WASHINGTON STATE TOXICOLOGY LABORATORY
FORENSIC LABORATORY SERVICES BUREAU
WASHINGTON STATE PATROL
2203 AIRPORT WAY S, SUITE 360
SEATTLE, WASHINGTON 98134-2027
(206) 464-5435 FAX (206) 389-2738

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

Batch number **03011** Date: 4/21/2003

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

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

	Anal 1	Anal 2	Anal 3	Anal 4	Anal 5	Anal 6	Anal 7	Anal 8	Anal 9	Anal10	Anal 11	Anal 12
1	0.098	0.099	0.097	0.098								
2	0.099	0.099	0.097	0.097								
3	0.099	0.099	0.097	0.098								
4	0.099	0.099	0.098	0.098								
5	0.098	0.099	0.098	0.097								
Ctrl	0.100	0.101	0.098	0.100								

External Control:

Lot #: A022167 Exp date: 01/05

Target concentration: 0.10 g/100mL

Statistics:

Avg. solution concent.: 0.0982 g/100 mL

SD: 0.00083

Range (3xSD): 0.0956 to 0.1007

Precision CV (%): 0.8499 %

Equivalent vapor concent.: 0.0798 g/210L

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

Prepared by: Jayne E. Thatcher according to the approved protocol

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145

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 03011, was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0982 grams per 100ml.

Dated: 4/29/03
Seattle, WA

Jayne E. Thatcher
Forensic Toxicologist

JET/bf
JTQA

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360•Seattle, Washington 98134-2027•(206) 262-6100•FAX (206) 262-6145

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 03011 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0982 grams per 100ml.

Dated: 4/29/03
Seattle, WA

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

GS/bf
GSQA

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145

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 03011 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0982 grams per 100ml.

Dated: 4/29/03
Seattle, WA

Melissa L. Pemberton
Forensic Toxicologist

MP/bf
MPQA

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145

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 03011 was prepared in the Washington State Toxicology Laboratory. I examined and tested this solution. The mean concentration of the alcohol was 0.0982 grams per 100ml.

Dated: 4/29/03
Seattle, WA

William P. Marshall
Forensic Toxicologist

WM/bf
WMQA

Sequence: C:\HPCHEM\2\SEQUENCE\JAYNESAM.S

STANDARDS IN 032454

Sequence Parameters:

Operator:	Jayne E. Thatcher
Data File Naming:	Auto
Data Directory:	C:\HPCHEM\2\DATA\
Data Subdirectory:	042103J
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none
Sequence Comment:	

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Vial	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	1	03011 QA soln	BLDALCO2	1	Sample		
2	2	03011 QA soln	BLDALCO2	1	Sample		
3	3	03011 QA soln	BLDALCO2	1	Sample		
4	4	03011 QA soln	BLDALCO2	1	Sample		
5	5	03011 QA soln	BLDALCO2	1	Sample		
6	6	0.10 control	BLDALCO2	1	Ctrl Samp		
7	7	blank	BLDALCO2	1	Sample		

Sequence Table (Back Injector):

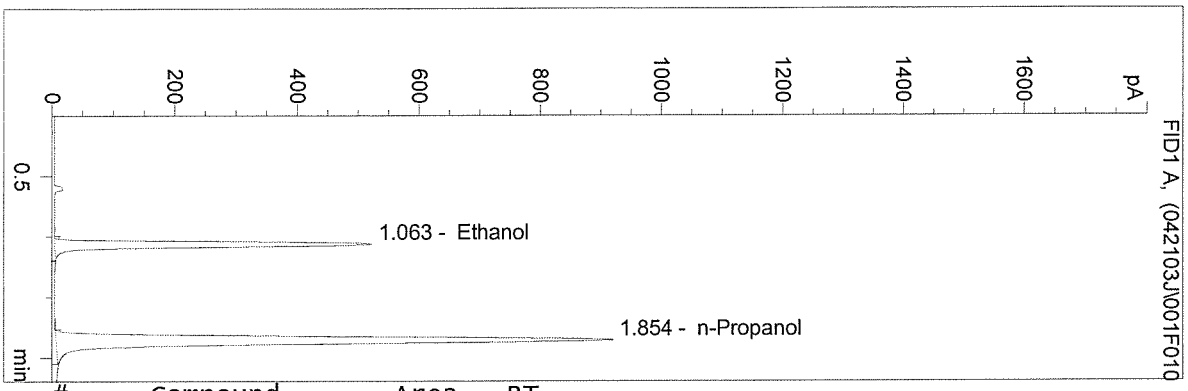
No entries - empty table!

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
4/21/03 4:07:38 PM
Instrument 2
D \LC1

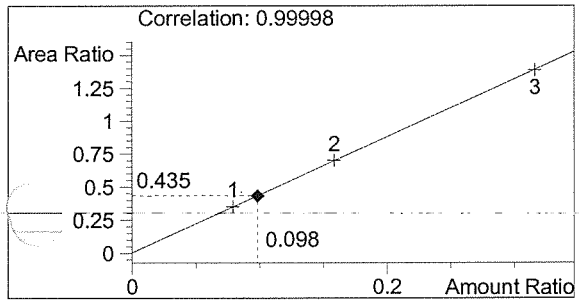
03011 QA soln
Jayne E. Thatcher

vial # 1

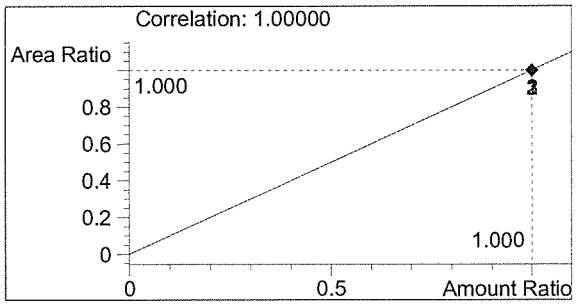


#	Compound	Area	RT
1	Ethanol	1595	1.063
2	n-Propanol	3671	1.854

Totals:



Ethanol 0.098 g/100ml



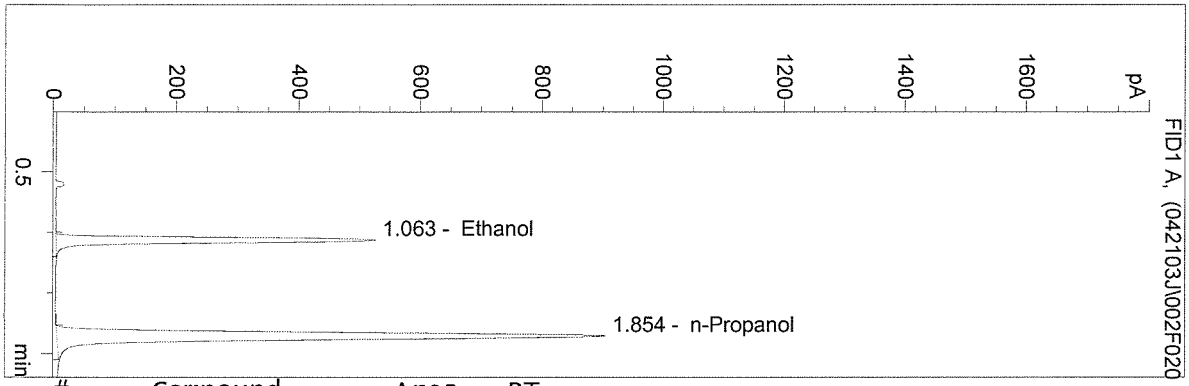
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
4/21/03 4:10:40 PM
Instrument 2
D \LC1

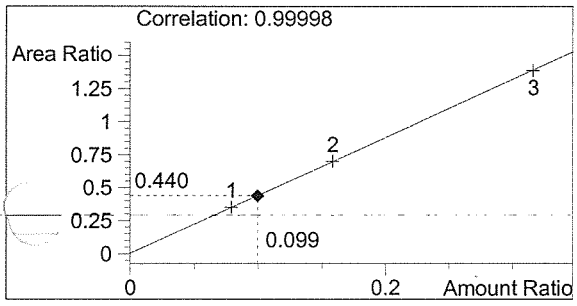
03011 QA soln
Jayne E. Thatcher

vial # 2

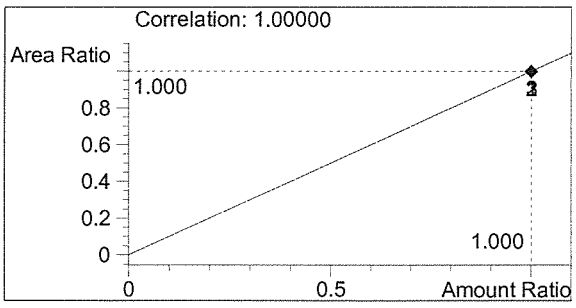


#	Compound	Area	RT
1	Ethanol	1589	1.063
2	n-Propanol	3611	1.854

Totals:



Ethanol 0.099 g/100ml



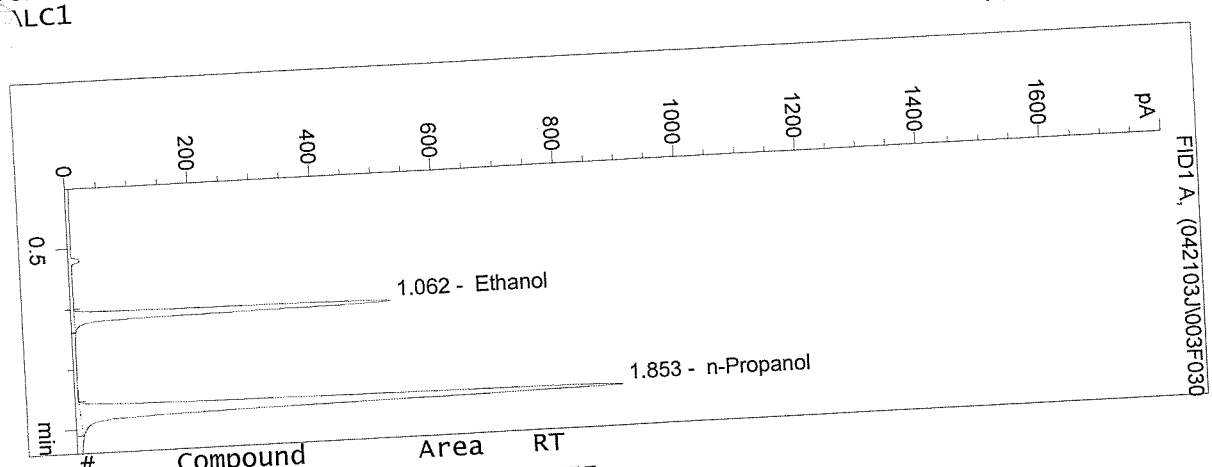
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOL

:\HPCHEM\2\METHODS\BLDALCO2.M
/21/03 4:13:42 PM
nstrument 2
\LC1

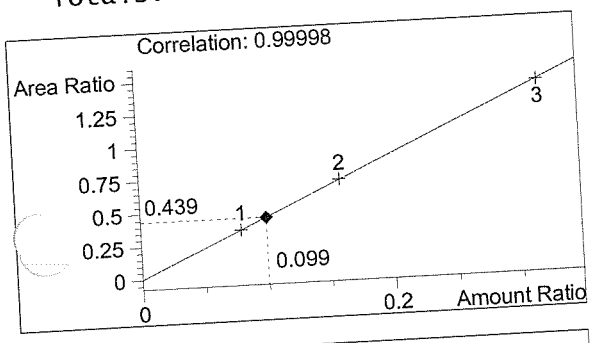
03011 QA soln
Jayne E. Thatcher

vial # 3

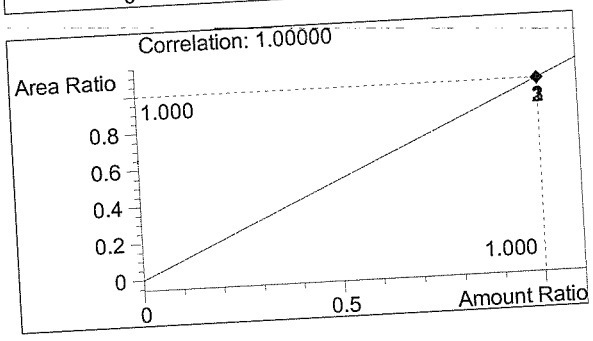


#	Compound	Area	RT
1	Ethanol	1570	1.062
2	n-Propanol	3576	1.853

Totals:



Ethanol 0.099 g/100ml



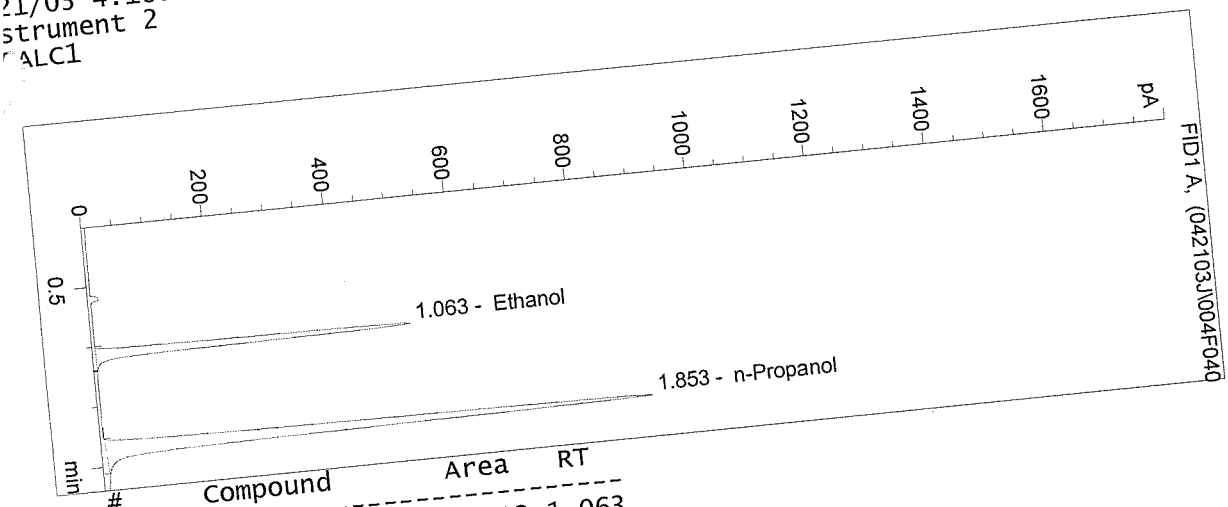
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

\HPCHEM\2\METHODS\BLDALCO2.M
21/03 4:16:44 PM
strument 2
ALC1

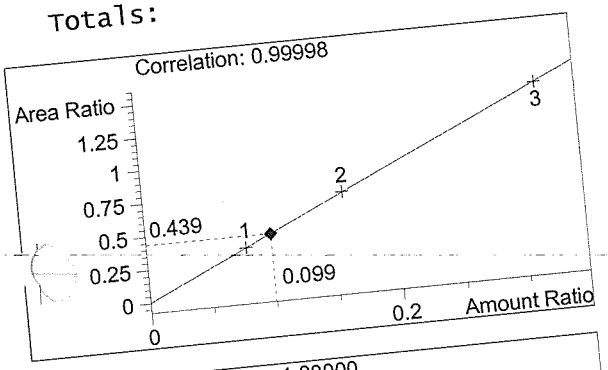
03011 QA soln
Jayne E. Thatcher

vial # 4

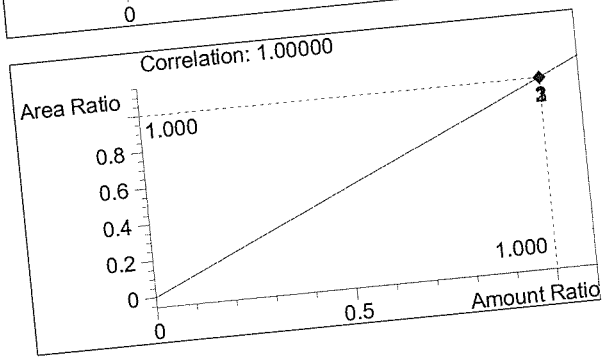


#	Compound	Area	RT
1	Ethanol	1602	1.063
2	n-Propanol	3649	1.853

Totals:



Ethanol 0.099 g/100ml



n-Propanol 1.000 g/100ml

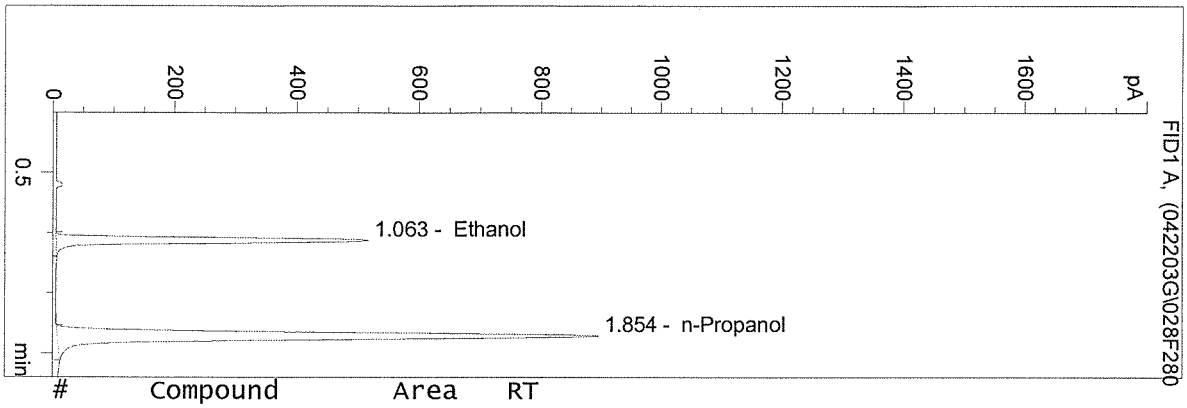
WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\2\METHODS\BLDALCO2.M
4/22/03 1:43:37 PM
Instrument 2
ALC1

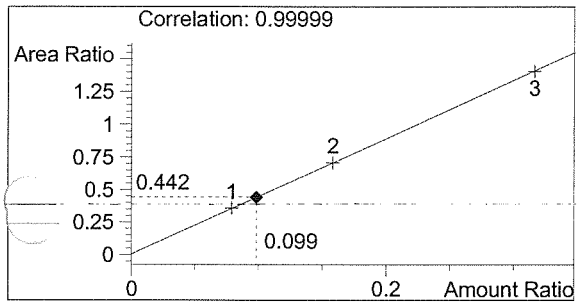
0.08 QASOL 03011
Gene Schwilke

vial # 28

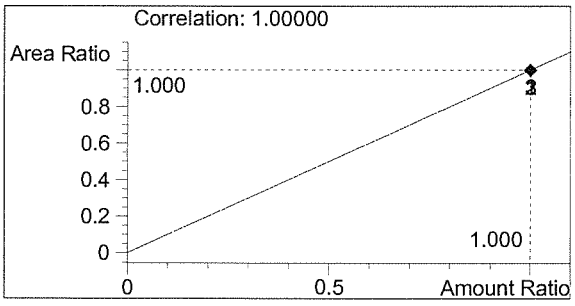
STDS
032485



#	Compound	Area	RT
1	Ethanol	1588	1.063
2	n-Propanol	3597	1.854
Totals:			



Ethanol 0.099 g/100ml



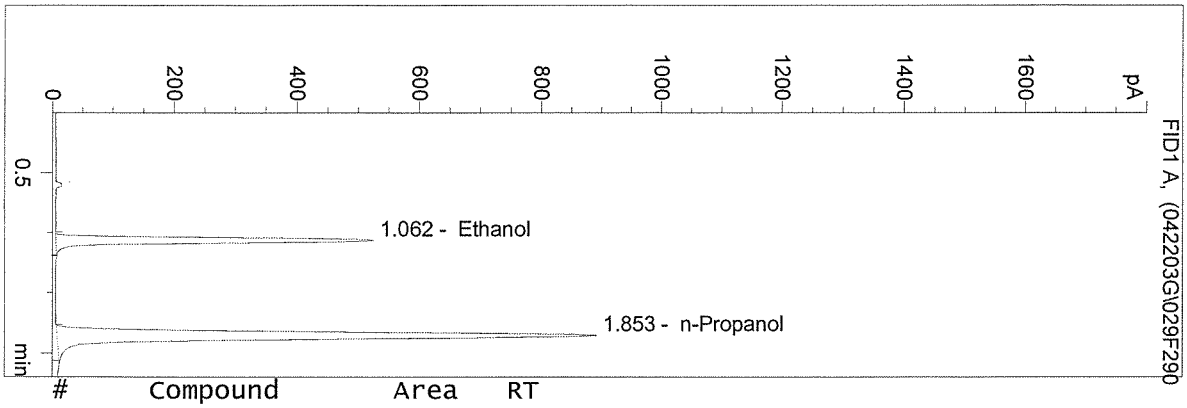
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

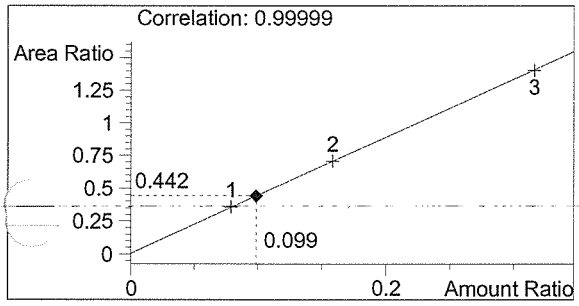
C:\HPCHEM\2\METHODS\BLDALCO2.M
4/22/03 1:46:55 PM
Instrument 2
ALC1

0.08 QASOL 03011
Gene Schwilke

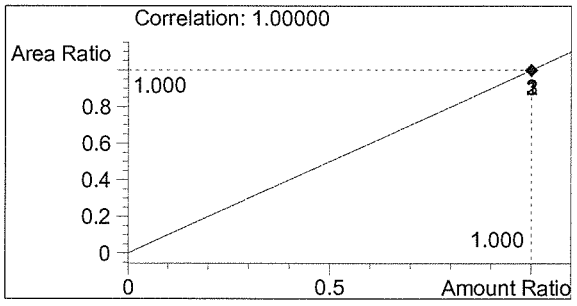
vial # 29



#	Compound	Area	RT
1	Ethanol	1581	1.062
2	n-Propanol	3573	1.853
Totals:			



Ethanol 0.099 g/100ml



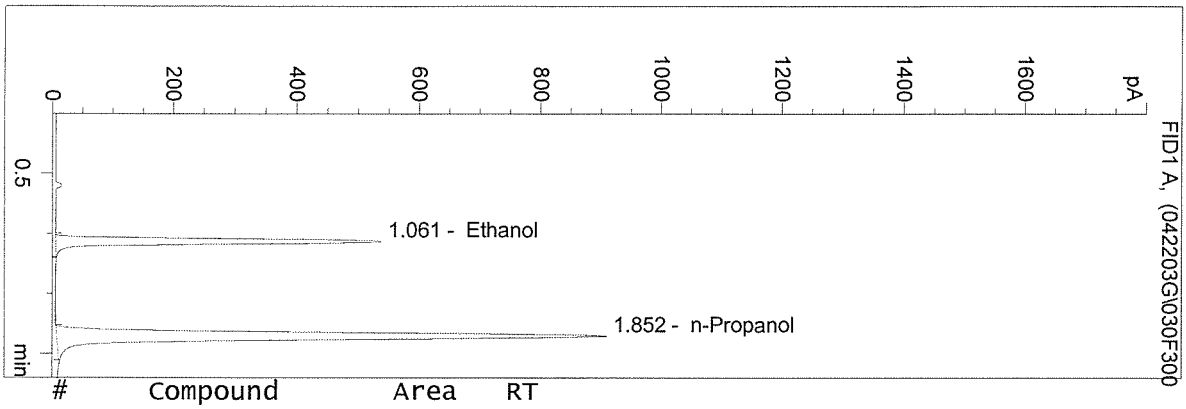
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

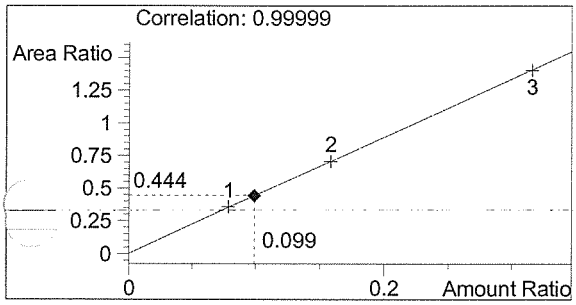
C:\HPCHEM\2\METHODS\BLDALCO2.M
4/22/03 1:49:57 PM
Instrument 2
ALC1

0.08 QASOL 03011
Gene Schwilke

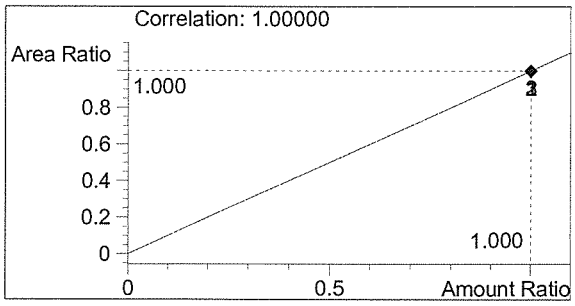
vial # 30



#	Compound	Area	RT
1	Ethanol	1609	1.061
2	n-Propanol	3623	1.852
Totals:			



Ethanol 0.099 g/100ml



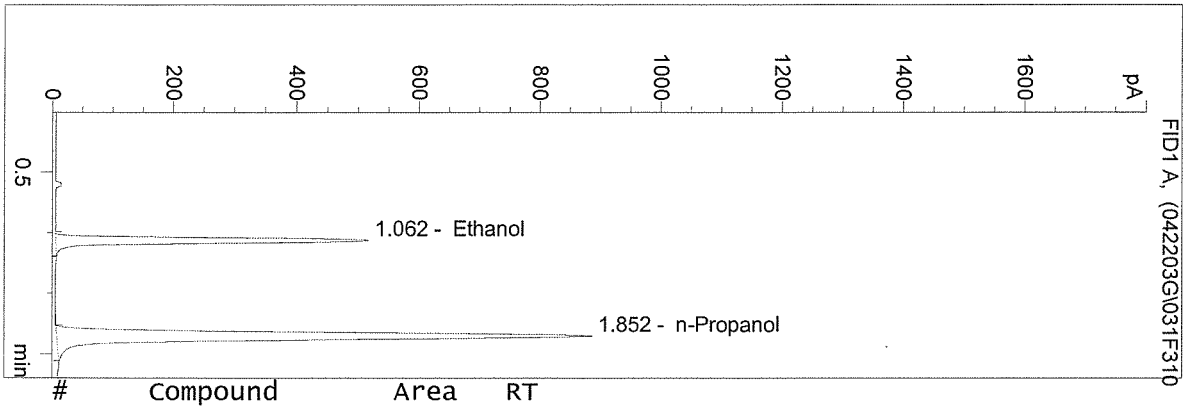
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

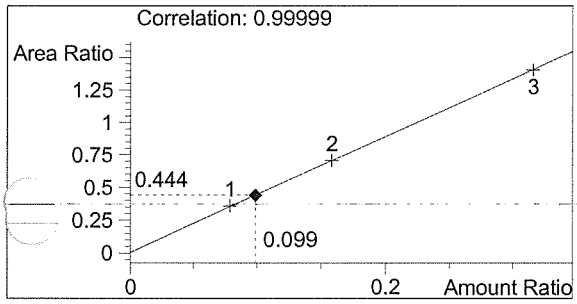
C:\HPCHEM\2\METHODS\BLDALCO2.M
4/22/03 1:52:59 PM
Instrument 2
ALC1

0.08 QASOL 03011
Gene Schwilke

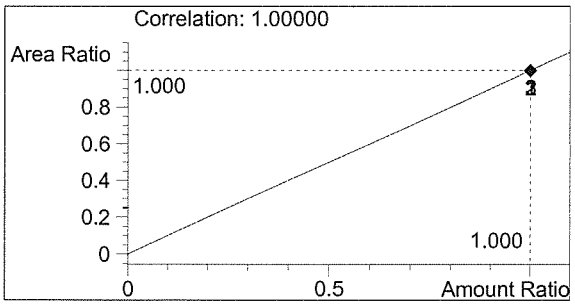
vial # 31



#	Compound	Area	RT
1	Ethanol	1579	1.062
2	n-Propanol	3557	1.852
Totals:			



Ethanol 0.099 g/100ml



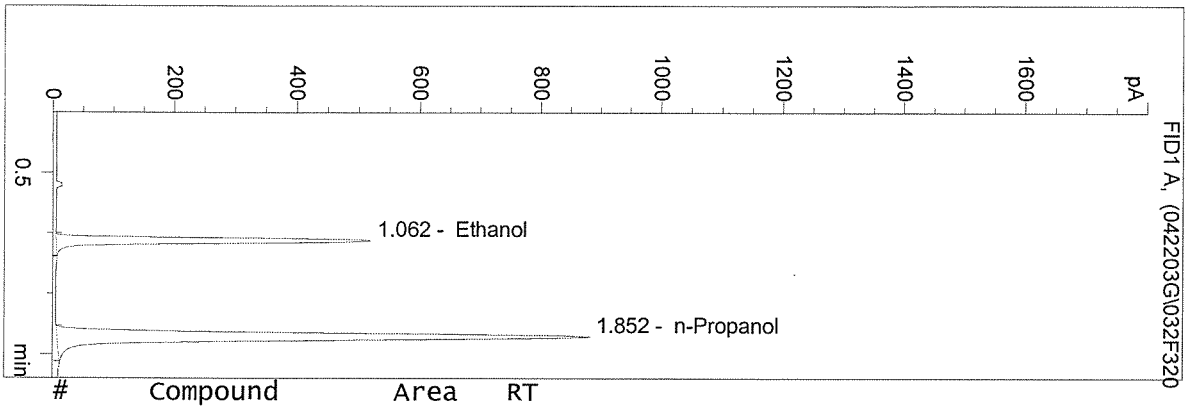
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

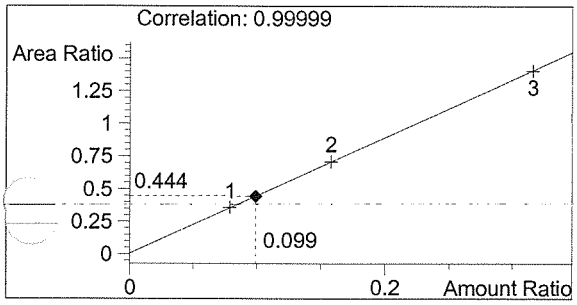
C:\HPCHEM\2\METHODS\BLDALCO2.M
4/22/03 1:56:00 PM
Instrument 2
[illegible]ALC1

0.08 QASOL 03011
Gene Schwilke

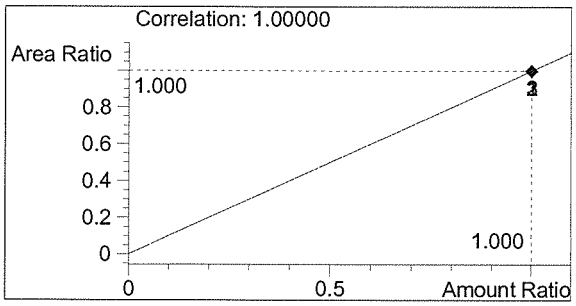
vial # 32



#	Compound	Area	RT
1	Ethanol	1575	1.062
2	n-Propanol	3543	1.852
Totals:			



Ethanol 0.099 g/100ml



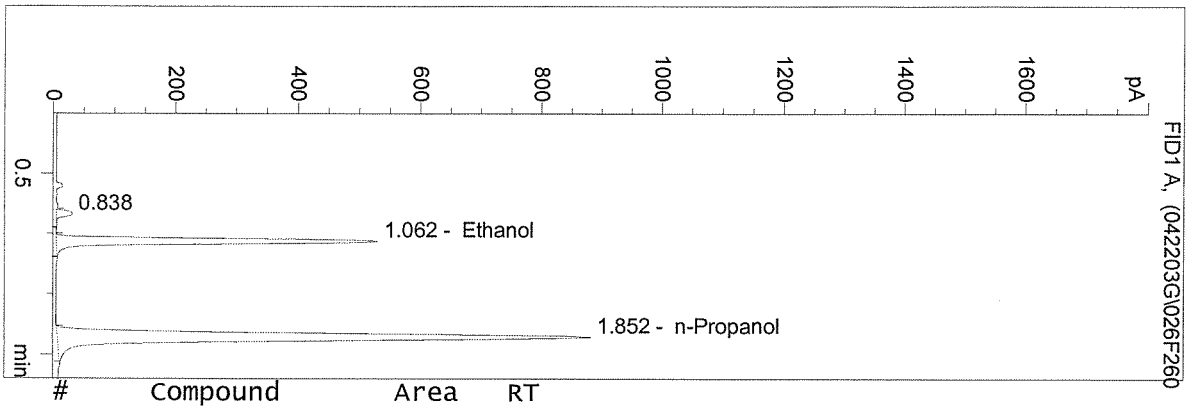
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

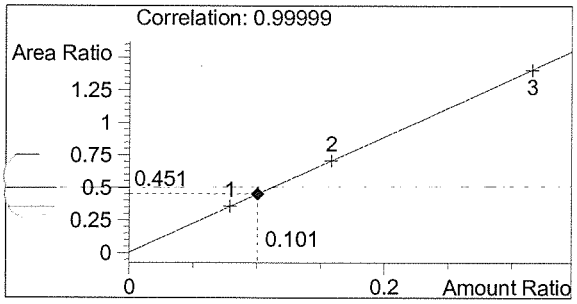
C:\HPCHEM\2\METHODS\BLDALCO2.M
4/22/03 1:37:33 PM
Instrument 2
ALC1

CAP 0.100
Gene Schwilke

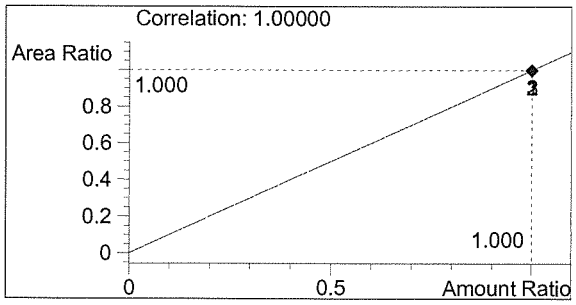
vial # 26



#	Compound	Area	RT
1		85	0.838
2	Ethanol	1597	1.062
3	n-Propanol	3538	1.852
Totals:			



Ethanol 0.101 g/100ml



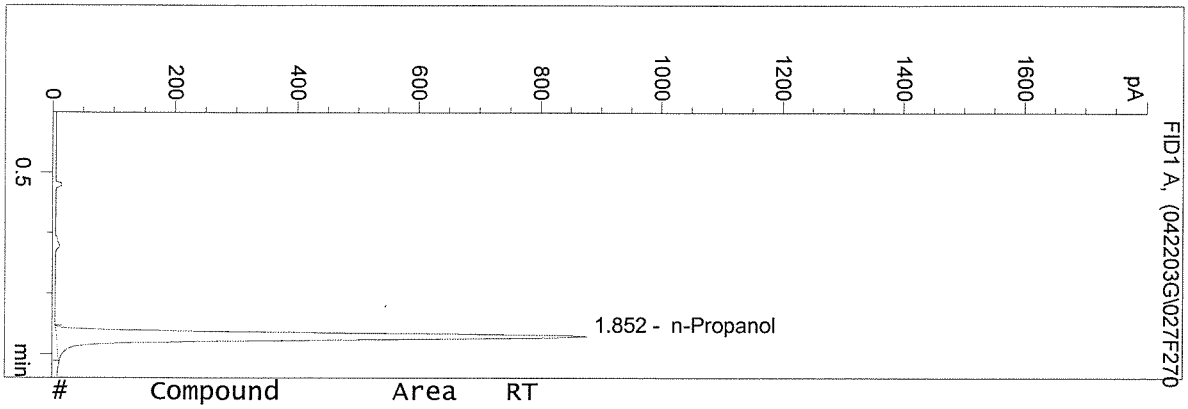
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

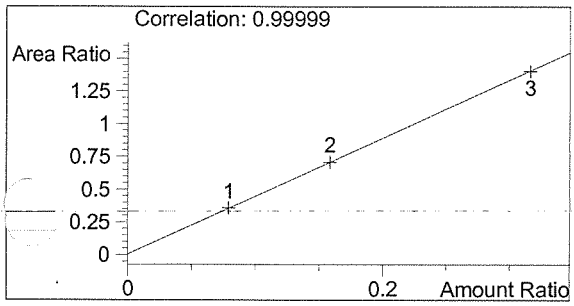
C:\HPCHEM\2\METHODS\BLDALCO2.M
4/22/03 1:40:35 PM
Instrument 2
[illegible]ALC1

BLANK
Gene Schwilke

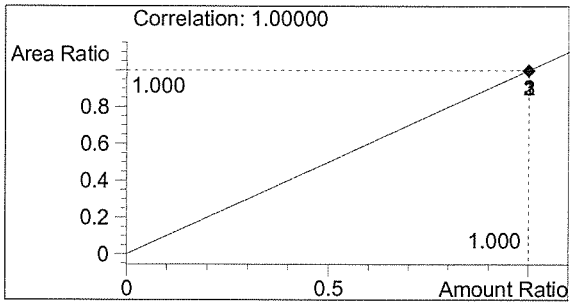
vial # 27



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	3514	1.852
Totals:			



Ethanol 0.000 g/100ml



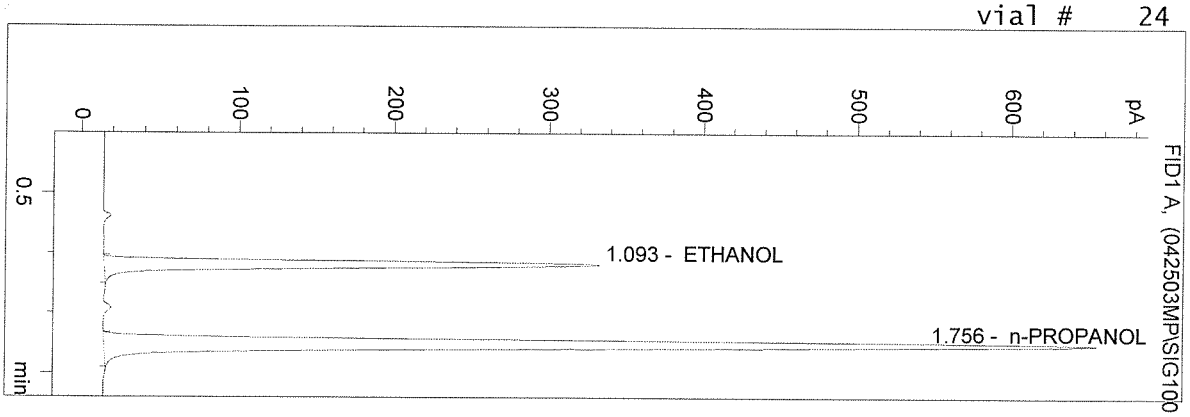
n-Propanol 1.000 g/100ml

WASHINGTON STATE TOXICOLOGY LABORATORY

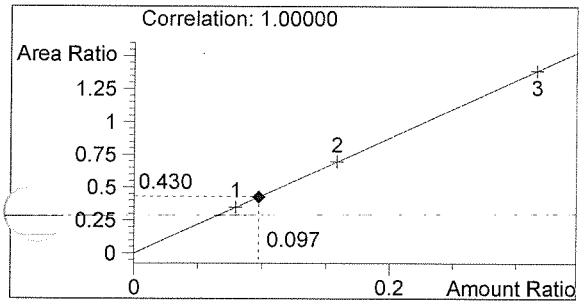
C:\HPCHEM\1\METHODS\BLDALCO3.M
4/25/03 9:22:39 AM
Instrument 3
ALC1

03011 0.08QA
M PEMBERTON

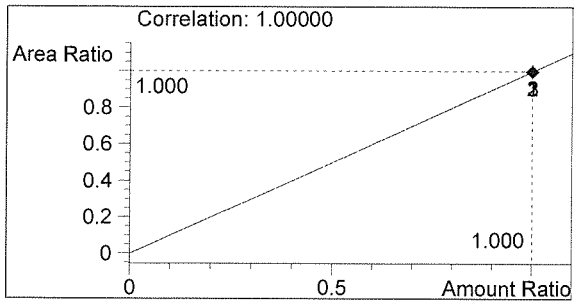
vial # 24



#	Compound	Area	RT
1	ETHANOL	1251	1.093
2	n-PROPANOL	2912	1.756
Totals:			



ETHANOL 0.097 g/100mL



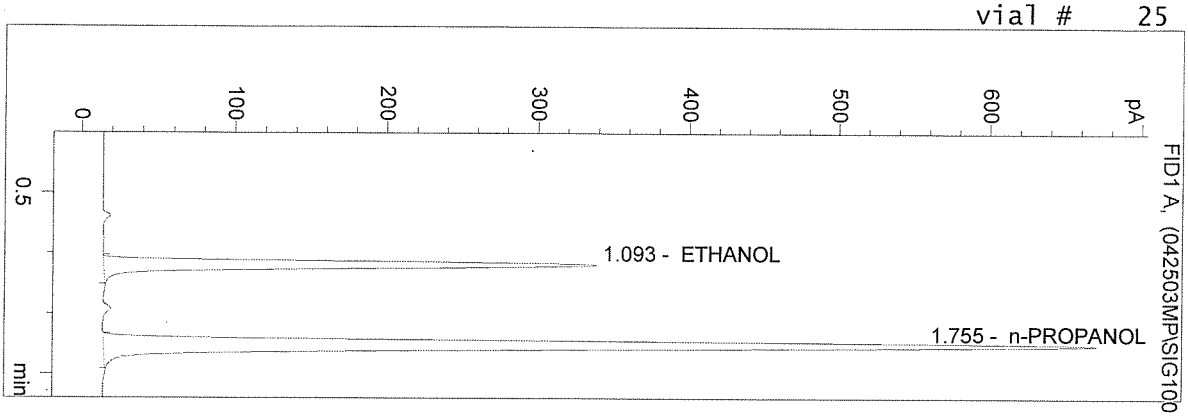
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
4/25/03 9:26:05 AM
Instrument 3
ALC1

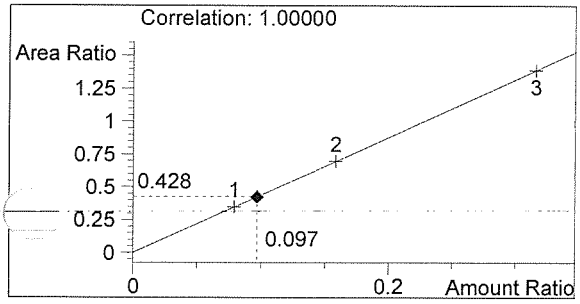
03011 0.08 QA
M PEMBERTON

vial # 25

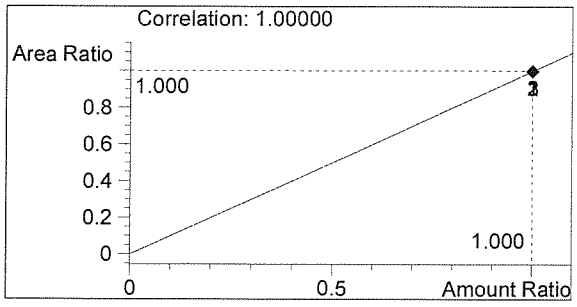


#	Compound	Area	RT
1	ETHANOL	1283	1.093
2	n-PROPANOL	2995	1.755

Totals:



ETHANOL 0.097 g/100mL



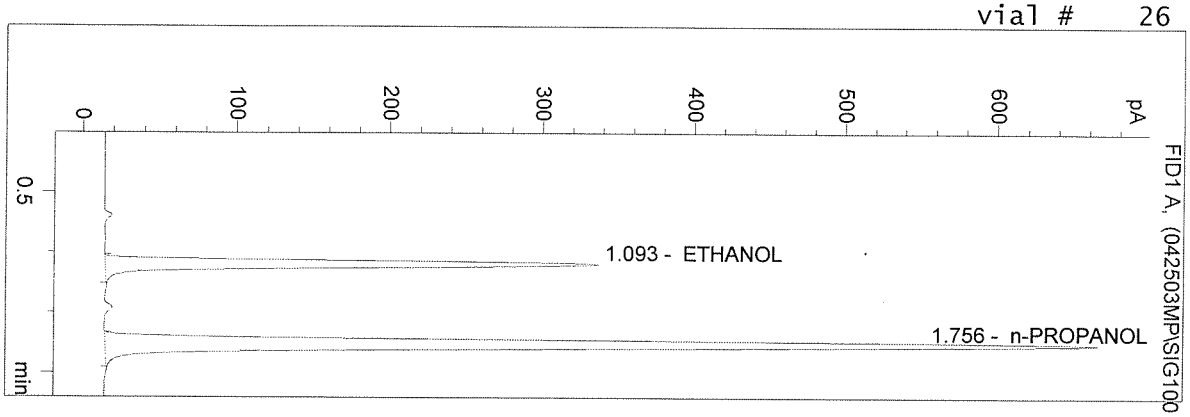
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

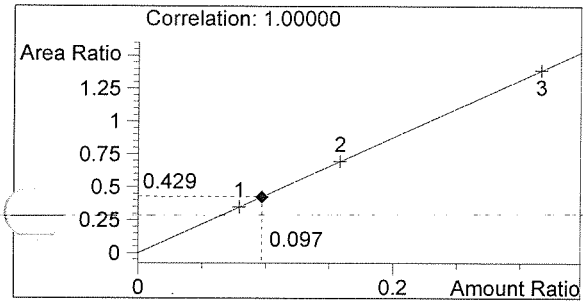
C:\HPCHEM\1\METHODS\BLDALCO3.M
4/25/03 9:29:28 AM
Instrument 3
ALC1

03011 0.08QA
M PEMBERTON

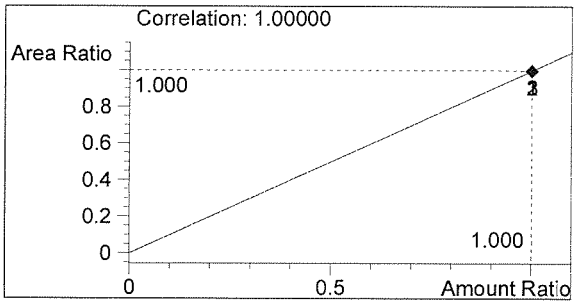
vial # 26



#	Compound	Area	RT
1	ETHANOL	1268	1.093
2	n-PROPANOL	2958	1.756
Totals:			



ETHANOL 0.097 g/100mL



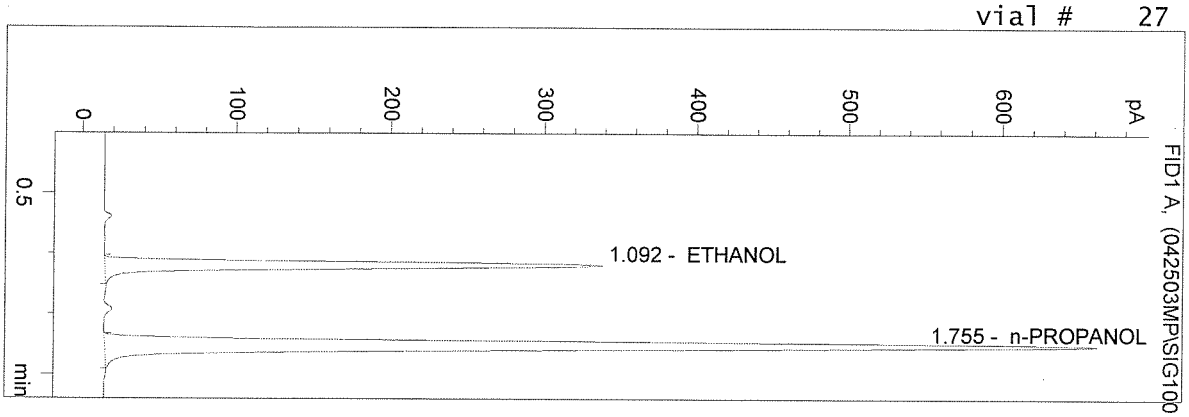
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\BLDALCO3.M
4/25/03 9:32:51 AM
Instrument 3
ALC1

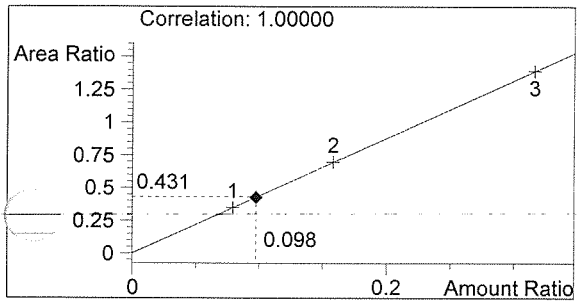
03011 0.08 QA
M PEMBERTON

vial # 27

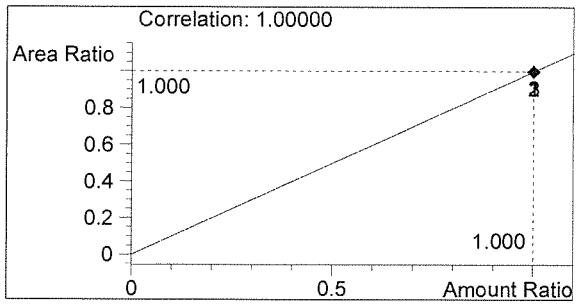


#	Compound	Area	RT
1	ETHANOL	1260	1.092
2	n-PROPANOL	2926	1.755

Totals:



ETHANOL 0.098 g/100mL



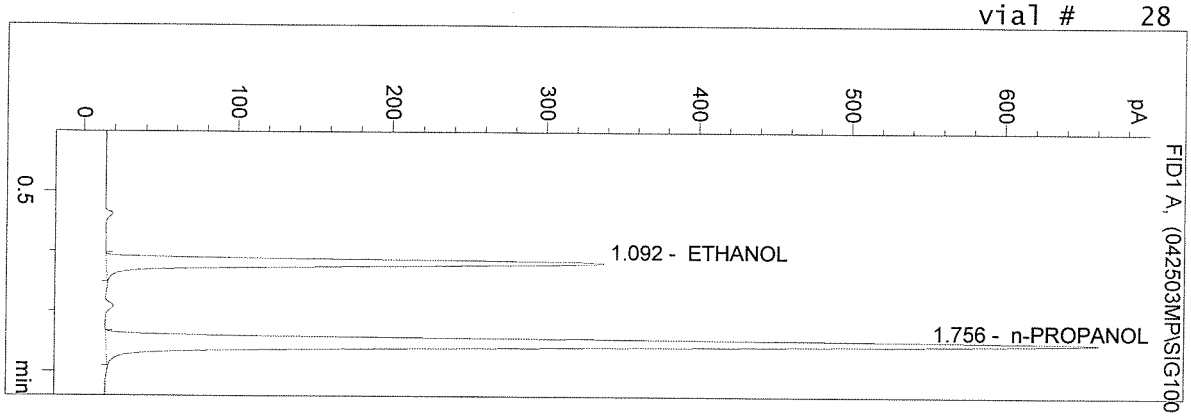
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

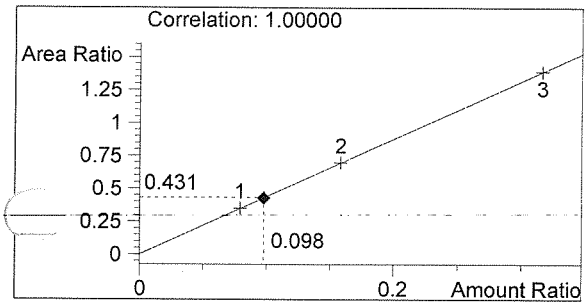
C:\HPCHEM\1\METHODS\BLDALCO3.M
4/25/03 9:36:14 AM
Instrument 3
ALC1

03011 0.08 QA
M PEMBERTON

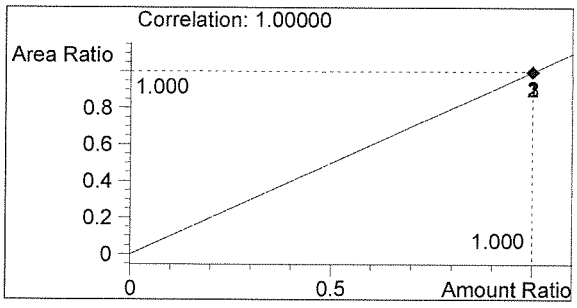
vial # 28



#	Compound	Area	RT
1	ETHANOL	1259	1.092
2	n-PROPANOL	2919	1.756
Totals:			



ETHANOL 0.098 g/100mL



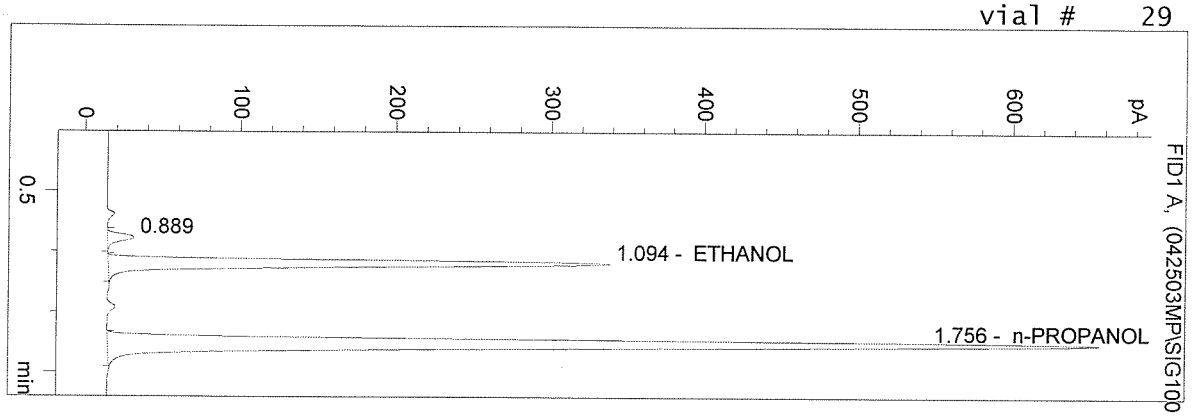
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

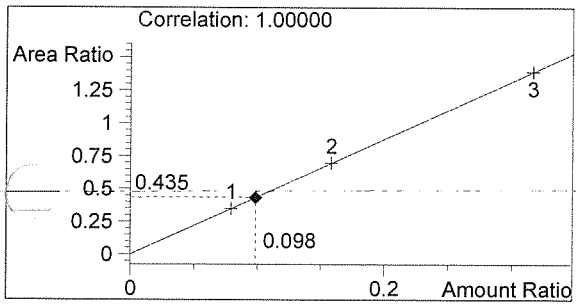
C:\HPCHEM\1\METHODS\BLDALCO3.M
4/25/03 9:39:38 AM
Instrument 3
ALC1

0.10 CONTROL
M PEMBERTON

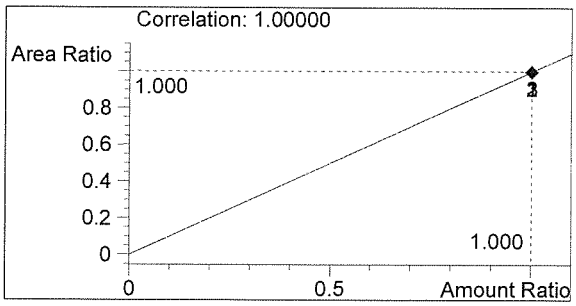
vial # 29



#	Compound	Area	RT
1		67	0.889
2	ETHANOL	1268	1.094
3	n-PROPANOL	2918	1.756
Totals:			



ETHANOL 0.098 g/100mL



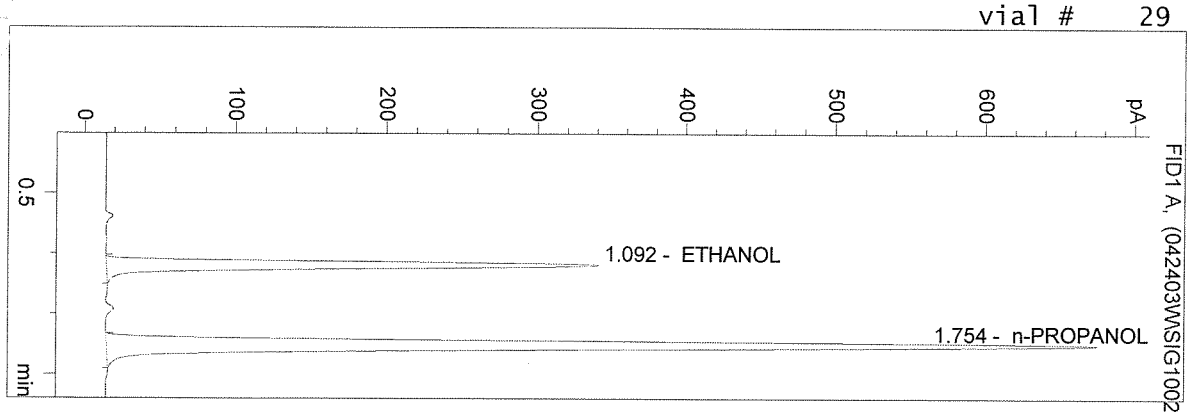
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

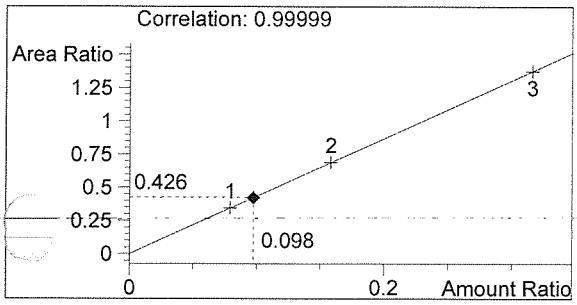
C:\HPCHEM\1\METHODS\BLDALCO3.M
4/24/03 11:28:33 AM
Instrument 3
ALC1

QA 03011
WP MARSHALL

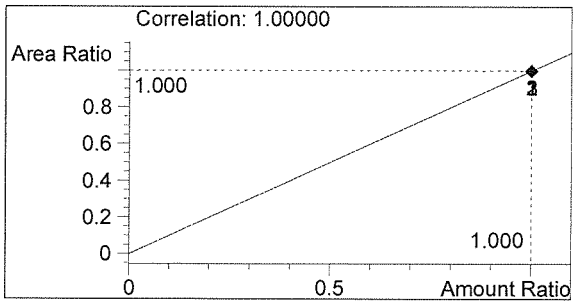
vial # 29



#	Compound	Area	RT
1	ETHANOL	1282	1.092
2	n-PROPANOL	3009	1.754
Totals:			



ETHANOL 0.098 g/100mL



n-PROPANOL 1.000 g/100mL

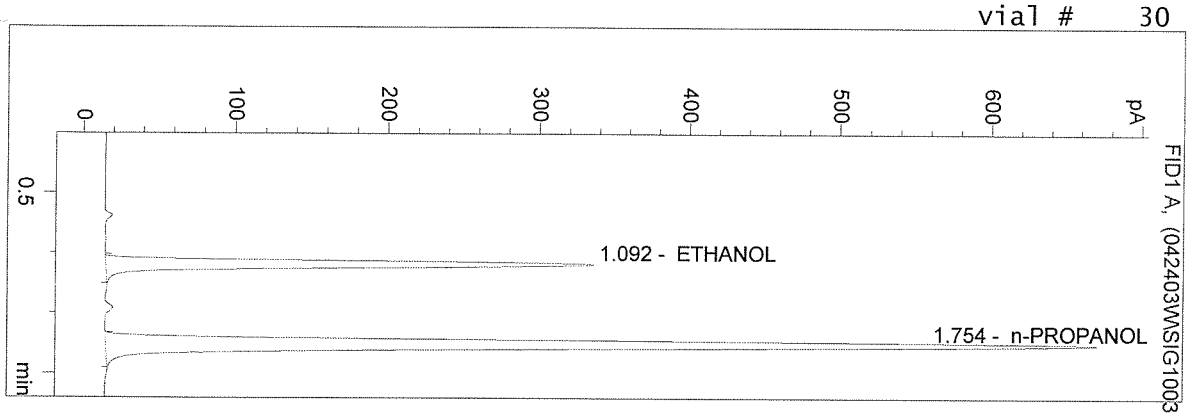
STDS C
SIM 03008

WASHINGTON STATE TOXICOLOGY LABORATORY

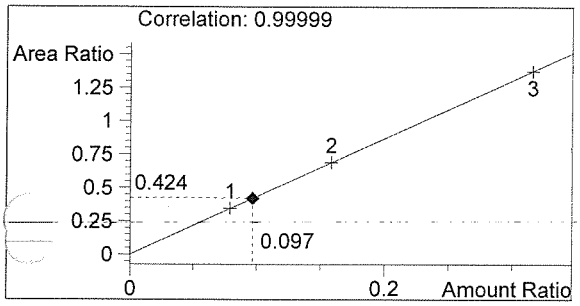
C:\HPCHEM\1\METHODS\BLDALCO3.M
4/24/03 11:31:56 AM
Instrument 3
ALC1

QA 03011
WP MARSHALL

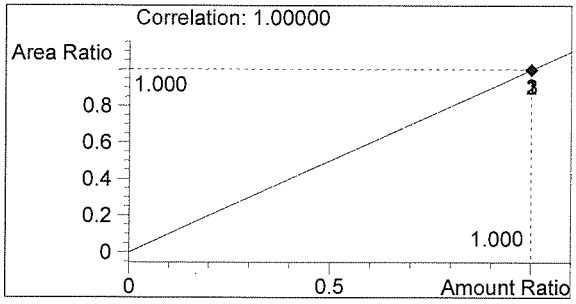
vial # 30



#	Compound	Area	RT
1	ETHANOL	1261	1.092
2	n-PROPANOL	2977	1.754
Totals:			



ETHANOL 0.097 g/100mL

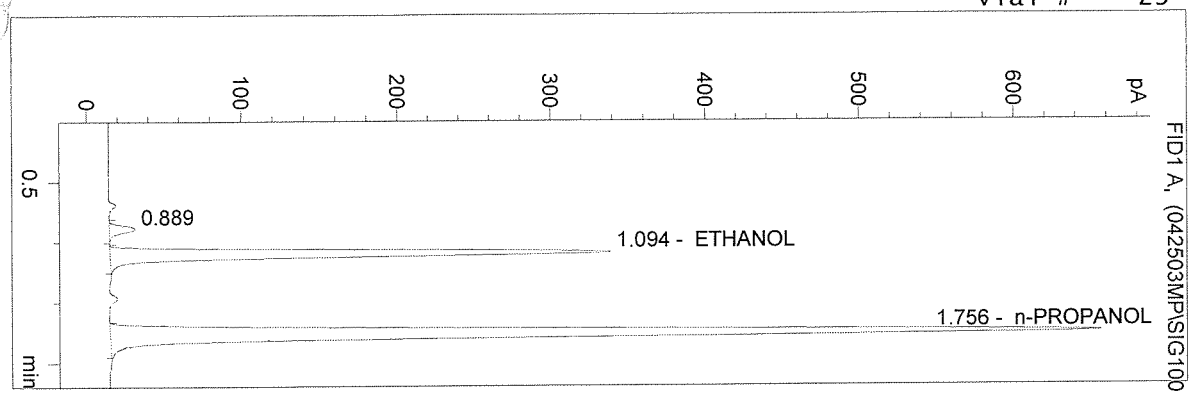


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
25/03 9:39:38 AM
strument 3
ALC1

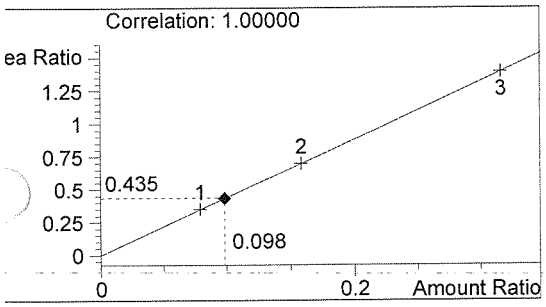
0.10 CONTROL
M PEMBERTON

vial # 29

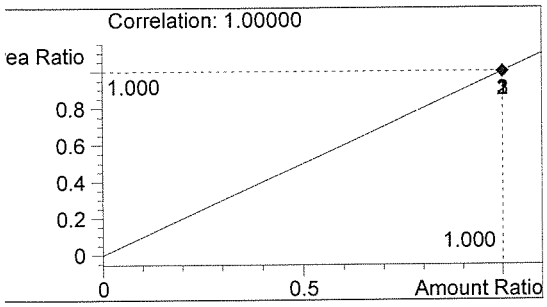


#	Compound	Area	RT
1		67	0.889
2	ETHANOL	1268	1.094
3	n-PROPANOL	2918	1.756

Totals:



ETHANOL 0.098 g/100mL

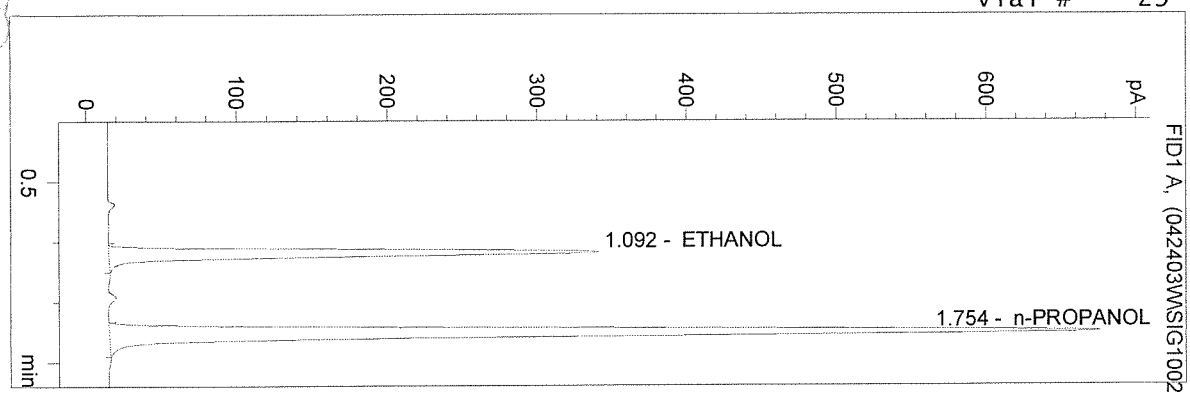


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
24/03 11:28:33 AM
strument 3
ALC1

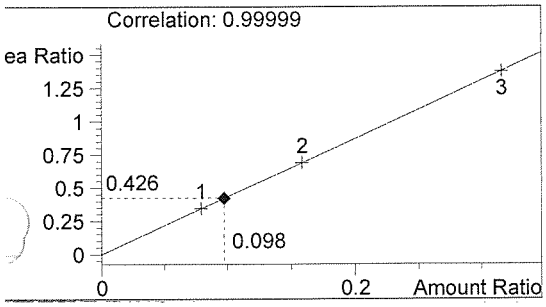
QA 03011
WP MARSHALL

vial # 29

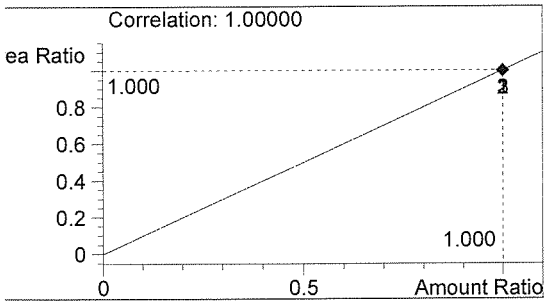


#	Compound	Area	RT
1	ETHANOL	1282	1.092
2	n-PROPANOL	3009	1.754

Totals:



ETHANOL 0.098 g/100mL



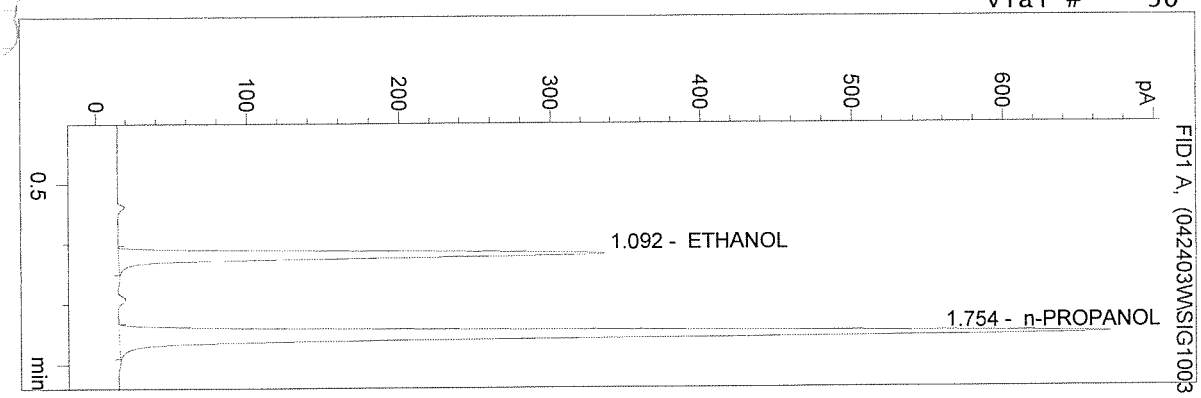
n-PROPANOL 1.000 g/100mL

STDS C
SIM 03008

\HPCHEM\1\METHODS\BLDALCO3.M
24/03 11:31:56 AM
strument 3
ALC1

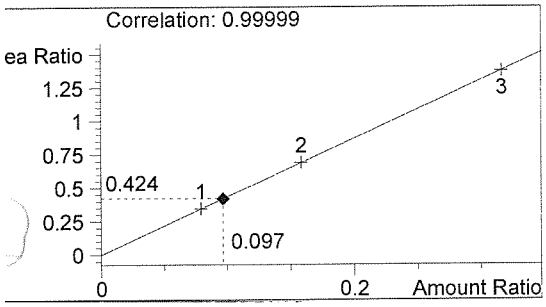
QA 03011
WP MARSHALL

vial # 30

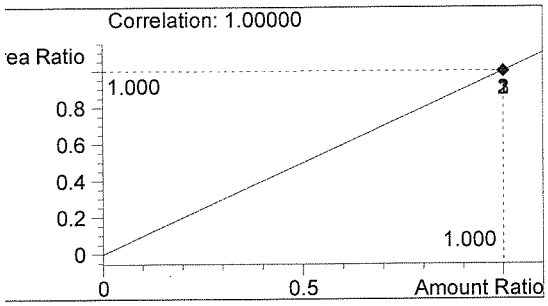


#	Compound	Area	RT
1	ETHANOL	1261	1.092
2	n-PROPANOL	2977	1.754

Totals:



ETHANOL 0.097 g/100mL

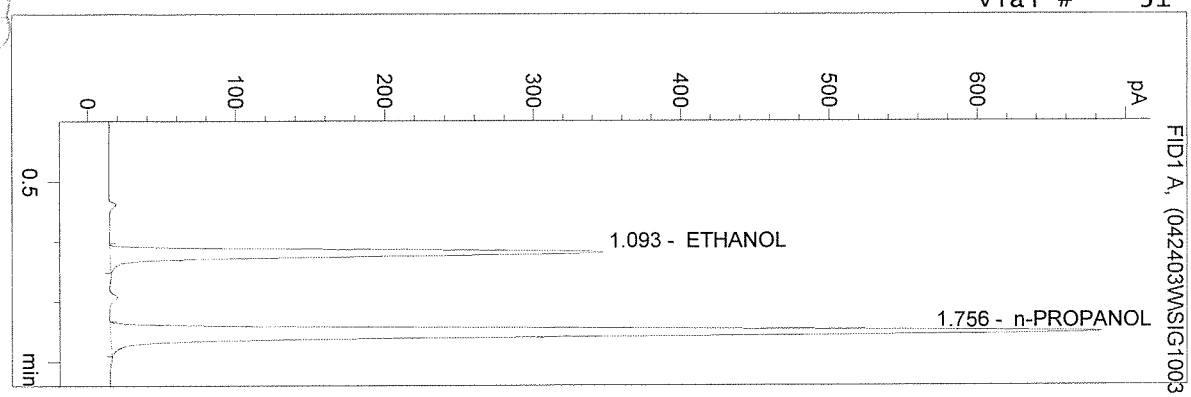


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
'24/03 11:35:19 AM
ıstrument 3
ALC1

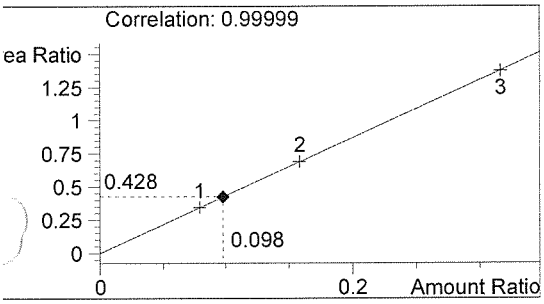
QA 03011
WP MARSHALL

vial # 31

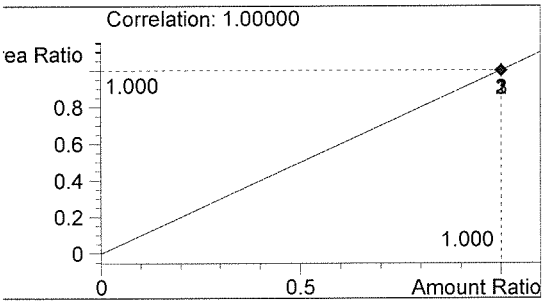


#	Compound	Area	RT
1	ETHANOL	1295	1.093
2	n-PROPANOL	3025	1.756

Totals:



ETHANOL 0.098 g/100mL

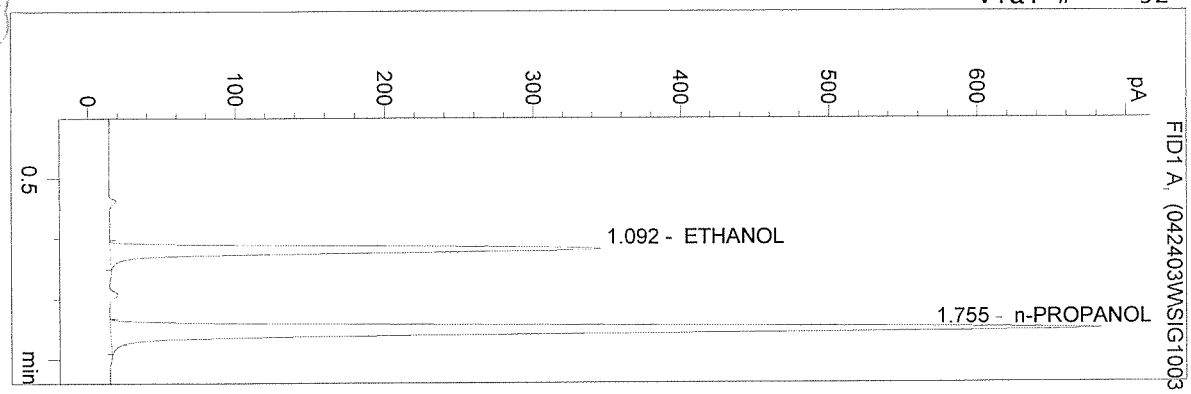


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
24/03 11:38:41 AM
strument 3
ALC1

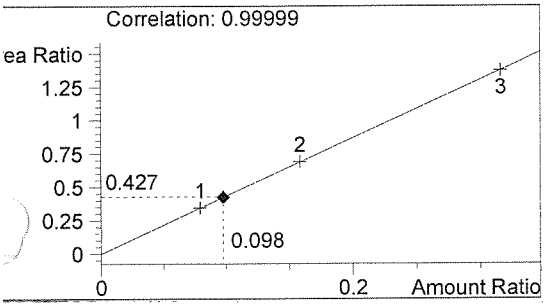
QA 03011
WP MARSHALL

vial # 32

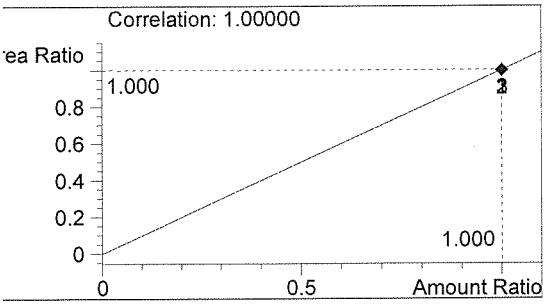


#	Compound	Area	RT
1	ETHANOL	1294	1.092
2	n-PROPANOL	3030	1.755

Totals:



ETHANOL 0.098 g/100mL

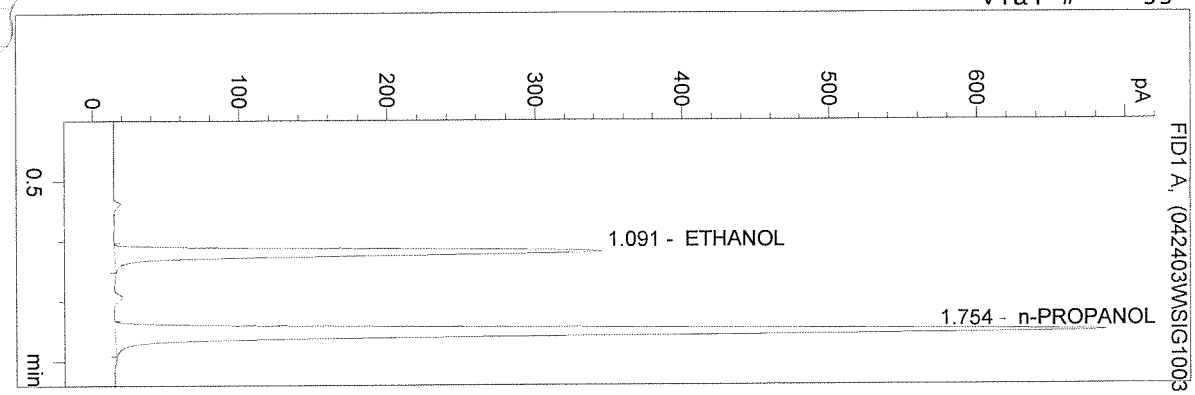


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
24/03 11:42:04 AM
strument 3
ALC1

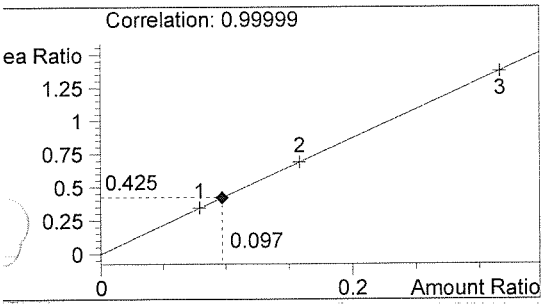
QA 03011
WP MARSHALL

vial # 33

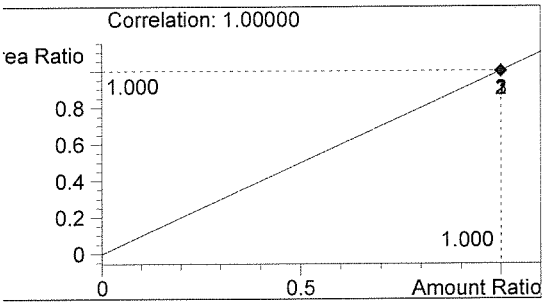


#	Compound	Area	RT
1	ETHANOL	1293	1.091
2	n-PROPANOL	3043	1.754

Totals:



ETHANOL 0.097 g/100mL

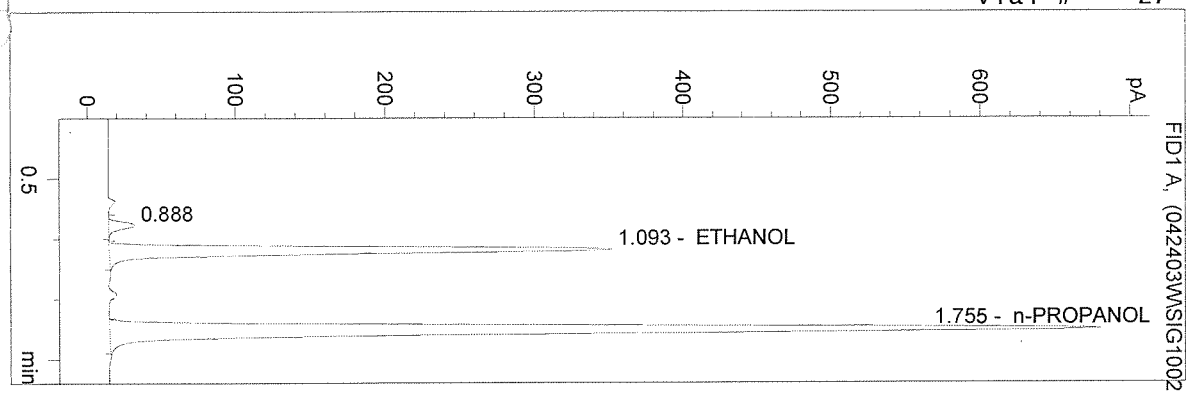


n-PROPANOL 1.000 g/100mL

\HPCHEM\1\METHODS\BLDALCO3.M
'24/03 11:21:48 AM
ıstrument 3
ALC1

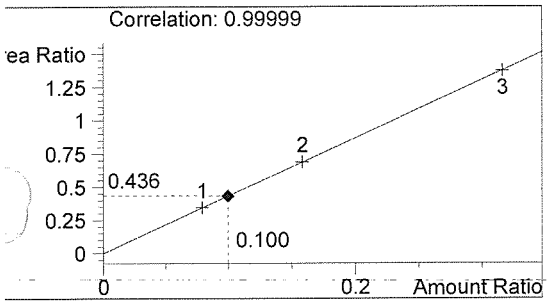
0.100 CONTROL
WP MARSHALL

vial # 27

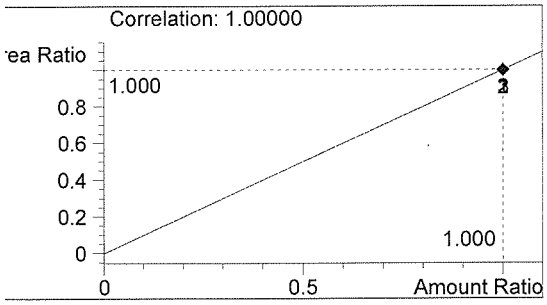


#	Compound	Area	RT
1		69	0.888
2	ETHANOL	1316	1.093
3	n-PROPANOL	3017	1.755

Totals:



ETHANOL 0.100 g/100mL



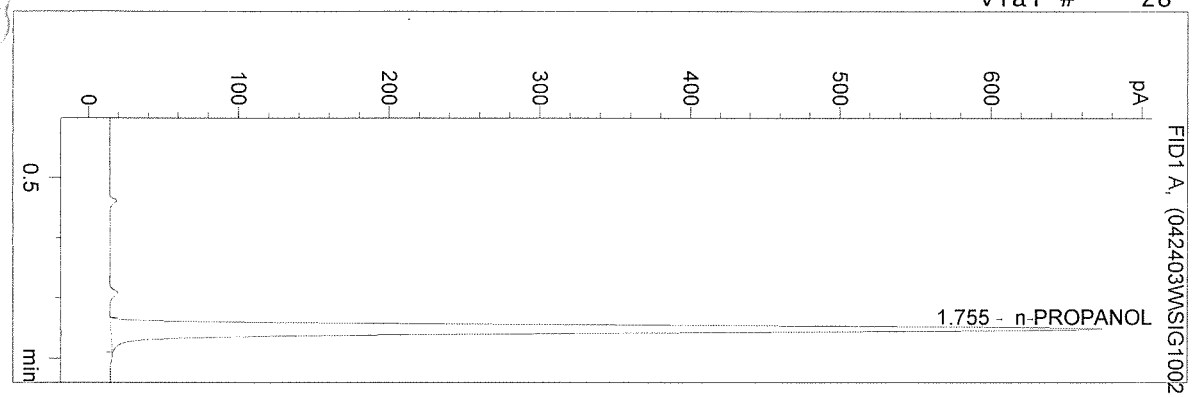
n-PROPANOL 1.000 g/100mL

WASHINGTON STATE TOXICOLOGY LABORATORY

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

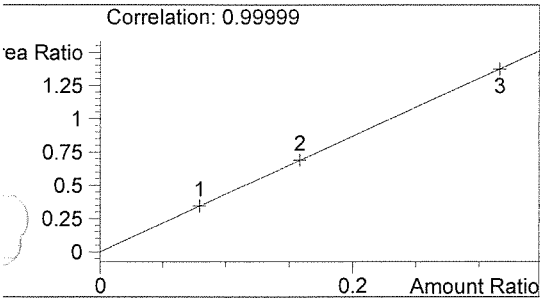
BLANK
WP MARSHALL

vial # 28

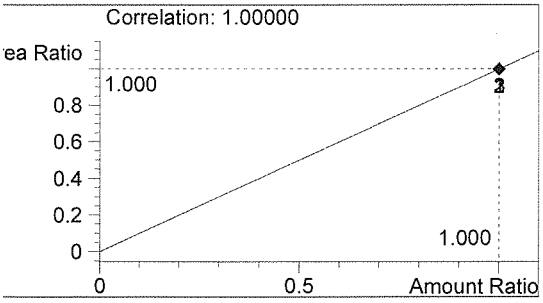


#	Compound	Area	RT
1	ETHANOL	0	0.000
2	n-PROPANOL	2994	1.755

Totals:



ETHANOL 0.000 g/100mL



n-PROPANOL 1.000 g/100mL