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

Batch number **02012** Date: 5/22/2002

Preparation: 11.1 mL of absolute ethyl alcohol diluted to 18 Liters with water

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

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal10	Anal 11	Anal 12
1	0.049	0.048	0.049									
2	0.049	0.049	0.049									
3	0.049	0.049	0.049									
4	0.049	0.049	0.049									
5	0.050	0.049	0.049									
Ctrl	0.100	0.100	0.101									

External Control:

Lot #: A021986 Exp date: Jan 2005

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.0490 g/100 mL

SD: 0.00038

Range (3xSD): 0.0479 to 0.0501

Precision CV (%): 0.7714 %

Equivalent vapor concent.: 0.0398 g/210L

Analyst	Name	Signature	Date
1	William P Marshall	William P Marshall	05/22/02
2	Ruth Luthi	Ruth Luthi	05/24/02
3	Eugene Schwilke	Gene Schwilke	05/28/02
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Prepared by: William P Marshall according to the approved protocol

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE 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 alcohol solutions for the BAC Verifier Data Master breath testing instrument.

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

The quality assurance solution, Lot Number 02012 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0490 grams per 100ml.

Dated: 5/30/02
Seattle, WA

William P. Marshall
Forensic Toxicologist

WM/nf
WMQA

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION CERTIFICATION

I, Ruth Luthi, do certify under penalty of perjury as follows:

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

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

The quality assurance solution, Lot Number 02012, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0490 grams per 100ml.

Dated: 5/30/02
Seattle, WA

Ruth Luthi
Forensic Toxicologist

RL/nf
RLQA

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2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 464-5435 • Fax (206) 389-2738

BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION CERTIFICATION

I, Eugene W. Schwilke, do certify under penalty of perjury that:

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

I possess the following qualifications: BS degree in Biology, 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 02012 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0490 grams per 100ml.

Dated: 5/30/02
Seattle, WA

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

GS/nf
GSQA

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Preparation and certification of **0.08** g/210L **Quality Assurance solution**

Batch number **02013** Date: 5/22/2002

Preparation: 22.2 mL of absolute ethyl alcohol diluted to 18 Liters with water

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

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal10	Anal 11	Anal 12
1	0.098	0.099	0.098									
2	0.099	0.099	0.100									
3	0.099	0.099	0.099									
4	0.098	0.098	0.099									
5	0.098	0.099	0.099									
Ctrl	0.100	0.100	0.102									

External Control:

Lot #: A021986 Exp date: Jan 2005

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.0987 g/100 mL

SD: 0.00059

Range (3xSD): 0.0970 to 0.1005

Precision CV (%): 0.6016 %

Equivalent vapor concent.: 0.0803 g/210L

Analyst	Name	Signature	Date
1	William P Marshall	Wm P Marshall	05/22/02
2	Ruth Luthi	Ruth Luthi	05/24/02
3	Eugene Schwilke	Gene Schwilke	05/28/02
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Prepared by: William P Marshall according to the approved protocol

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE 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 alcohol solutions for the BAC Verifier Data Master breath testing instrument.

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

The quality assurance solution, Lot Number 02013 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0987 grams per 100ml.

Dated: 5/30/02
Seattle, WA

William P. Marshall
Forensic Toxicologist

WM/nf
WMQA

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION CERTIFICATION

I, Ruth Luthi, do certify under penalty of perjury as follows:

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

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

The quality assurance solution, Lot Number 02013, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0987 grams per 100ml.

Dated: 5/30/02
Seattle, WA

Ruth Luthi
Forensic Toxicologist

RL/nf
RLQA

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION CERTIFICATION

I, Eugene W. Schwilke, do certify under penalty of perjury that:

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

I possess the following qualifications: BS degree in Biology, 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 02013 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0987 grams per 100ml.

Dated: 5/30/02
Seattle, WA

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

GS/nf
GSQA

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

Batch number **02014** Date: 5/22/2002

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

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

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal10	Anal 11	Anal 12
1	0.126	0.127	0.128									
2	0.126	0.127	0.127									
3	0.125	0.127	0.127									
4	0.126	0.128	0.128									
5	0.127	0.128	0.127									
Ctrl	0.100	0.100	0.101									

External Control:

Lot #: A021986 Exp date: Jan 2005

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.1269 g/100 mL

SD: 0.00088

Range (3xSD): 0.1243 to 0.1296

Precision CV (%): 0.6962 %

Equivalent vapor concent.: 0.1032 g/210L

Analyst	Name	Signature	Date
1	William P Marshall	Wm P Marshall	05/22/02
2	Ruth Luthi	Ruth Luthi	05/24/02
3	Eugene Schwilke	Gene Schwilke	05/28/02
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Prepared by: William P Marshall according to the approved protocol

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE 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 alcohol solutions for the BAC Verifier Data Master breath testing instrument.

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

The quality assurance solution, Lot Number 02014 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1269 grams per 100ml.

Dated: 5/30/02
Seattle, WA

William P. Marshall
Forensic Toxicologist

WM/nf
WMQA

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION CERTIFICATION

I, Ruth Luthi, do certify under penalty of perjury as follows:

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

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

The quality assurance solution, Lot Number 02014, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1269 grams per 100ml.

Dated: 5/30/02
Seattle, WA

Ruth Luthi
Forensic Toxicologist

RL/nf
RLQA

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION CERTIFICATION

I, Eugene W. Schwilke, do certify under penalty of perjury that:

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

I possess the following qualifications: BS degree in Biology, 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 02014 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1269 grams per 100ml.

Dated: 5/30/02
Seattle, WA

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

GS/nf
GSQA

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Preparation and certification of **0.15** g/210L **Quality Assurance solution**

Batch number **02015** Date: 5/22/2002

Preparation: 42.3 mL of absolute ethyl alcohol diluted to 18 Liters with water

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

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal10	Anal 11	Anal 12
1	0.184	0.187	0.187									
2	0.185	0.187	0.187									
3	0.185	0.187	0.187									
4	0.185	0.188	0.187									
5	0.185	0.187	0.188									
Ctrl	0.100	0.100	0.102									

External Control:

Lot #: A021986 Exp date: Jan 2005

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.1864 g/100 mL

SD: 0.00124

Range (3xSD): 0.1827 to 0.1901

Precision CV (%): 0.6664 %

Equivalent vapor concent.: 0.1515 g/210L

Analyst	Name	Signature	Date
1	William P Marshall	William P Marshall	05/22/02
2	Ruth Luthi	Ruth Luthi	05/24/02
3	Eugene Schwilke	Gene Schwilke	05/28/02
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Prepared by: William P Marshall according to the approved protocol

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE 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 alcohol solutions for the BAC Verifier Data Master breath testing instrument.

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

The quality assurance solution, Lot Number 02015 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1864 grams per 100ml.

Dated: 5/30/02
Seattle, WA

William P. Marshall
Forensic Toxicologist

WM/nf
WMQA

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION CERTIFICATION

I, Ruth Luthi, do certify under penalty of perjury as follows:

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

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

The quality assurance solution, Lot Number 02015, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1864 grams per 100ml.

Dated: 5/30/02
Seattle, WA

Ruth Luthi
Forensic Toxicologist

RL/nf
RLQA

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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION CERTIFICATION

I, Eugene W. Schwilke, do certify under penalty of perjury that:

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

I possess the following qualifications: BS degree in Biology, 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 02015 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.1864 grams per 100ml.

Dated: 5/30/02
Seattle, WA

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

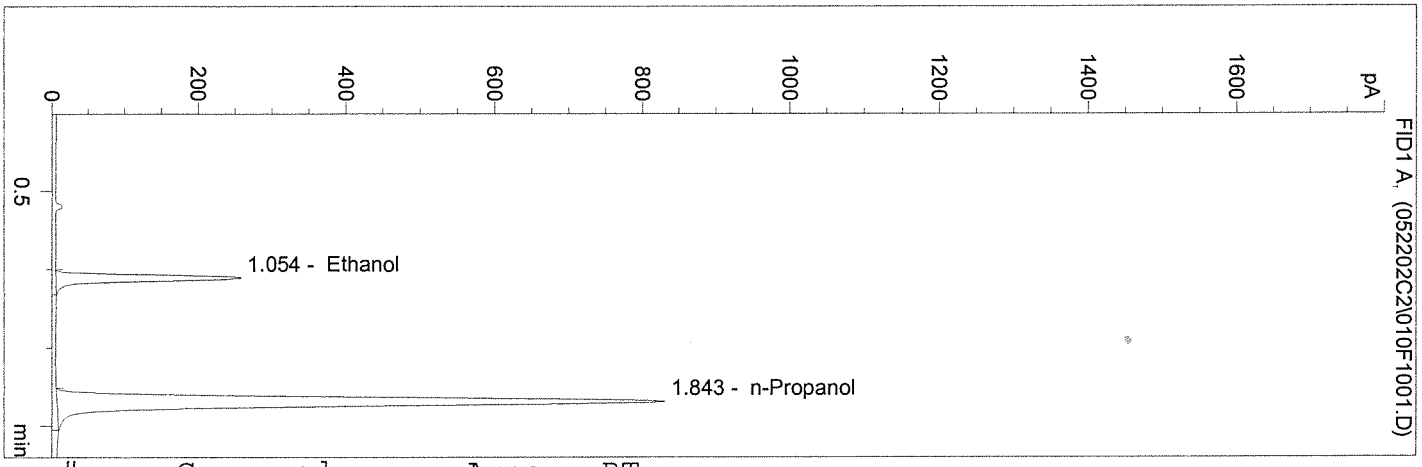
GS/nf
GSQA

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
5/22/02 1:33:02 PM
Instrument 2
ALC1

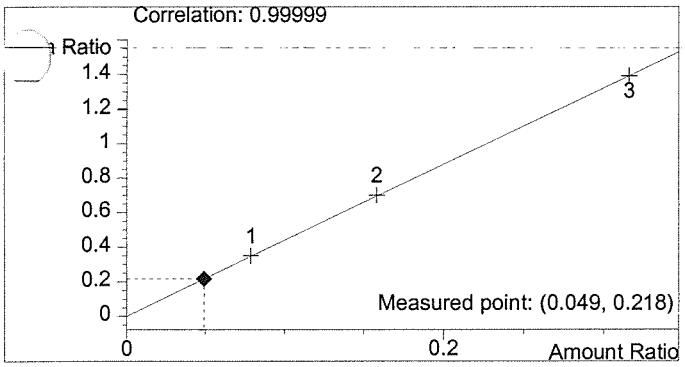
02012 QA 0.04
WP MARSHALL

vial # 10

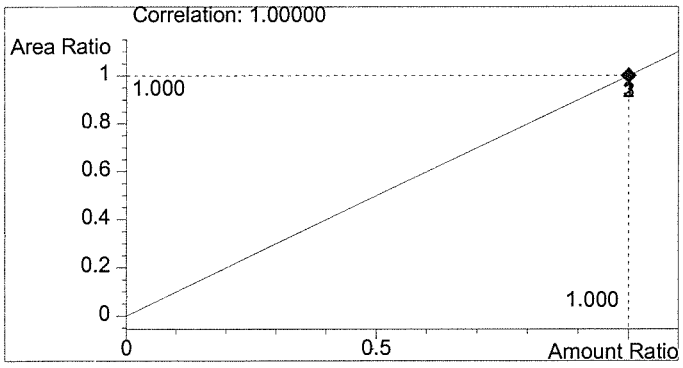


#	Compound	Area	RT
1	Ethanol	688	1.054
2	n-Propanol	3164	1.843

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

STDS
022956

WASHINGTON STATE TOXICOLOGY LABORATORY

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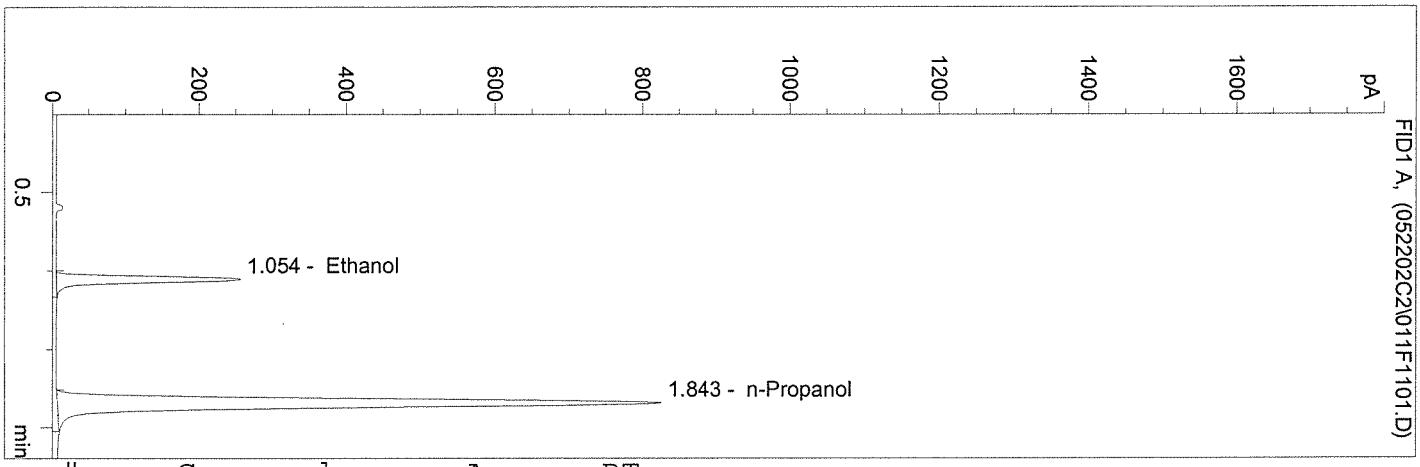
5/22/02 1:36:03 PM
Instrument 2
[illegible]-ALC1

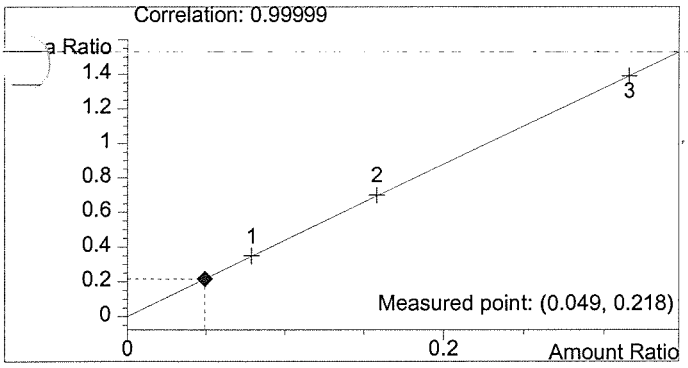
02012 QA 0.04
WP MARSHALL

vial # 11

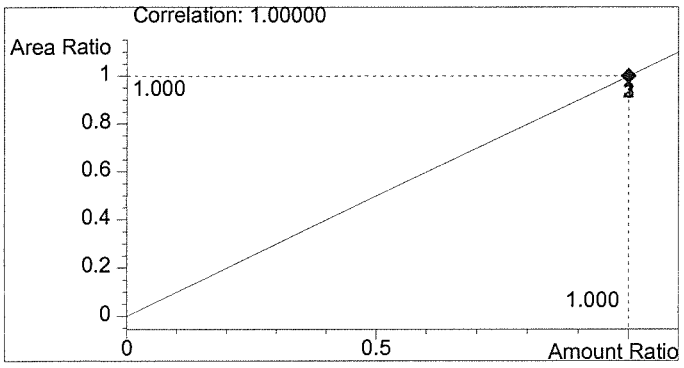


#	Compound	Area	RT
1	Ethanol	686	1.054
2	n-Propanol	3150	1.843

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 2
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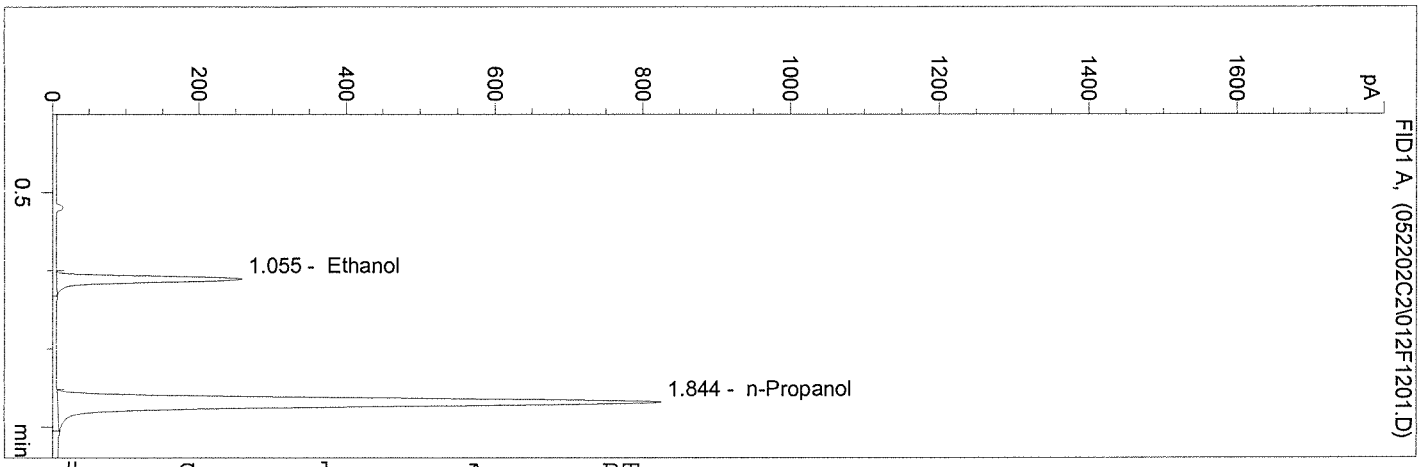
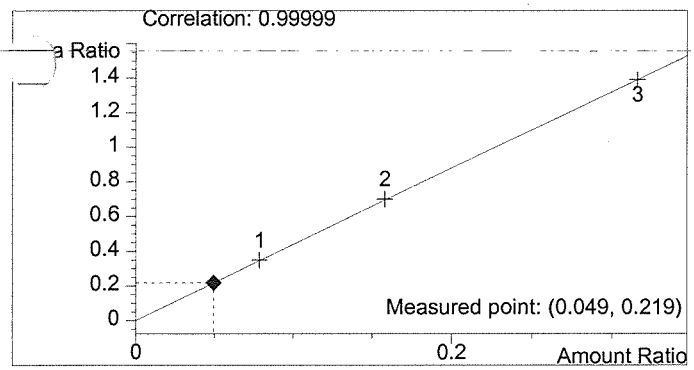
02012 QA 0.04
WP MARSHALL

vial # 12

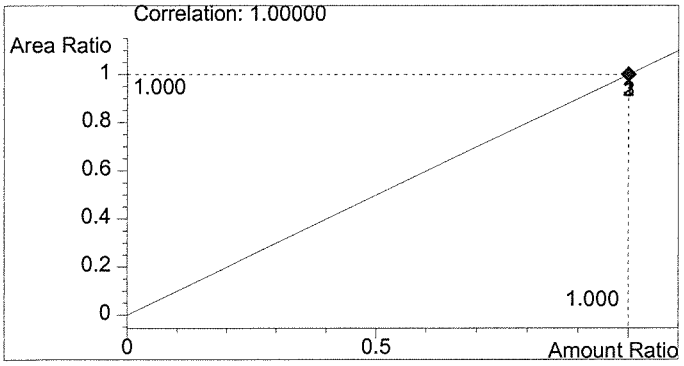


#	Compound	Area	RT
1	Ethanol	687	1.055
2	n-Propanol	3141	1.844

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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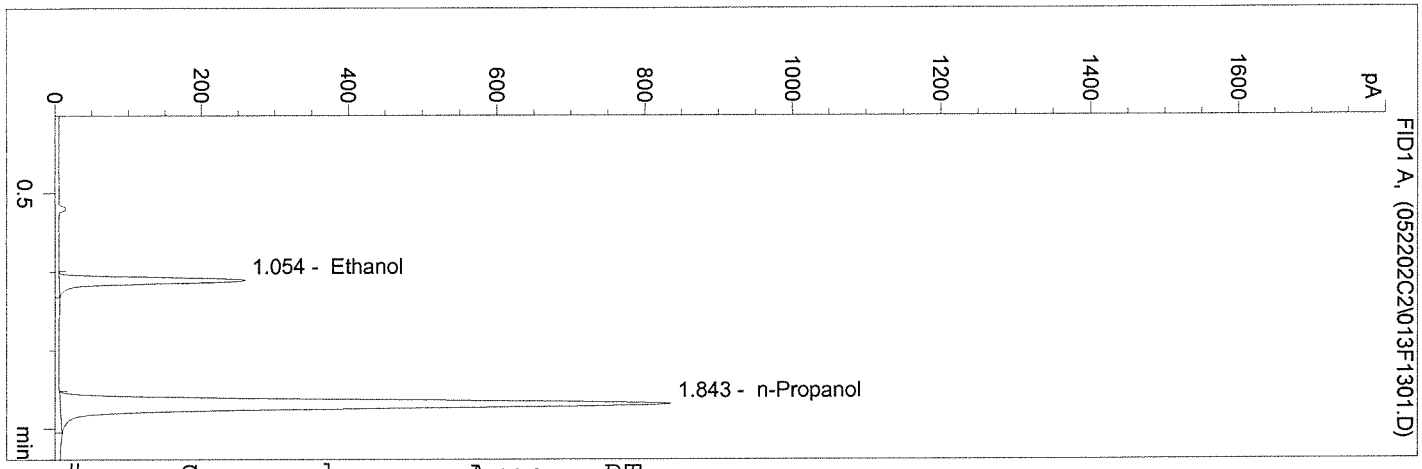
Instrument 2
-ALC1

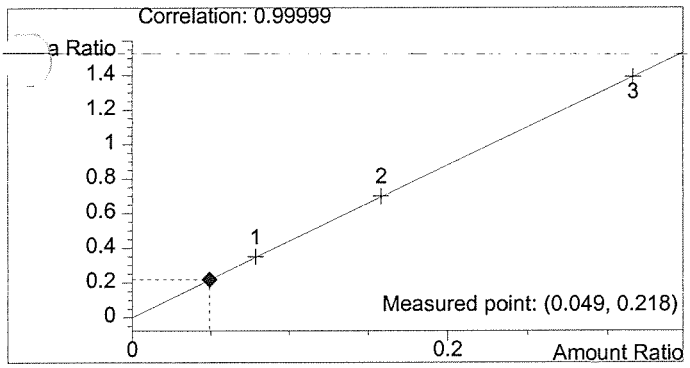
02012 QA 0.04
WP MARSHALL

vial # 13

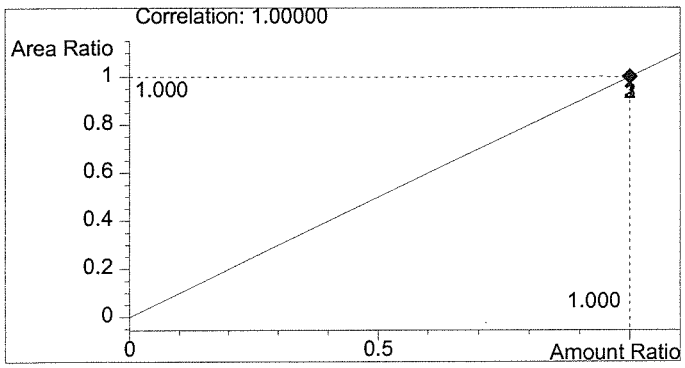


#	Compound	Area	RT
1	Ethanol	695	1.054
2	n-Propanol	3185	1.843

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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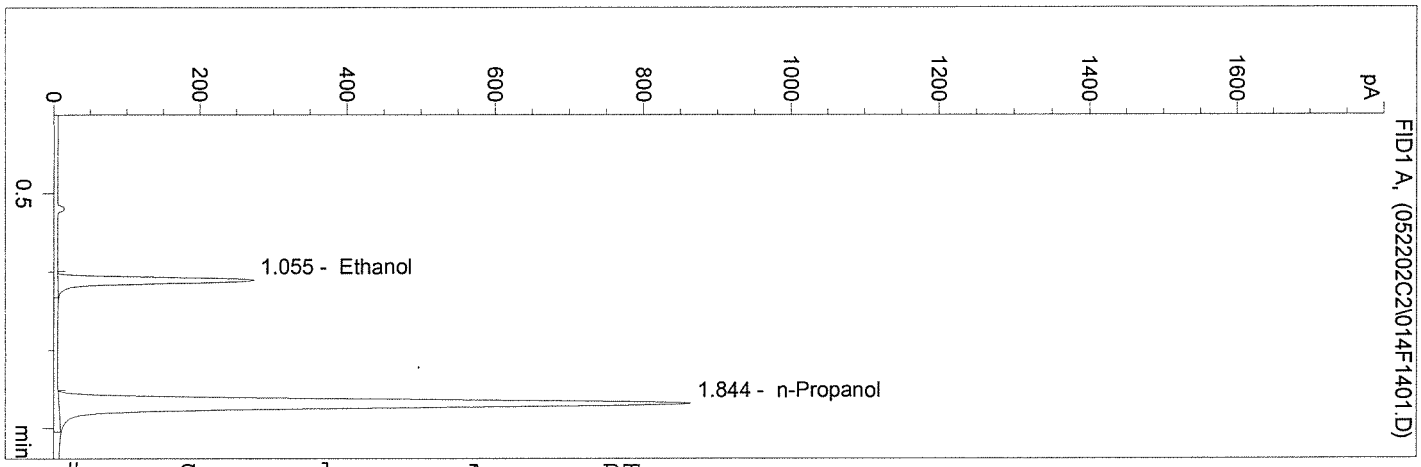
5/22/02 1:45:22 PM
Instrument 2
-ALC1

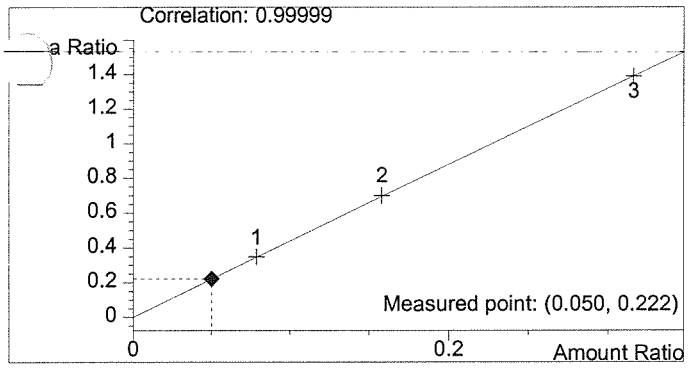
02012 QA 0.04
WP MARSHALL

vial # 14

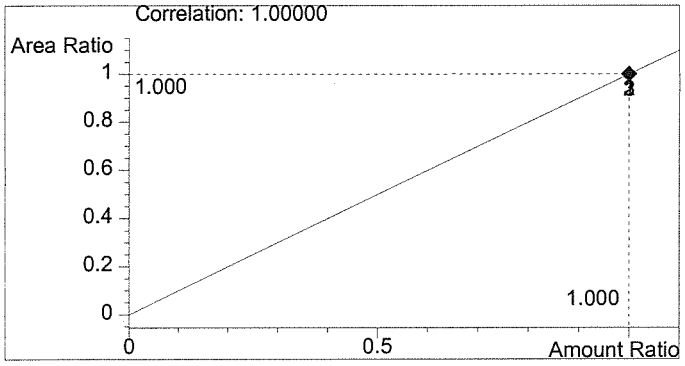


#	Compound	Area	RT
1	Ethanol	731	1.055
2	n-Propanol	3294	1.844

Totals:



Ethanol 0.050 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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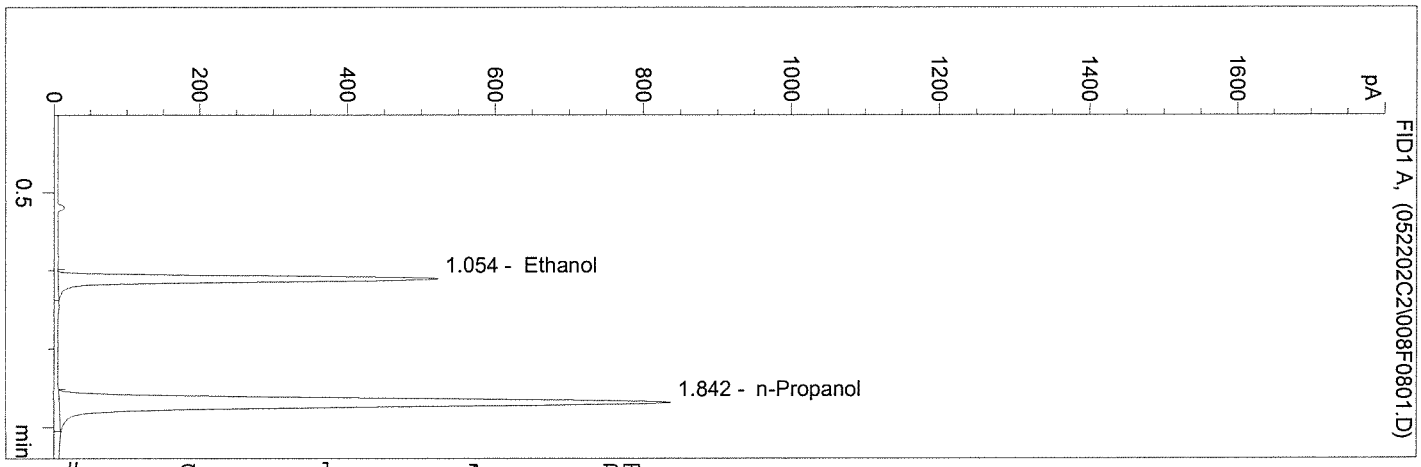
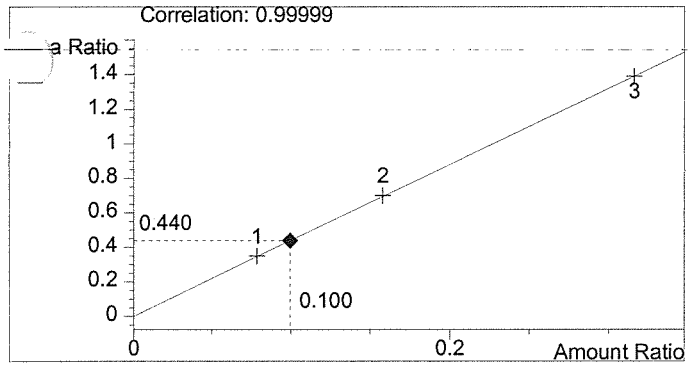
CONTROL 0.10 WM
WP MARSHALL

vial # 8

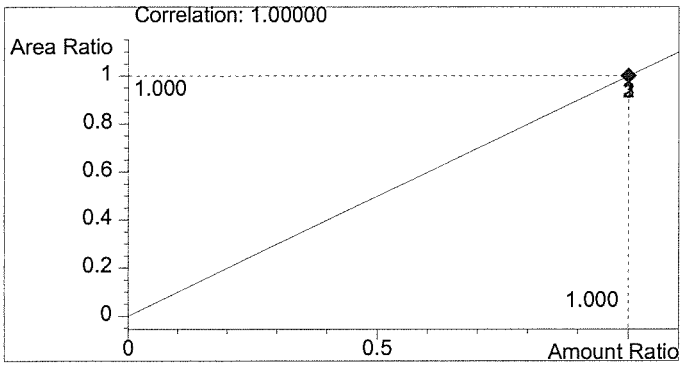


#	Compound	Area	RT
1	Ethanol	1403	1.054
2	n-Propanol	3190	1.842

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
-ALC1

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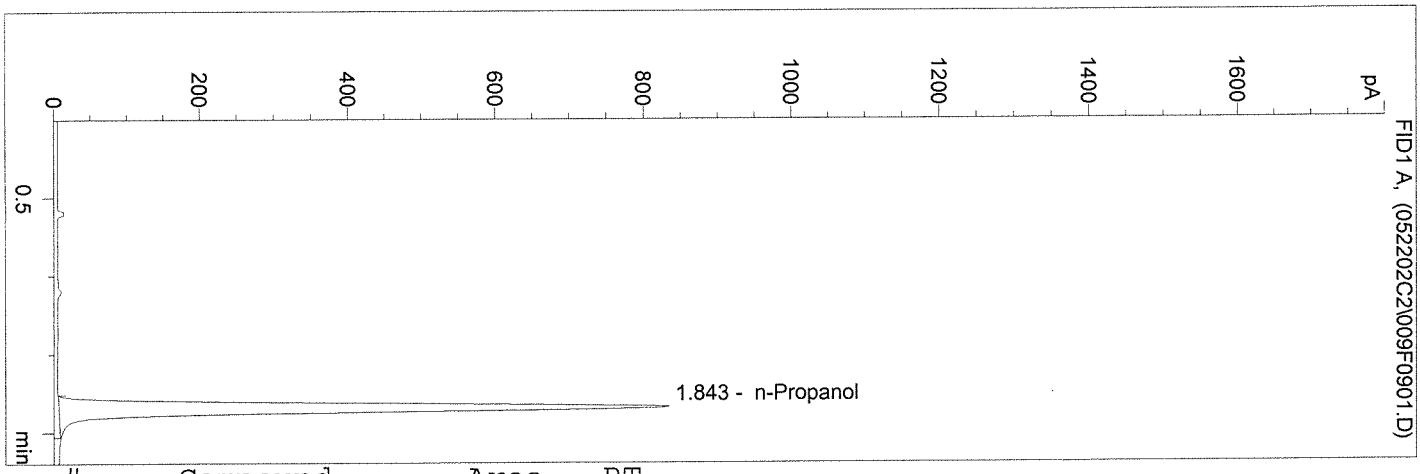
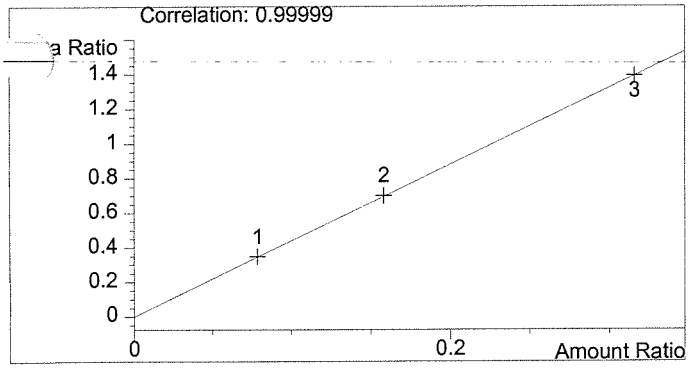
WP MARSHALL

vial # 9

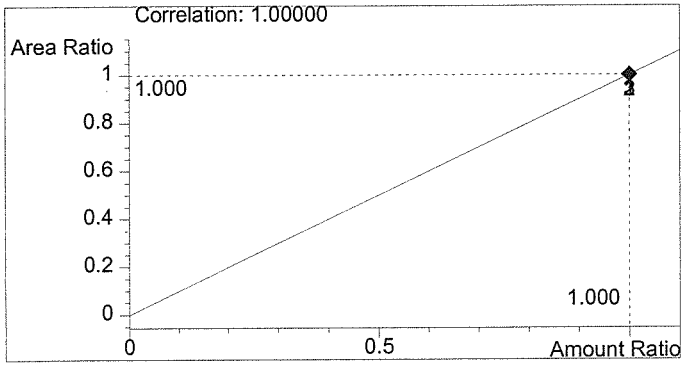


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3180	1.843

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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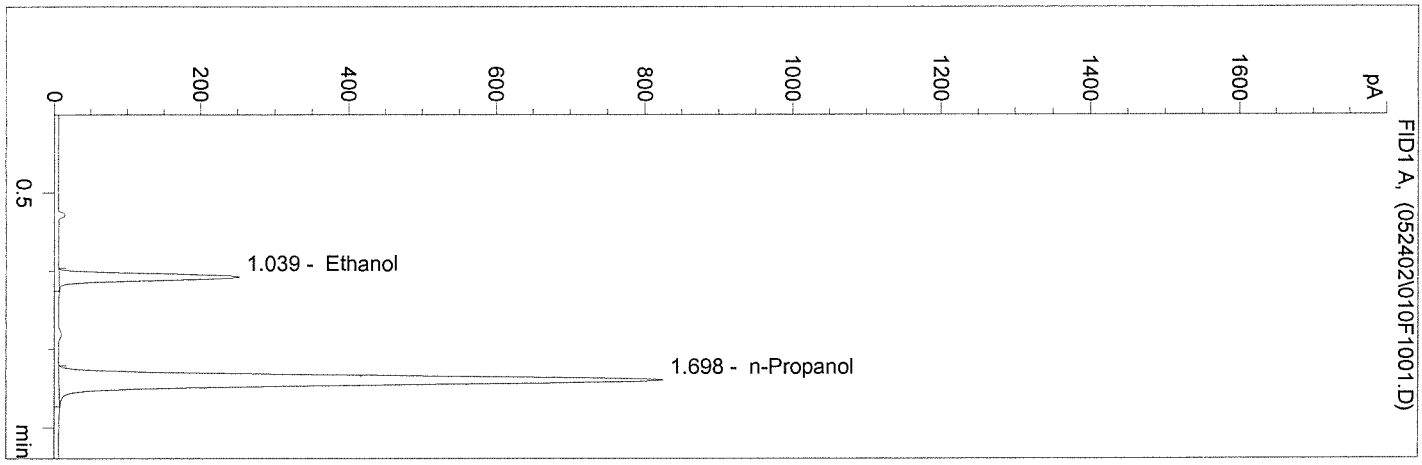
Instrument 1
ALC1

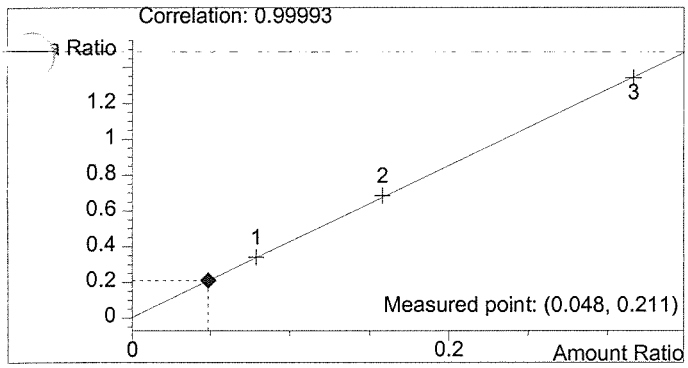
02012 0.04 QA
RUTH LUTHI

vial # 10

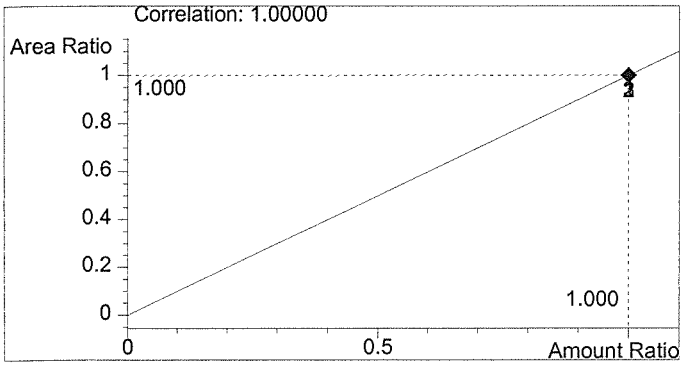


#	Compound	Area	RT
1	Ethanol	714	1.039
2	n-Propanol	3391	1.698

Totals:



Ethanol 0.048 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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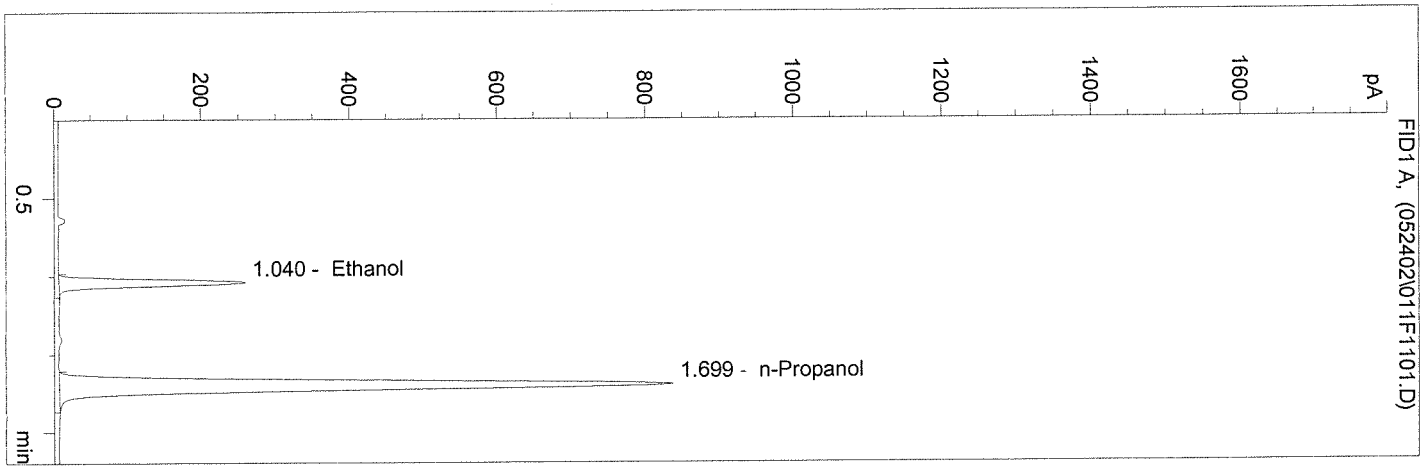
Instrument 1
-ALC1

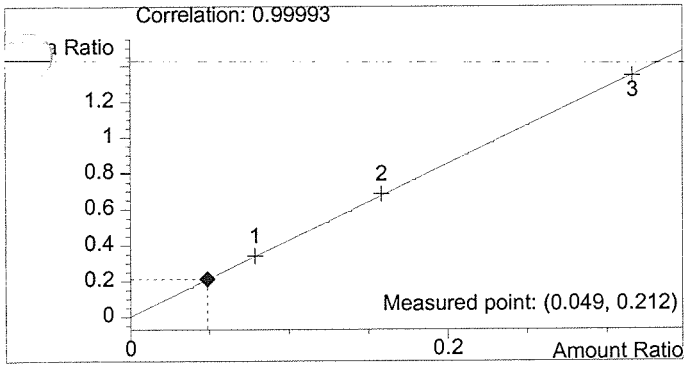
02012 0.04 QA
RUTH LUTHI

vial # 11

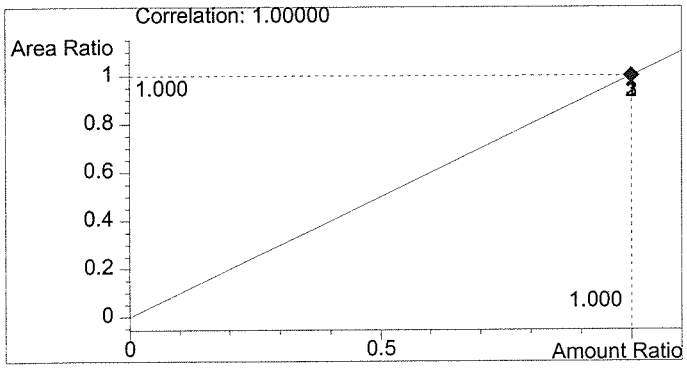


#	Compound	Area	RT
1	Ethanol	732	1.040
2	n-Propanol	3451	1.699

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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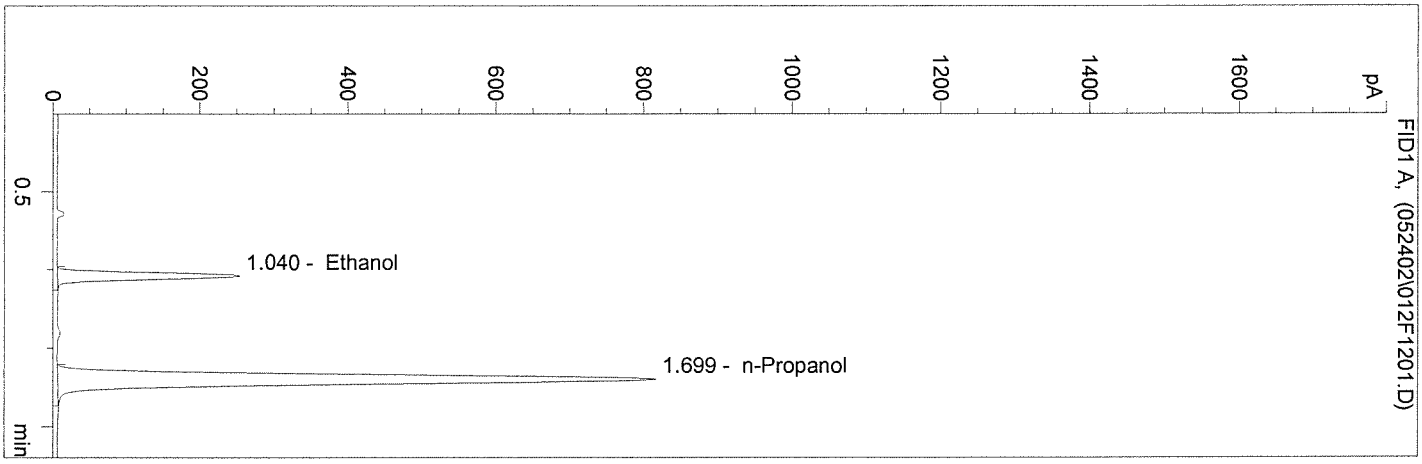
Instrument 1
ALC1

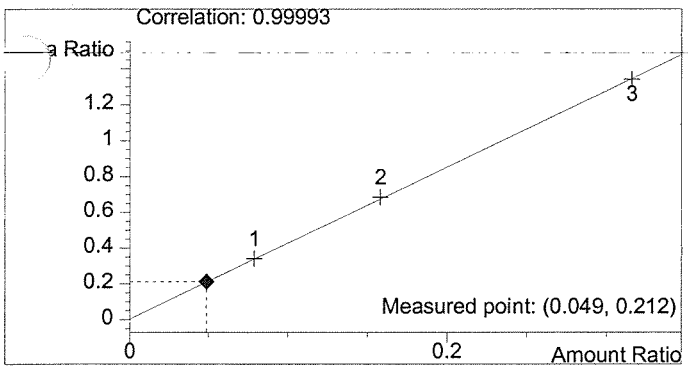
02012 0.04 QA
RUTH LUTHI

vial # 12

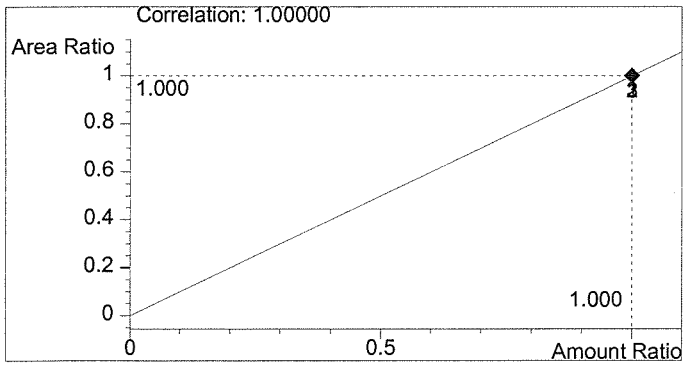


#	Compound	Area	RT
1	Ethanol	712	1.040
2	n-Propanol	3362	1.699

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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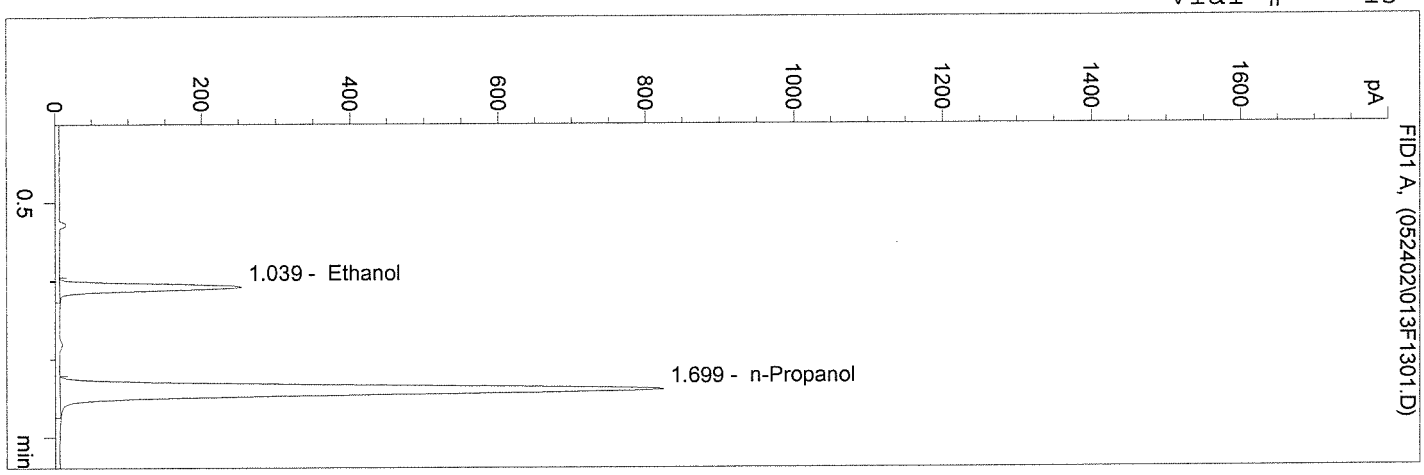
Instrument 1
-ALC1

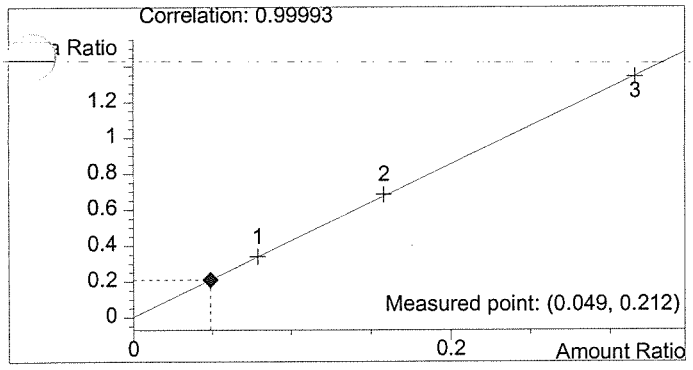
02012 0.04 QA
RUTH LUTHI

vial # 13

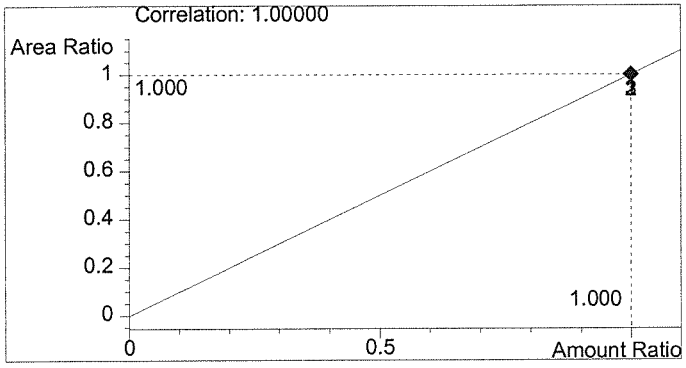


#	Compound	Area	RT
1	Ethanol	714	1.039
2	n-Propanol	3373	1.699

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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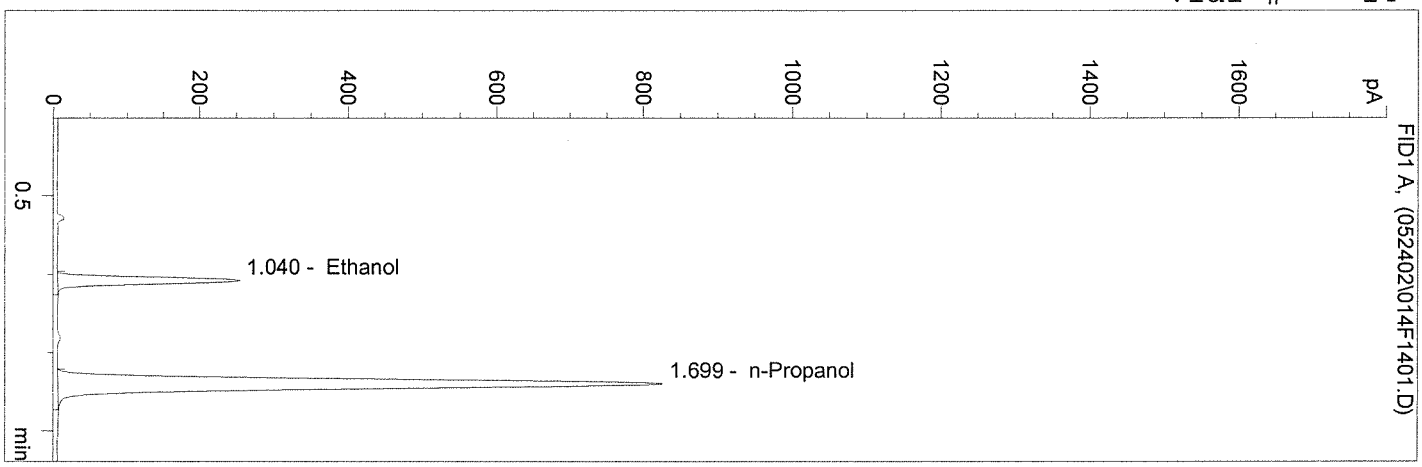
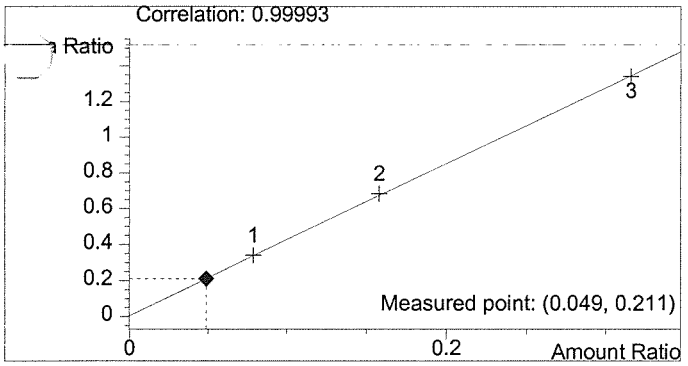
Instrument 1
ALC1

02012 0.04 QA
RUTH LUTHI

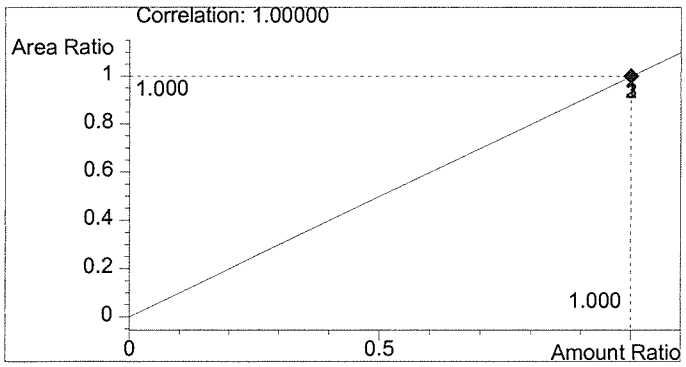
vial # 14



#	Compound	Area	RT
1	Ethanol	718	1.040
2	n-Propanol	3393	1.699
Totals:			



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 1
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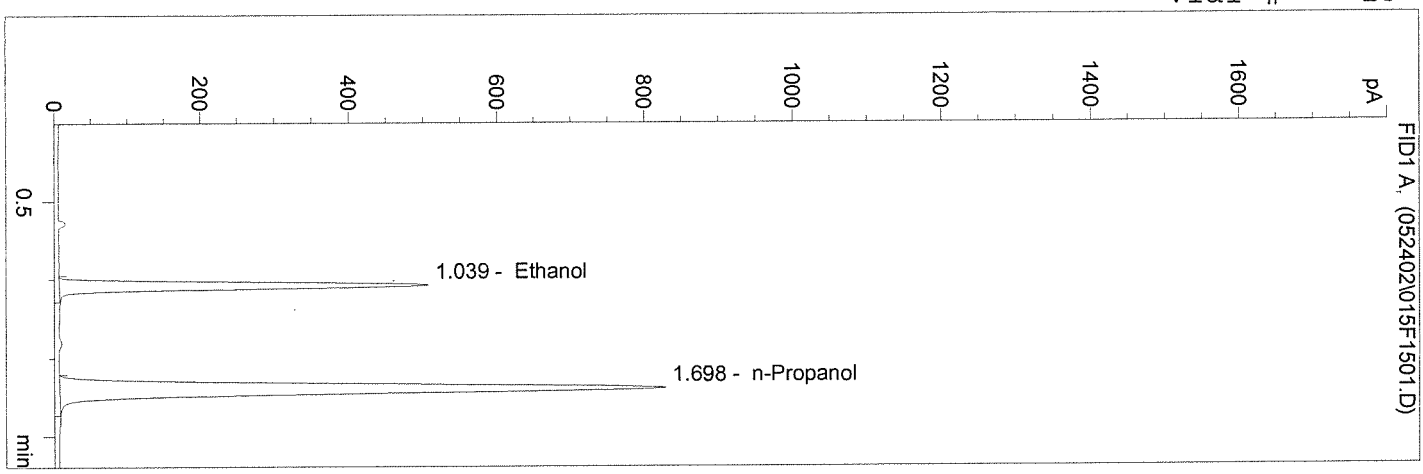
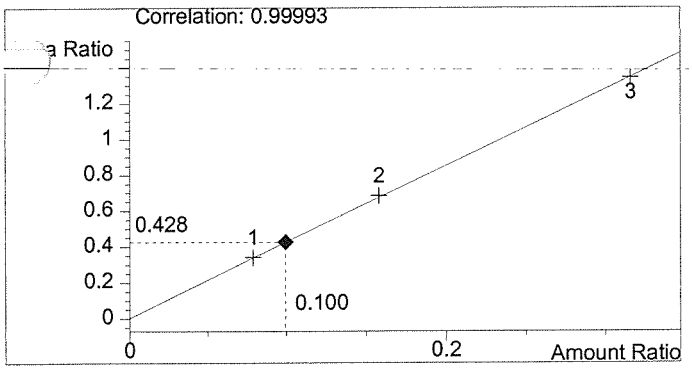
0.100 CTRL
RUTH LUTHI

vial # 15

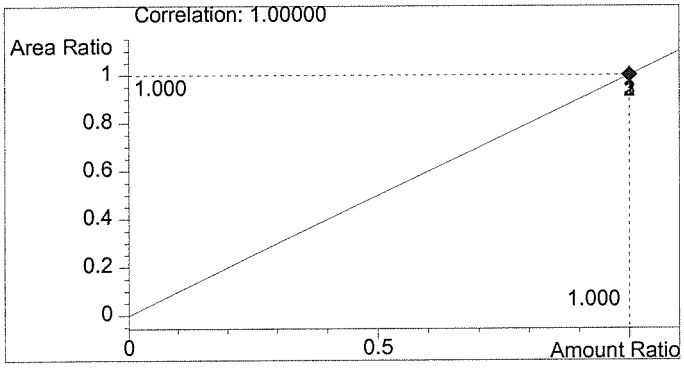


#	Compound	Area	RT
1	Ethanol	1454	1.039
2	n-Propanol	3400	1.698

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
-ALC1

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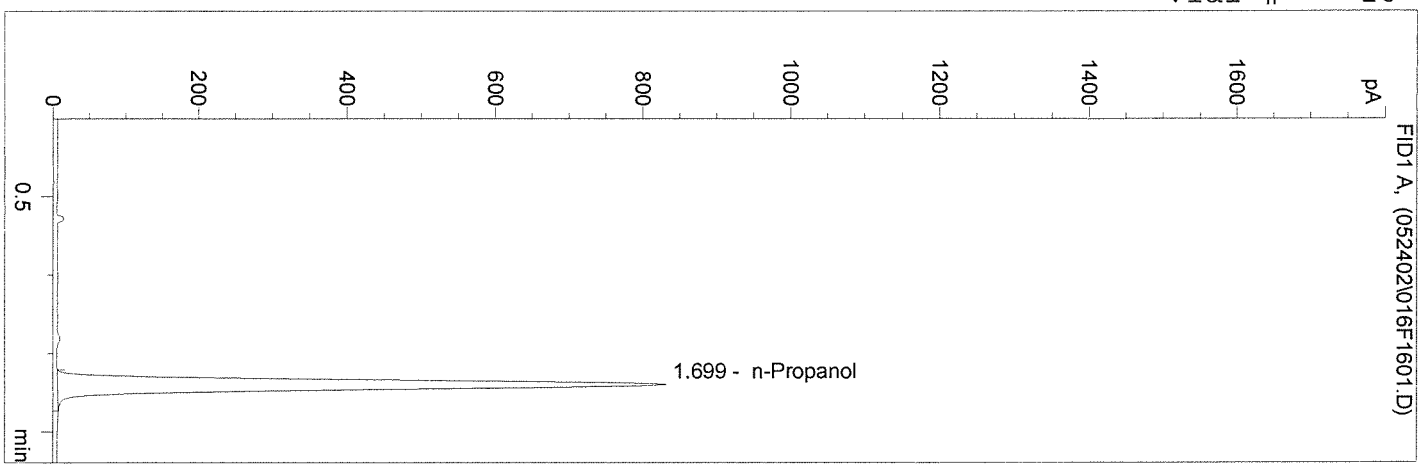
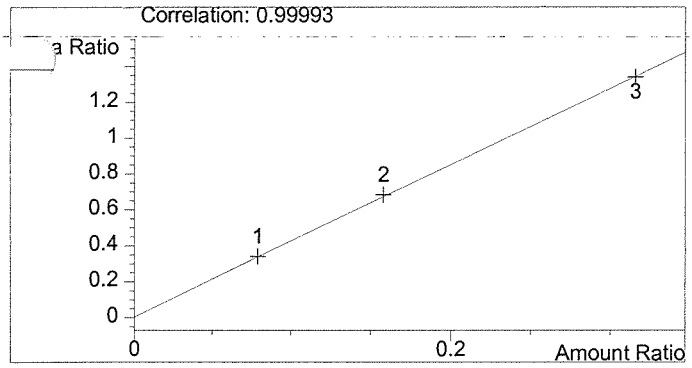
RUTH LUTHI

vial # 16

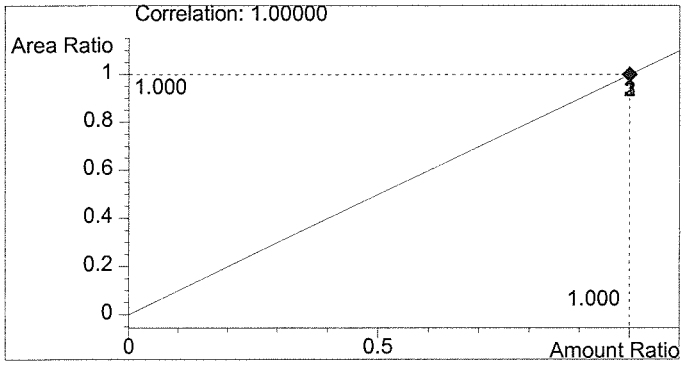


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3417	1.699

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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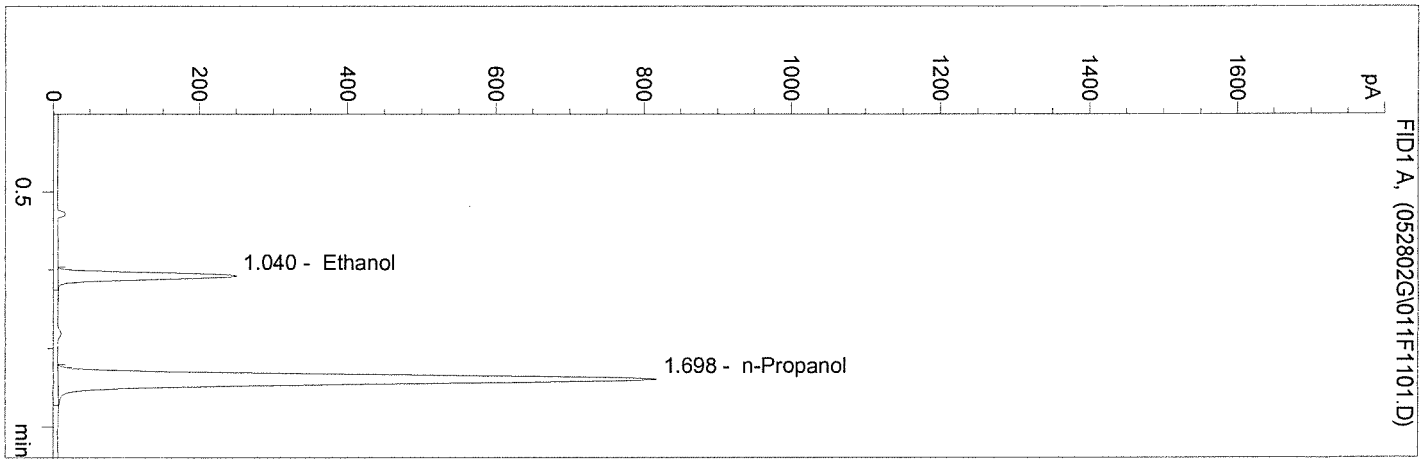
Instrument 1
-ALC1

cal 3010

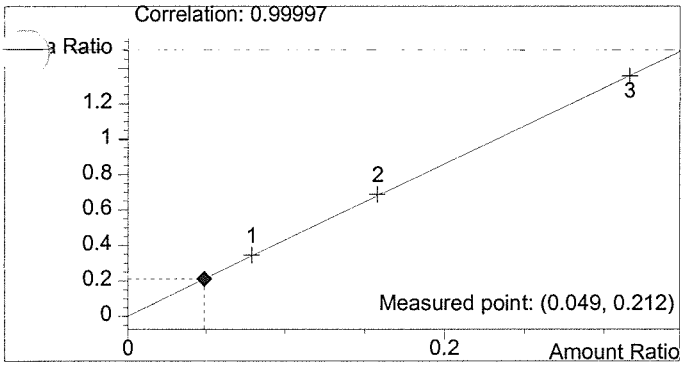
QASOL 02012 0.04
GENE SCHWILKE

vial # 11

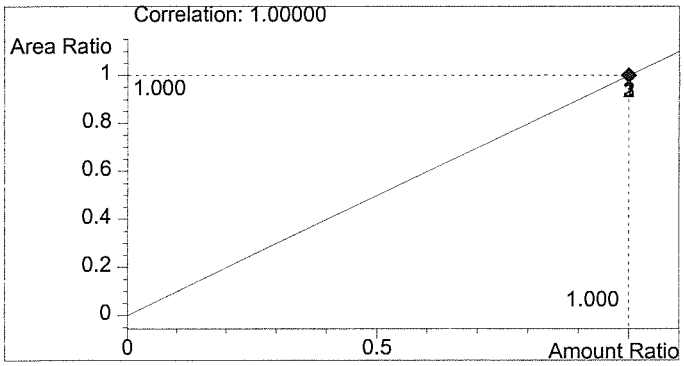


#	Compound	Area	RT
1	Ethanol	713	1.040
2	n-Propanol	3358	1.698

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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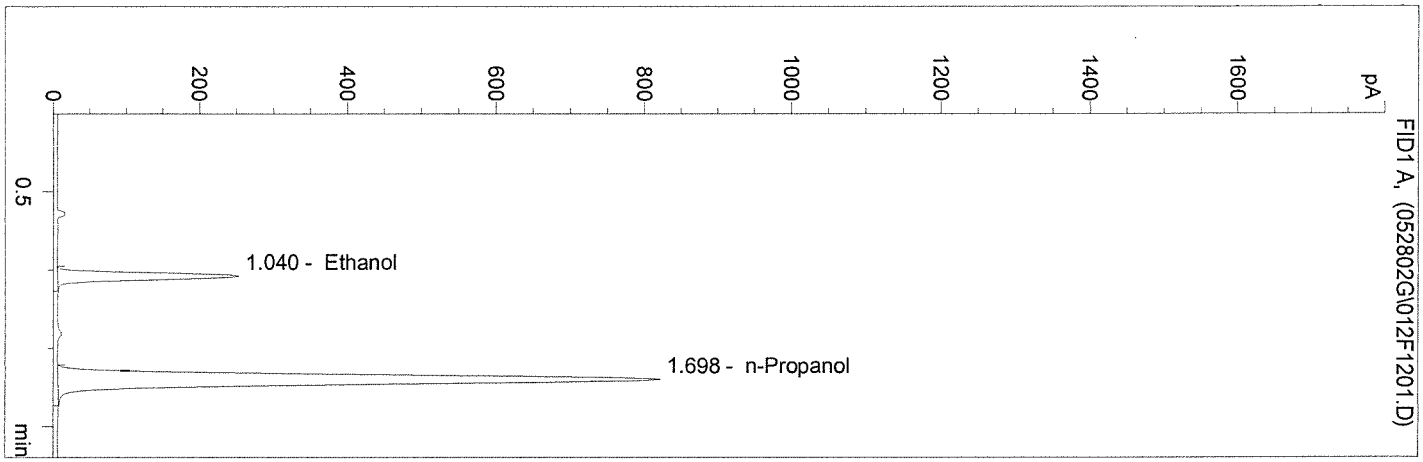
Instrument 1
ALC1

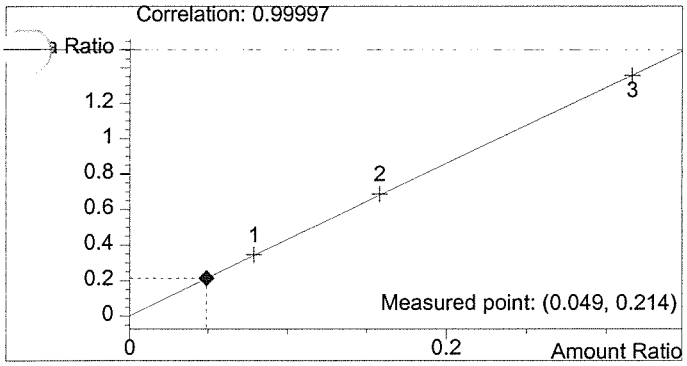
QASOL 02012 0.04
GENE SCHWILKE

vial # 12

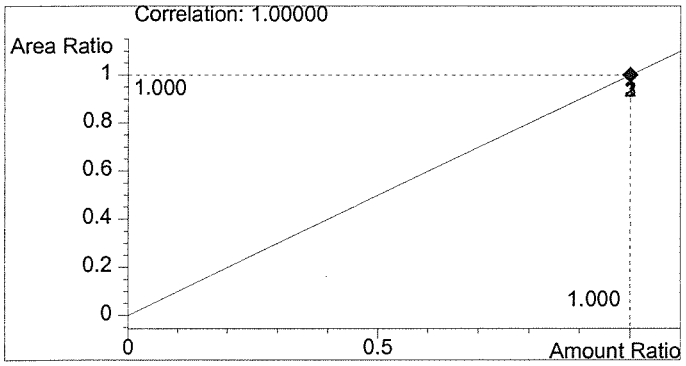


#	Compound	Area	RT
1	Ethanol	721	1.040
2	n-Propanol	3377	1.698

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

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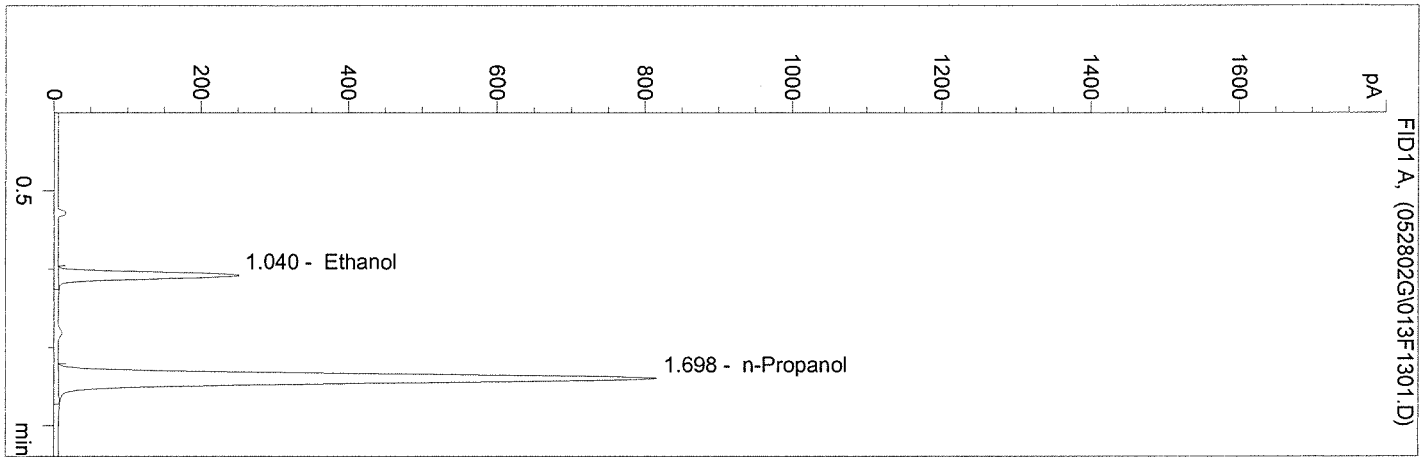
Instrument 1
-ALC1

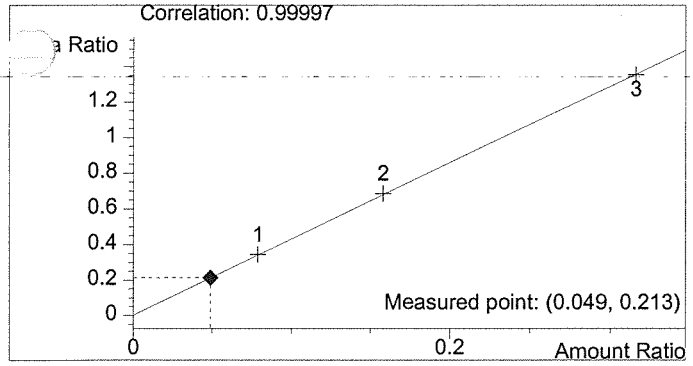
QASOL 02012 0.04
GENE SCHWILKE

vial # 13

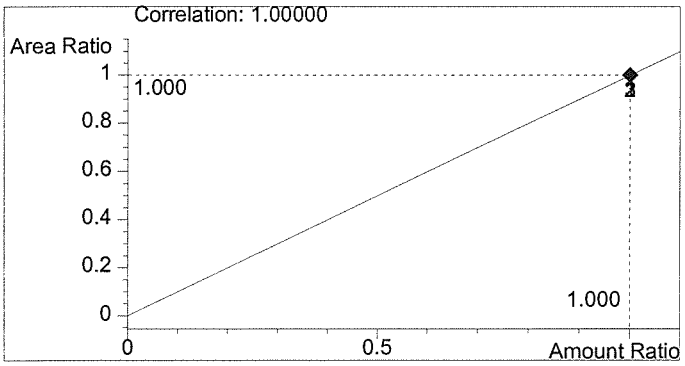


#	Compound	Area	RT
1	Ethanol	716	1.040
2	n-Propanol	3355	1.698

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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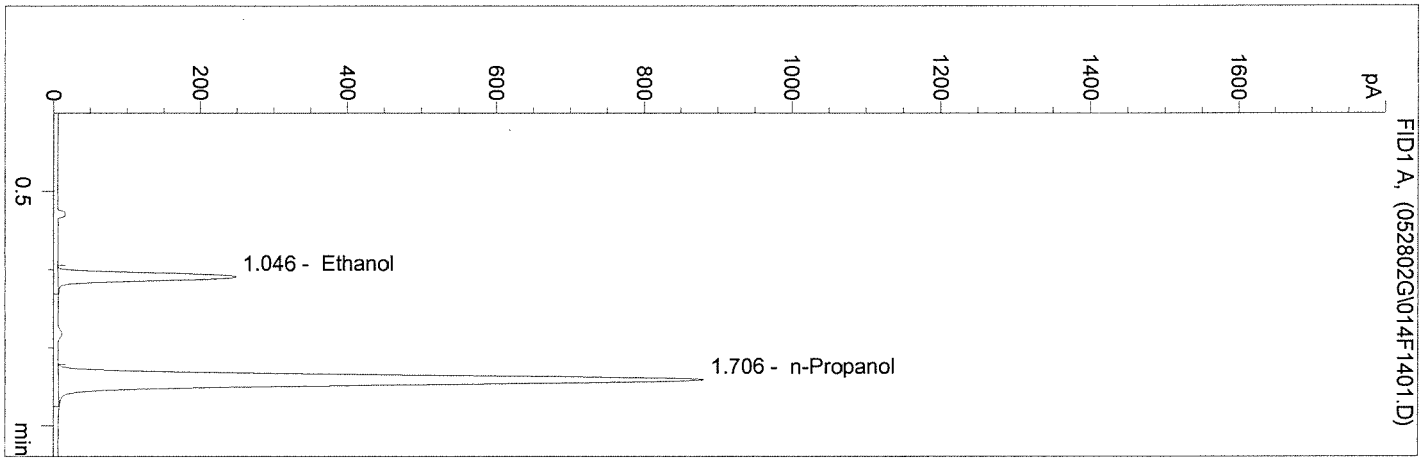
Instrument 1
-ALC1

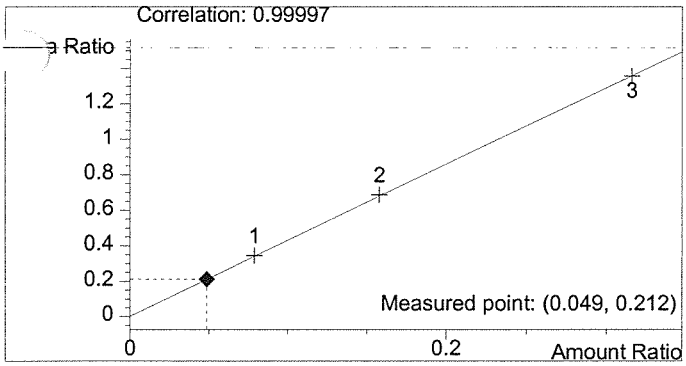
QASOL 02012 0.04
GENE SCHWILKE

vial # 14

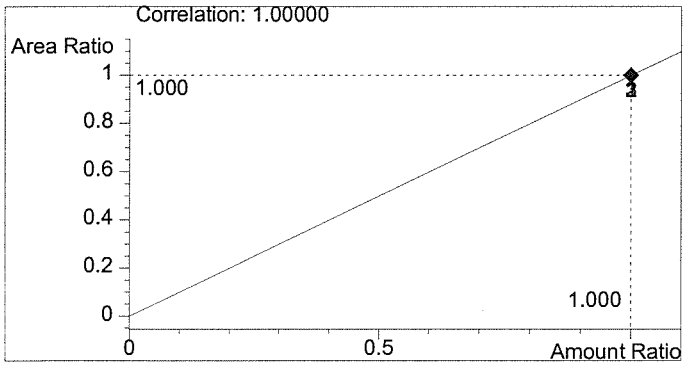


#	Compound	Area	RT
1	Ethanol	801	1.046
2	n-Propanol	3779	1.706

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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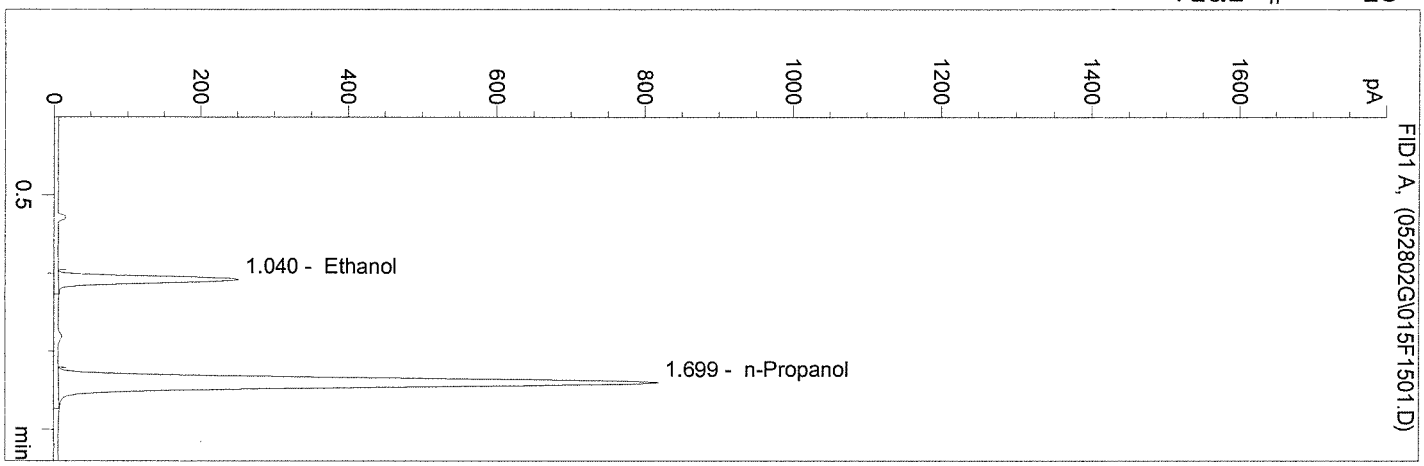
Instrument 1
-ALC1

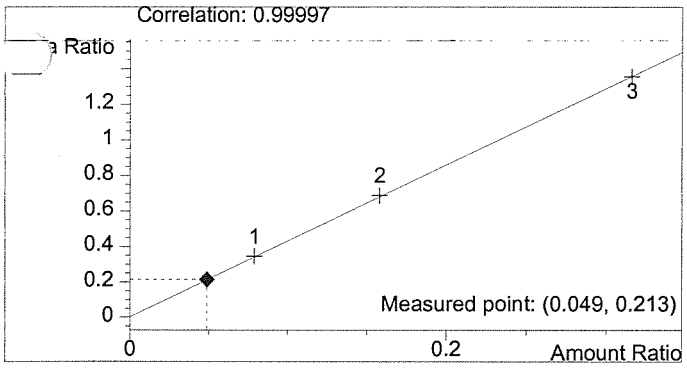
QASOL 02012 0.04
GENE SCHWILKE

vial # 15

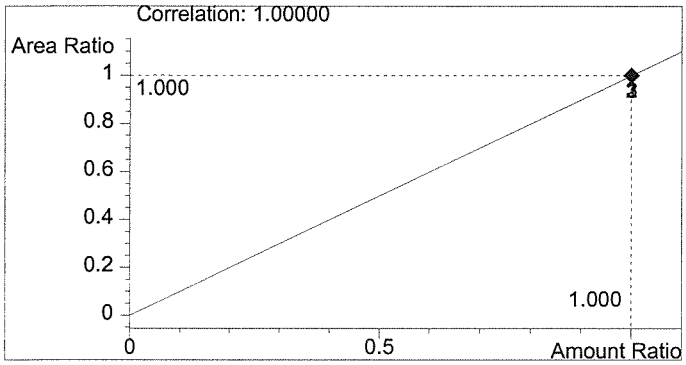


#	Compound	Area	RT
1	Ethanol	716	1.040
2	n-Propanol	3361	1.699

Totals:



Ethanol 0.049 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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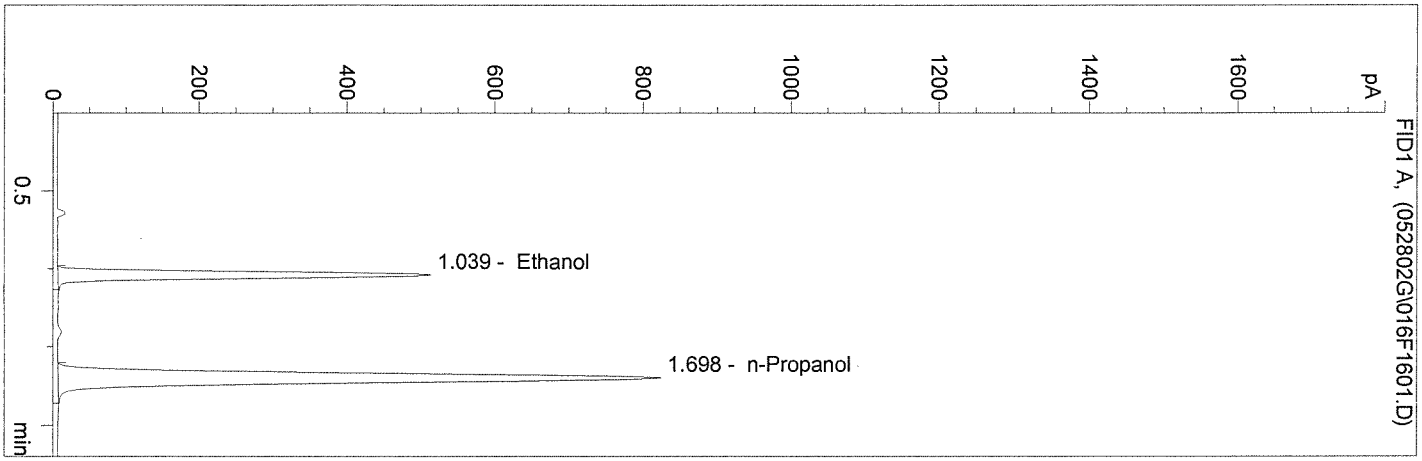
Instrument 1
-ALC1

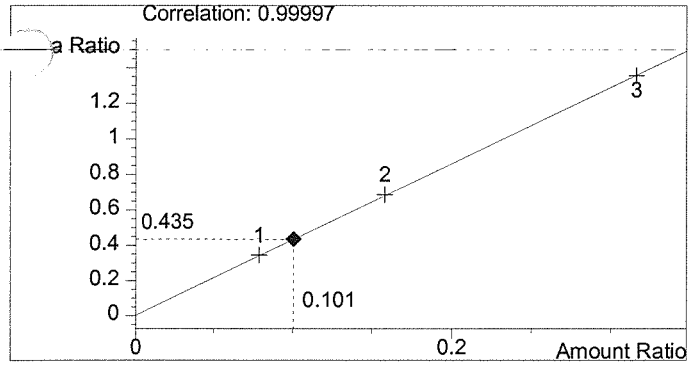
CAP 0.100
GENE SCHWILKE

vial # 16

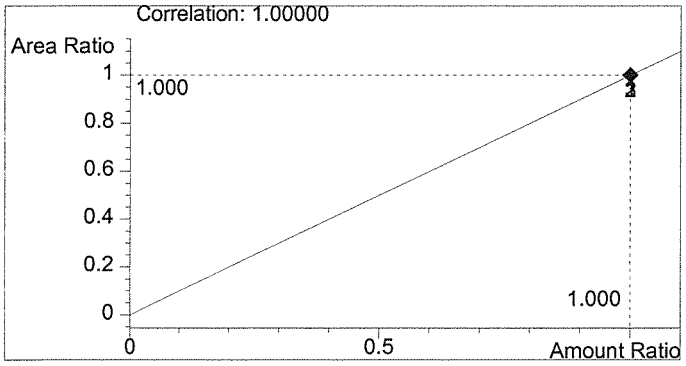


#	Compound	Area	RT
1	Ethanol	1467	1.039
2	n-Propanol	3373	1.698

Totals:



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 1
-ALC1

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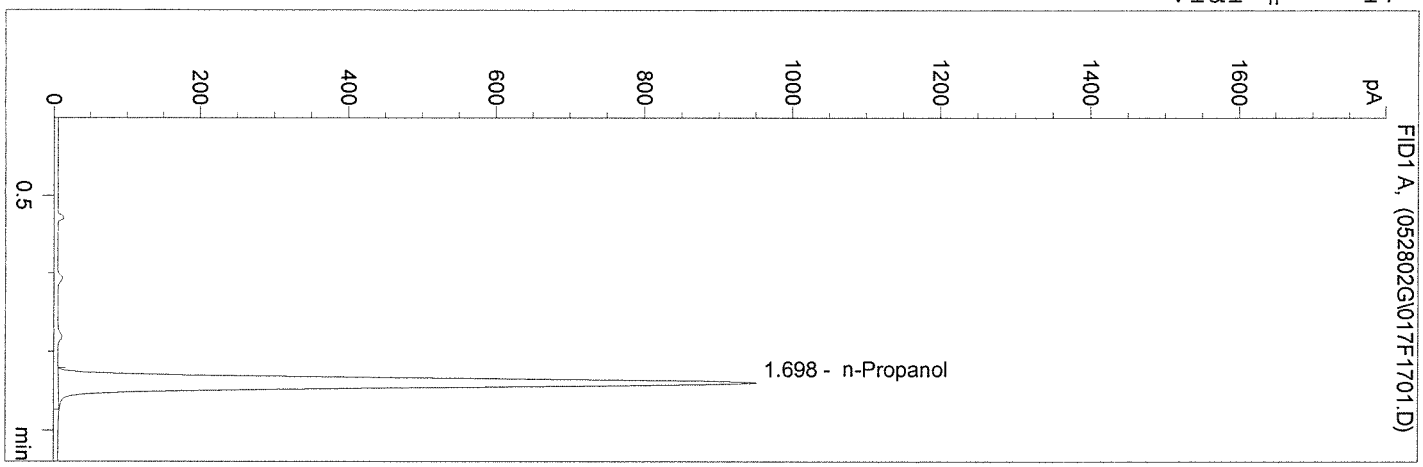
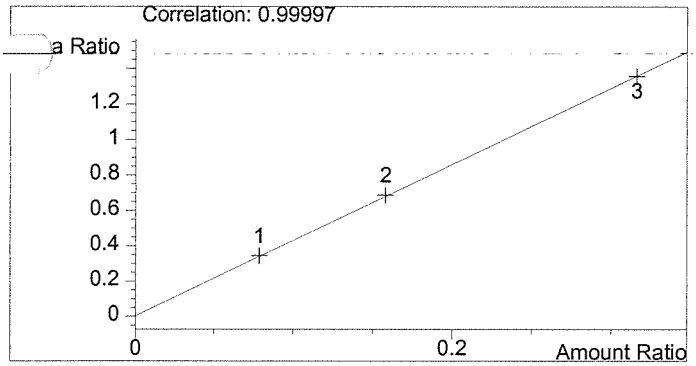
GENE SCHWILKE

vial # 17

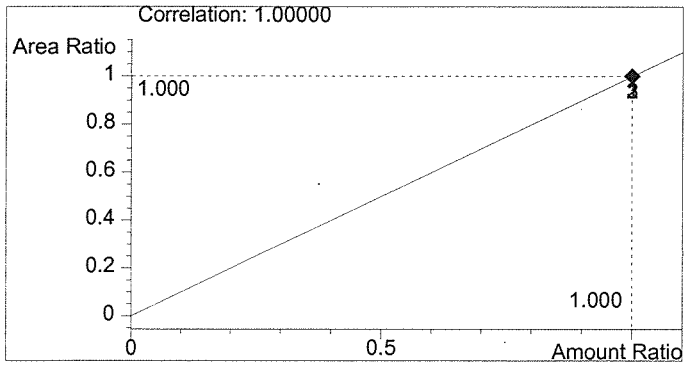


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3900	1.698

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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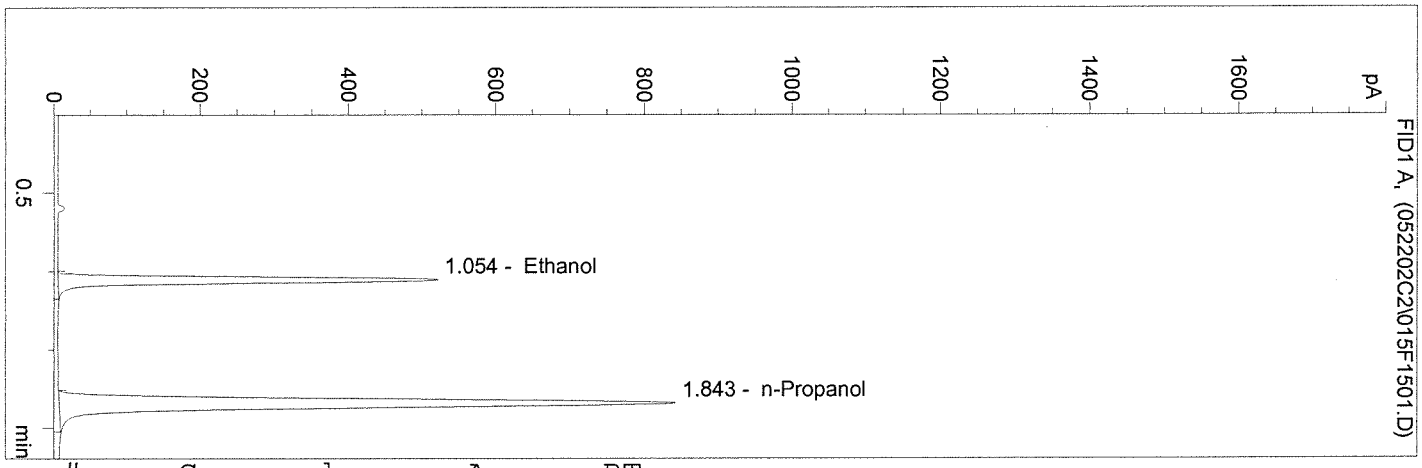
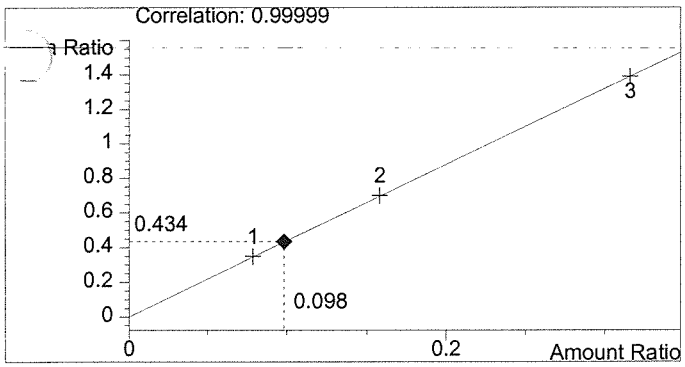
WP MARSHALL

vial # 15

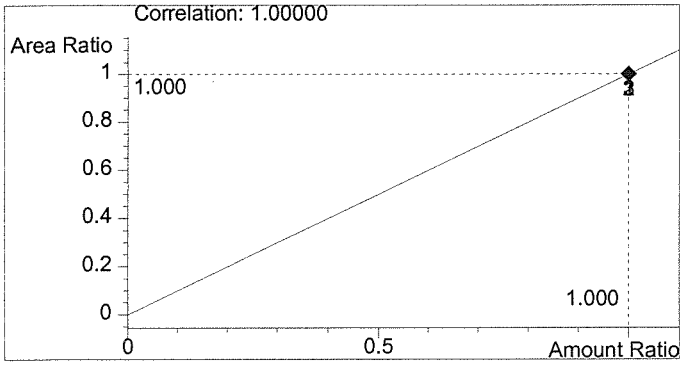


#	Compound	Area	RT
1	Ethanol	1394	1.054
2	n-Propanol	3209	1.843

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

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WASHINGTON STATE TOXICOLOGY LABORATORY

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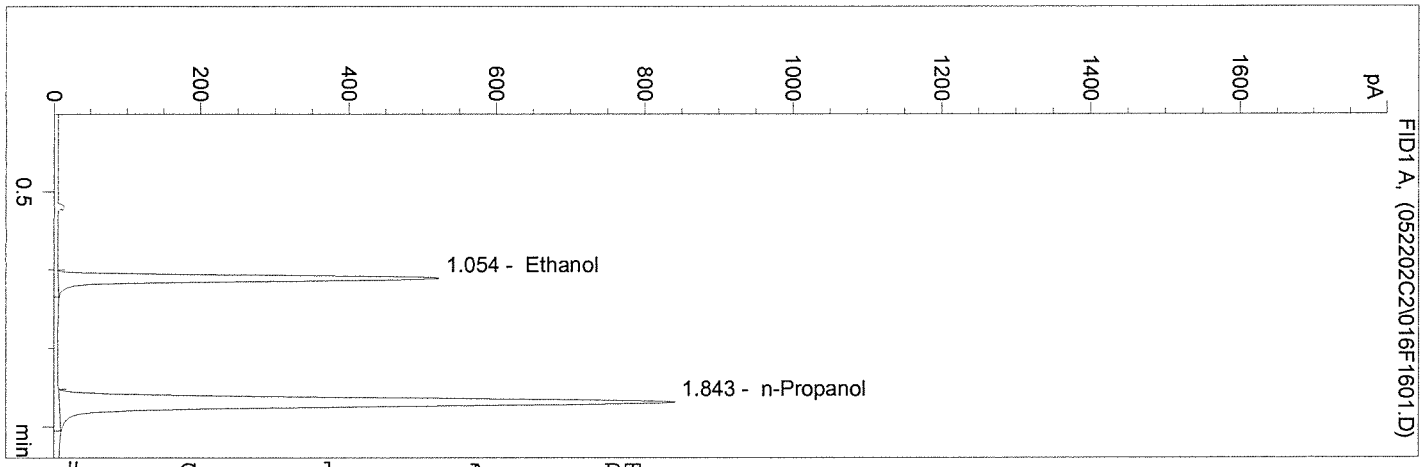
Instrument 2
-ALC1

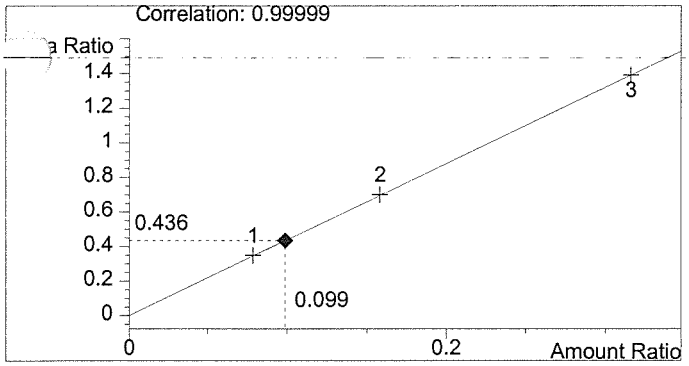
02013 QA 0.08
WP MARSHALL

vial # 16

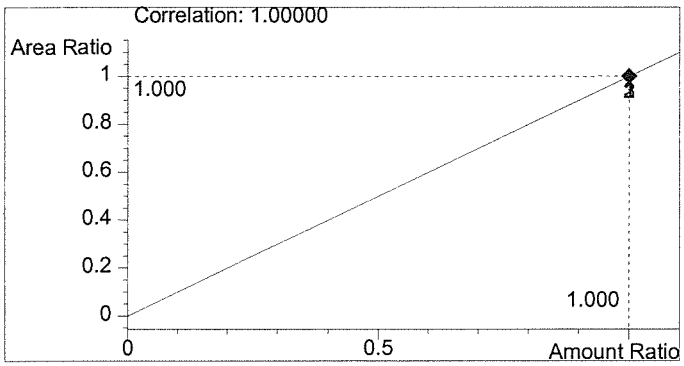


#	Compound	Area	RT
1	Ethanol	1398	1.054
2	n-Propanol	3207	1.843

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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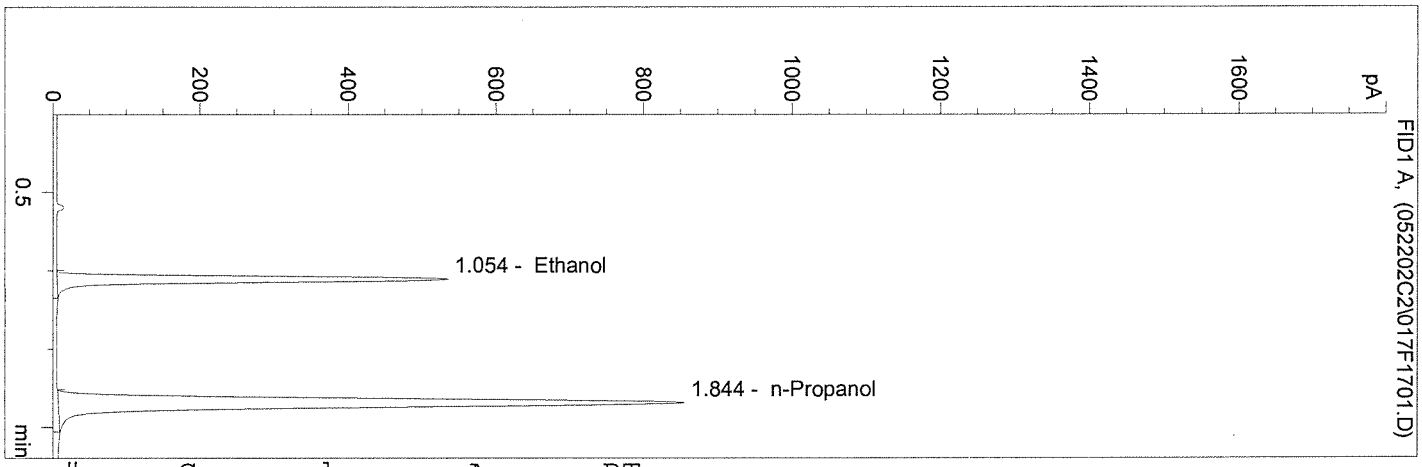
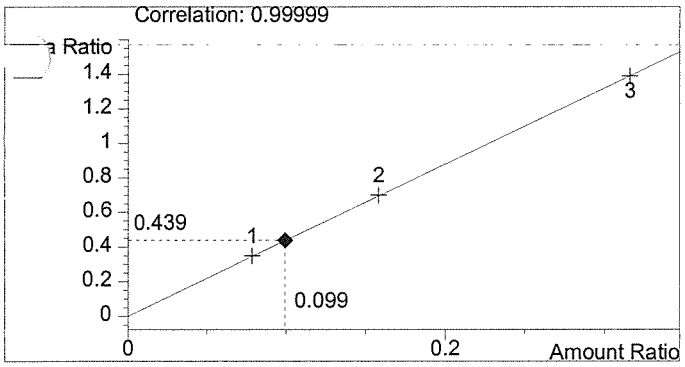
02013 QA 0.08
WP MARSHALL

vial # 17

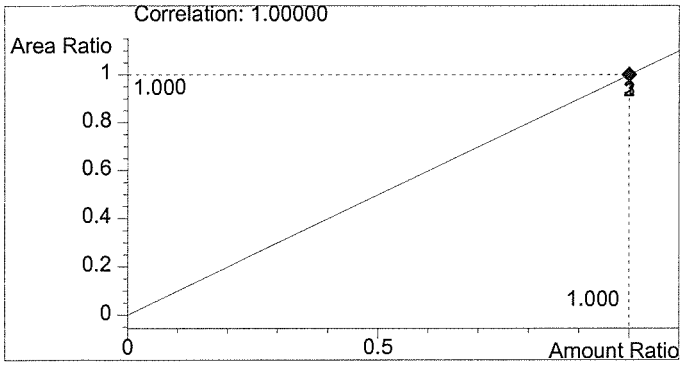


#	Compound	Area	RT
1	Ethanol	1432	1.054
2	n-Propanol	3266	1.844

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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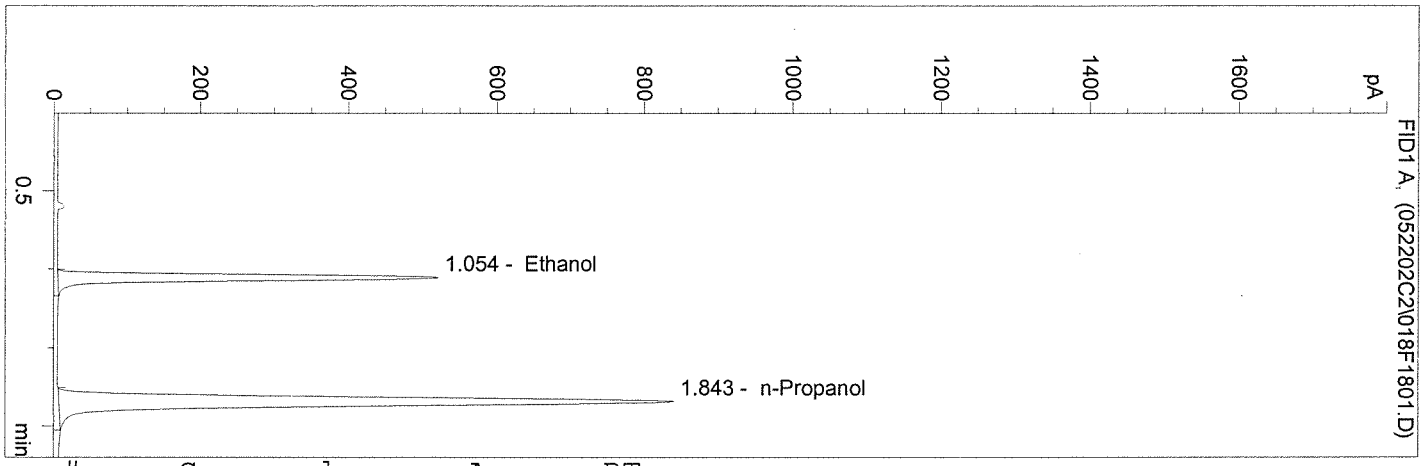
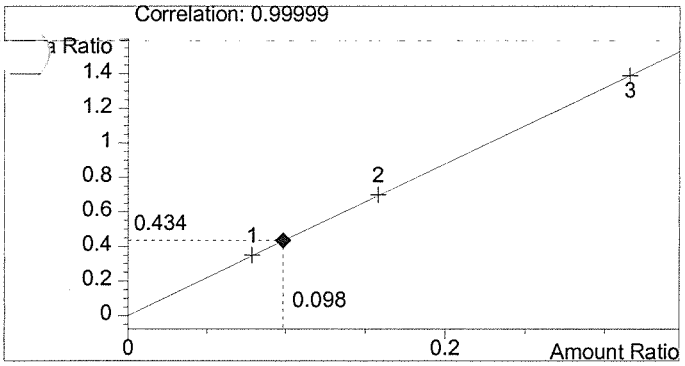
02013 QA 0.08
WP MARSHALL

vial # 18

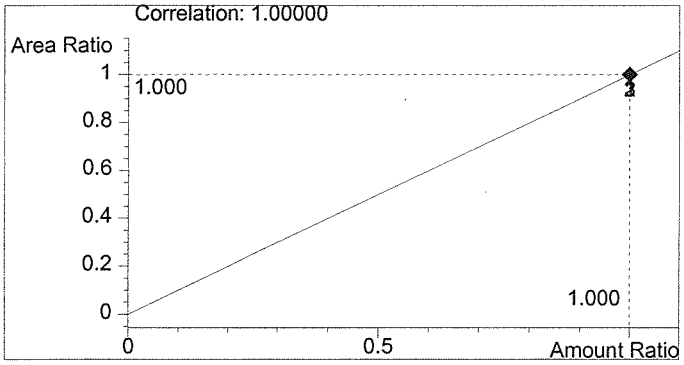


#	Compound	Area	RT
1	Ethanol	1394	1.054
2	n-Propanol	3208	1.843

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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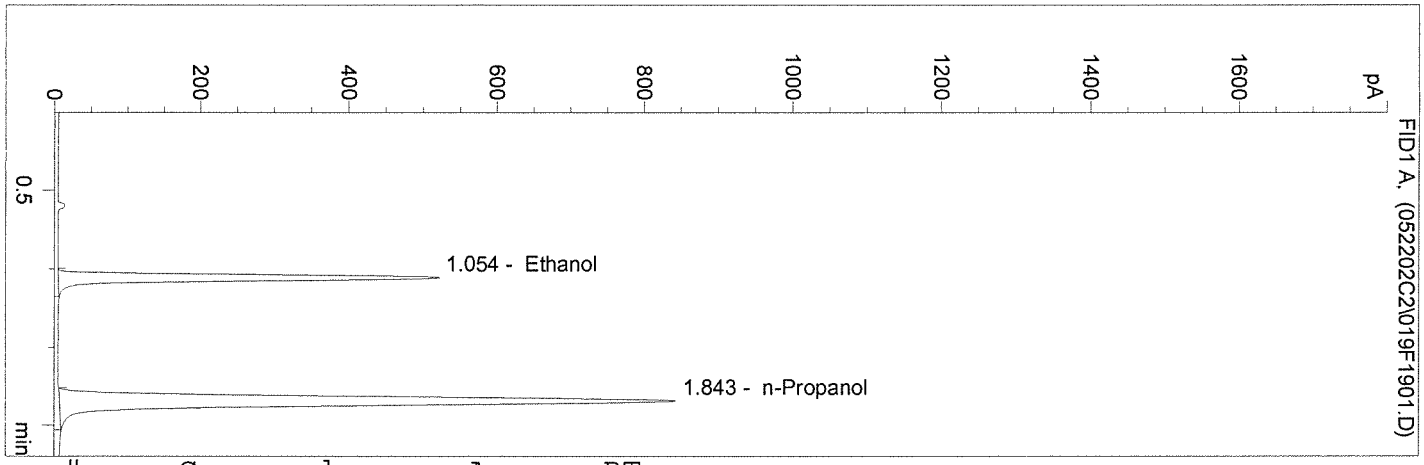
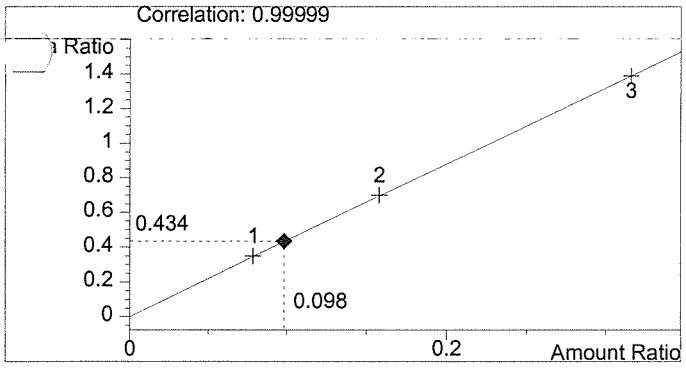
WP MARSHALL

vial # 19

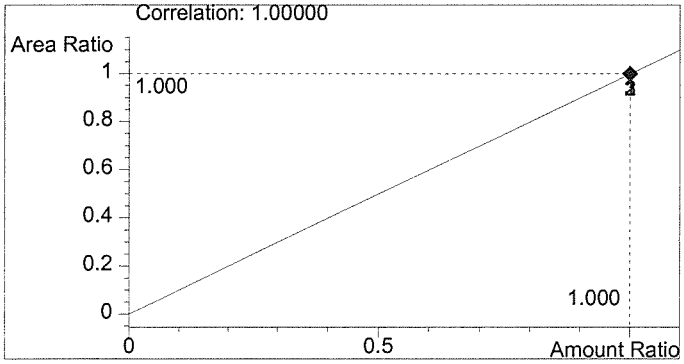


#	Compound	Area	RT
1	Ethanol	1398	1.054
2	n-Propanol	3220	1.843

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

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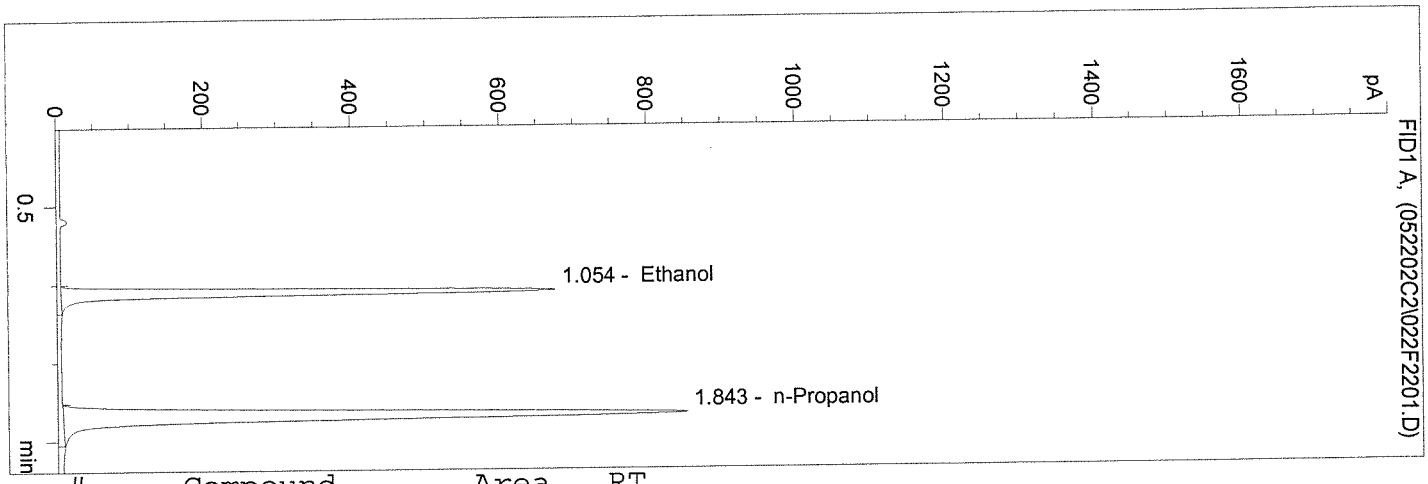
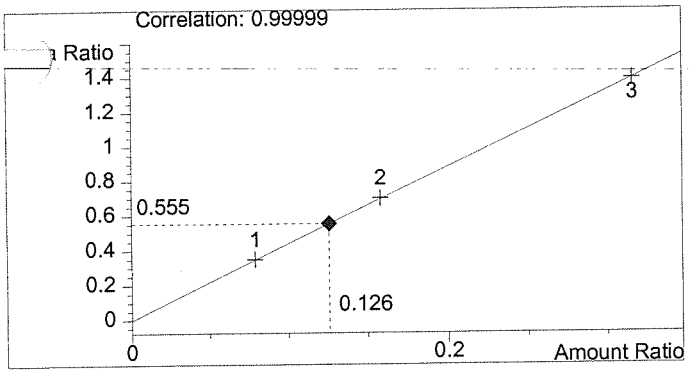
vial # 22

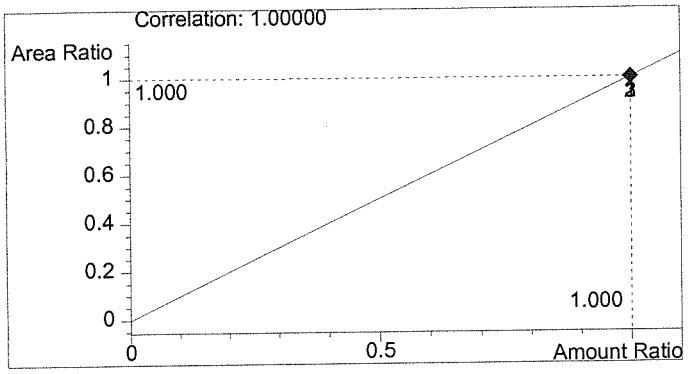


#	Compound	Area	RT
1	Ethanol	1807	1.054
2	n-Propanol	3258	1.843

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 2
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02014 QA 0.10
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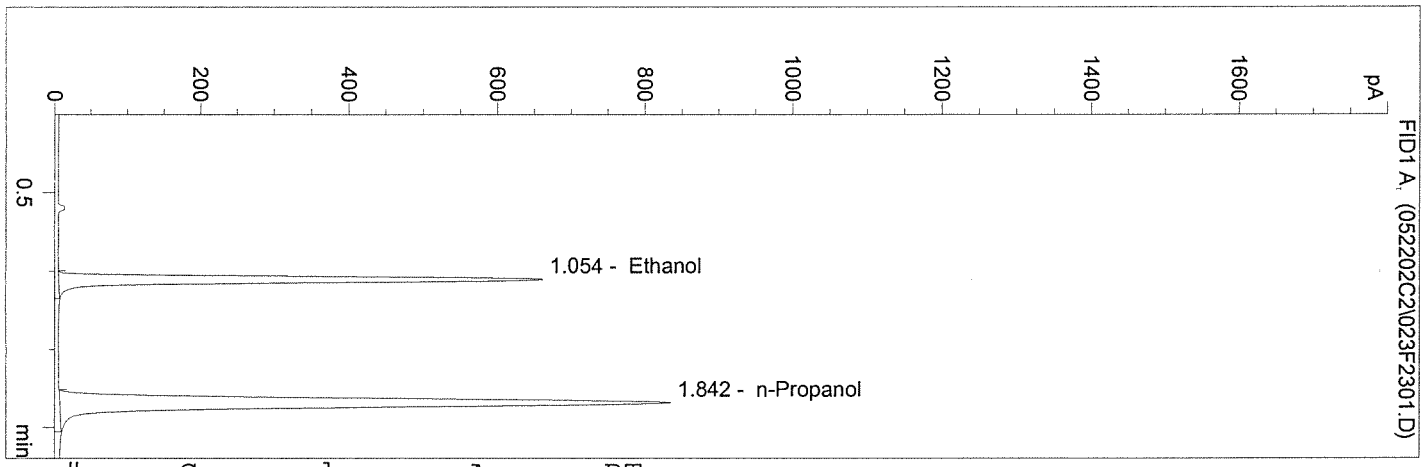
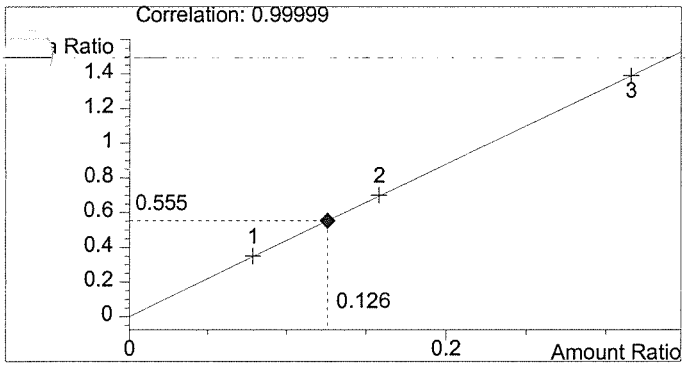
vial # 23

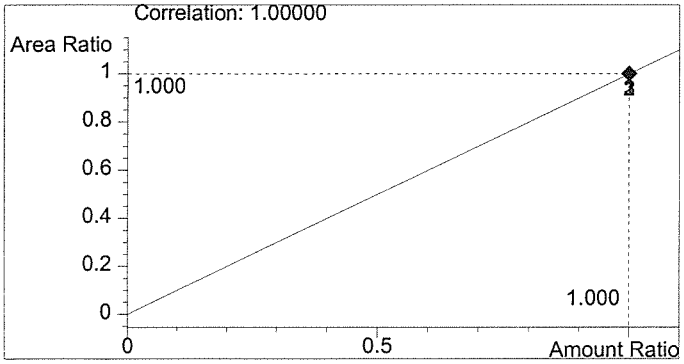


#	Compound	Area	RT
1	Ethanol	1769	1.054
2	n-Propanol	3188	1.842

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

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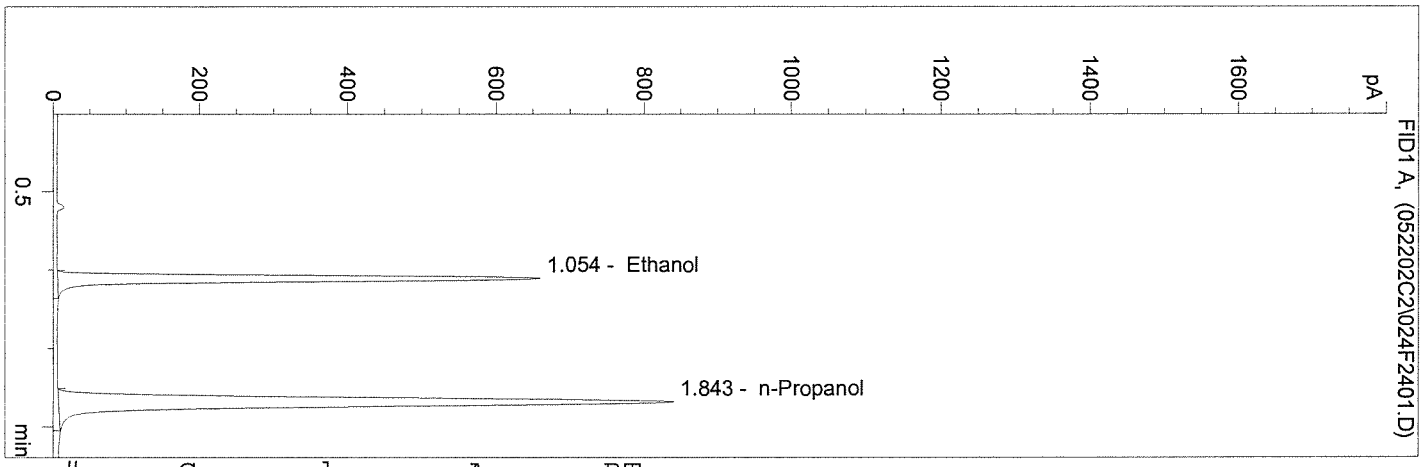
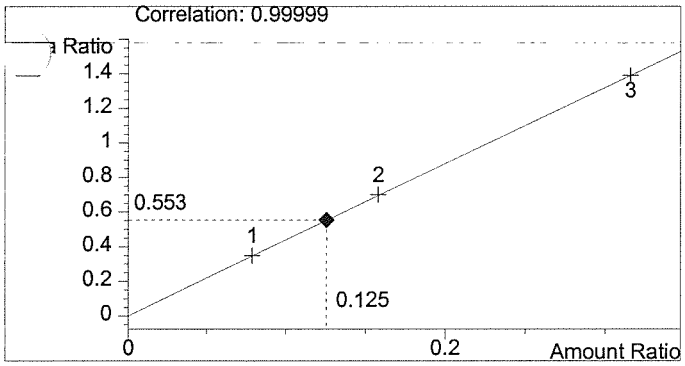
vial # 24

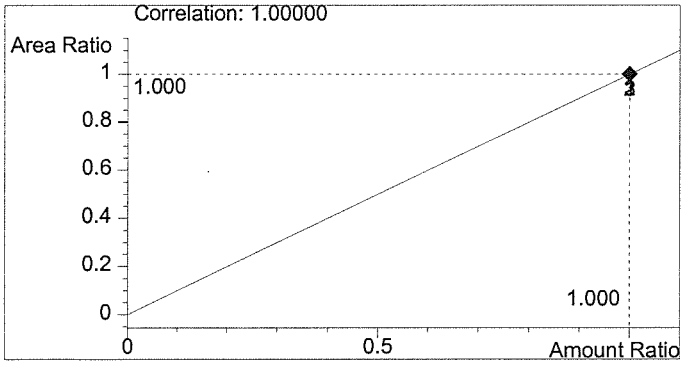


#	Compound	Area	RT
1	Ethanol	1771	1.054
2	n-Propanol	3200	1.843

Totals:



Ethanol 0.125 g/100ml



n-Propanol 1.000 g/100ml

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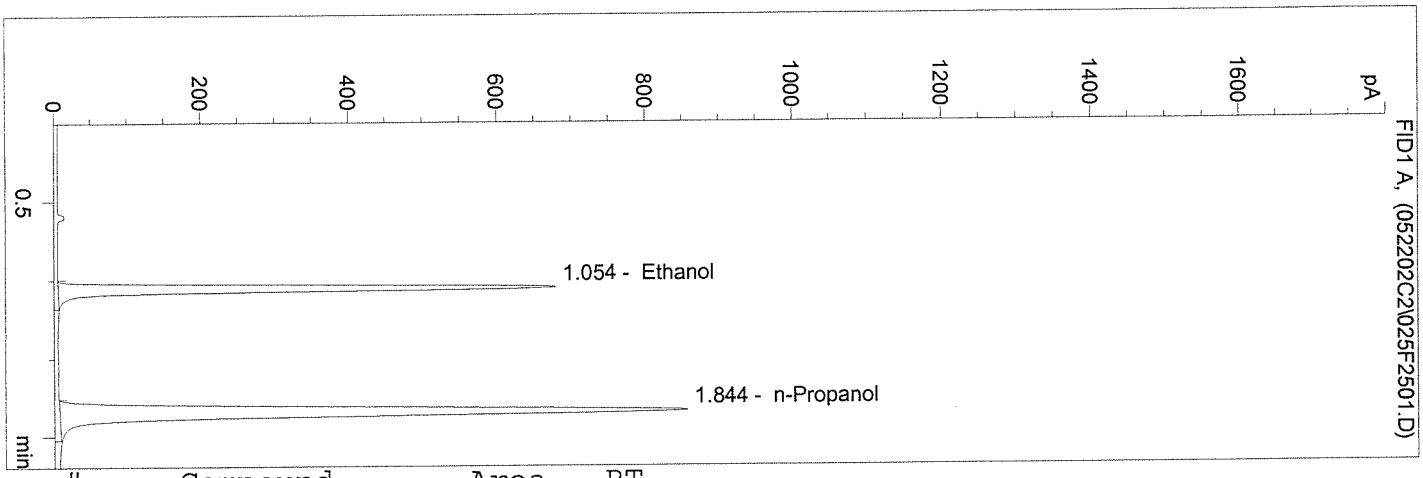
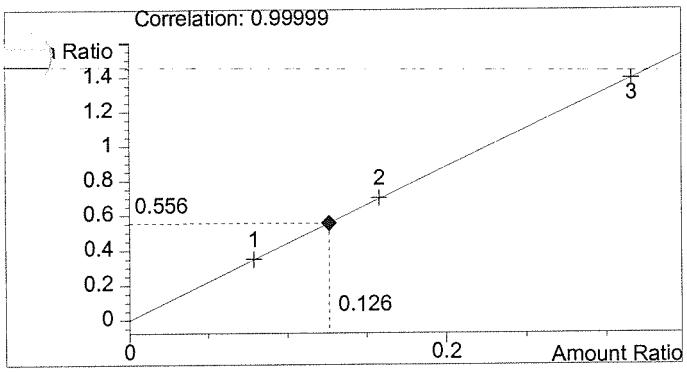
vial # 25

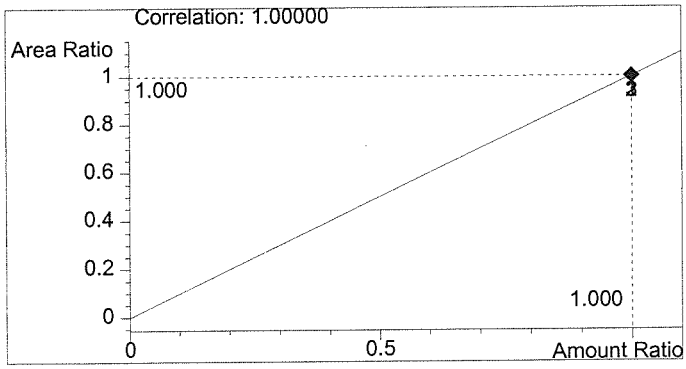


#	Compound	Area	RT
1	Ethanol	1821	1.054
2	n-Propanol	3273	1.844

Totals:



Ethanol 0.126 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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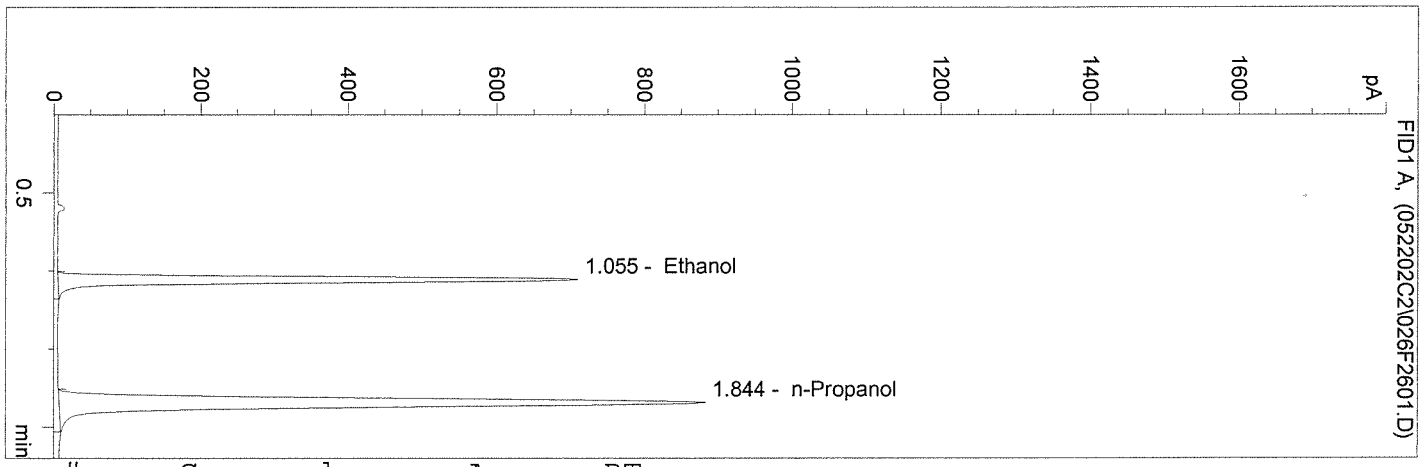
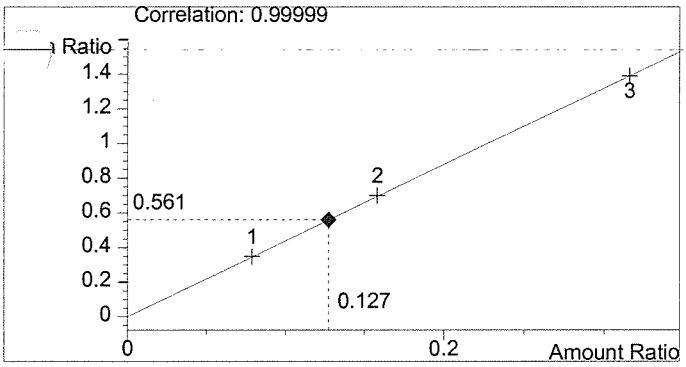
vial # 26

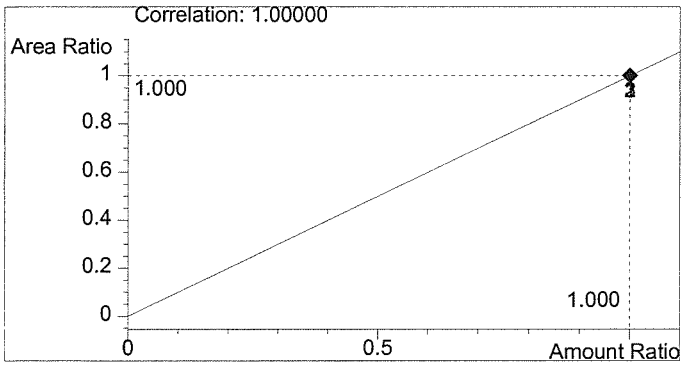


#	Compound	Area	RT
1	Ethanol	1889	1.055
2	n-Propanol	3365	1.844

Totals:



Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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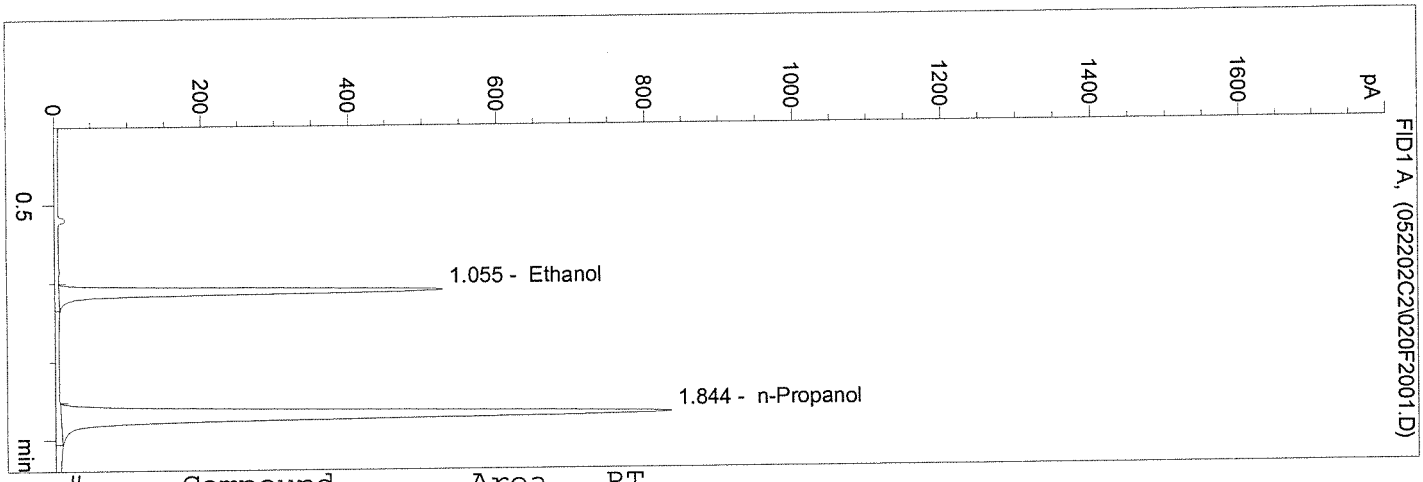
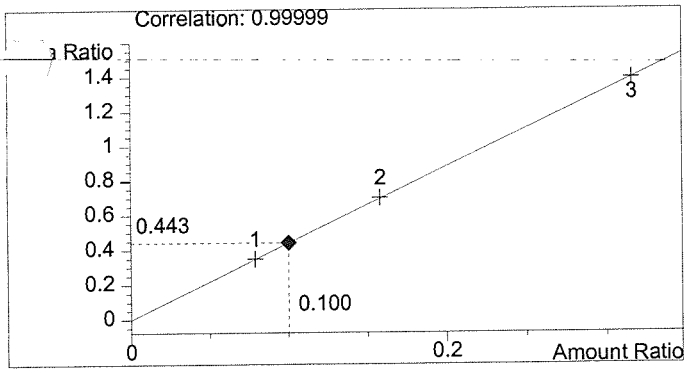
vial # 20

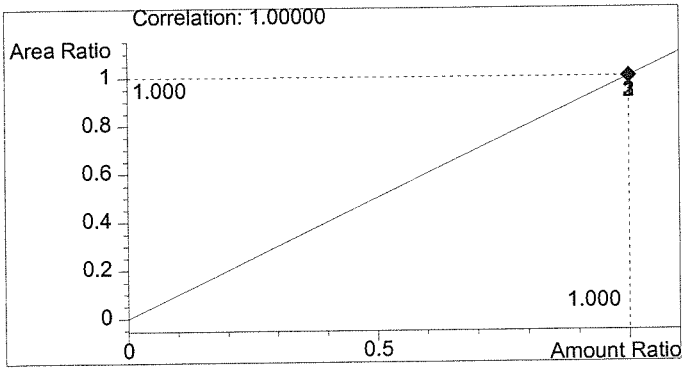


#	Compound	Area	RT
1	Ethanol	1408	1.055
2	n-Propanol	3181	1.844

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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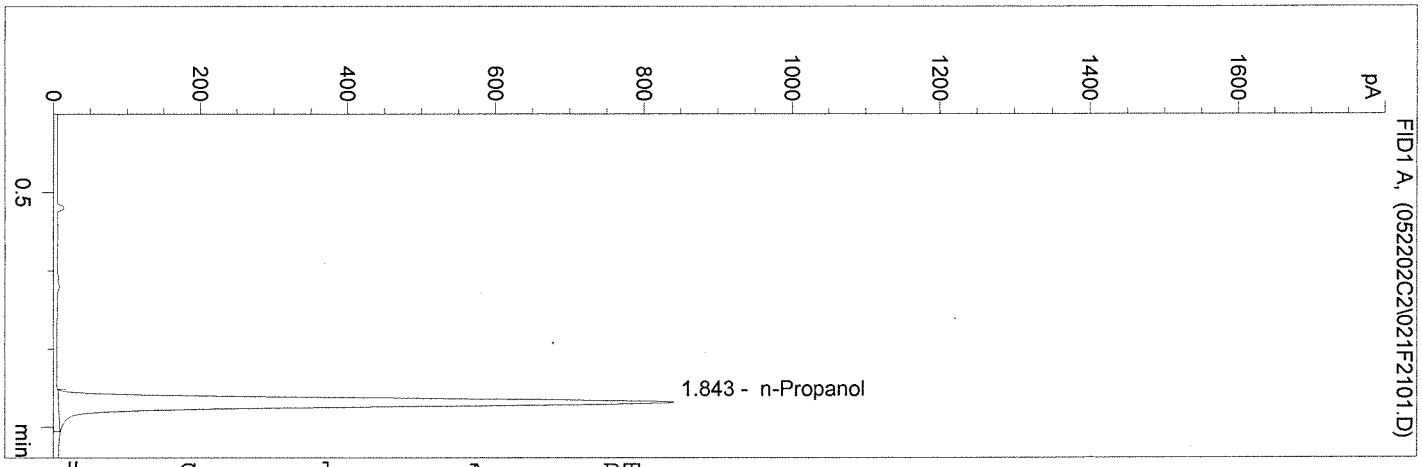
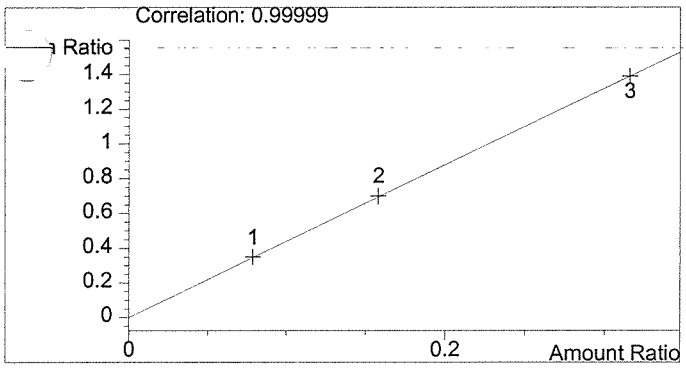
vial # 21

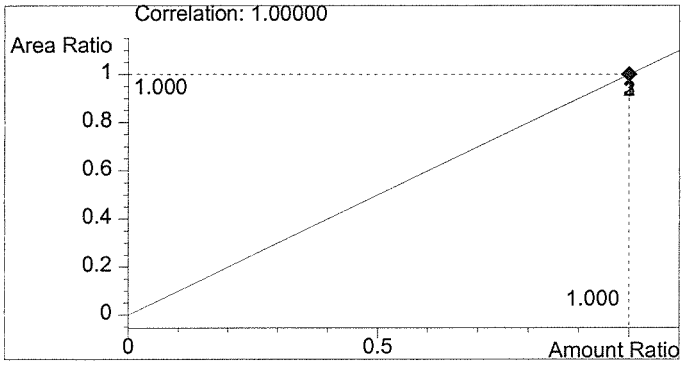


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3207	1.843

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
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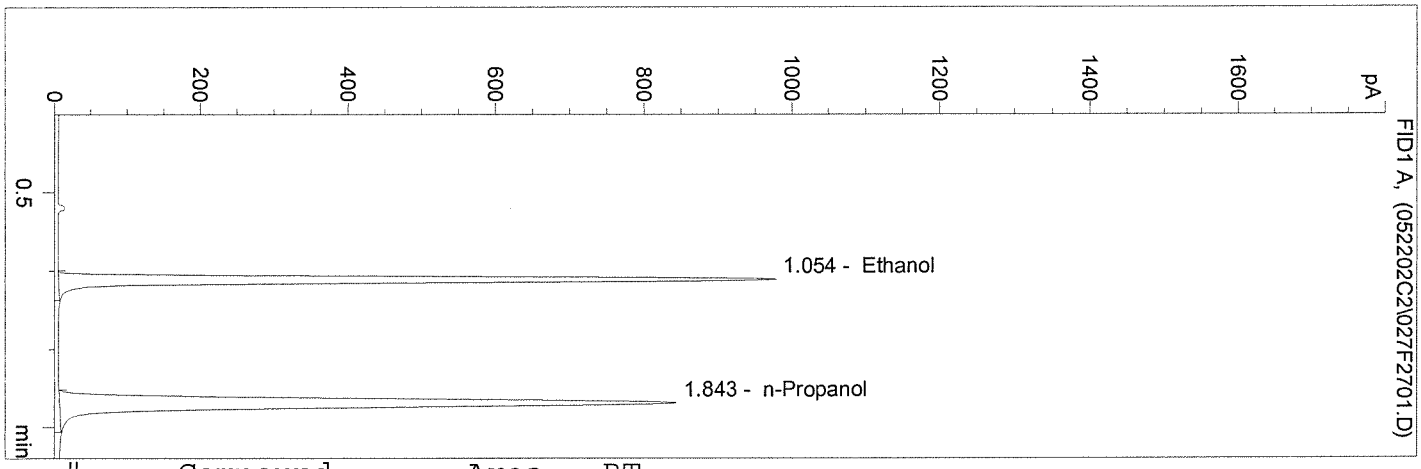
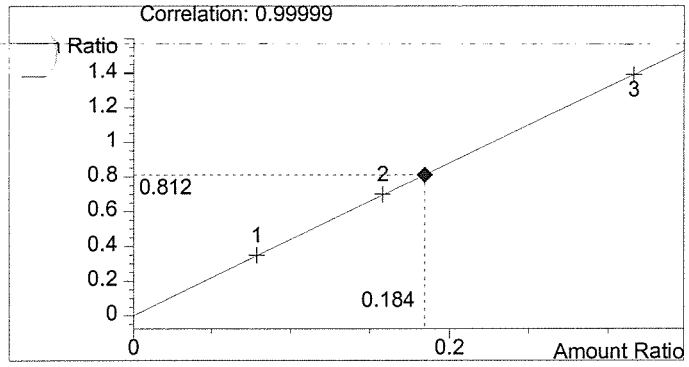
WP MARSHALL

vial # 27

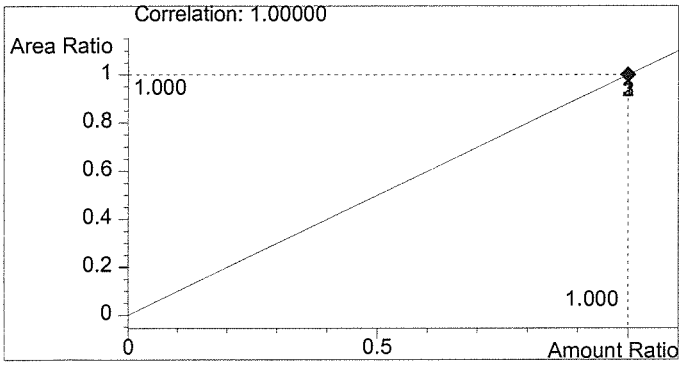


#	Compound	Area	RT
1	Ethanol	2611	1.054
2	n-Propanol	3214	1.843

Totals:



Ethanol 0.184 g/100ml



n-Propanol 1.000 g/100ml

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WASHINGTON STATE TOXICOLOGY LABORATORY

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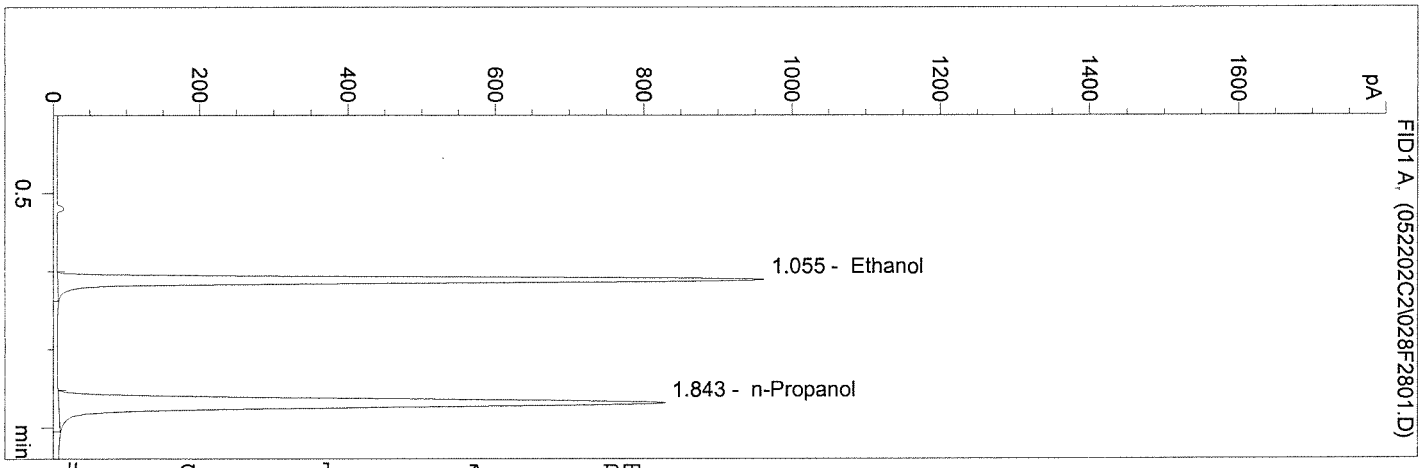
Instrument 2
-ALC1

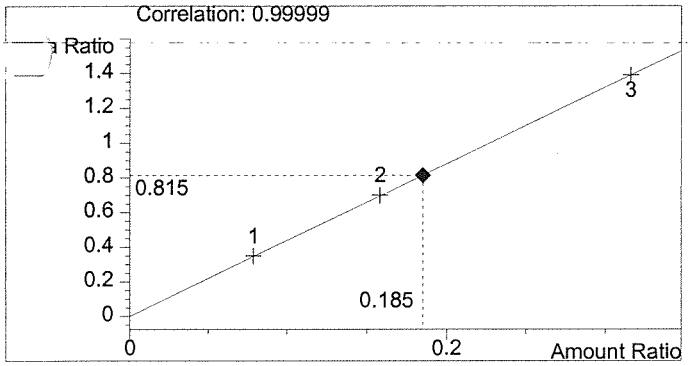
02015 QA 0.15
WP MARSHALL

vial # 28

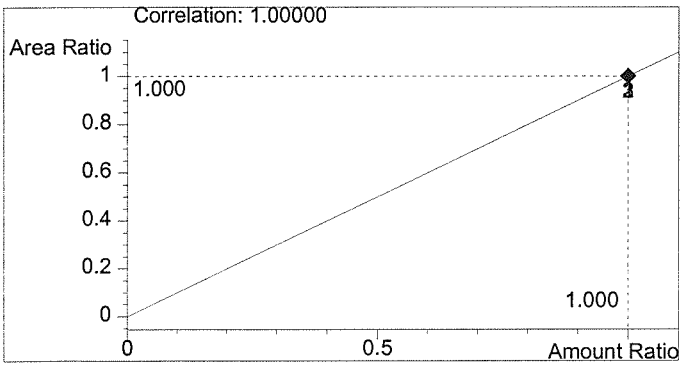


#	Compound	Area	RT
1	Ethanol	2571	1.055
2	n-Propanol	3155	1.843

Totals:



Ethanol 0.185 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
-ALC1

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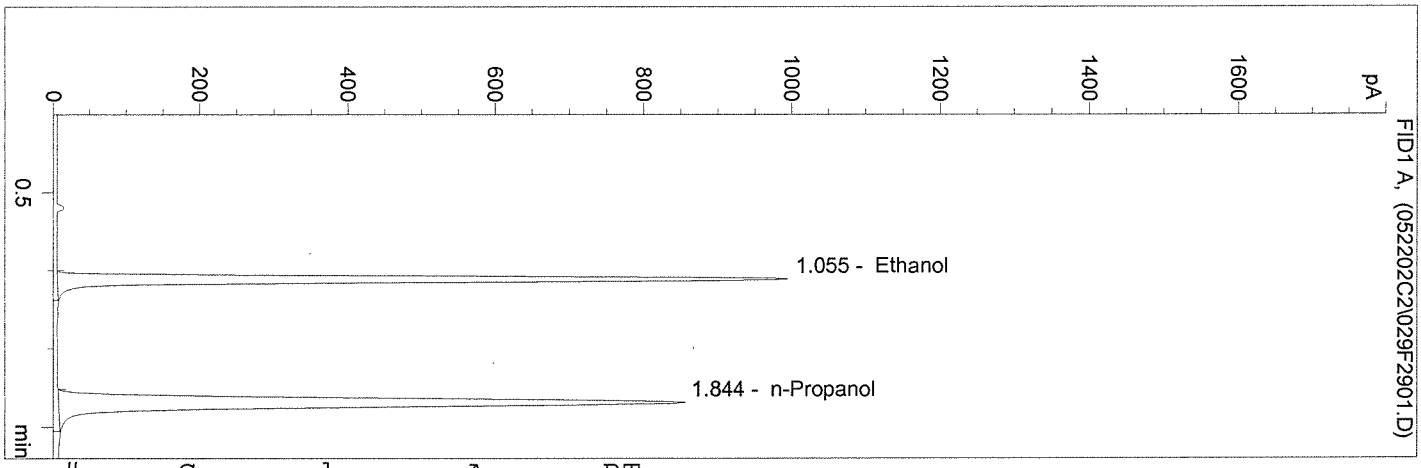
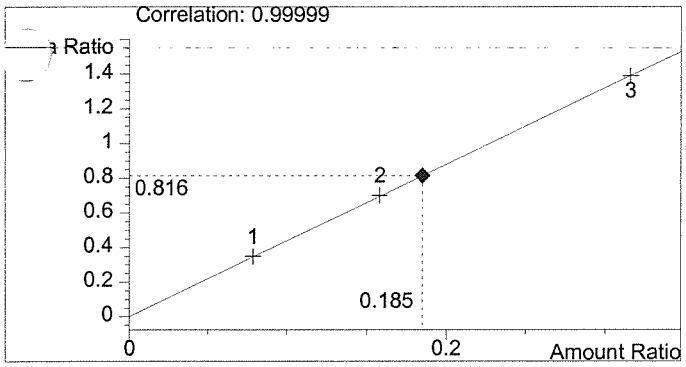
WP MARSHALL

vial # 29

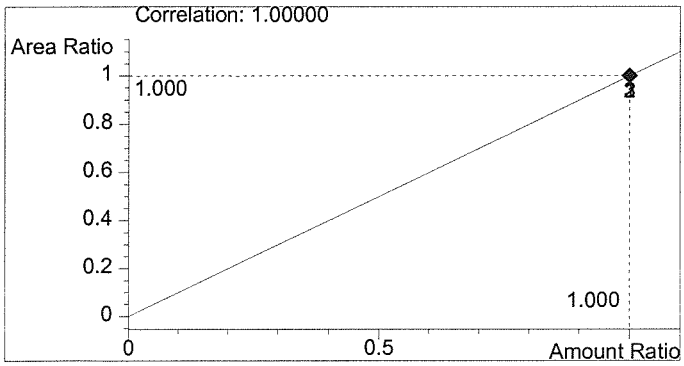


#	Compound	Area	RT
1	Ethanol	2661	1.055
2	n-Propanol	3262	1.844

Totals:



Ethanol 0.185 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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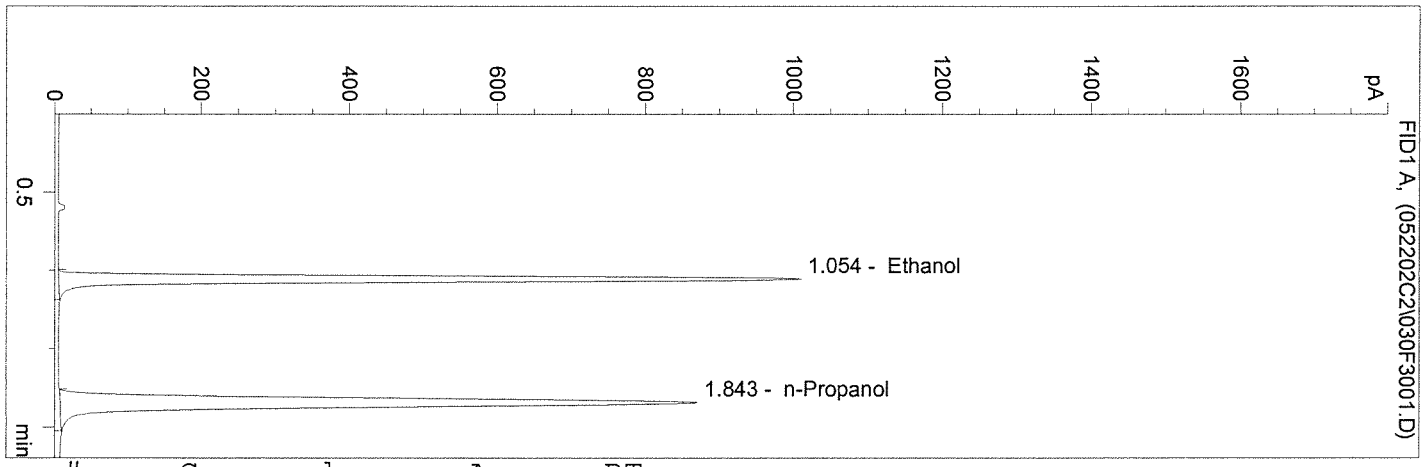
Instrument 2
-ALC1

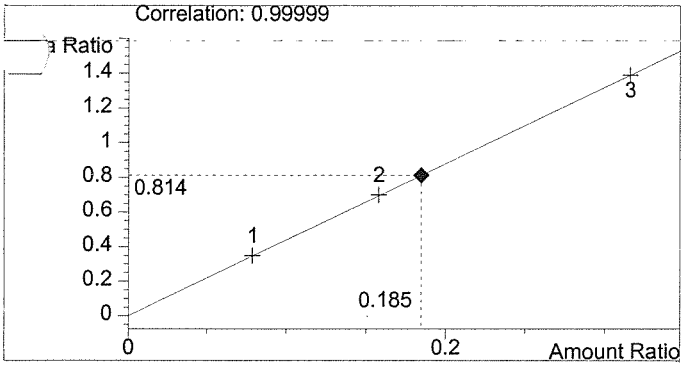
02015 QA 0.15
WP MARSHALL

vial # 30

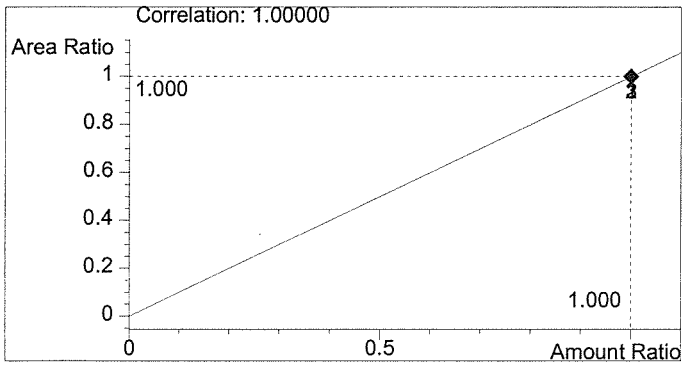


#	Compound	Area	RT
1	Ethanol	2703	1.054
2	n-Propanol	3322	1.843

Totals:



Ethanol 0.185 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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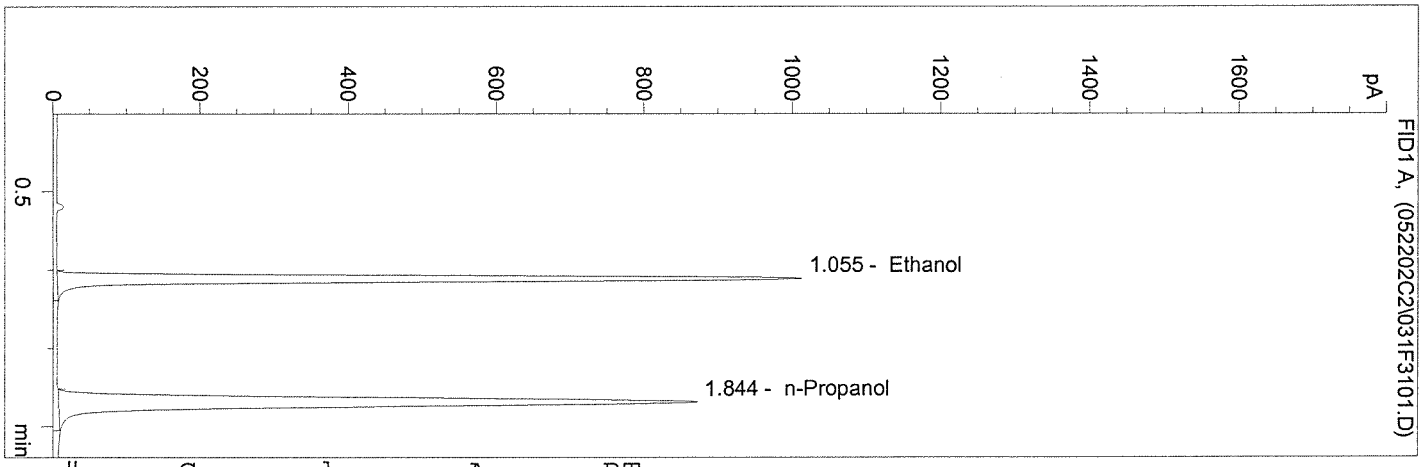
Instrument 2
-ALC1

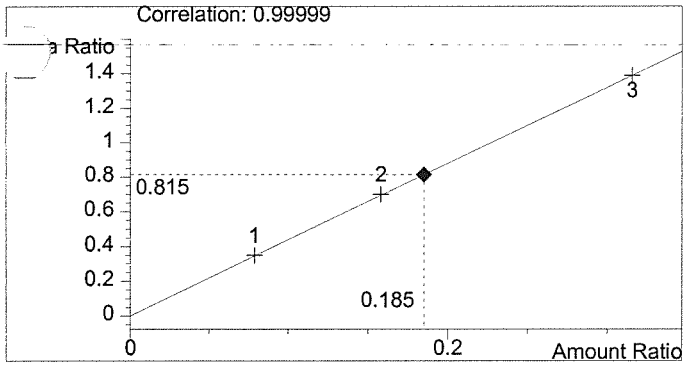
02015 QA 0.15
WP MARSHALL

vial # 31

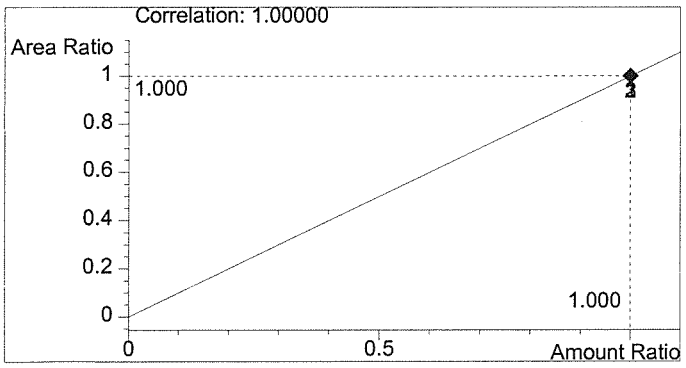


#	Compound	Area	RT
1	Ethanol	2716	1.055
2	n-Propanol	3332	1.844

Totals:



Ethanol 0.185 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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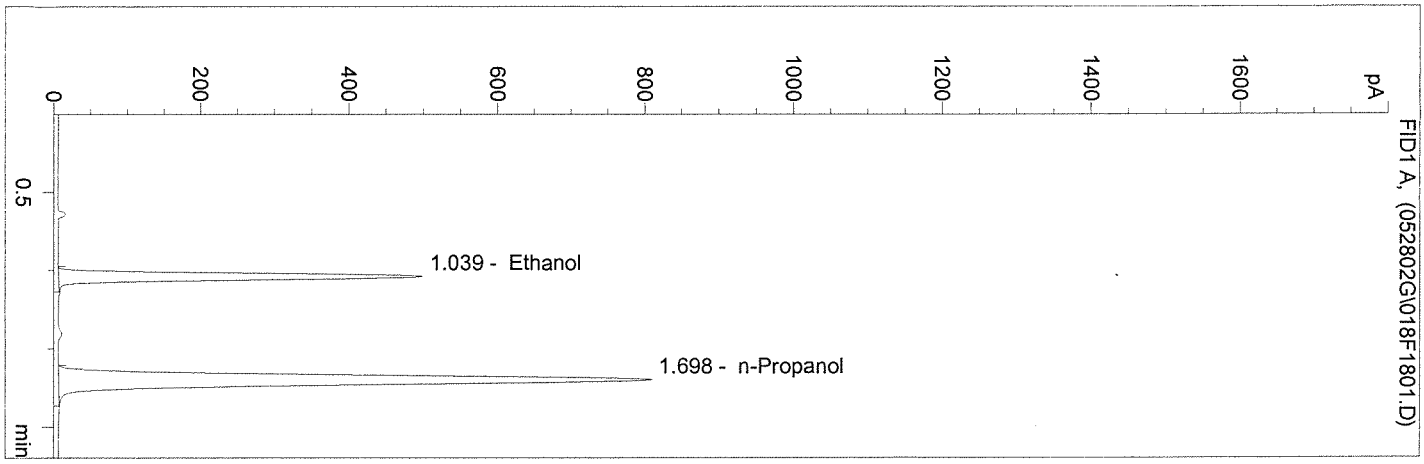
Instrument 1
ALC1

Cal 3010

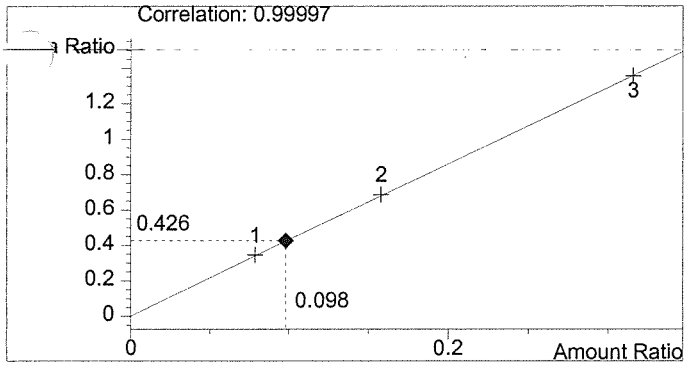
QASOL 02013 0.08
GENE SCHWILKE

vial # 18

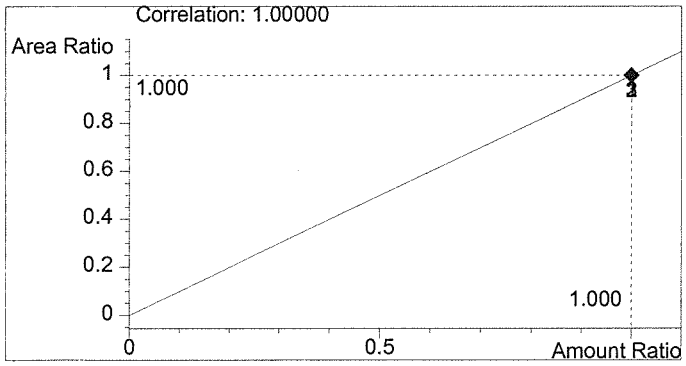


#	Compound	Area	RT
1	Ethanol	1410	1.039
2	n-Propanol	3310	1.698

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

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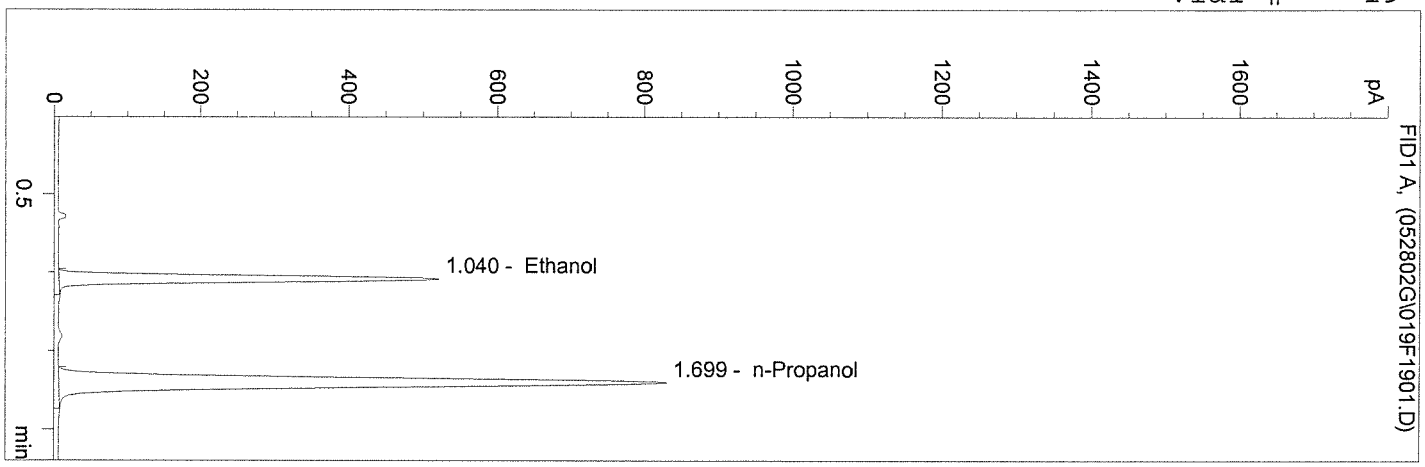
Instrument 1
ALC1

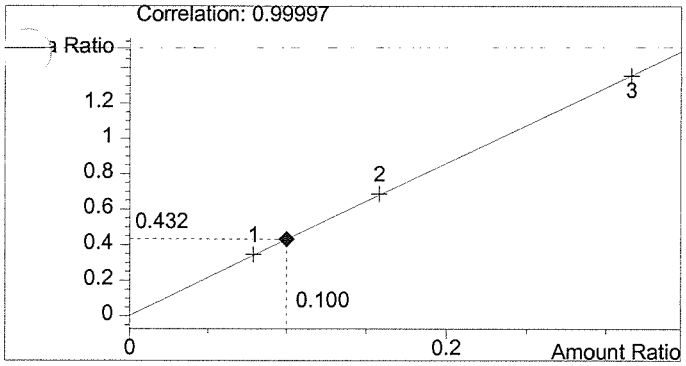
QASOL 02013 0.08
GENE SCHWILKE

vial # 19

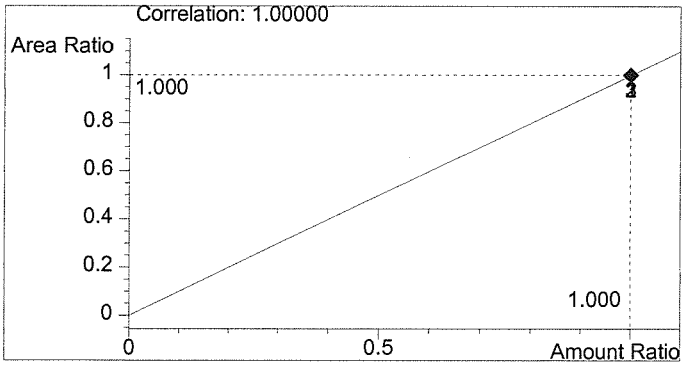


#	Compound	Area	RT
1	Ethanol	1466	1.040
2	n-Propanol	3391	1.699

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

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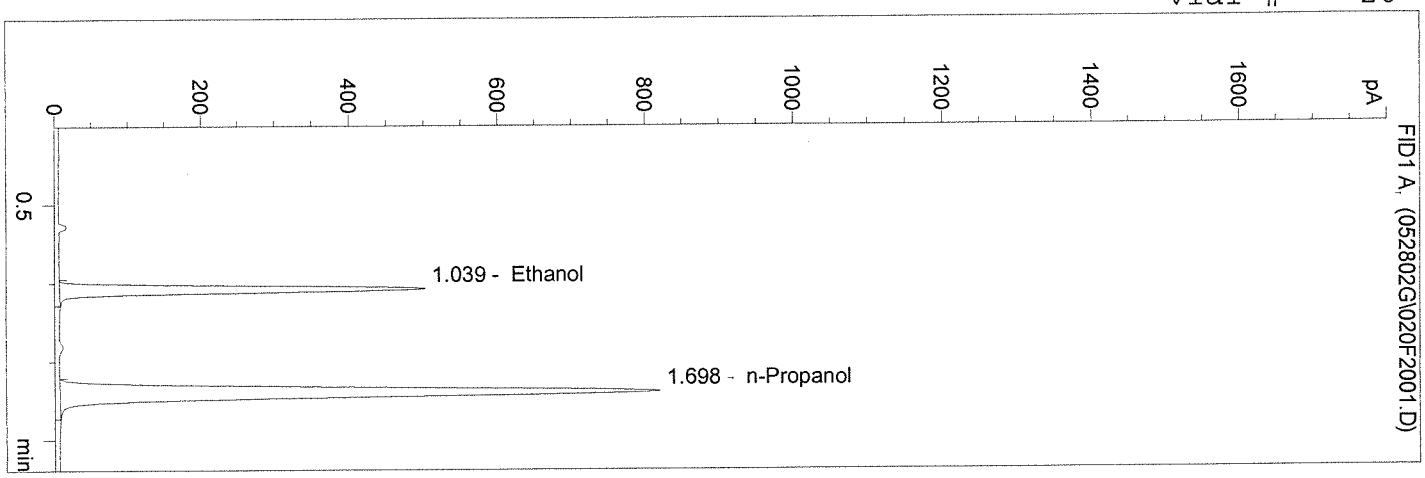
Instrument 1
-ALC1

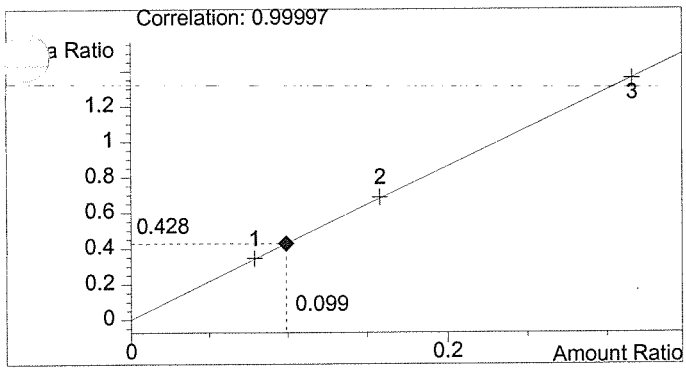
QASOL 02013 0.08
GENE SCHWILKE

vial # 20

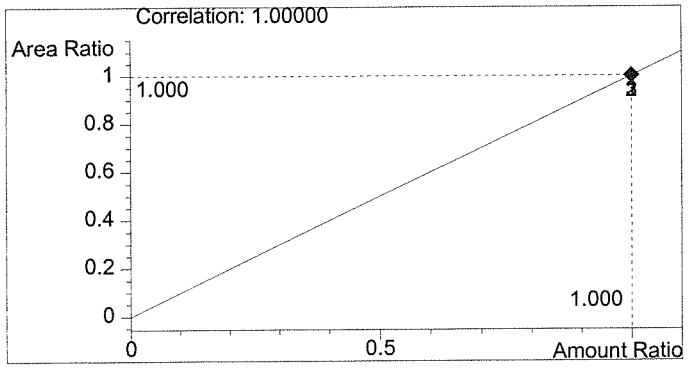


#	Compound	Area	RT
1	Ethanol	1441	1.039
2	n-Propanol	3367	1.698

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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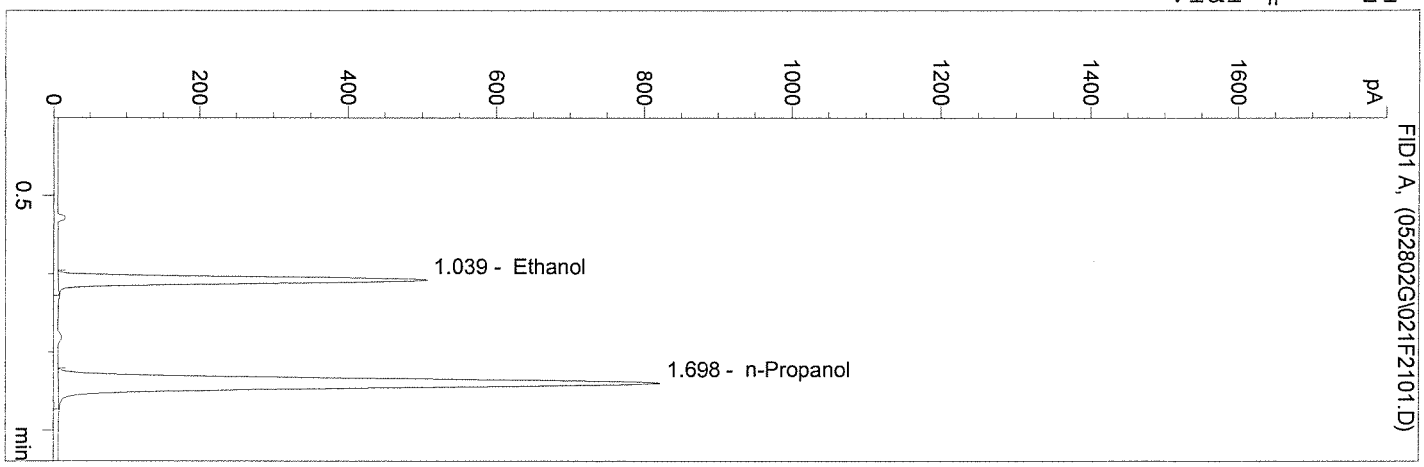
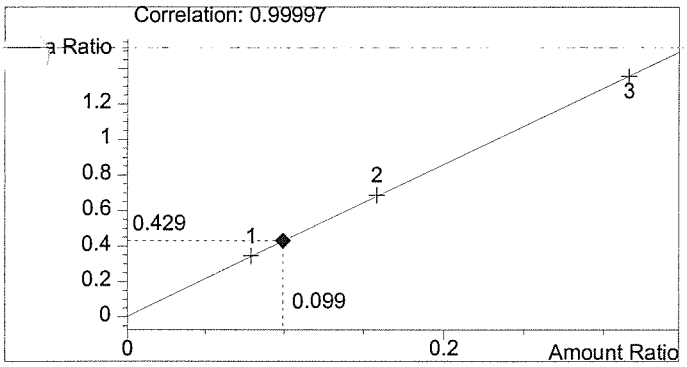
Instrument 1
-ALC1

QASOL 02013 0.08
GENE SCHWILKE

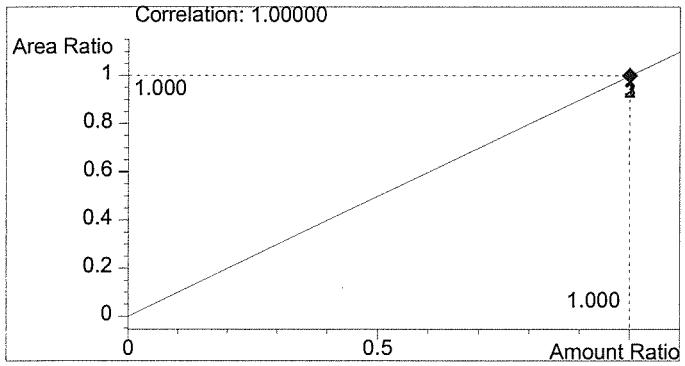
vial # 21



#	Compound	Area	RT
1	Ethanol	1447	1.039
2	n-Propanol	3371	1.698
Totals:			



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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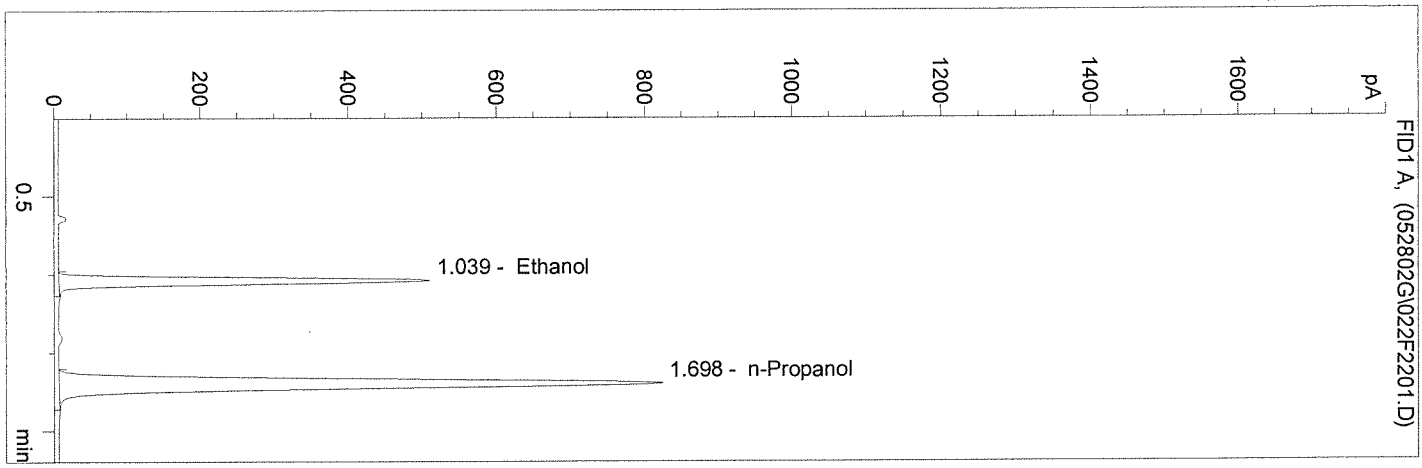
Instrument 1
-ALC1

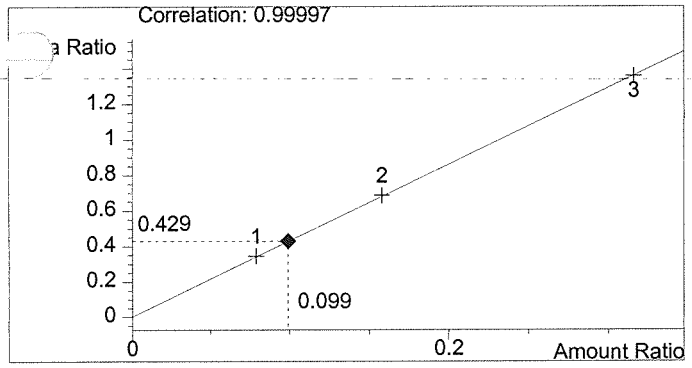
QASOL 02013 0.08
GENE SCHWILKE

vial # 22

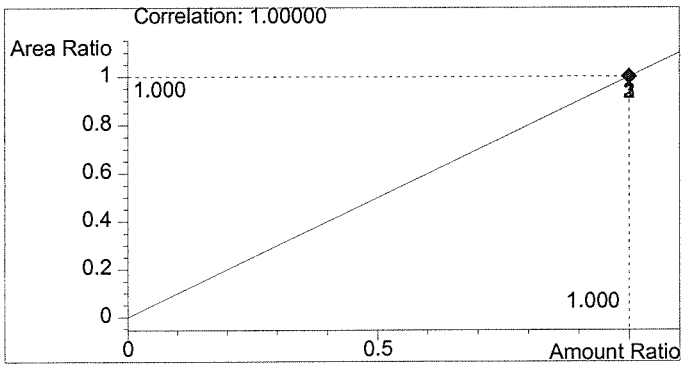


#	Compound	Area	RT
1	Ethanol	1449	1.039
2	n-Propanol	3374	1.698

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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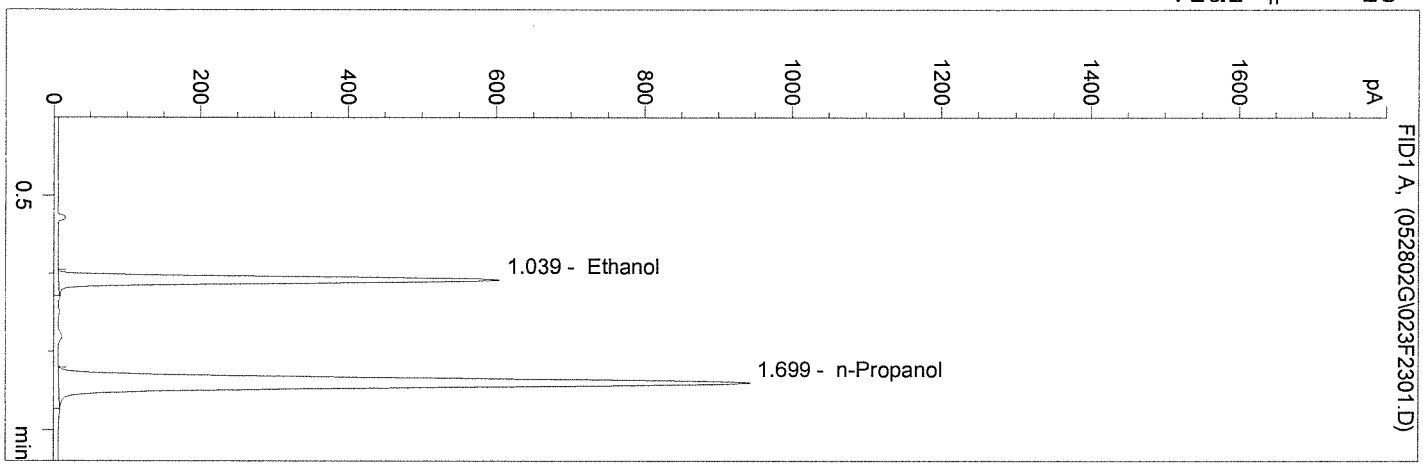
Instrument 1
-ALC1

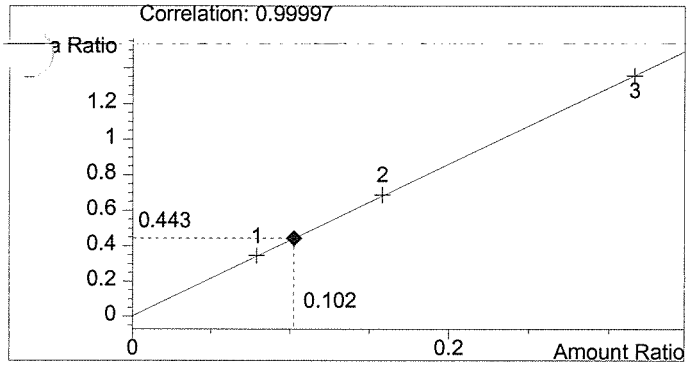
CAP 0.100
GENE SCHWILKE

vial # 23

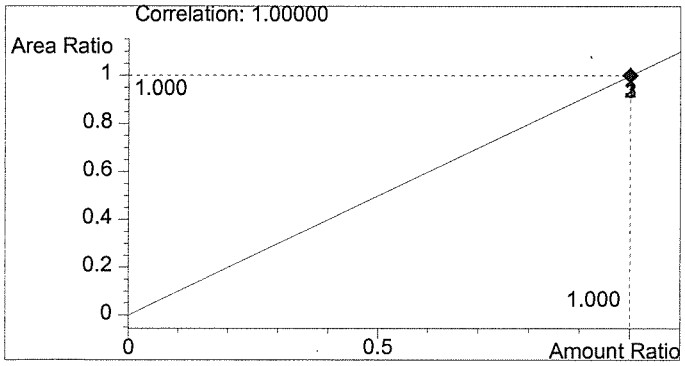


#	Compound	Area	RT
1	Ethanol	1712	1.039
2	n-Propanol	3864	1.699

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

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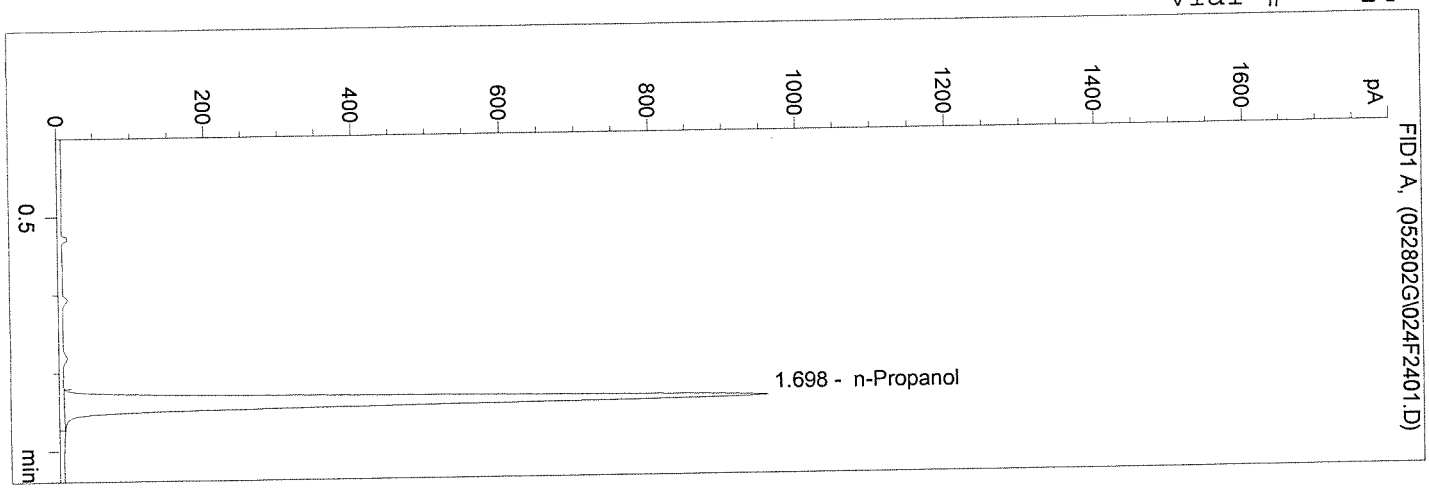
Instrument 1
-ALC1

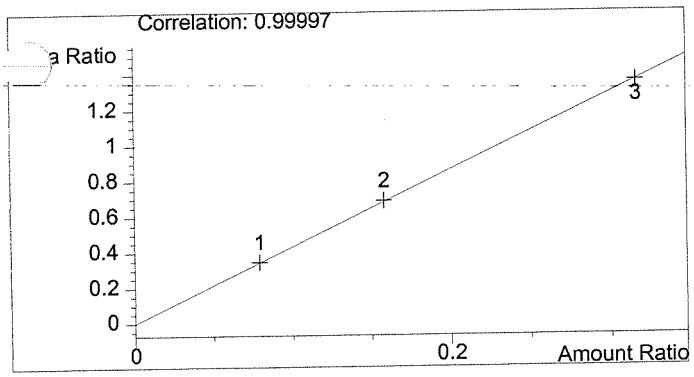
BLANK
GENE SCHWILKE

vial # 24

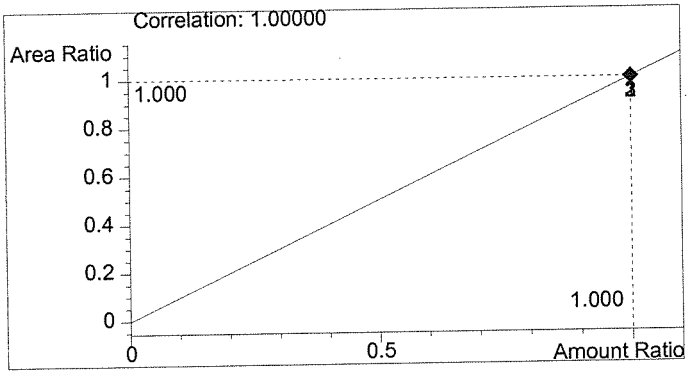


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3912	1.698

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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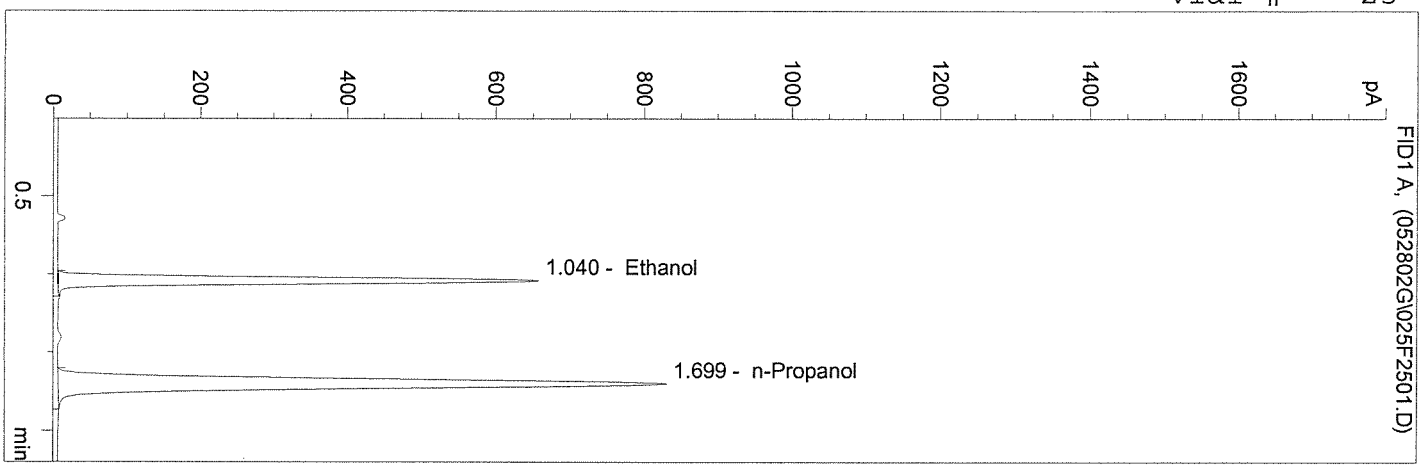
Instrument 1
-ALC1

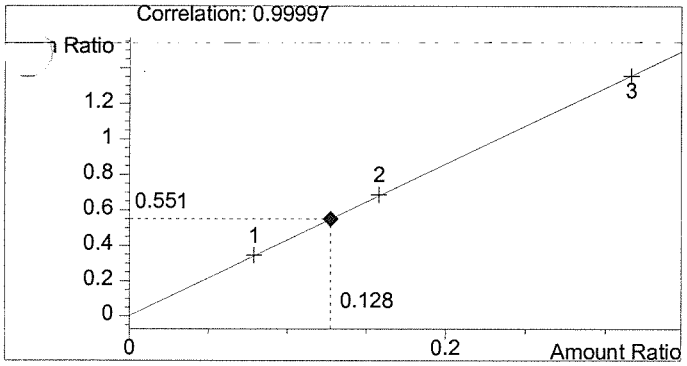
Cal 3010

QASOL 02014 0.10
GENE SCHWILKE

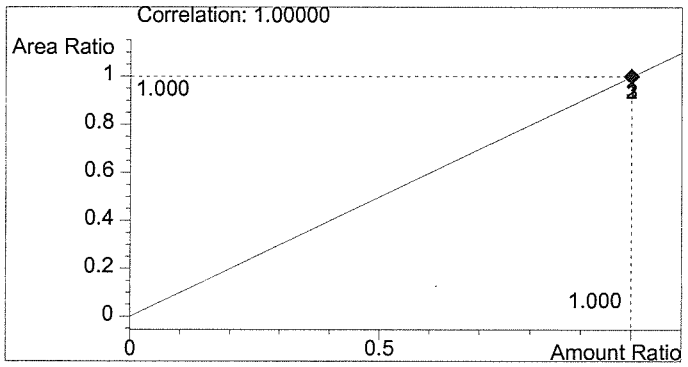
vial # 25



#	Compound	Area	RT
1	Ethanol	1869	1.040
2	n-Propanol	3394	1.699
Totals:			



Ethanol 0.128 g/100ml



n-Propanol 1.000 g/100ml

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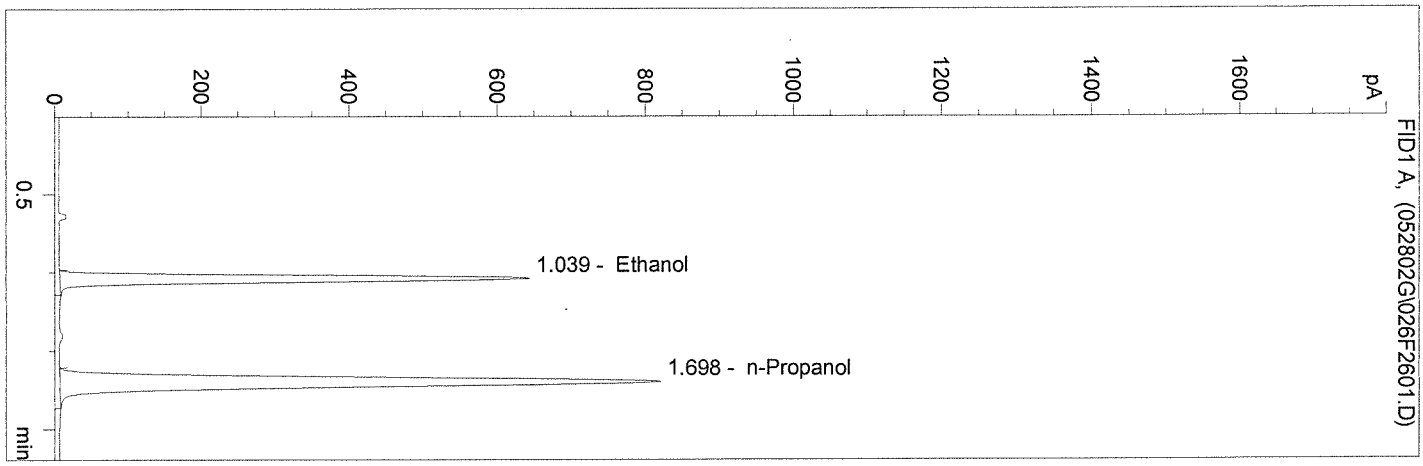
Instrument 1
-ALC1

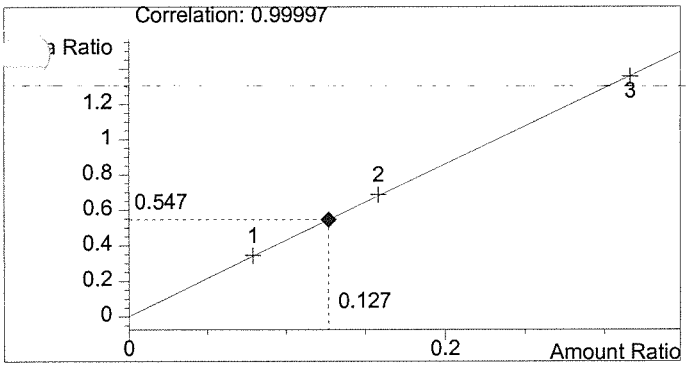
QASOL 02014 0.10
GENE SCHWILKE

vial # 26

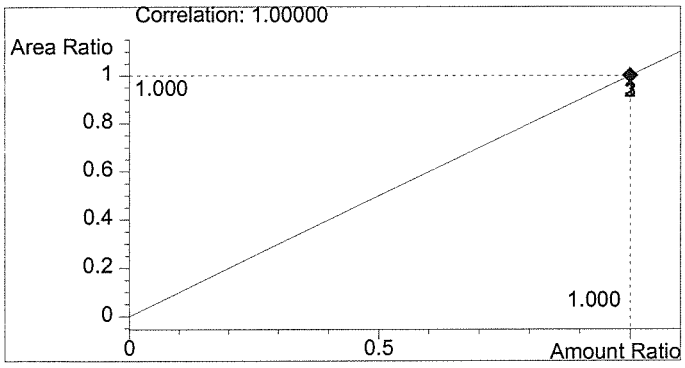


#	Compound	Area	RT
1	Ethanol	1848	1.039
2	n-Propanol	3376	1.698

Totals:



Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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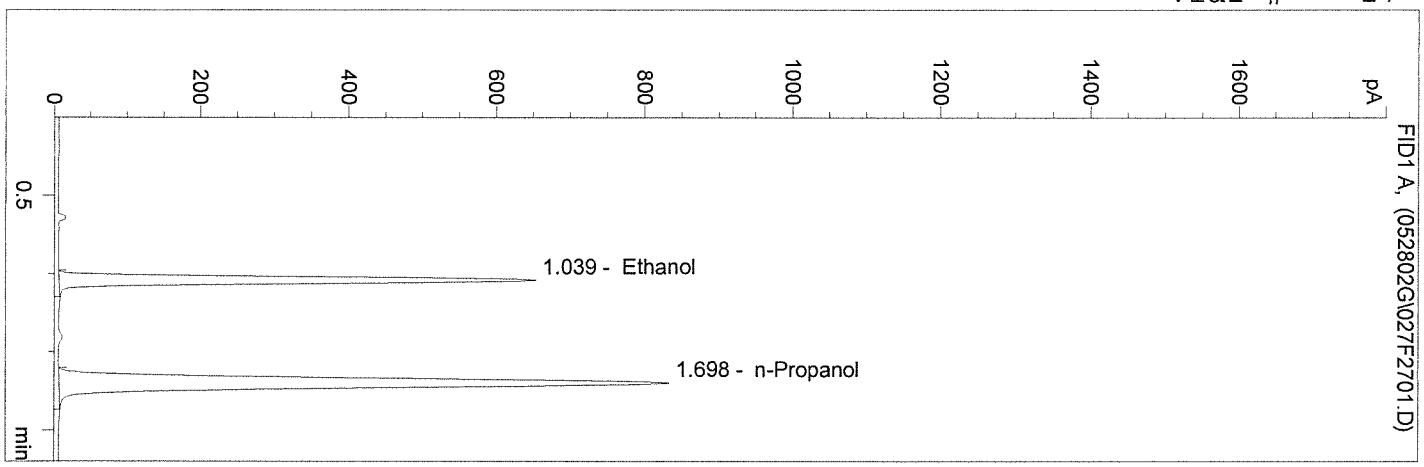
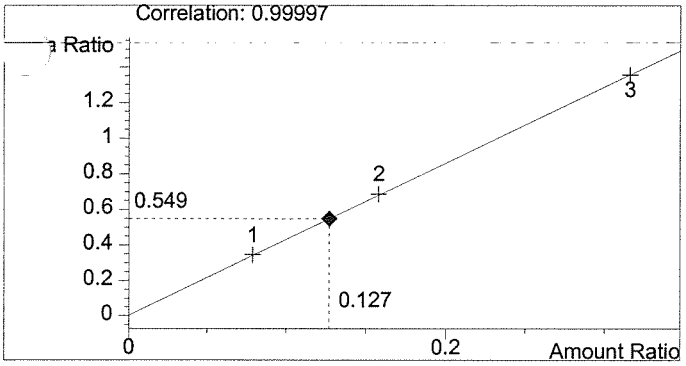
Instrument 1
-ALC1

QASOL 02014 0.10
GENE SCHWILKE

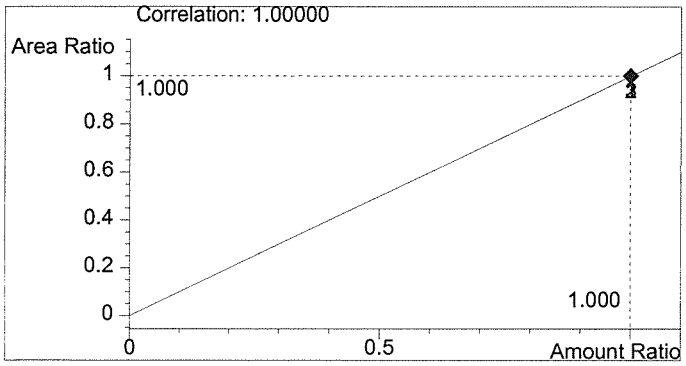
vial # 27



#	Compound	Area	RT
1	Ethanol	1874	1.039
2	n-Propanol	3416	1.698
Totals:			



Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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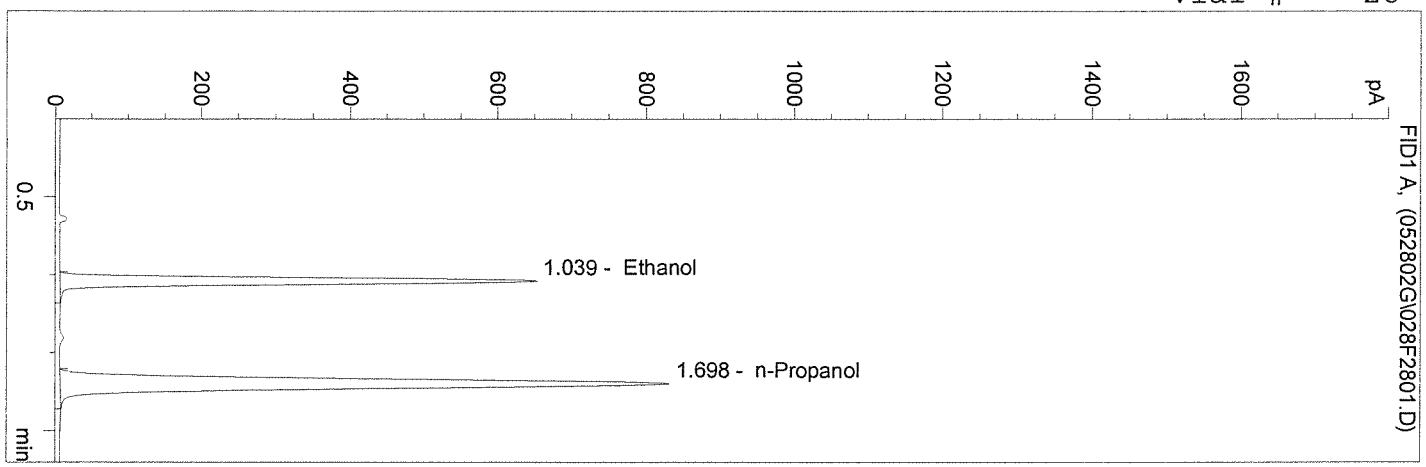
Instrument 1
ALC1

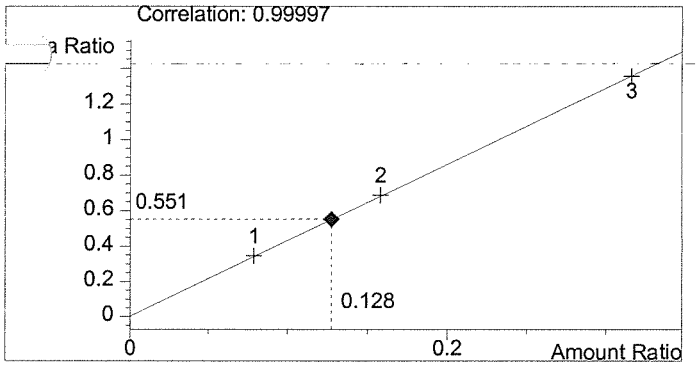
QASOL 02014 0.10
GENE SCHWILKE

vial # 28

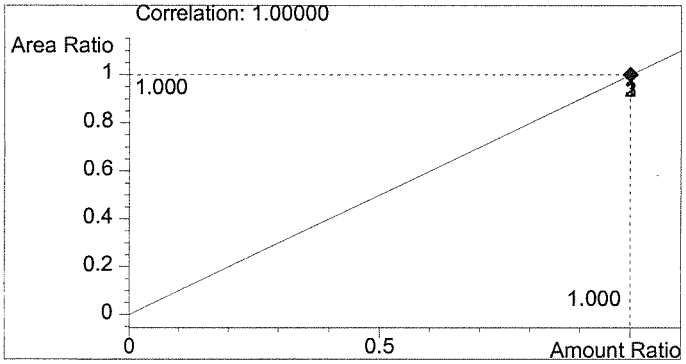


#	Compound	Area	RT
1	Ethanol	1879	1.039
2	n-Propanol	3409	1.698

Totals:



Ethanol 0.128 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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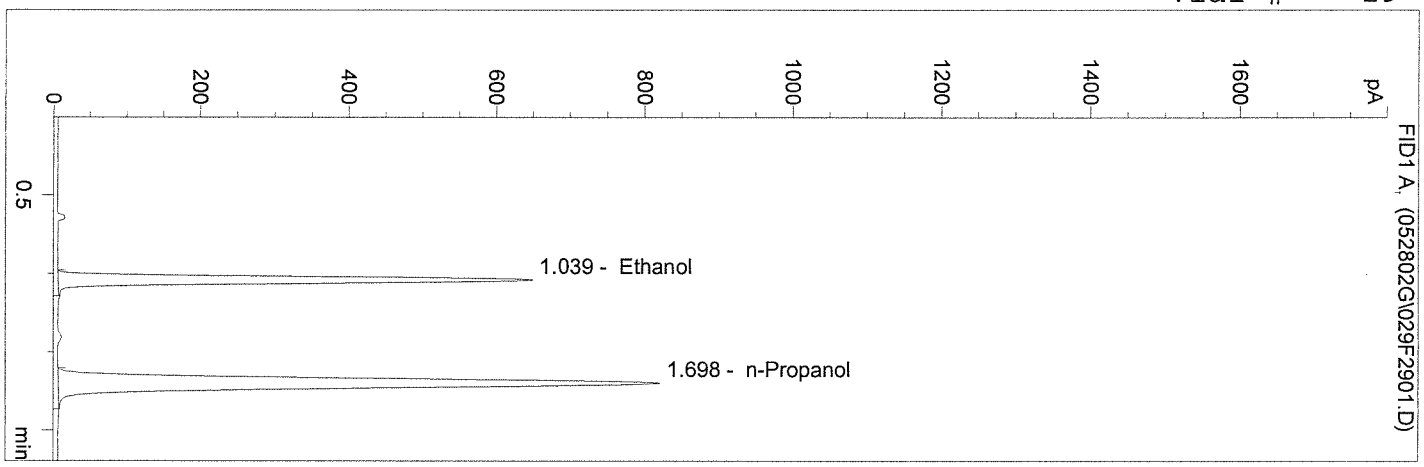
Instrument 1
ALC1

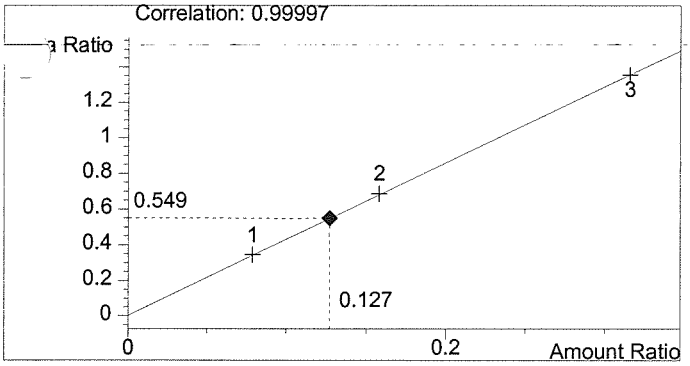
QASOL 02014 0.10
GENE SCHWILKE

vial # 29

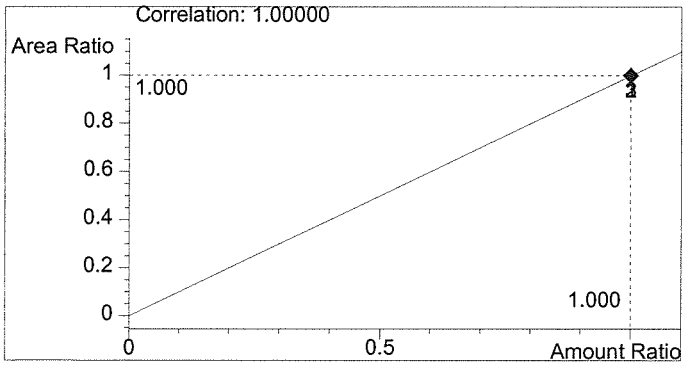


#	Compound	Area	RT
1	Ethanol	1848	1.039
2	n-Propanol	3364	1.698

Totals:



Ethanol 0.127 g/100ml

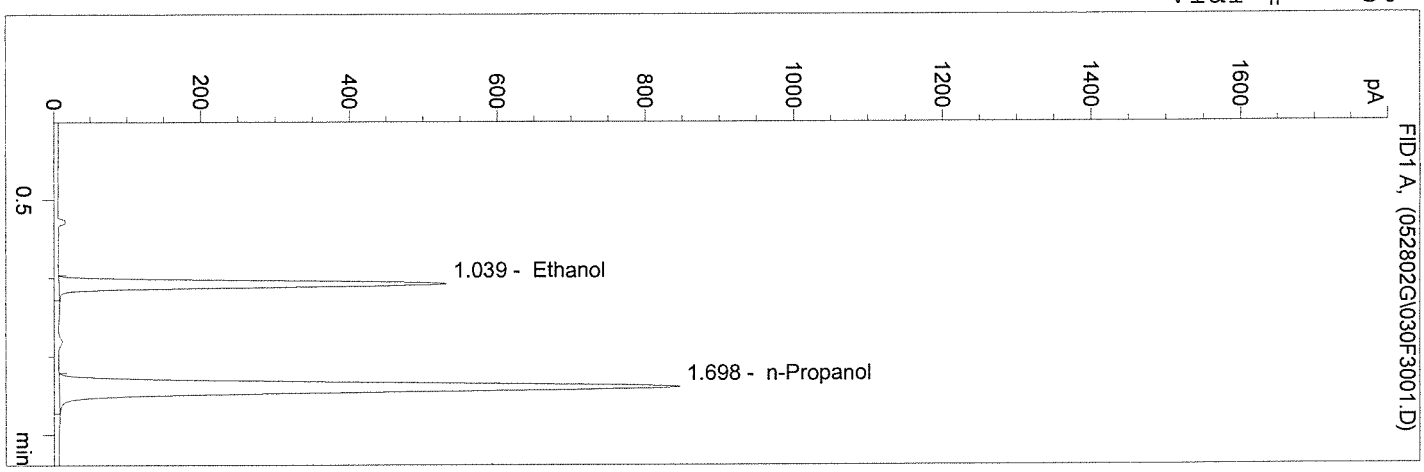


n-Propanol 1.000 g/100ml

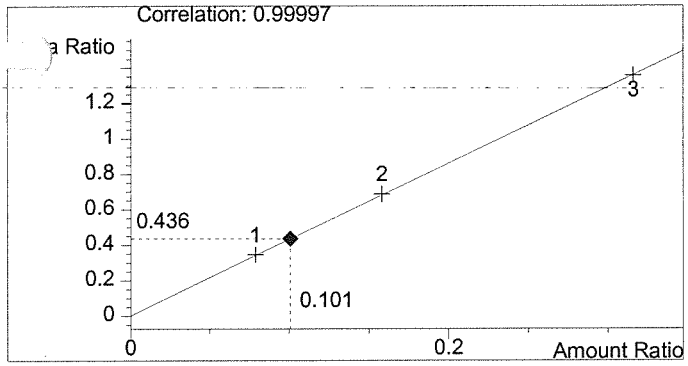
C:\HPCHEM\1\METHODS\BLDALCO.M
5/28/02 1:21:22 PM
Instrument 1
-ALC1

CAP 0.100
GENE SCHWILKE

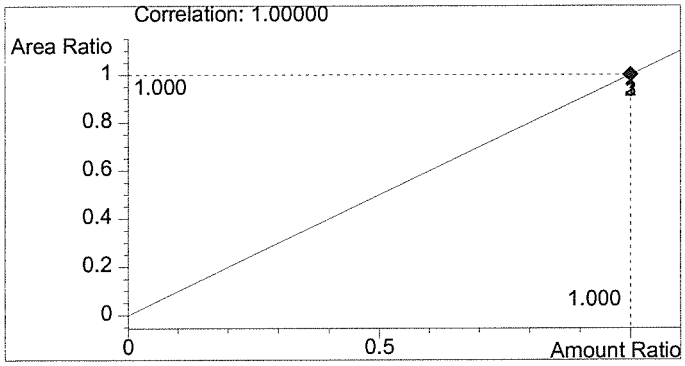
vial # 30



#	Compound	Area	RT
1	Ethanol	1512	1.039
2	n-Propanol	3469	1.698
Totals:			



Ethanol 0.101 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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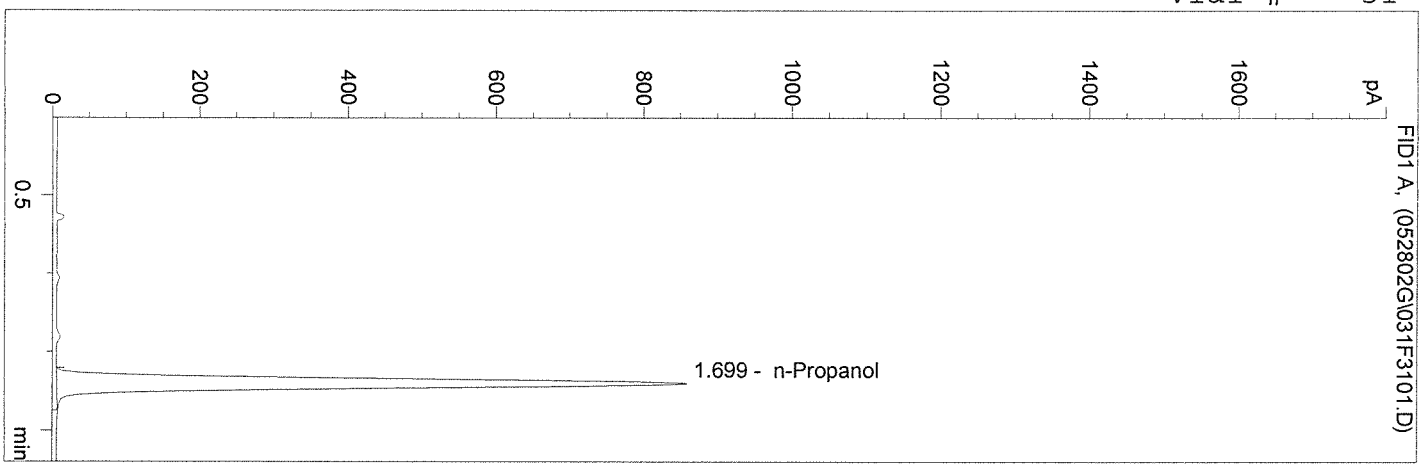
Instrument 1
-ALC1

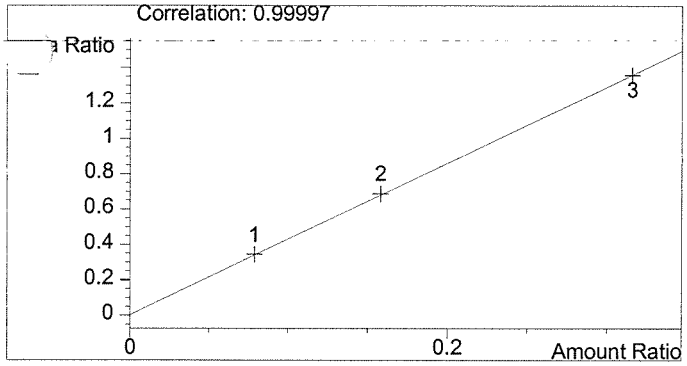
BLANK
GENE SCHWILKE

vial # 31

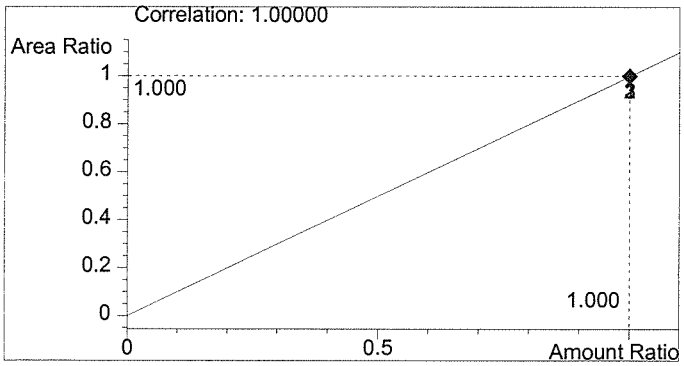


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3526	1.699

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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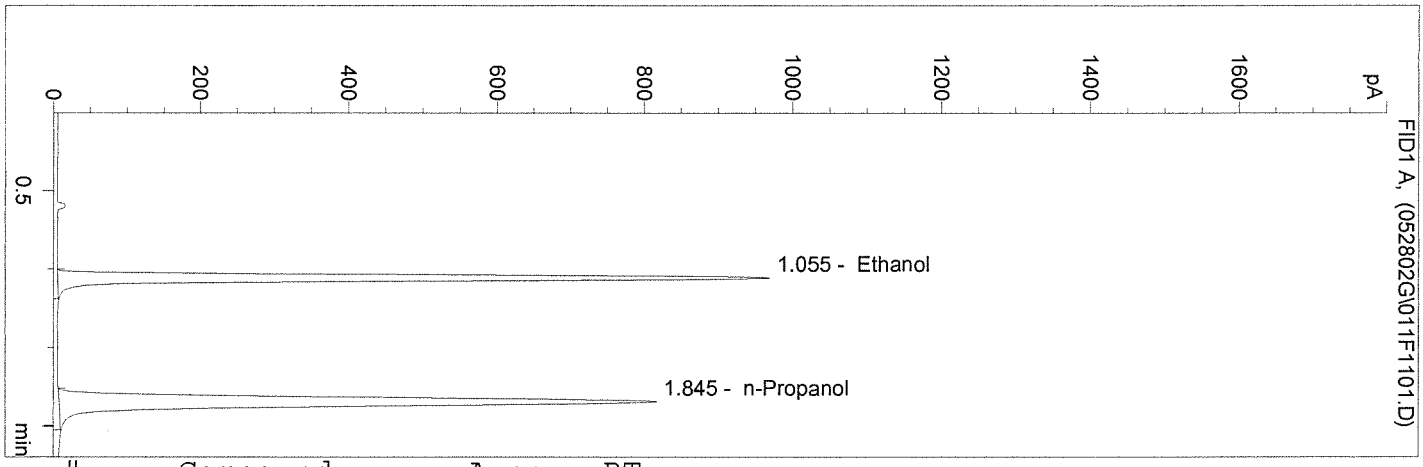
Instrument 2
-ALC1

Cal 3010

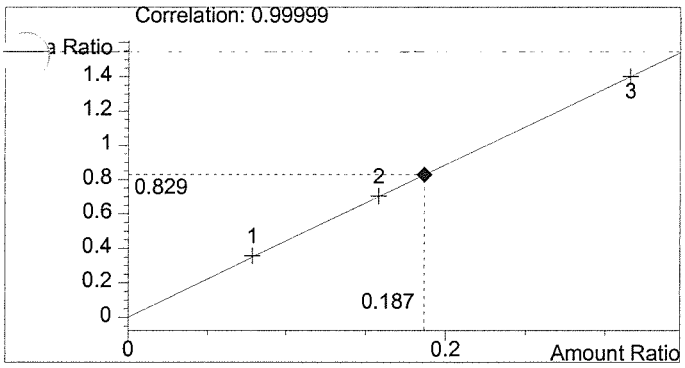
QASOL 02015 0.15
GENE SCHWILKE

vial # 11

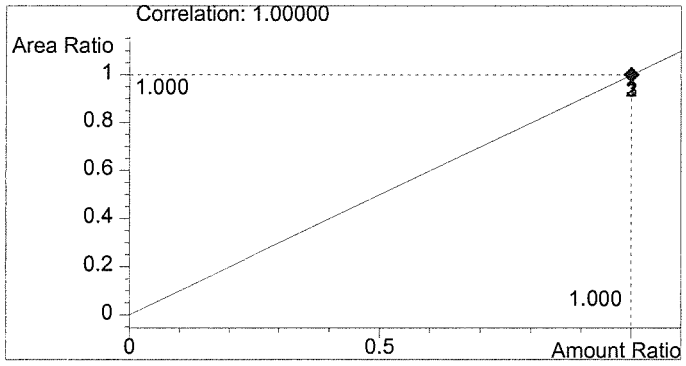


#	Compound	Area	RT
1	Ethanol	2582	1.055
2	n-Propanol	3114	1.845

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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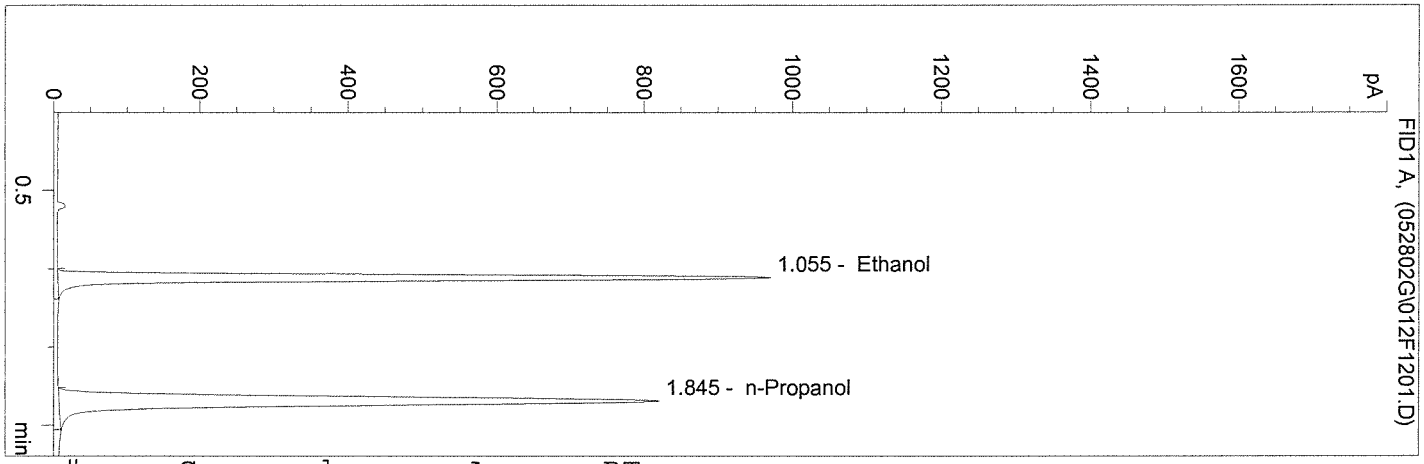
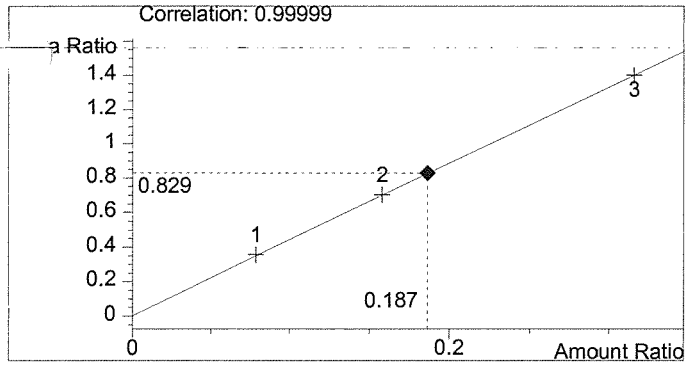
Instrument 2
-ALC1

QASOL 02015 0.15
GENE SCHWILKE

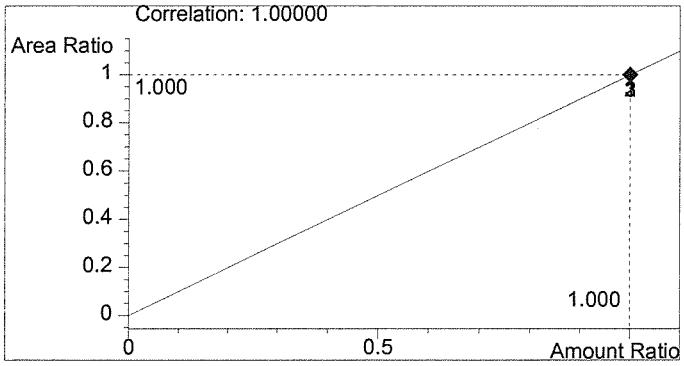
vial # 12



#	Compound	Area	RT
1	Ethanol	2597	1.055
2	n-Propanol	3132	1.845
Totals:			



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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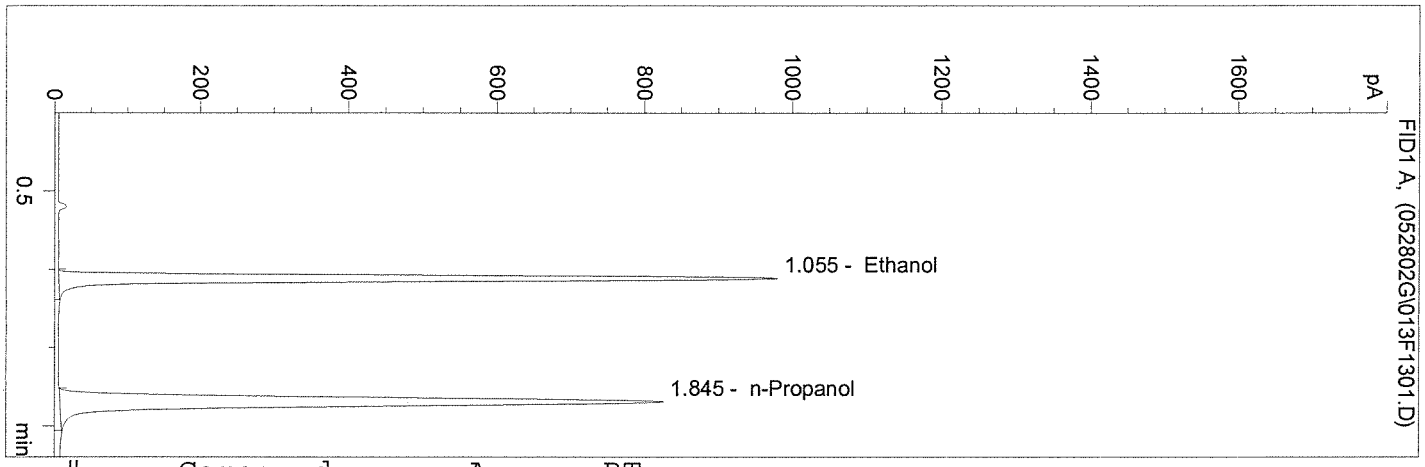
Instrument 2
-ALC1

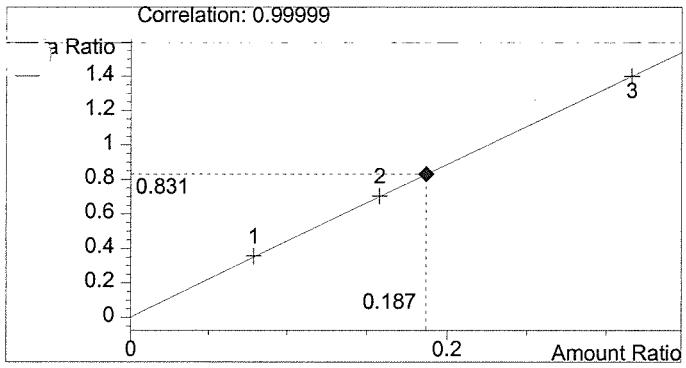
QASOL 02015 0.15
GENE SCHWILKE

vial # 13

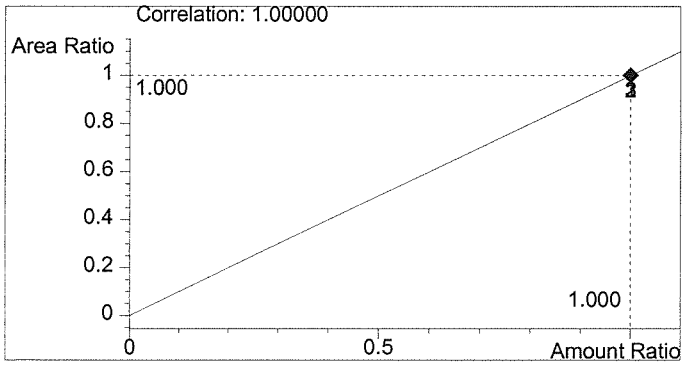


#	Compound	Area	RT
1	Ethanol	2615	1.055
2	n-Propanol	3147	1.845

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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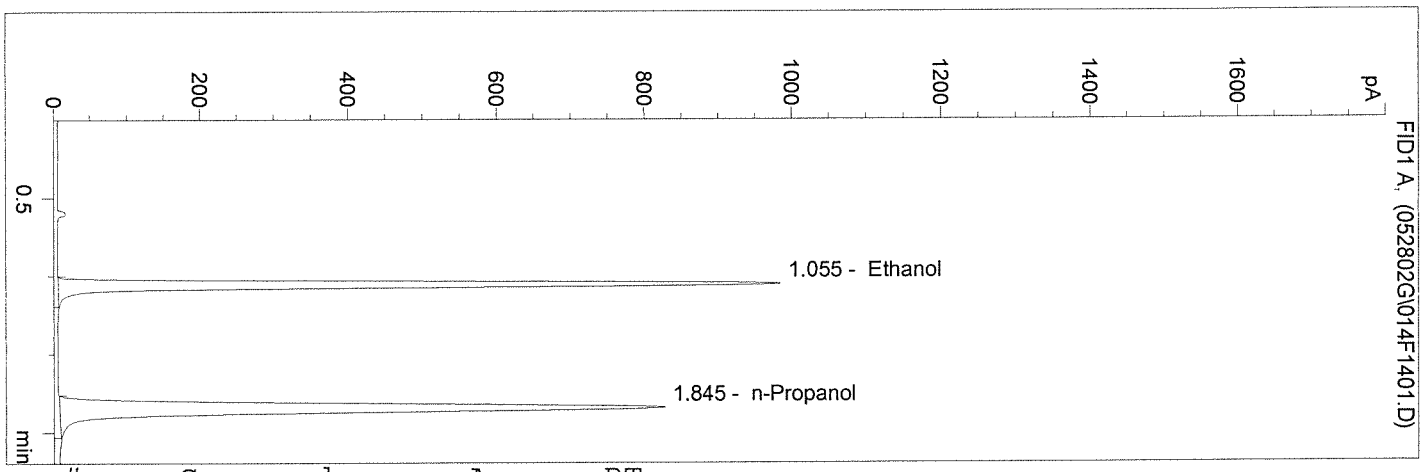
Instrument 2
-ALC1

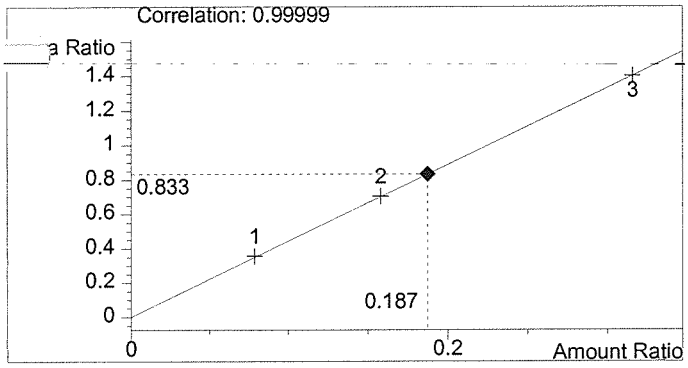
QASOL 02015 0.15
GENE SCHWILKE

vial # 14

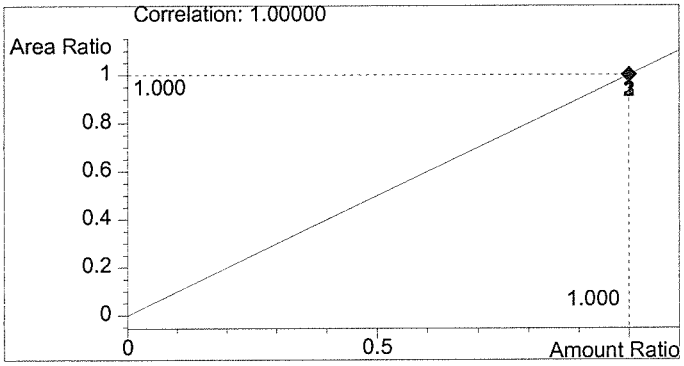


#	Compound	Area	RT
1	Ethanol	2629	1.055
2	n-Propanol	3157	1.845

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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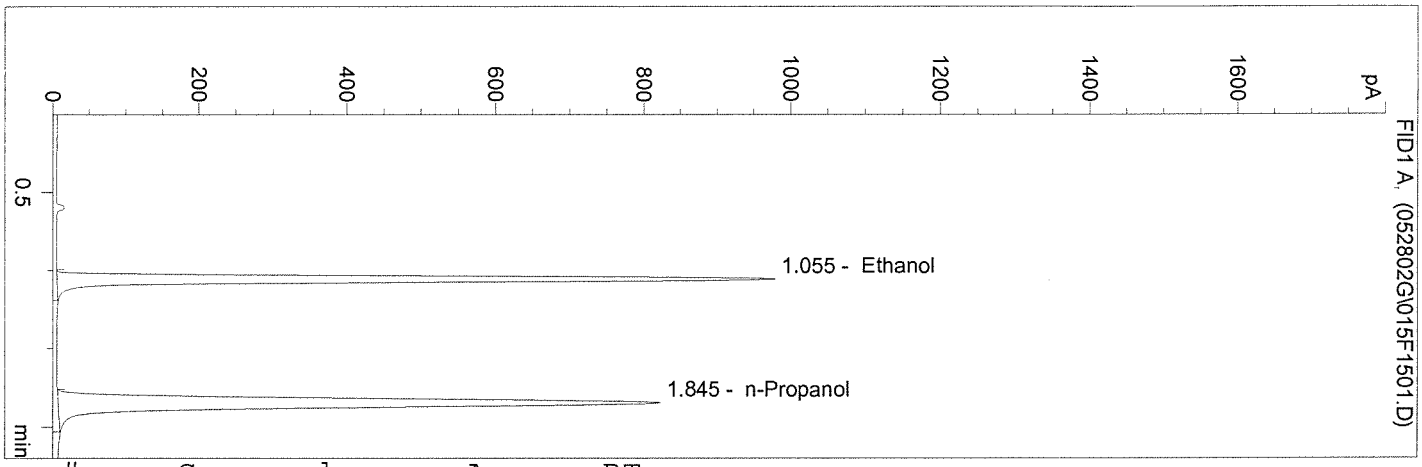
Instrument 2
-ALC1

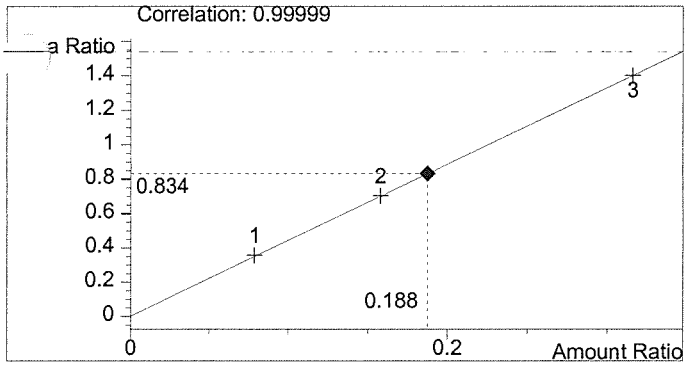
QASOL 02015 0.15
GENE SCHWILKE

vial # 15

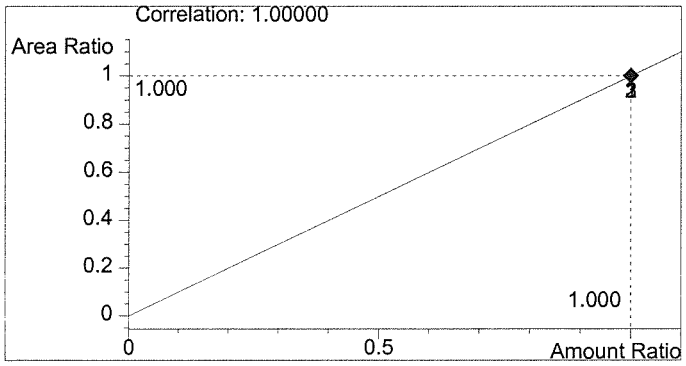


#	Compound	Area	RT
1	Ethanol	2618	1.055
2	n-Propanol	3140	1.845

Totals:



Ethanol 0.188 g/100ml



n-Propanol 1.000 g/100ml

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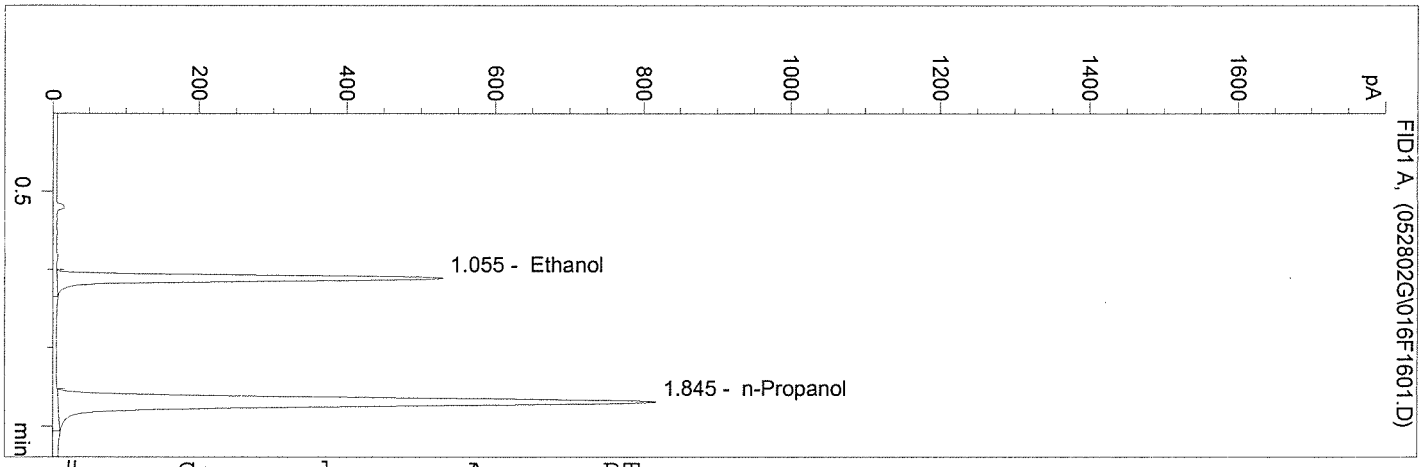
Instrument 2
-ALC1

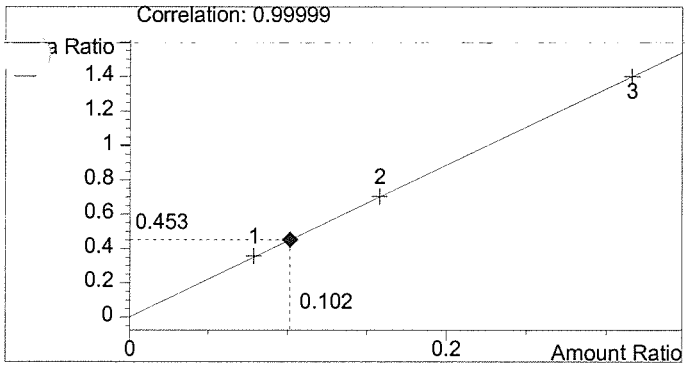
CAP 0.100
GENE SCHWILKE

vial # 16

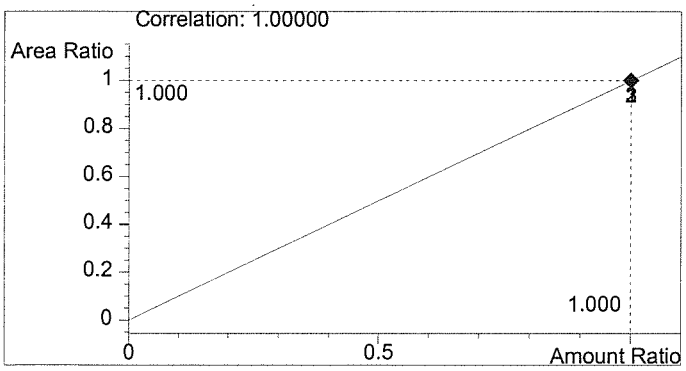


#	Compound	Area	RT
1	Ethanol	1414	1.055
2	n-Propanol	3123	1.845

Totals:



Ethanol 0.102 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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Instrument 2
-ALC1

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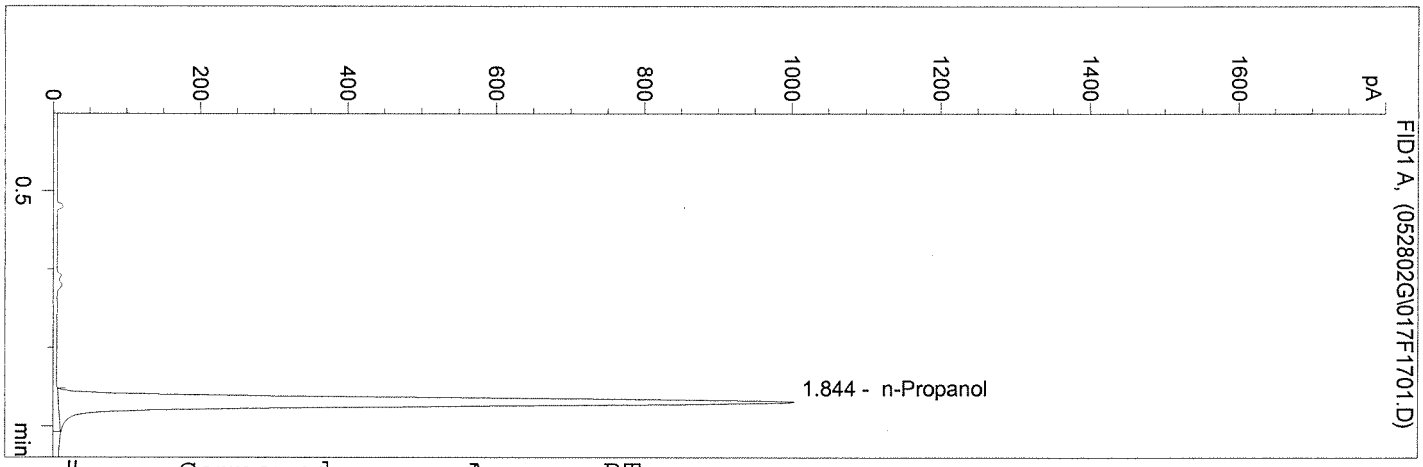
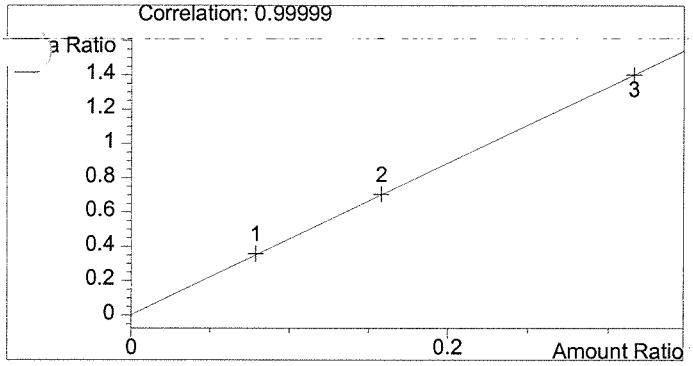
GENE SCHWILKE

vial # 17

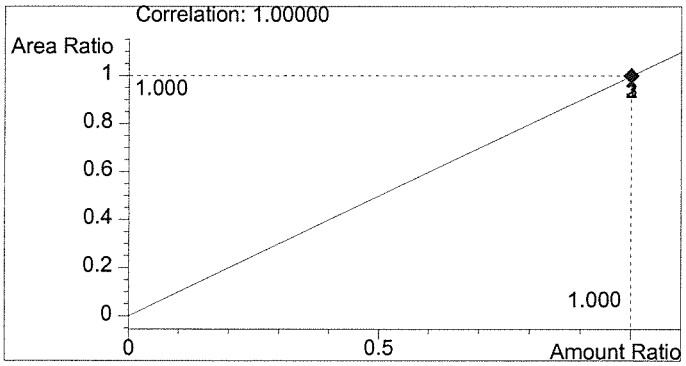


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3838	1.844

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

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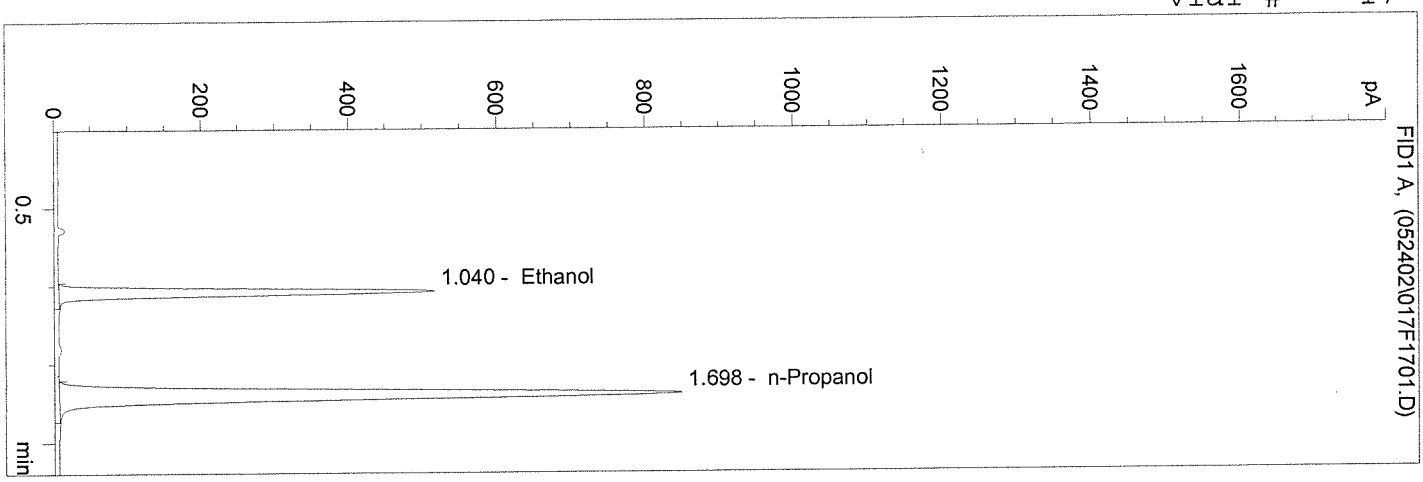
Instrument 1
-ALC1

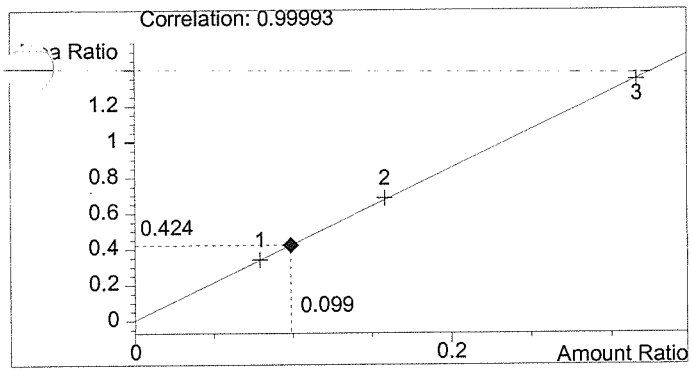
02013 0.08 QA
RUTH LUTHI

vial # 17

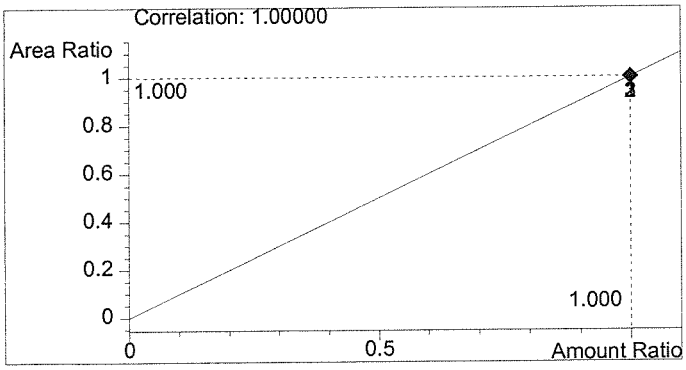


#	Compound	Area	RT
1	Ethanol	1483	1.040
2	n-Propanol	3496	1.698

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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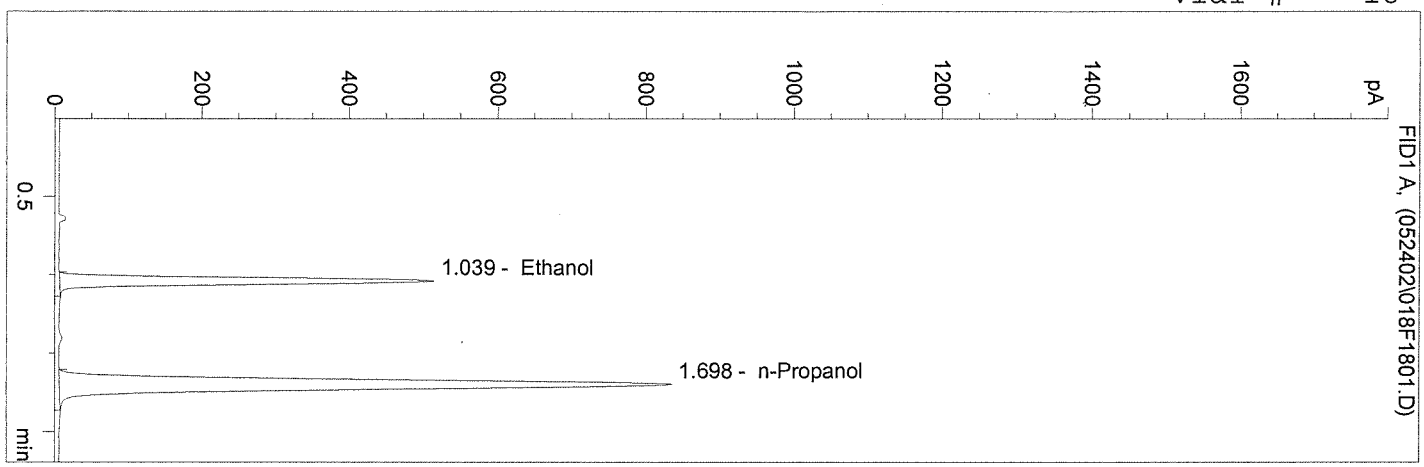
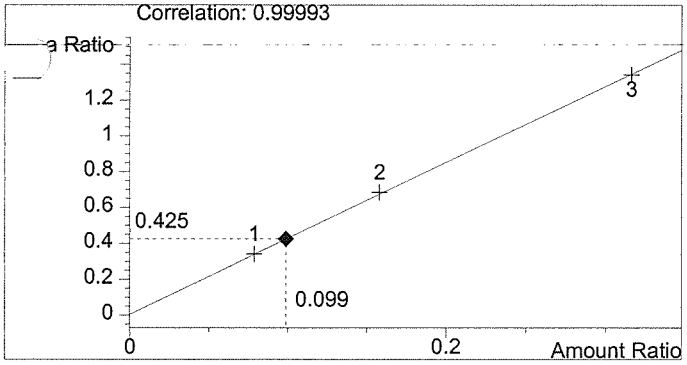
Instrument 1
-ALC1

02013 0.08 QA
RUTH LUTHI

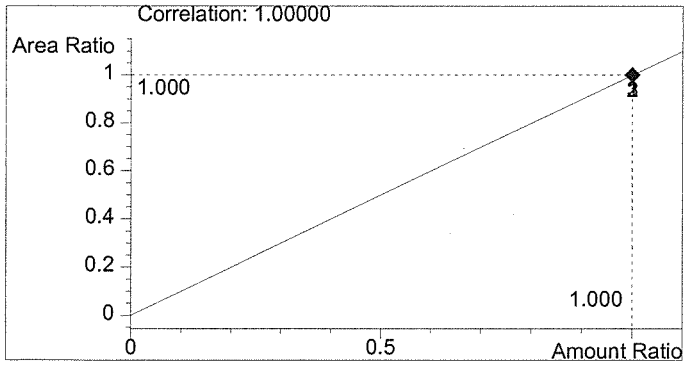
vial # 18



#	Compound	Area	RT
1	Ethanol	1458	1.039
2	n-Propanol	3429	1.698
Totals:			



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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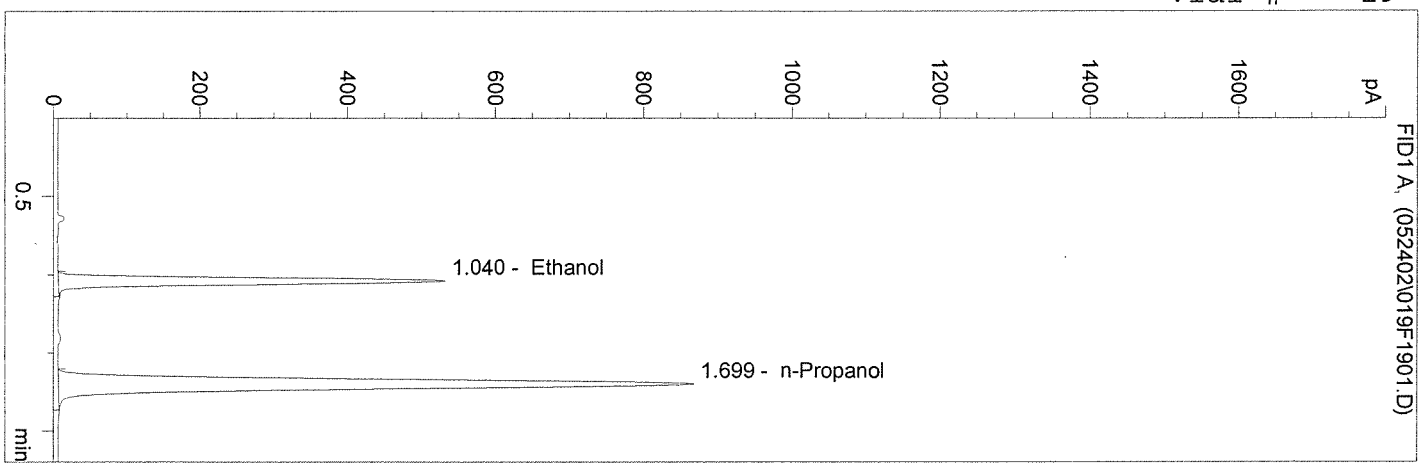
Instrument 1
-ALC1

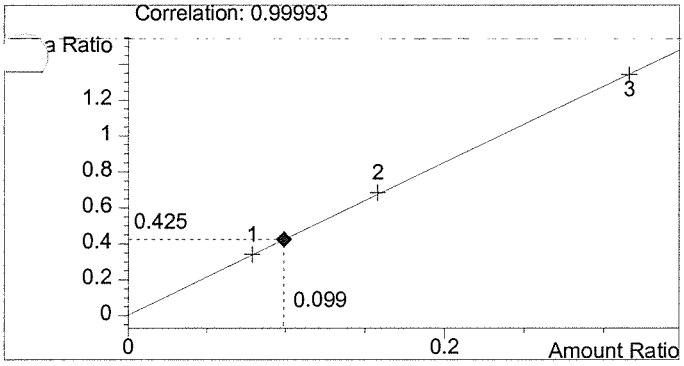
02013 0.08 QA
RUTH LUTHI

vial # 19

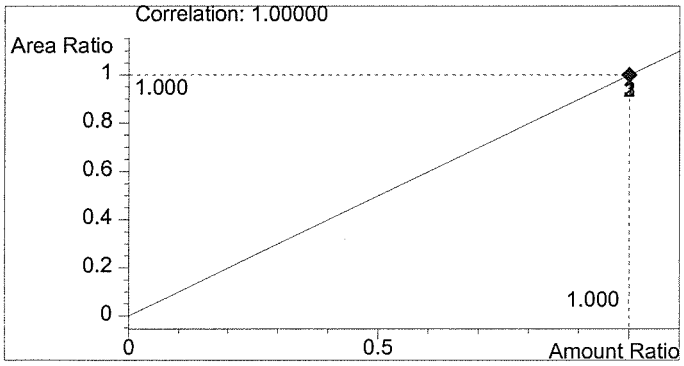


#	Compound	Area	RT
1	Ethanol	1516	1.040
2	n-Propanol	3564	1.699

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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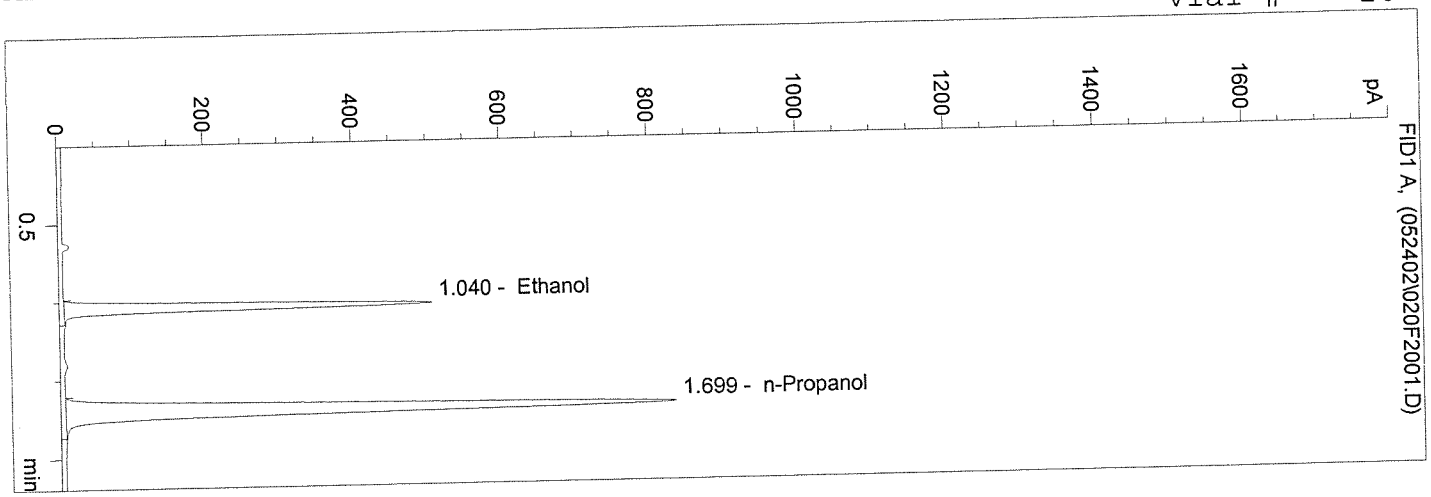
Instrument 1
-ALC1

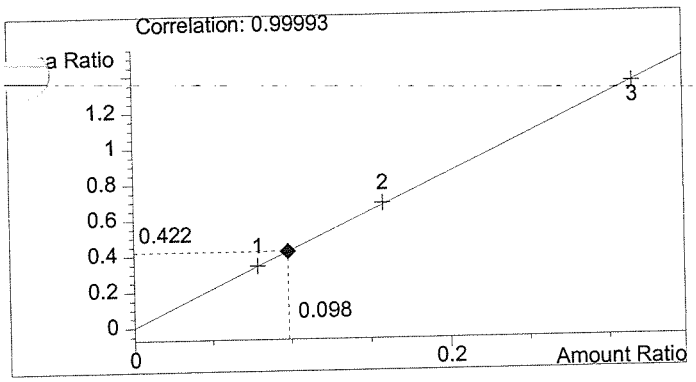
02013 0.08 QA
RUTH LUTHI

vial # 20

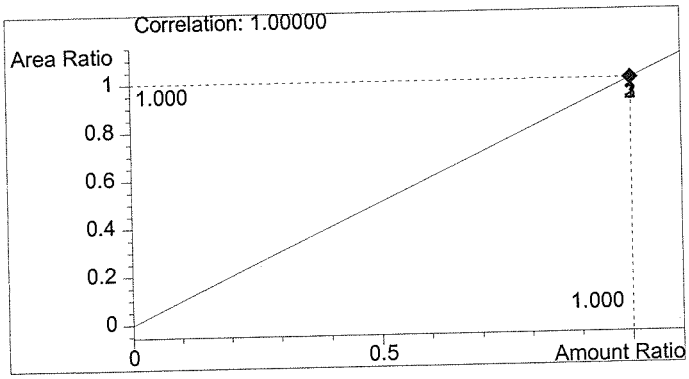


#	Compound	Area	RT
1	Ethanol	1450	1.040
2	n-Propanol	3437	1.699

Totals:



Ethanol 0.098 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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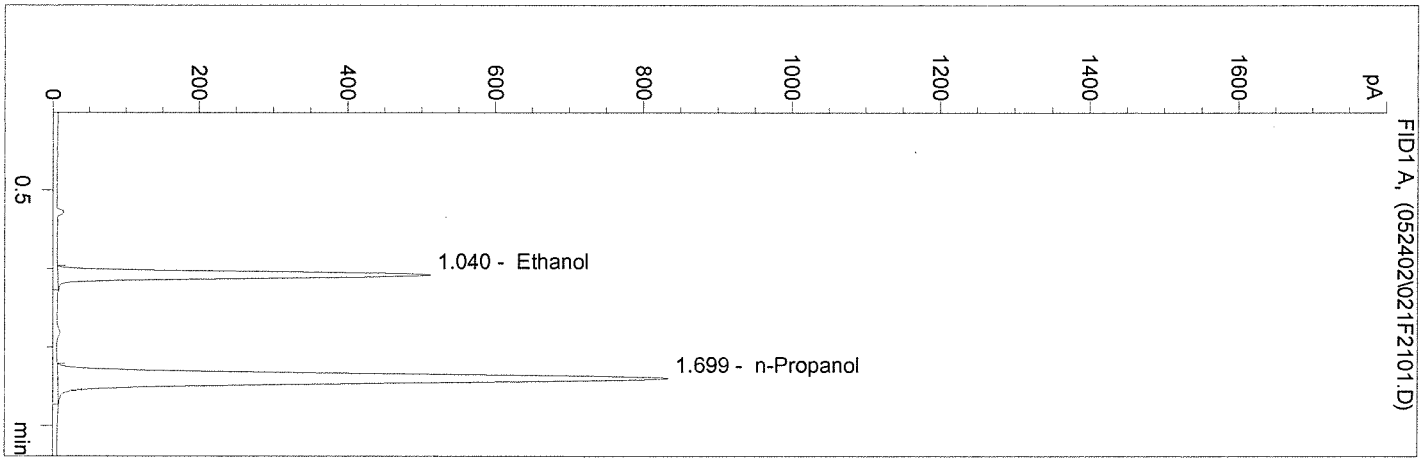
Instrument 1
-ALC1

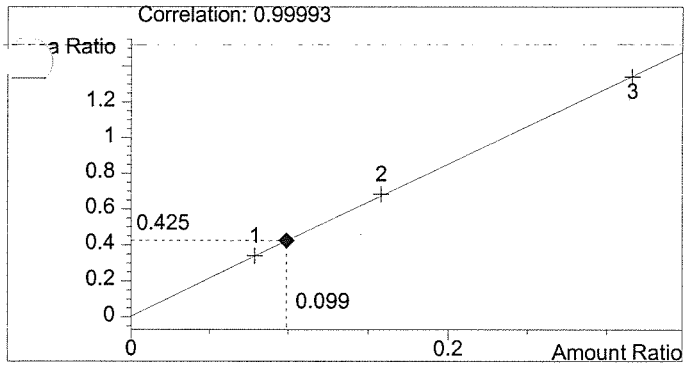
02013 0.08 QA
RUTH LUTHI

vial # 21

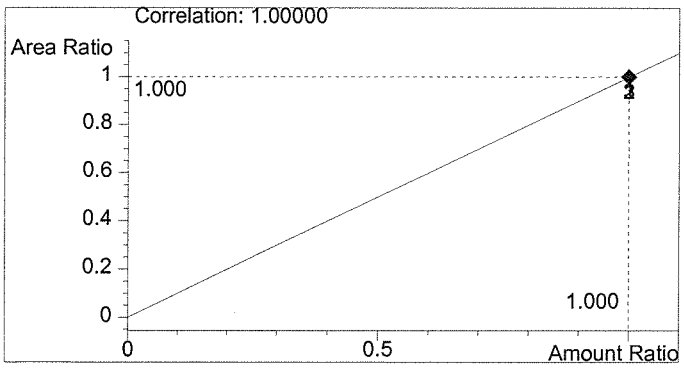


#	Compound	Area	RT
1	Ethanol	1457	1.040
2	n-Propanol	3429	1.699

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

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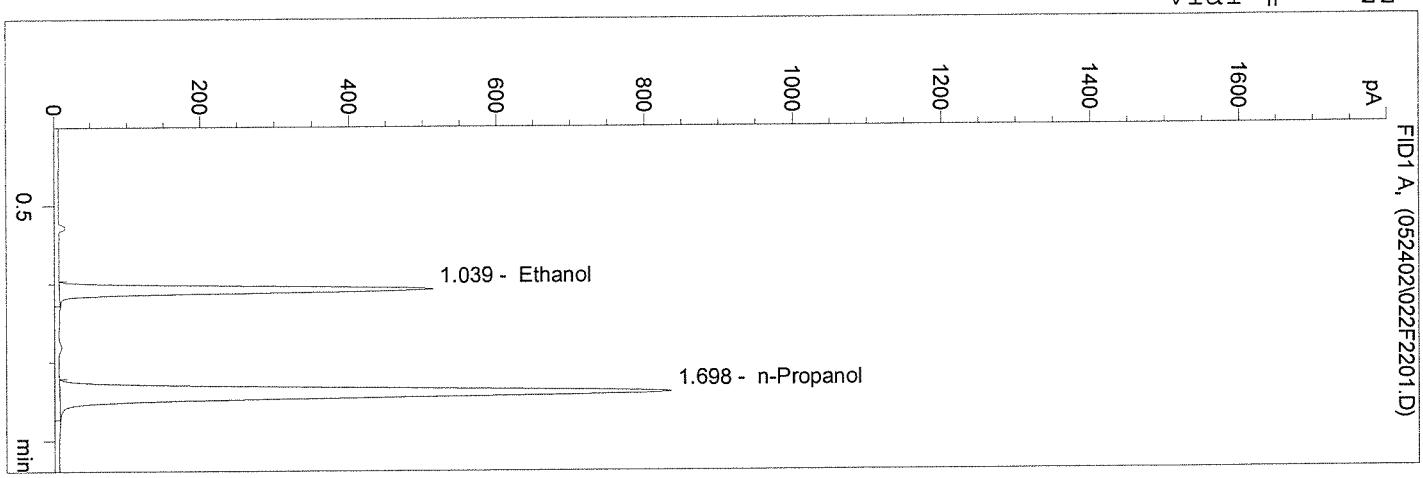
Instrument 1
-ALC1

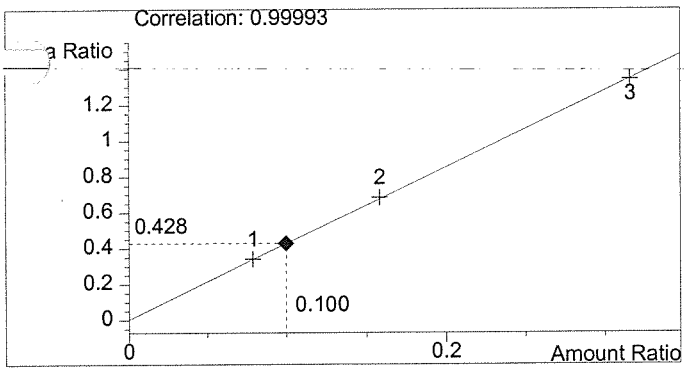
0.100 CTRL
RUTH LUTHI

vial # 22

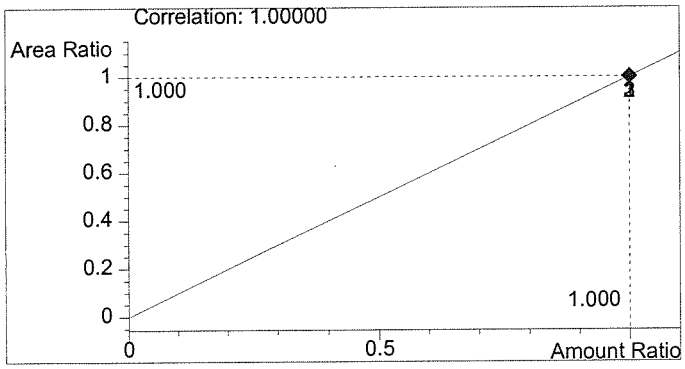


#	Compound	Area	RT
1	Ethanol	1470	1.039
2	n-Propanol	3433	1.698

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

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Instrument 1
B-ALC1

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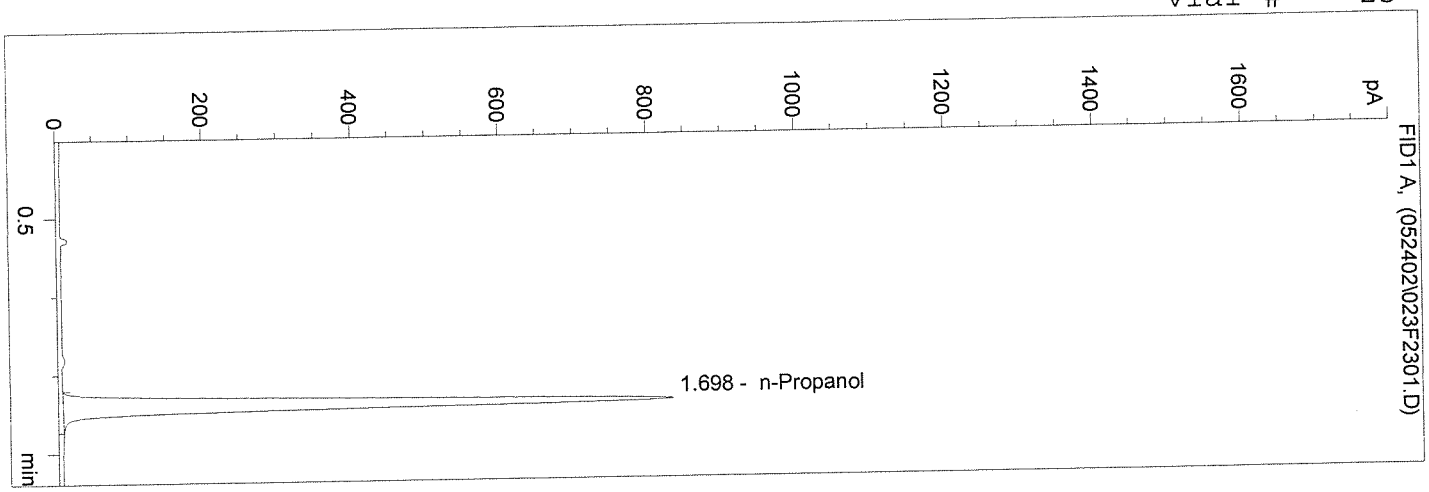
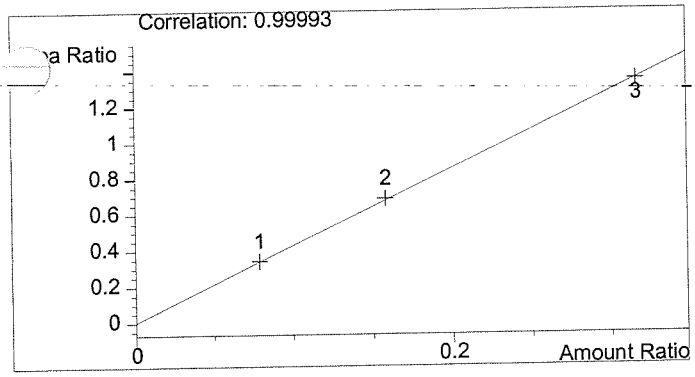
RUTH LUTHI

vial # 23

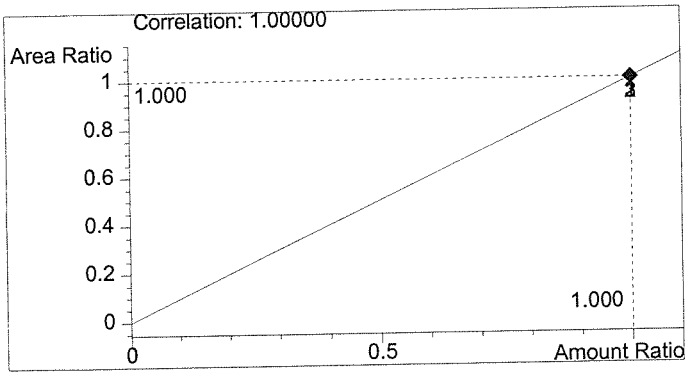


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3429	1.698

Totals:



Ethanol 0.000 g/100ml



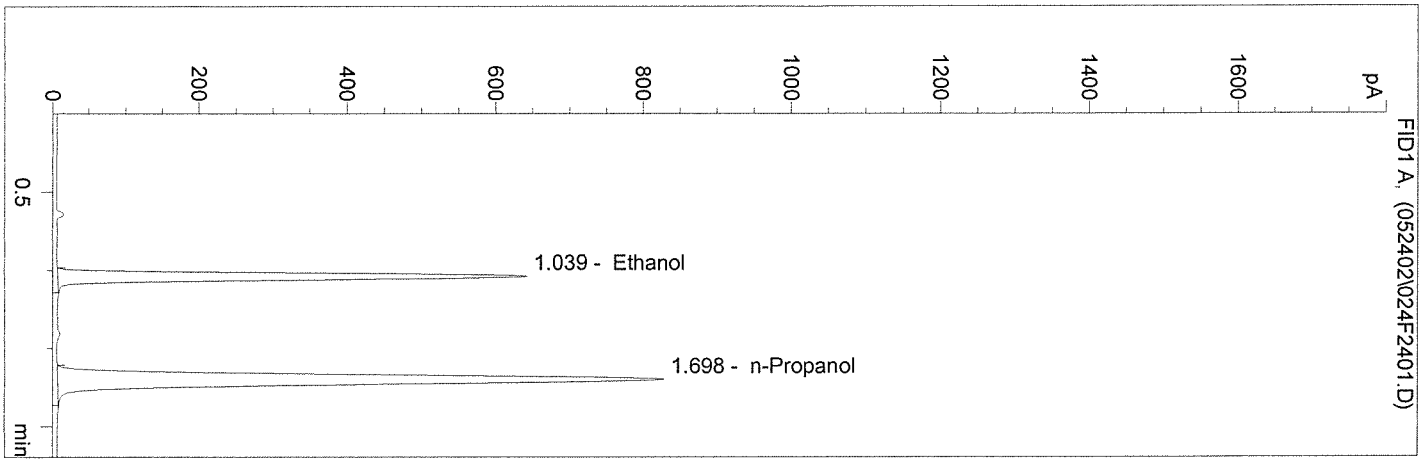
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO.M
5/24/02 12:54:46 PM
Instrument 1
-ALC1

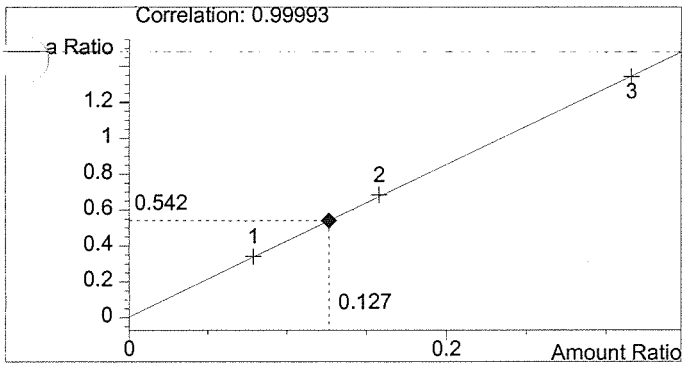
02014 0.10 QA
RUTH LUTHI

vial # 24

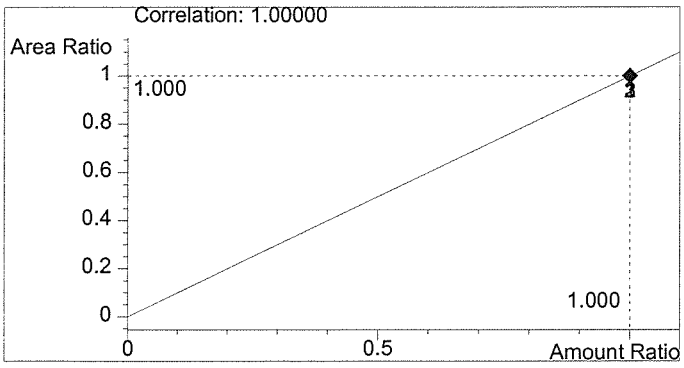


#	Compound	Area	RT
1	Ethanol	1844	1.039
2	n-Propanol	3400	1.698

Totals:



Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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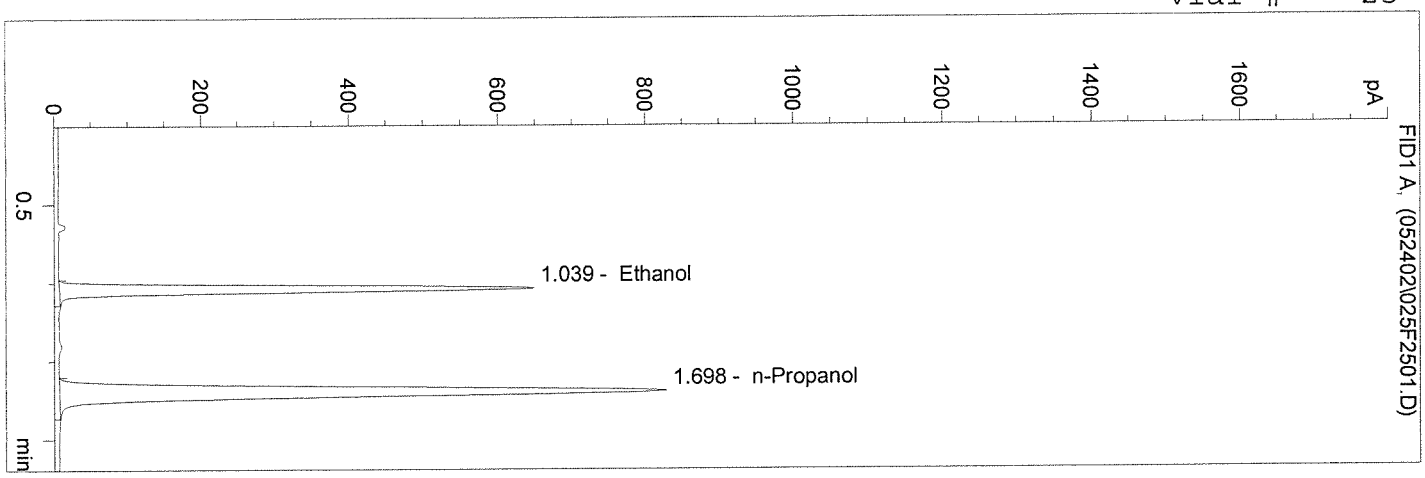
Instrument 1
-ALC1

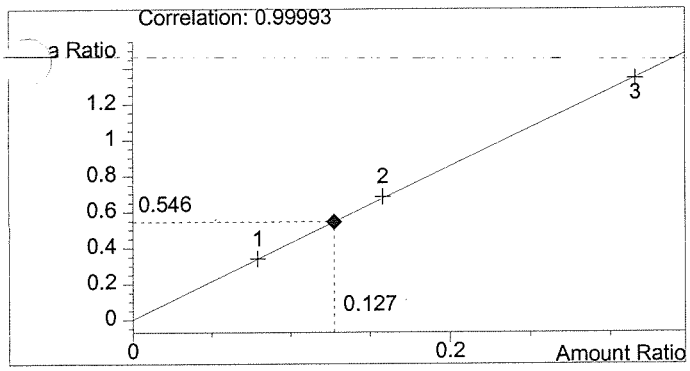
02014 0.10 QA
RUTH LUTHI

vial # 25

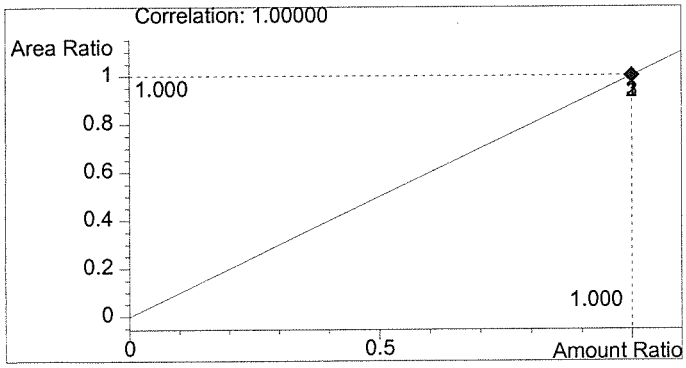


#	Compound	Area	RT
1	Ethanol	1853	1.039
2	n-Propanol	3394	1.698

Totals:



Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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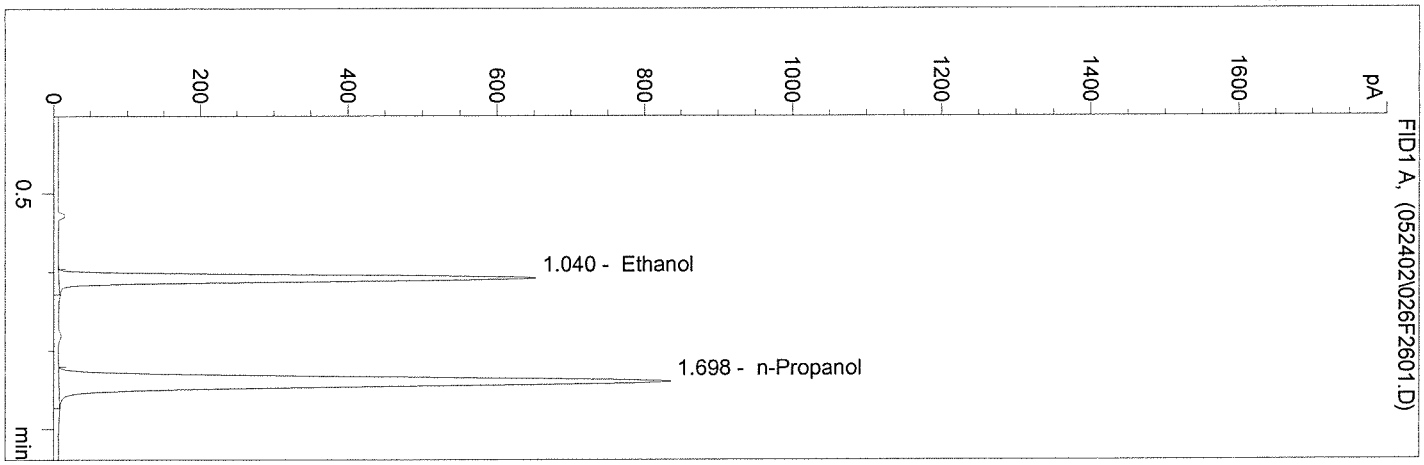
Instrument 1
-ALC1

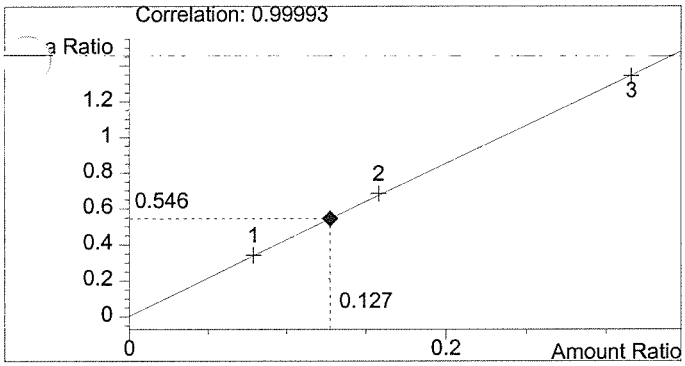
02014 0.10 QA
RUTH LUTHI

vial # 26

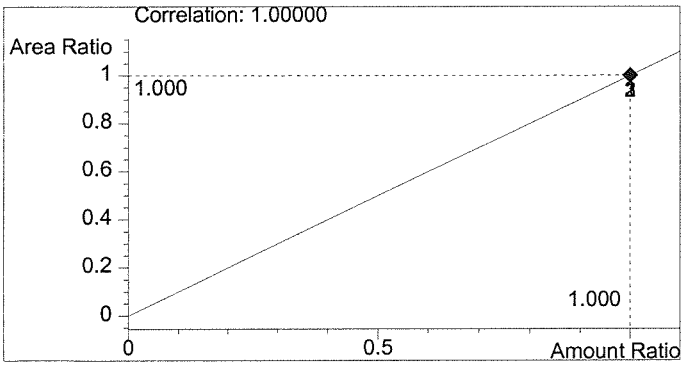


#	Compound	Area	RT
1	Ethanol	1875	1.040
2	n-Propanol	3432	1.698

Totals:



Ethanol 0.127 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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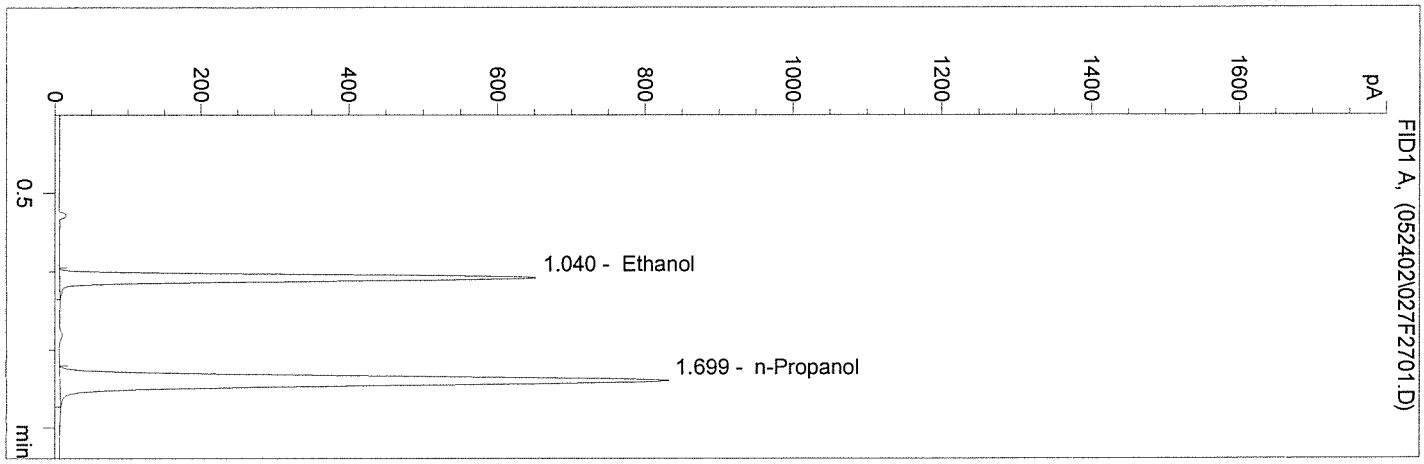
Instrument 1
-ALC1

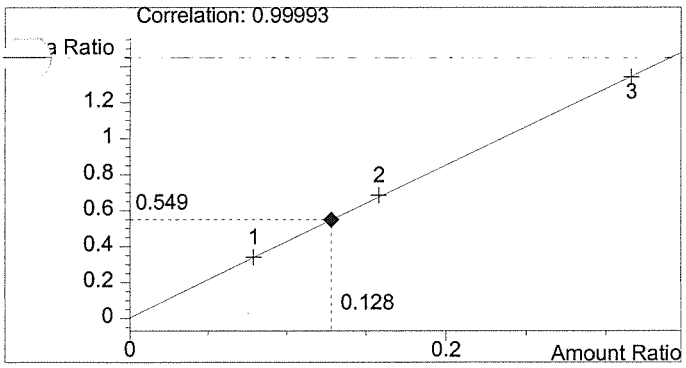
02014 0.10 QA
RUTH LUTHI

vial # 27

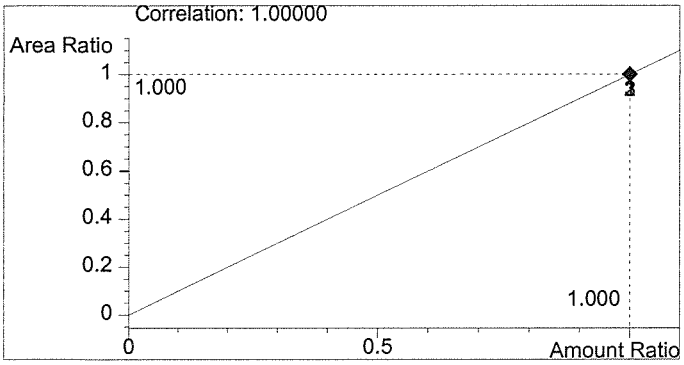


#	Compound	Area	RT
1	Ethanol	1881	1.040
2	n-Propanol	3427	1.699

Totals:



Ethanol 0.128 g/100ml



n-Propanol 1.000 g/100ml

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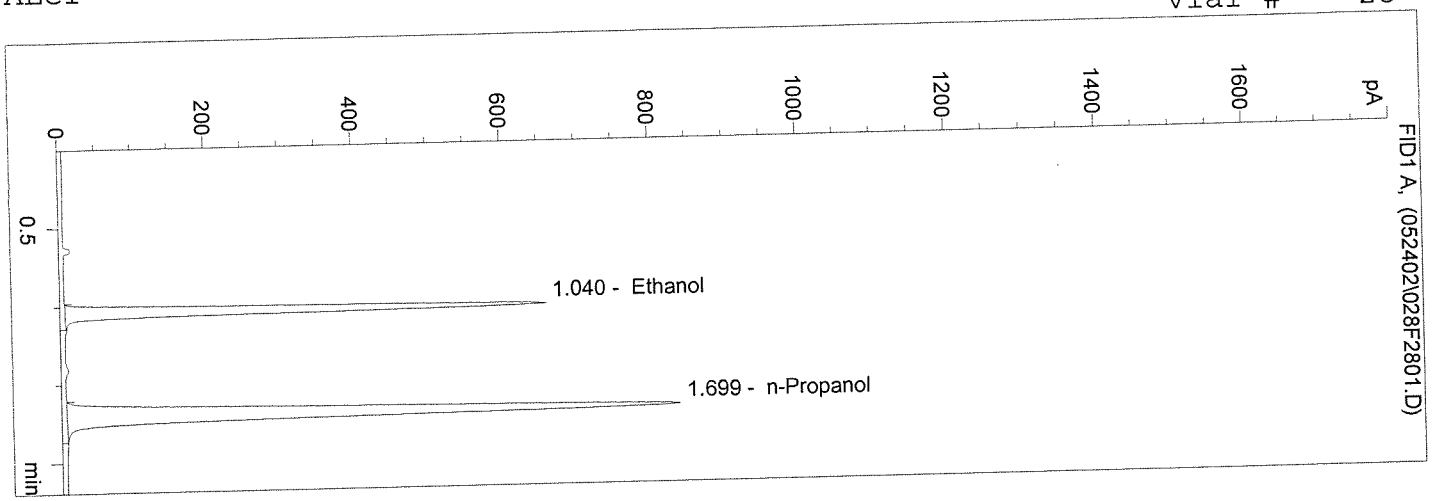
Instrument 1
ALC1

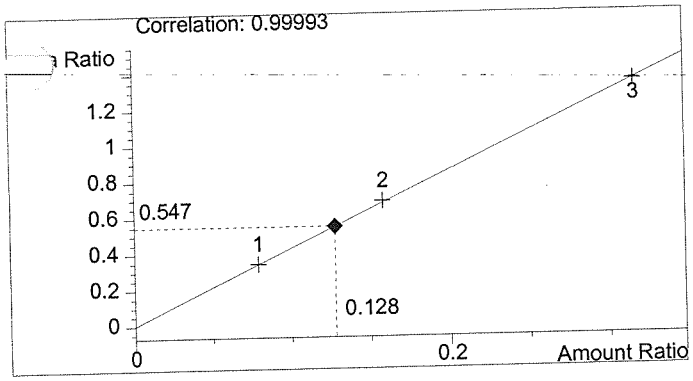
02014 0.10 QA
RUTH LUTHI

vial # 28

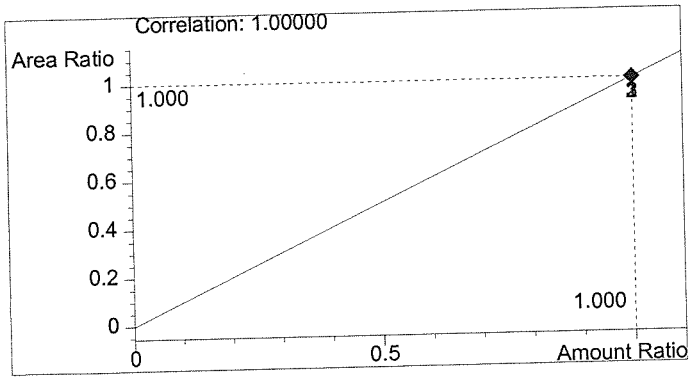


#	Compound	Area	RT
1	Ethanol	1888	1.040
2	n-Propanol	3451	1.699

Totals:



Ethanol 0.128 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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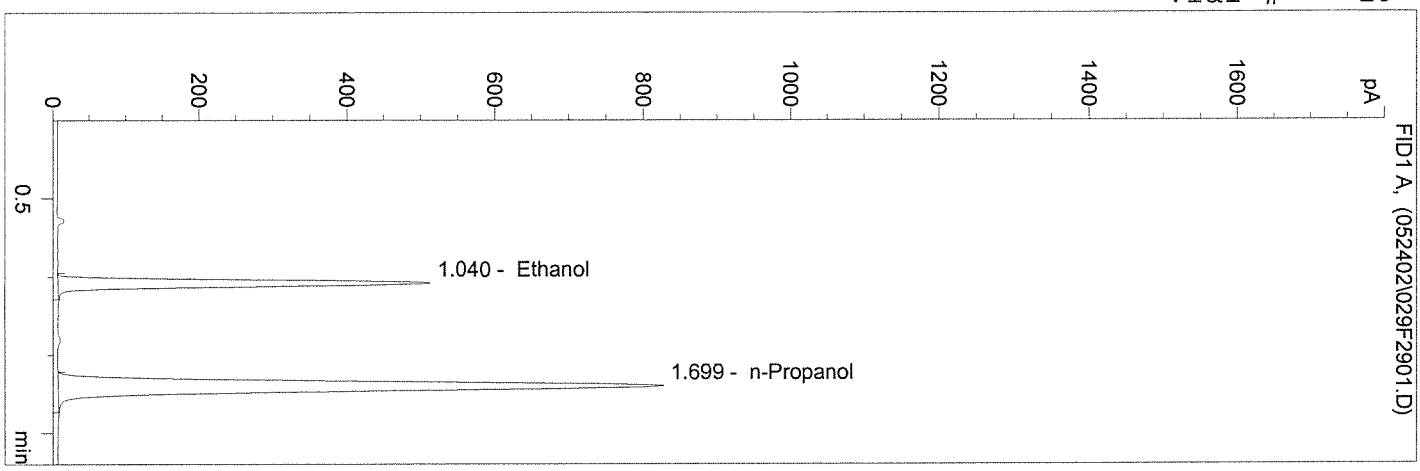
Instrument 1
-ALC1

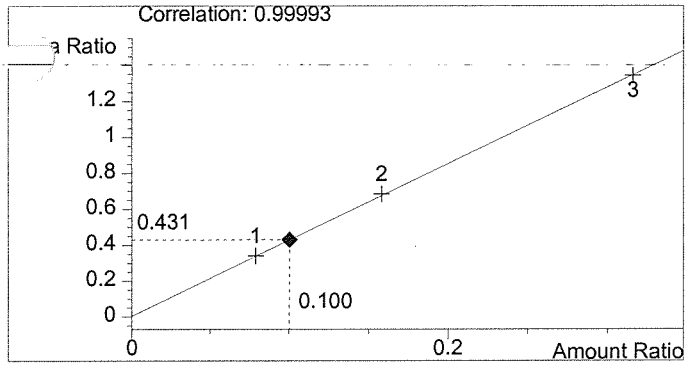
0.100 CTRL
RUTH LUTHI

vial # 29

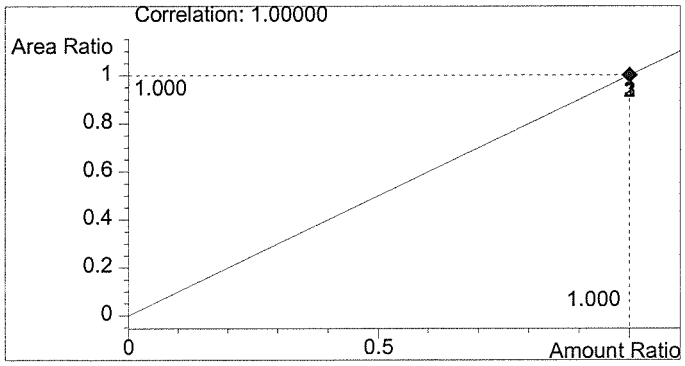


#	Compound	Area	RT
1	Ethanol	1465	1.040
2	n-Propanol	3400	1.699

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

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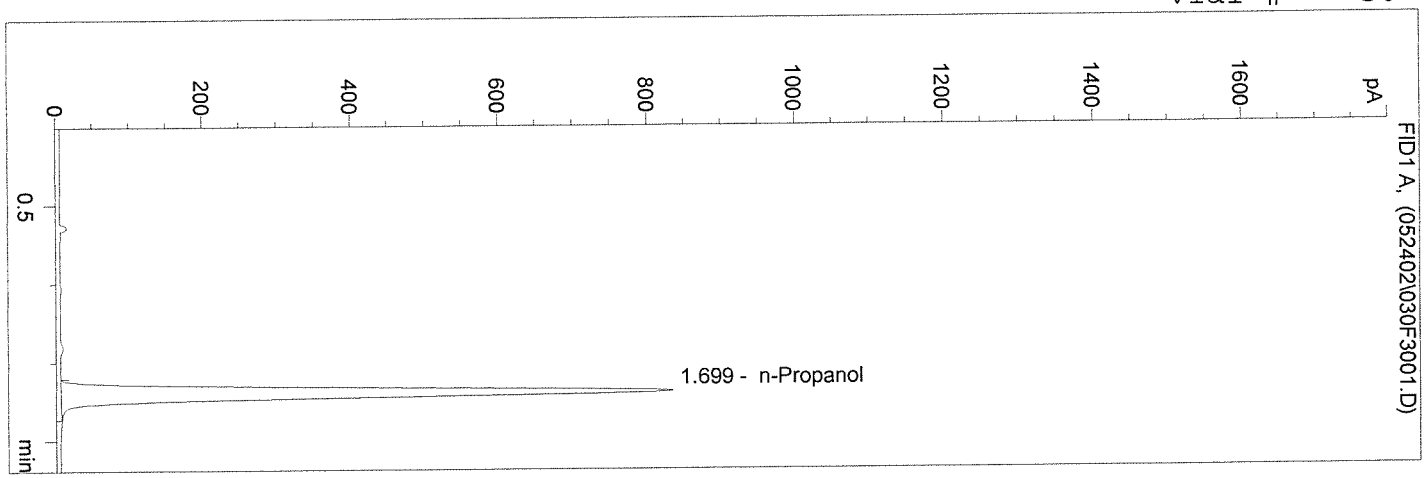
Instrument 1
-ALC1

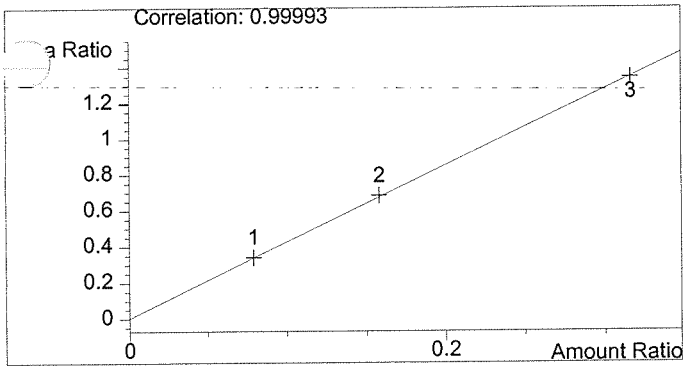
BLANK
RUTH LUTHI

vial # 30

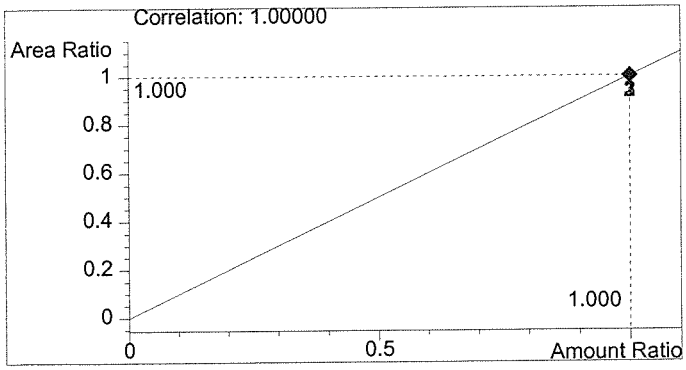


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3429	1.699

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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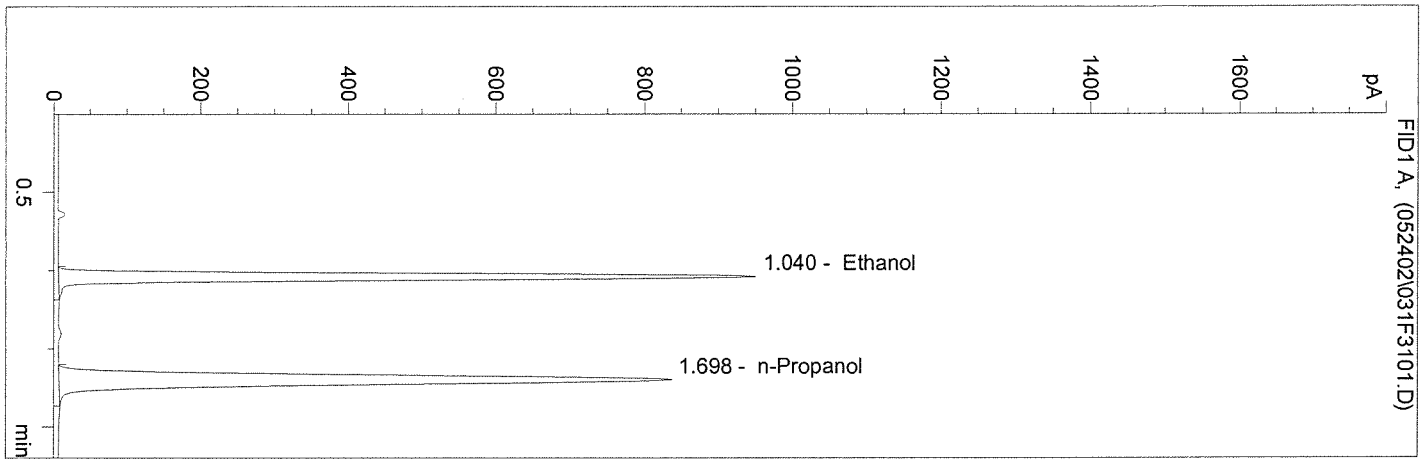
Instrument 1
-ALC1

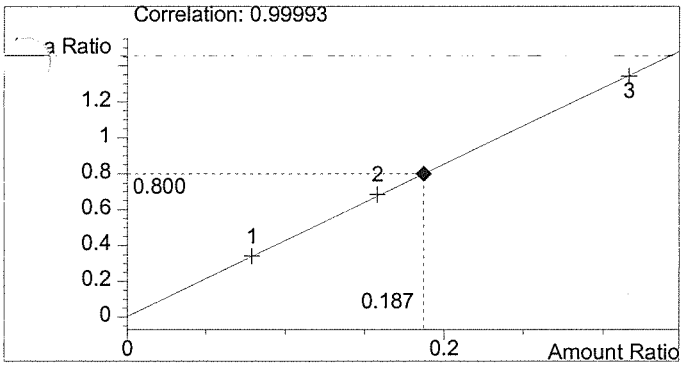
02015 0.15 QA
RUTH LUTHI

vial # 31

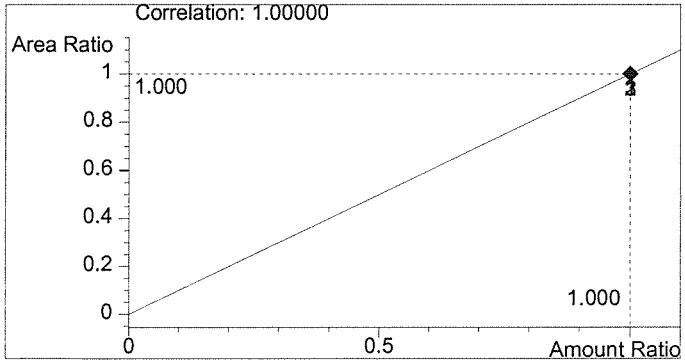


#	Compound	Area	RT
1	Ethanol	2740	1.040
2	n-Propanol	3426	1.698

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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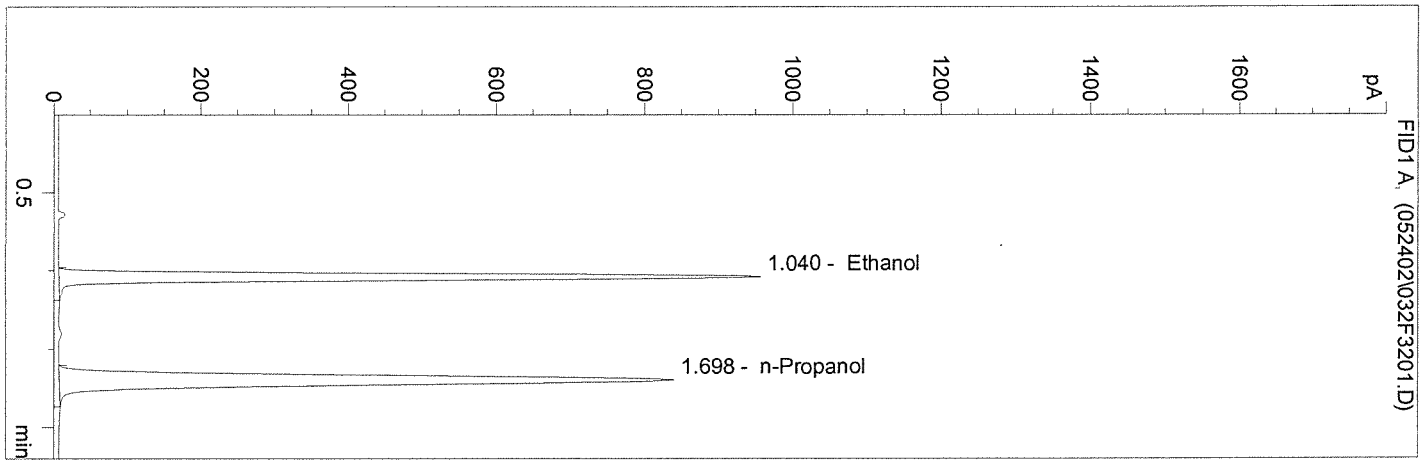
Instrument 1
DB-ALC1

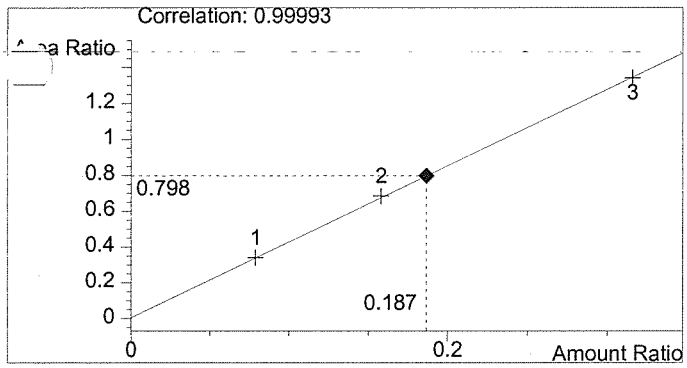
02015 0.15 QA
RUTH LUTHI

vial # 32

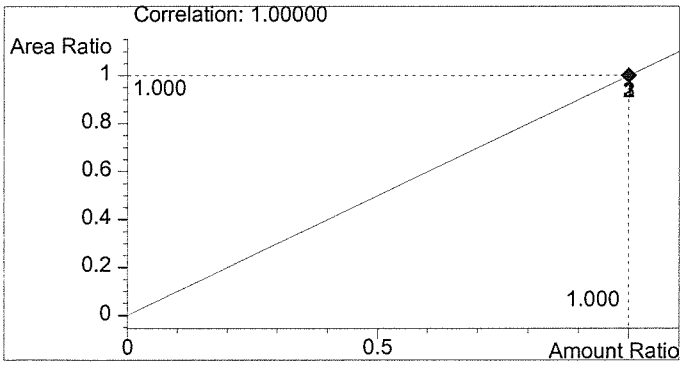


#	Compound	Area	RT
1	Ethanol	2748	1.040
2	n-Propanol	3445	1.698

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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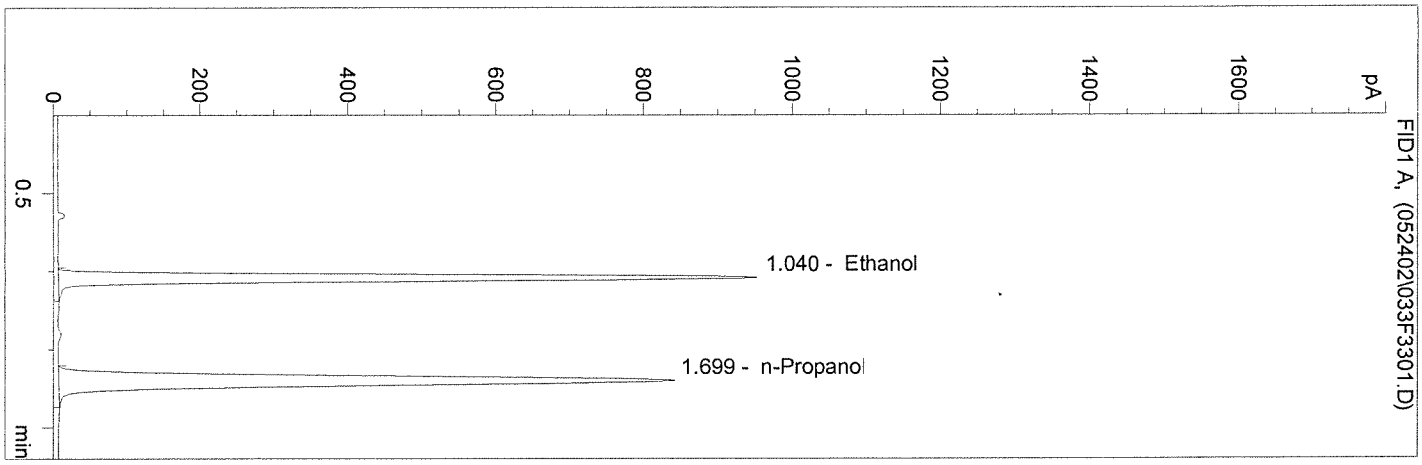
Instrument 1
DB-ALC1

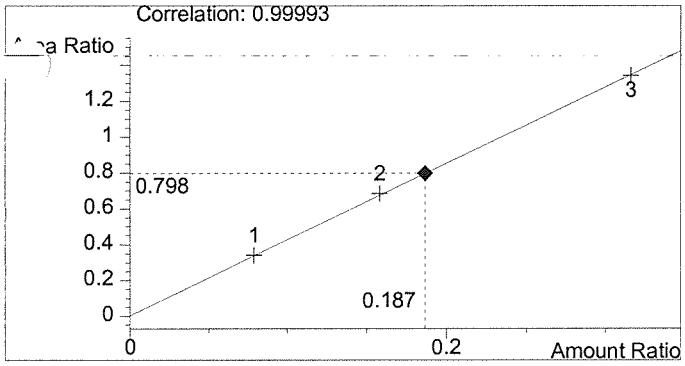
02015 0.15 QA
RUTH LUTHI

vial # 33

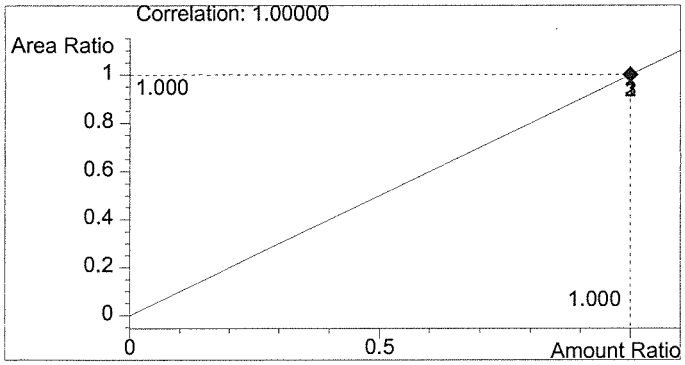


#	Compound	Area	RT
1	Ethanol	2758	1.040
2	n-Propanol	3458	1.699

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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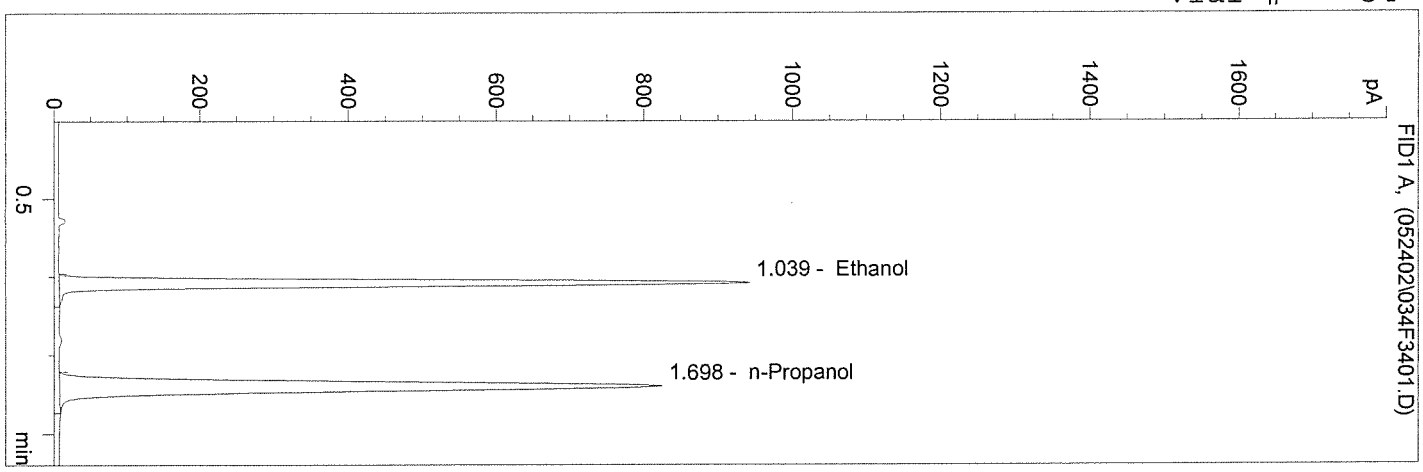
Instrument 1
[illegible]-ALC1

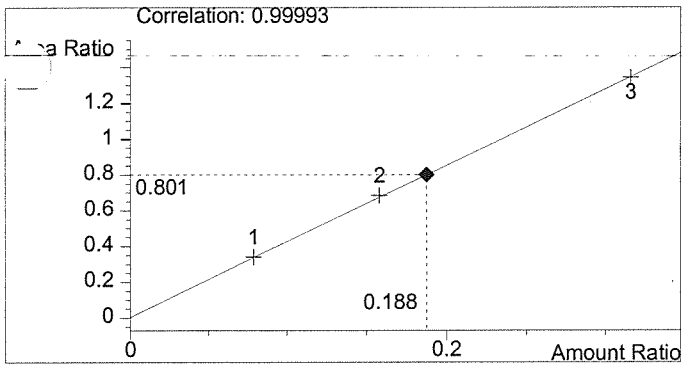
02015 0.15 QA
RUTH LUTHI

vial # 34

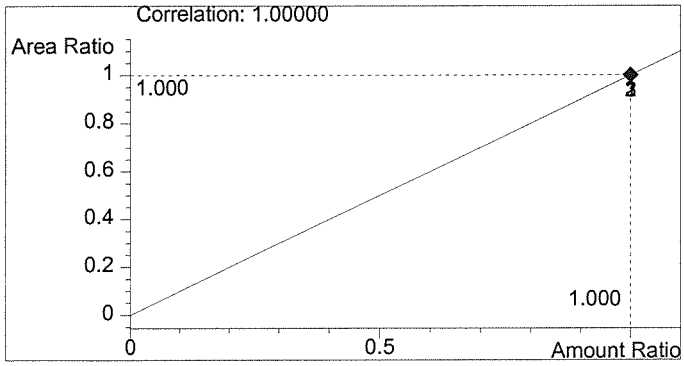


#	Compound	Area	RT
1	Ethanol	2713	1.039
2	n-Propanol	3387	1.698

Totals:



Ethanol 0.188 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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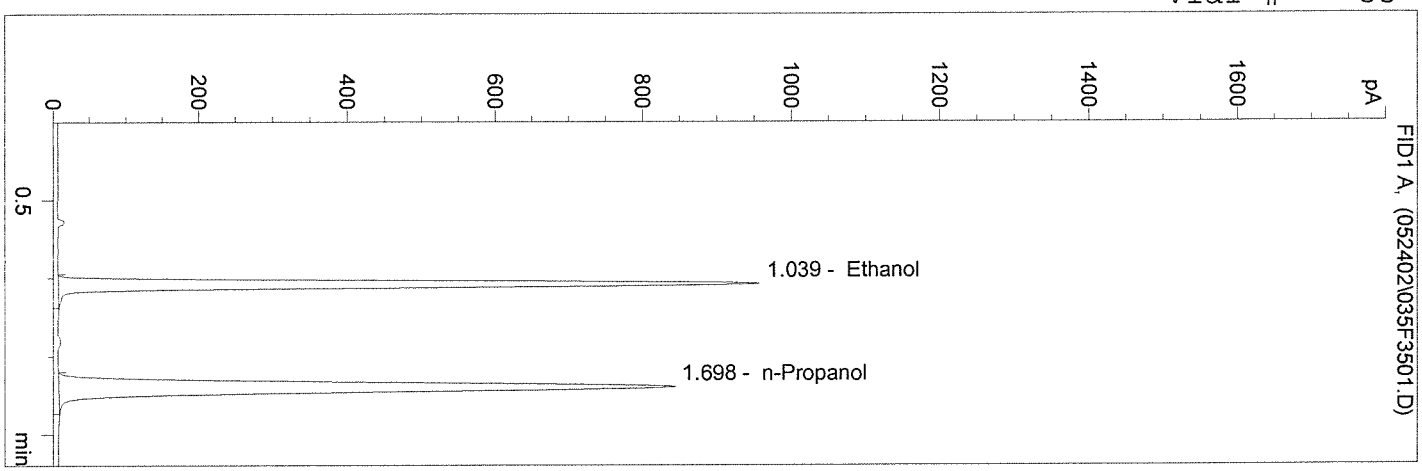
5/24/02 1:28:05 PM
Instrument 1
[illegible]-ALC1

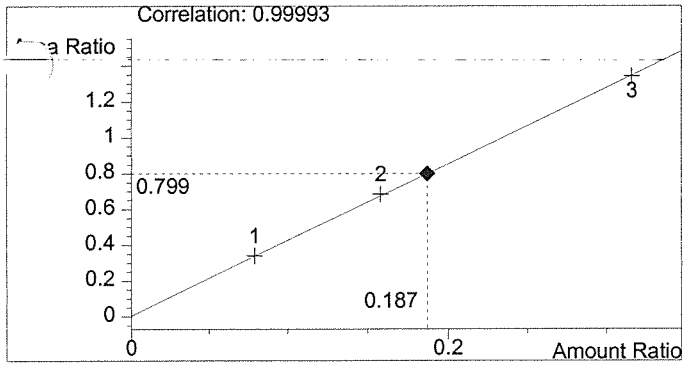
02015 0.15 QA
RUTH LUTHI

vial # 35

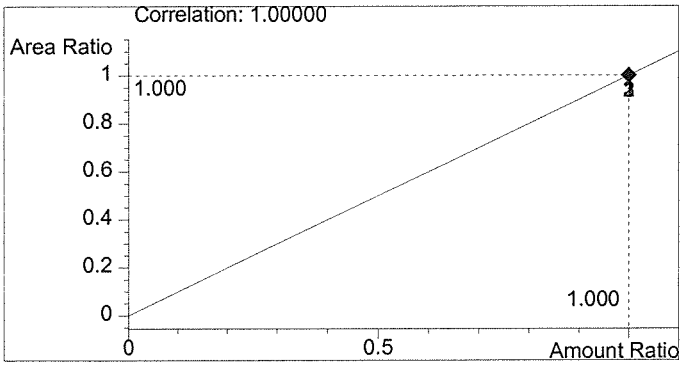


#	Compound	Area	RT
1	Ethanol	2768	1.039
2	n-Propanol	3463	1.698

Totals:



Ethanol 0.187 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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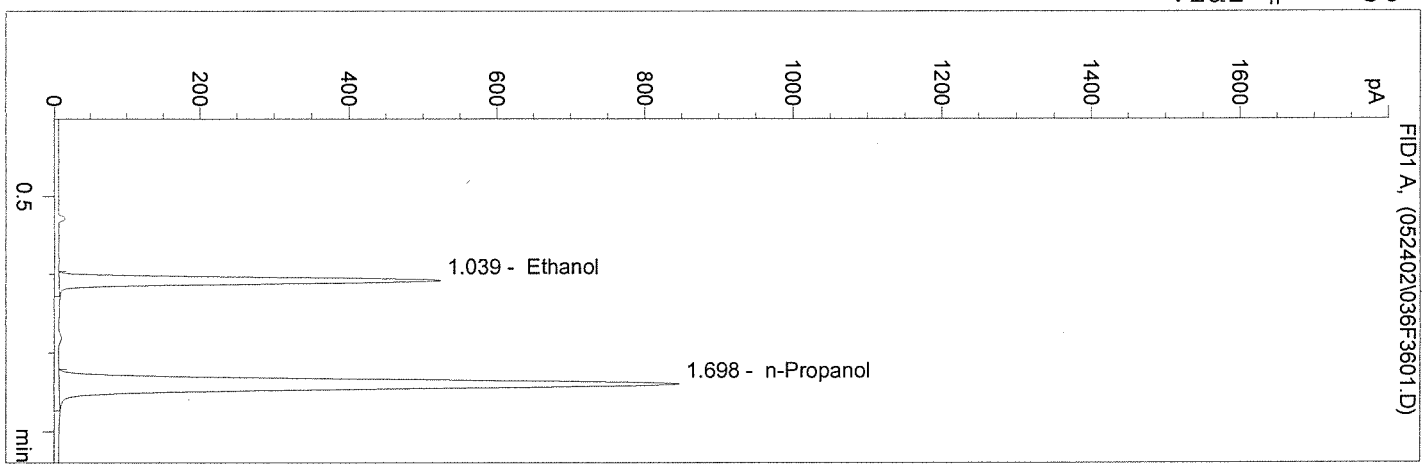
5/24/02 1:31:07 PM
Instrument 1
DB-ALC1

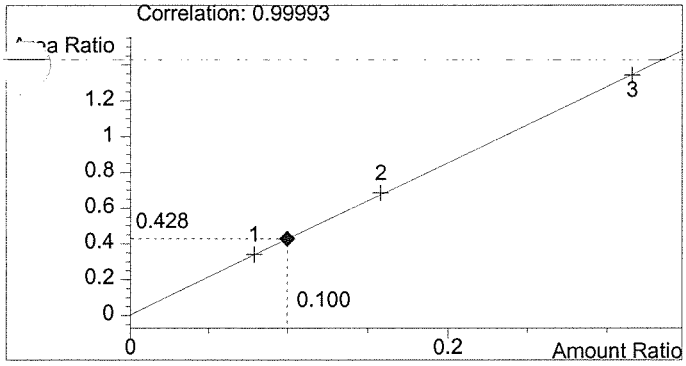
0.100 CTRL
RUTH LUTHI

vial # 36

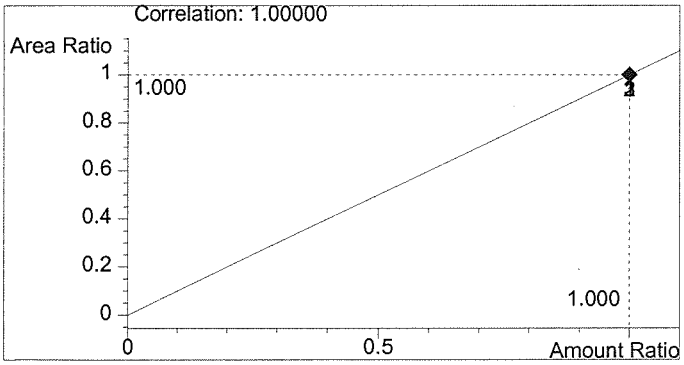


#	Compound	Area	RT
1	Ethanol	1487	1.039
2	n-Propanol	3471	1.698

Totals:



Ethanol 0.100 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

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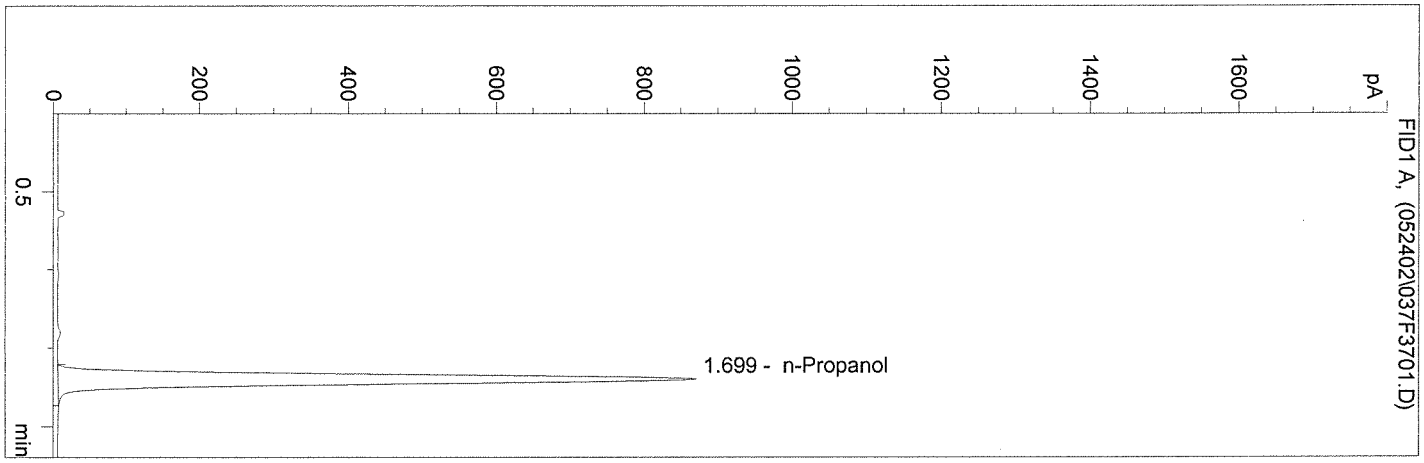
Instrument 1
-ALC1

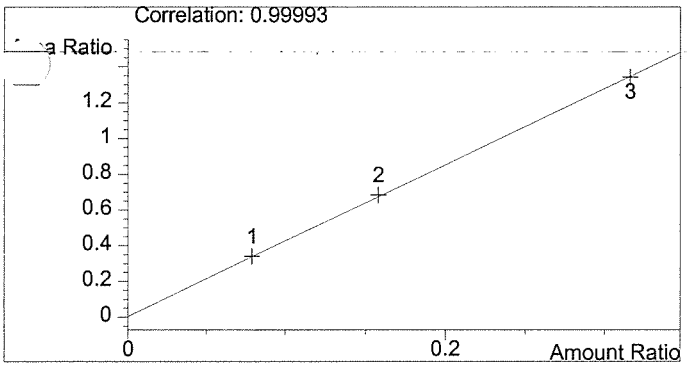
BLANK
RUTH LUTHI

vial # 37

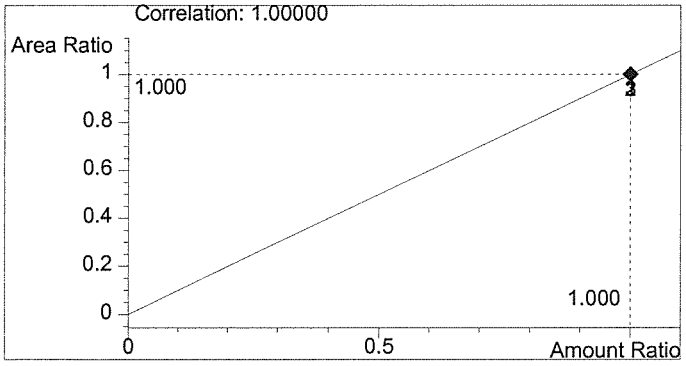


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3586	1.699

Totals:



Ethanol 0.000 g/100ml



n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

0.08 "QA" Solution

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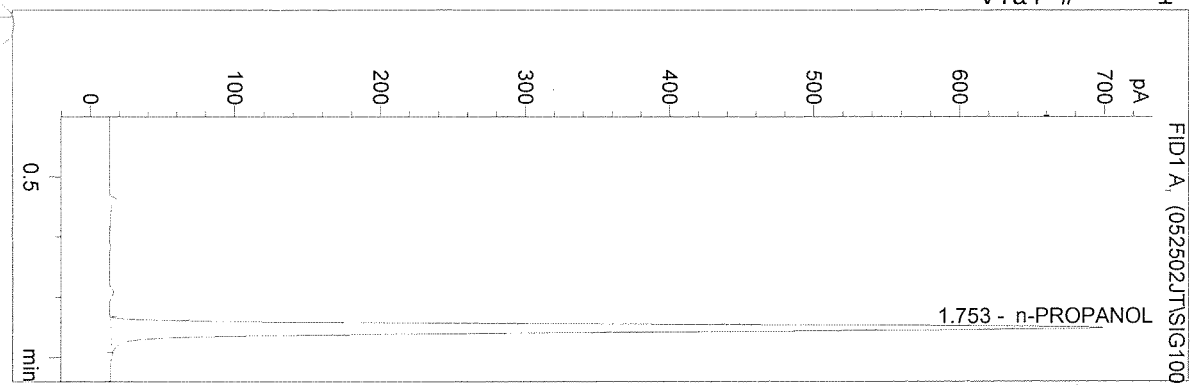
5/24/02 9:42:23 AM
Instrument 3
DB-ALC1

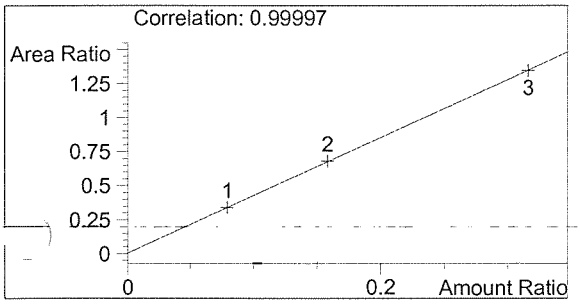
BLANK-1
JAYNE THATCHER

vial # 1

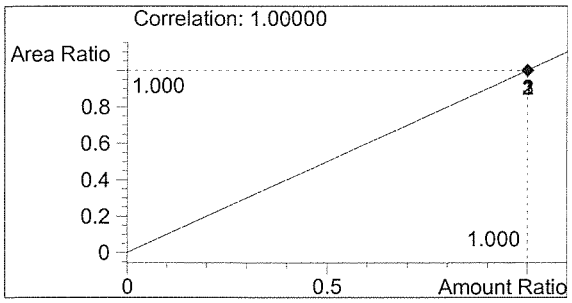


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3109	1.753

Totals:



ETHANOL 0.000 mg/L



n-PROPANOL 1.000 mg/L

C:\HPCHEM\1\METHODS\BLDALCO3.M
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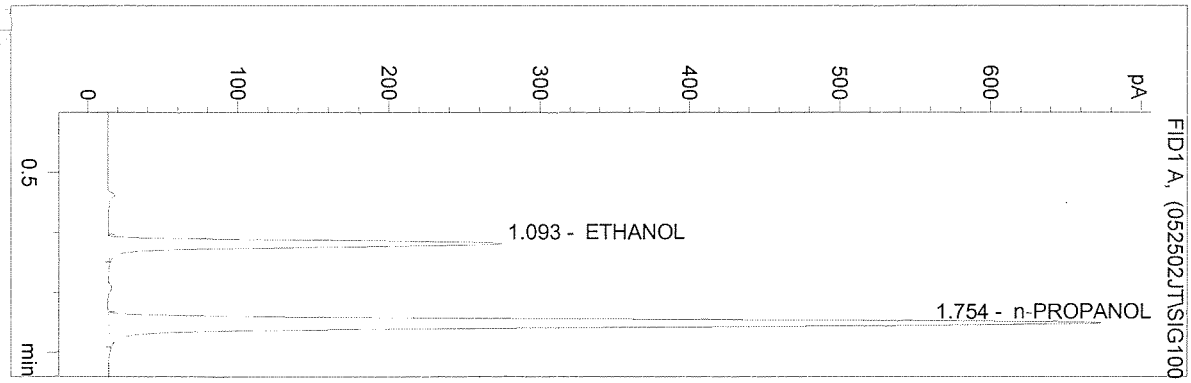
Instrument 3
DB-ALC1

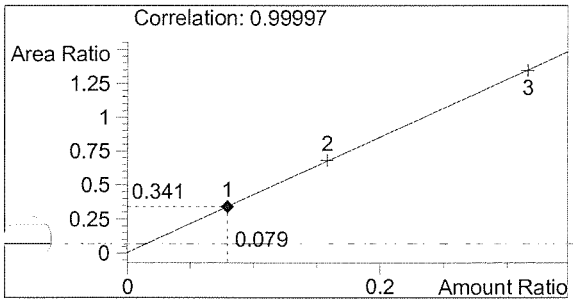
0.079 CAL
JAYNE THATCHER

vial # 2

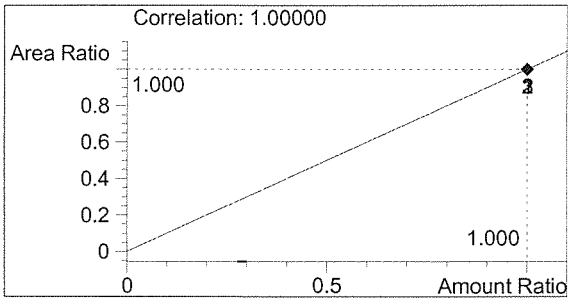


#	Compound	Area	RT
1	ETHANOL	1023	1.093
2	n-PROPANOL	2995	1.754

Totals:



ETHANOL 0.079 mg/L



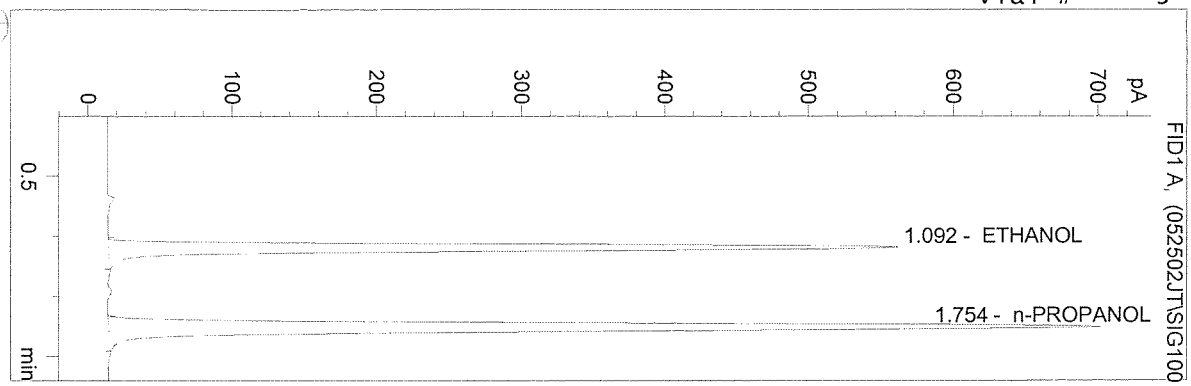
n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
5/24/02 9:49:10 AM
Instrument 3
DB-ALC1

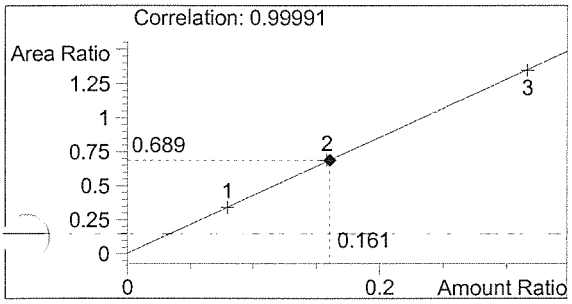
0.158 CAL
JAYNE THATCHER

vial # 3

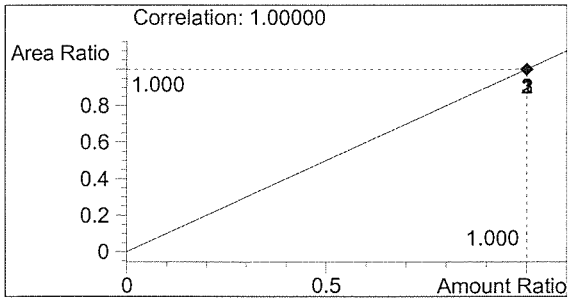


#	Compound	Area	RT
1	ETHANOL	2149	1.092
2	n-PROPANOL	3118	1.754

Totals:



ETHANOL 0.161 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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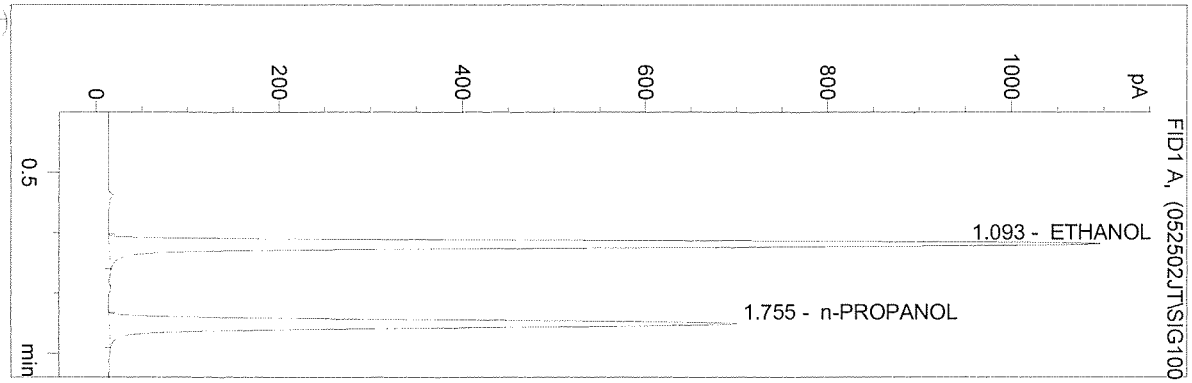
5/24/02 9:52:34 AM
Instrument 3
DB-ALC1

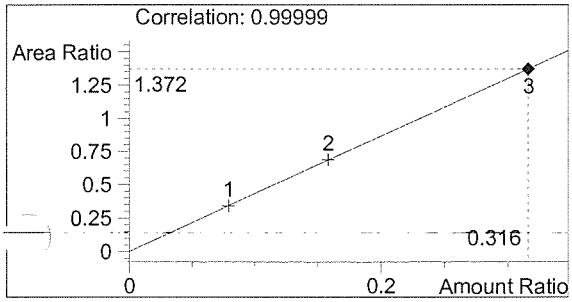
0.316 CAL
JAYNE THATCHER

vial # 4

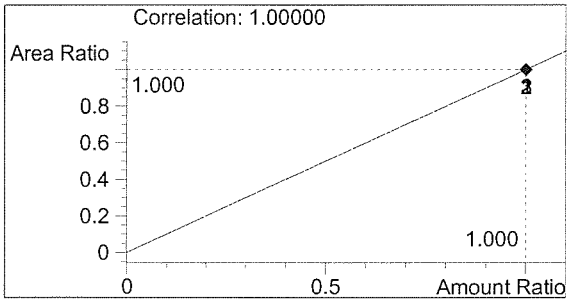


#	Compound	Area	RT
1	ETHANOL	4306	1.093
2	n-PROPANOL	3140	1.755

Totals:



ETHANOL 0.316 mg/L



n-PROPANOL 1.000 mg/L

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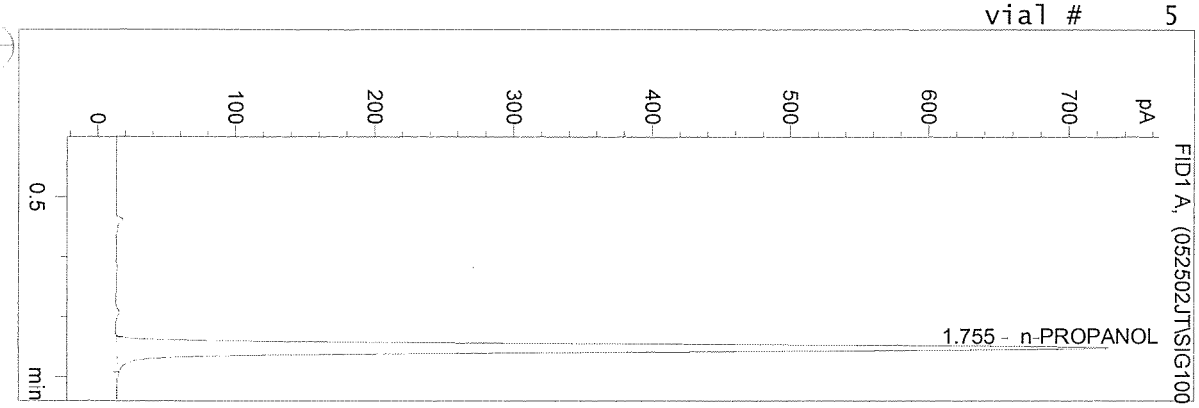
Instrument 3
DB-ALC1

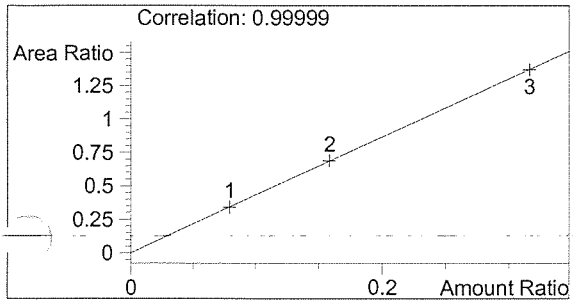
BLANK-2
JAYNE THATCHER

vial # 5

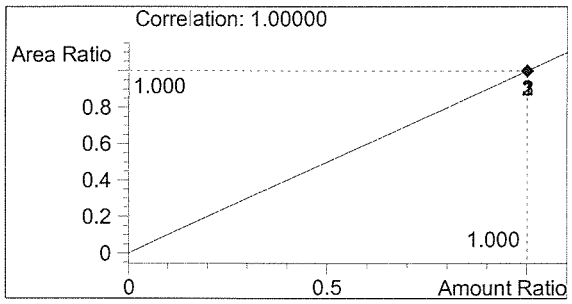


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3254	1.755

Totals:



ETHANOL 0.000 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

0.08 QA

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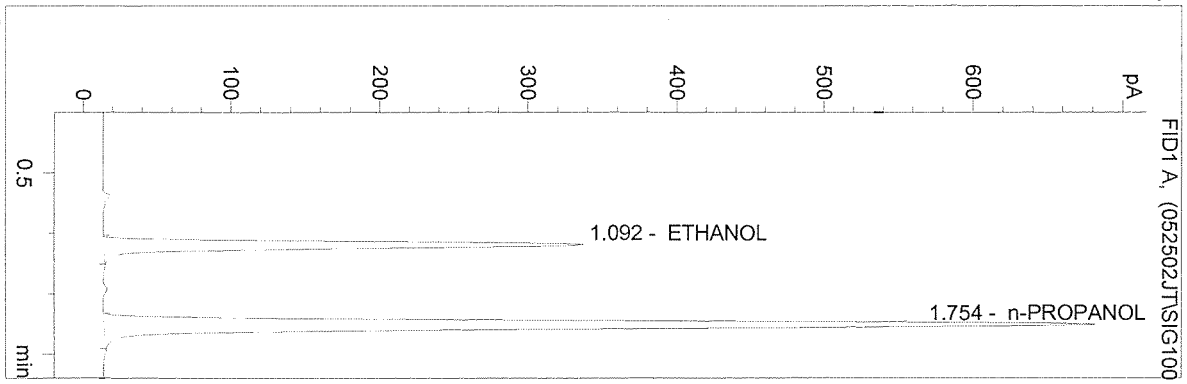
Instrument 3
DB-ALC1

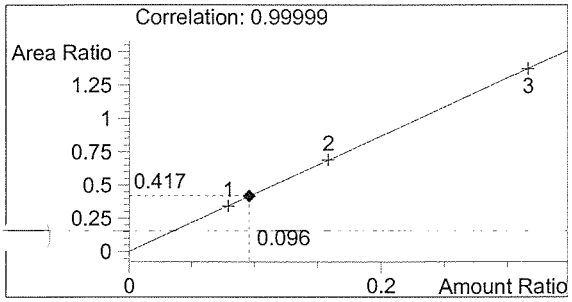
~~02009 SIM~~
JAYNE THATCHER

vial # 6

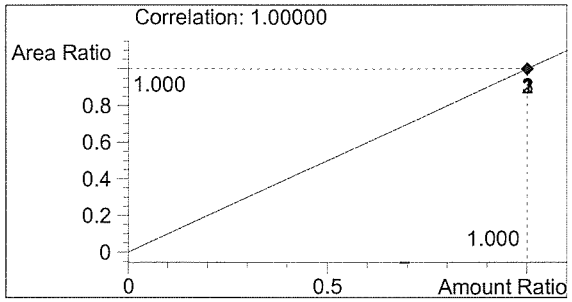


#	Compound	Area	RT
1	ETHANOL	1270	1.092
2	n-PROPANOL	3043	1.754

Totals:



ETHANOL 0.096 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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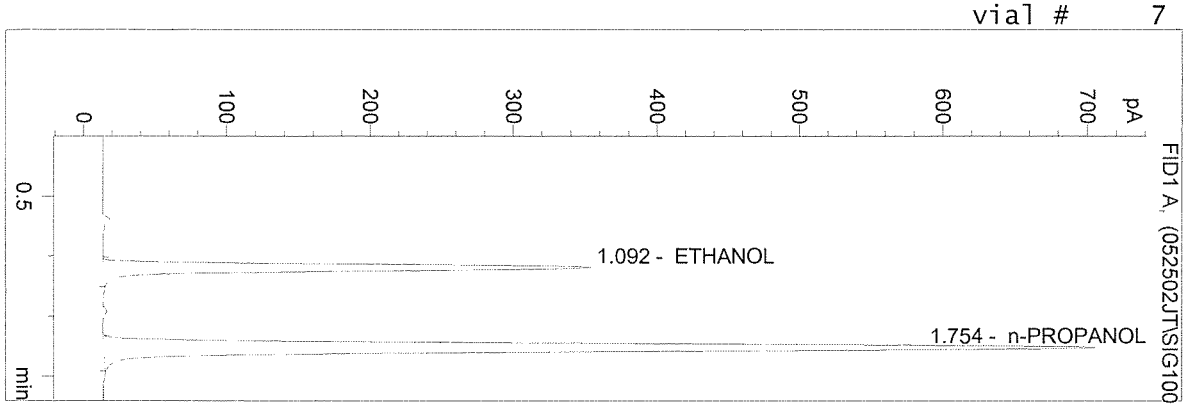
Instrument 3
DB-ALC1

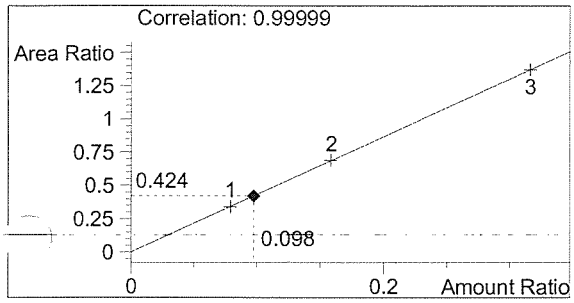
0.08 OK
~~02009 SIM~~
JAYNE THATCHER

vial # 7

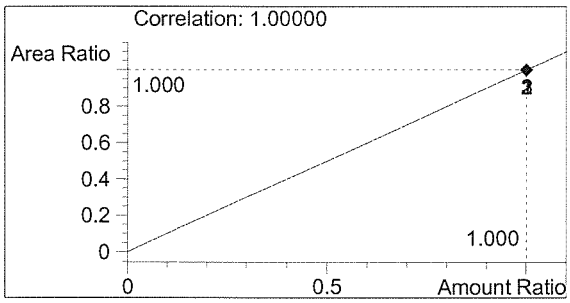


#	Compound	Area	RT
1	ETHANOL	1336	1.092
2	n-PROPANOL	3149	1.754

Totals:



ETHANOL 0.098 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

0.08 QA

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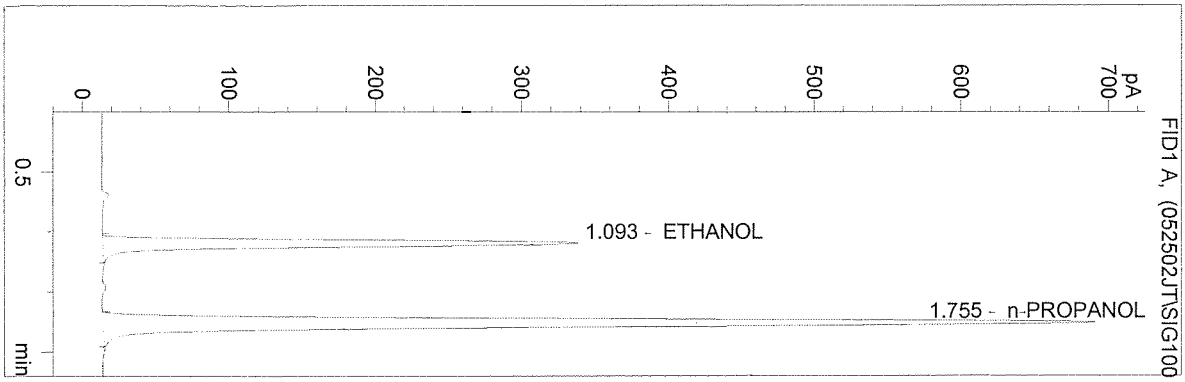
5/24/02 10:06:07 AM
Instrument 3
DB-ALC1

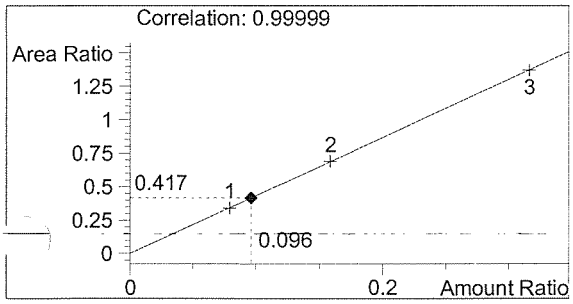
~~02009 SIM~~
JAYNE THATCHER

vial # 8

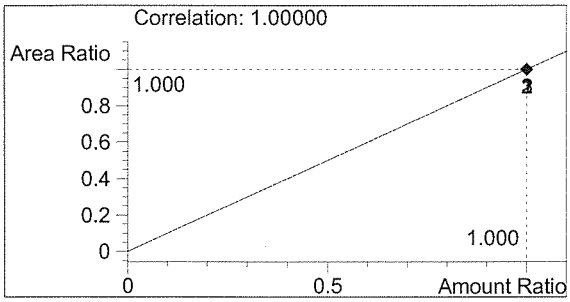


#	Compound	Area	RT
1	ETHANOL	1290	1.093
2	n-PROPANOL	3091	1.755

Totals:



ETHANOL 0.096 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

0.08 QA

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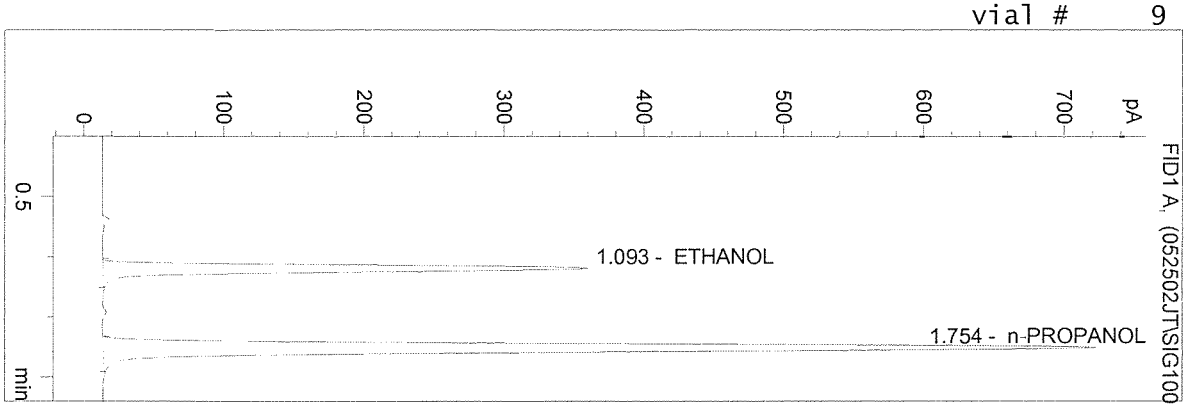
5/24/02 10:09:30 AM
Instrument 3
DB-ALC1

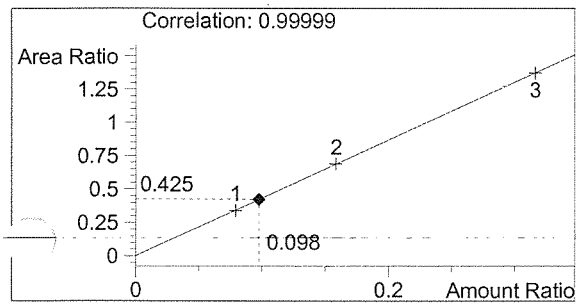
~~02009 SIM~~
JAYNE THATCHER

vial # 9

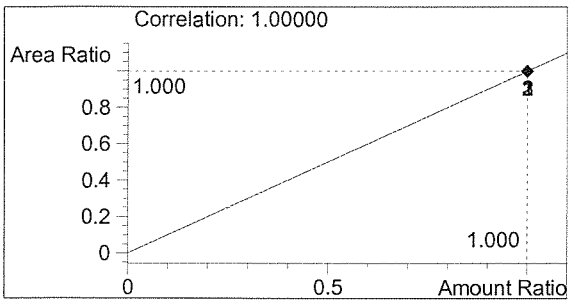


#	Compound	Area	RT
1	ETHANOL	1373	1.093
2	n-PROPANOL	3234	1.754

Totals:



ETHANOL 0.098 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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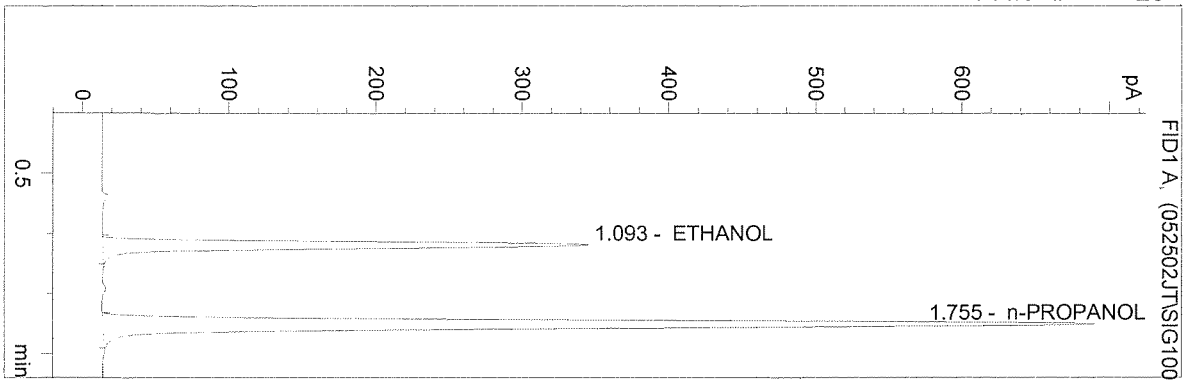
Instrument 3
DB-ALC1

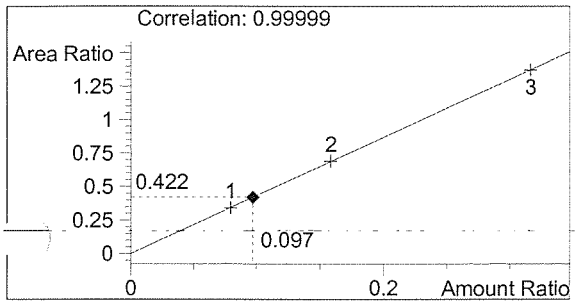
0.08 QA
~~02009~~ SIM
JAYNE THATCHER

vial # 10

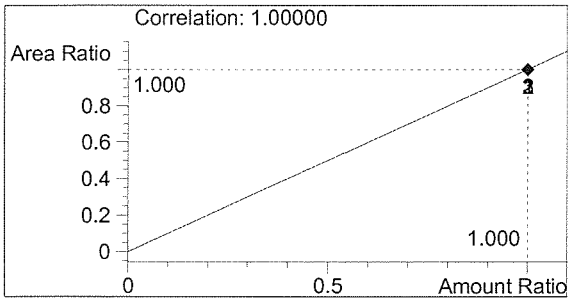


#	Compound	Area	RT
1	ETHANOL	1295	1.093
2	n-PROPANOL	3068	1.755

Totals:



ETHANOL 0.097 mg/L



n-PROPANOL 1.000 mg/L

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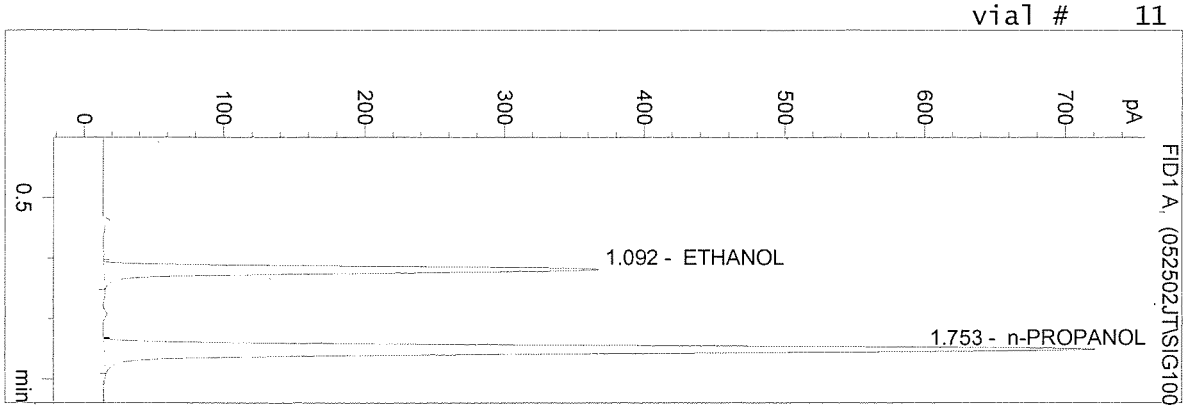
Instrument 3
DB-ALC1

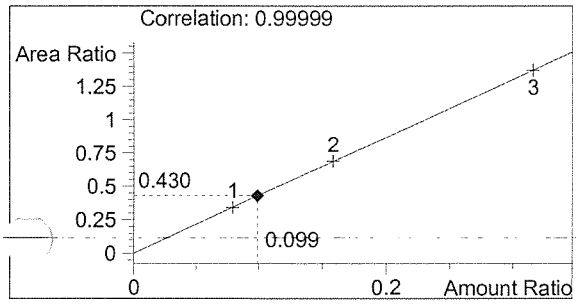
0.10 CONTROL
JAYNE THATCHER

vial # 11

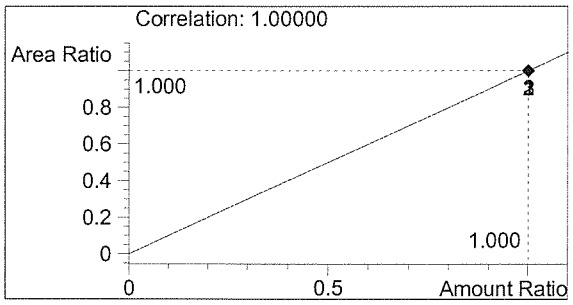


#	Compound	Area	RT
1	ETHANOL	1379	1.092
2	n-PROPANOL	3204	1.753

Totals:



ETHANOL 0.099 mg/L



n-PROPANOL 1.000 mg/L

WASHINGTON STATE TOXICOLOGY LABORATORY

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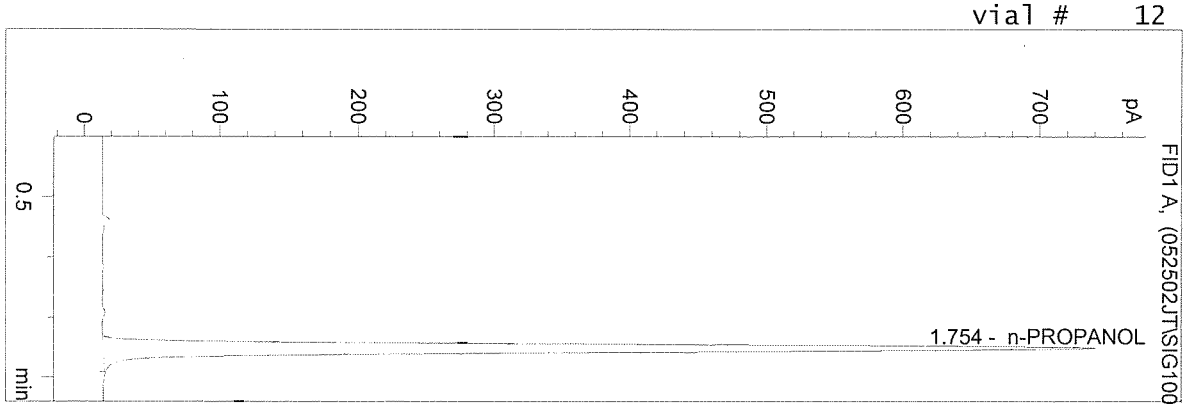
Instrument 3
DB-ALC1

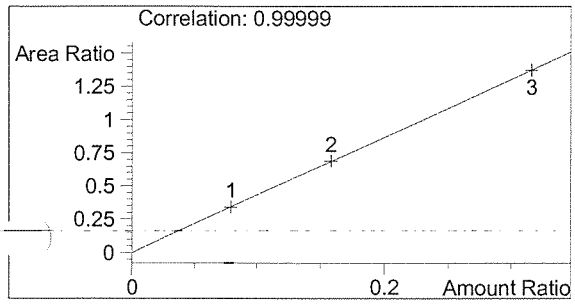
BLANK-3
JAYNE THATCHER

vial # 12

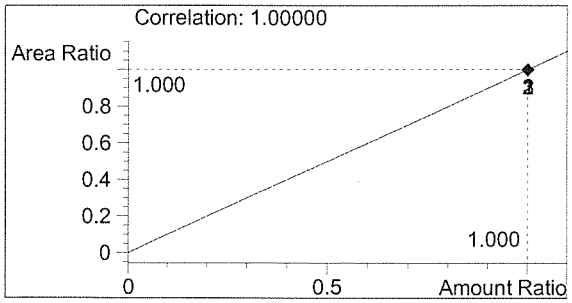


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	3300	1.754

Totals:



ETHANOL 0.000 mg/L



n-PROPANOL 1.000 mg/L