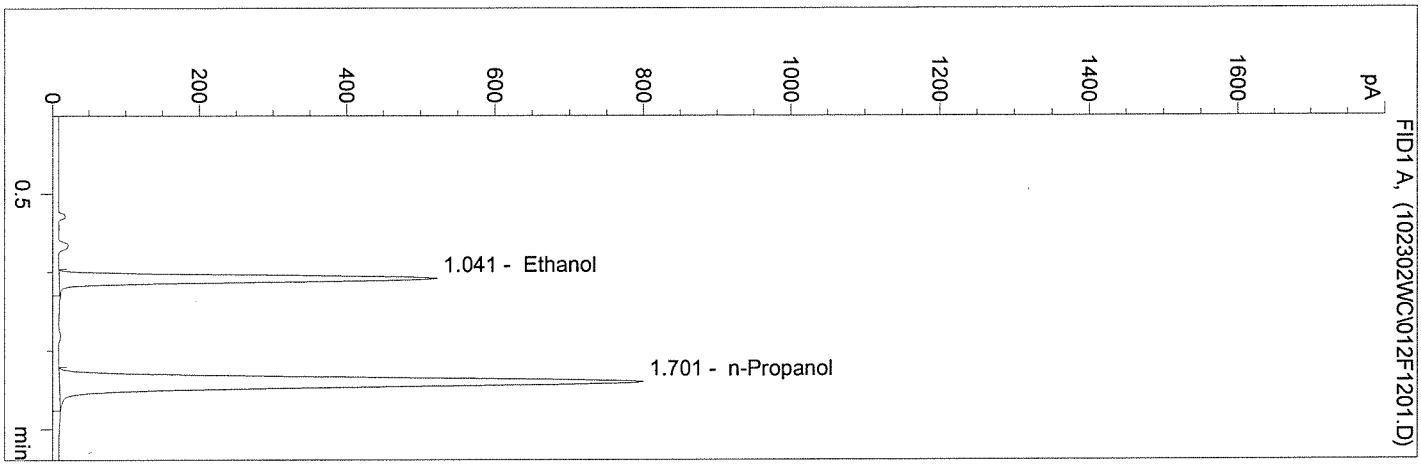
STDS
026286

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
10/23/02 12:18:27 PM
Instrument 1
-ALC1

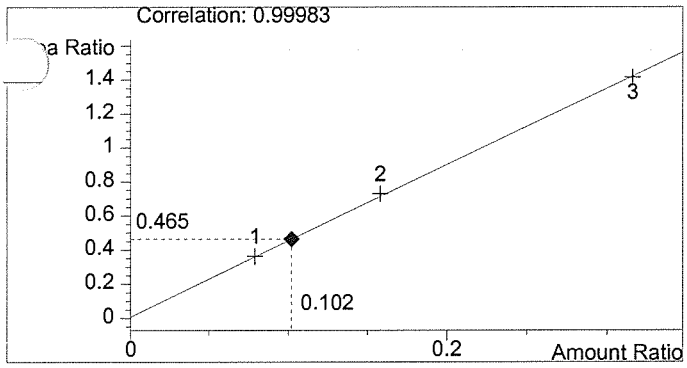
SIM 02036
WP MARSHALL

vial # 12

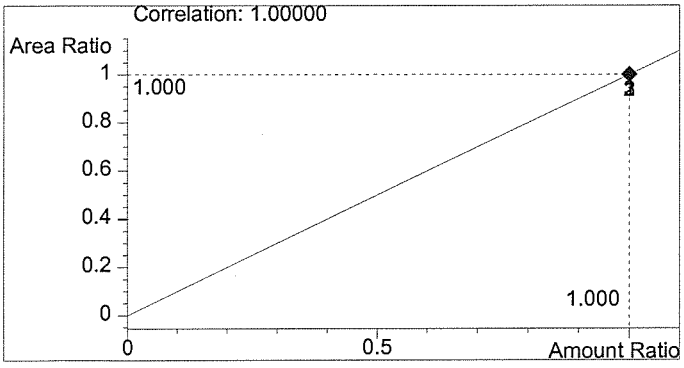


#	Compound	Area	RT
1	Ethanol	1544	1.041
2	n-Propanol	3322	1.701

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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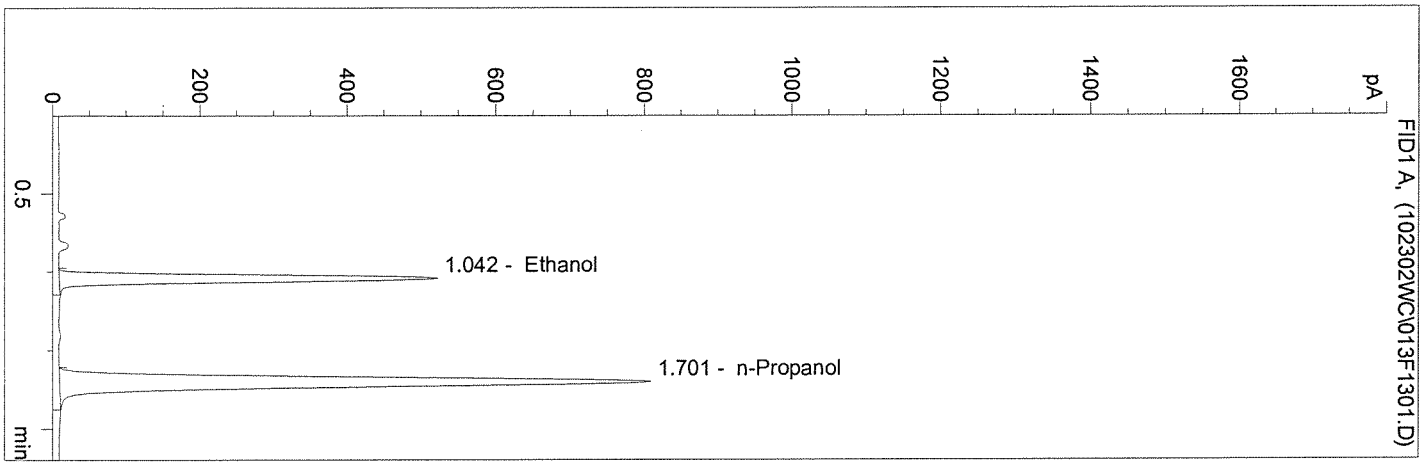
Instrument 1
-ALC1

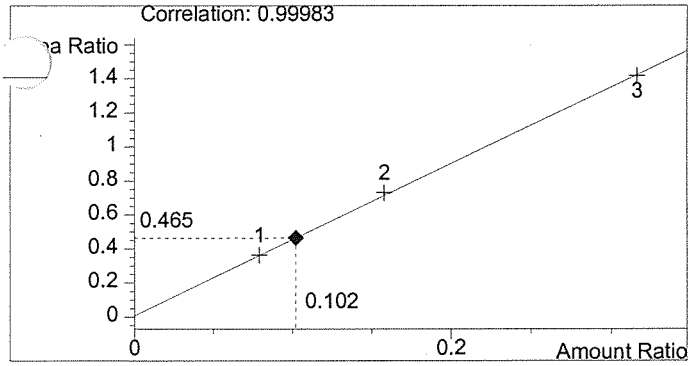
SIM 02036
WP MARSHALL

vial # 13

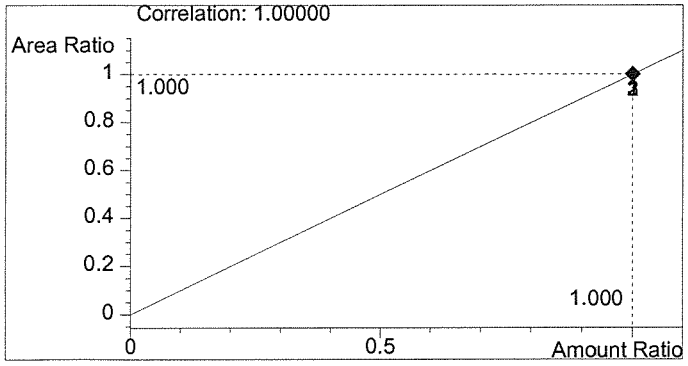


#	Compound	Area	RT
1	Ethanol	1570	1.042
2	n-Propanol	3377	1.701

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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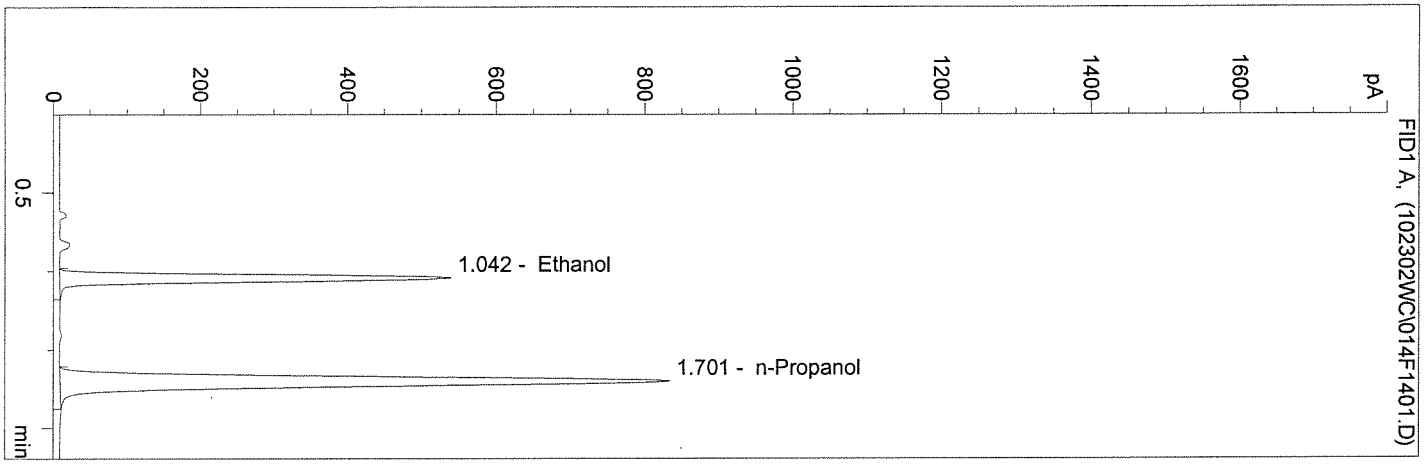
Instrument 1
-ALC1

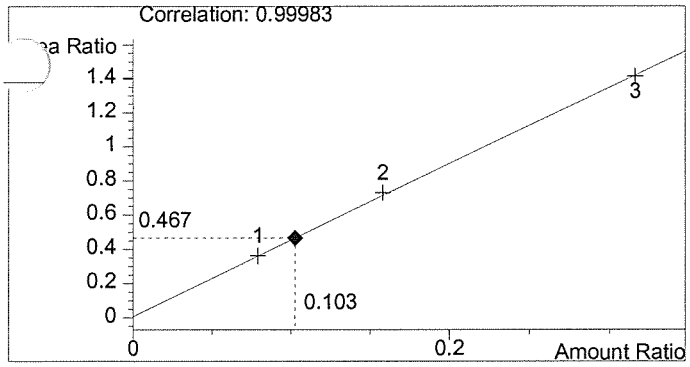
SIM 02036
WP MARSHALL

vial # 14

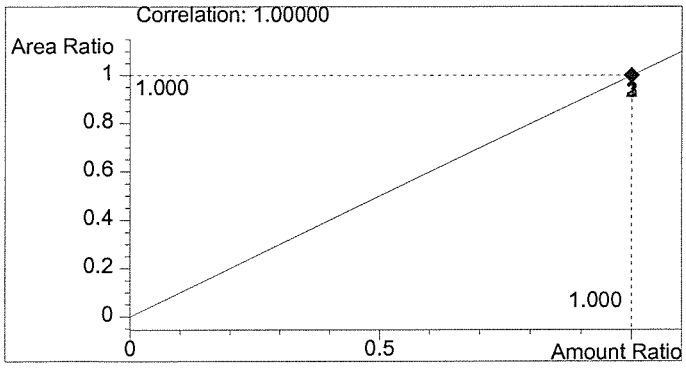


#	Compound	Area	RT
1	Ethanol	1627	1.042
2	n-Propanol	3484	1.701

Totals:



Ethanol 0.103 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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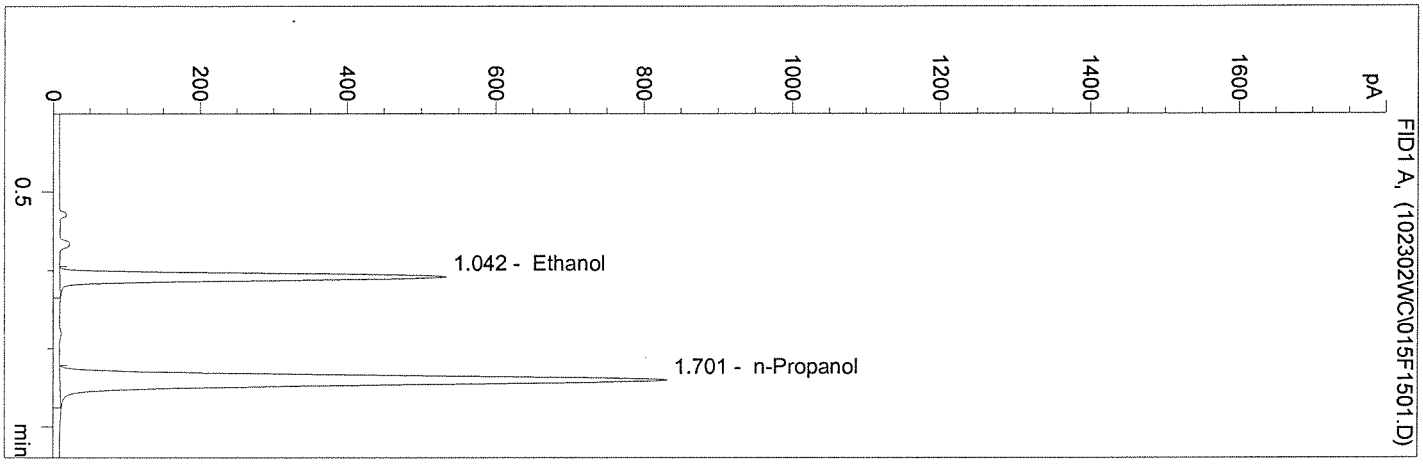
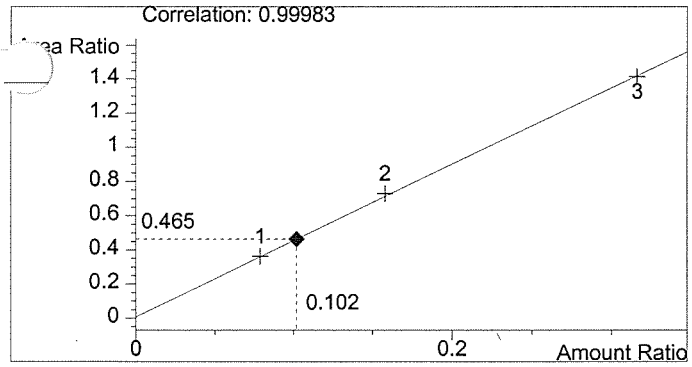
Instrument 1
-ALC1

SIM 02036
WP MARSHALL

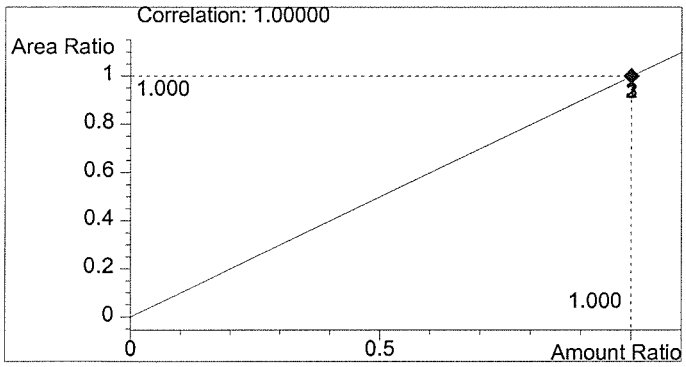
vial # 15



#	Compound	Area	RT
1	Ethanol	1617	1.042
2	n-Propanol	3480	1.701
Totals:			



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
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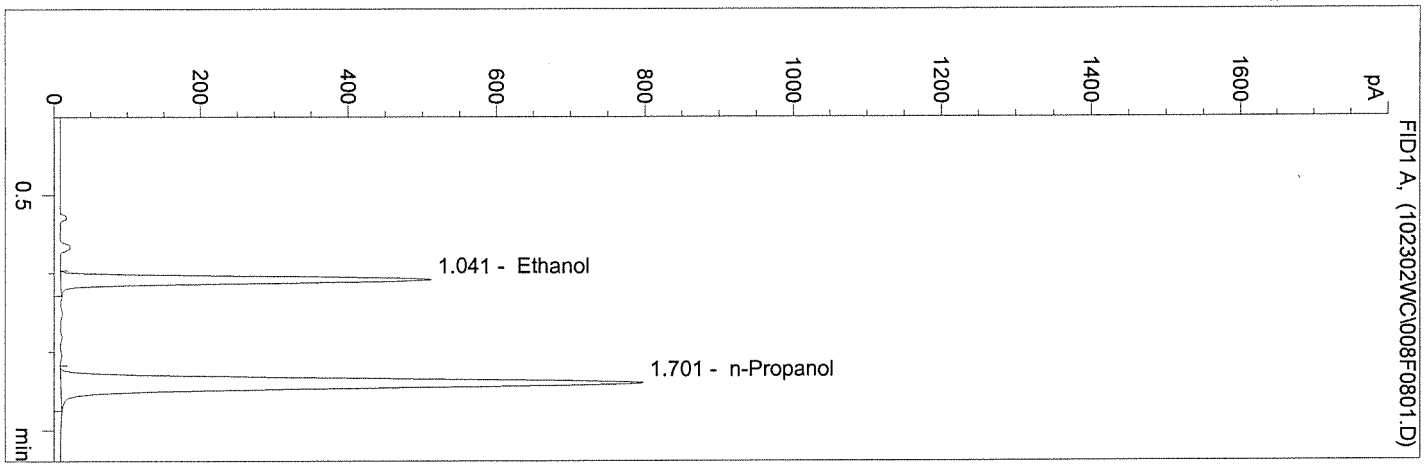
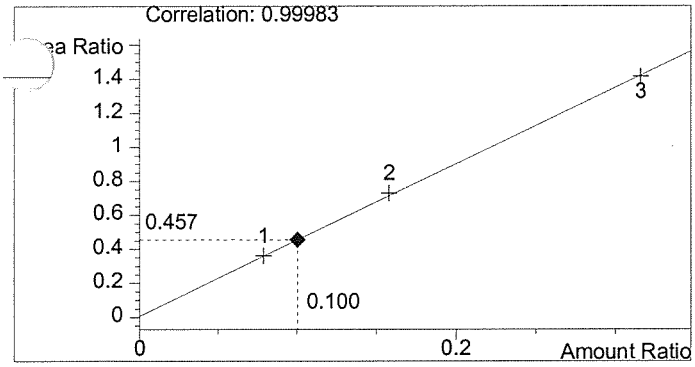
CONTROL 0.10 WM
WP MARSHALL

vial # 8

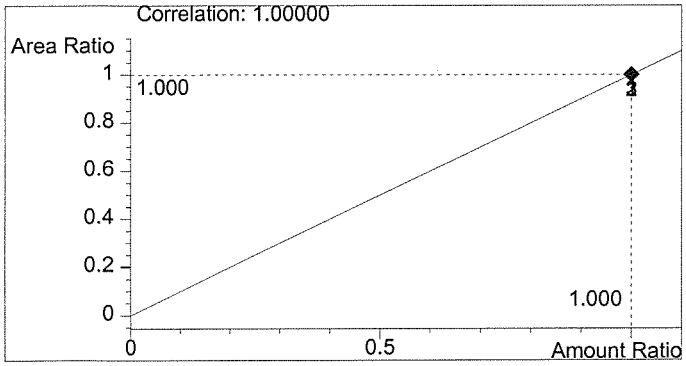


#	Compound	Area	RT
1	Ethanol	1512	1.041
2	n-Propanol	3307	1.701

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
3-ALC1

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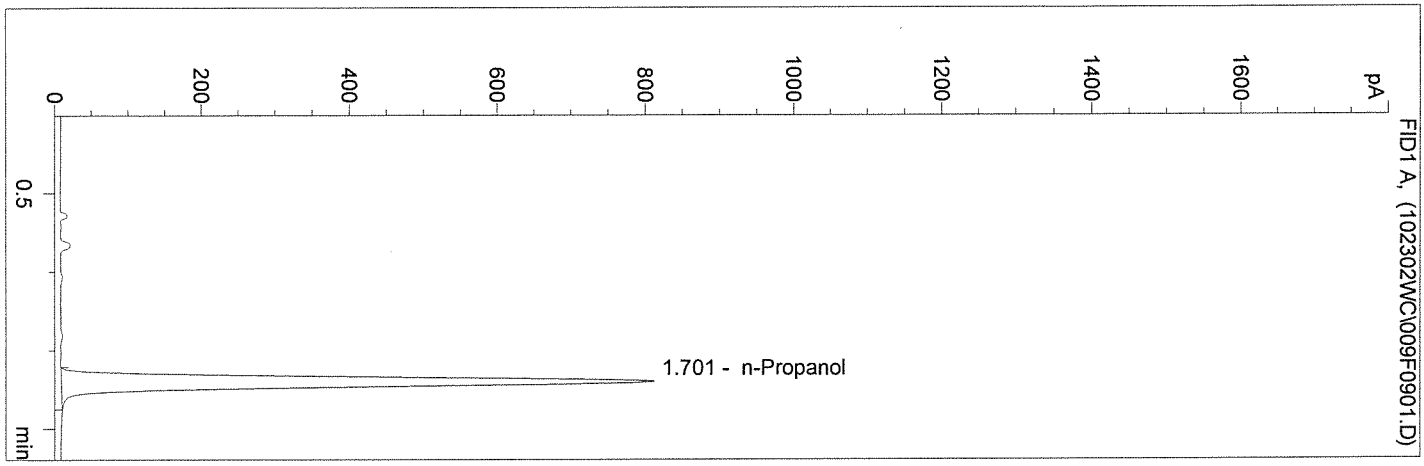
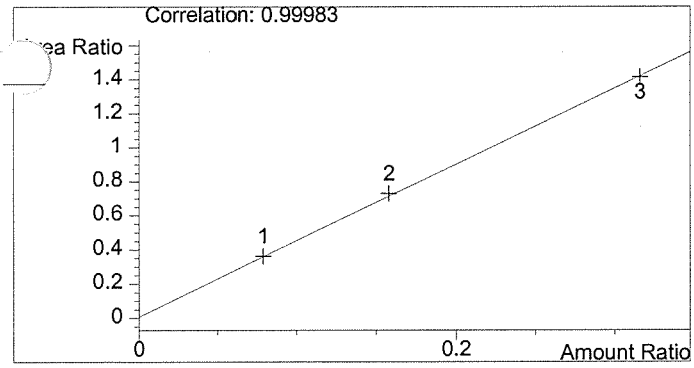
WP MARSHALL

vial # 9

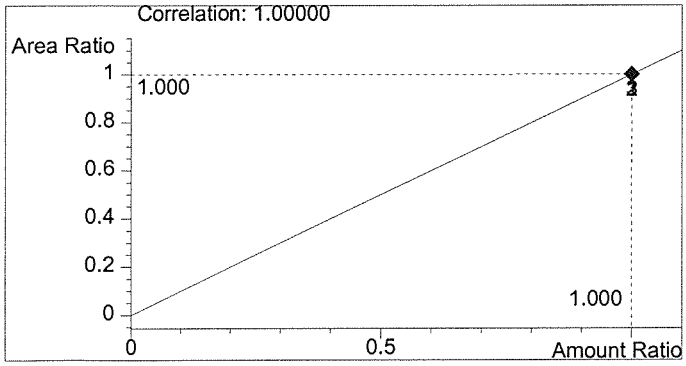


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3392	1.701

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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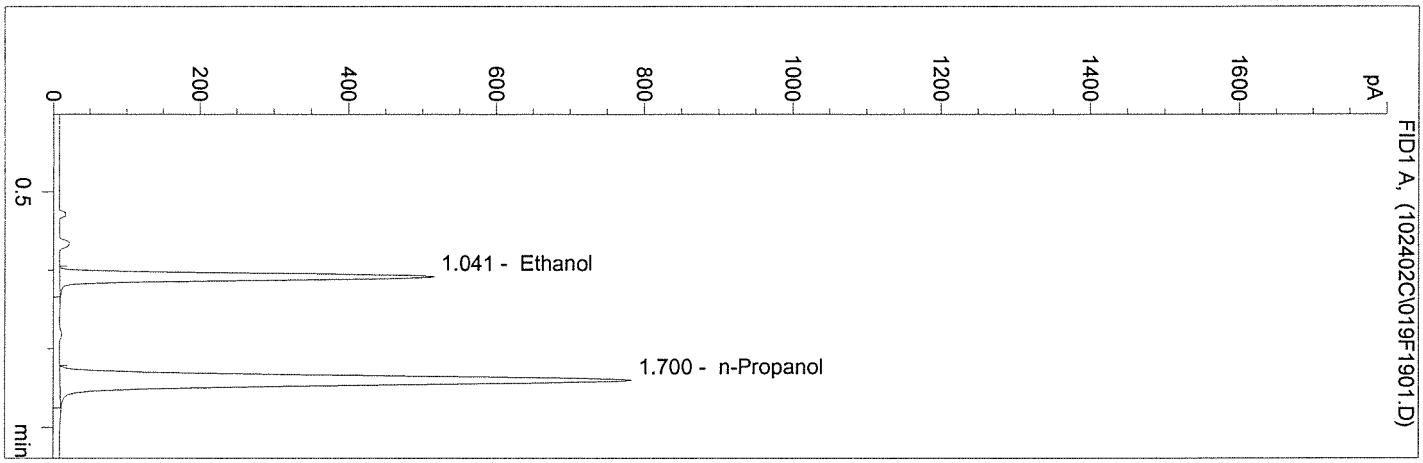
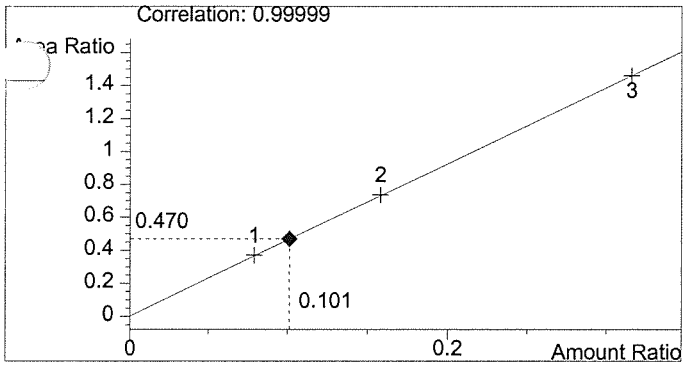
vial # 19

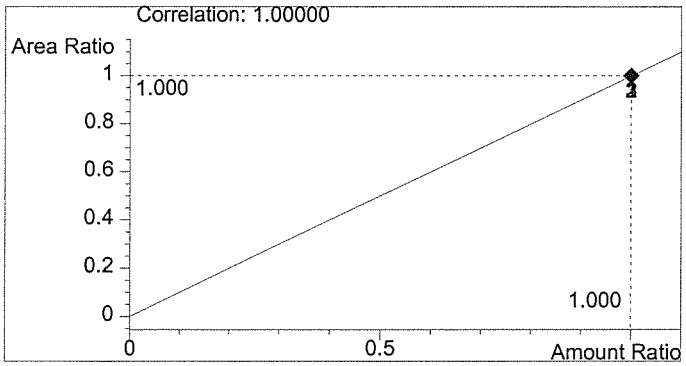


#	Compound	Area	RT
1	Ethanol	1533	1.041
2	n-Propanol	3263	1.700

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
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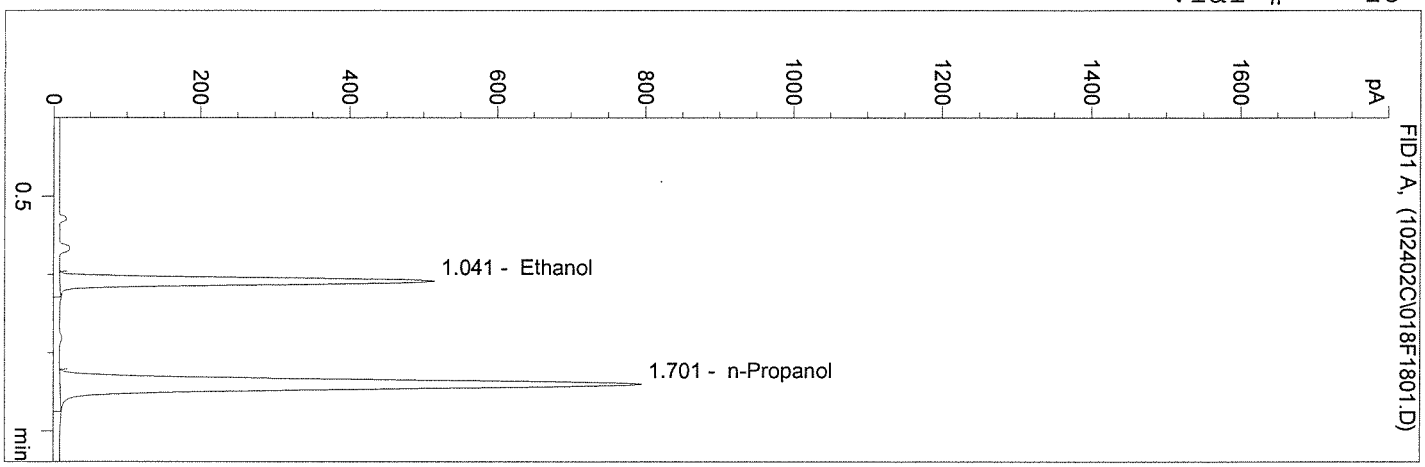
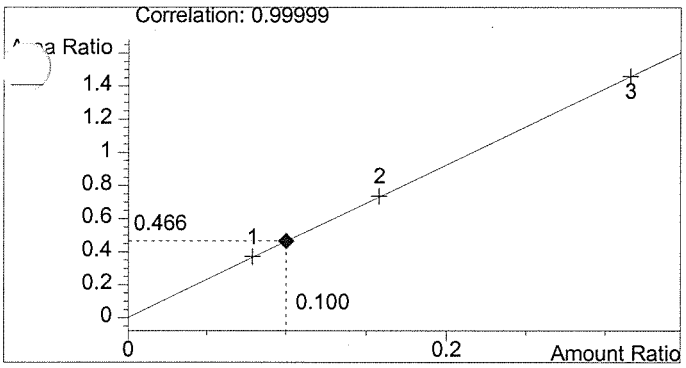
vial # 18

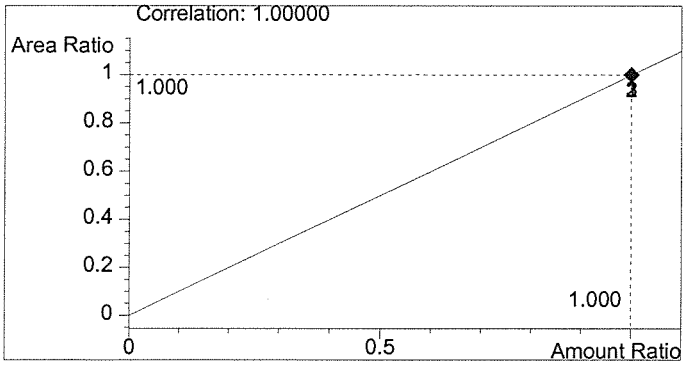


#	Compound	Area	RT
1	Ethanol	1545	1.041
2	n-Propanol	3318	1.701

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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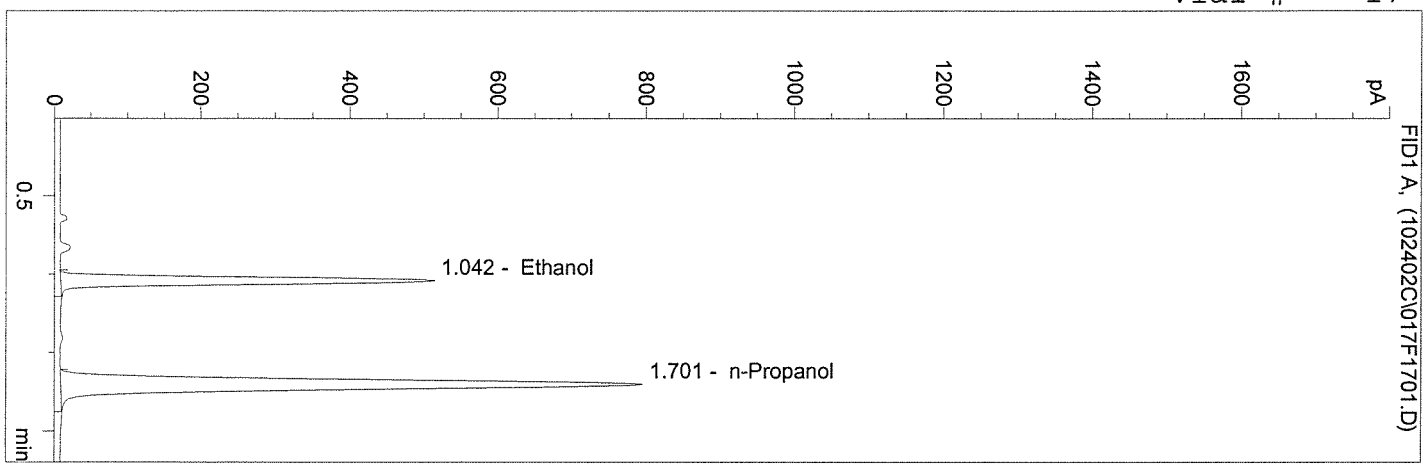
Instrument 1
DB-ALC1

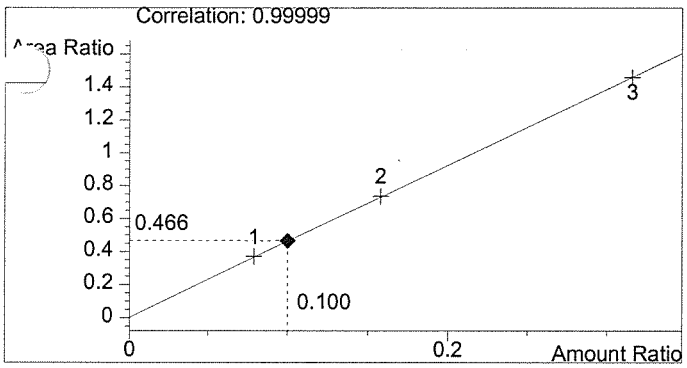
02036
ED FORMOSO

vial # 17

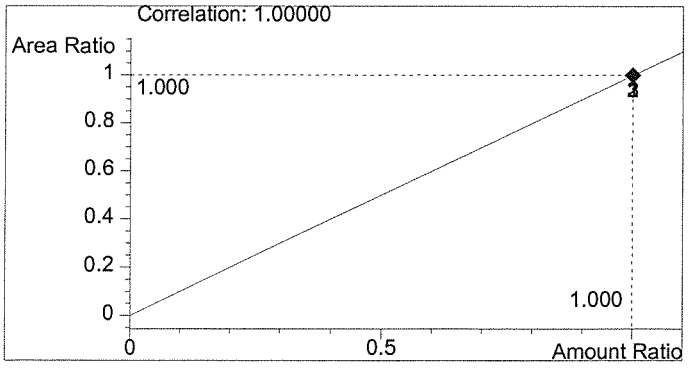


#	Compound	Area	RT
1	Ethanol	1549	1.042
2	n-Propanol	3327	1.701

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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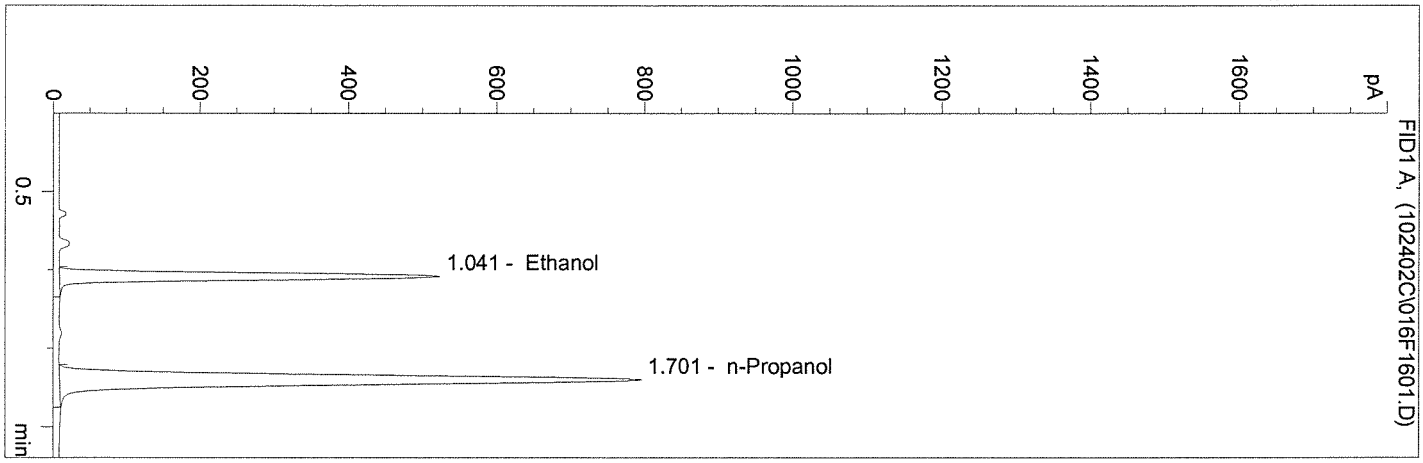
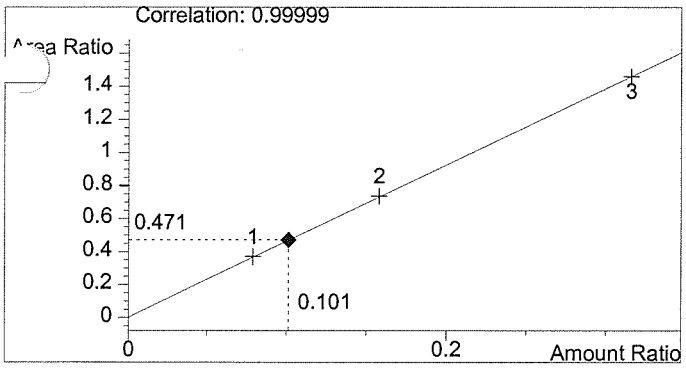
Instrument 1 ED FORMOSO
DB-ALC1

vial # 16

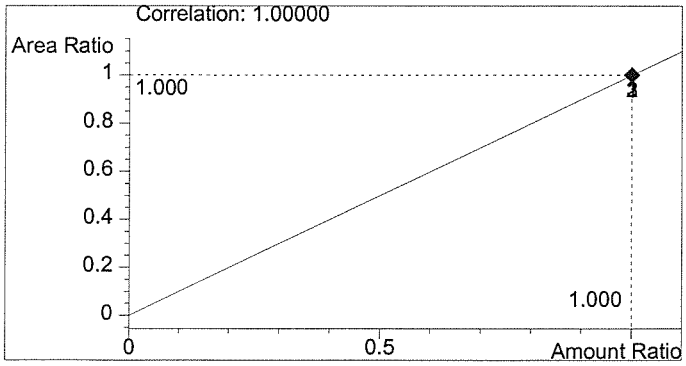


#	Compound	Area	RT
1	Ethanol	1565	1.041
2	n-Propanol	3323	1.701

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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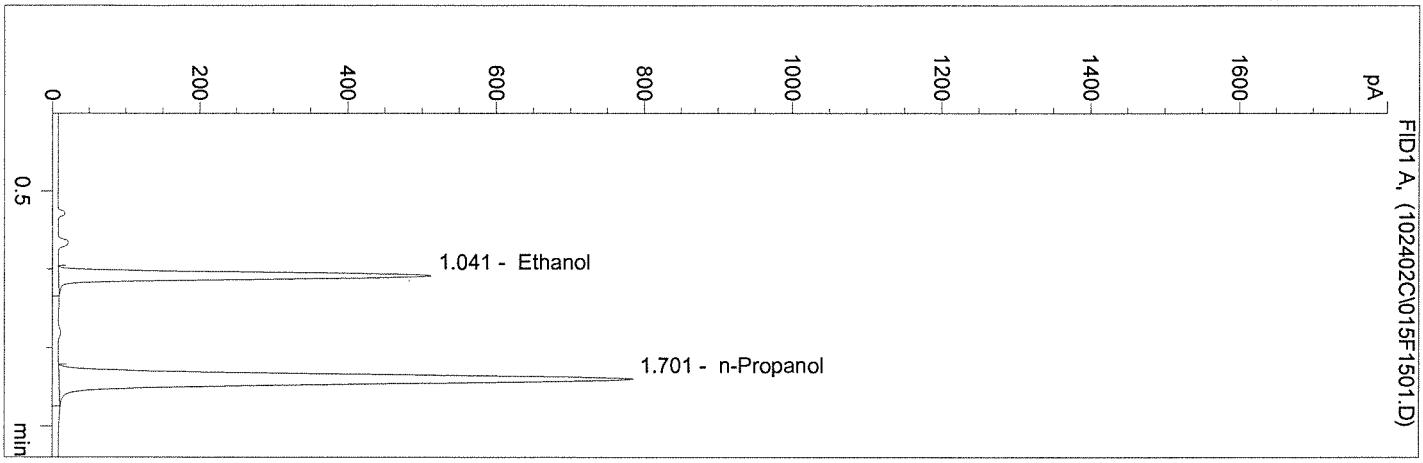
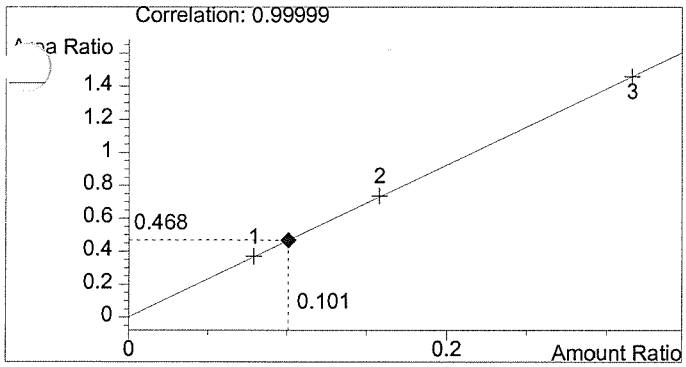
Instrument 1 ED FORMOSO
DB-ALC1

vial # 15

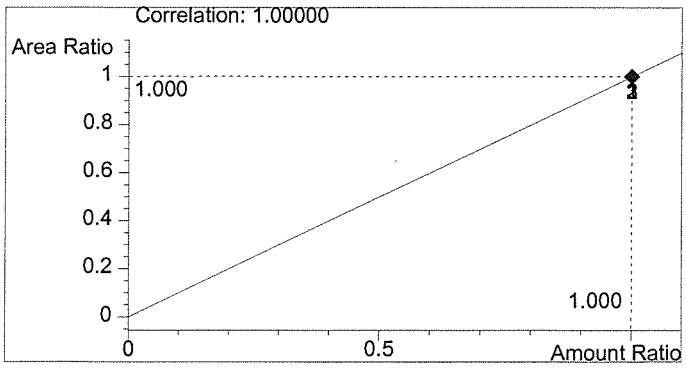


#	Compound	Area	RT
1	Ethanol	1528	1.041
2	n-Propanol	3264	1.701

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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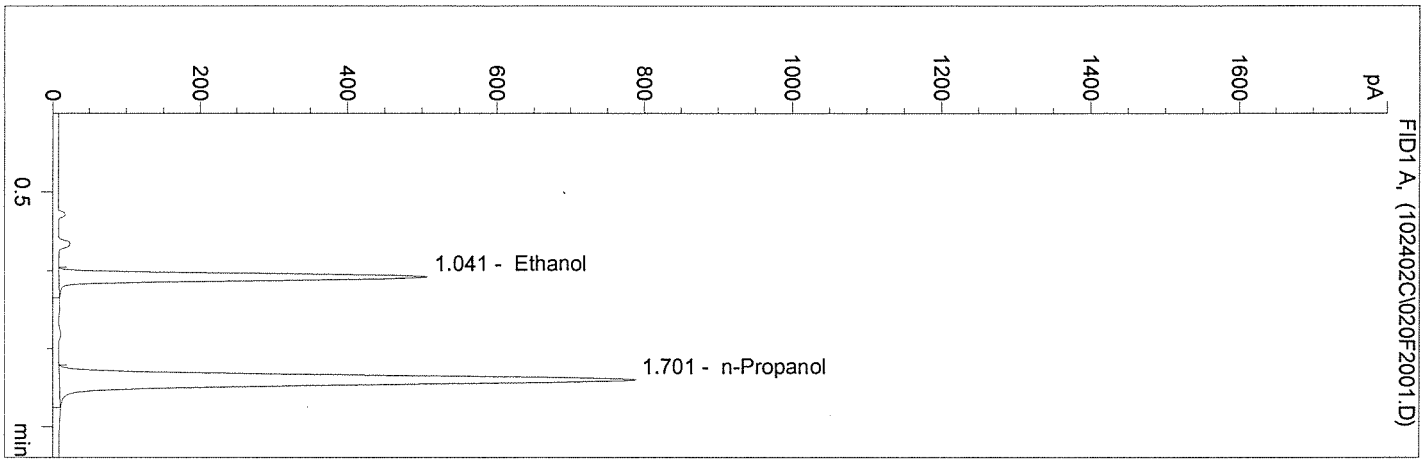
Instrument 1
DB-ALC1

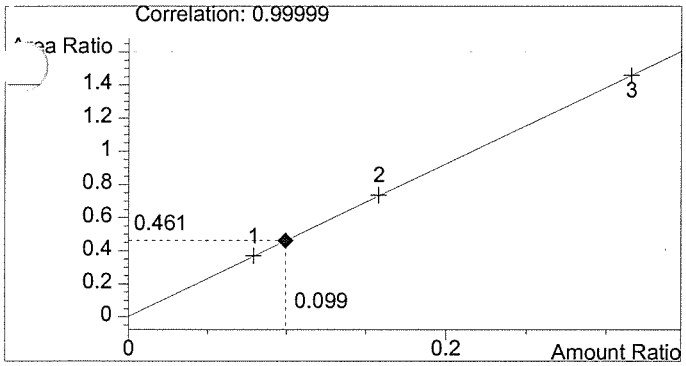
0.10 CONTROL
ED FORMOSO

vial # 20

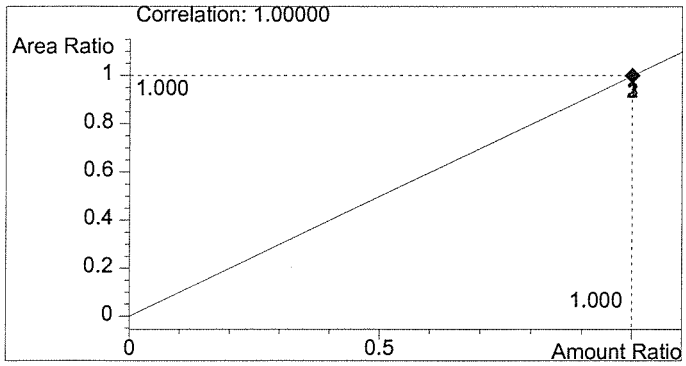


#	Compound	Area	RT
1	Ethanol	1515	1.041
2	n-Propanol	3284	1.701

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
DB-ALC1

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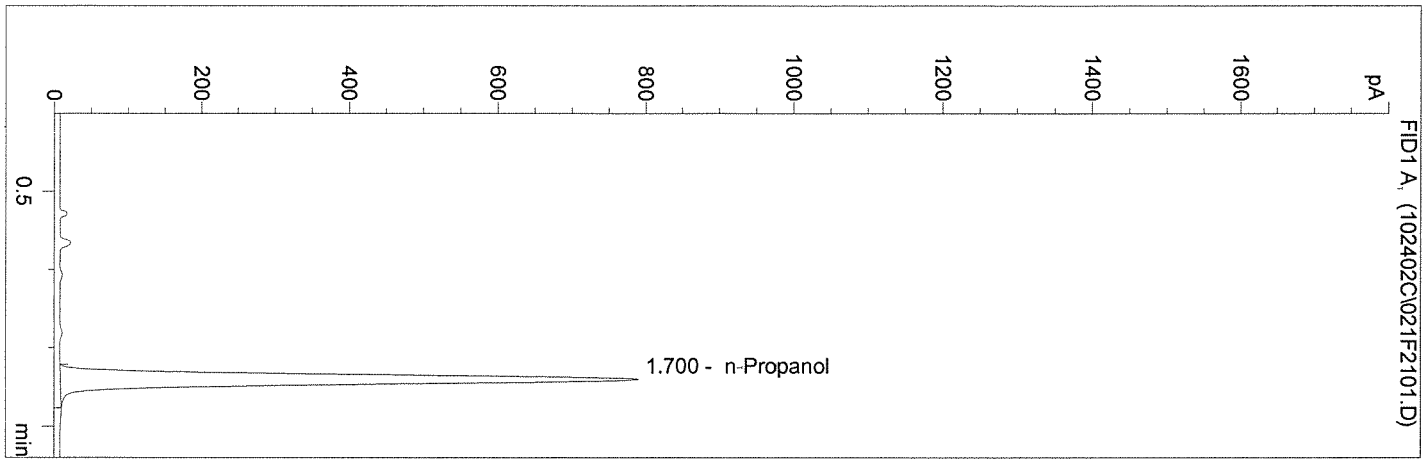
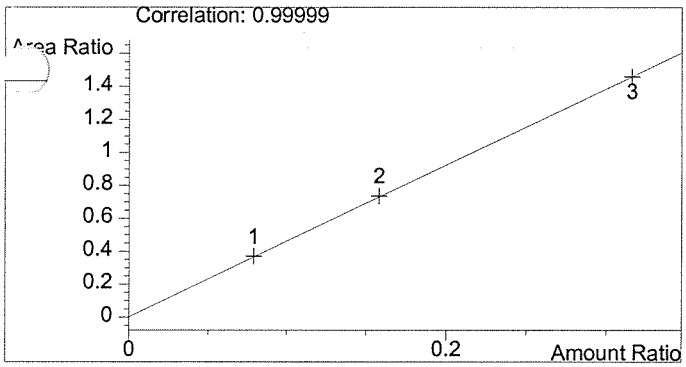
ED FORMOSO

vial # 21

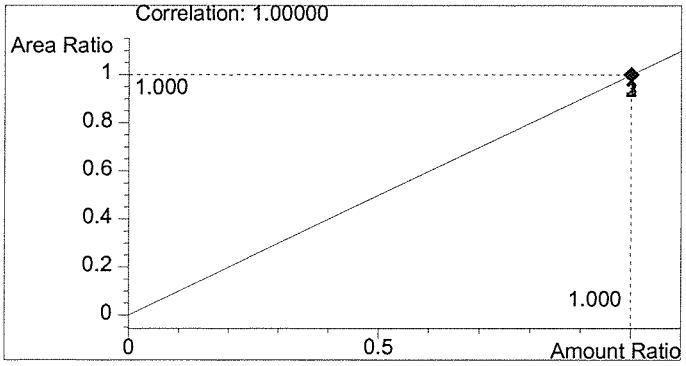


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3291	1.700

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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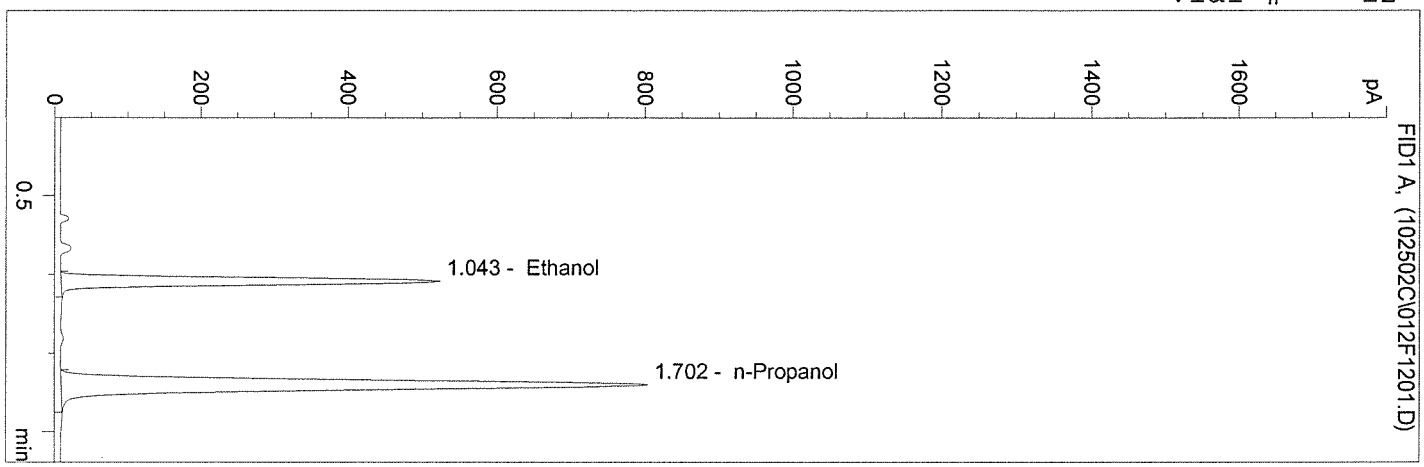
Instrument 1
-ALC1

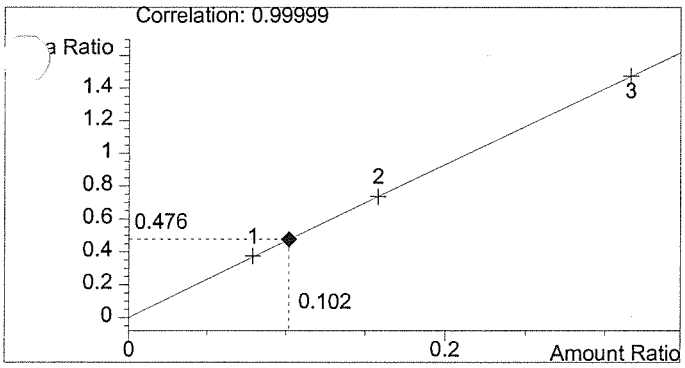
02036 SIM SOLN
M PEMBERTON

vial # 12

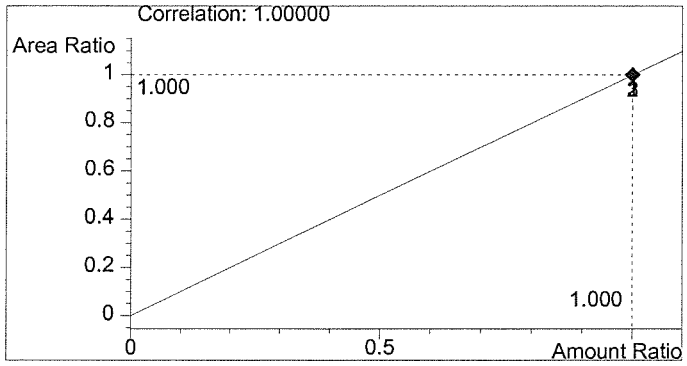


#	Compound	Area	RT
1	Ethanol	1612	1.043
2	n-Propanol	3384	1.702

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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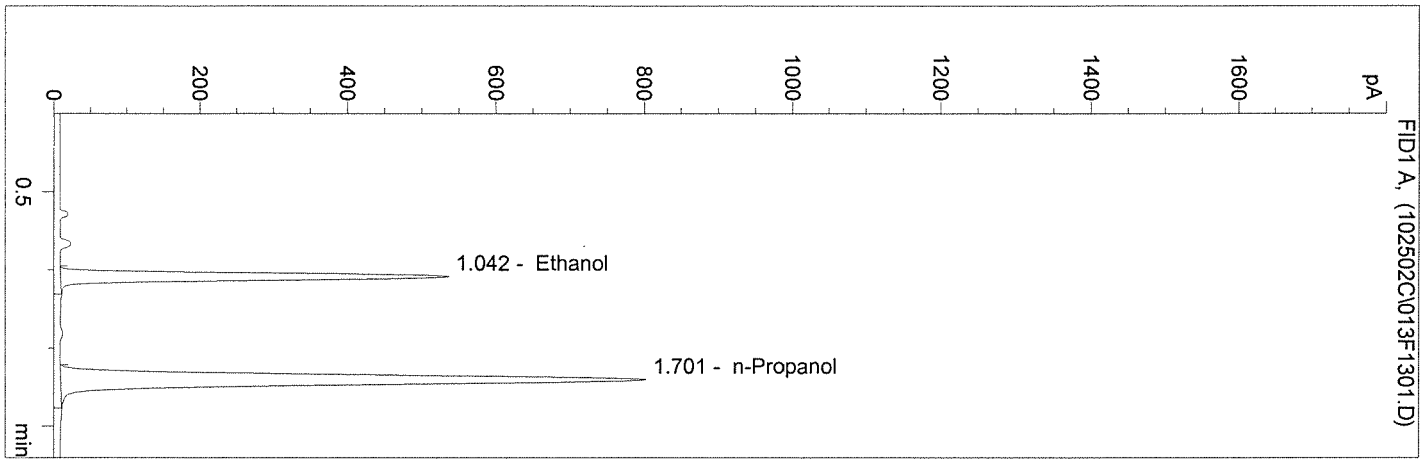
10/25/02 11:29:01 AM
Instrument 1
-ALC1

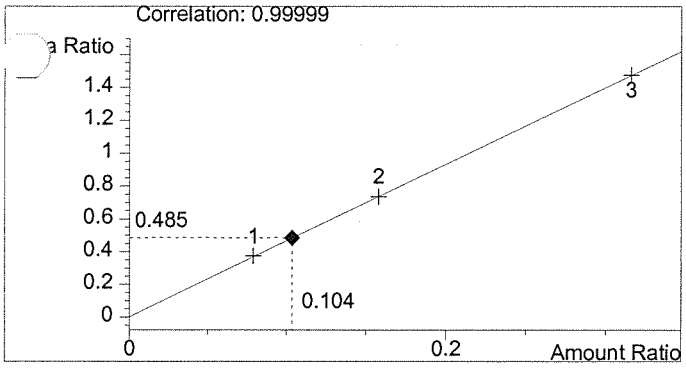
02036 SIM SOLN
M PEMBERTON

vial # 13

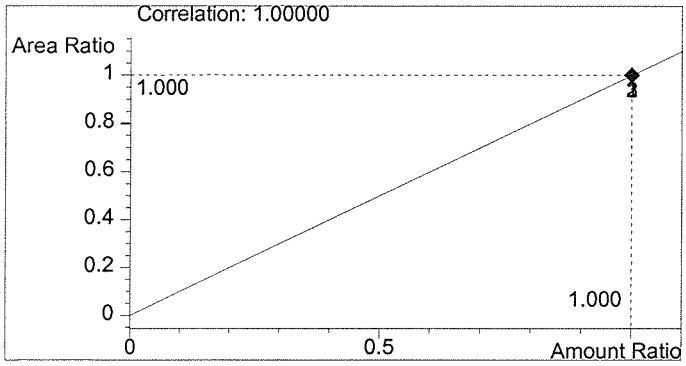


#	Compound	Area	RT
1	Ethanol	1632	1.042
2	n-Propanol	3363	1.701

Totals:



Ethanol 0.104 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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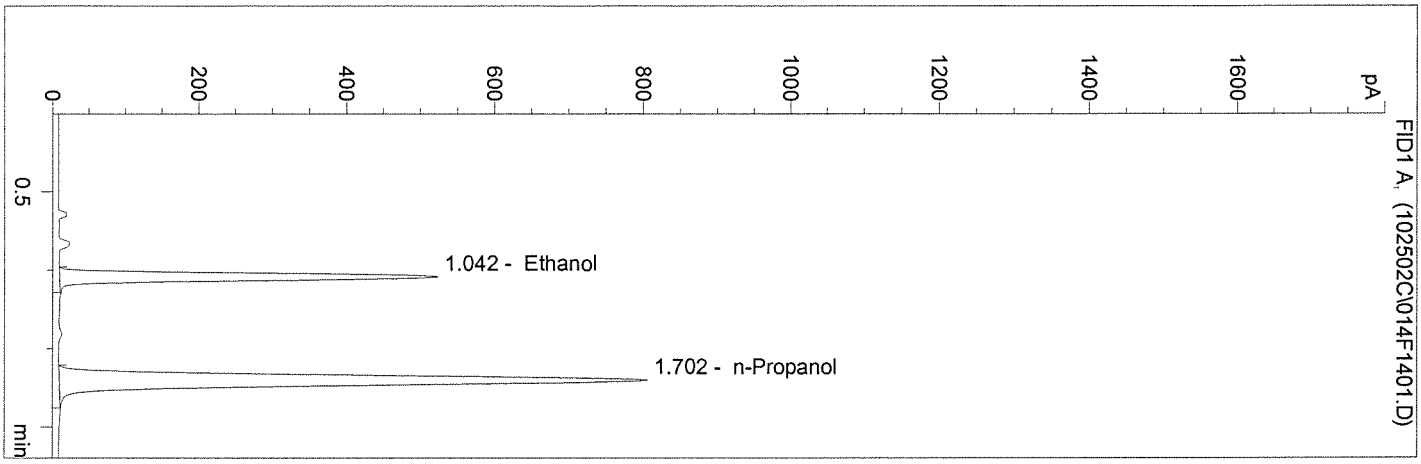
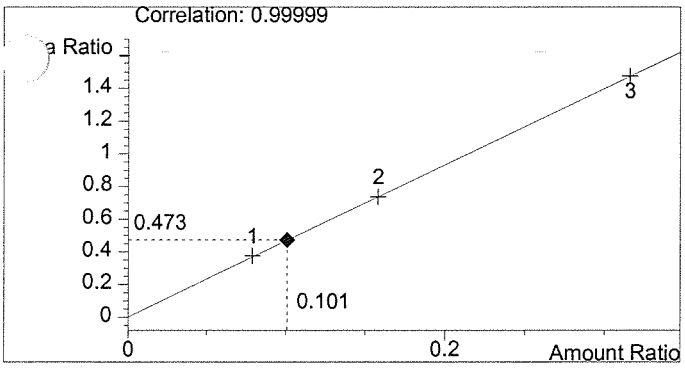
02036 SIM SOLN
M PEMBERTON

vial # 14

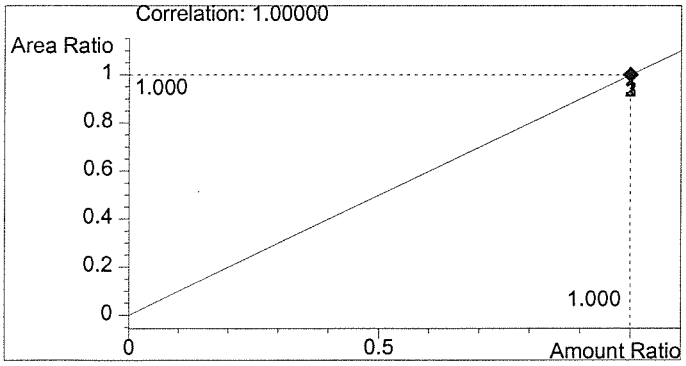


#	Compound	Area	RT
1	Ethanol	1602	1.042
2	n-Propanol	3389	1.702

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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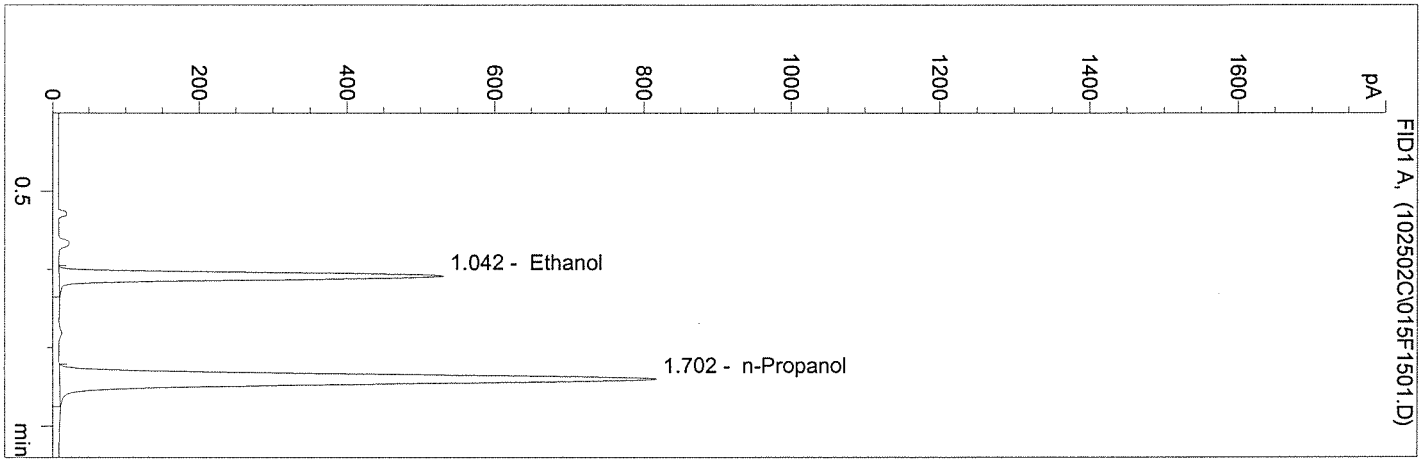
10/25/02 11:35:04 AM
Instrument 1
-ALC1

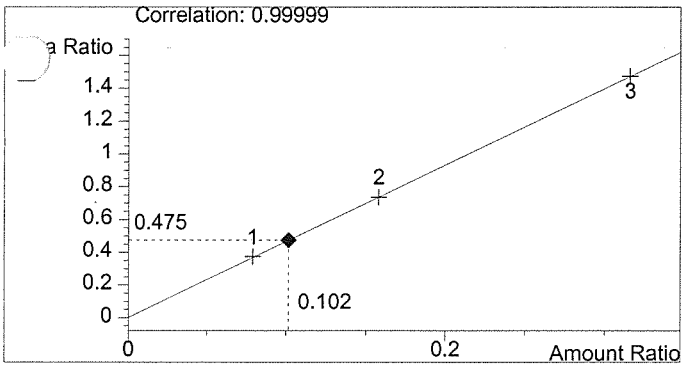
02036 SIM SOLN
M PEMBERTON

vial # 15

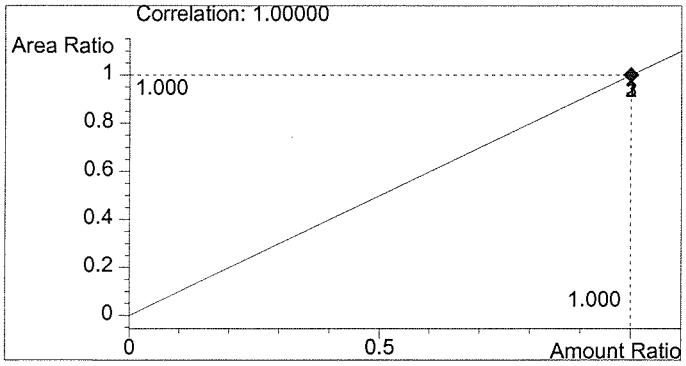


#	Compound	Area	RT
1	Ethanol	1636	1.042
2	n-Propanol	3441	1.702

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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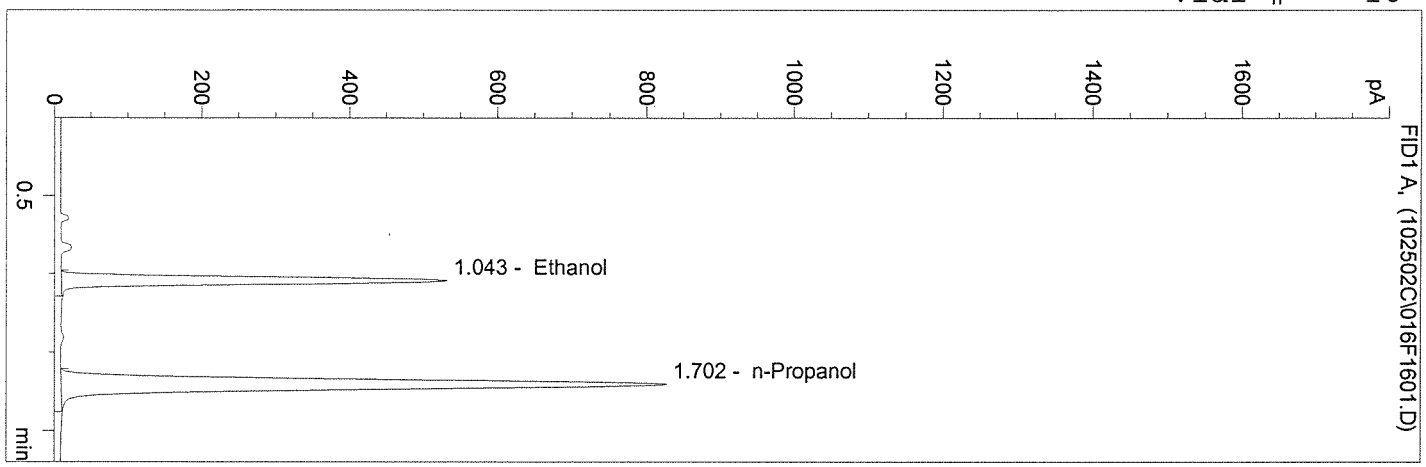
Instrument 1
[illegible]-ALC1

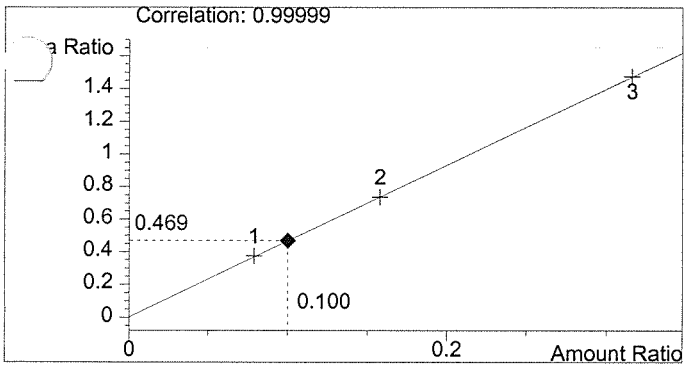
02036 SIM SOLN
M PEMBERTON

vial # 16

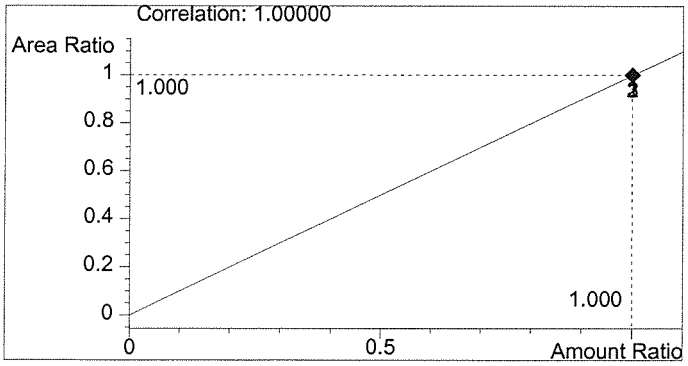


#	Compound	Area	RT
1	Ethanol	1634	1.043
2	n-Propanol	3488	1.702

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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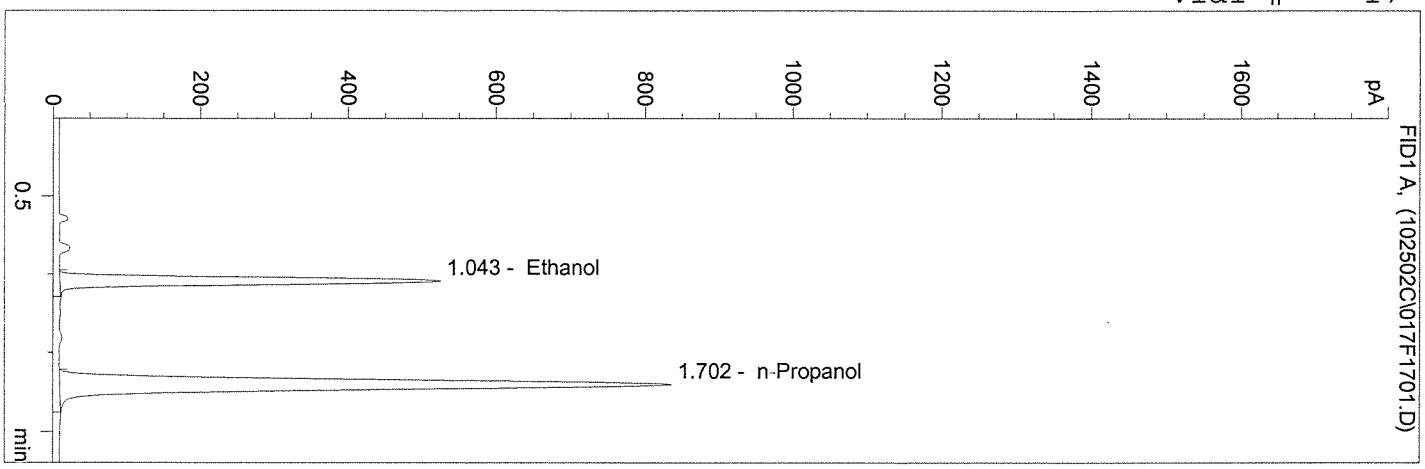
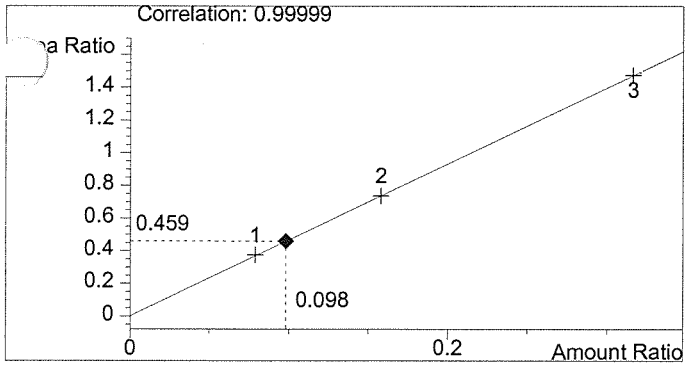
10/25/02 11:41:15 AM
Instrument 1
-ALC1

0.10 CONTROL
M PEMBERTON

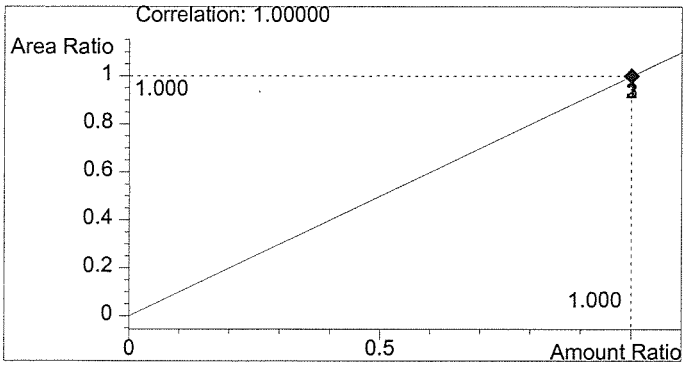
vial # 17



#	Compound	Area	RT
1	Ethanol	1616	1.043
2	n-Propanol	3519	1.702
Totals:			



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

STANDARDS IN ST026382

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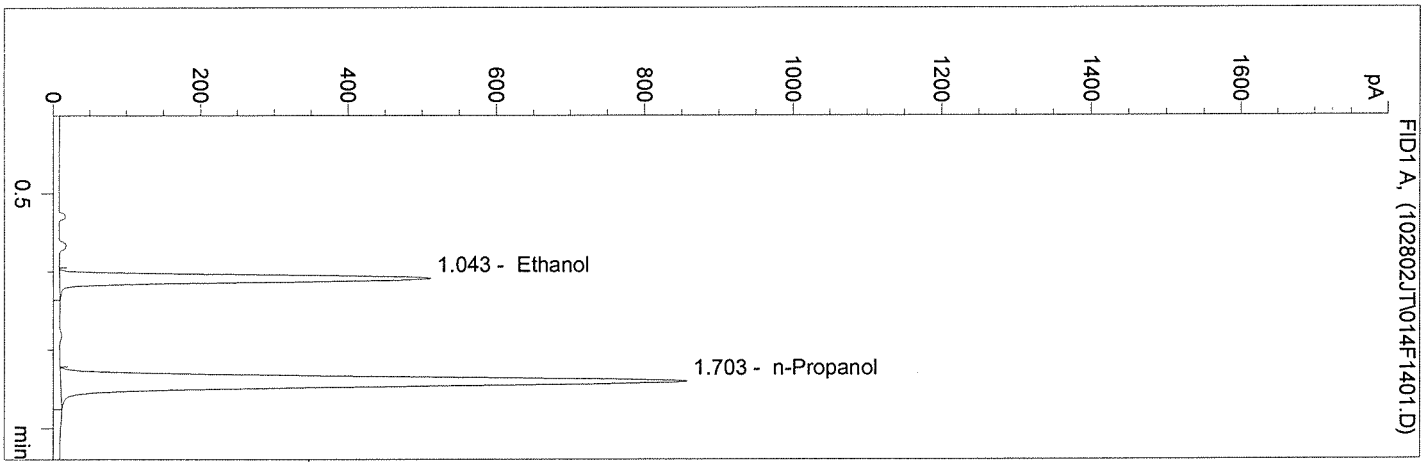
10/28/02 12:34:28 PM
Instrument 1
[illegible]-ALC1

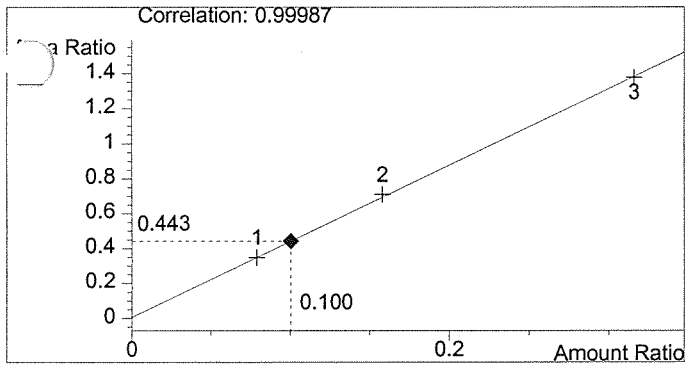
SIMSOLN02036-1
Jayne E. Thatcher

vial # 14

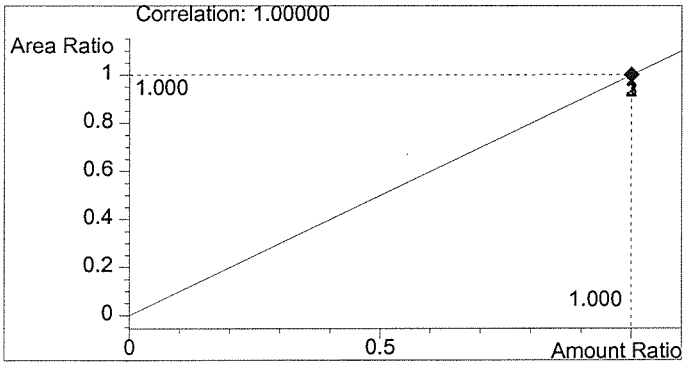


#	Compound	Area	RT
1	Ethanol	1610	1.043
2	n-Propanol	3635	1.703

Totals:



Ethanol 0.100 g/100ml



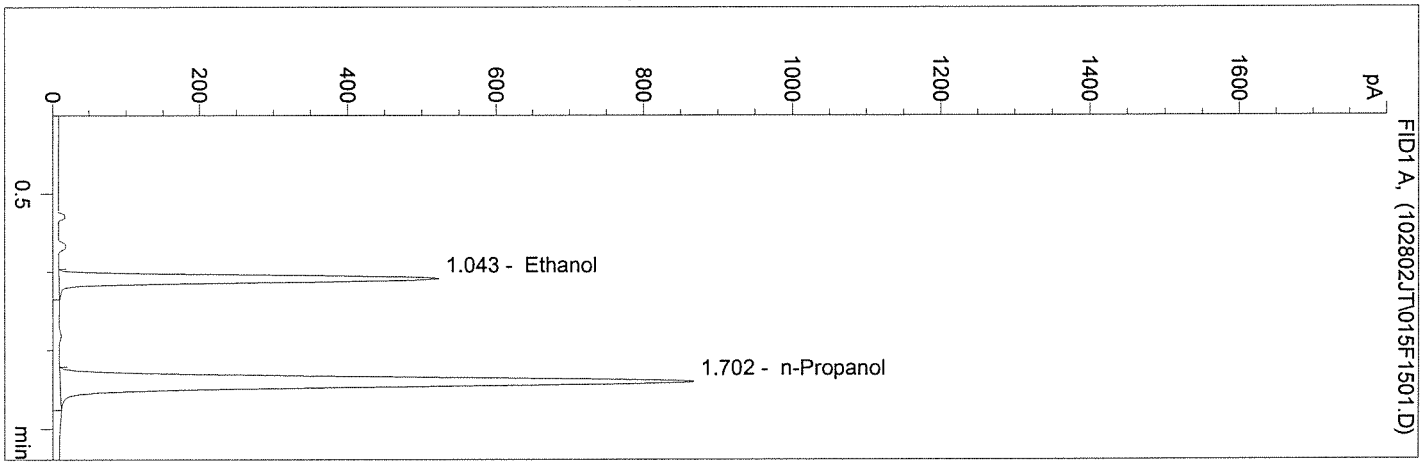
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
10/28/02 12:37:20 PM
Instrument 1
[illegible]-ALC1

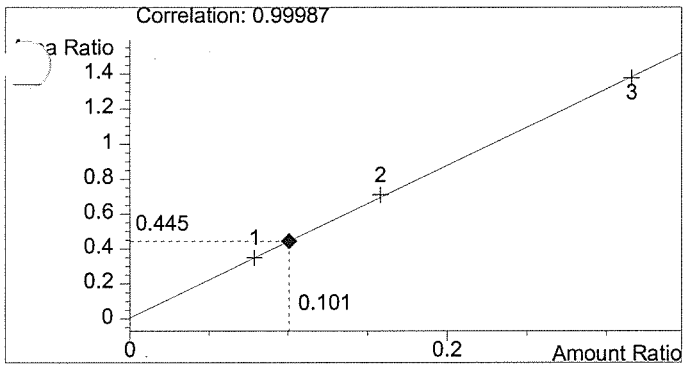
SIMSOLN02036-2
Jayne E. Thatcher

vial # 15

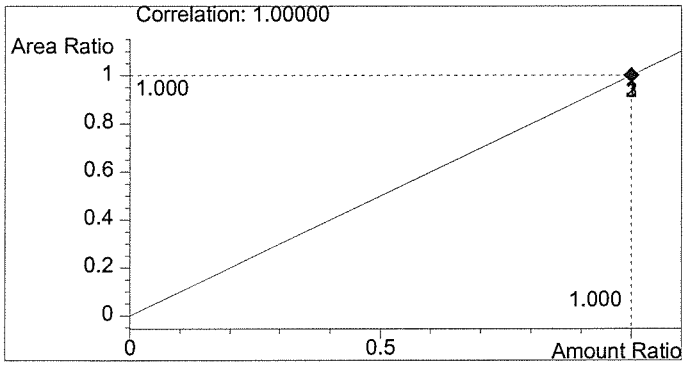


#	Compound	Area	RT
1	Ethanol	1636	1.043
2	n-Propanol	3676	1.702

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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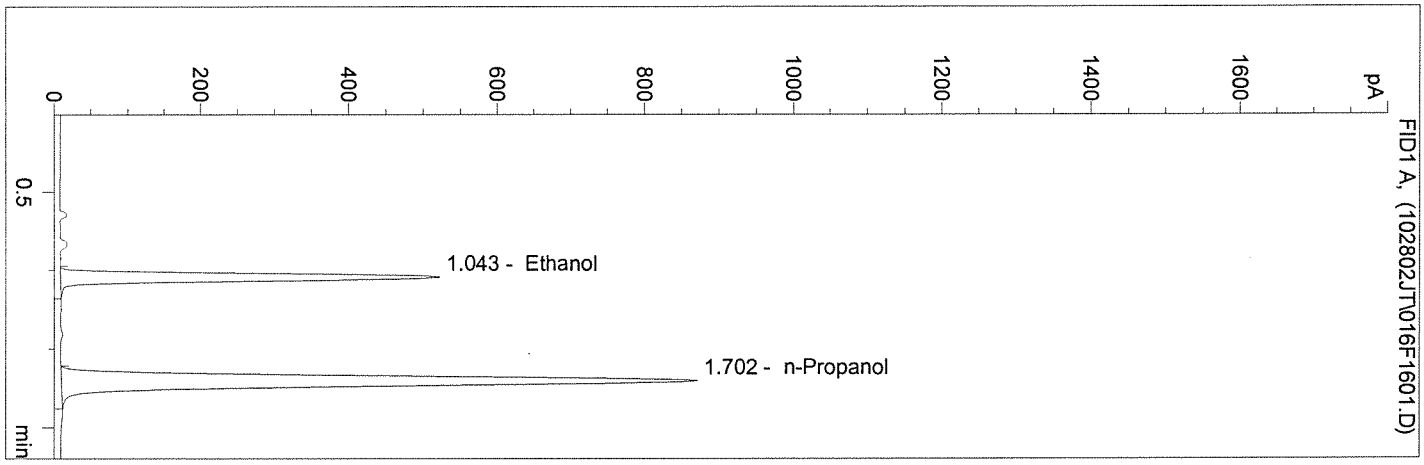
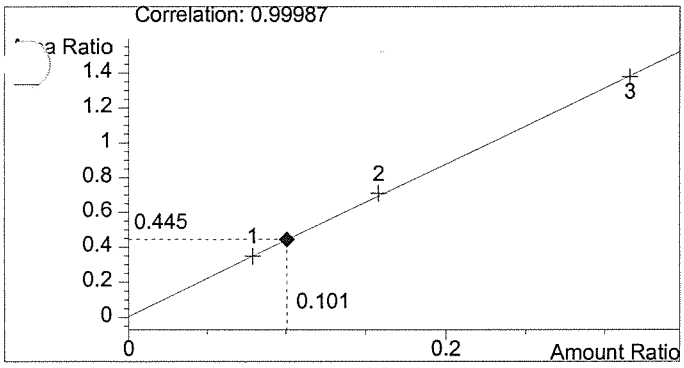
Instrument 1
DB-ALC1

SIMSOLN02036-3
Jayne E. Thatcher

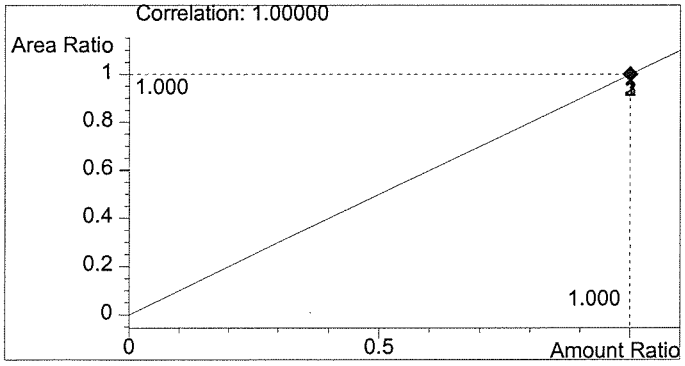
vial # 16



#	Compound	Area	RT
1	Ethanol	1641	1.043
2	n-Propanol	3690	1.702
Totals:			



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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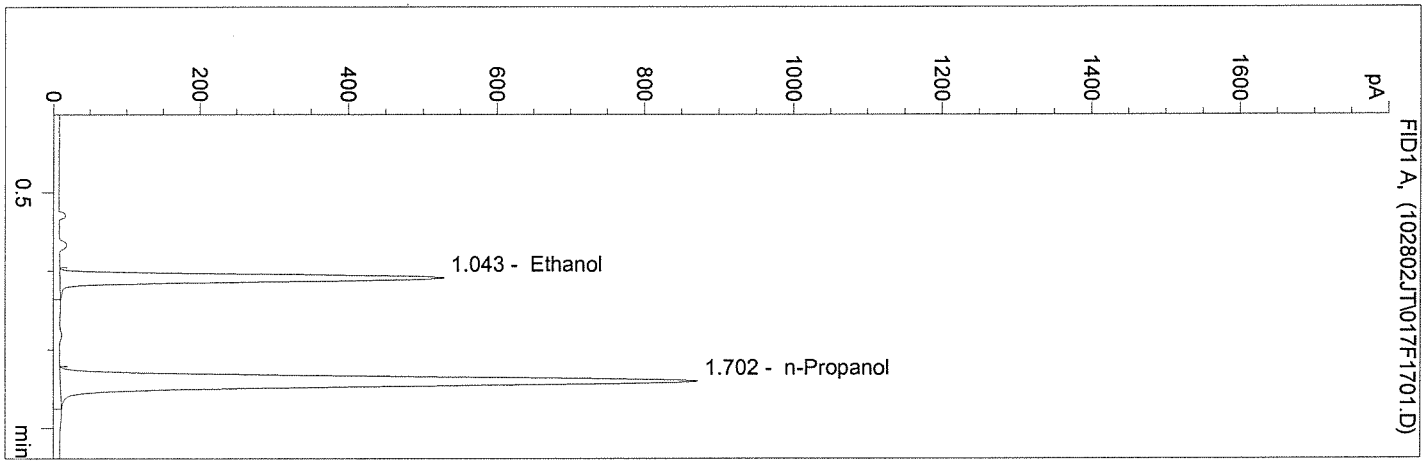
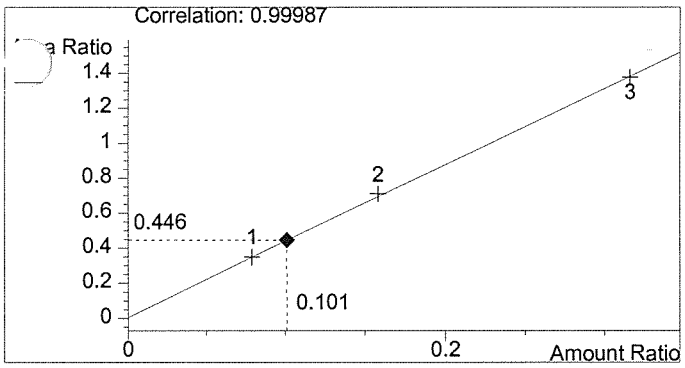
10/28/02 12:43:21 PM
Instrument 1
-ALC1

SIMSOLN02036-4
Jayne E. Thatcher

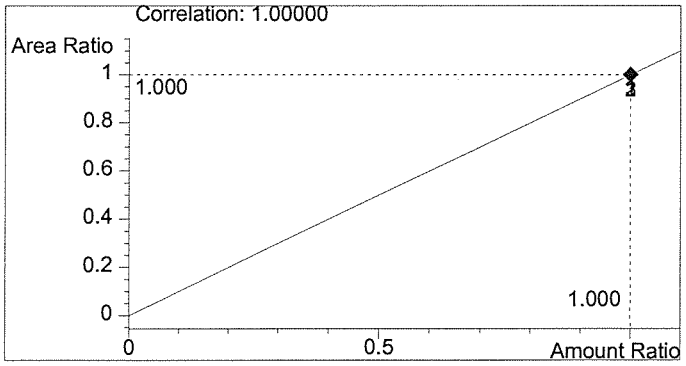
vial # 17



#	Compound	Area	RT
1	Ethanol	1648	1.043
2	n-Propanol	3693	1.702
Totals:			



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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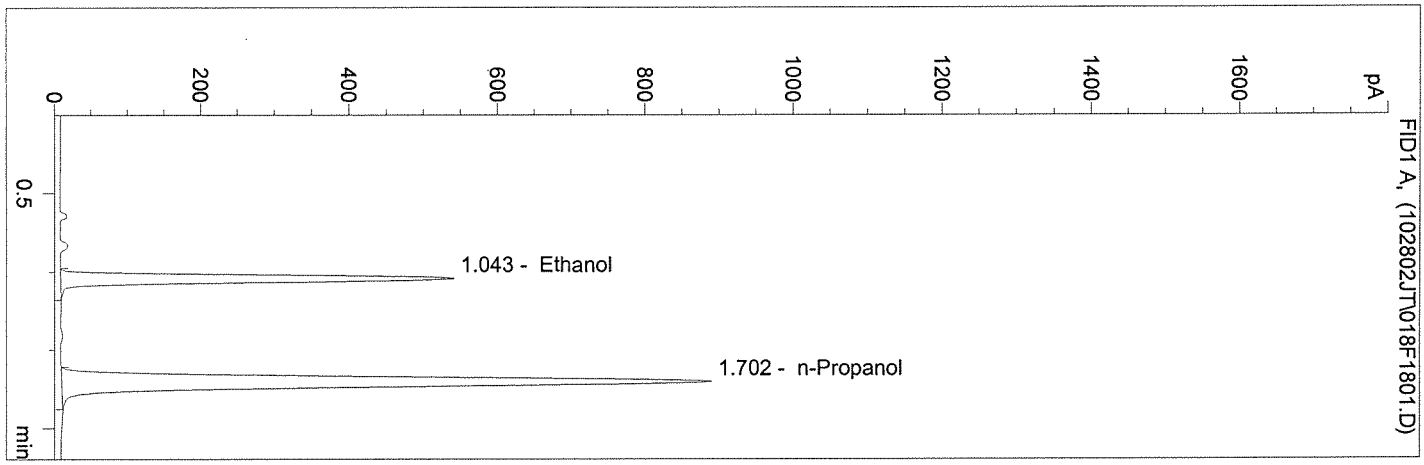
10/28/02 12:46:07 PM
Instrument 1
D[illegible]-ALC1

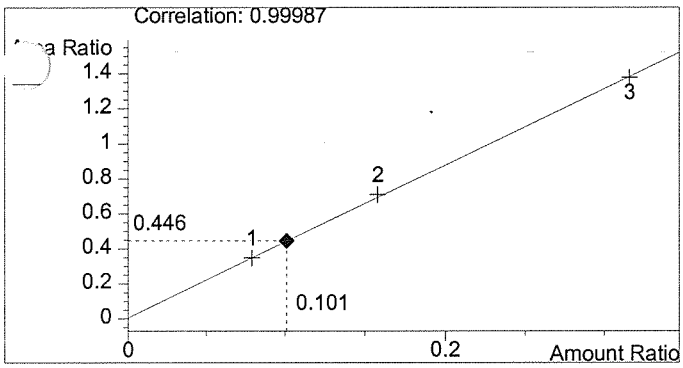
SIMSOLN02036-5
Jayne E. Thatcher

vial # 18

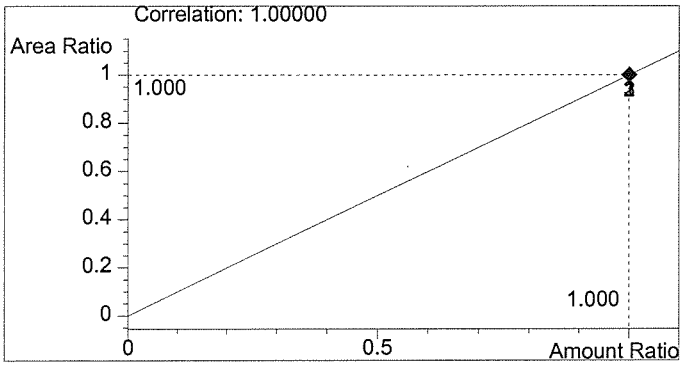


#	Compound	Area	RT
1	Ethanol	1672	1.043
2	n-Propanol	3748	1.702

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

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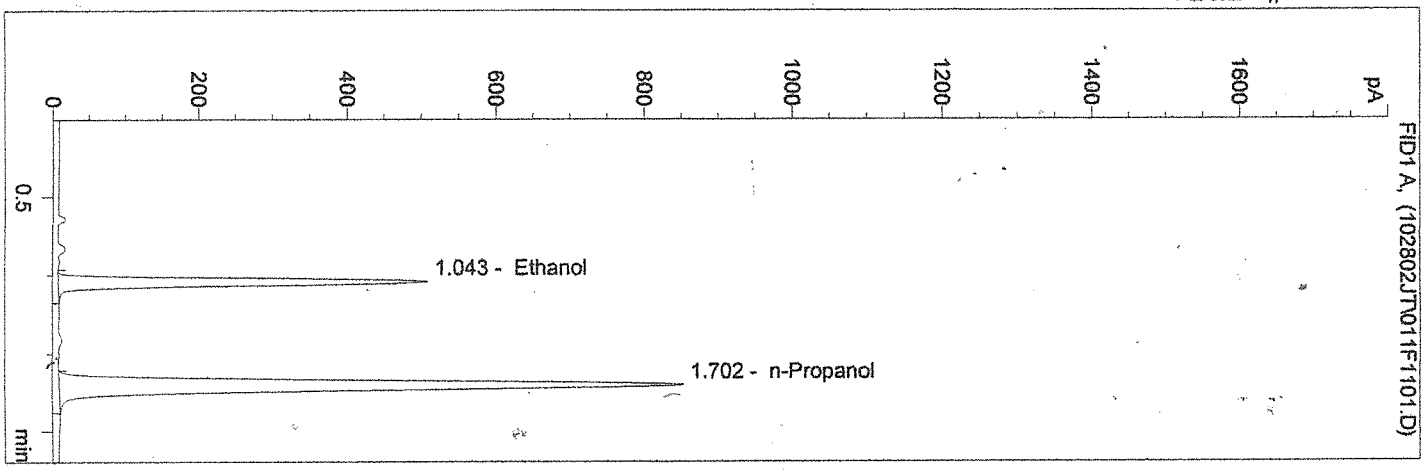
ıstrument 1
ALC1

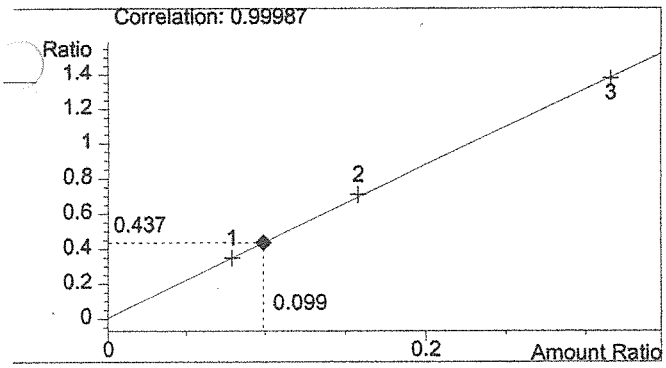
0.10 CONTROL
Jayne E. Thatcher

vial # 11

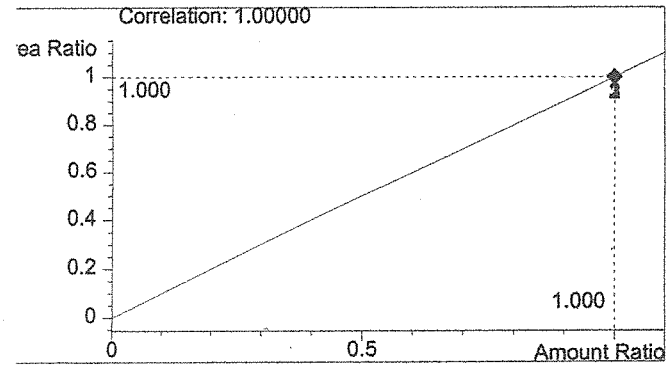


#	Compound	Area	RT
1	Ethanol	1576	1.043
2	n-Propanol	3603	1.702

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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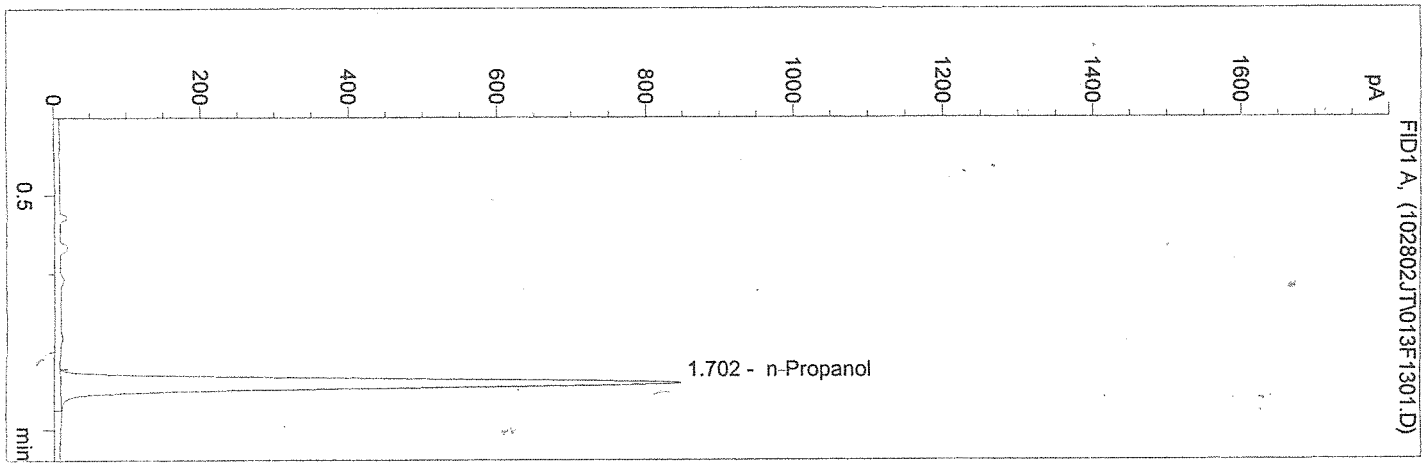
nstrument 1
-ALC1

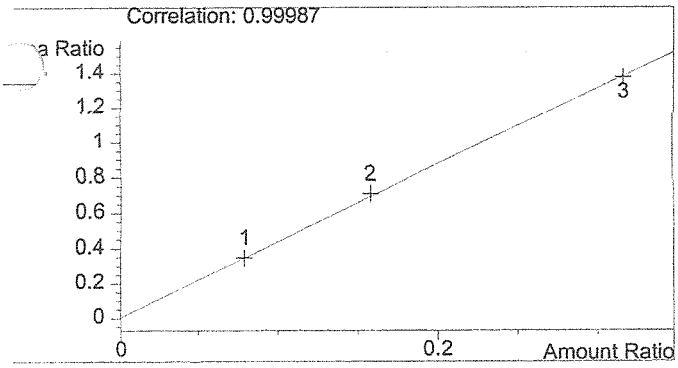
BLANK
Jayne E. Thatcher

vial # 13

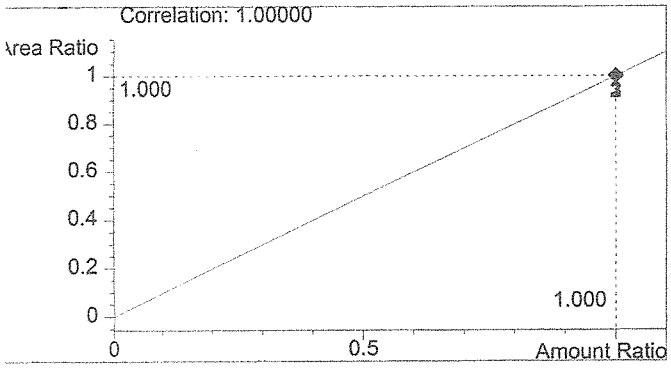


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3576	1.702

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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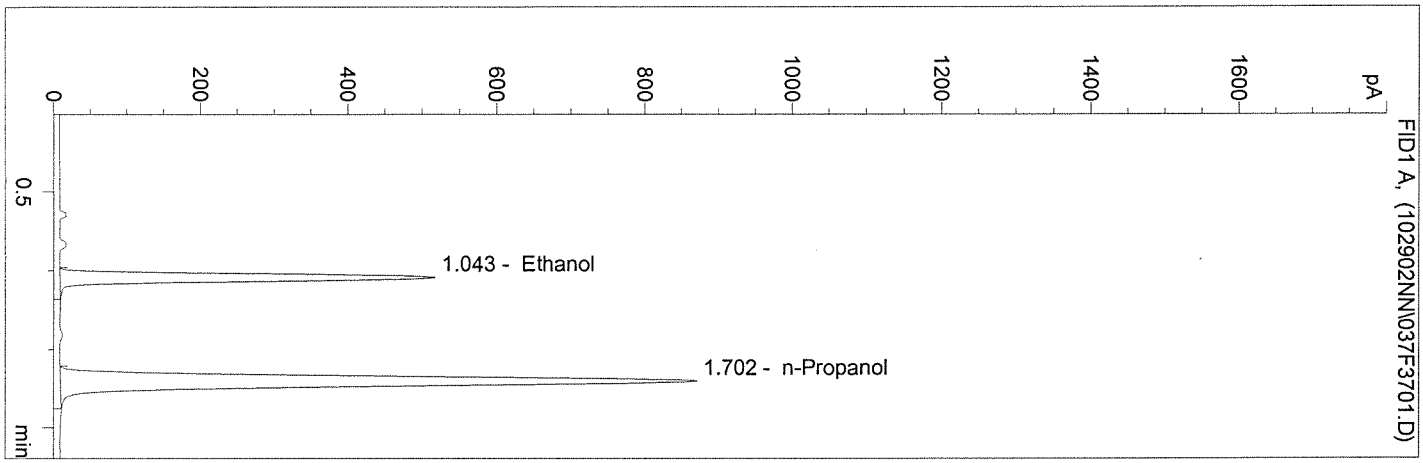
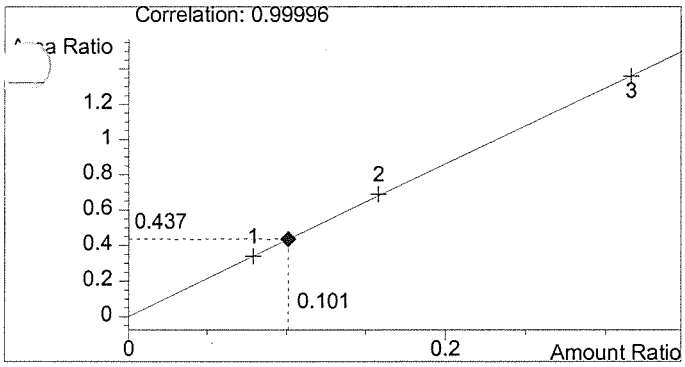
Instrument 1
DR-ALC1

02036-1 sim
Naziha Nuwayhid, PhD

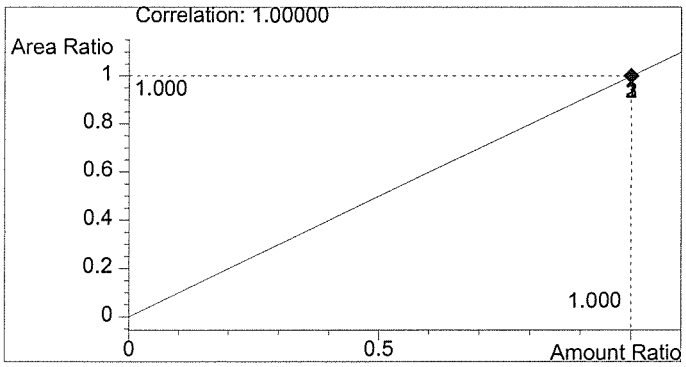
vial # 37



#	Compound	Area	RT
1	Ethanol	1609	1.043
2	n-Propanol	3685	1.702
Totals:			



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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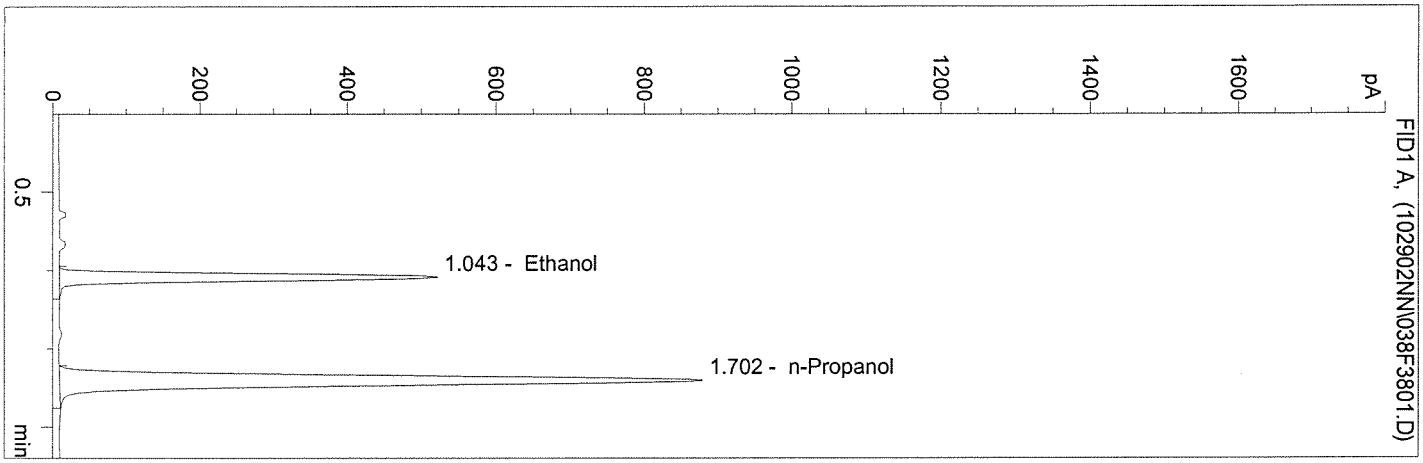
10/29/02 12:09:00 PM
Instrument 1
[illegible]-ALC1

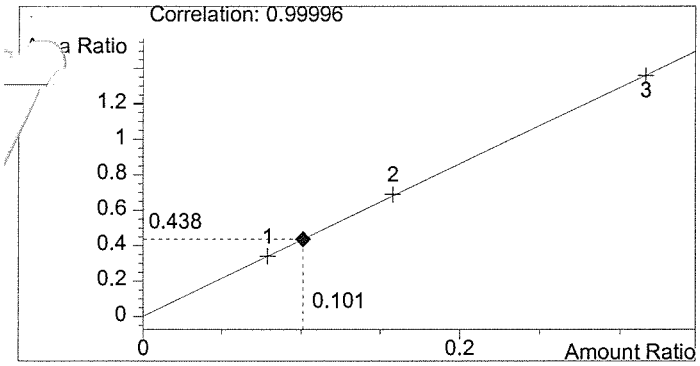
02036-2 sim
Naziha Nuwayhid, PhD

vial # 38

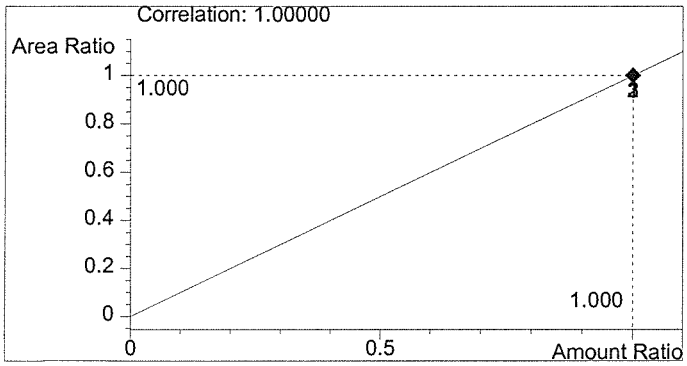


#	Compound	Area	RT
1	Ethanol	1629	1.043
2	n-Propanol	3721	1.702

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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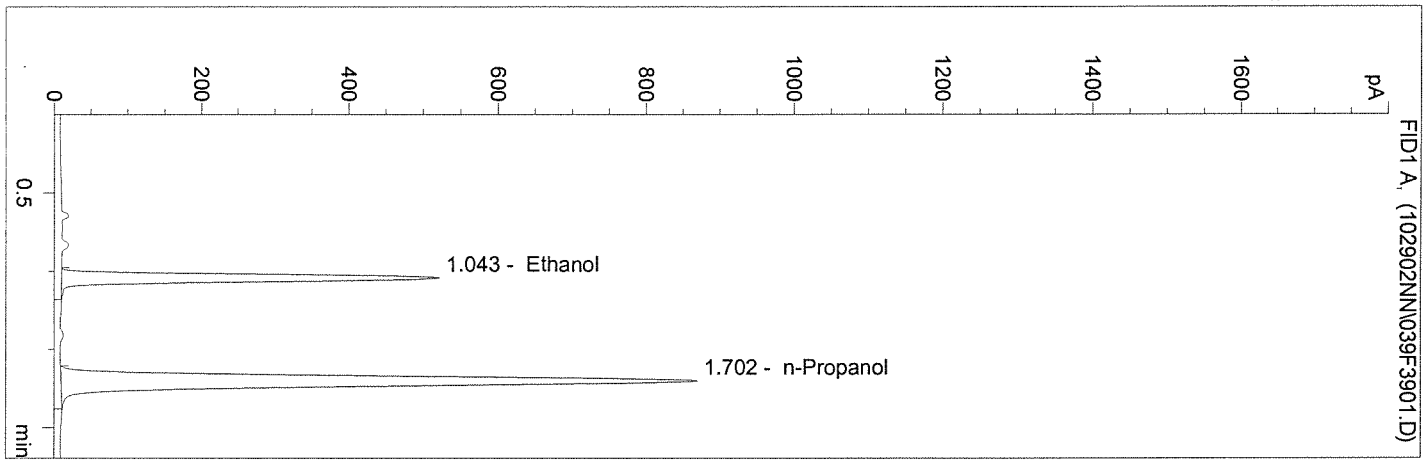
Instrument 1
-ALC1

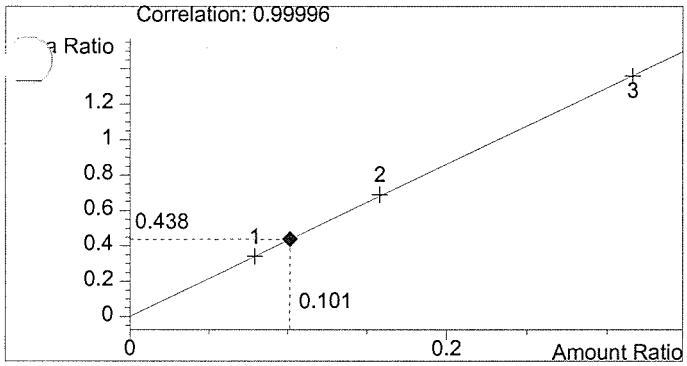
02036-3 sim
Naziha Nuwayhid, PhD

vial # 39

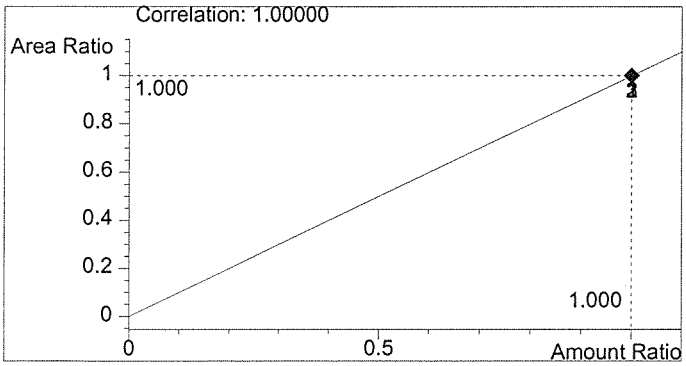


#	Compound	Area	RT
1	Ethanol	1608	1.043
2	n-Propanol	3667	1.702

Totals:



Ethanol 0.101 g/100ml



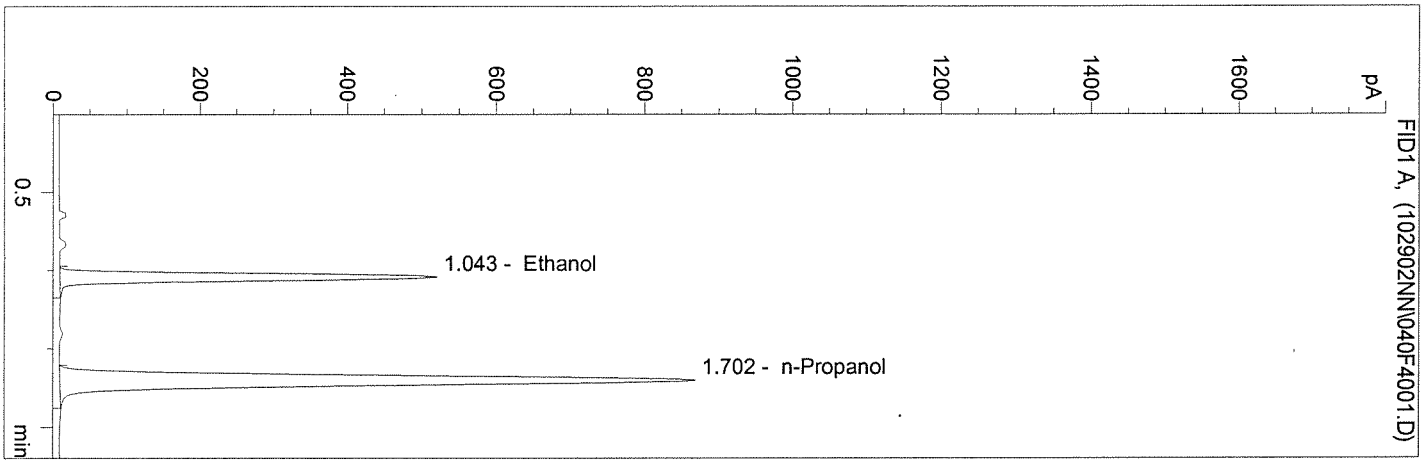
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

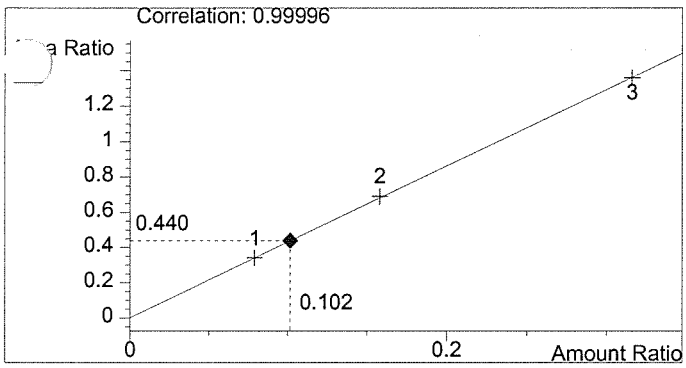
C:\HPCHEM\1\METHODS\BLDALCO.M
10/29/02 12:15:09 PM
Instrument 1
[illegible]-ALC1

02036-4 sim
Naziha Nuwayhid, PhD

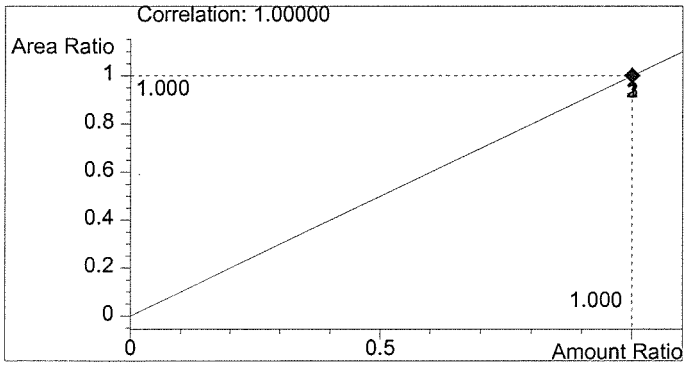
vial # 40



#	Compound	Area	RT
1	Ethanol	1615	1.043
2	n-Propanol	3673	1.702
Totals:			



Ethanol 0.102 g/100ml



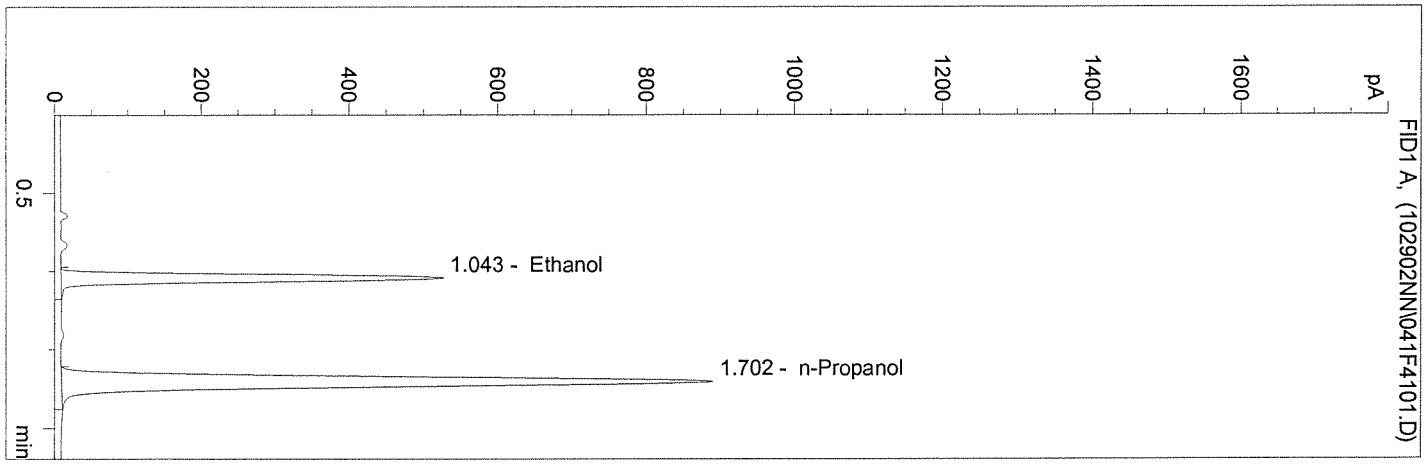
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

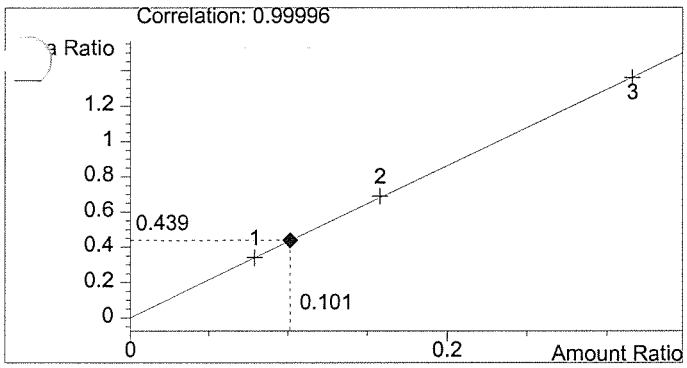
C:\HPCHEM\1\METHODS\BLDALCO.M
10/29/02 12:18:21 PM
Instrument 1
-ALC1

02036-5 sim
Naziha Nuwayhid, PhD

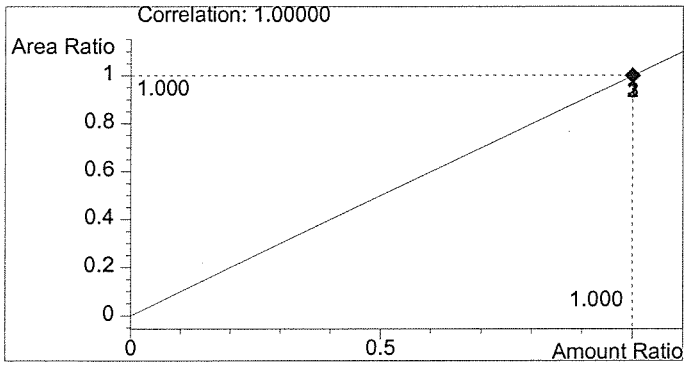
vial # 41



#	Compound	Area	RT
1	Ethanol	1654	1.043
2	n-Propanol	3772	1.702
Totals:			



Ethanol 0.101 g/100ml



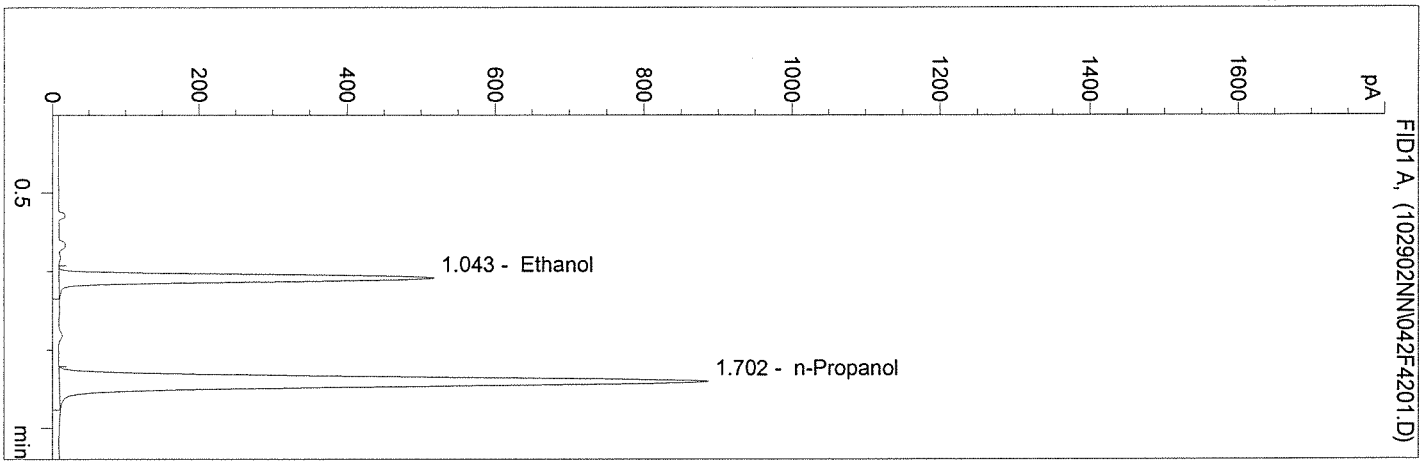
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
10/29/02 12:21:23 PM
Instrument 1
[illegible]-ALC1

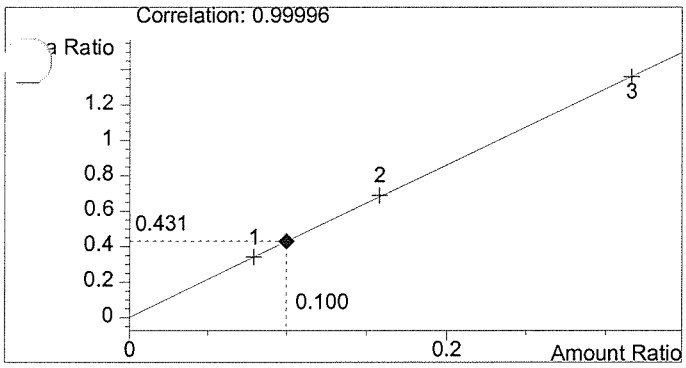
0.100 ctrl
Naziha Nuwayhid, PhD

vial # 42

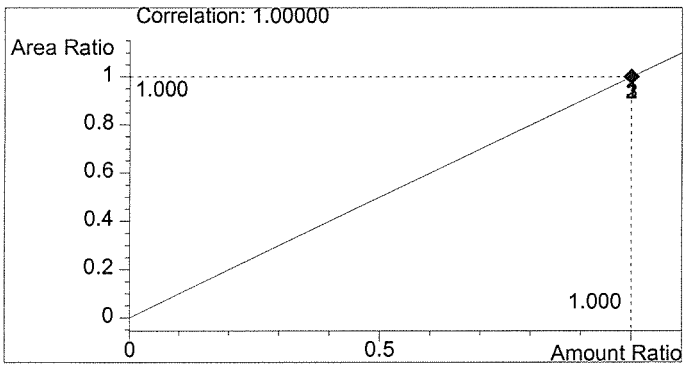


#	Compound	Area	RT
1	Ethanol	1610	1.043
2	n-Propanol	3739	1.702

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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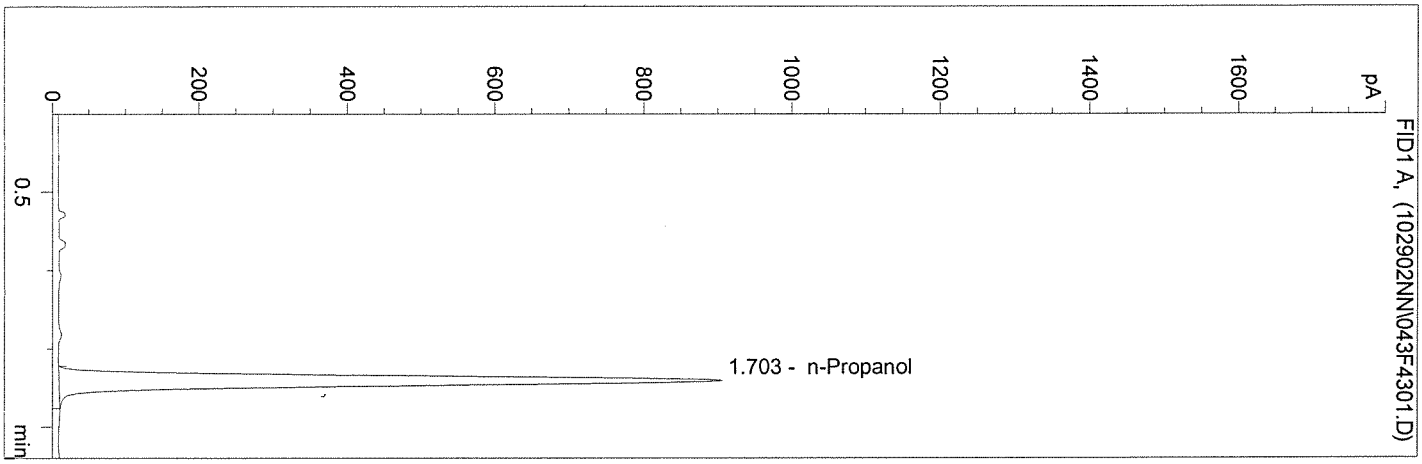
10/29/02 12:24:25 PM
Instrument 1
[illegible]-ALC1

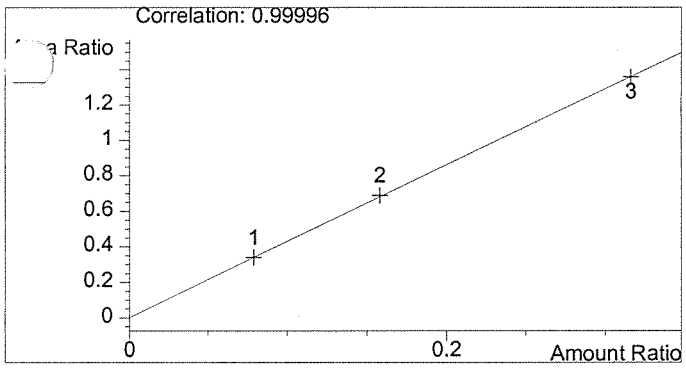
blank
Naziha Nuwayhid, PhD

vial # 43

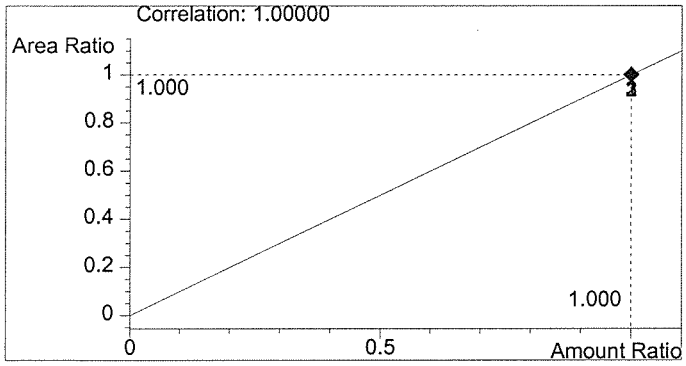


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3842	1.703

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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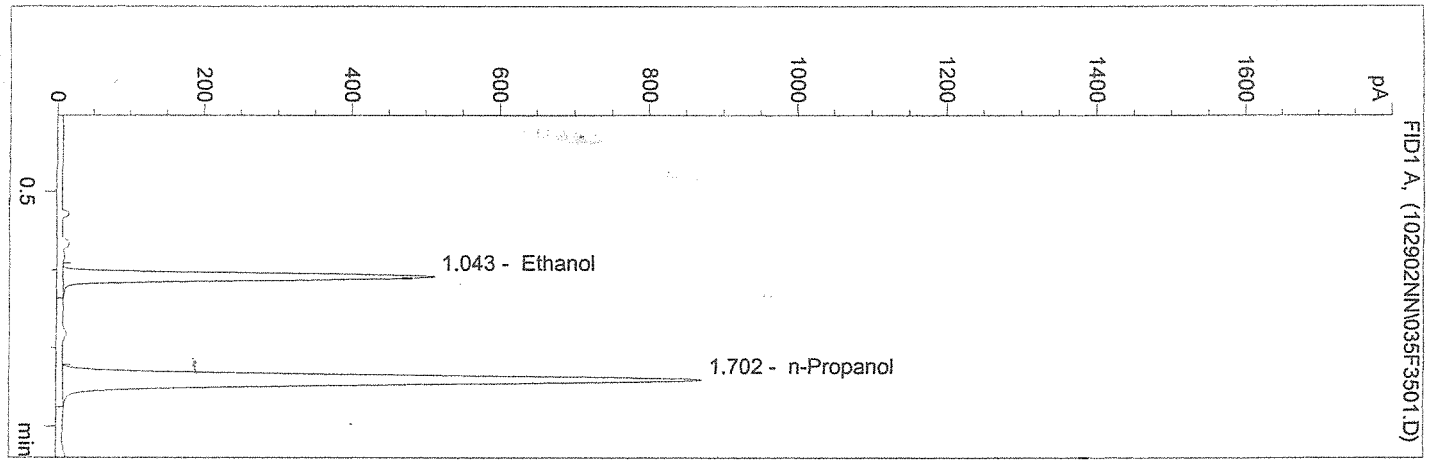
10/29/02 11:59:37 AM
Instrument 1
DB-ALC1

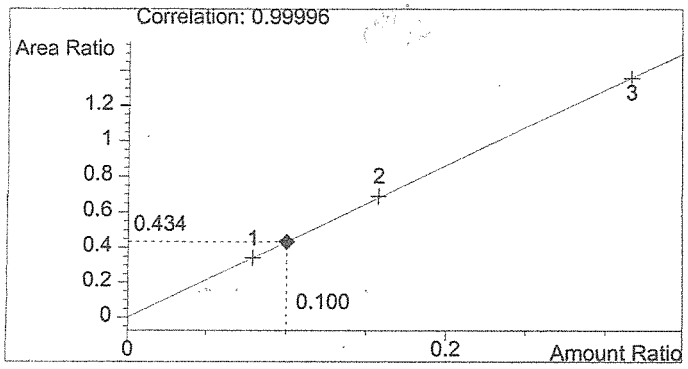
0.100 ctrl
Naziha Nuwayhid, PhD

vial # 35

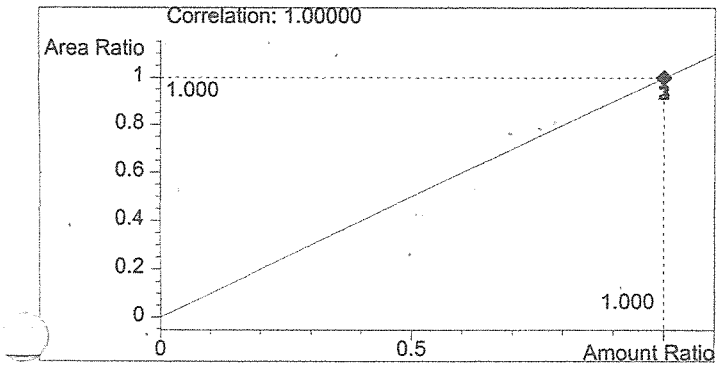


#	Compound	Area	RT
1	Ethanol	1594	1.043
2	n-Propanol	3676	1.702

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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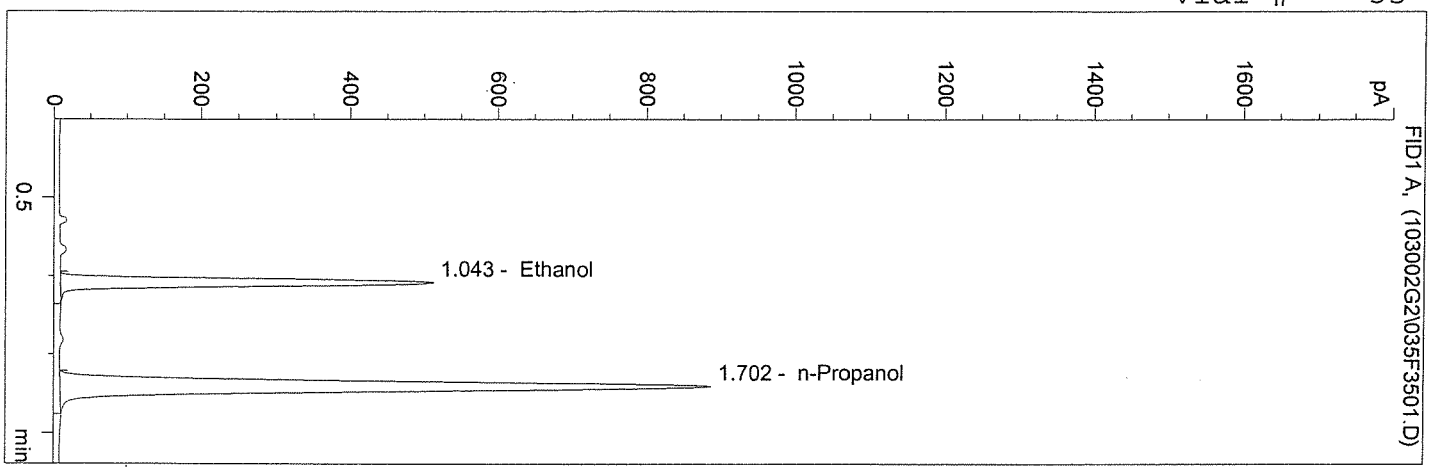
10/30/02 3:26:33 PM
Instrument 1
-ALC1

Cal 0264446

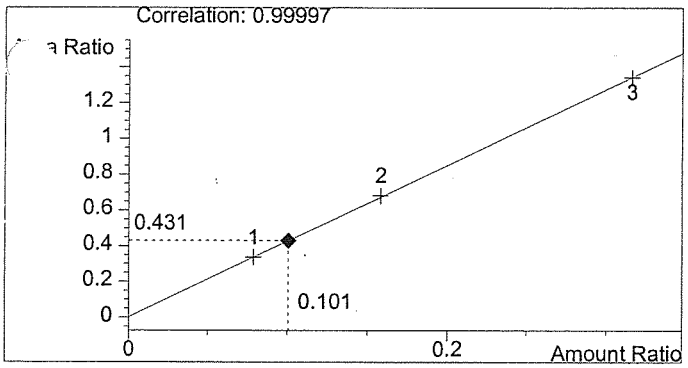
0.08SSOL 02036
GENE SCHWILKE

vial # 35

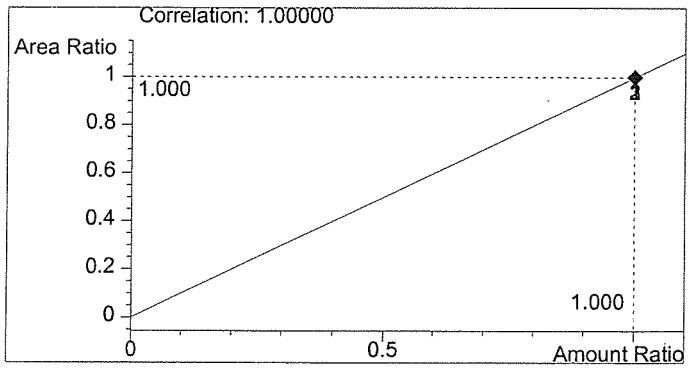


#	Compound	Area	RT
1	Ethanol	1634	1.043
2	n-Propanol	3791	1.702

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

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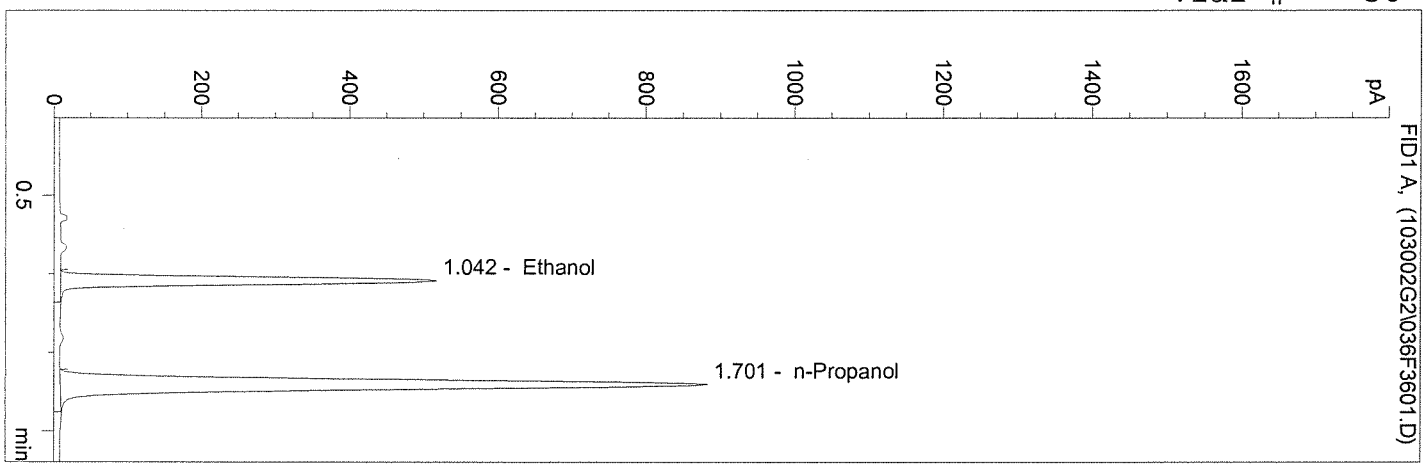
Instrument 1
[illegible]-ALC1

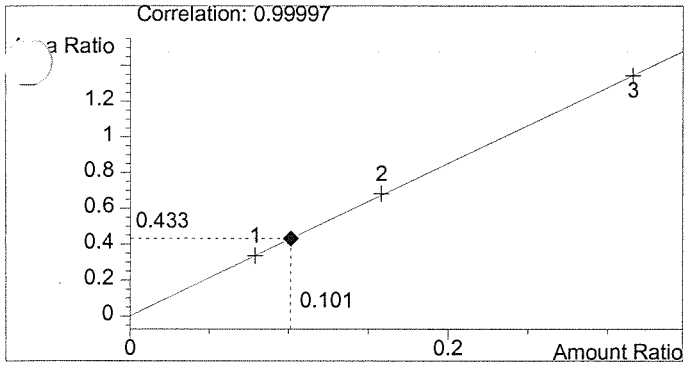
0.08SSOL 02036
GENE SCHWILKE

vial # 36

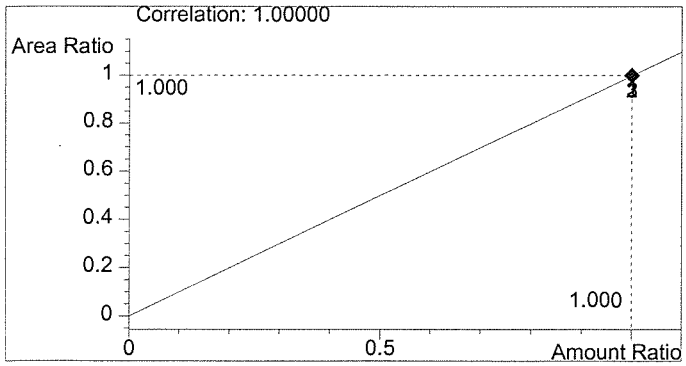


#	Compound	Area	RT
1	Ethanol	1624	1.042
2	n-Propanol	3748	1.701

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
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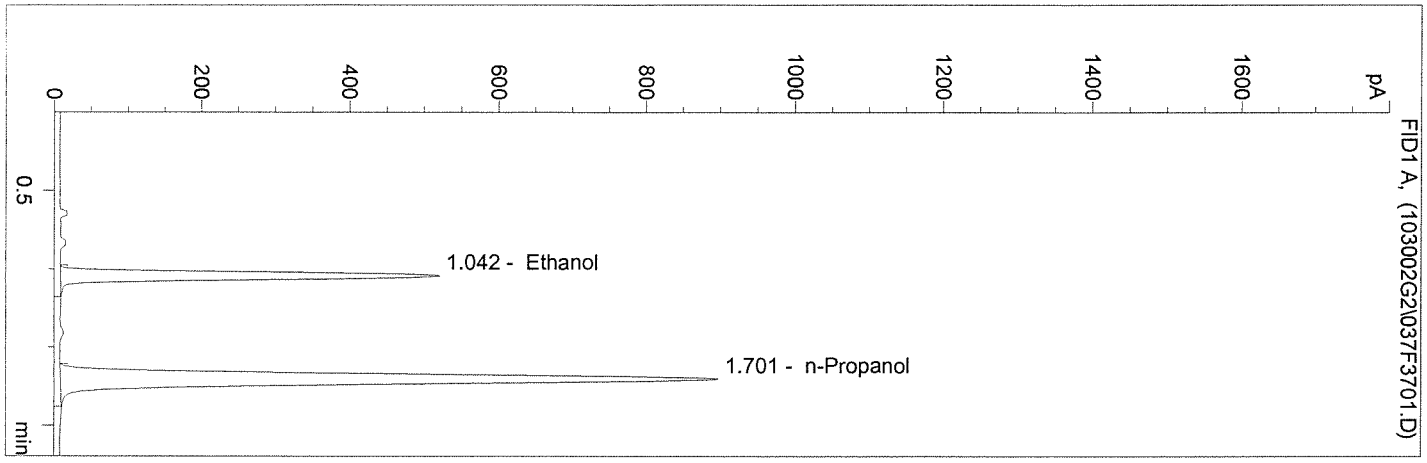
Instrument 1
[illegible]-ALC1

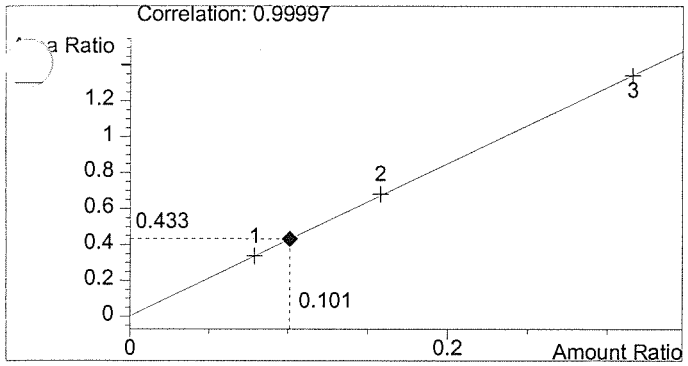
0.08SSOL 02036
GENE SCHWILKE

vial # 37

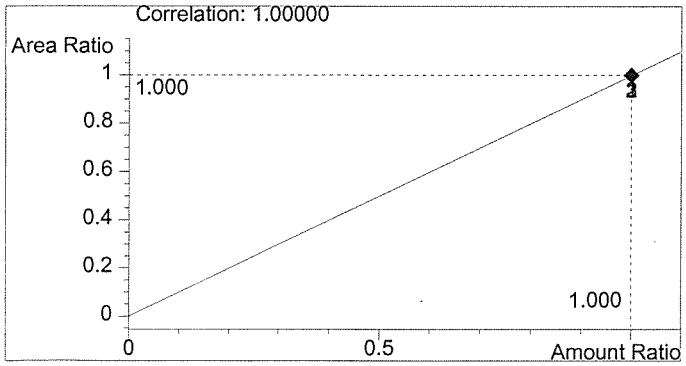


#	Compound	Area	RT
1	Ethanol	1656	1.042
2	n-Propanol	3826	1.701

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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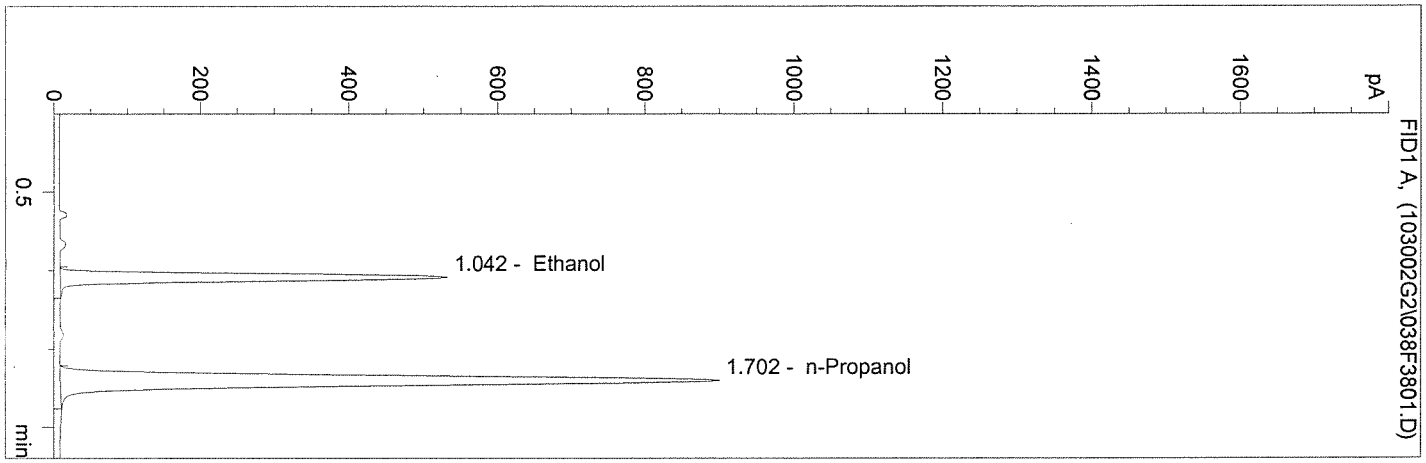
Instrument 1
-ALC1

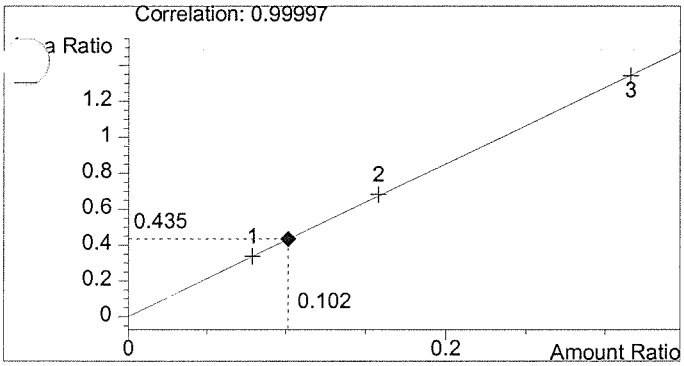
0.08SSOL 02036
GENE SCHWILKE

vial # 38

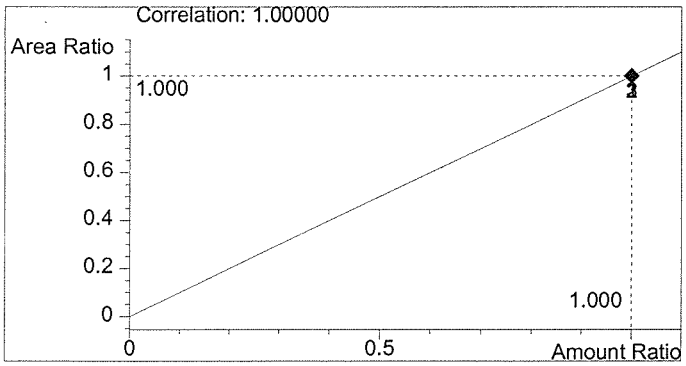


#	Compound	Area	RT
1	Ethanol	1661	1.042
2	n-Propanol	3820	1.702

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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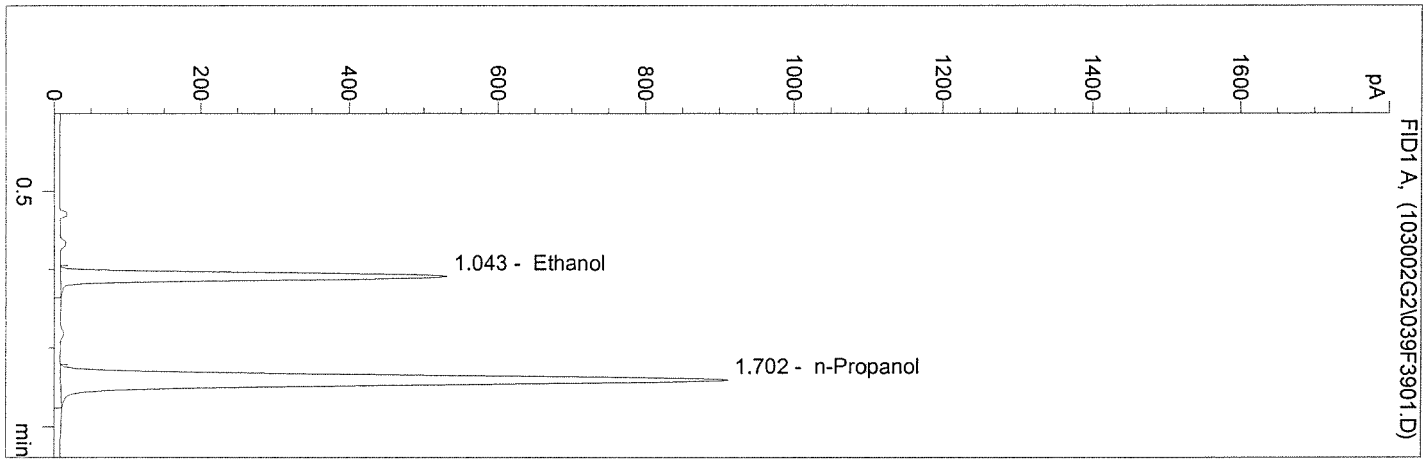
Instrument 1
-ALC1

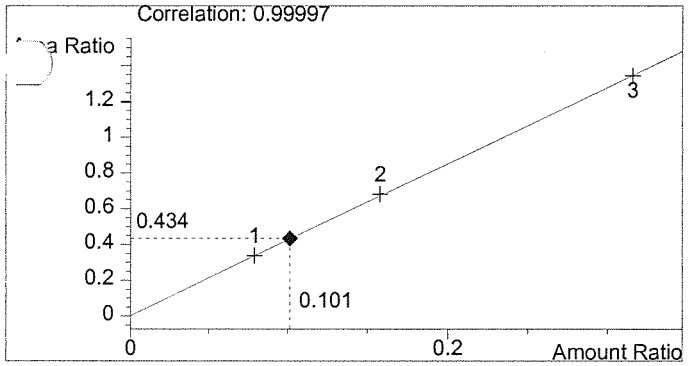
0.08SSOL 02036
GENE SCHWILKE

vial # 39

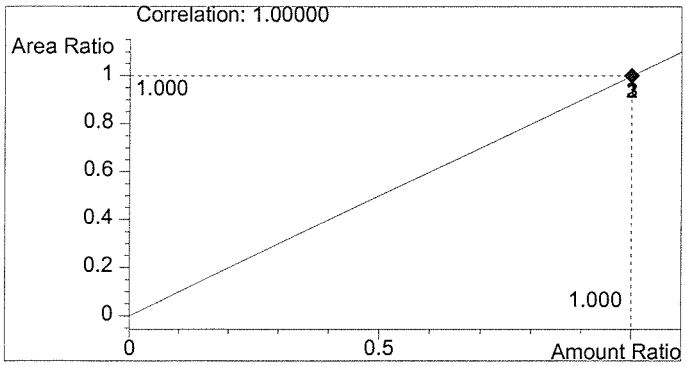


#	Compound	Area	RT
1	Ethanol	1691	1.043
2	n-Propanol	3897	1.702

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

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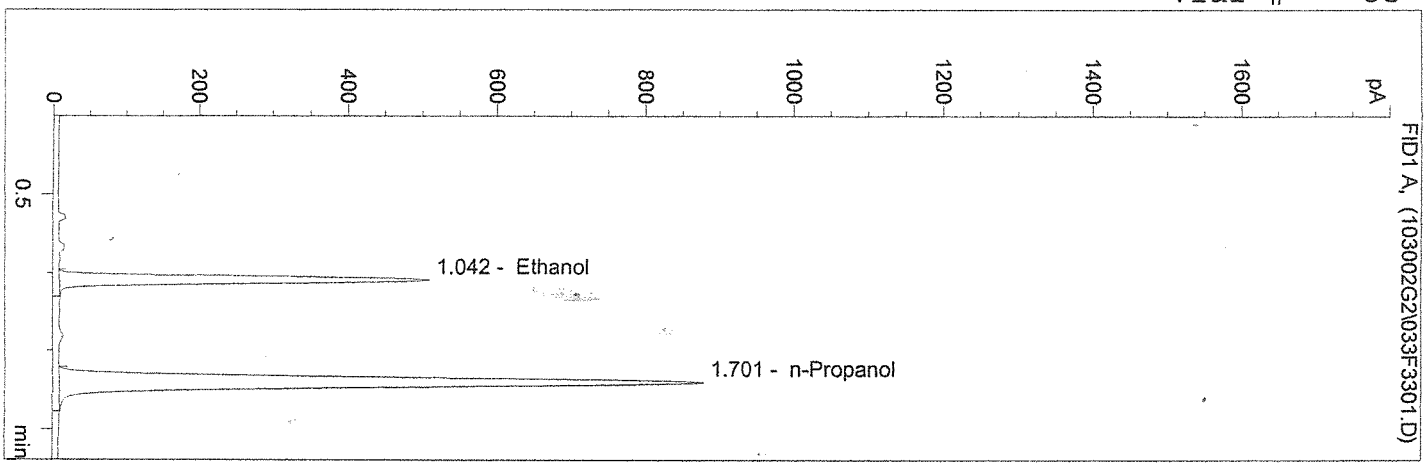
Instrument 1
DB-ALC1

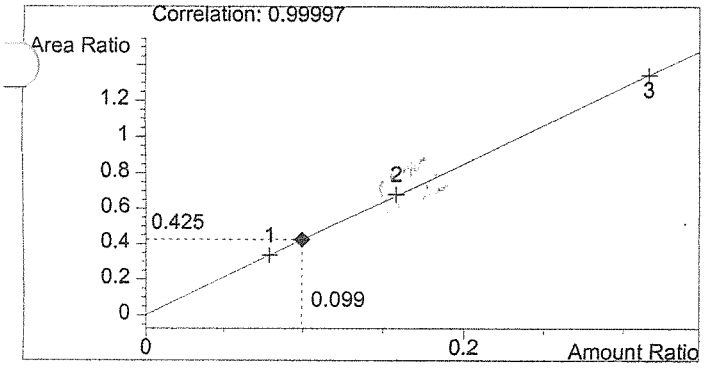
CAP 0.100
GENE SCHWILKE

vial # 33

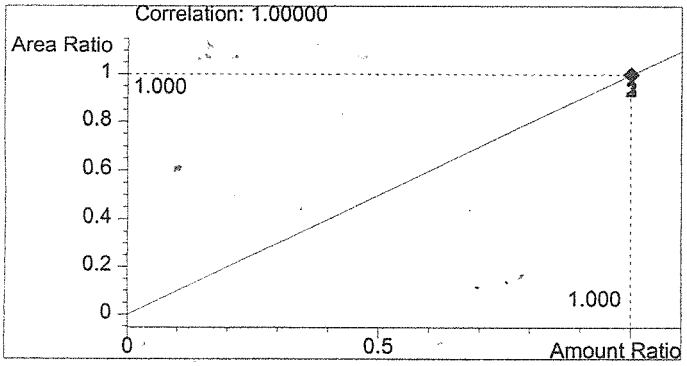


#	Compound	Area	RT
1	Ethanol	1580	1.042
2	n-Propanol	3721	1.701

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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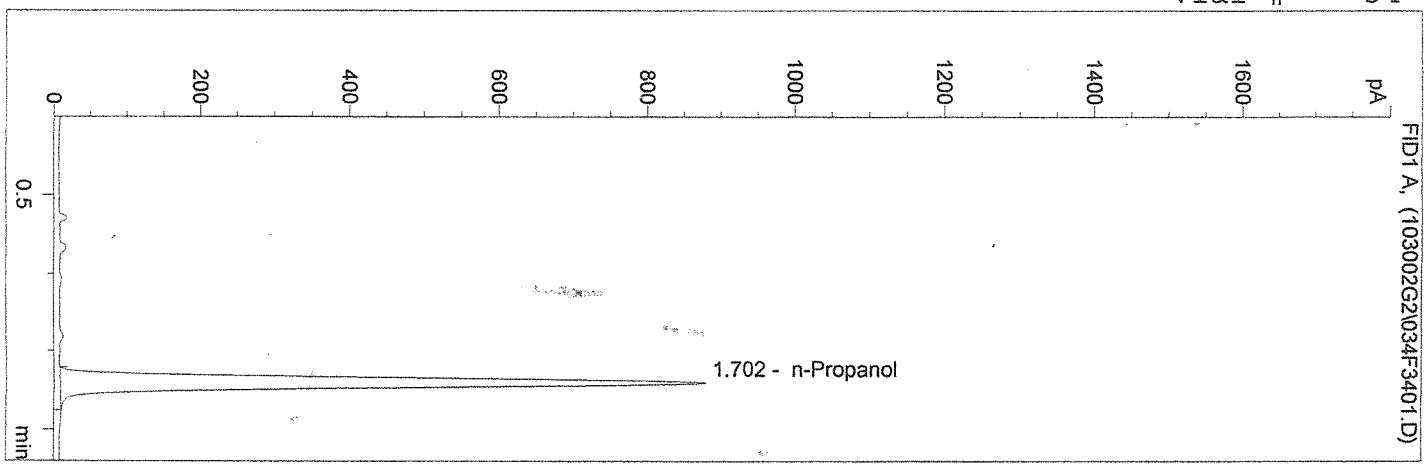
Instrument 1
DB-ALC1

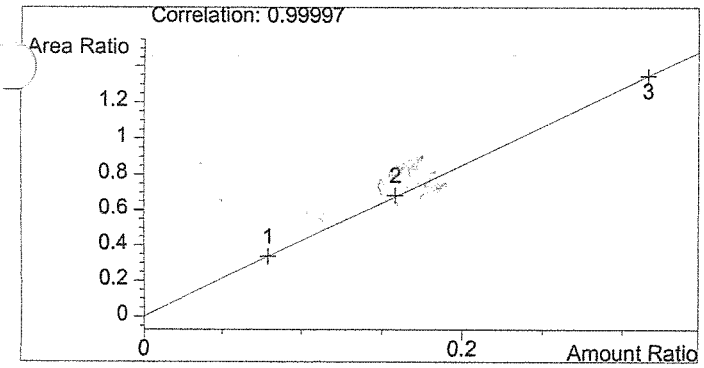
BLANK
GENE SCHWILKE

vial # 34

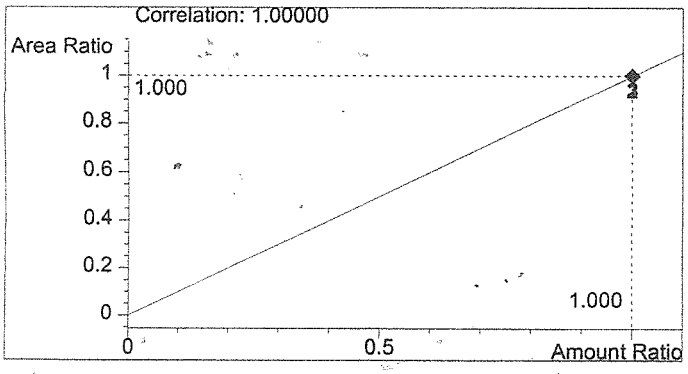


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3745	1.702

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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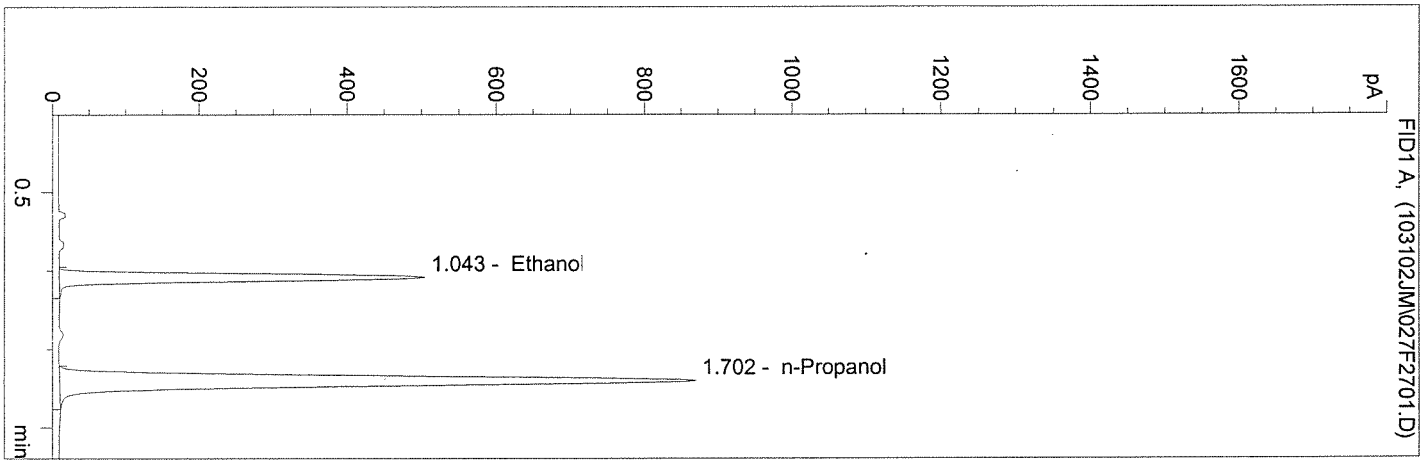
Instrument 1
D-ALC1

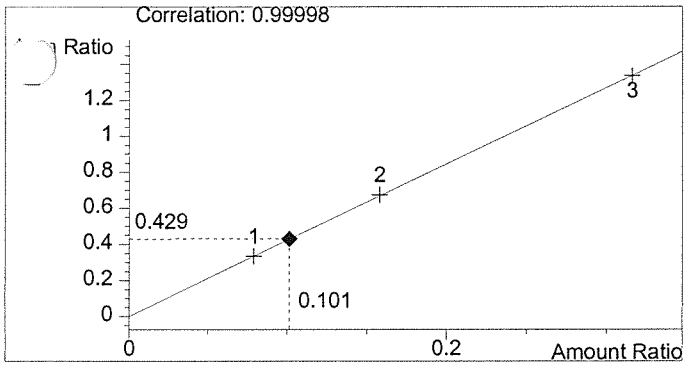
02036 Sim. Sol.
Estuardo J. Miranda

vial # 27

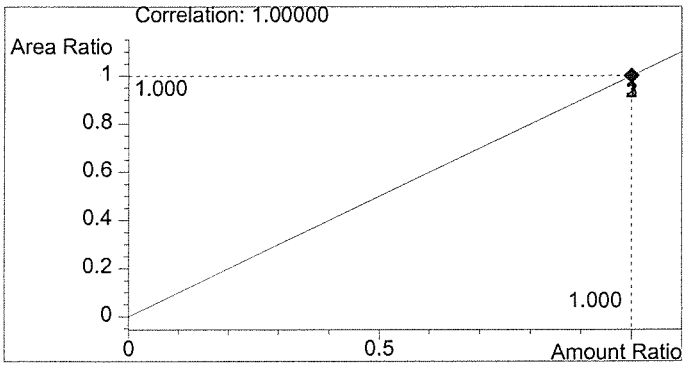


#	Compound	Area	RT
1	Ethanol	1586	1.043
2	n-Propanol	3697	1.702

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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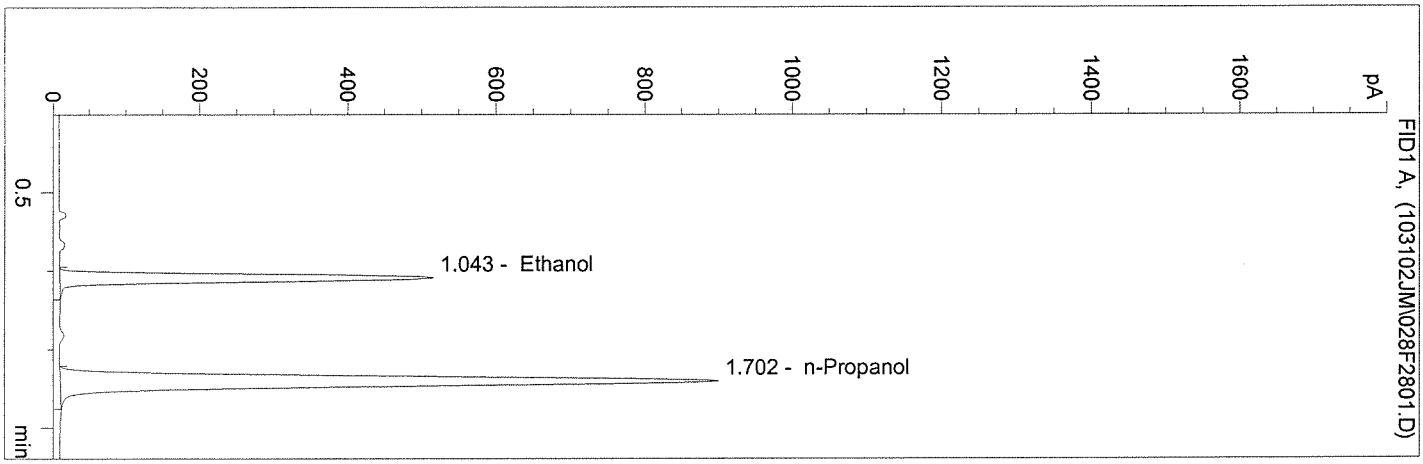
10/31/02 5:11:27 PM
Instrument 1
[illegible]-ALC1

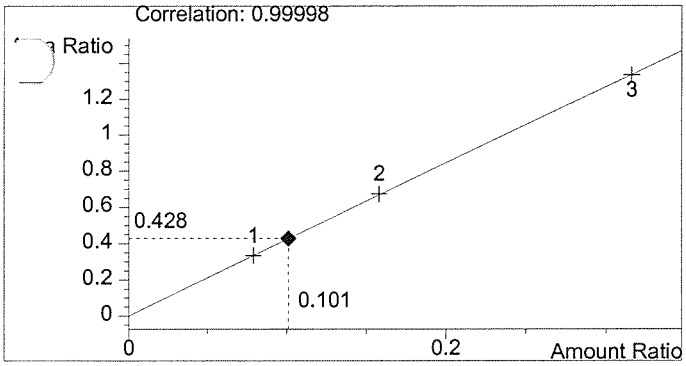
02036 Sim. Sol.
Estuardo J. Miranda

vial # 28

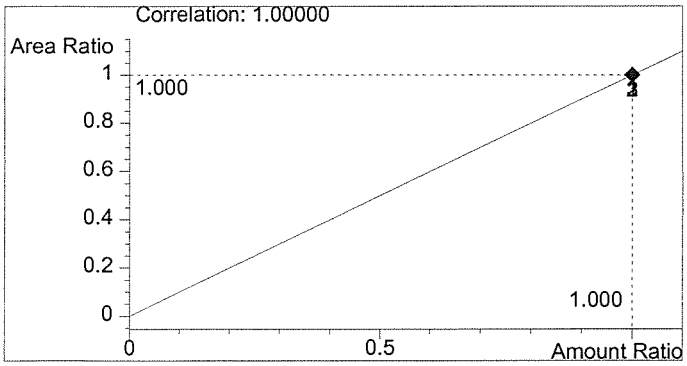


#	Compound	Area	RT
1	Ethanol	1639	1.043
2	n-Propanol	3830	1.702

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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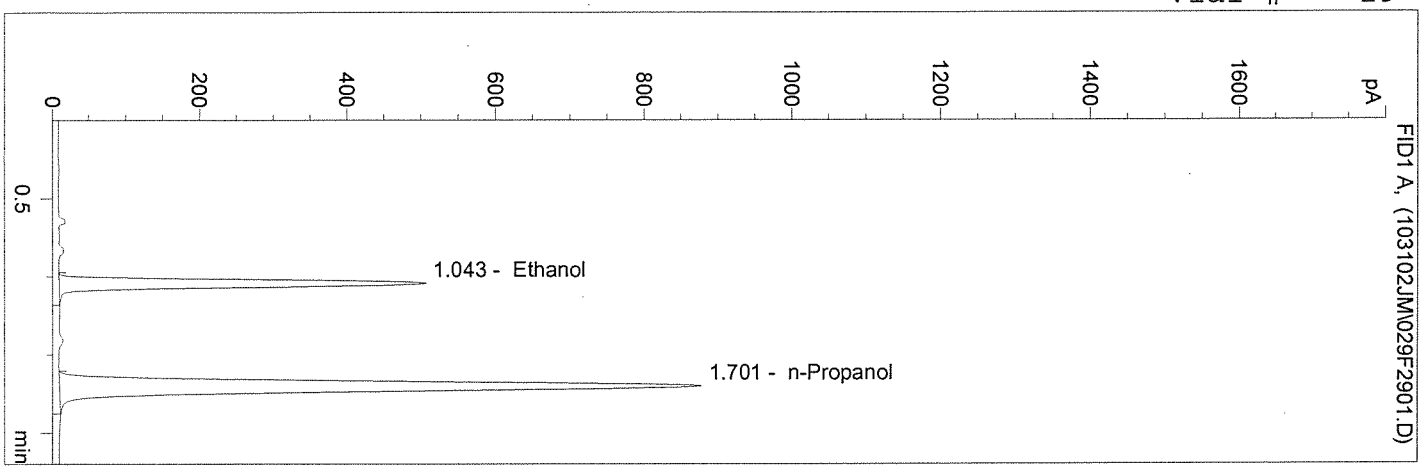
10/31/02 5:14:38 PM
Instrument 1
DB-ALC1

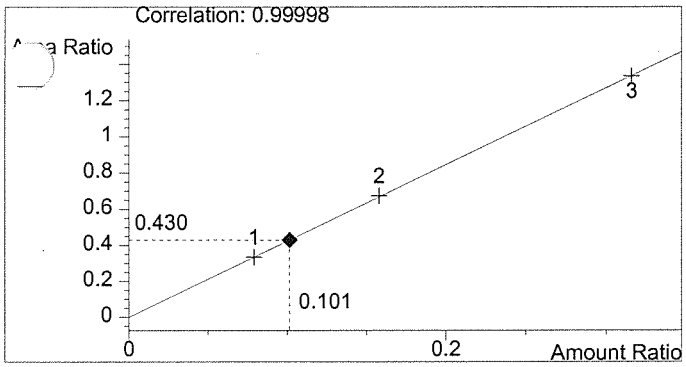
02036 Sim. Sol.
Estuardo J. Miranda

vial # 29

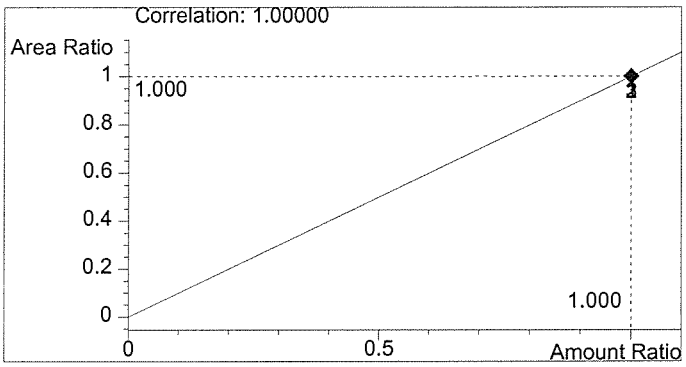


#	Compound	Area	RT
1	Ethanol	1603	1.043
2	n-Propanol	3733	1.701

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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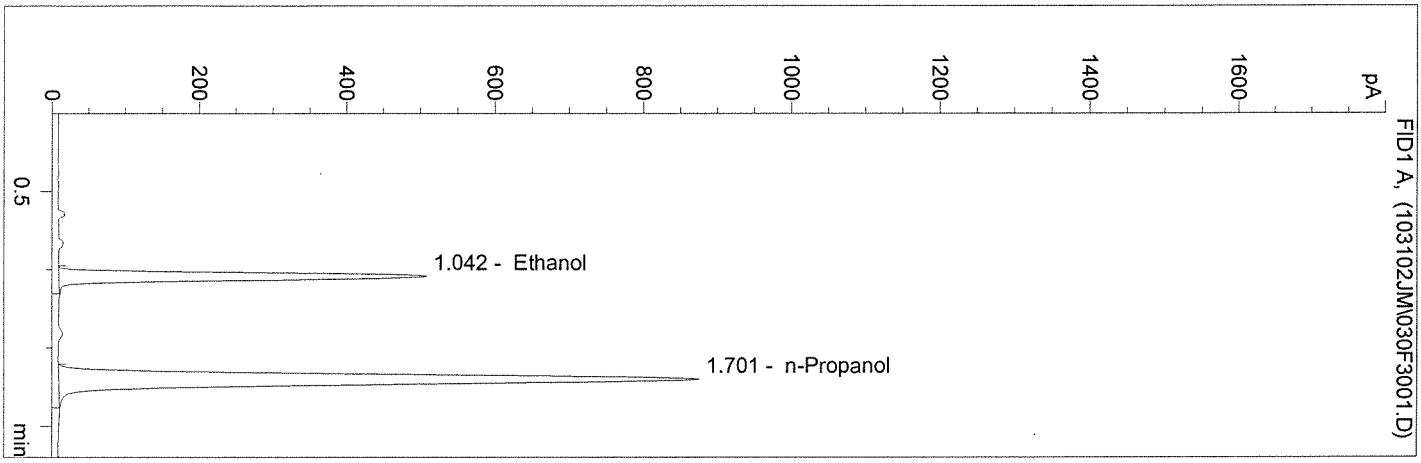
10/31/02 5:17:40 PM
Instrument 1
[illegible]-ALC1

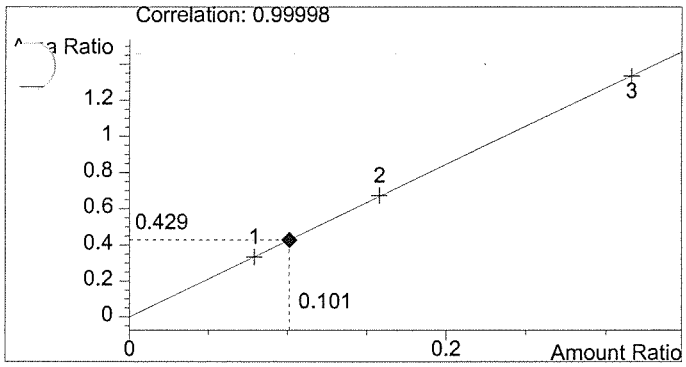
02036 Sim. Sol.
Estuardo J. Miranda

vial # 30

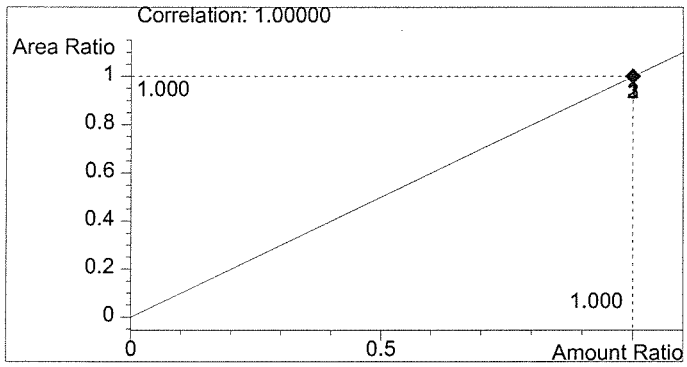


#	Compound	Area	RT
1	Ethanol	1595	1.042
2	n-Propanol	3722	1.701

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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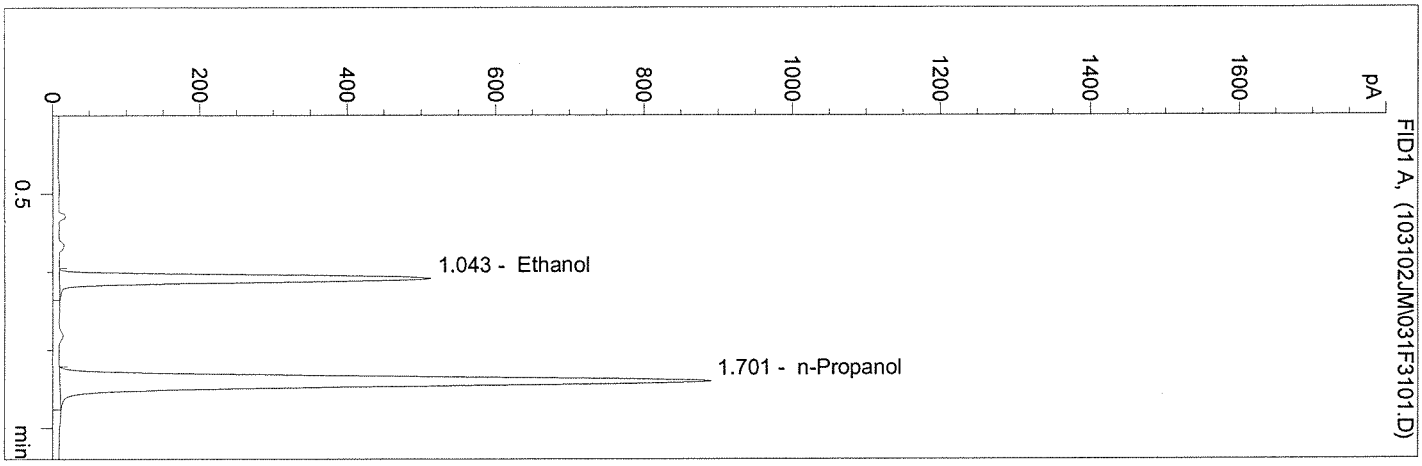
10/31/02 5:20:42 PM
Instrument 1
-ALC1

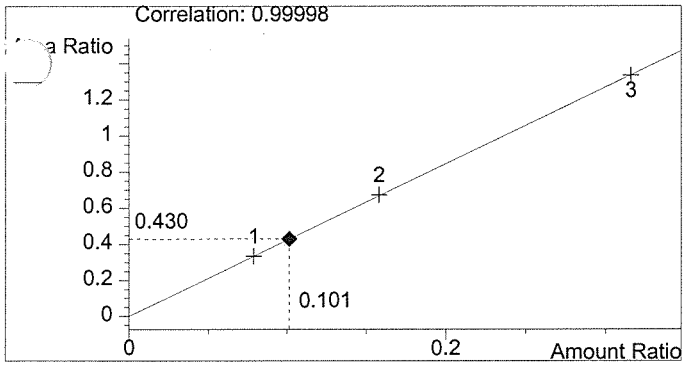
02036 Sim. Sol.
Estuardo J. Miranda

vial # 31

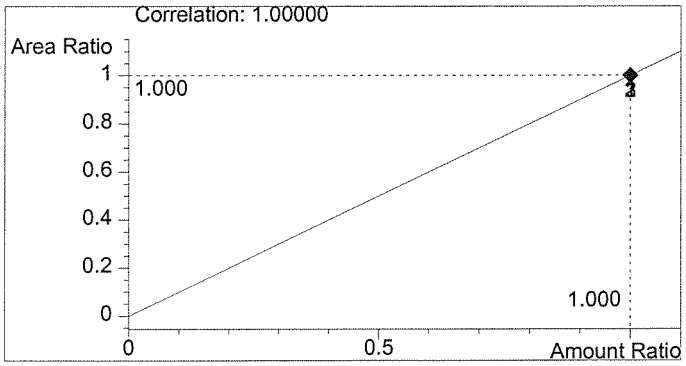


#	Compound	Area	RT
1	Ethanol	1633	1.043
2	n-Propanol	3799	1.701

Totals:



Ethanol 0.101 g/100ml



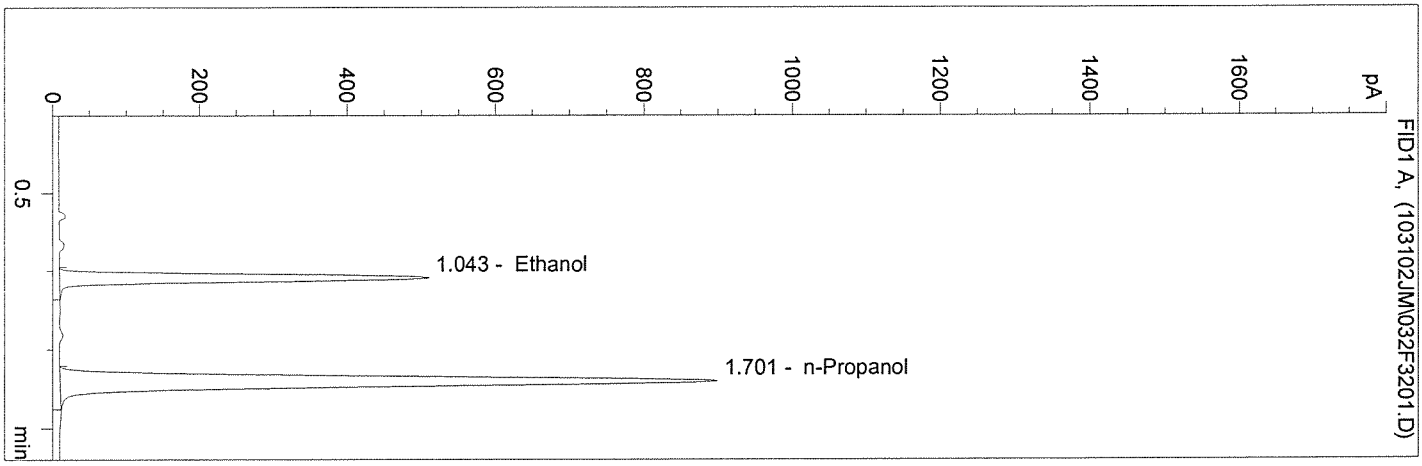
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
10/31/02 5:23:45 PM
Instrument 1
-ALC1

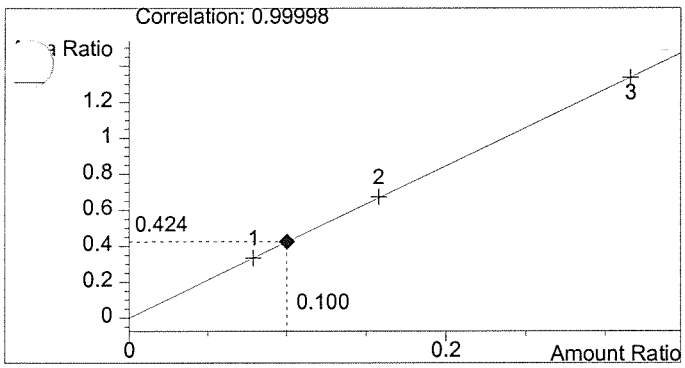
0.100 Control
Estuardo J. Miranda

vial # 32

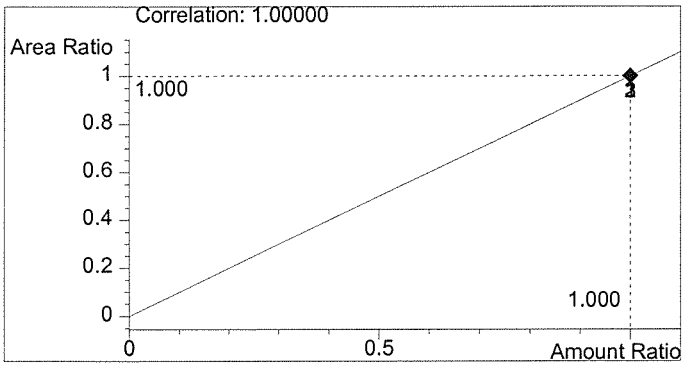


#	Compound	Area	RT
1	Ethanol	1627	1.043
2	n-Propanol	3837	1.701

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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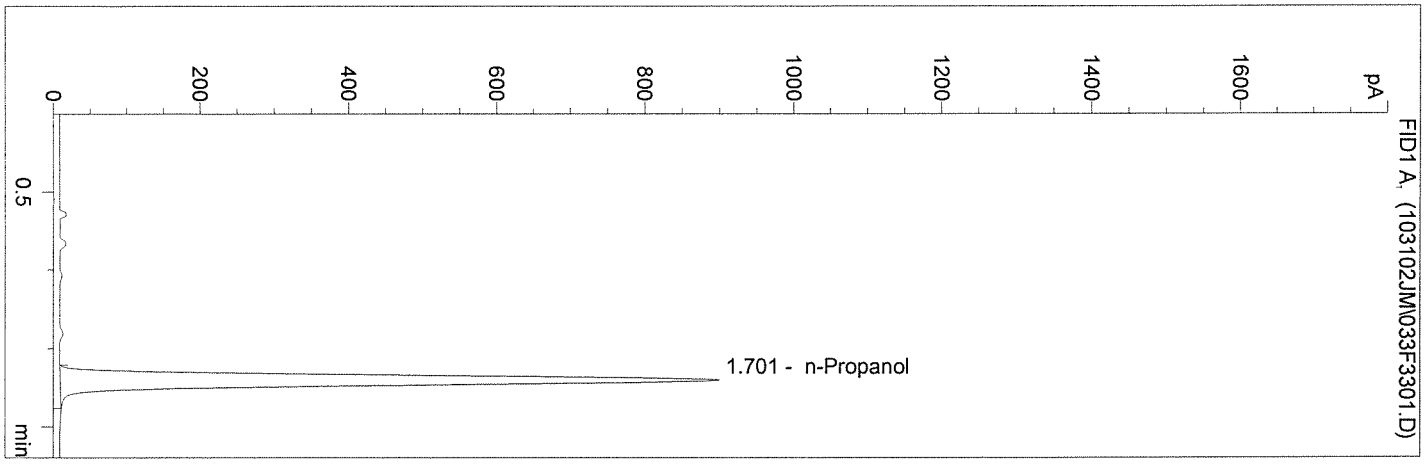
10/31/02 5:26:55 PM
Instrument 1
-ALC1

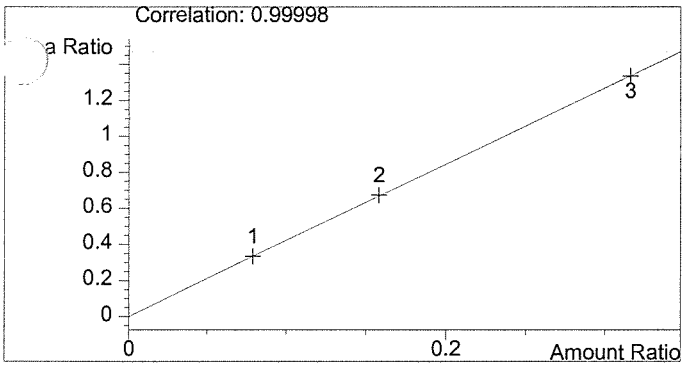
Blank
Estuardo J. Miranda

vial # 33

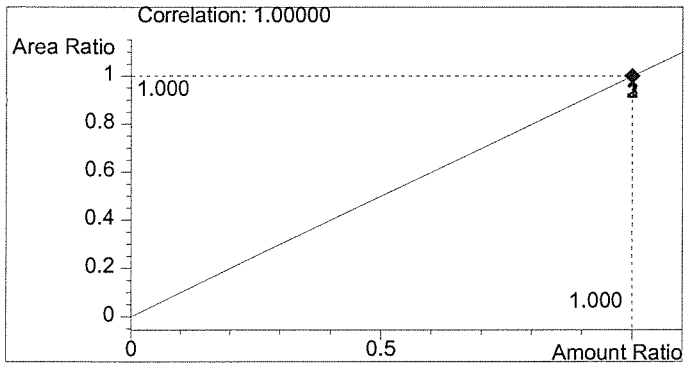


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3815	1.701

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

Calibration Table

ETOH CALIBRATION

Calib. Data Modified : Wednesday, November 13, 2002 8:37:09 AM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 0.200 %
Abs. Reference Window : 0.050 min
Rel. Non-ref. Window : 0.200 %
Abs. Non-ref. Window : 0.050 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Included
Weight : Equal

Recalibration Settings:
Average Response : Floating Average New 99%
Average Retention Time: Floating Average New 99%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [g/100ml]	Name
1	1.00000	n-PROPANOL

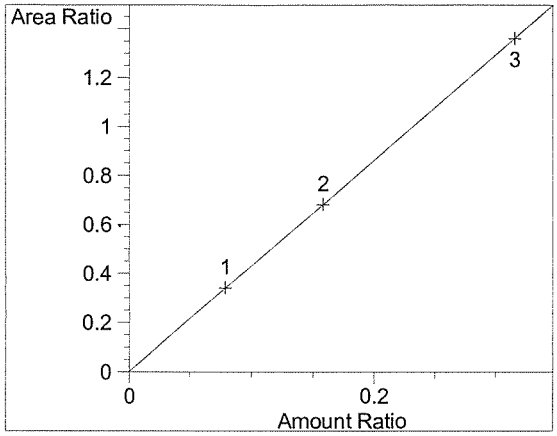
Signal 1: FID1 A,

RetTime [min]	Lvl Sig		Amount [g/100ml]	Area	Amt/Area	Ref	Grp	Name
1.092	1	1	7.90000e-2	1020.71576	7.73967e-5	1		ETHANOL
		2	1.58000e-1	2000.47009	7.89814e-5			
		3	3.16000e-1	4072.03223	7.76025e-5			
1.754	1	1	1.00000	2985.77710	3.34921e-4	I1		n-PROPANOL
		2	1.00000	2929.65308	3.41337e-4			
		3	1.00000	2991.02197	3.34334e-4			

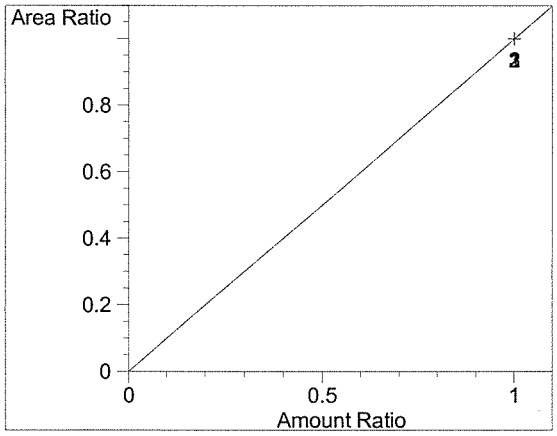
Peak Sum Table

No Entries in table

Calibration Curves



ETHANOL at exp. RT: 1.092
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00131
Formula: y = mx + b
m: 4.30742
b: 1.02709e-3
x: Amount Ratio
y: Area Ratio



n-PROPANOL at exp. RT: 1.754
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

WASHINGTON STATE TOXICOLOGY LABORATORY

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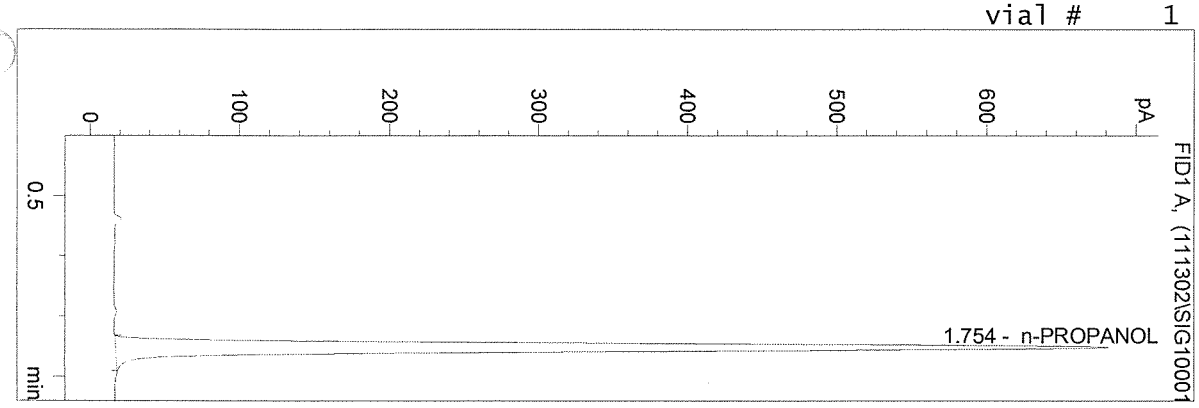
11/13/02 8:24:47 AM
Instrument 3
DB-ALC1

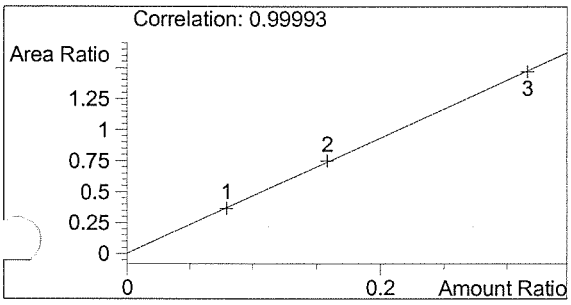
BLANK
Ann Marie Gordon

vial # 1

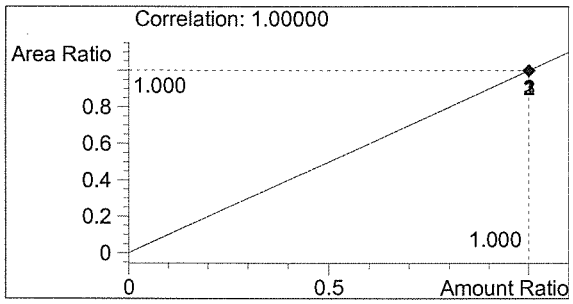


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3010	1.754

Totals:



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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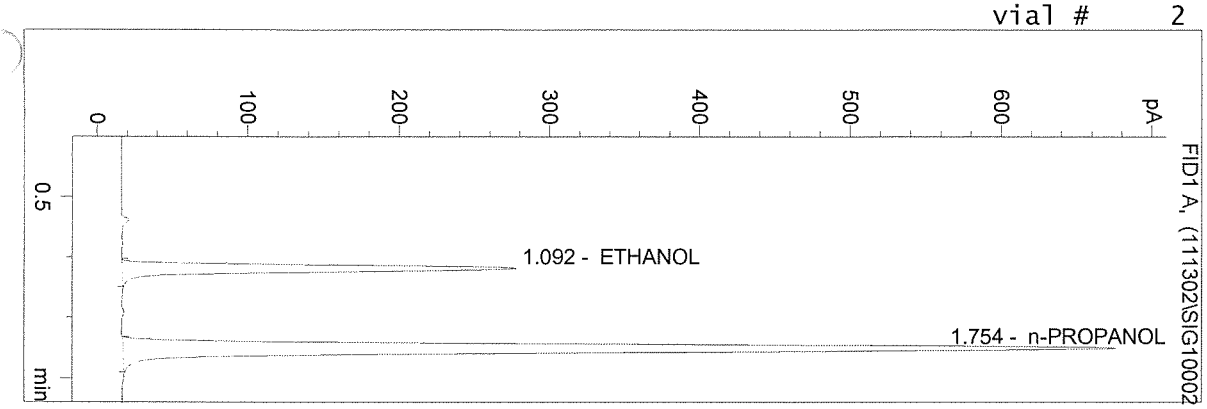
11/13/02 8:28:10 AM
Instrument 3
DB-ALC1

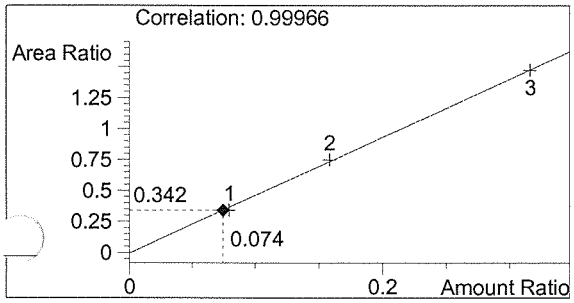
0.079 CALIBRATOR
Ann Marie Gordon

vial # 2

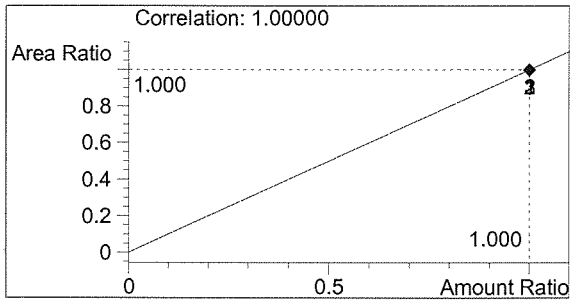


#	Compound	Area	RT
1	ETHANOL	1021	1.092
2	n-PROPANOL	2986	1.754

Totals:



ETHANOL 0.074 g/100mL



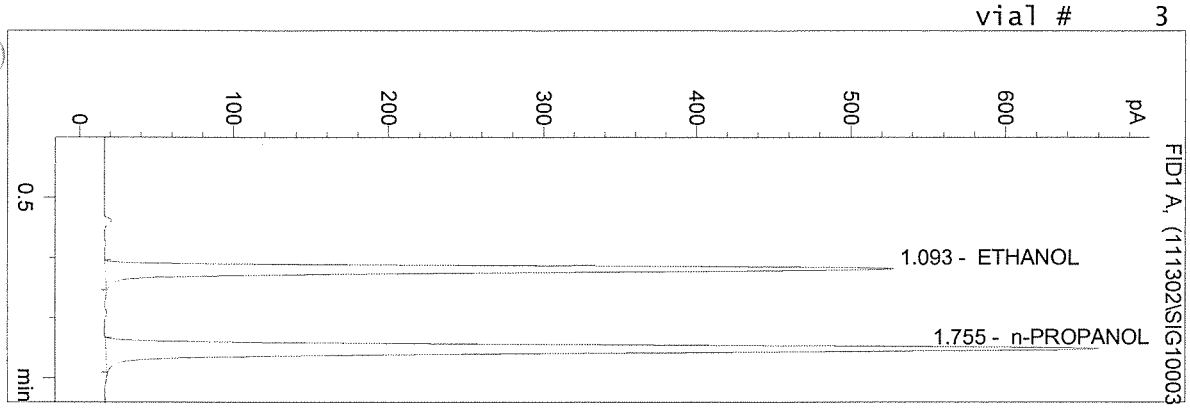
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 8:31:33 AM
Instrument 3
DB-ALC1

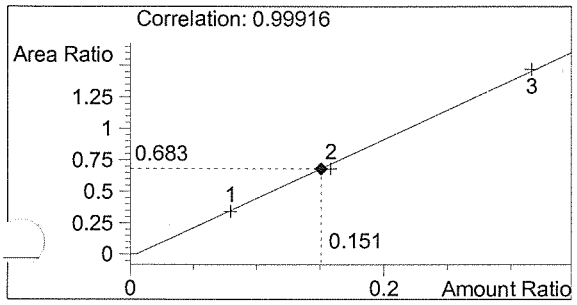
0.158 CALIBRATOR
Ann Marie Gordon

vial # 3

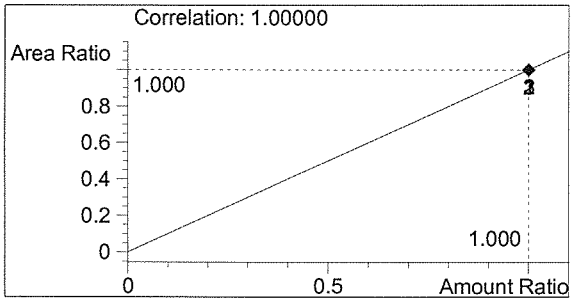


#	Compound	Area	RT
1	ETHANOL	2000	1.093
2	n-PROPANOL	2930	1.755

Totals:



ETHANOL 0.151 g/100mL



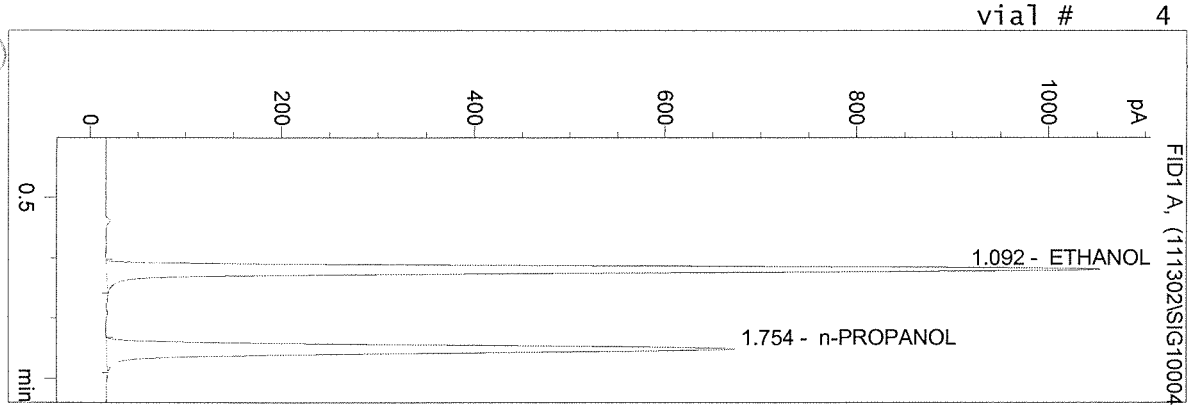
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 8:34:56 AM
Instrument 3
DB-ALC1

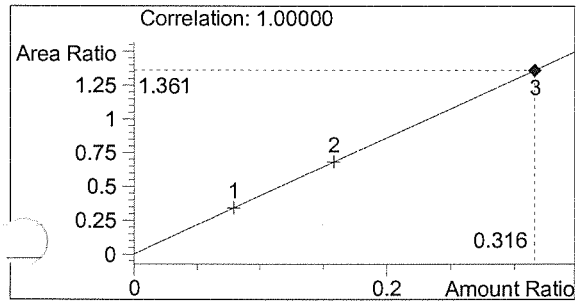
0.316 CALIBRATOR
Ann Marie Gordon

vial # 4

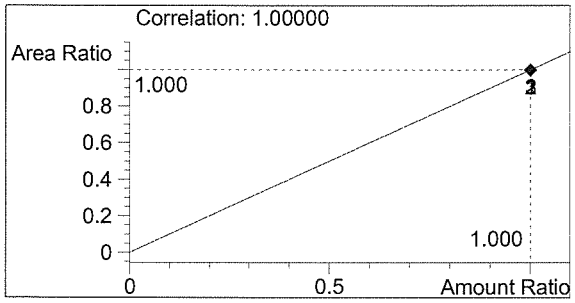


#	Compound	Area	RT
1	ETHANOL	4072	1.092
2	n-PROPANOL	2991	1.754

Totals:



ETHANOL 0.316 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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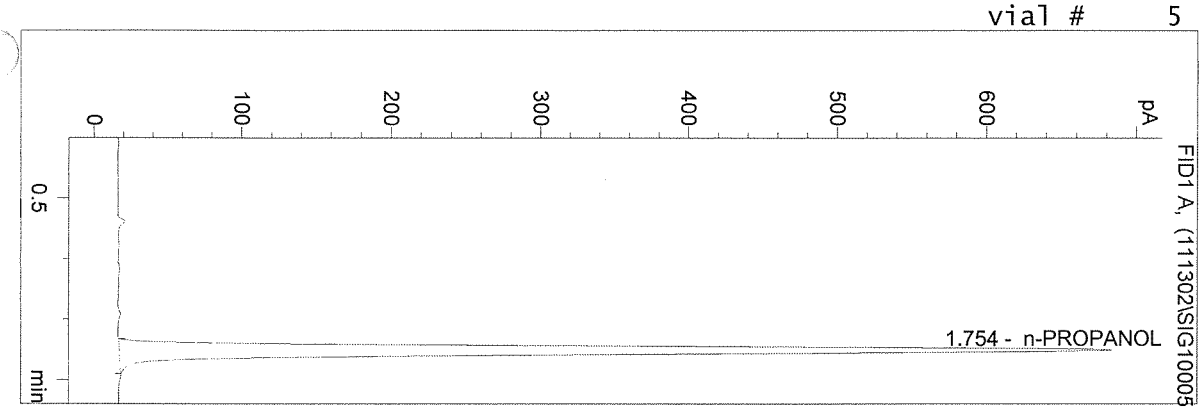
11/13/02 8:38:20 AM
Instrument 3
DB-ALC1

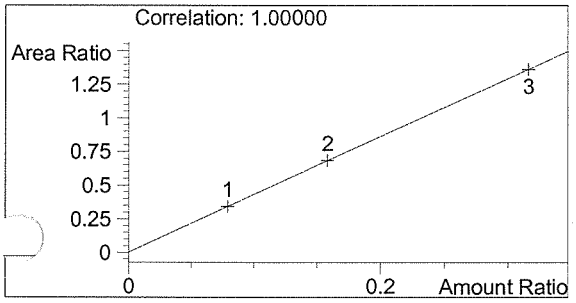
Blank
Ann Marie Gordon

vial # 5

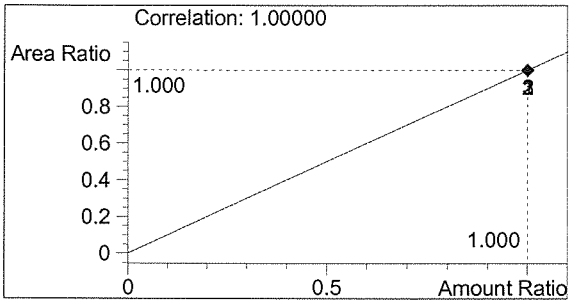


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3032	1.754

Totals:



ETHANOL 0.000 g/100mL



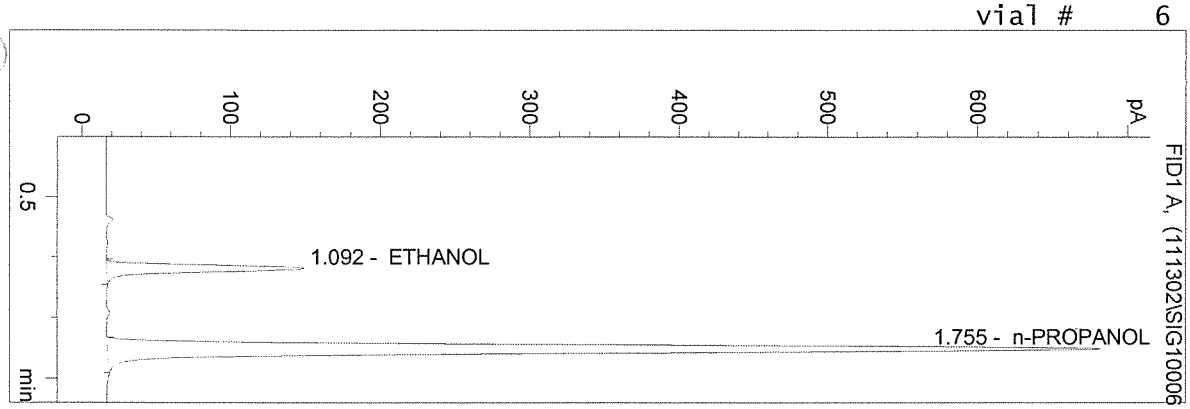
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 8:41:43 AM
Instrument 3
DB-ALC1

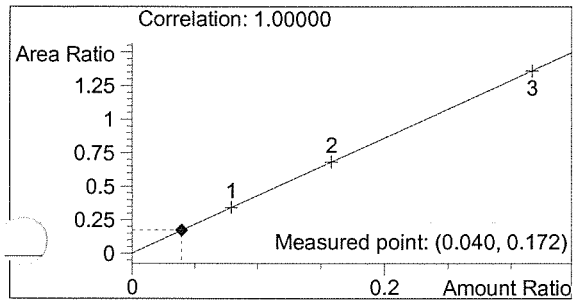
0.04 Control
Ann Marie Gordon

vial # 6

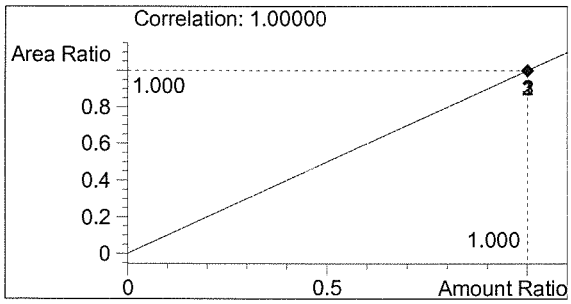


#	Compound	Area	RT
1	ETHANOL	516	1.092
2	n-PROPANOL	3005	1.755

Totals:



ETHANOL 0.040 g/100mL



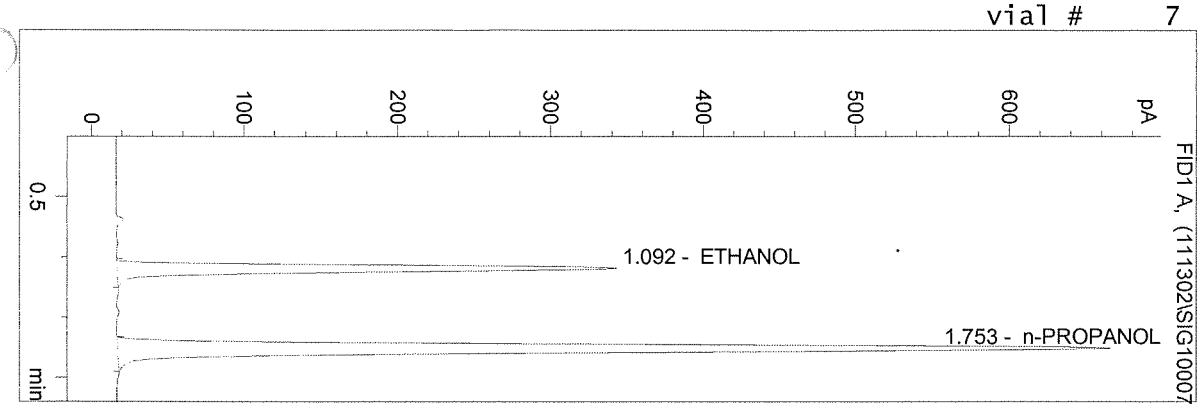
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 8:45:06 AM
Instrument 3
DB-ALC1

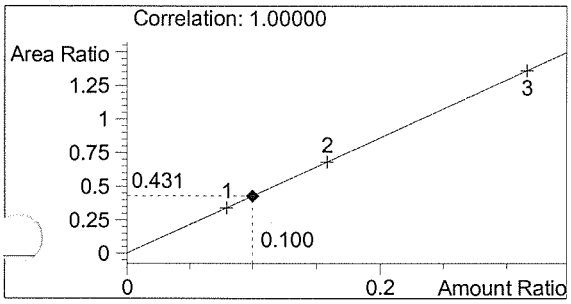
0.10 Controil
Ann Marie Gordon

vial # 7

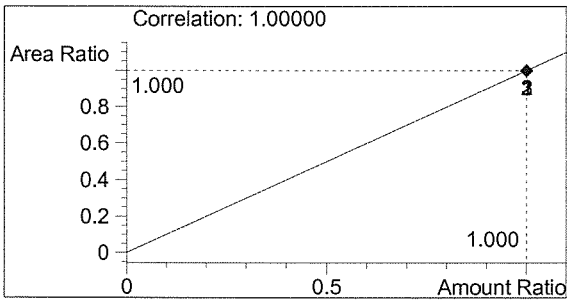


#	Compound	Area	RT
1	ETHANOL	1272	1.092
2	n-PROPANOL	2949	1.753

Totals:



ETHANOL 0.100 g/100mL



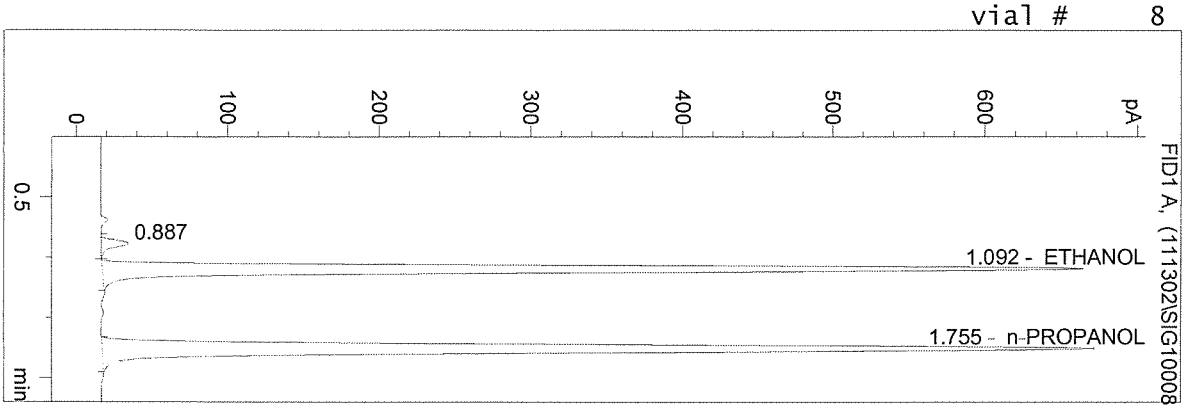
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 8:48:30 AM
Instrument 3
DB-ALC1

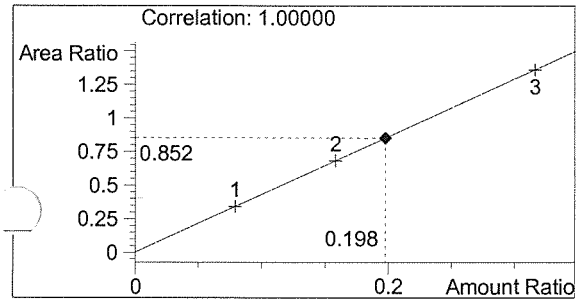
0.20 Control
Ann Marie Gordon

vial # 8

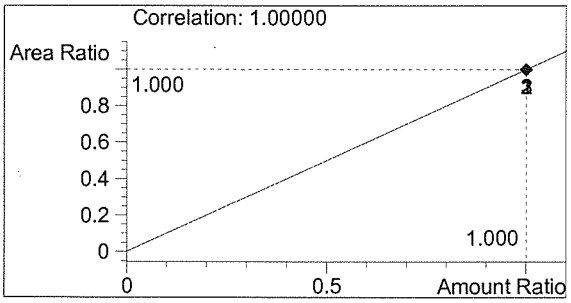


#	Compound	Area	RT
1		72	0.887
2	ETHANOL	2514	1.092
3	n-PROPANOL	2952	1.755

Totals:



ETHANOL 0.198 g/100mL



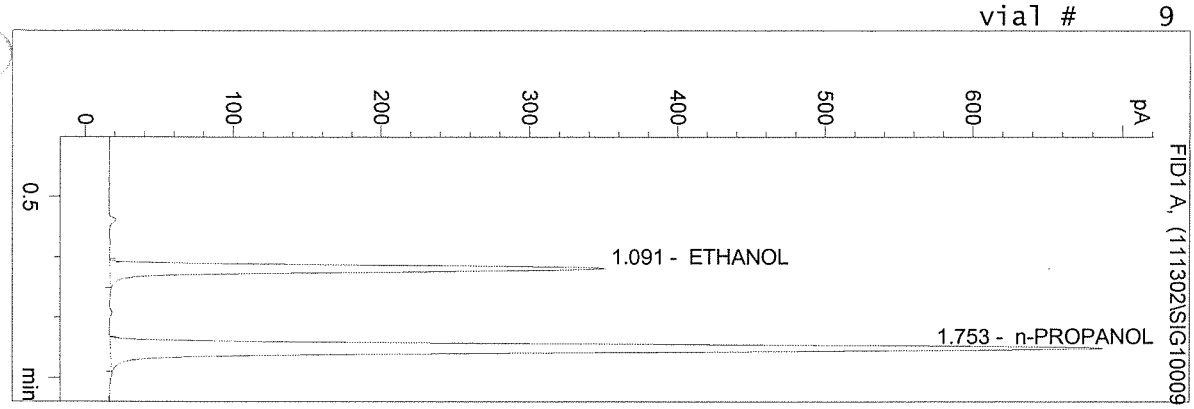
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 8:51:53 AM
Instrument 3
DB-ALC1

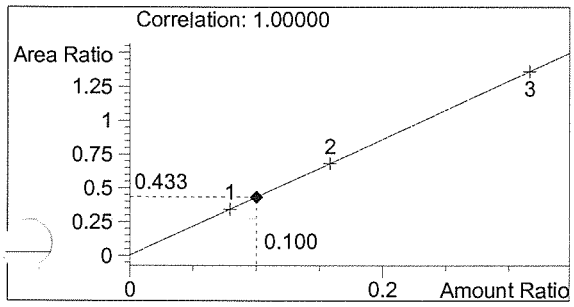
02036 -1SIM
Ann Marie Gordon

vial # 9

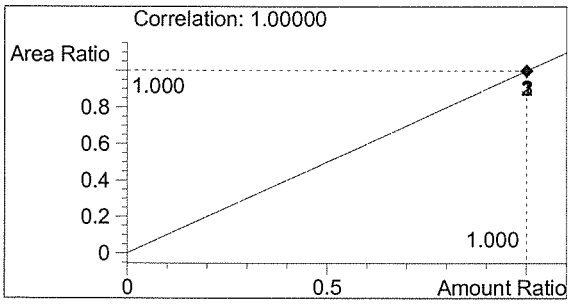


#	Compound	Area	RT
1	ETHANOL	1322	1.091
2	n-PROPANOL	3055	1.753

Totals:



ETHANOL 0.100 g/100mL



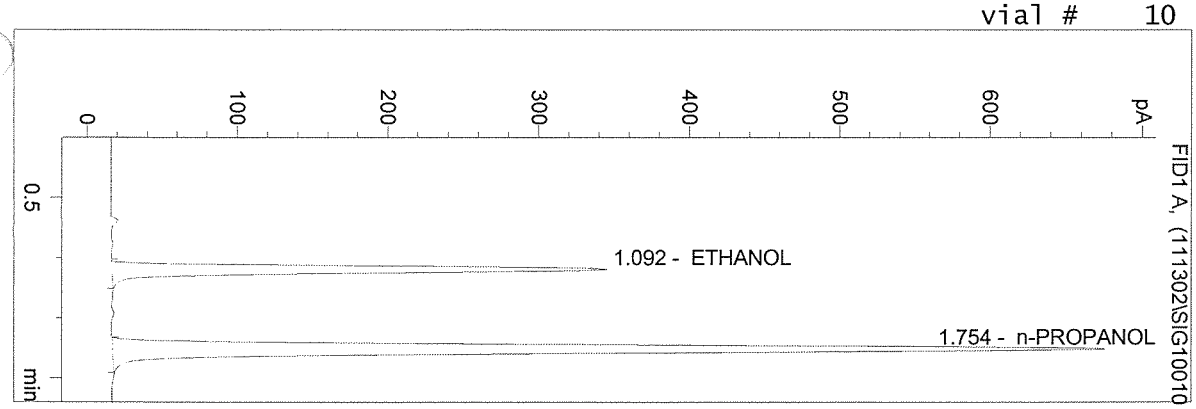
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 8:55:16 AM
Instrument 3
DB-ALC1

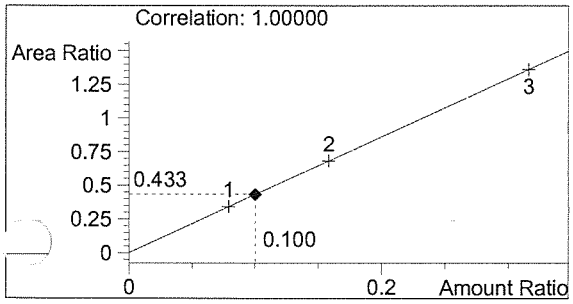
02036-2 SIM
Ann Marie Gordon

vial # 10

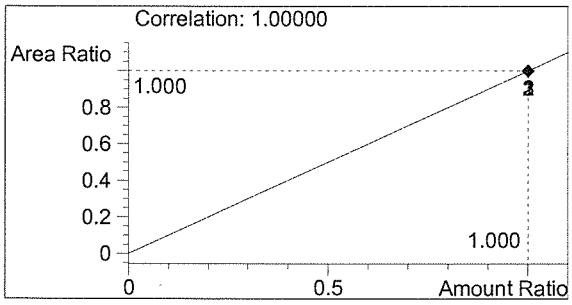


#	Compound	Area	RT
1	ETHANOL	1305	1.092
2	n-PROPANOL	3017	1.754

Totals:



ETHANOL 0.100 g/100mL



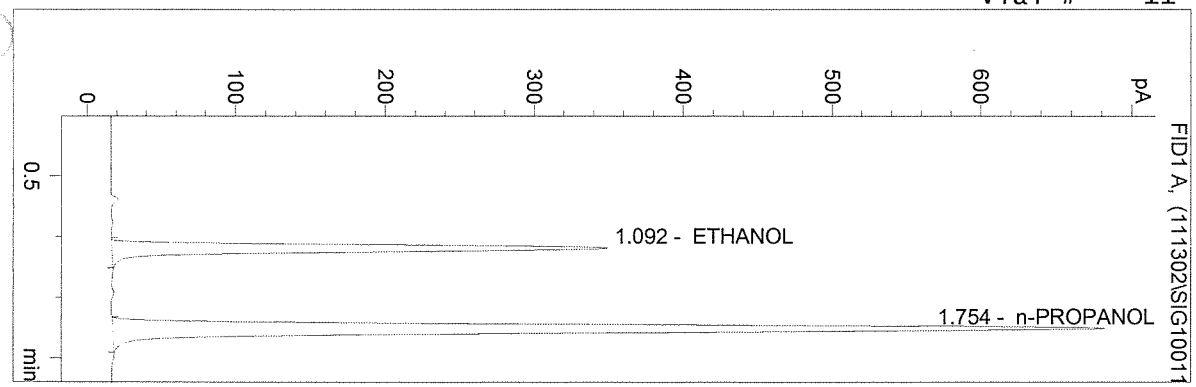
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 8:58:39 AM
Instrument 3
DB-ALC1

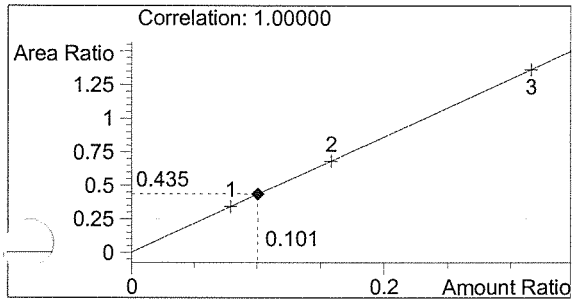
02036-3 SIM
Ann Marie Gordon

vial # 11

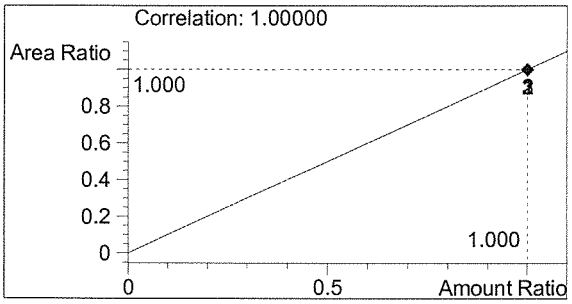


#	Compound	Area	RT
1	ETHANOL	1316	1.092
2	n-PROPANOL	3028	1.754

Totals:



ETHANOL 0.101 g/100mL



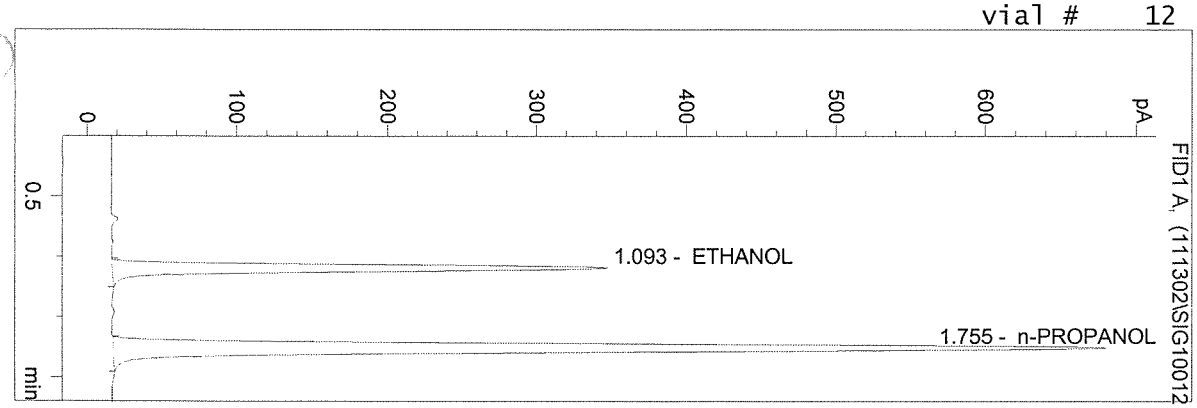
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 9:02:03 AM
Instrument 3
DB-ALC1

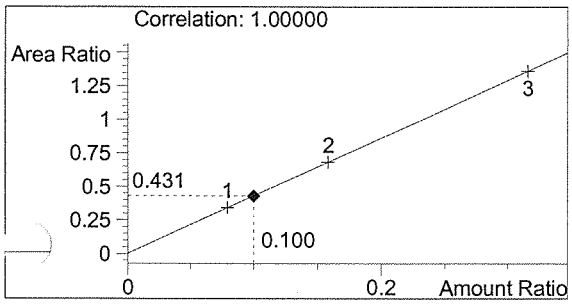
02036-4 SIM
Ann Marie Gordon

vial # 12

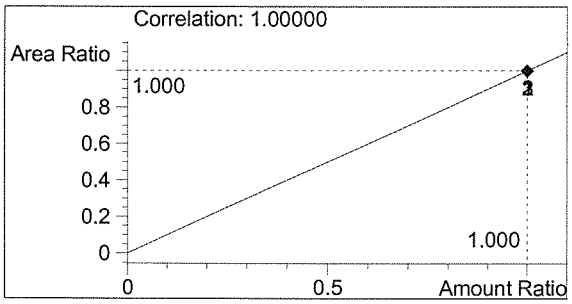


#	Compound	Area	RT
1	ETHANOL	1297	1.093
2	n-PROPANOL	3007	1.755

Totals:



ETHANOL 0.100 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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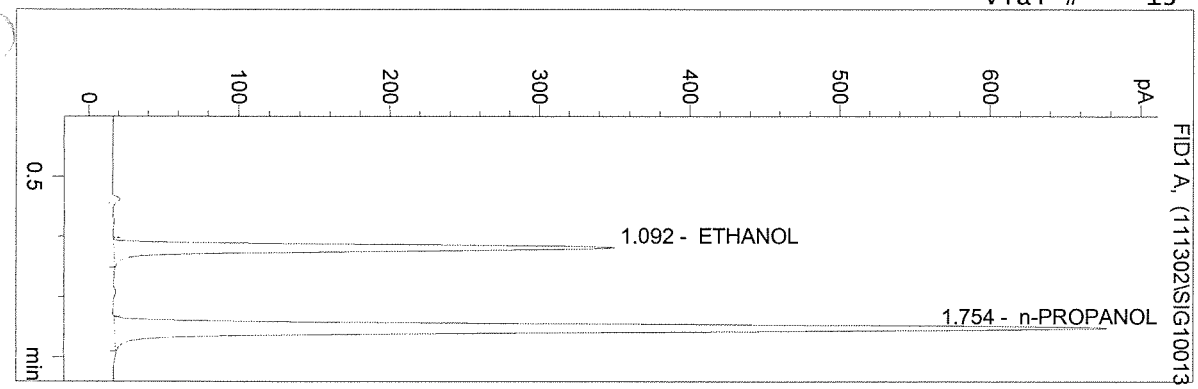
11/13/02 9:05:26 AM
Instrument 3
DB-ALC1

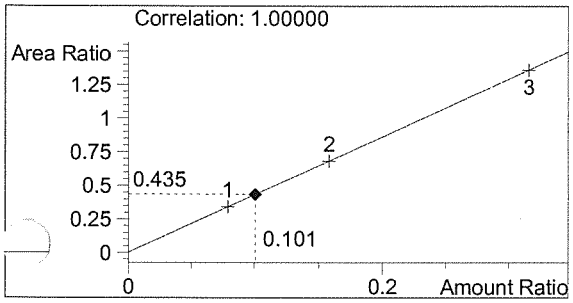
02036-5 SIM
Ann Marie Gordon

vial # 13

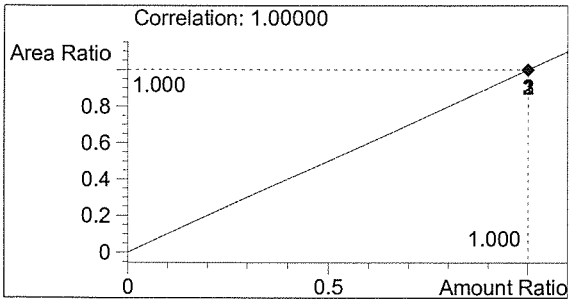


#	Compound	Area	RT
1	ETHANOL	1299	1.092
2	n-PROPANOL	2985	1.754

Totals:



ETHANOL 0.101 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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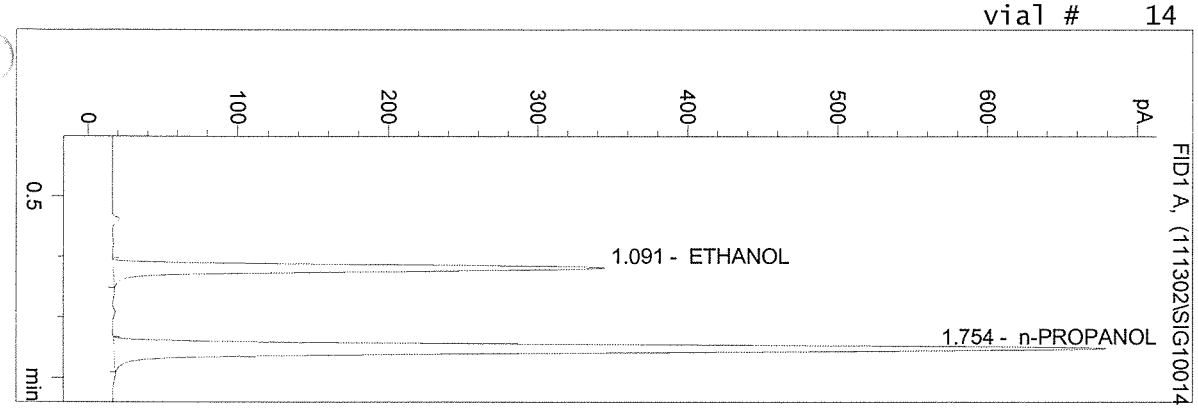
11/13/02 9:08:49 AM
Instrument 3
DB-ALC1

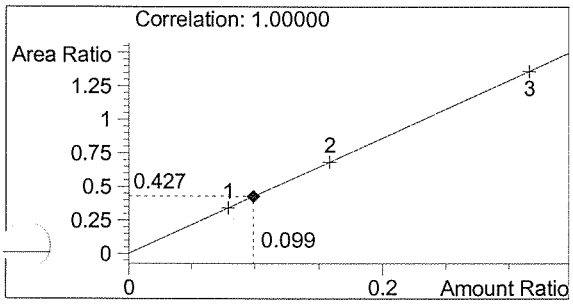
0.10 Control
Ann Marie Gordon

vial # 14

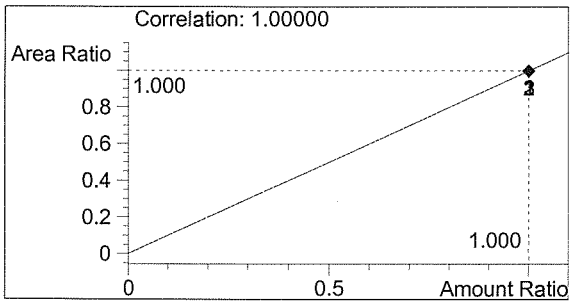


#	Compound	Area	RT
1	ETHANOL	1283	1.091
2	n-PROPANOL	3005	1.754

Totals:



ETHANOL 0.099 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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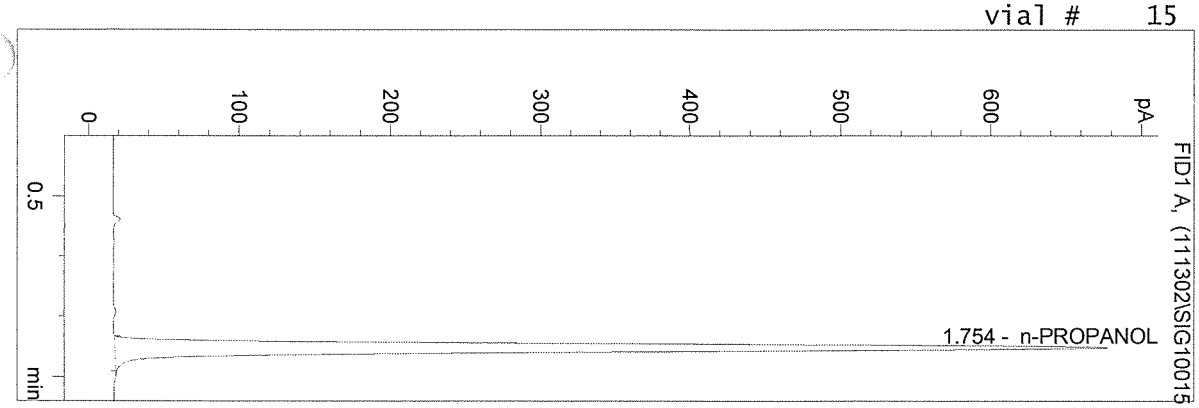
11/13/02 9:12:12 AM
Instrument 3
DB-ALC1

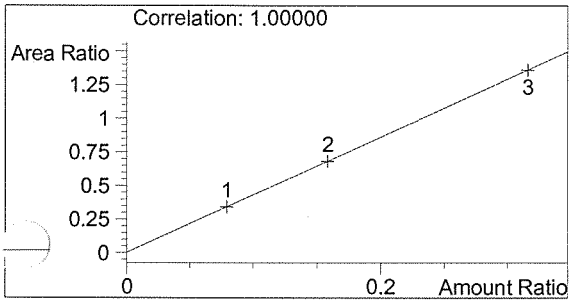
Blank
Ann Marie Gordon

vial # 15

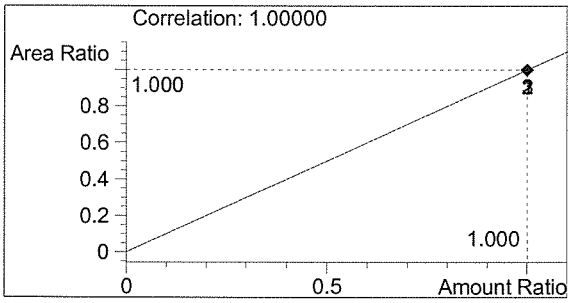


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3011	1.754

Totals:



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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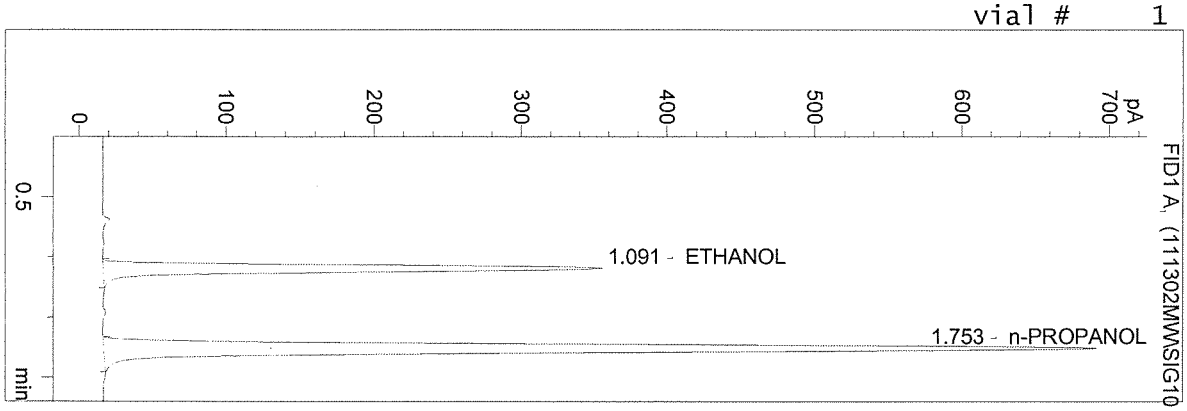
11/13/02 1:16:23 PM
Instrument 3
DB-ALC1

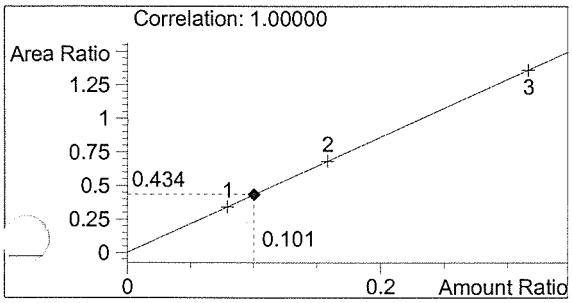
02036
Mary Wilson

vial # 1

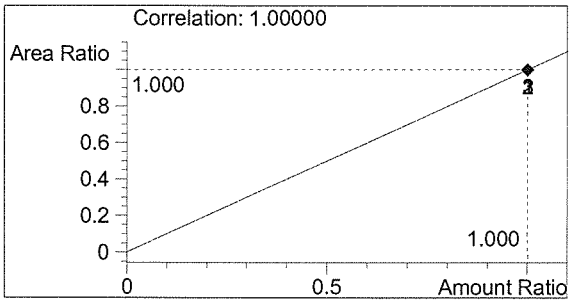


#	Compound	Area	RT
1	ETHANOL	1332	1.091
2	n-PROPANOL	3067	1.753

Totals:



ETHANOL 0.101 g/100mL



n-PROPANOL 1.000 g/100mL

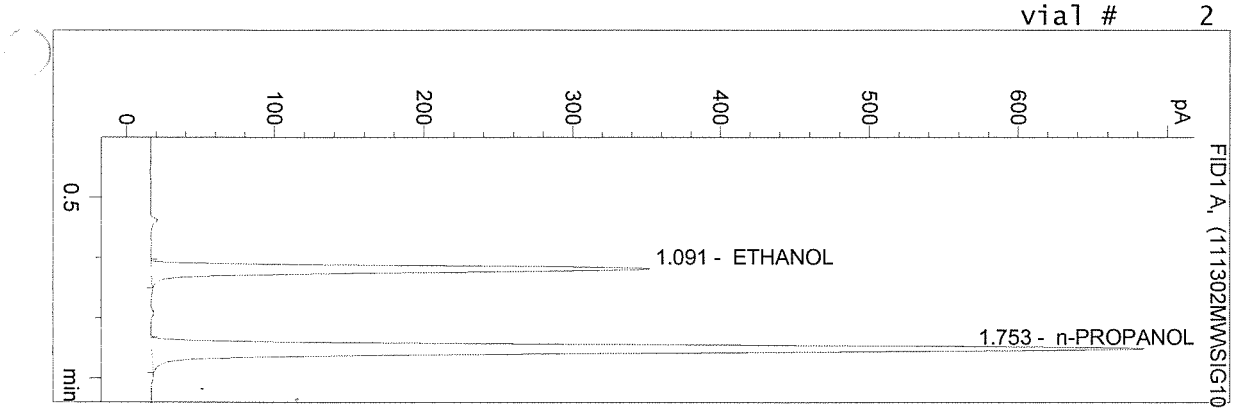
Calibration with Ann Marie's 11/13/02 02036 run

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 1:19:46 PM
Instrument 3
DB-ALC1

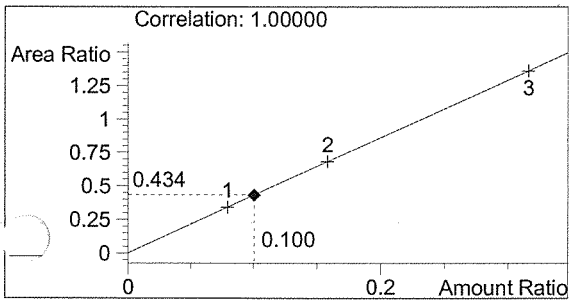
02036
Mary Wilson

vial # 2

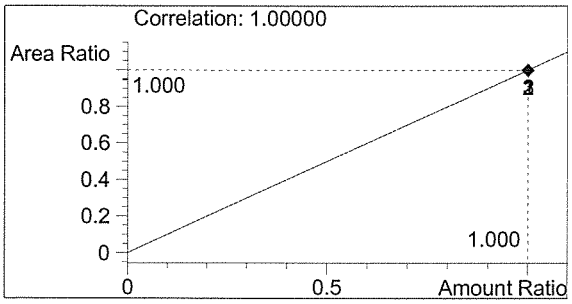


#	Compound	Area	RT
1	ETHANOL	1324	1.091
2	n-PROPANOL	3053	1.753

Totals:



ETHANOL 0.100 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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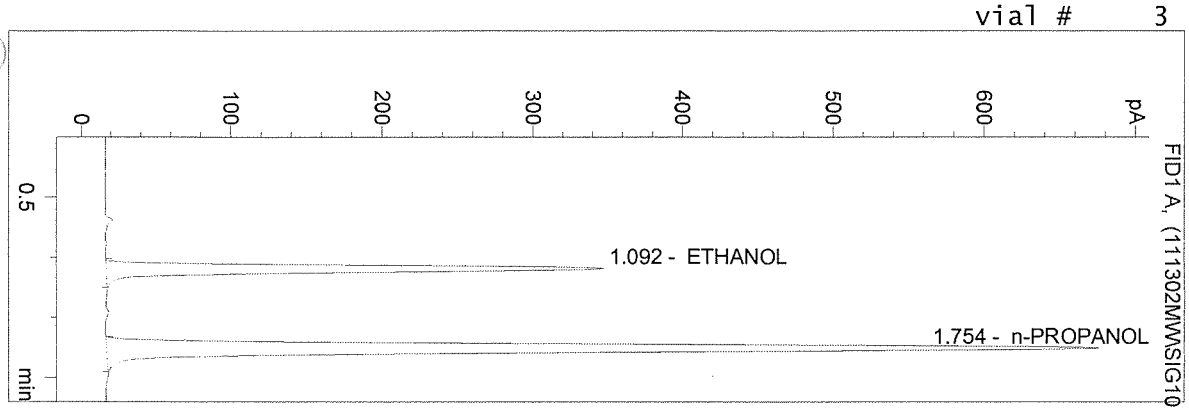
11/13/02 1:23:09 PM
Instrument 3
DB-ALC1

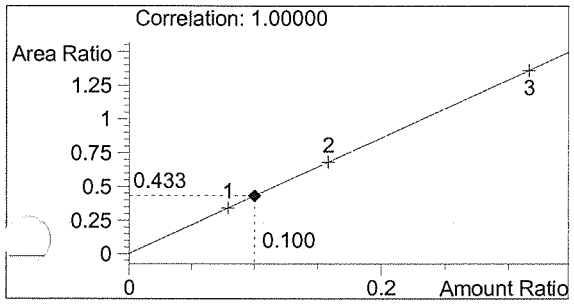
02036
Mary Wilson

vial # 3

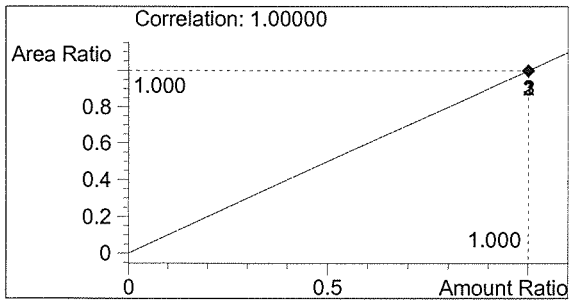


#	Compound	Area	RT
1	ETHANOL	1300	1.092
2	n-PROPANOL	3004	1.754

Totals:



ETHANOL 0.100 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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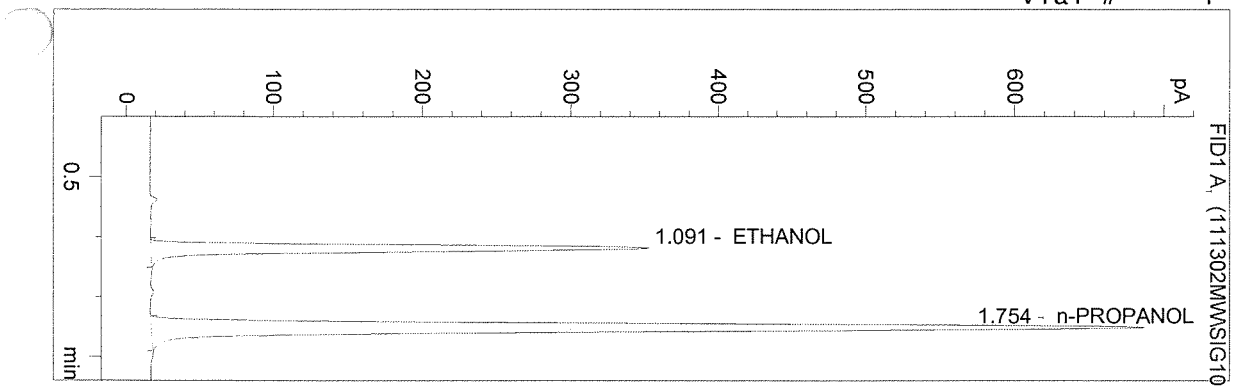
11/13/02 1:26:33 PM
Instrument 3
DB-ALC1

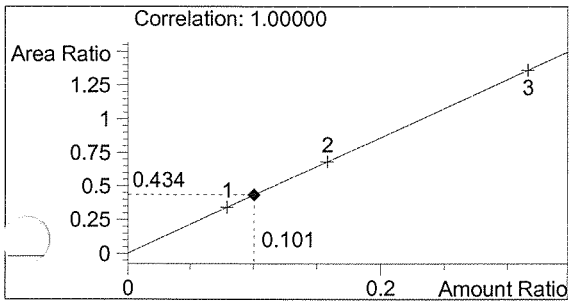
02036
Mary Wilson

vial # 4

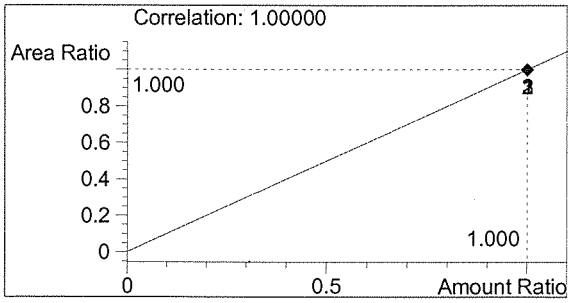


#	Compound	Area	RT
1	ETHANOL	1320	1.091
2	n-PROPANOL	3043	1.754

Totals:



ETHANOL 0.101 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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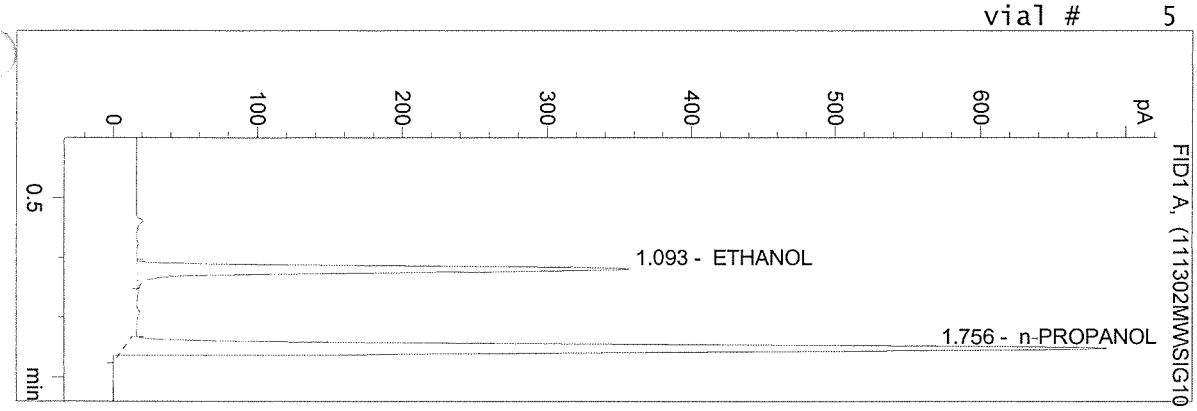
11/13/02 1:29:58 PM
Instrument 3
DB-ALC1

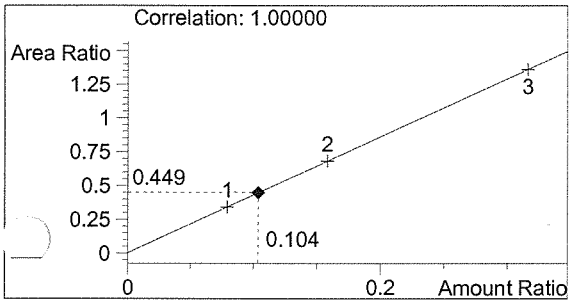
02036
Mary Wilson

vial # 5

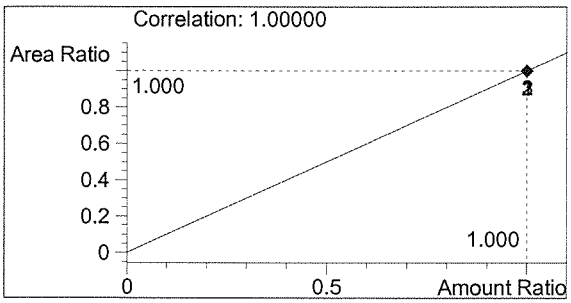


#	Compound	Area	RT
1	ETHANOL	1323	1.093
2	n-PROPANOL	2947	1.756

Totals:



ETHANOL 0.104 g/100mL



n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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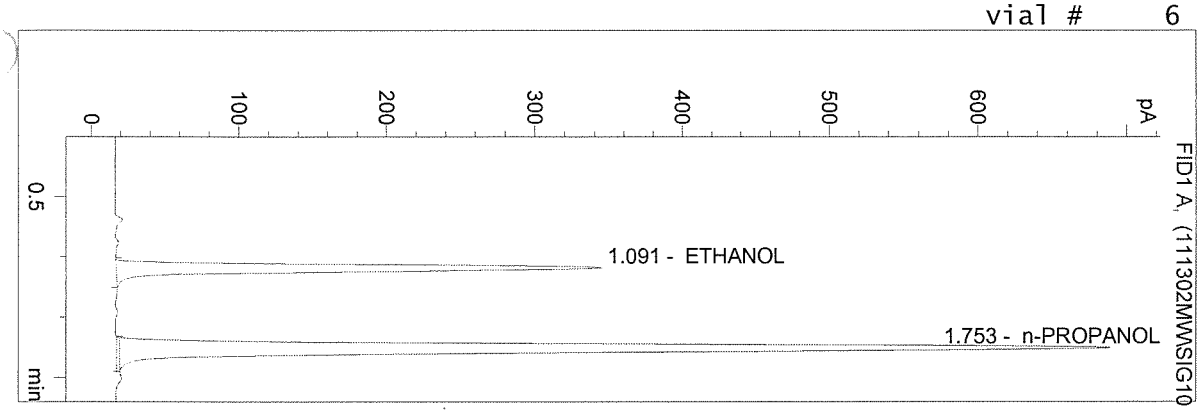
11/13/02 3:04:50 PM
Instrument 3
DB-ALC1

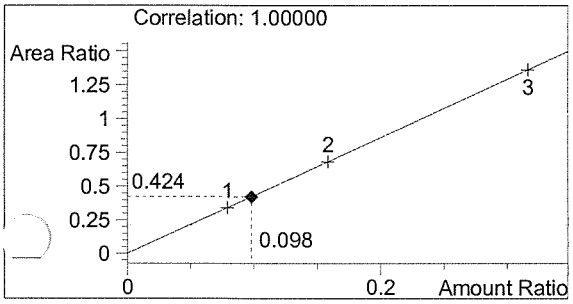
0.10 CTL
Mary Wilson

vial # 6

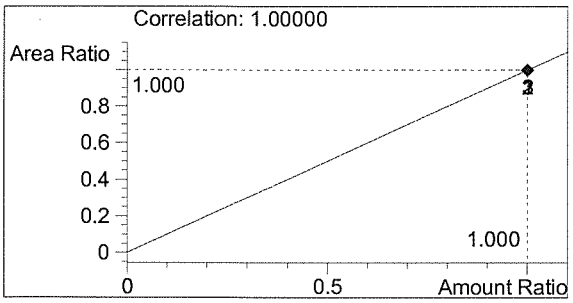


#	Compound	Area	RT
1	ETHANOL	1290	1.091
2	n-PROPANOL	3044	1.753

Totals:



ETHANOL 0.098 g/100mL



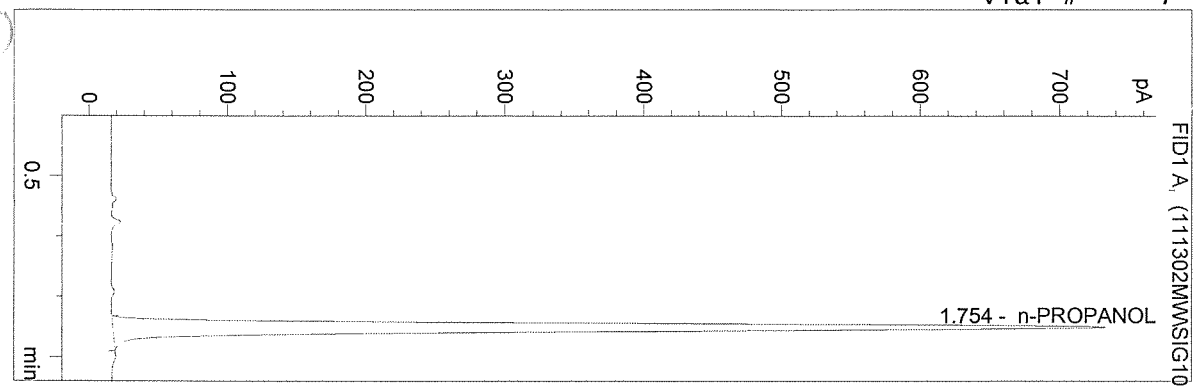
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
11/13/02 3:08:13 PM
Instrument 3
DB-ALC1

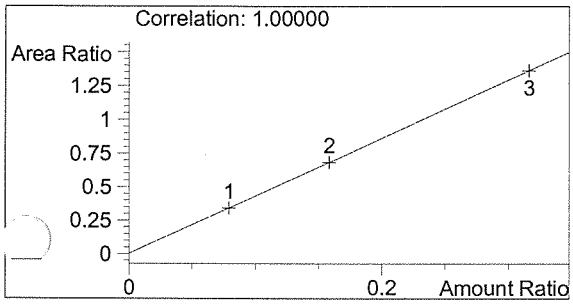
BLANK
Mary Wilson

vial # 7

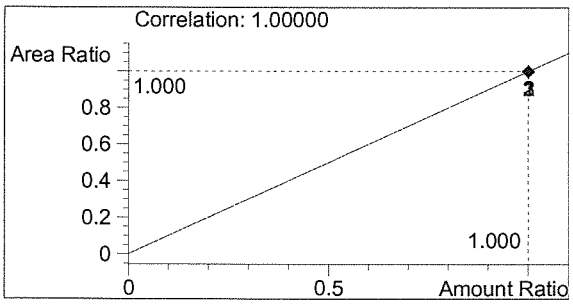


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3230	1.754

Totals:



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL