

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 **03010**

Date: 4/21/2003

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	0.048	0.048	0.048	0.048								
2	0.048	0.048	0.048	0.048								
3	0.048	0.048	0.048	0.048								
4	0.048	0.048	0.048	0.048								
5	0.048	0.048	0.048	0.048								
Ctrl	0.098	0.099	0.099	0.099								

External Control:

Lot #: A022167 Exp date: 01/05

Target concentration: 0.10 g/100mL

Statistics:

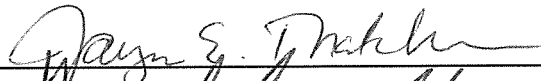
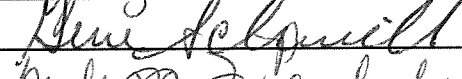

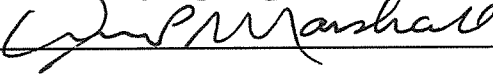
Avg. solution concent.: 0.0480 g/100 mL

SD: ?

Range (3xSD): 0.0480 to 0.0480

Precision CV (%): 0.0000 %

Equivalent vapor concent.: 0.0390 g/210L

Analyst	Name	Signature	Date
1	Jayne E. Thatcher		04/21/03
2	Eugene Schwilke		04/22/03
3	Melissa Pemberton		04/25/03
4	William P Marshall		04/24/03
5			
6			
7			
8			
9			
10			
11			
12			

Prepared by: Jayne E. Thatcher

according to the approved protocol



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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

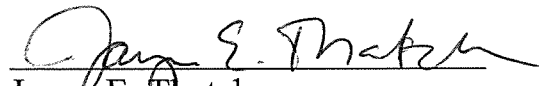
I, Jayne E. Thatcher, do certify under penalty of perjury as follows:

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

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

The quality assurance solution, Lot Number 03010, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0480 grams per 100ml.

Dated: 4/29/03
Seattle, WA


Jayne E. Thatcher
Forensic Toxicologist

JET/bf
JTQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

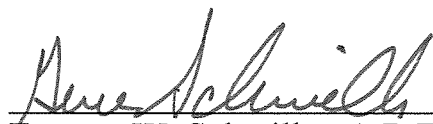
I, Eugene W. Schwilke, do certify under penalty of perjury that:

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 six years of experience in the Washington State Toxicology Laboratory.

The quality assurance solution, Lot Number 03010 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0480 grams per 100ml.

Dated: 4/29/03
Seattle, WA


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

GS/bf
GSQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

I, Melissa L. Pemberton, do certify under penalty of perjury that:

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

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

The quality assurance solution, Lot Number 03010 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0480 grams per 100ml.

Dated: 4/29/03
Seattle, WA

Melissa L. Pemberton
Forensic Toxicologist

MP/bf
MPQA





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BAC VERIFIER DATAMASTER QUALITY ASSURANCE SOLUTION
CERTIFICATION

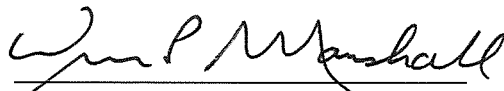
I, William P. Marshall, do certify under penalty of perjury that:

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-nine years of analytical laboratory experience including thirteen years of toxicology experience.

The quality assurance solution, Lot Number 03010 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0480 grams per 100ml.

Dated: 4/29/03
Seattle, WA



William P. Marshall
Forensic Toxicologist

WM/bf
WMQA



Sequence Parameters:

Operator: Jayne E. Thatcher
 Data File Naming: Auto
 Data Directory: C:\HPCHEM\1\DATA\
 Data Subdirectory: 042103J
 Part of Methods to run: According to Runtime Checklist
 Barcode Reader: not used
 Shutdown Cmd/Macro: none
 Sequence Comment:

*SEARCHING
 IN 032454*

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	03010 QA soln	BLDALCO	1	Sample		
2	2	03010 QA soln	BLDALCO	1	Sample		
3	3	03010 QA soln	BLDALCO	1	Sample		
4	4	03010 QA soln	BLDALCO	1	Sample		
5	5	03010 QA soln	BLDALCO	1	Sample		
6	6	0.10 control	BLDALCO	1	Ctrl Samp		
7	7	blank	BLDALCO	1	Sample		

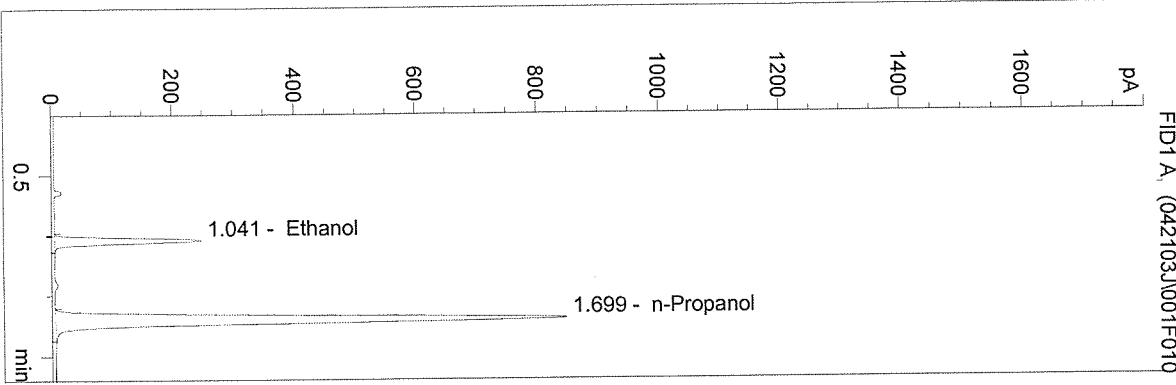
Sequence Table (Back Injector):

No entries - empty table!

\\HPCHEM\1\METHODS\BLDALCO.M
 2/1/03 2:08:55 PM
 Instrument 1
 ALC1

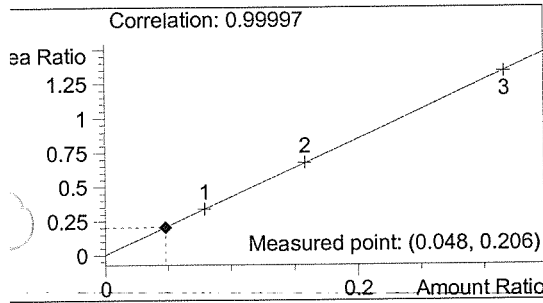
03010 QA soln
 Jayne E. Thatcher

vial # 1

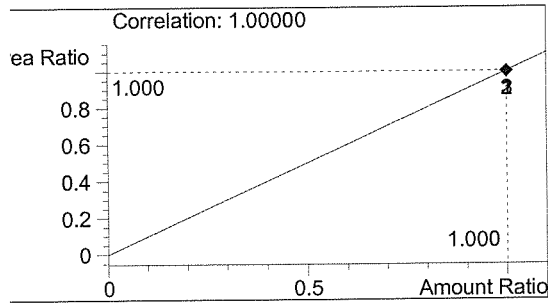


#	Compound	Area	RT
1	Ethanol	729	1.041
2	n-Propanol	3530	1.699

Totals:



Ethanol 0.048 g/100ml

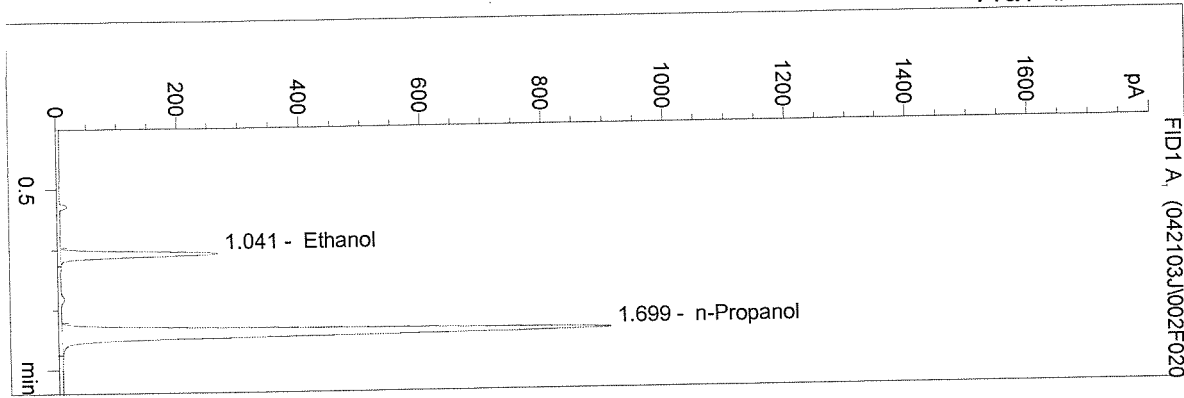


n-Propanol 1.000 g/100ml

HPCHEM\1\METHODS\BLDALCO.M
 1/03 2:11:57 PM
 trument 1
 ALC1

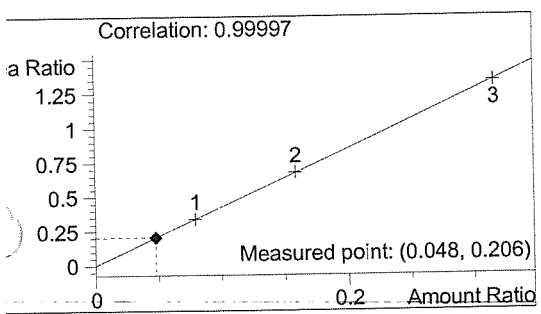
03010 QA soln
 Jayne E. Thatcher

vial # 2

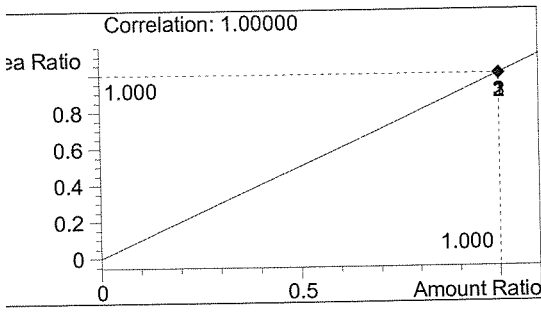


#	Compound	Area	RT
1	Ethanol	780	1.041
2	n-Propanol	3793	1.699

Totals:



Ethanol 0.048 g/100ml

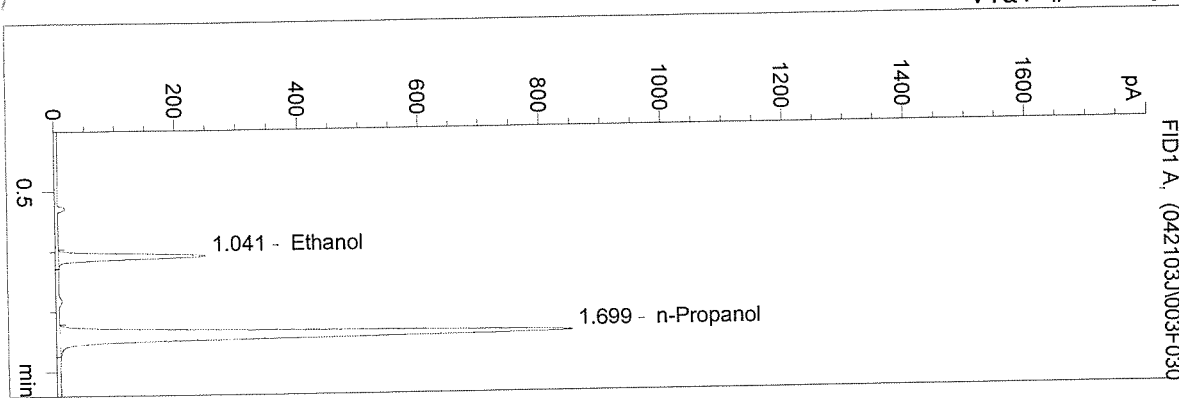


n-Propanol 1.000 g/100ml

HPCHEM\1\METHODS\BLDALCO.M
 1/03 2:14:58 PM
 trument 1
 ALC1

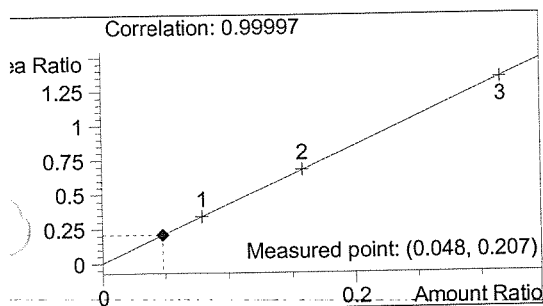
03010 QA soln
 Jayne E. Thatcher

vial # 3

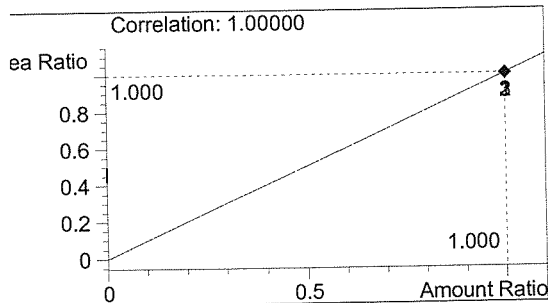


#	Compound	Area	RT
1	Ethanol	732	1.041
2	n-Propanol	3536	1.699

Totals:



Ethanol 0.048 g/100ml

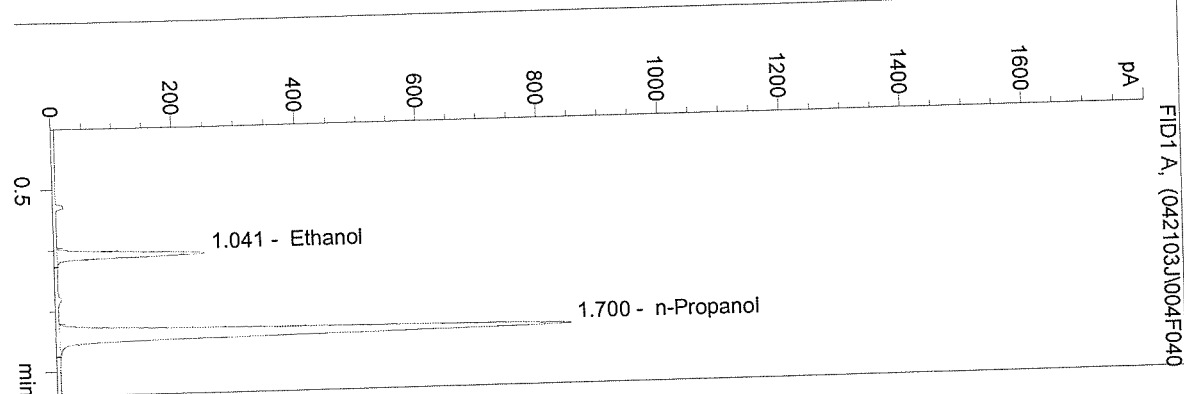


n-Propanol 1.000 g/100ml

PCHEM\1\METHODS\BLDALCO.M
 /03 2:18:00 PM
 rument 1
 LC1

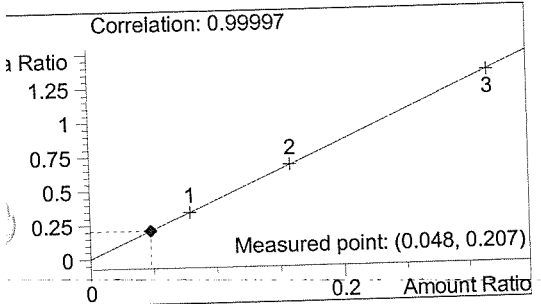
03010 QA soln
 Jayne E. Thatcher

vial # 4

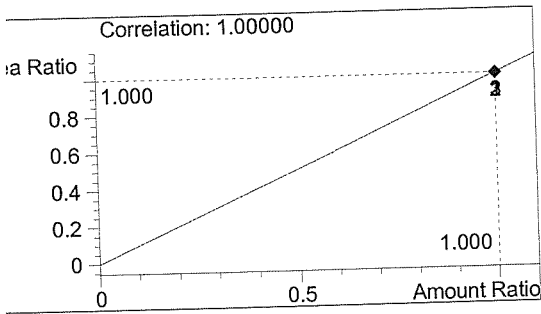


#	Compound	Area	RT
1	Ethanol	730	1.041
2	n-Propanol	3530	1.700

Totals:



Ethanol 0.048 g/100ml

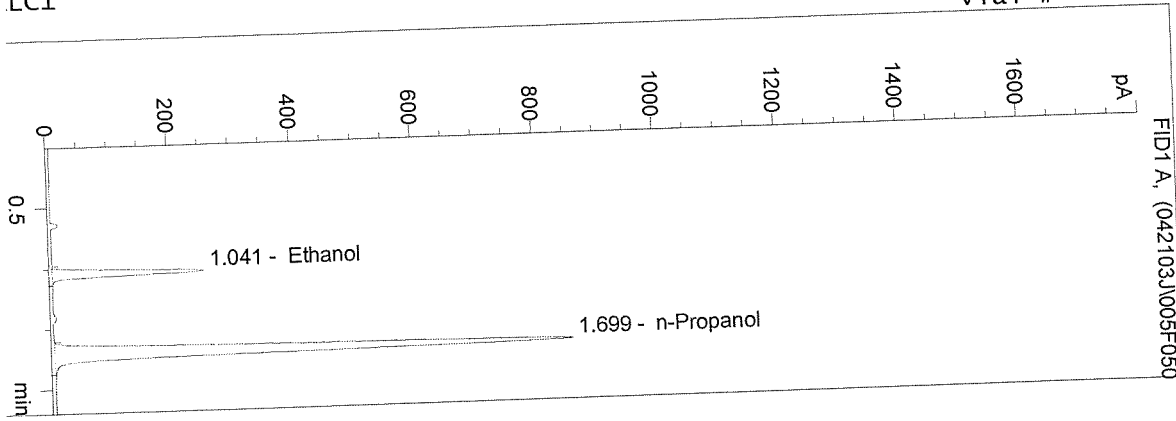


n-Propanol 1.000 g/100ml

PCHEM\1\METHODS\BLDALCO.M
 /03 2:21:38 PM
 rument 1
 LC1

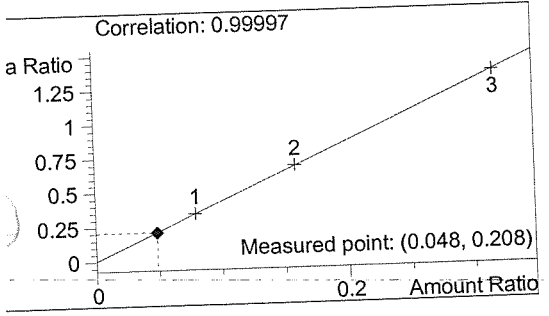
03010 QA soln
 Jayne E. Thatcher

vial # 5

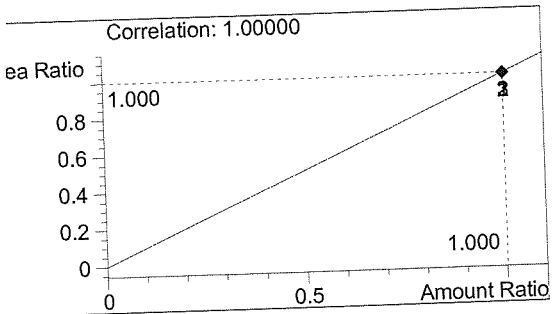


#	Compound	Area	RT
1	Ethanol	745	1.041
2	n-Propanol	3572	1.699

Totals:



Ethanol 0.048 g/100ml

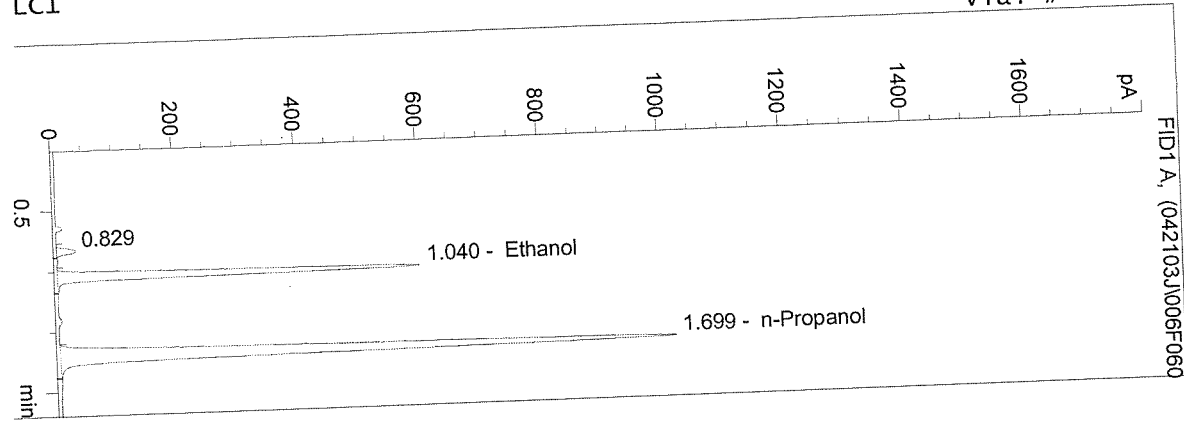


n-Propanol 1.000 g/100ml

PCHEM\1\METHODS\BLDALCO.M
 /03 2:24:39 PM
 rument 1
 LC1

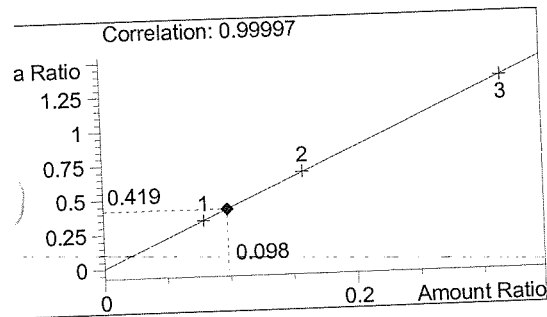
0.10 control
 Jayne E. Thatcher

vial # 6

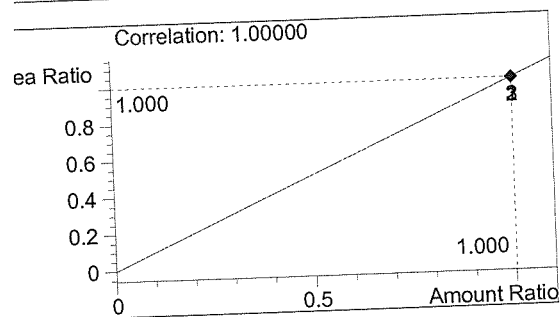


#	Compound	Area	RT
1		94	0.829
2	Ethanol	1781	1.040
3	n-Propanol	4253	1.699

Totals:



Ethanol 0.098 g/100ml

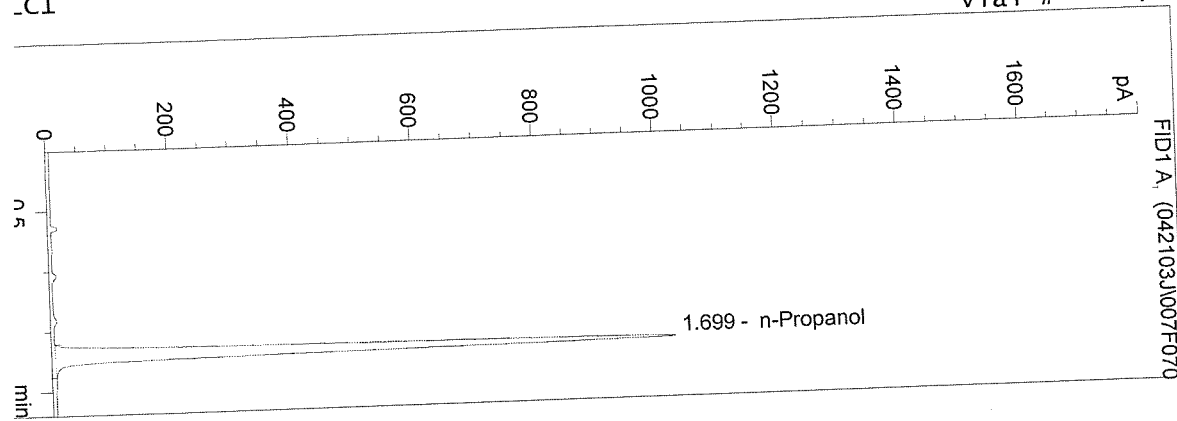


n-Propanol 1.000 g/100ml

\\CHEM\1\METHODS\BLDALCO.M
 /03 2:27:41 PM
 Document 1
 .C1

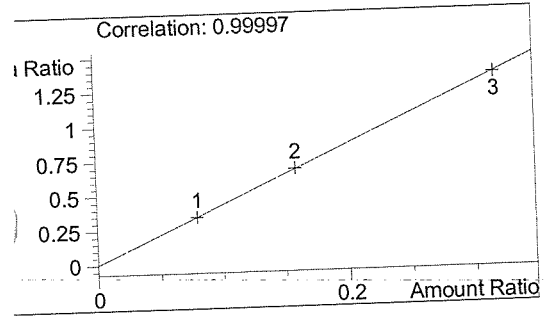
blank
 Jayne E. Thatcher

vial # 7

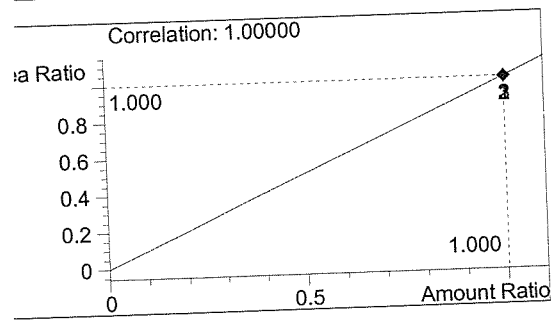


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	4268	1.699

Totals:



Ethanol 0.000 g/100ml



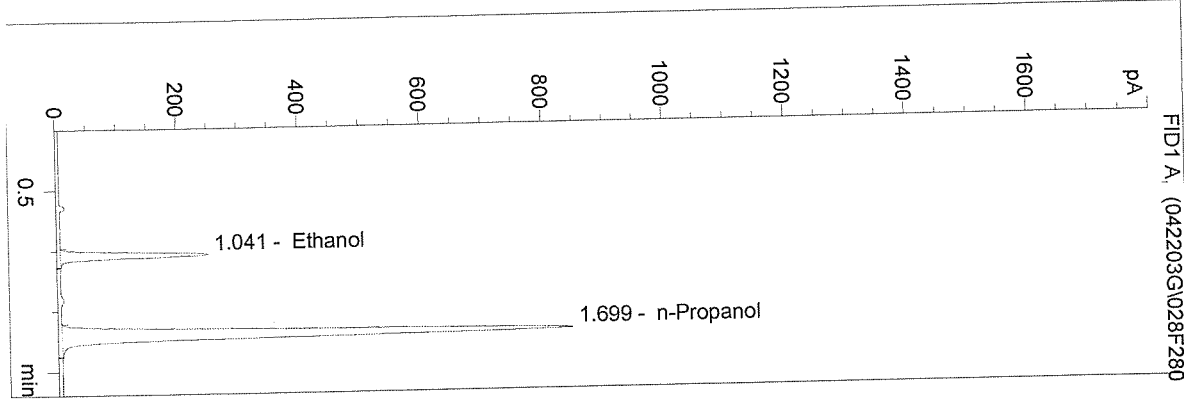
n-Propanol 1.000 g/100ml

STDS
032485

HPCHEM\1\METHODS\BLDALCO.M
2/03 1:43:16 PM
Instrument 1
ALC1

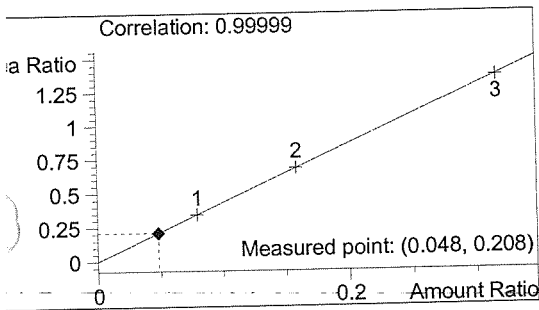
0.04 QASOL 03010
Gene Schwilke

vial # 28

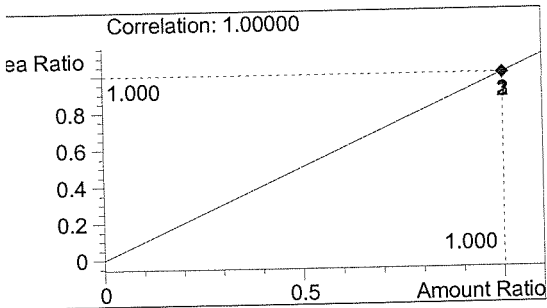


#	Compound	Area	RT
1	Ethanol	737	1.041
2	n-Propanol	3535	1.699

Totals:



Ethanol 0.048 g/100ml

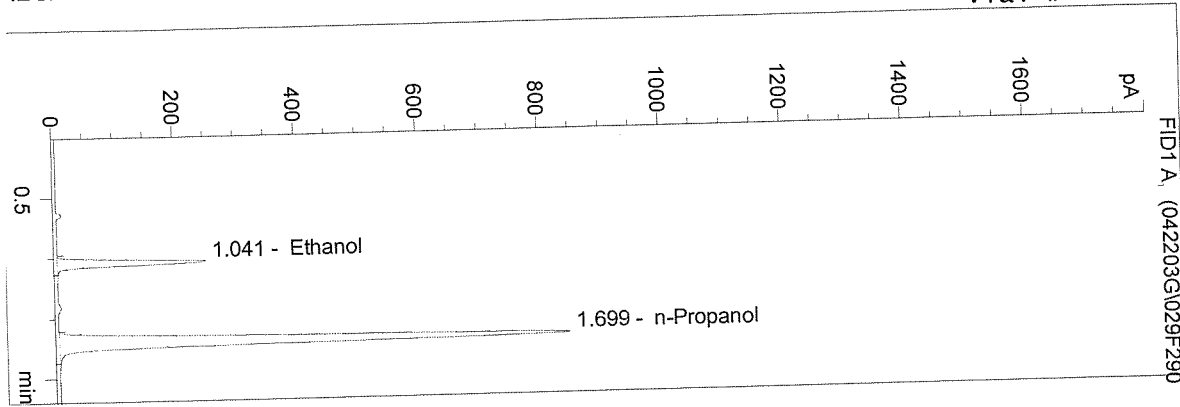


n-Propanol 1.000 g/100ml

IPCHEM\1\METHODS\BLDALCO.M
 2/03 1:46:18 PM
 Instrument 1
 ALC1

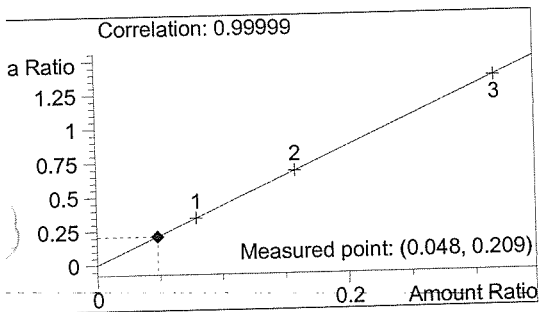
0.04 QASOL 03010
 Gene Schwilke

vial # 29

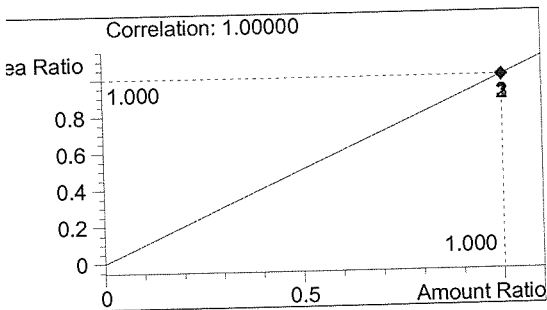


#	Compound	Area	RT
1	Ethanol	739	1.041
2	n-Propanol	3532	1.699

Totals:



Ethanol 0.048 g/100ml

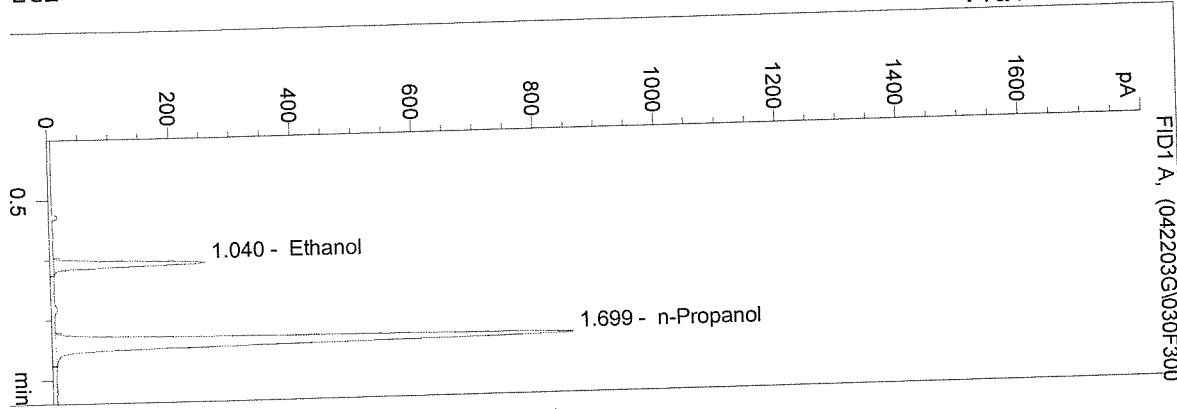


n-Propanol 1.000 g/100ml

PCHEM\1\METHODS\BLDALCO.M
 /03 1:49:20 PM
 rument 1
 LC1

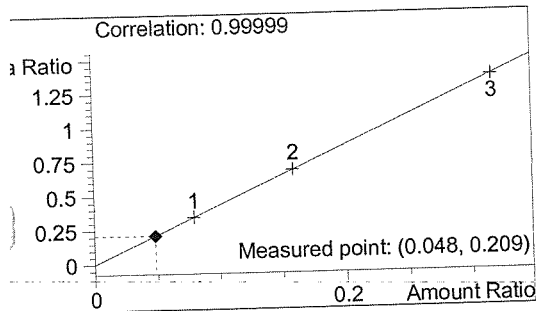
0.04 QASOL 03010
 Gene Schwilke

vial # 30

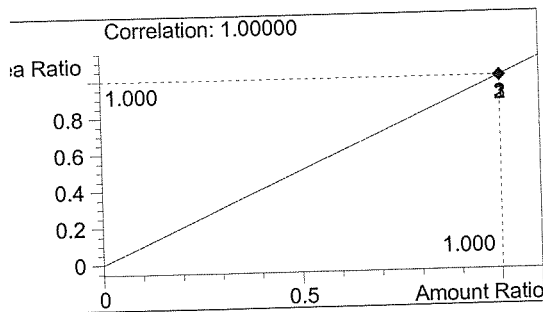


#	Compound	Area	RT
1	Ethanol	748	1.040
2	n-Propanol	3578	1.699

Totals:



Ethanol 0.048 g/100ml

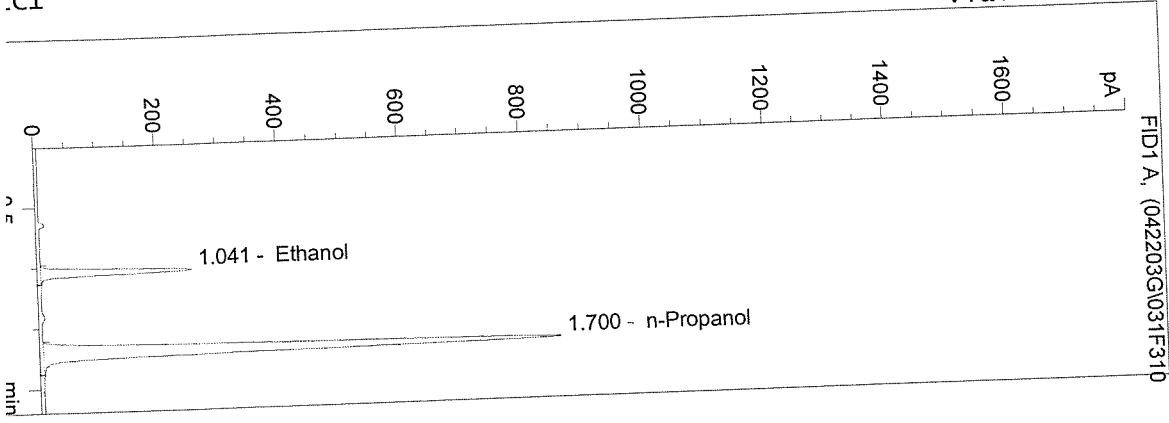


n-Propanol 1.000 g/100ml

CHEM\1\METHODS\BLDALCO.M
 03 1:52:22 PM
 Document 1
 .C1

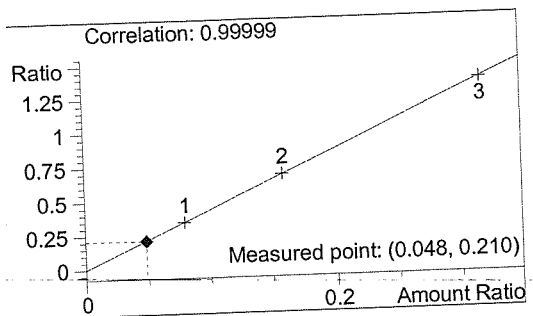
0.04 QASOL 03010
 Gene Schwilke

vial # 31

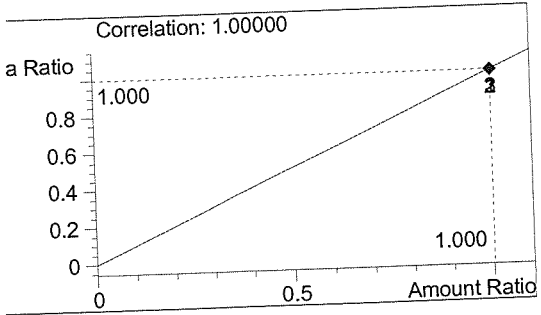


#	Compound	Area	RT
1	Ethanol	752	1.041
2	n-Propanol	3583	1.700

Totals:



Ethanol 0.048 g/100ml

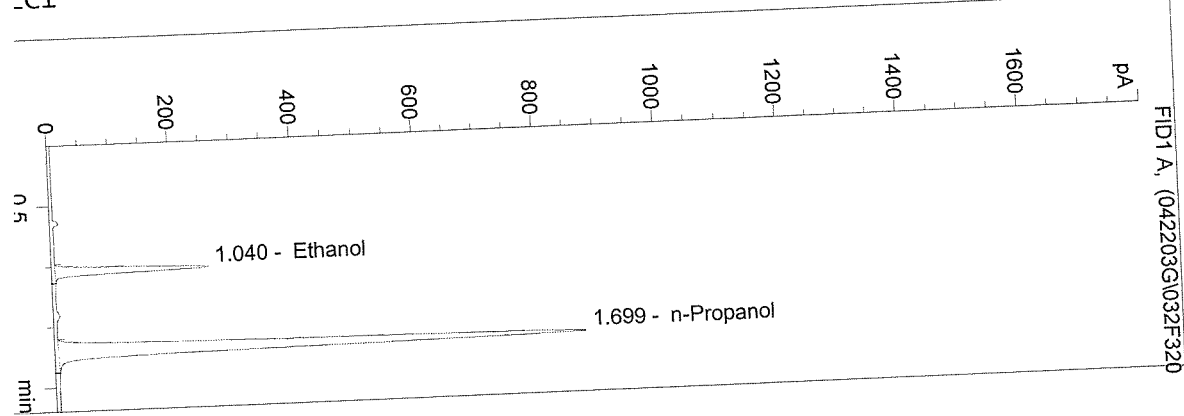


n-Propanol 1.000 g/100ml

\\CHEM\1\METHODS\BLDALCO.M
 /03 1:55:24 PM
 ument 1
 _C1

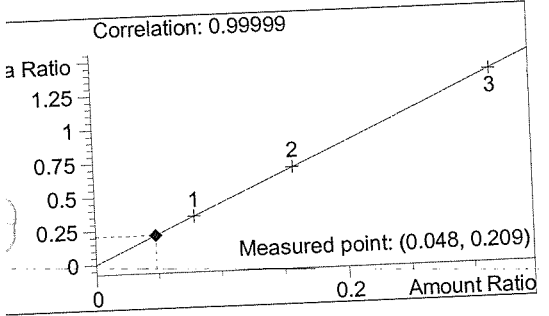
0.04 QASOL 03010
 Gene Schwilke

vial # 32

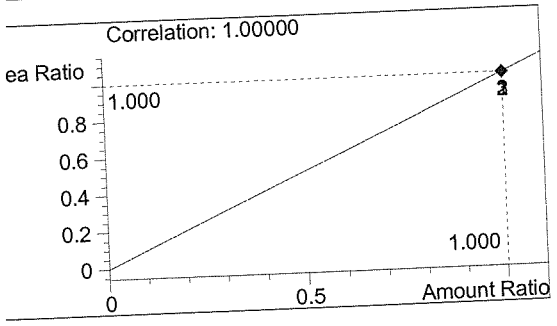


#	Compound	Area	RT
1	Ethanol	764	1.040
2	n-Propanol	3650	1.699

Totals:



Ethanol 0.048 g/100ml

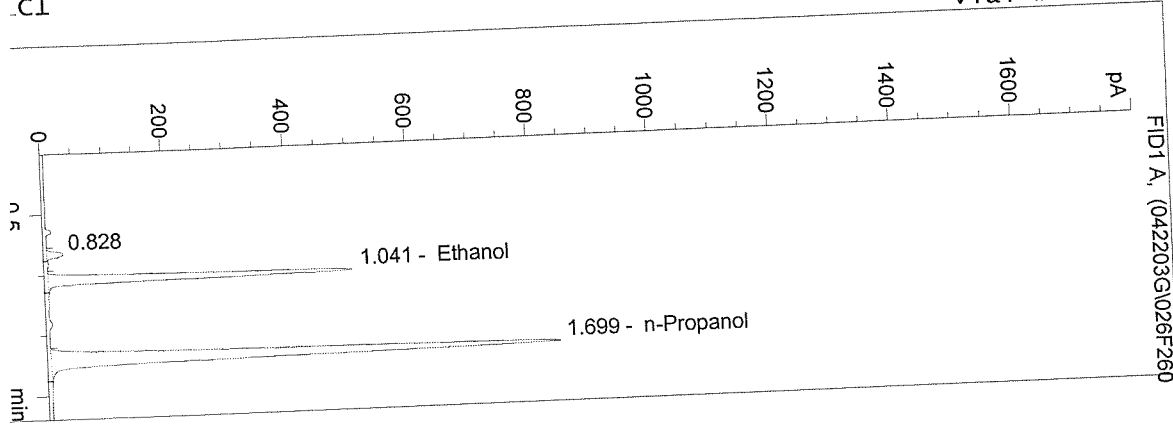


n-Propanol 1.000 g/100ml

'CHEM\1\METHODS\BLDALCO.M
'03 1:37:13 PM
ument 1
C1

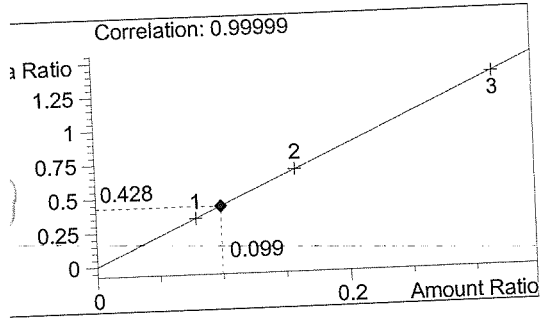
CAP 0.100
Gene Schwilke

vial # 26

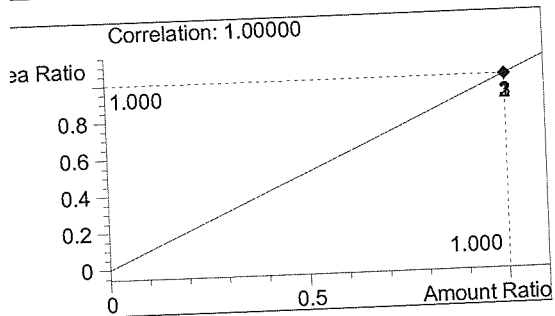


#	Compound	Area	RT
1		80	0.828
2	Ethanol	1509	1.041
3	n-Propanol	3528	1.699

Totals:



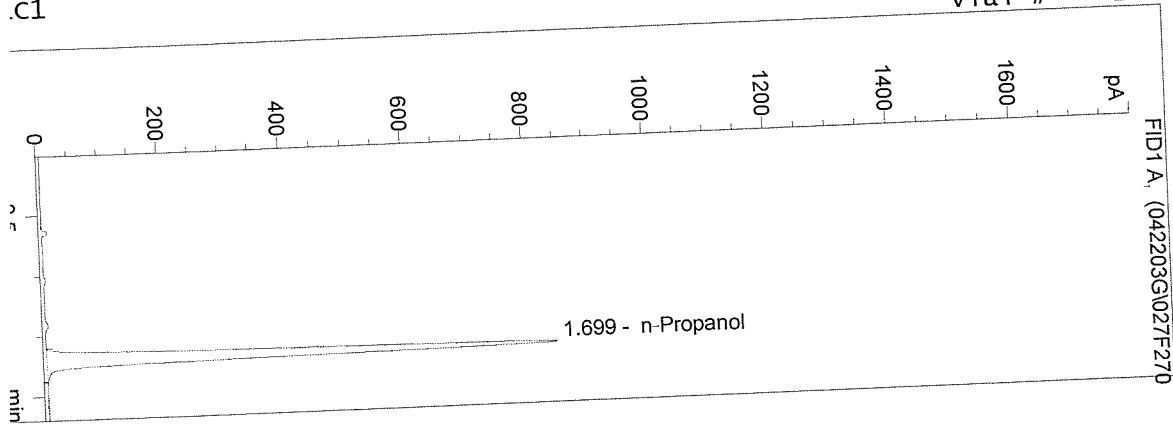
Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

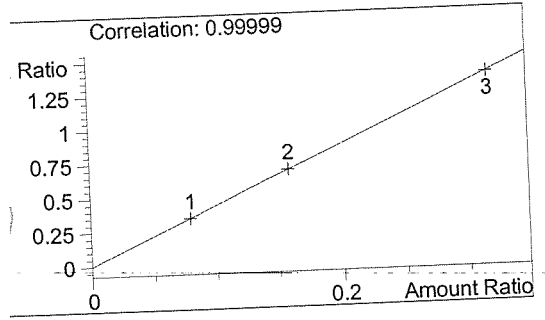
CHEM\1\METHODS\BLDALCO.M
 03 1:40:15 PM
 Document 1
 .c1

BLANK
 Gene Schwilke
 vial # 27

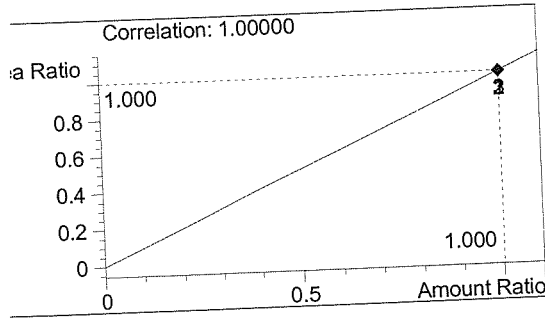


#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3538	1.699

Totals:



Ethanol 0.000 g/100ml

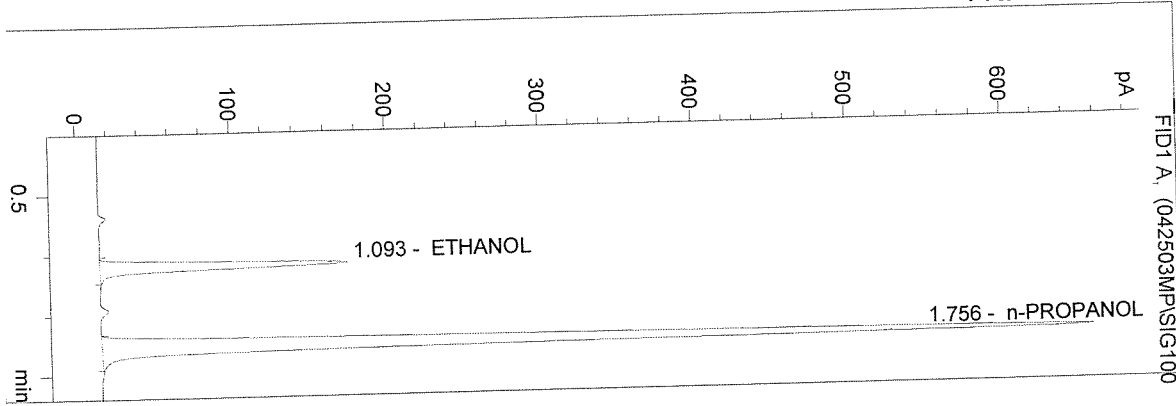


n-Propanol 1.000 g/100ml

IPCHEM\1\METHODS\BLDALCO3.M
 /03, 9:02:21 AM
 rument 3
 LCL1

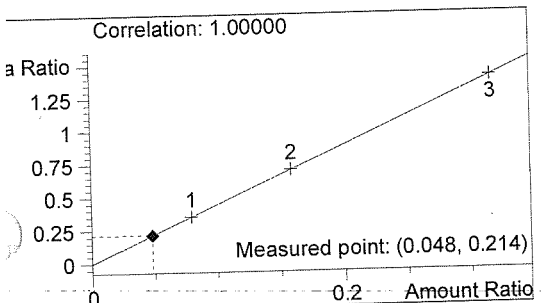
03010 0.04QA
 M PEMBERTON

vial # 18

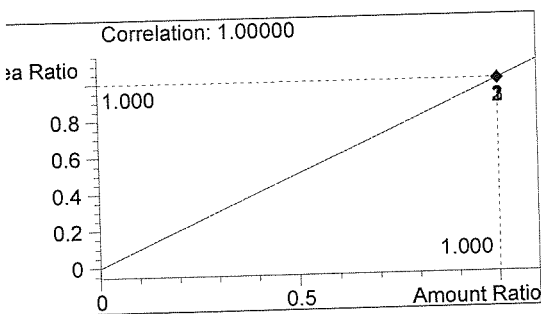


#	Compound	Area	RT
1	ETHANOL	628	1.093
2	n-PROPANOL	2935	1.756

Totals:



ETHANOL 0.048 g/100mL

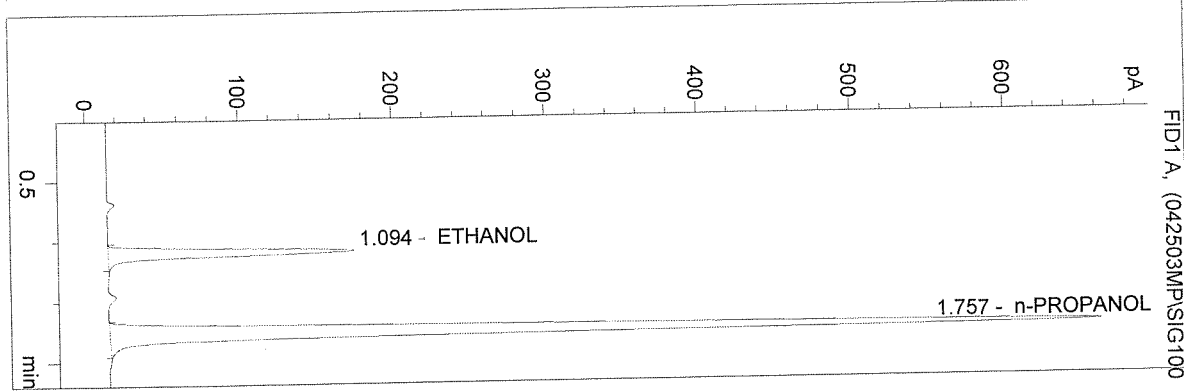


n-PROPANOL 1.000 g/100mL

HPCHEM\1\METHODS\BLDALCO3.M
 5/03 9:05:43 AM
 trument 3
 ALC1

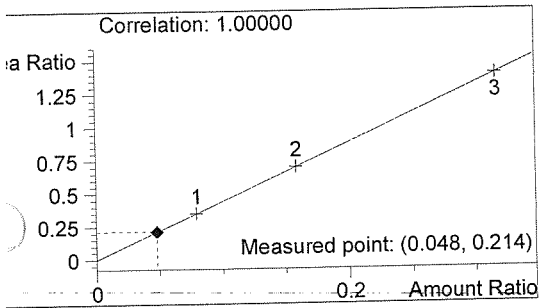
03010 0.04 QA
 M PEMBERTON

vial # 19

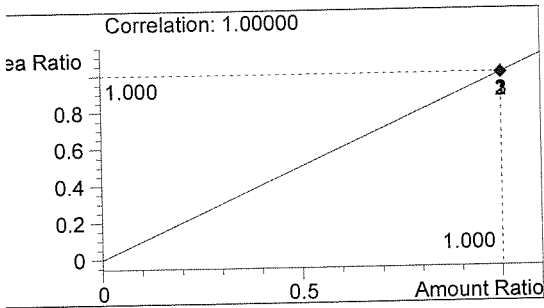


#	Compound	Area	RT
1	ETHANOL	631	1.094
2	n-PROPANOL	2954	1.757

Totals:



ETHANOL 0.048 g/100mL

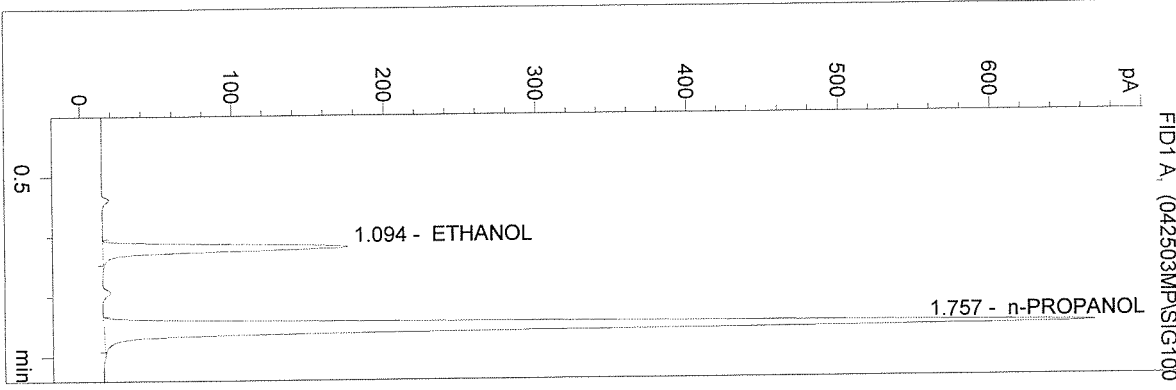


n-PROPANOL 1.000 g/100mL

\\HPCHEM\1\METHODS\BLDALCO3.M
 25/03 9:09:06 AM
 Instrument 3
 ALC1

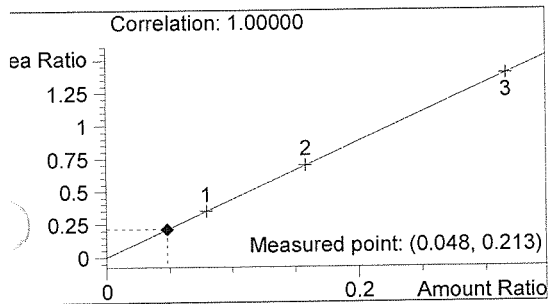
03010 0.04 QA
 M PEMBERTON

vial # 20

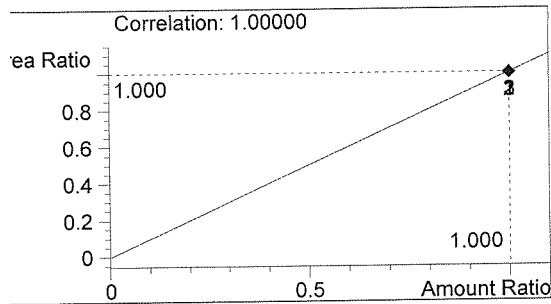


#	Compound	Area	RT
1	ETHANOL	635	1.094
2	n-PROPANOL	2975	1.757

Totals:



ETHANOL 0.048 g/100mL

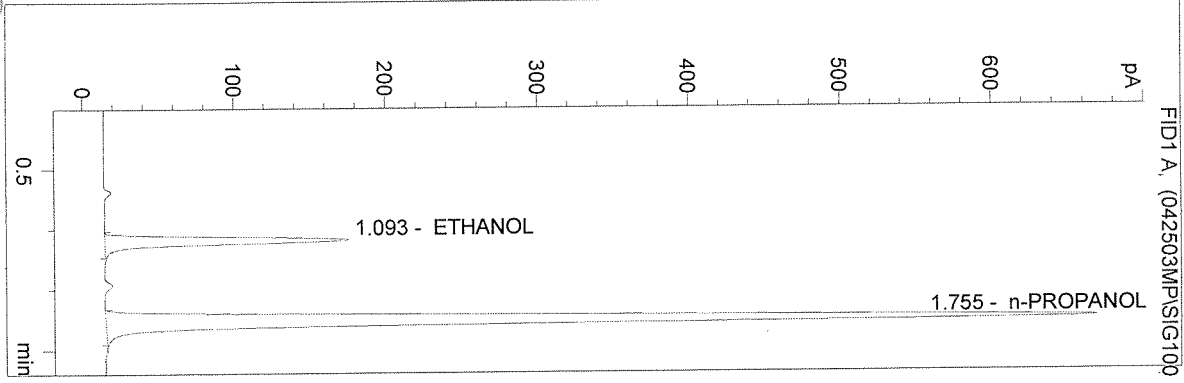


n-PROPANOL 1.000 g/100mL

\\HPCHEM\1\METHODS\BLDALCO3.M
25/03: 9:12:30 AM
Instrument 3
ALC1

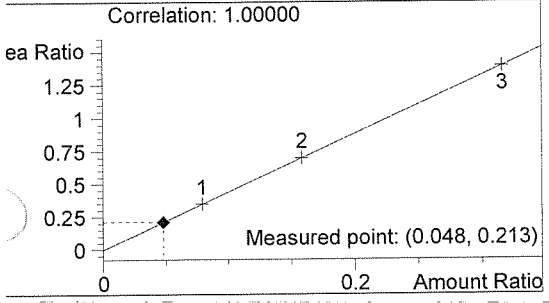
03010 0.04QA
M PEMBERTON

vial # 21

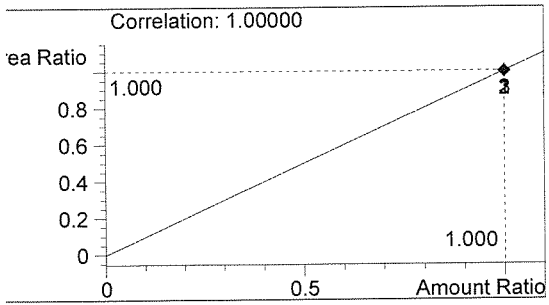


#	Compound	Area	RT
1	ETHANOL	627	1.093
2	n-PROPANOL	2946	1.755

Totals:

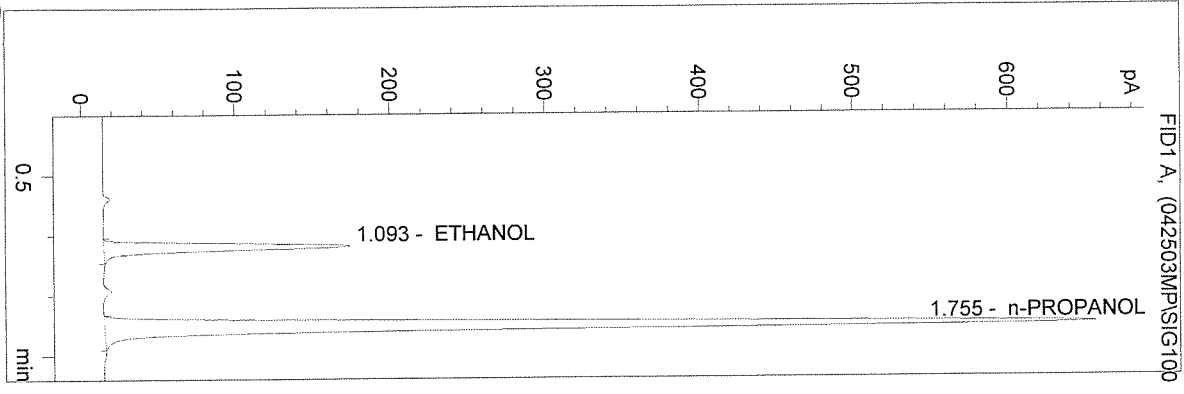


ETHANOL 0.048 g/100mL



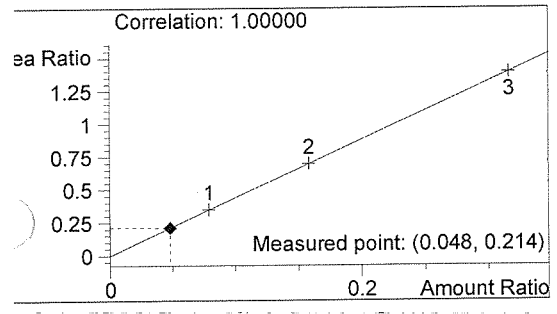
n-PROPANOL 1.000 g/100mL

vial # 22

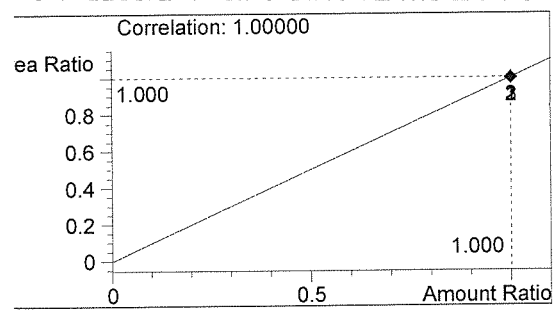


#	Compound	Area	RT
1	ETHANOL	621	1.093
2	n-PROPANOL	2905	1.755

Totals:



ETHANOL 0.048 g/100mL

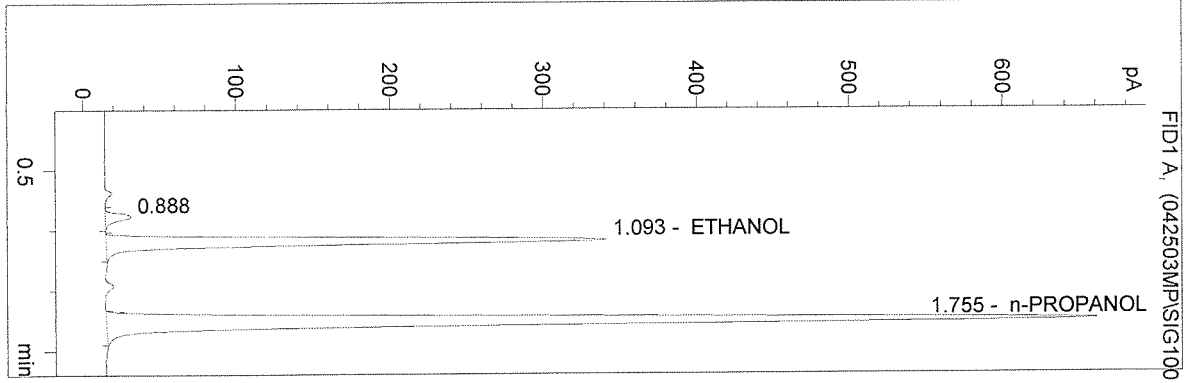


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
25/03 9:19:16 AM
Instrument 3
ALC1

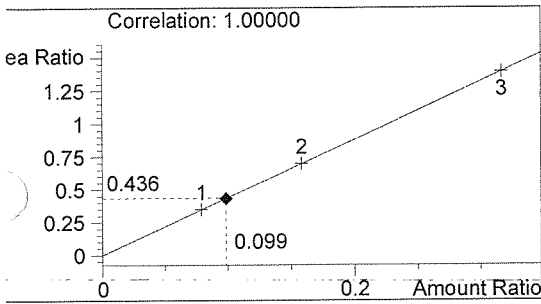
0.10 CONTROL
M PEMBERTON

vial # 23

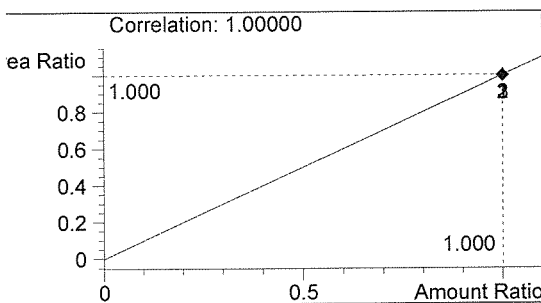


#	Compound	Area	RT
1		68	0.888
2	ETHANOL	1286	1.093
3	n-PROPANOL	2948	1.755

Totals:



ETHANOL 0.099 g/100mL

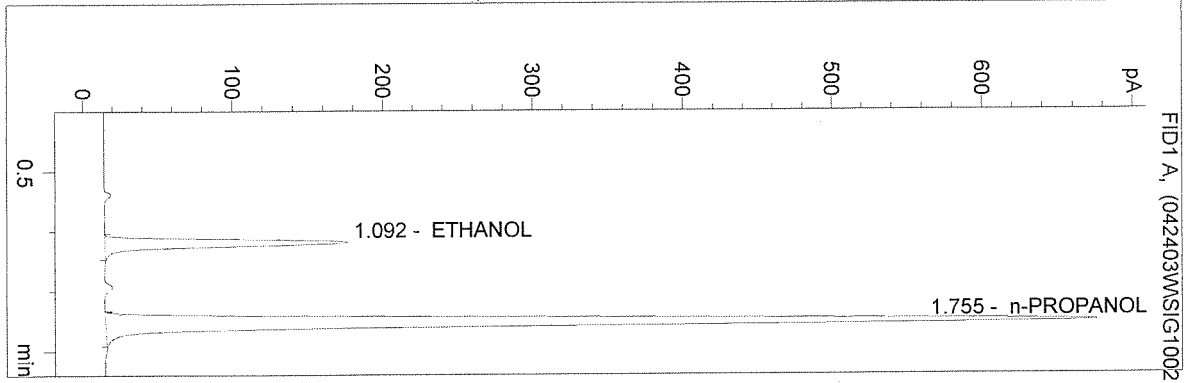


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
24/03 11:04:53 AM
Instrument 3
ALC1

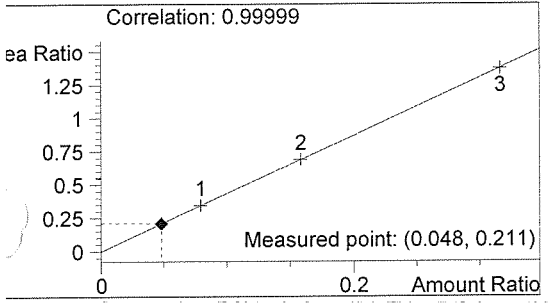
QA 03010
WP MARSHALL

vial # 22

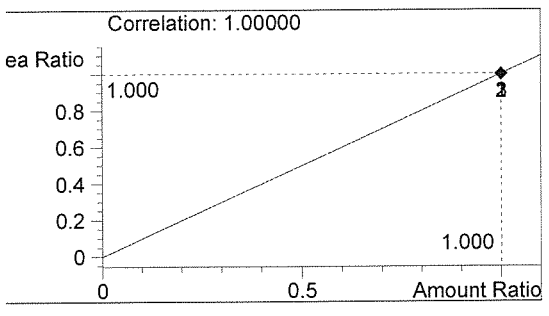


#	Compound	Area	RT
1	ETHANOL	633	1.092
2	n-PROPANOL	2993	1.755

Totals:



ETHANOL 0.048 g/100mL



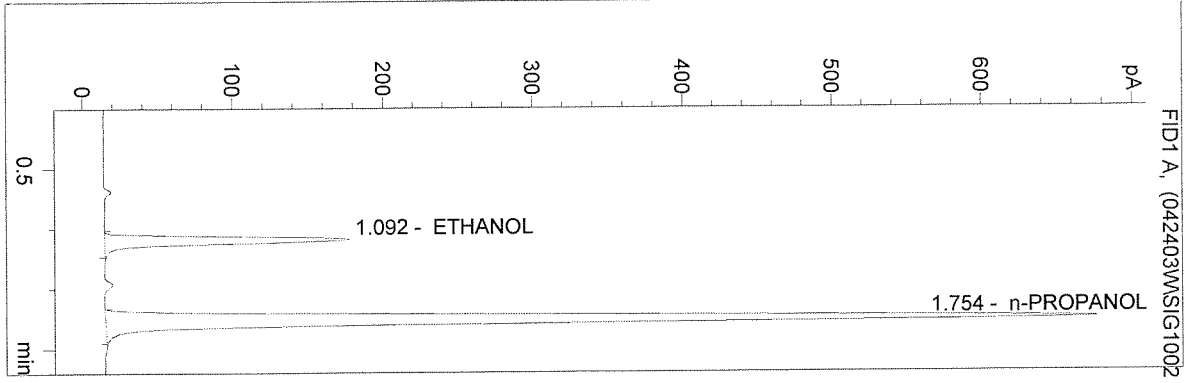
n-PROPANOL 1.000 g/100mL

STDS \bar{c}
SIM 03008

\HPCHEM\1\METHODS\BLDALCO3.M
24/03 11:08:16 AM
Instrument 3
ALC1

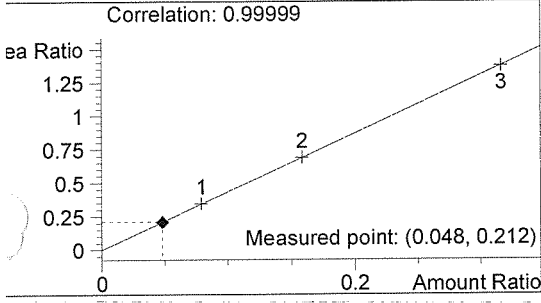
QA 03010
WP MARSHALL

vial # 23

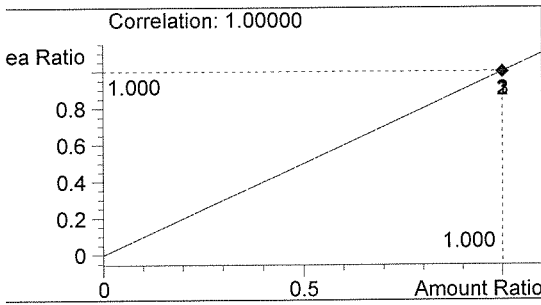


#	Compound	Area	RT
1	ETHANOL	634	1.092
2	n-PROPANOL	2986	1.754

Totals:



ETHANOL 0.048 g/100mL

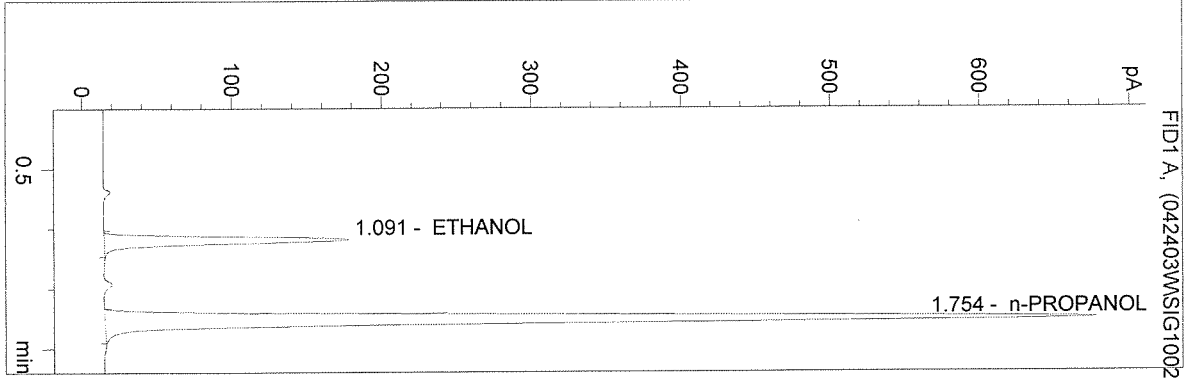


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
24/03 11:11:38 AM
Instrument 3
ALC1

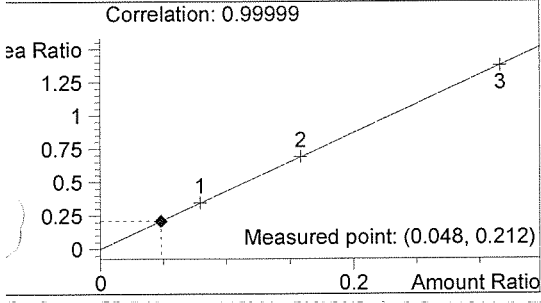
QA 03010
WP MARSHALL

vial # 24

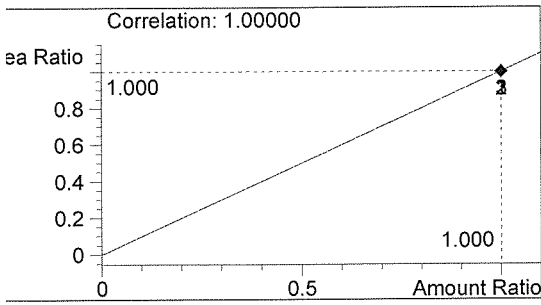


#	Compound	Area	RT
1	ETHANOL	640	1.091
2	n-PROPANOL	3019	1.754

Totals:

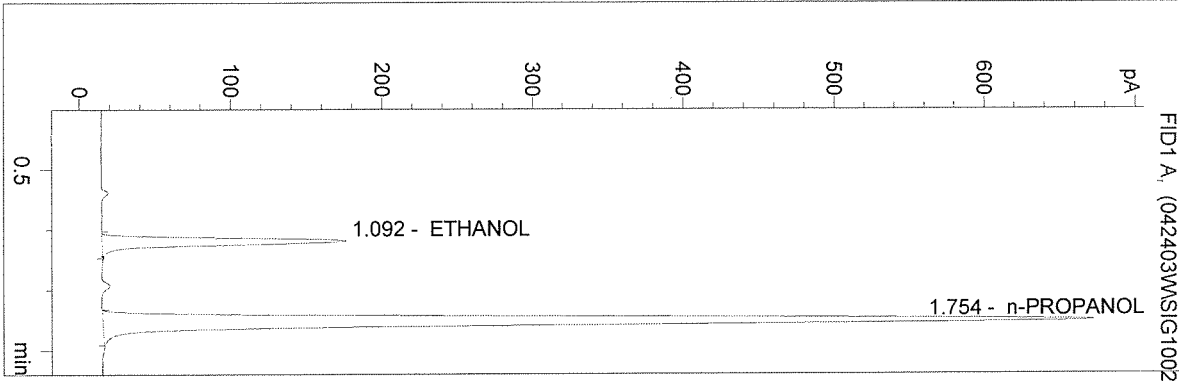


ETHANOL 0.048 g/100mL



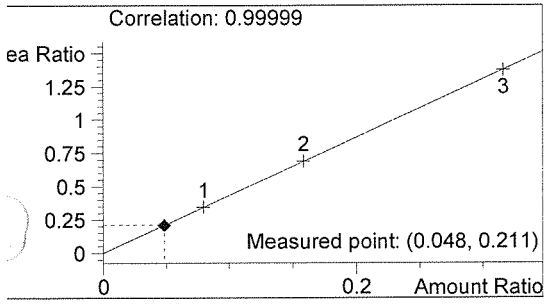
n-PROPANOL 1.000 g/100mL

vial # 25

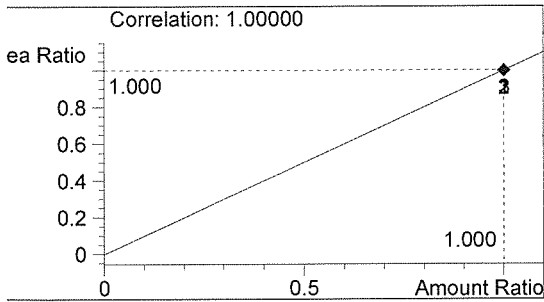


#	Compound	Area	RT
1	ETHANOL	627	1.092
2	n-PROPANOL	2967	1.754

Totals:



ETHANOL 0.048 g/100mL

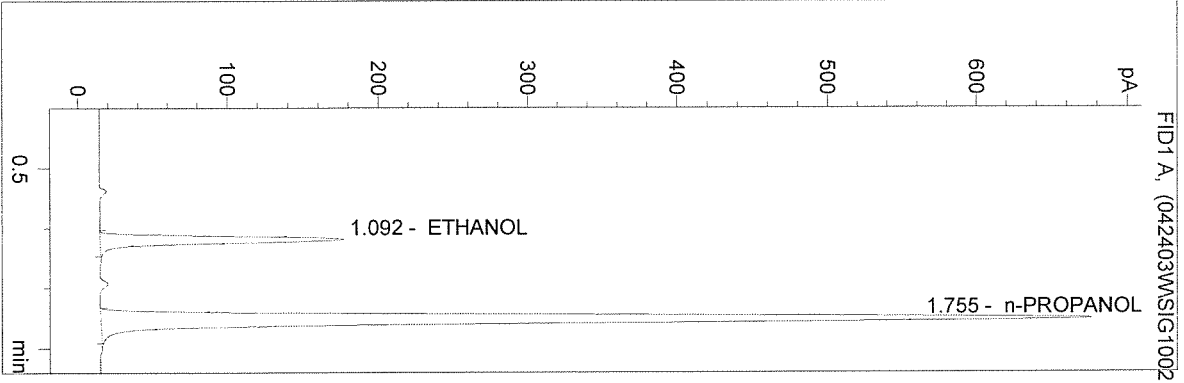


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
24/03 11:18:25 AM
Instrument 3
ALC1

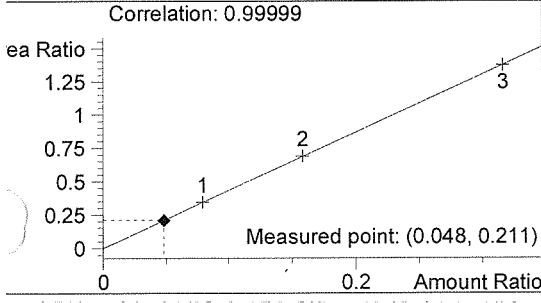
QA 03010
WP MARSHALL

vial # 26

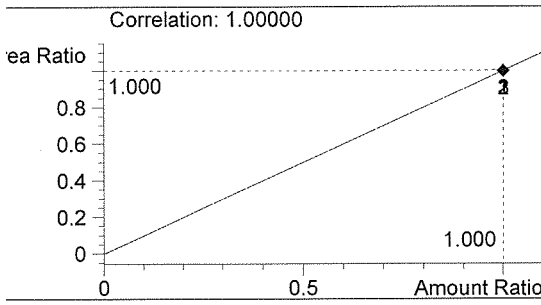


#	Compound	Area	RT
1	ETHANOL	630	1.092
2	n-PROPANOL	2980	1.755

Totals:



ETHANOL 0.048 g/100mL

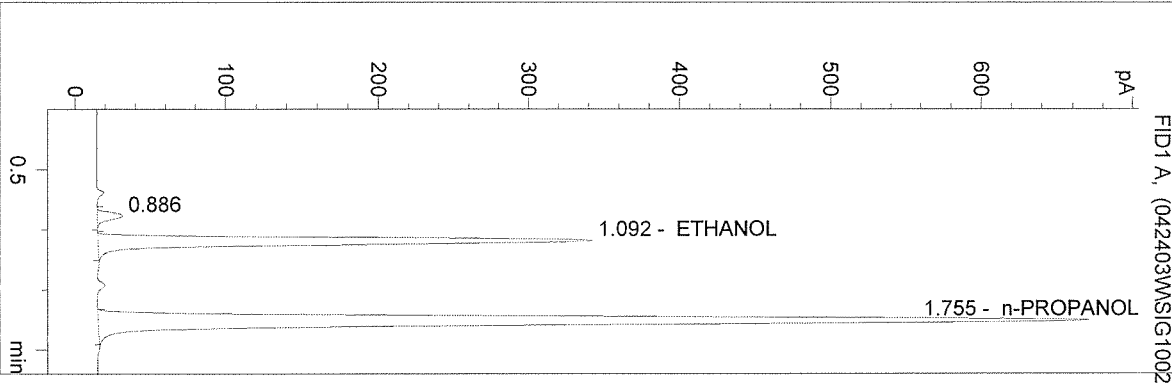


n-PROPANOL 1.000 g/100mL

\\HPCHEM\1\METHODS\BLDALCO3.M
24/03 10:58:07 AM
Instrument 3
ALC1

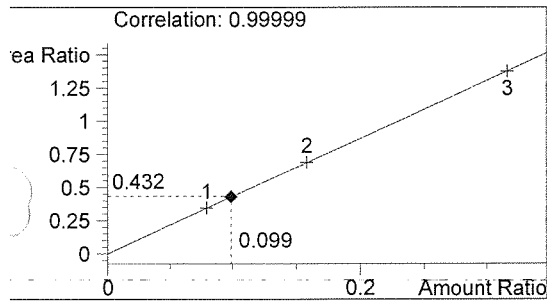
0.100 CONTROL
WP MARSHALL

vial # 20

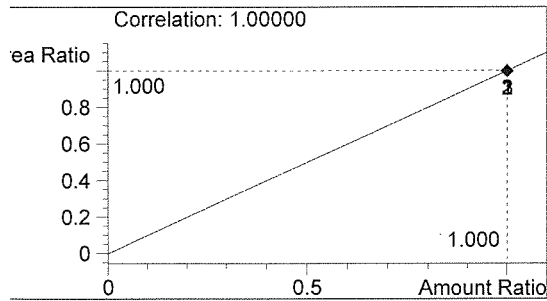


#	Compound	Area	RT
1		67	0.886
2	ETHANOL	1287	1.092
3	n-PROPANOL	2981	1.755

Totals:



ETHANOL 0.099 g/100mL

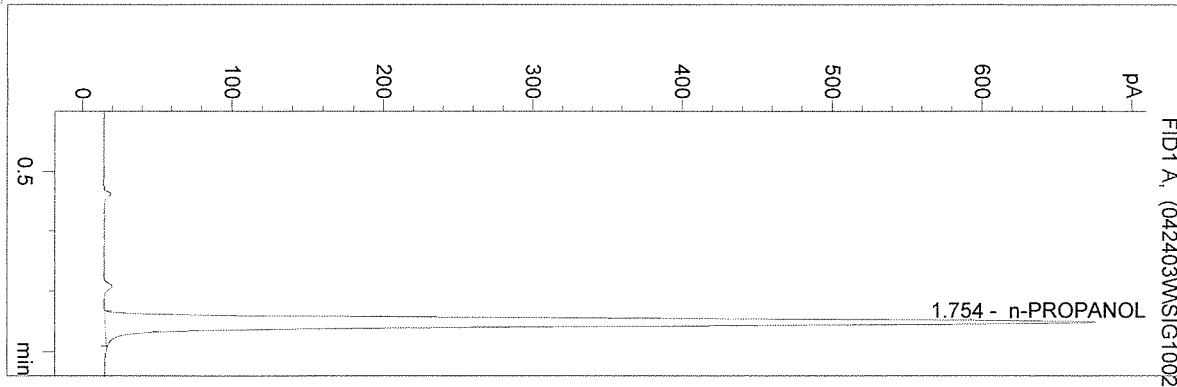


n-PROPANOL 1.000 g/100mL

:\HPCHEM\1\METHODS\BLDALCO3.M
 /24/03 11:01:30 AM
 Instrument 3
 ALC1

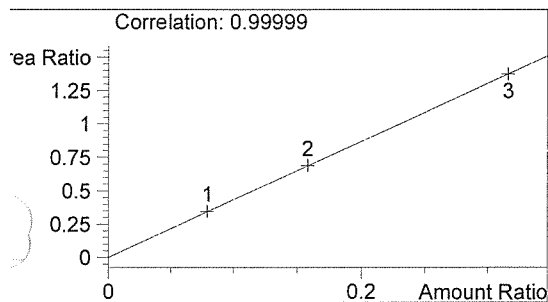
BLANK
 WP MARSHALL

vial # 21

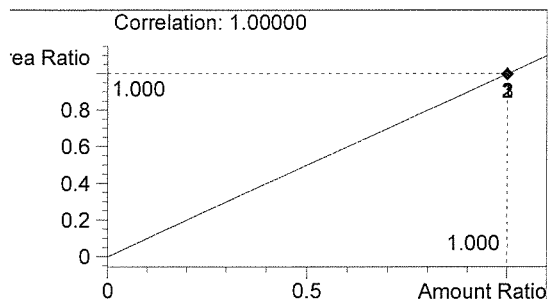


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	2967	1.754

Totals:



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL