WASHINGTON STATE PATROL - TOXICOLOGY LABORATORY DIVISION
2203 Airport Way S, Suite 360 SEATTLE, WA 98134

AN ASCLD/LAB-International ACCREDITED LABORATORY
SINCE 11/18/2000

QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

BATCH REPORT: 11034

CUSTOMER INFORMATION
Washington State Patrol – Breath Test Program
811 East Roanoke SEATTLE, WA 98102

TESTING PROCEDURE USED: TLD Technical Manual, Chapter 4.0 Certification of Simulator Solutions; Headspace-Gas Chromatography.

TESTING ITEM INFORMATION
TARGET VAPOR CONCENTRATION: 0.04 g/210L
DATE PREPARED: 08/10/2011
BATCH UNITS: g/100mL

IDENTITY: QAP Solution
PREPARED BY: Lisa Noble

	LN	CM	BP
1	0.048	0.049	0.049
2	0.049	0.049	0.049
3	0.049	0.049	0.049
4	0.049	0.049	0.049
5	0.049	0.049	0.048
C	0.101	0.099	0.100

ETHANOL CONTROL INFORMATION
LOT NUMBER: A075806 EXPIRATION: 11/2014 CONCENTRATION: 0.10 g/100mL

RESULTS OF TESTING
AVERAGE SOLUTION CONCENTRATION: 0.0489 g/100mL
STANDARD DEVIATION: 0.00035
PRECISION CV (%): 0.72
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0397 g/210L**
COMBINED STANDARD UNCERTAINTY: ± 0.0005 (k=1, 68% confidence interval)

WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION

Melissa Pemberton FS-5 9.12.2011
Melissa L. Pemberton Forensic Scientist Supervisor DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

ANALYST	NAME	SIGNATURE	DATE TESTED
LN	Lisa Noble	Lisa Noble	08/10/2011
CM	Christie Mitchell	Christie Mitchell	08/12/2011
BP	Brianna Peterson	Brianna Peterson	08/19/2011

This report applies only to the item being tested and shall not be reproduced except in full, without the written approval of the WSP Toxicology Laboratory Division.

Washington State Patrol - Toxicology Laboratory Division
QAP Test Report Calculation Record

QAP Solution Batch #: 11034 **Date Prepared:** 8/10/2011

Analyst:	LN	CM	BP
Date Tested:	8/10/2011	8/12/2011	8/19/2011
Instrument:	HS#1	HS#1	HS#1
1	0.048	0.049	0.049
2	0.049	0.049	0.049
3	0.049	0.049	0.049
4	0.049	0.049	0.049
5	0.049	0.049	0.048
C	0.101	0.099	0.100

CV^2_{COA}	$CV^2_{QAP\ Solution}$	$CV^2_{Control}$	$CV^2_{Part\ Coef}$
0.0000084100	0.0000034565	0.0000333333	0.0001016326

Ethanol Control Lot #: A075806
Control Uncertainty (%): 0.29

Average Solution Concentration: 0.0489 g/100mL
Standard Deviation: 0.00035 g/100mL
Precision CV (%): 0.72
Equivalent Vapor Concentration: 0.0397 g/210L
Combined Standard Uncertainty (±): 0.0005 g/210L

Calculations performed by: Melissa L. Pemberton Melissa L. Pemberton 9.8.11
Name Signature Date

Calculations verified by: JASON SKEEROW 9/9/11
Name Signature Date

Method: HAND CALCULATOR

Tech. review performed by: Melissa L. Pemberton Melissa L. Pemberton 9.9.11
Name Signature Date

Washington State Patrol Toxicology Laboratory Division

SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Jason Sklerov **Date:** 09/09/11

Location: WSP-FLSB; Seattle, WA **Solution Batch Number:** 11034

	YES	NO	N/A
Analysis dates do not precede preparation date:	X		
Declarations signed and properly dated:	X		
Data entry corresponds to all chromatograms:	X		
All signatures present on Test Report:	X		
Average solution concentration correct:	X		
Standard deviation correct:	X		
CV (%) correct:	X		
Equivalent vapor concentration correct:	X		
All chromatograms and sequences included in file:	X		
Ethanol control information present: (lot # present & used within expiration)	X		
Complies with accuracy and precision requirements established by the State Toxicologist:	X		

Comments:

Reviewer Signature: (SKLEROV) **Date:** SEPTEMBER 9, 2011

Reviewer Signature: N/A 9/9/11 **Date:**

Washington State Patrol Toxicology Laboratory Division

SOLUTION CERTIFICATE REVIEW

Please check that the data on your chromatograms is the data entered into the Test Report, that the date to the right of your name is the date that you tested the solution, and then sign the Test Report.

Please initial and date below to affirm that you have:

1) Checked your data
2) Checked the date to the right of your name on the Test Report
3) Signed the Test Report

	Initials	Date
Amanda Black		
Asa Louis		
Brian Capron		
Brianna Peterson	BP	9/8/11
Brianne O'Reilly		
Brittany Ball		
Christie Mitchell	CM	9/8/11
Christopher Johnston		
Dawn Cox		
Justin Knoy		
Lisa Noble	LN	9/8/11
Melissa Pemberton		
Naziha Nuwayhid		
Rebecca Flaherty		
Sarah Swenson		

Batch # 11034

CHRISTINE O. GREGOIRE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2927 • (206) 262-6100 • FAX (206) 262-6145

DATAMASTER 0.04 QAP SOLUTION CERTIFICATION FOR LOT 11034

I, Lisa Noble, 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 DataMaster breath test instrument.

I possess the following qualifications: BS degree in Biochemistry and five years laboratory experience in forensic toxicology.

The qap solution, Lot Number 11034, was prepared in the Washington State Toxicology Laboratory on 8/10/2011. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It shall not be used to perform a quality assurance procedure after 8/10/2012.

Seattle, WA

Lisa Noble 9/8/11

Lisa Noble Date

Forensic Toxicologist

CHRISTINE O. GREGOIRE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2927 • (206) 262-6100 • FAX (206) 262-6145

DATAMASTER 0.04 QAP SOLUTION CERTIFICATION FOR LOT 11034

I, Christie Mitchell, 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 DataMaster breath test instrument.

I possess the following qualifications: BA degree in Chemistry, MFS degree in Forensic Science, and over three years experience in forensic toxicology.

The qap solution, Lot Number 11034, was prepared in the Washington State Toxicology Laboratory on 8/10/2011. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It shall not be used to perform a quality assurance procedure after 8/10/2012.

Seattle, WA

Christie Mitchell 9/8/2011

Christie Mitchell Date

Forensic Toxicologist

CHRISTINE O. GREGOIRE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2927 • (206) 262-6100 • FAX (206) 262-6145

DATAMASTER 0.04 QAP SOLUTION CERTIFICATION FOR LOT 11034

I, Brianna Peterson, 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 DataMaster breath test instrument.

I possess the following qualifications: BS degree in Chemistry, MS degree in Forensic Science, Ph.D. degree in Toxicology, and five years of experience in forensic toxicology.

The qap solution, Lot Number 11034, was prepared in the Washington State Toxicology Laboratory on 8/10/2011. I examined and tested this solution. It was found to conform to those standards established by the state toxicologist for the certification of simulator solution. It shall not be used to perform a quality assurance procedure after 8/10/2012.

Seattle, WA

Brianna Peterson 9/8/11

Brianna Peterson Date

Forensic Toxicologist

Sequence Parameters:

Operator:	Lisa Noble
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	SIG1
Counter:	0001
Signal 2 Prefix:	SIG2
Counter:	0001
Data Directory:	C:\HPCHEM\1\DATA\
Data Subdirectory:	110810LN
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
0.04 Control - Lot#A075264 - exp 10/2014
0.10 Control - Lot#A075806 - exp 11/2014
0.20 Control - Lot#A076521 - exp 12/2014

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	BLANK	SIMALC1	1	Sample		
2	Vial 2	0.079 CAL 1	SIMALC1	1	Calib		
3	Vial 3	0.158 CAL 2	SIMALC1	1	Calib		
4	Vial 4	0.316 CAL 3	SIMALC1	1	Calib		
5	Vial 5	NEG CTRL - LN	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL - LN	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL - LN	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL - LN	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL - LN	SIMALC1	1	Ctrl Samp		
10	Vial 10	11034 #1	SIMALC1	1	Sample		
11	Vial 11	11034 #2	SIMALC1	1	Sample		
12	Vial 12	11034 #3	SIMALC1	1	Sample		
13	Vial 13	11034 #4	SIMALC1	1	Sample		
14	Vial 14	11034 #5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL - LN	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL - LN	SIMALC1	1	Ctrl Samp		
17	Vial 17	11035 #1	SIMALC1	1	Sample		
18	Vial 18	11035 #2	SIMALC1	1	Sample		
19	Vial 19	11035 #3	SIMALC1	1	Sample		
20	Vial 20	11035 #4	SIMALC1	1	Sample		
21	Vial 21	11035 #5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL - LN	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL - LN	SIMALC1	1	Ctrl Samp		
24	Vial 24	11036 #1	SIMALC1	1	Sample		
25	Vial 25	11036 #2	SIMALC1	1	Sample		
26	Vial 26	11036 #3	SIMALC1	1	Sample		
27	Vial 27	11036 #4	SIMALC1	1	Sample		
28	Vial 28	11036 #5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL - LN	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL - LN	SIMALC1	1	Ctrl Samp		
31	Vial 31	11037 #1	SIMALC1	1	Sample		
32	Vial 32	11037 #2	SIMALC1	1	Sample		

Calibration filed with QAP 11034.
Jn 8/10/11

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Sequence: C:\HPCHEM\1\SEQUENCE\LNQAP1.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
33	Vial 33	11037 #3	SIMALC1	1	Sample		
34	Vial 34	11037 #4	SIMALC1	1	Sample		
35	Vial 35	11037 #5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL - LN	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL - LN	SIMALC1	1	Ctrl Samp		

Calibration Part:

Line	Location	SampleName	Method	CalLev	Update RF	Update RT	Interval
2	Vial 2	0.079 CAL 1	SIMALC1	1	Replace	Replace	
3	Vial 3	0.158 CAL 2	SIMALC1	2	Replace	Replace	
4	Vial 4	0.316 CAL 3	SIMALC1	3	Replace	Replace	

Sequence Table (Back Injector):

No entries - empty table!

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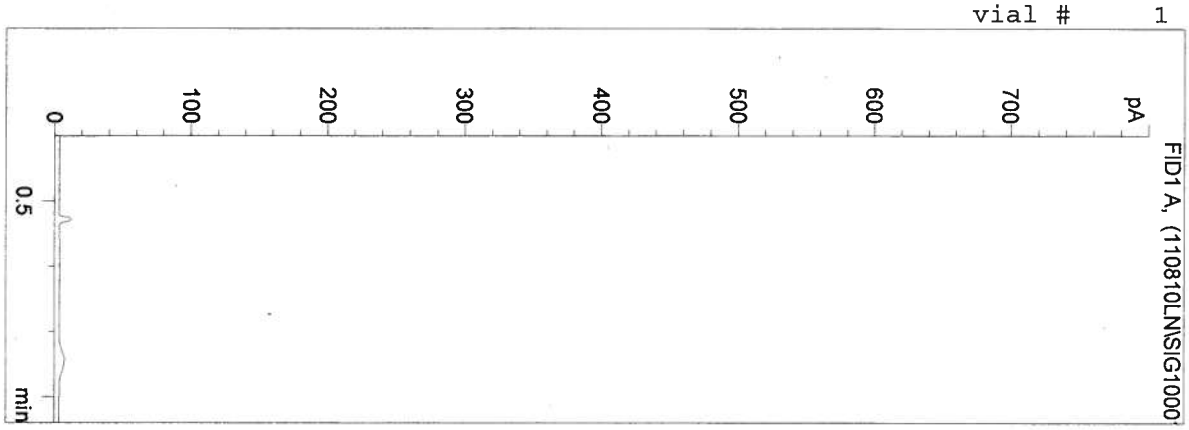
WASHINGTON STATE TOXICOLOGY LABORATORY

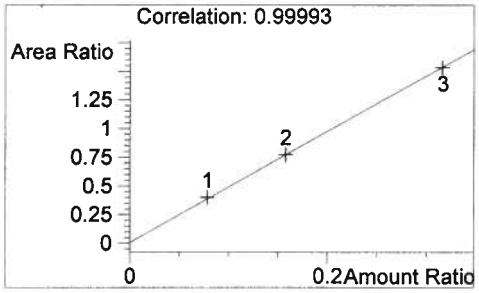
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:24:24 AM
Instrument 1
DB-ALC1

BLANK
Lisa Noble

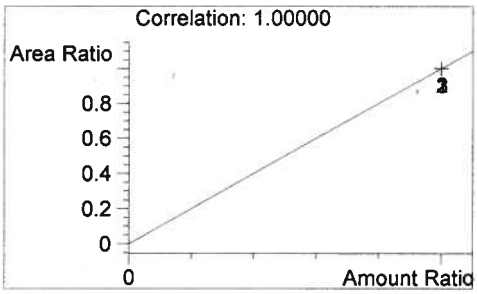
vial # 1



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



Ethanol 0.000 g/100 mL



n-Propanol 0.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

C:\HPCHEM\1\METHODS\SIMALC1.M
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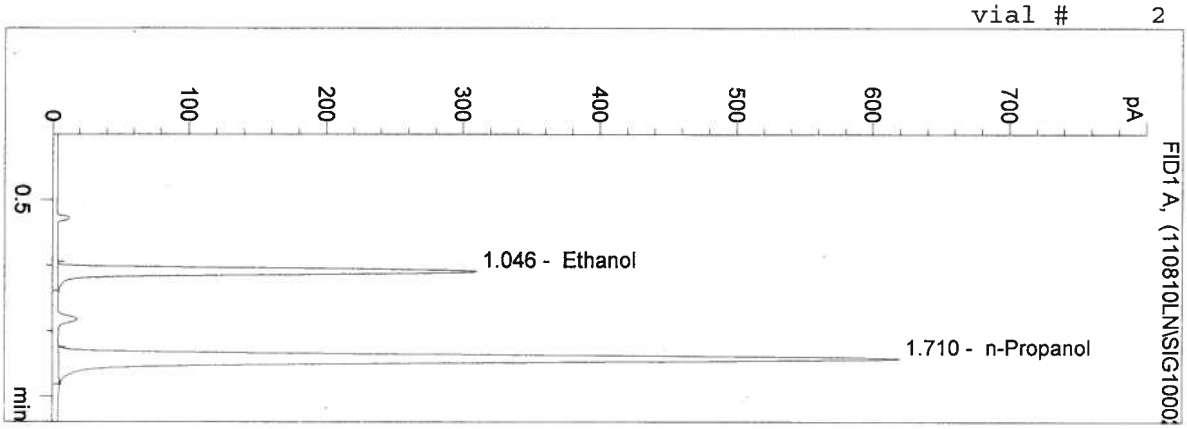
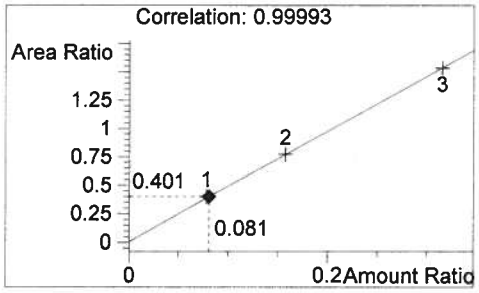
Instrument 1
DB-ALC1

0.079 CAL 1
Lisa Noble

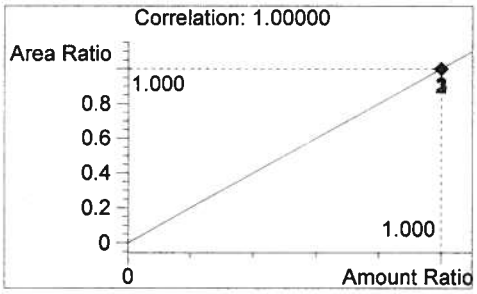
vial # 2



#	Compound	Area	RT
1	Ethanol	1006	1.046
2	n-Propanol	2511	1.710
Tot			



Ethanol 0.081 g/100 mL



n-Propanol 1.000 g/100 mL

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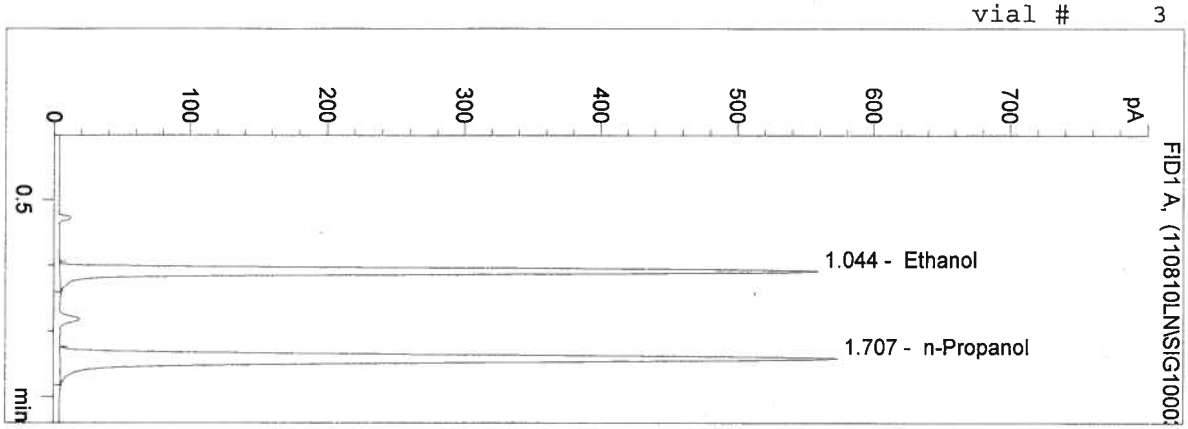
WASHINGTON STATE TOXICOLOGY LABORATORY

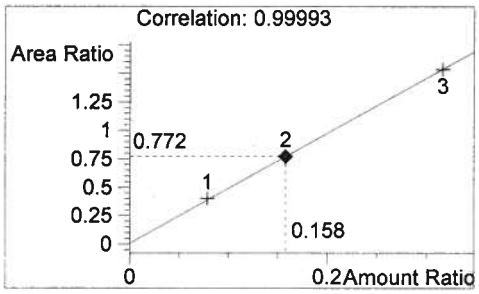
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:30:33 AM
Instrument 1
DB-ALC1

0.158 CAL 2
Lisa Noble

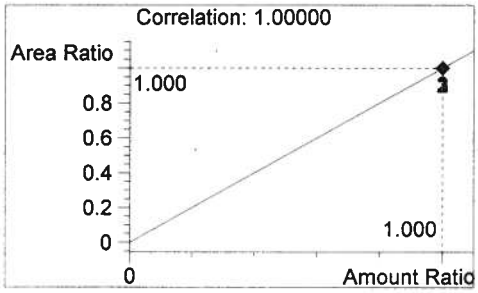
vial # 3



#	Compound	Area	RT
1	Ethanol	1796	1.044
2	n-Propanol	2327	1.707
Tot			



Ethanol 0.158 g/100 mL



n-Propanol 1.000 g/100 mL

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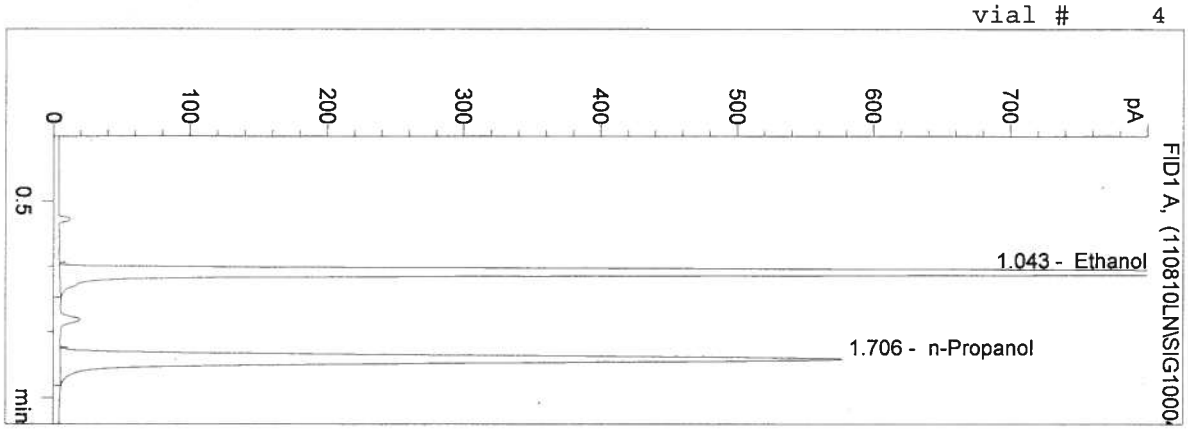
WASHINGTON STATE TOXICOLOGY LABORATORY

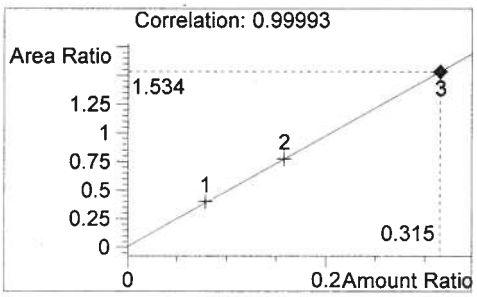
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:33:38 AM
Instrument 1
DB-ALC1

0.316 CAL 3
Lisa Noble

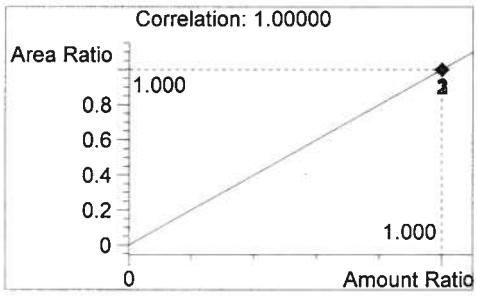
vial # 4



#	Compound	Area	RT
1	Ethanol	3570	1.043
2	n-Propanol	2327	1.706
Tot			



Ethanol 0.315 g/100 mL



n-Propanol 1.000 g/100 mL

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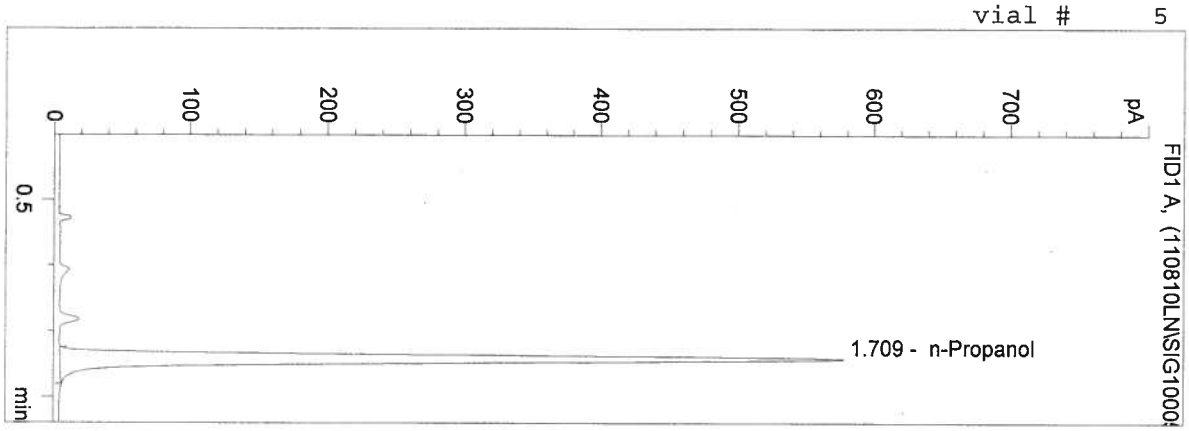
WASHINGTON STATE TOXICOLOGY LABORATORY

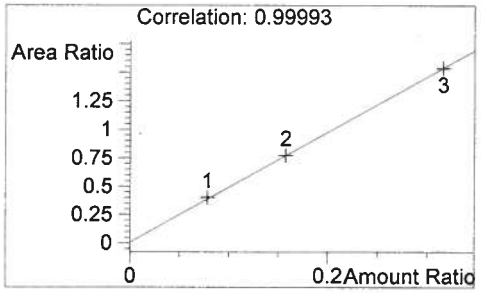
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:36:43 AM
Instrument 1
DB-ALC1

NEG CTRL - LN
Lisa Noble

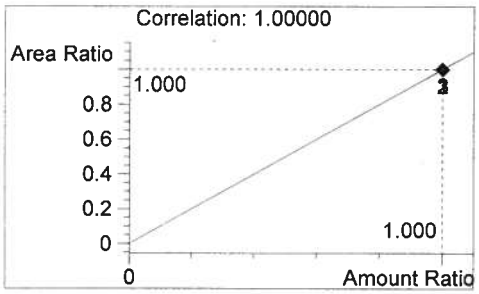
vial # 5



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2343	1.709
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

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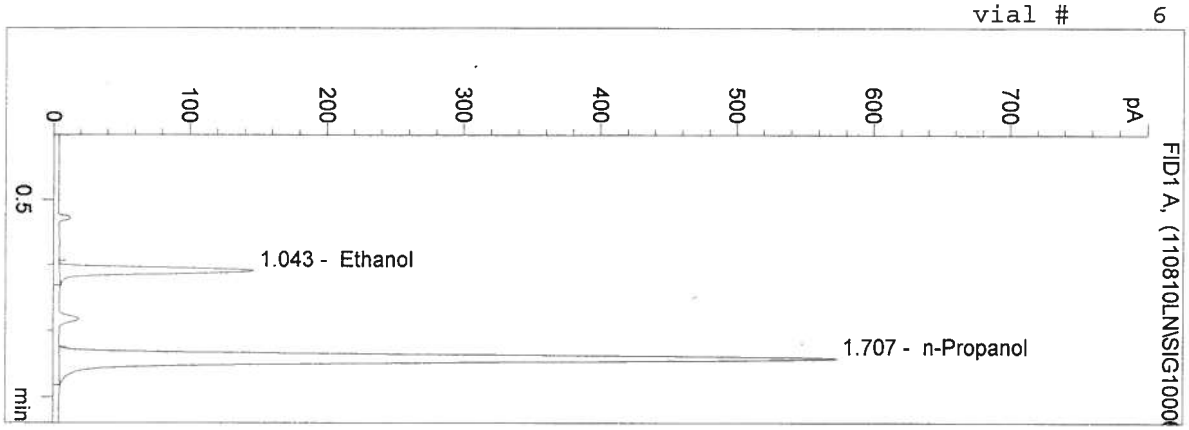
11037 8/29/11

WASHINGTON STATE TOXICOLOGY LABORATORY

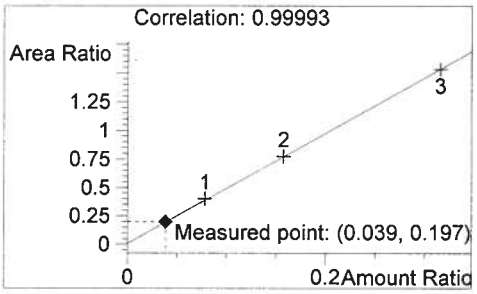
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:39:47 AM
Instrument 1
DB-ALC1

0.04 CTRL - LN
Lisa Noble

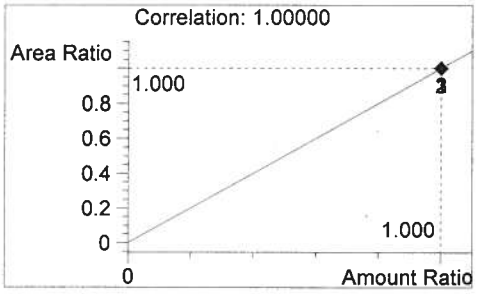
vial # 6



#	Compound	Area	RT
1	Ethanol	457	1.043
2	n-Propanol	2319	1.707
Tot			



Ethanol 0.039 g/100 mL



n-Propanol 1.000 g/100 mL

fn

11034

11035 SHS 81241

11036

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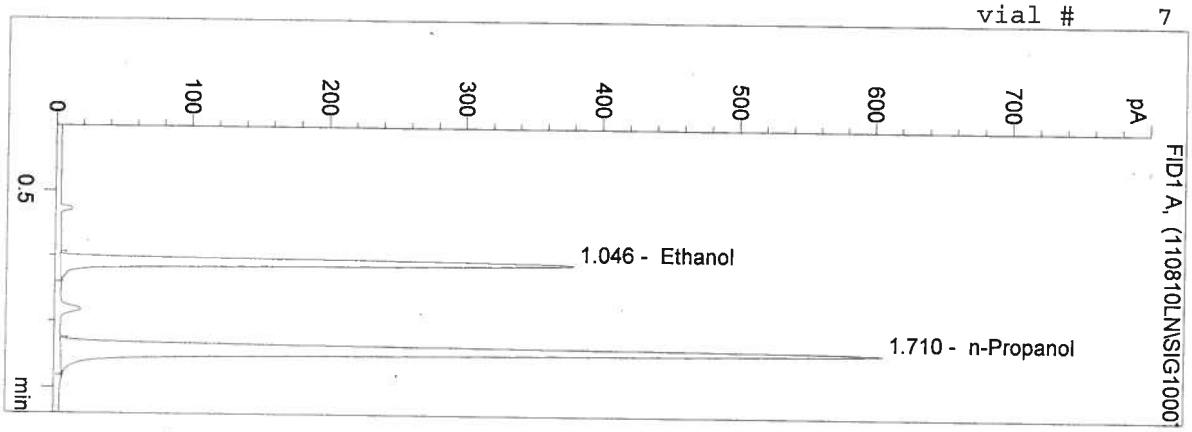
WASHINGTON STATE TOXICOLOGY LABORATORY

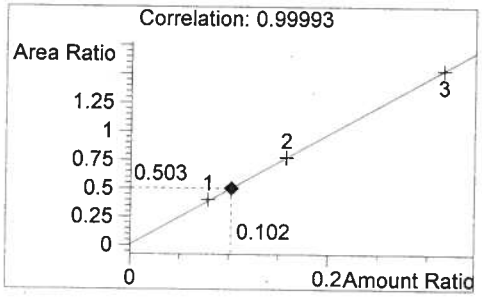
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:42:52 AM
Instrument 1
DB-ALC1

0.10 CTRL - LN
Lisa Noble

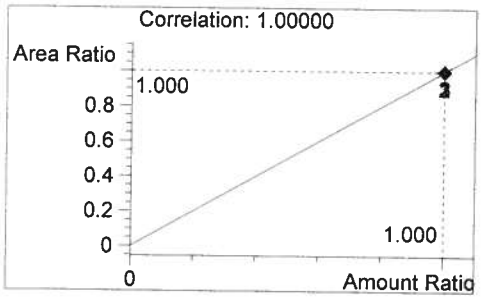
vial # 7



#	Compound	Area	RT
1	Ethanol	1239	1.046
2	n-Propanol	2465	1.710
Tot			



Ethanol 0.102 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035 JWS 8/24/11

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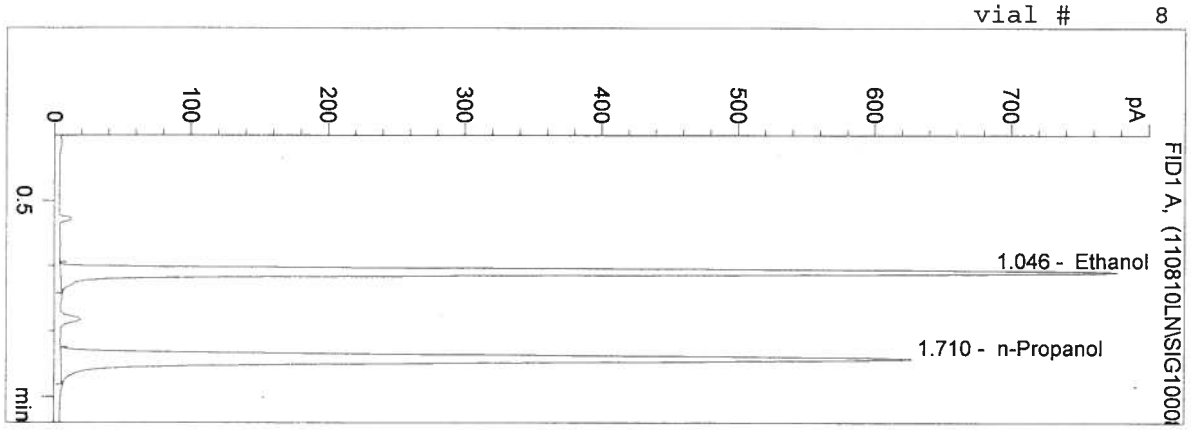
WASHINGTON STATE TOXICOLOGY LABORATORY

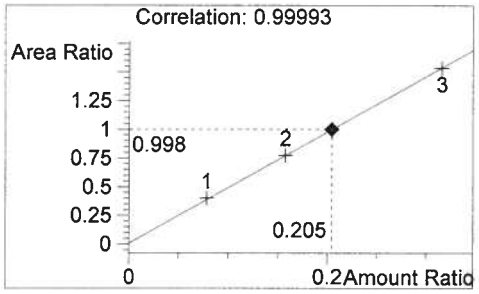
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:45:57 AM
Instrument 1
DB-ALC1

0.20 CTRL - LN
Lisa Noble

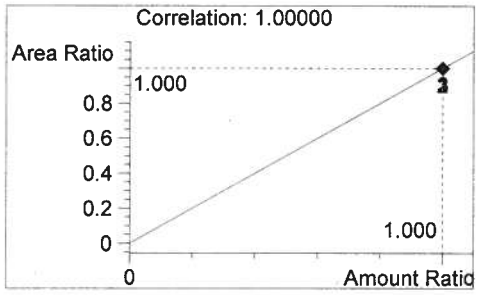
vial # 8



#	Compound	Area	RT
1	Ethanol	2543	1.046
2	n-Propanol	2547	1.710
Tot			



Ethanol 0.205 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035

11036

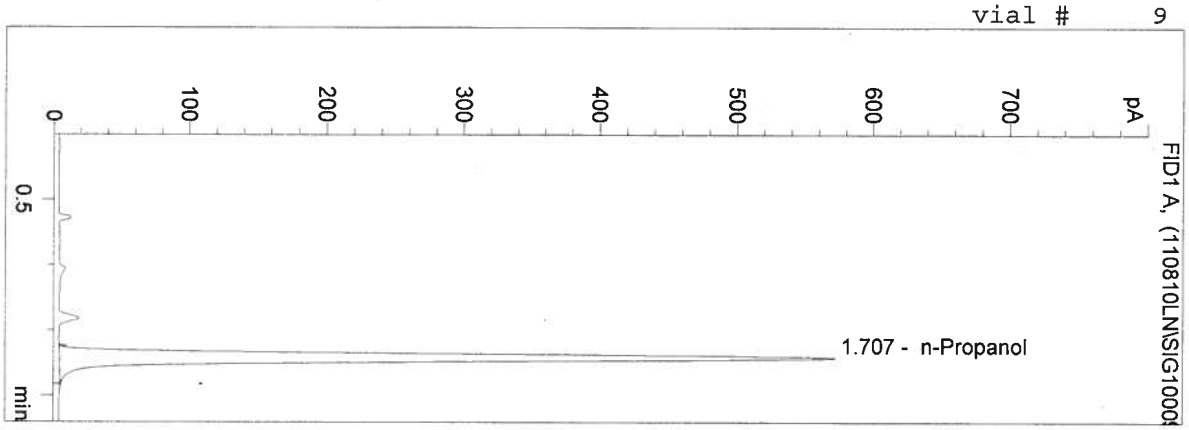
11037

WASHINGTON STATE TOXICOLOGY LABORATORY

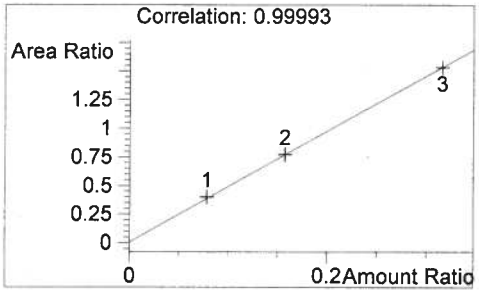
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:49:02 AM
Instrument 1
DB-ALC1

NEG CTRL - LN
Lisa Noble

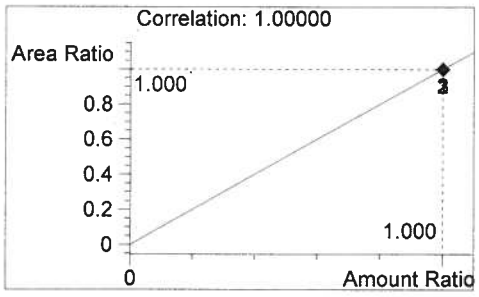
vial # 9



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2319	1.707
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035 8/29

11037

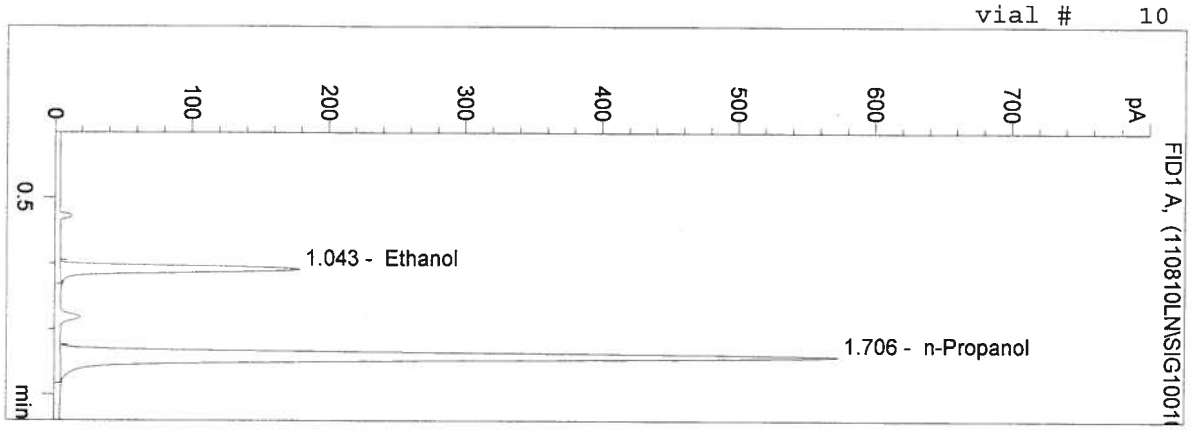
11036 8/29

WASHINGTON STATE TOXICOLOGY LABORATORY

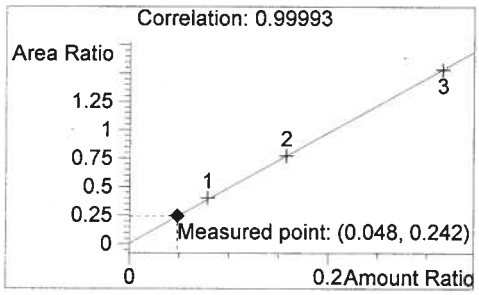
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:52:08 AM
Instrument 1
DB-ALC1

11034 #1
Lisa Noble

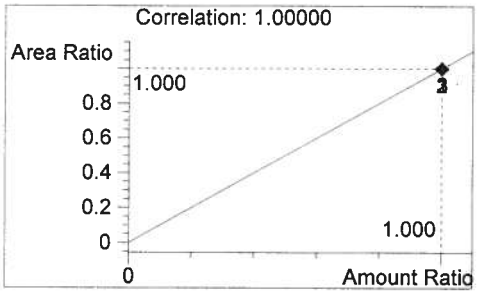
vial # 10



#	Compound	Area	RT
1	Ethanol	562	1.043
2	n-Propanol	2318	1.706
Tot			



Ethanol 0.048 g/100 mL



n-Propanol 1.000 g/100 mL

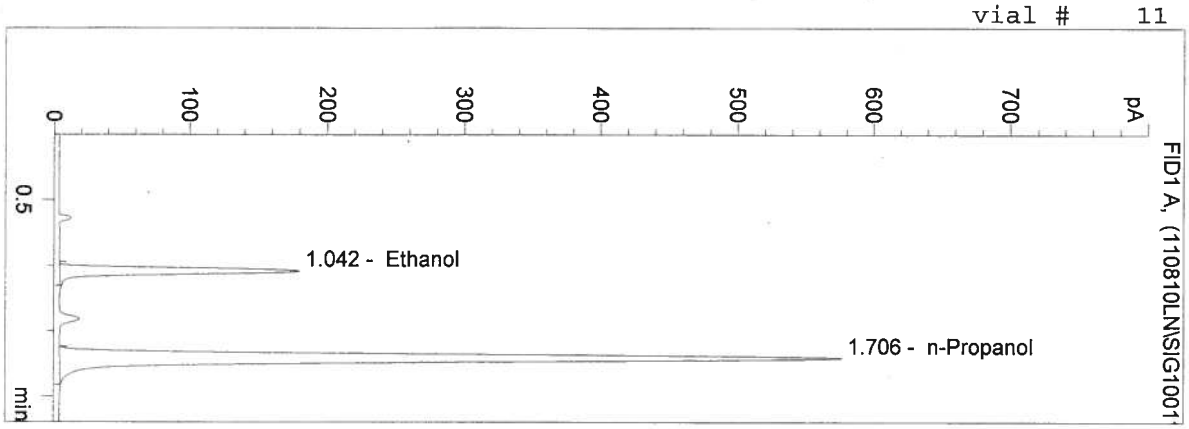
fn

WASHINGTON STATE TOXICOLOGY LABORATORY

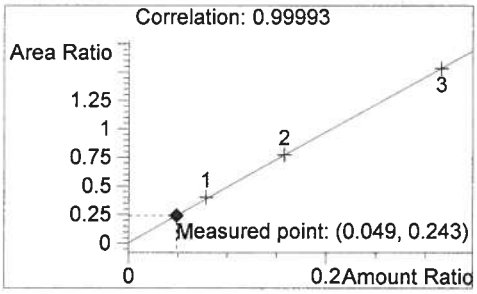
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:55:13 AM
Instrument 1
DB-ALC1

11034 #2
Lisa Noble

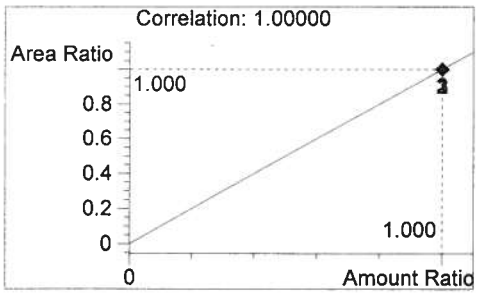
vial # 11



#	Compound	Area	RT
1	Ethanol	567	1.042
2	n-Propanol	2331	1.706
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

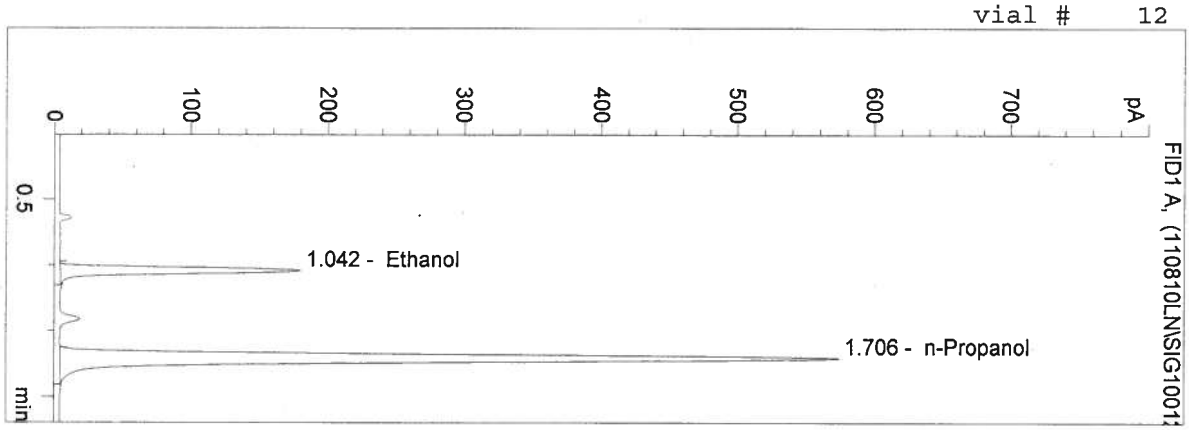
Ln

WASHINGTON STATE TOXICOLOGY LABORATORY

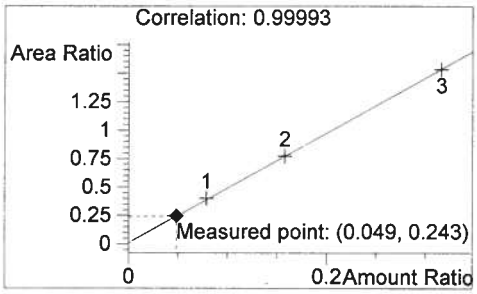
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 11:58:18 AM
Instrument 1
DB-ALC1

11034 #3
Lisa Noble

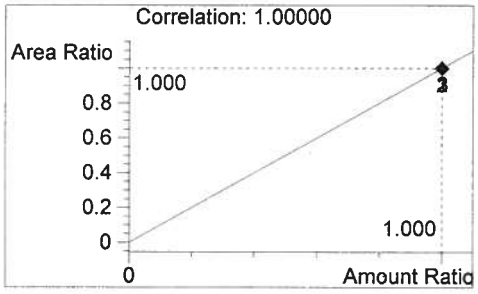
vial # 12



#	Compound	Area	RT
1	Ethanol	564	1.042
2	n-Propanol	2322	1.706
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

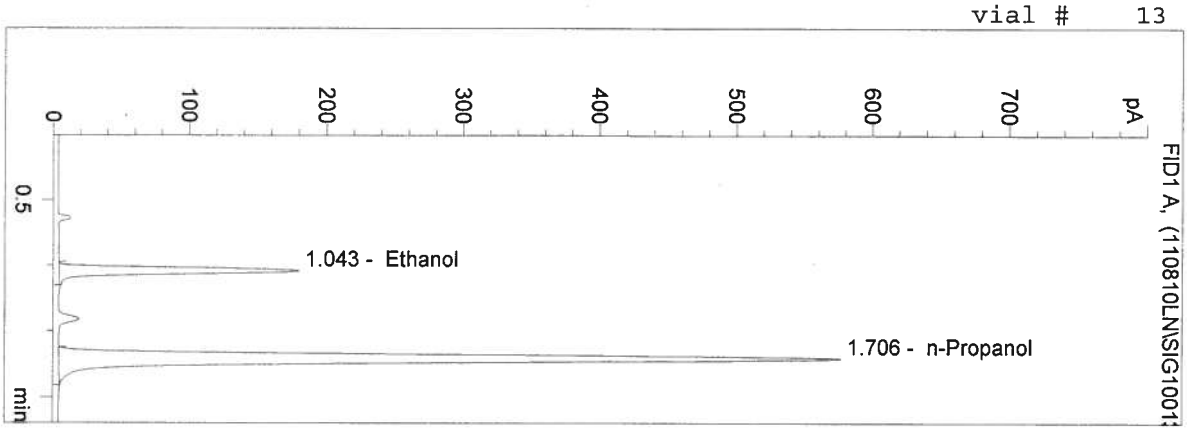
Ln

WASHINGTON STATE TOXICOLOGY LABORATORY

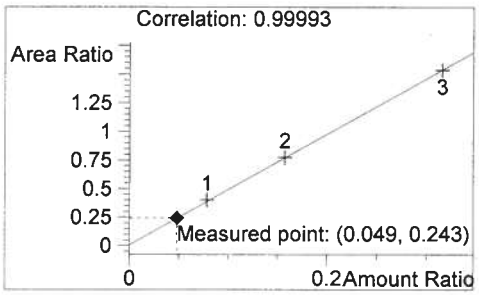
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 12:01:23 PM
Instrument 1
DB-ALC1

11034 #4
Lisa Noble

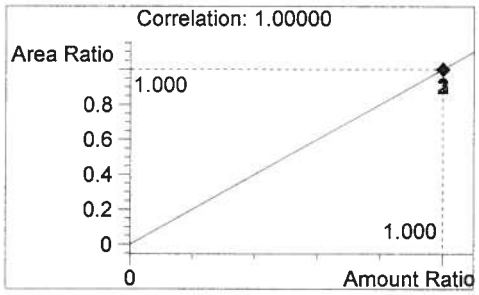
vial # 13



#	Compound	Area	RT
1	Ethanol	565	1.043
2	n-Propanol	2328	1.706
Tot			



Ethanol 0.049 g/100 mL



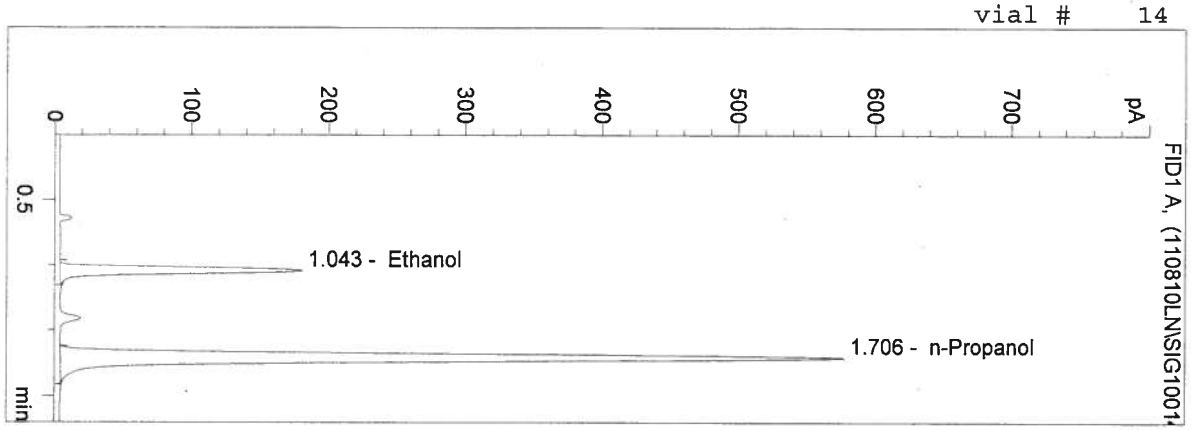
n-Propanol 1.000 g/100 mL

WASHINGTON STATE TOXICOLOGY LABORATORY

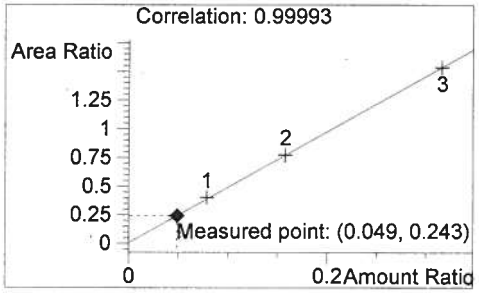
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 12:04:28 PM
Instrument 1
DB-ALC1

11034 #5
Lisa Noble

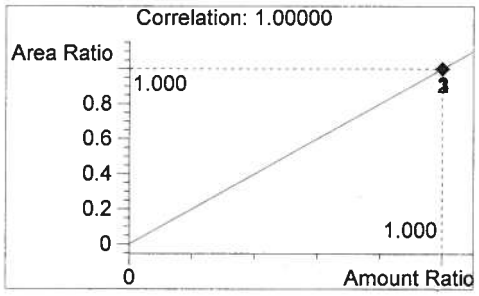
vial # 14



#	Compound	Area	RT
1	Ethanol	568	1.043
2	n-Propanol	2332	1.706
Tot			



Ethanol 0.049 g/100 mL



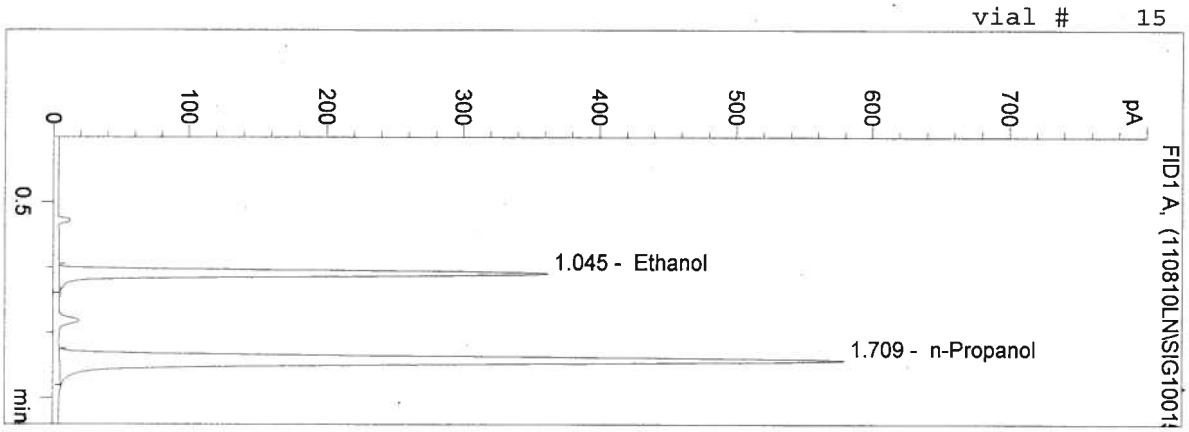
n-Propanol 1.000 g/100 mL

WASHINGTON STATE TOXICOLOGY LABORATORY

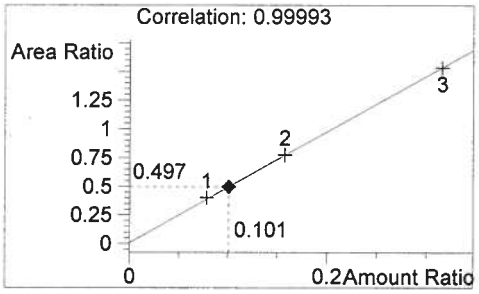
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 12:07:32 PM
Instrument 1
DB-ALC1

0.10 CTRL - LN
Lisa Noble

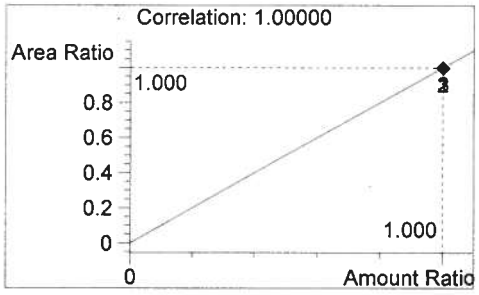
vial # 15



#	Compound	Area	RT
1	Ethanol	1165	1.045
2	n-Propanol	2345	1.709
Tot			



Ethanol 0.101 g/100 mL



n-Propanol 1.000 g/100 mL

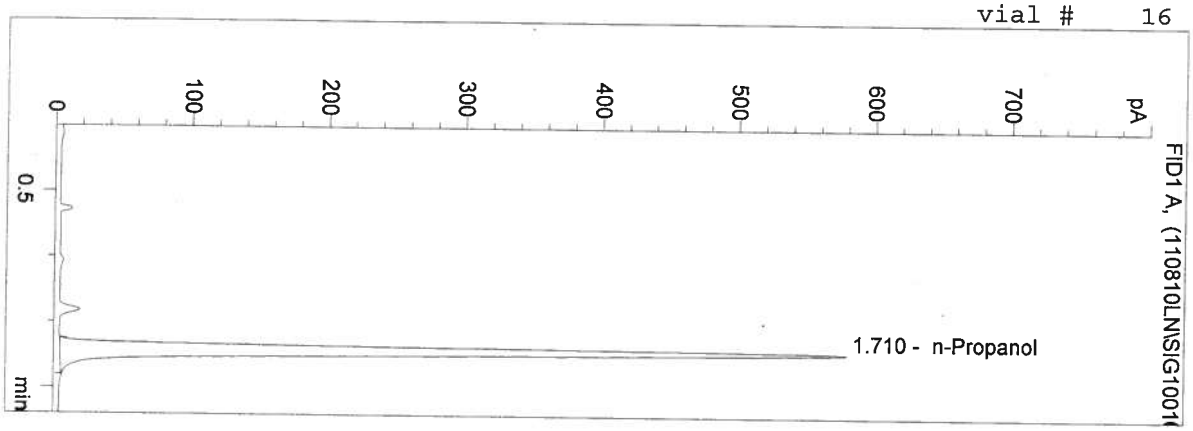
11034

WASHINGTON STATE TOXICOLOGY LABORATORY

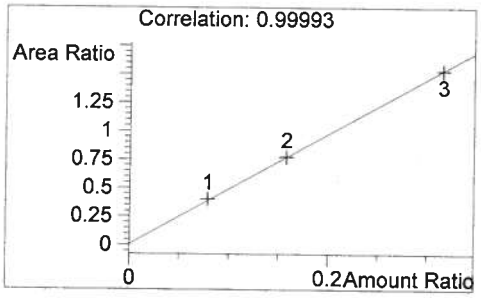
C:\HPCHEM\1\METHODS\SIMALC1.M
8/10/2011 12:10:37 PM
Instrument 1
DB-ALC1

NEG CTRL - LN
Lisa Noble

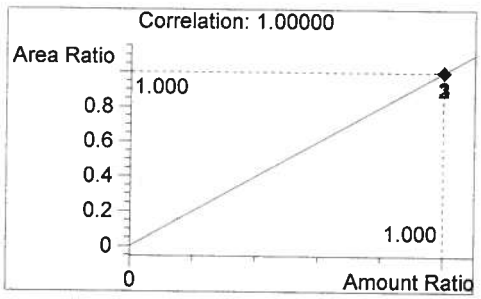
vial # 16



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2344	1.710
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

LN

11034

Sequence Parameters:

Operator:	Christie Mitchell
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	SIG1
Counter:	0001
Signal 2 Prefix:	SIG2
Counter:	0001
Data Directory:	C:\HPCHEM\1\DATA\
Data Subdirectory:	110812CM
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
0.04 Control - Lot # A075264 - exp 10/2014
0.10 Control - Lot # A075806 - exp 11/2014
0.20 Control - Lot # A076521 - exp 12/2014

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	BLANK	SIMALC1	1	Sample		
2	Vial 2	0.079 CAL 1	SIMALC1	1	Calib		
3	Vial 3	0.158 CAL 2	SIMALC1	1	Calib		
4	Vial 4	0.316 CAL 3	SIMALC1	1	Calib		
5	Vial 5	NEG CTRL - CM	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL - CM	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL - CM	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL -CM	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL - CM	SIMALC1	1	Ctrl Samp		
10	Vial 10	11034 #1	SIMALC1	1	Sample		
11	Vial 11	11034 #2	SIMALC1	1	Sample		
12	Vial 12	11034 #3	SIMALC1	1	Sample		
13	Vial 13	11034 #4	SIMALC1	1	Sample		
14	Vial 14	11034 #5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL - CM	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL - CM	SIMALC1	1	Ctrl Samp		
17	Vial 17	11035 #1	SIMALC1	1	Sample		
18	Vial 18	11035 #2	SIMALC1	1	Sample		
19	Vial 19	11035 #3	SIMALC1	1	Sample		
20	Vial 20	11035 #4	SIMALC1	1	Sample		
21	Vial 21	11035 #5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL - CM	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL - CM	SIMALC1	1	Ctrl Samp		
24	Vial 24	11036 #1	SIMALC1	1	Sample		
25	Vial 25	11036 #2	SIMALC1	1	Sample		
26	Vial 26	11036 #3	SIMALC1	1	Sample		
27	Vial 27	11036 #4	SIMALC1	1	Sample		
28	Vial 28	11036 #5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL - CM	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL - CM	SIMALC1	1	Ctrl Samp		
31	Vial 31	11037 #1	SIMALC1	1	Sample		
32	Vial 32	11037 #2	SIMALC1	1	Sample		

11034

11035

11036

CM 11037

Calibrators filed with 11034.

Sequence: C:\HPCHEM\1\SEQUENCE\CMQAP.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
33	Vial 33	11037 #3	SIMALC1	1	Sample		
34	Vial 34	11037 #4	SIMALC1	1	Sample		
35	Vial 35	11037 #5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL - CM	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL - CM	SIMALC1	1	Ctrl Samp		

Calibration Part:

Line	Location	SampleName	Method	CalLev	Update RF	Update RT	Interval
2	Vial 2	0.079 CAL 1	SIMALC1	1	Replace	Replace	
3	Vial 3	0.158 CAL 2	SIMALC1	2	Replace	Replace	
4	Vial 4	0.316 CAL 3	SIMALC1	3	Replace	Replace	

Sequence Table (Back Injector):

No entries - empty table!

11034

11035

11036

11037

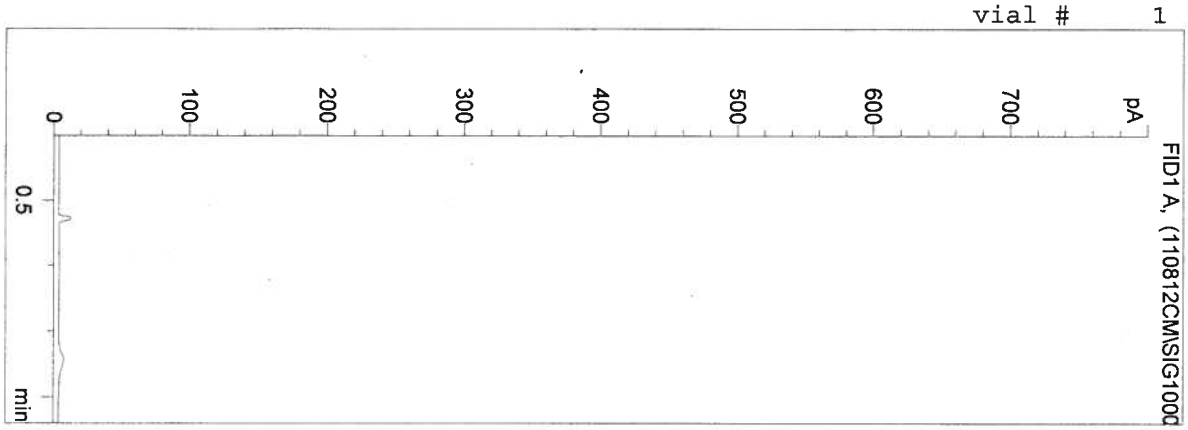
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

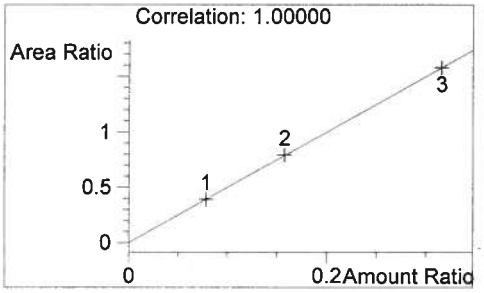
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 9:51:25 AM
Instrument 1
DB-ALC1

BLANK
Christie Mitchell

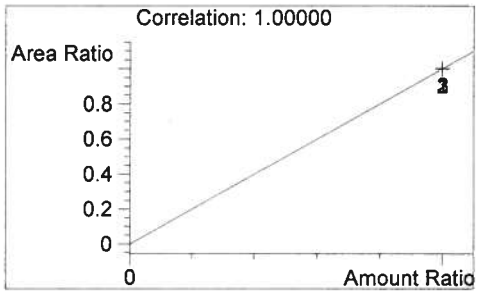
vial # 1



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



Ethanol 0.000 g/100 mL



n-Propanol 0.000 g/100 mL

11034

11035

11036

11037

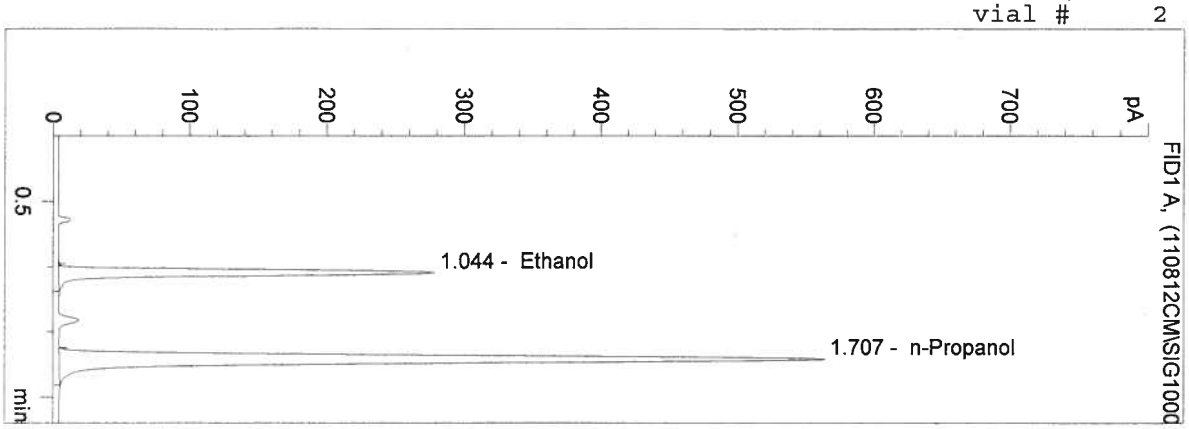
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

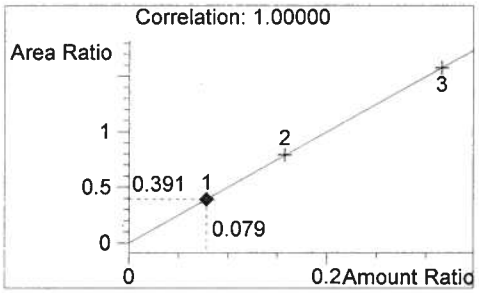
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 9:54:29 AM
Instrument 1
DB-ALC1

0.079 CAL 1
Christie Mitchell

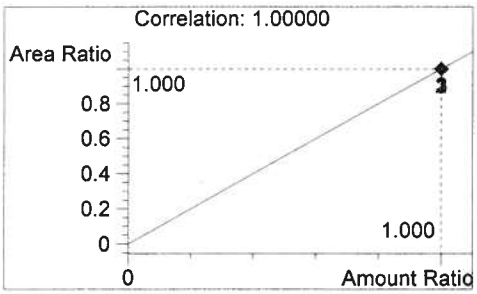
vial # 2



#	Compound	Area	RT
1	Ethanol	889	1.044
2	n-Propanol	2271	1.707
Tot			



Ethanol 0.079 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035

11036

11037

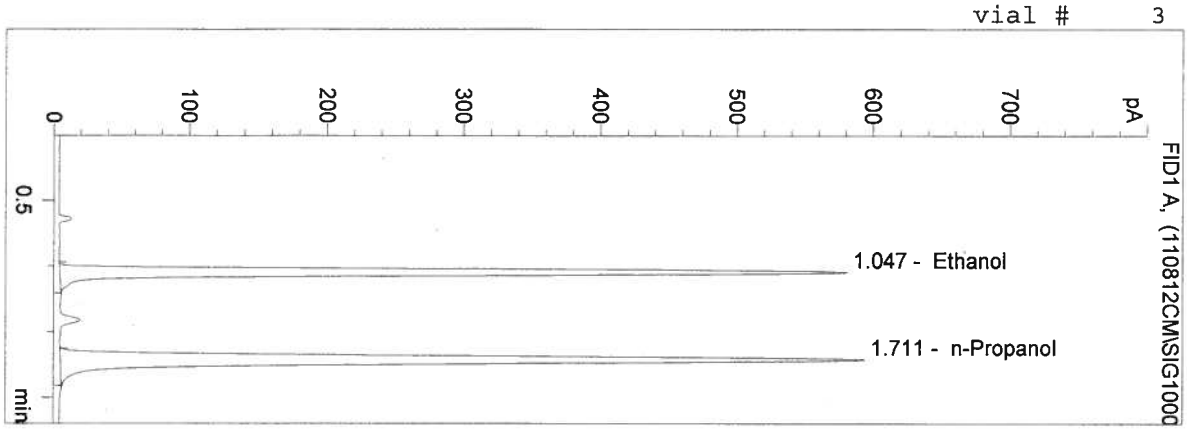
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

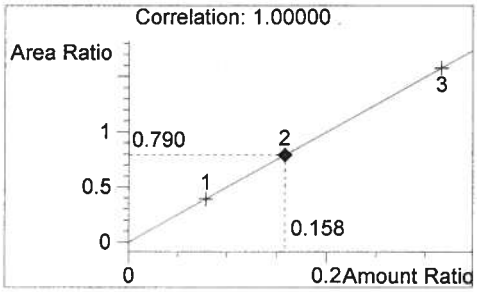
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 9:57:34 AM
Instrument 1
DB-ALC1

0.158 CAL 2
Christie Mitchell

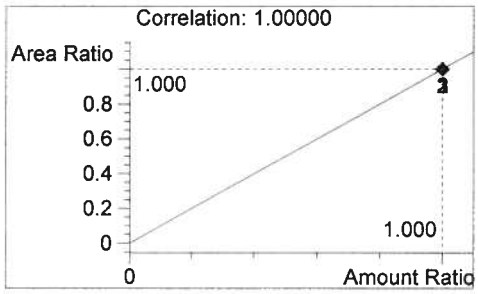
vial # 3



#	Compound	Area	RT
1	Ethanol	1908	1.047
2	n-Propanol	2414	1.711
Tot			



Ethanol 0.158 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035

11036 CM

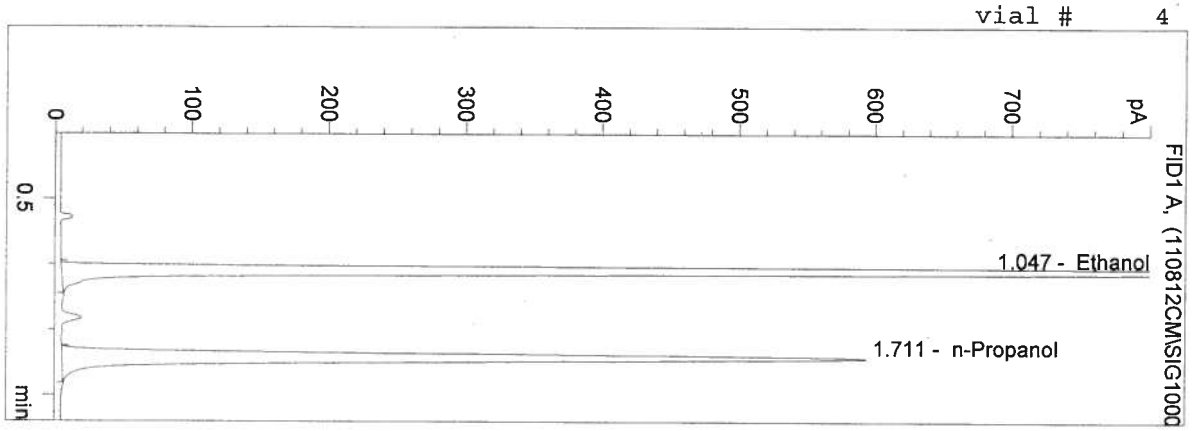
11037

WASHINGTON STATE TOXICOLOGY LABORATORY

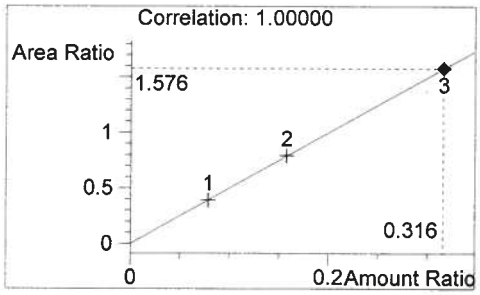
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:00:39 AM
Instrument 1
DB-ALC1

0.316 CAL 3
Christie Mitchell

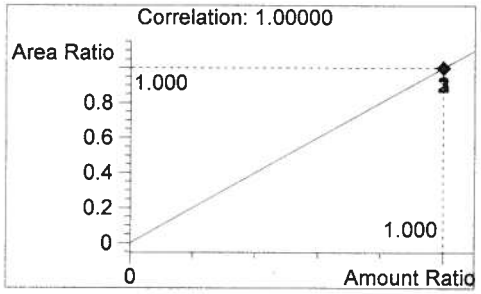
vial # 4



#	Compound	Area	RT
1	Ethanol	3798	1.047
2	n-Propanol	2410	1.711
Tot			



Ethanol 0.316 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035

11036

11037

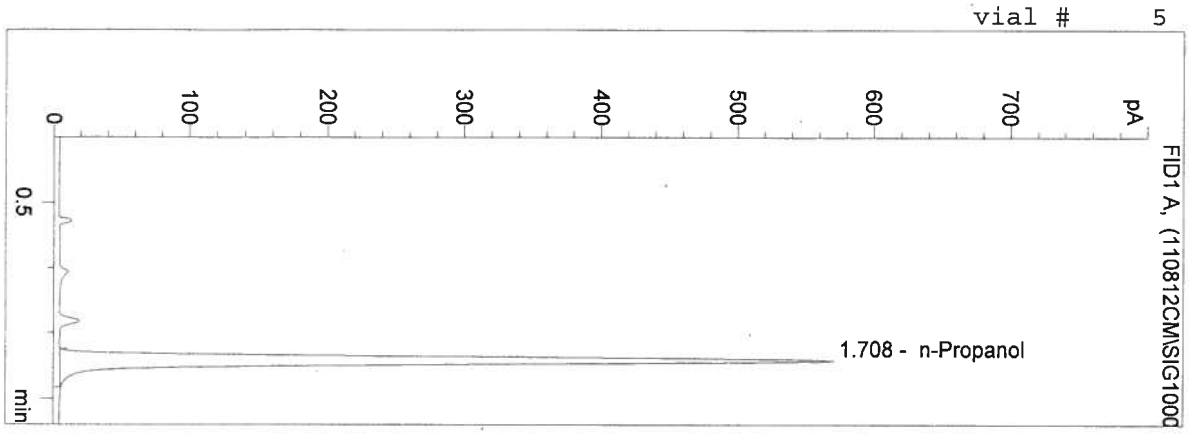
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

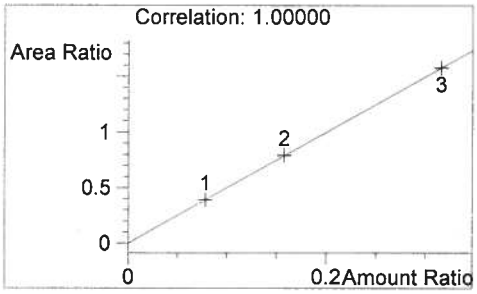
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:03:43 AM
Instrument 1
DB-ALC1

NEG CTRL - CM
Christie Mitchell

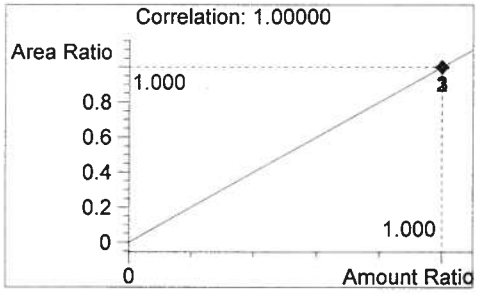
vial # 5



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2305	1.708
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035 CM

11036

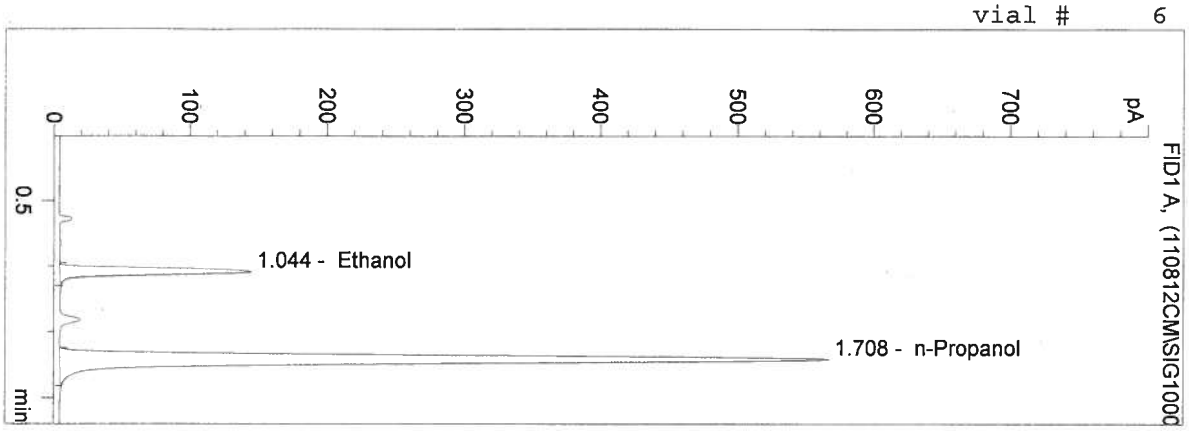
11037

WASHINGTON STATE TOXICOLOGY LABORATORY

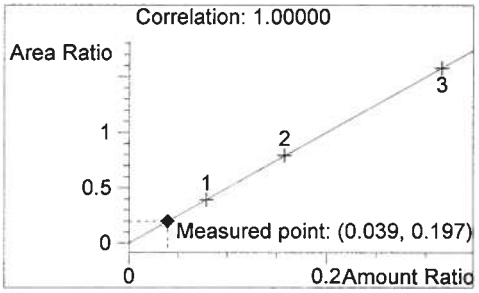
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:06:48 AM
Instrument 1
DB-ALC1

0.04 CTRL - CM
Christie Mitchell

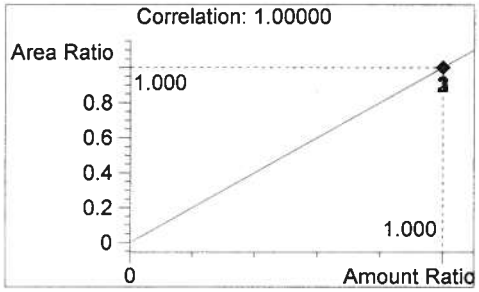
vial # 6



#	Compound	Area	RT
1	Ethanol	452	1.044
2	n-Propanol	2300	1.708
Tot			



Ethanol 0.039 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035 CM

11036

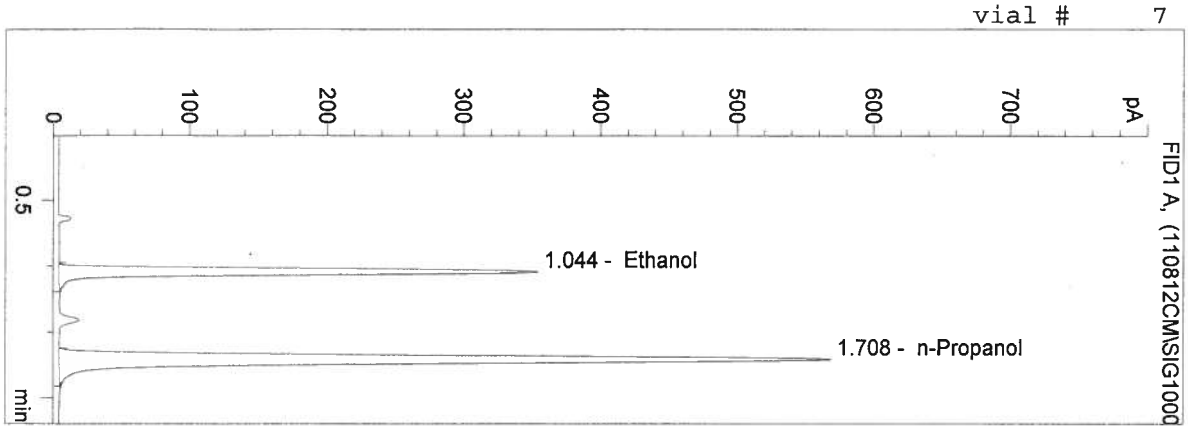
11037

WASHINGTON STATE TOXICOLOGY LABORATORY

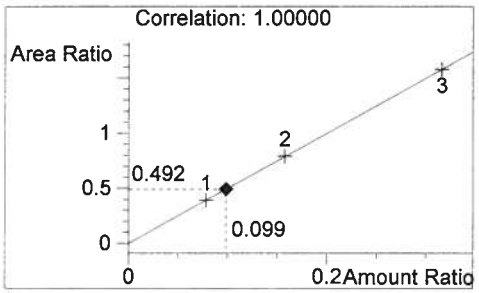
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:09:53 AM
Instrument 1
DB-ALC1

0.10 CTRL - CM
Christie Mitchell

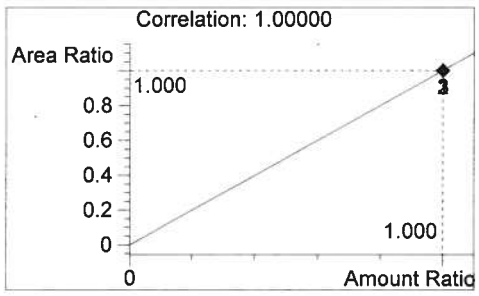
vial # 7



#	Compound	Area	RT
1	Ethanol	1136	1.044
2	n-Propanol	2309	1.708
Tot			



Ethanol 0.099 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035 CM

11036

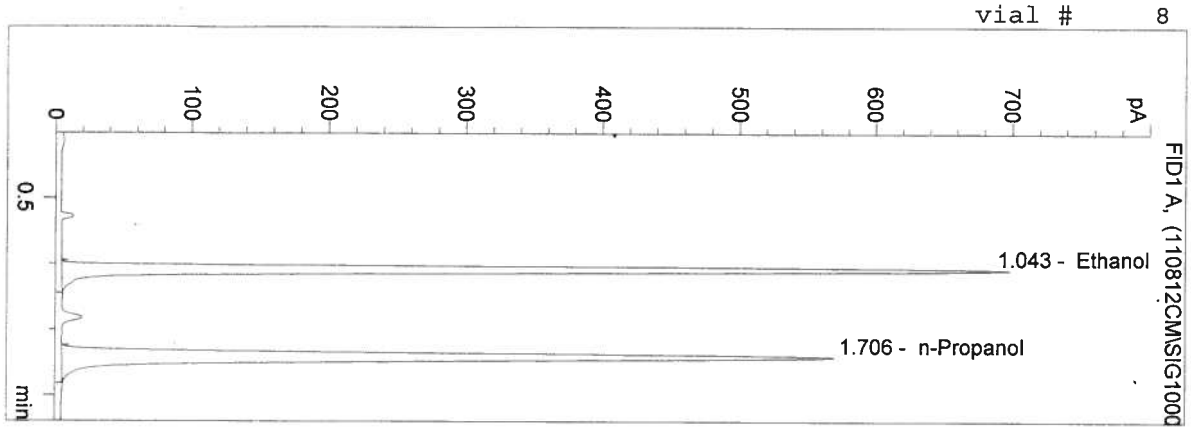
11037

WASHINGTON STATE TOXICOLOGY LABORATORY

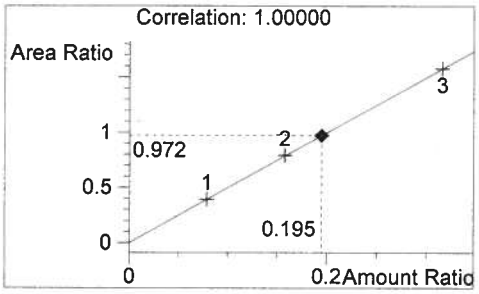
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:12:58 AM
Instrument 1
DB-ALC1

0.20 CTRL -CM
Christie Mitchell

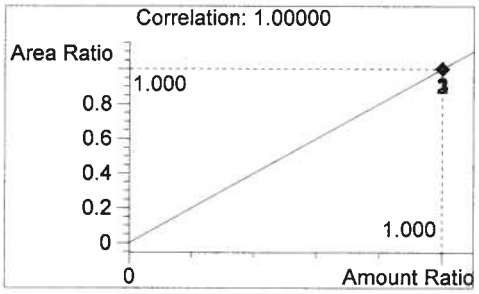
vial # 8



#	Compound	Area	RT
1	Ethanol	2236	1.043
2	n-Propanol	2301	1.706
Tot			



Ethanol 0.195 g/100 mL



n-Propanol 1.000 g/100 mL

11034

11035 CM

11036

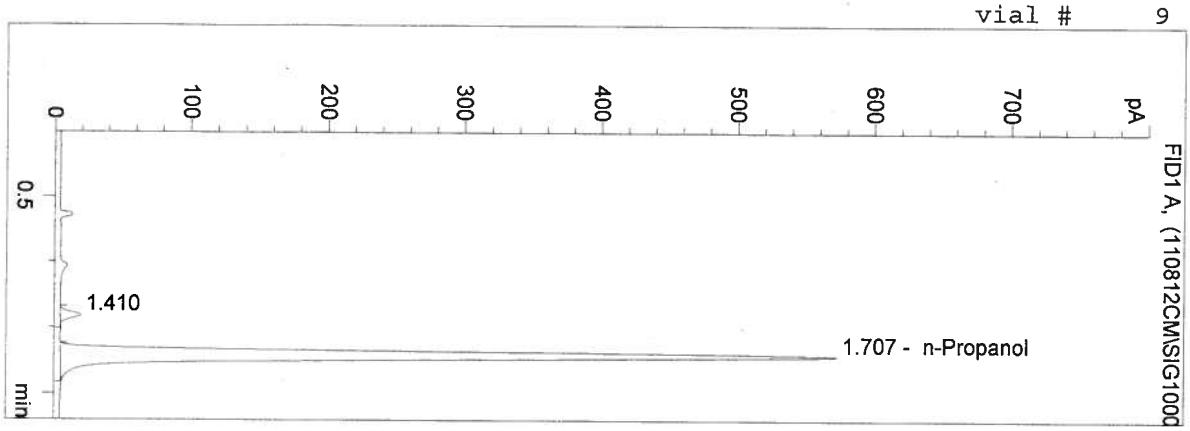
11037

WASHINGTON STATE TOXICOLOGY LABORATORY

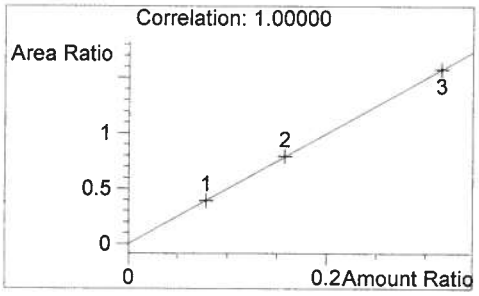
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:16:03 AM
Instrument 1
DB-ALC1

NEG CTRL - CM
Christie Mitchell

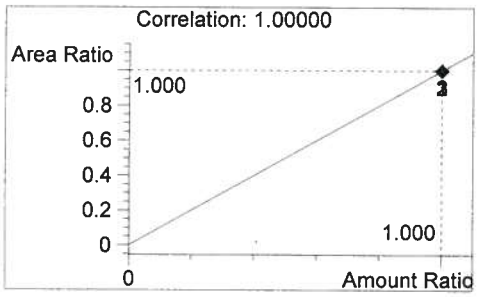
vial # 9



#	Compound	Area	RT
1	Ethanol	0	0.000
2		50	1.410
3	n-Propanol	2319	1.707
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

INTEGRATED PEAK AT 1.410 MINUTES IS COMPLETELY RESOLVED FROM ETHANOL AND N-PROPANOL. APPROVED DEVIATION FROM SOP ACCEPTANCE PARAMETERS.
Q.A. MANAGER SHS
8/29/11

11034

11035 CM

11036

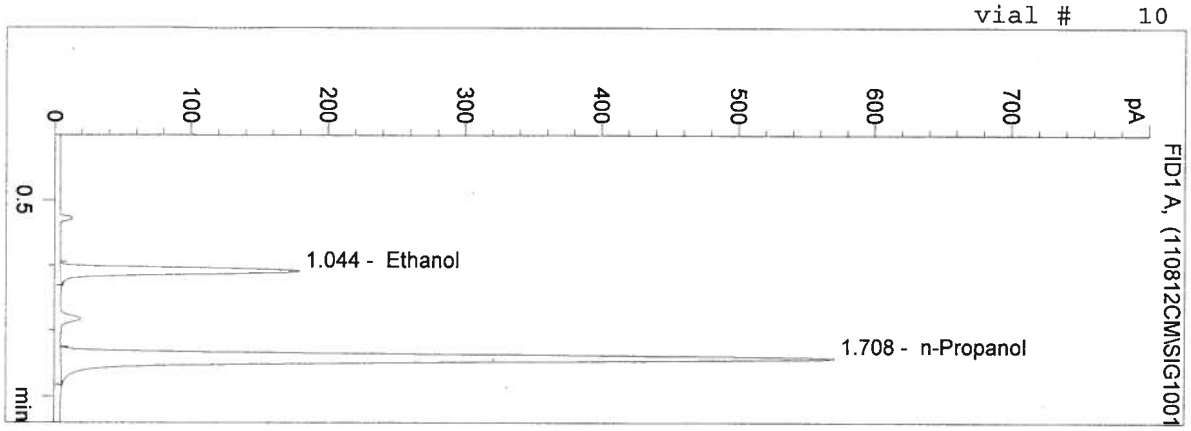
11037

WASHINGTON STATE TOXICOLOGY LABORATORY

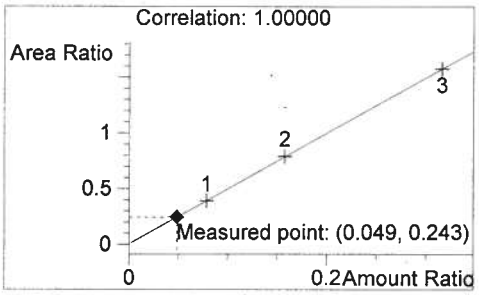
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:19:07 AM
Instrument 1
DB-ALC1

11034 #1
Christie Mitchell

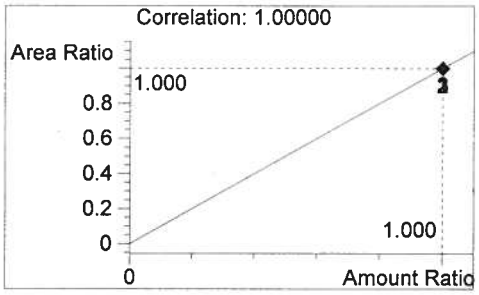
vial # 10



#	Compound	Area	RT
1	Ethanol	564	1.044
2	n-Propanol	2318	1.708
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

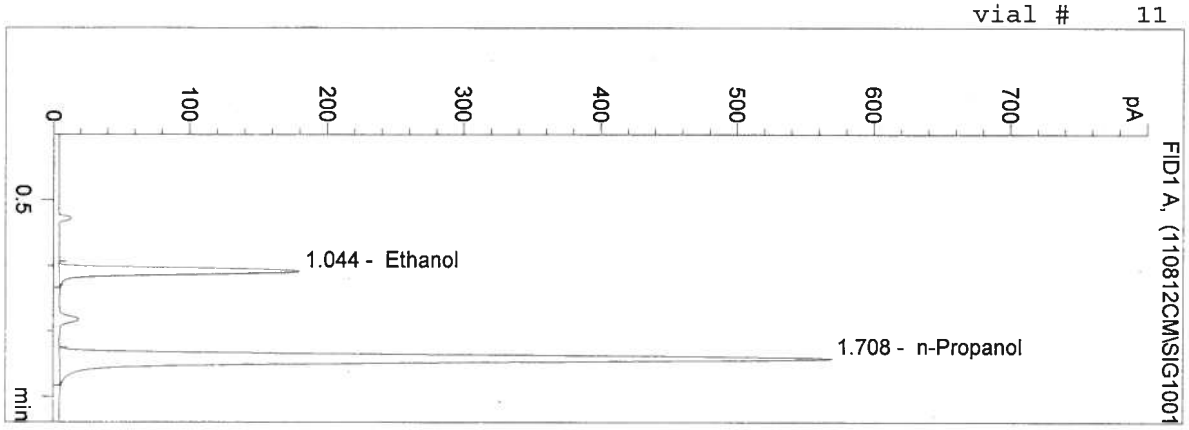
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

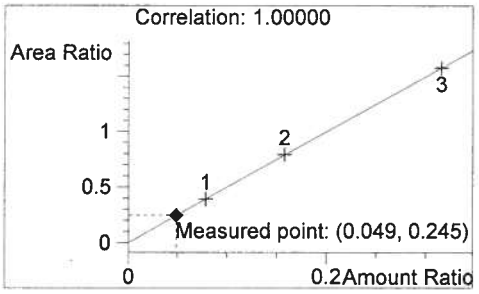
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:22:12 AM
Instrument 1
DB-ALC1

11034 #2
Christie Mitchell

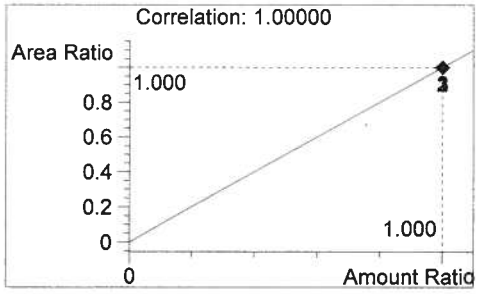
vial # 11



#	Compound	Area	RT
1	Ethanol	569	1.044
2	n-Propanol	2317	1.708
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

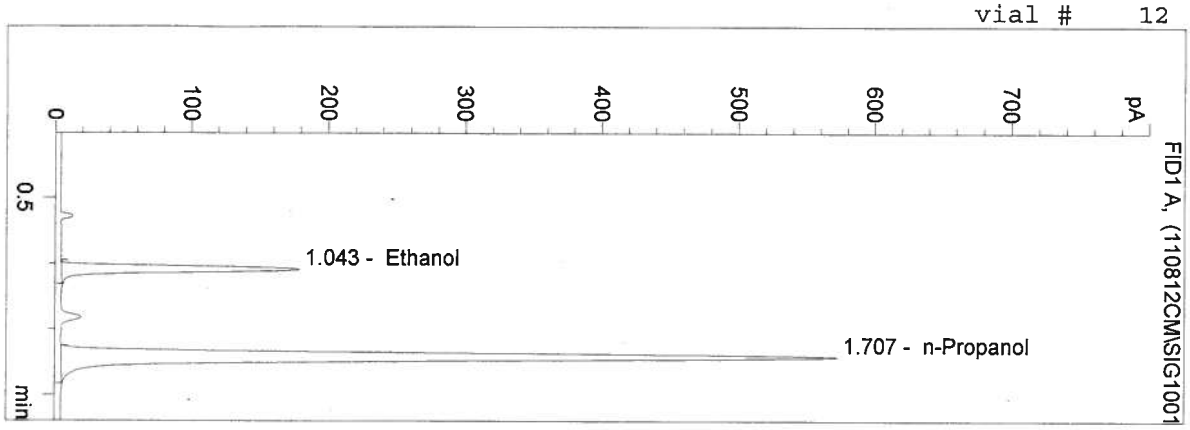
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

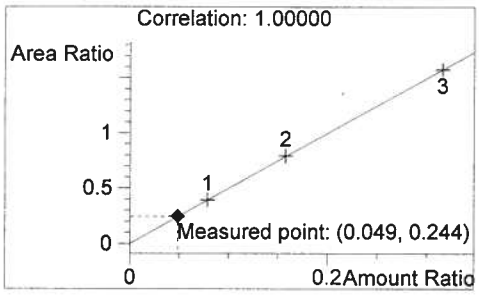
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:25:17 AM
Instrument 1
DB-ALC1

11034 #3
Christie Mitchell

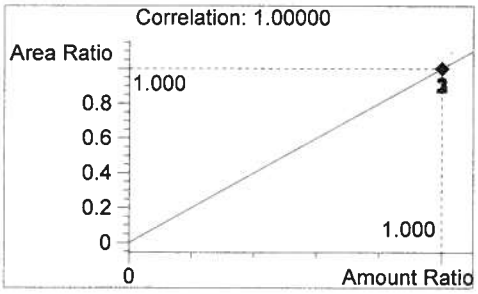
vial # 12



#	Compound	Area	RT
1	Ethanol	564	1.043
2	n-Propanol	2317	1.707
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

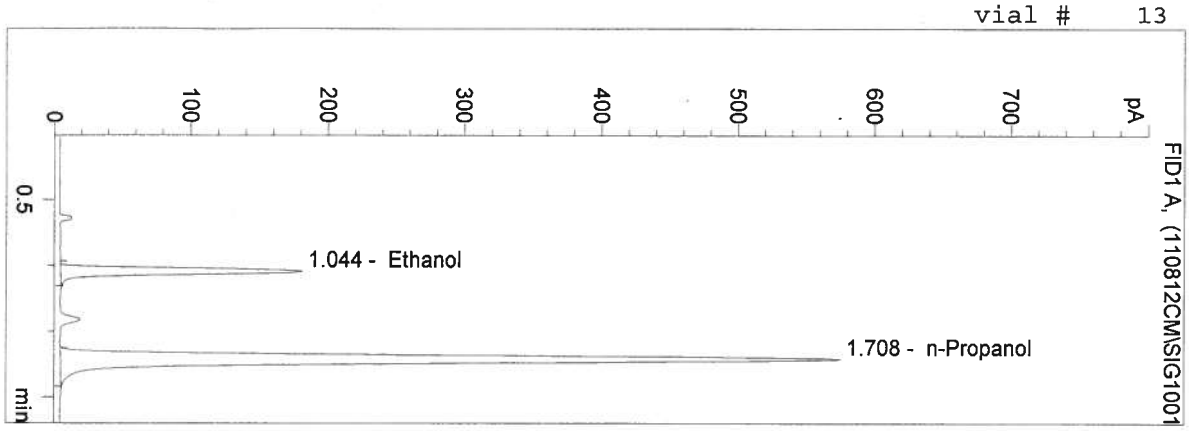
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

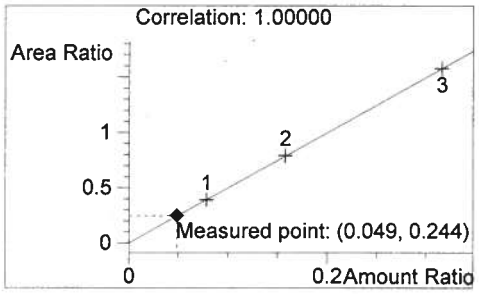
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:28:22 AM
Instrument 1
DB-ALC1

11034 #4
Christie Mitchell

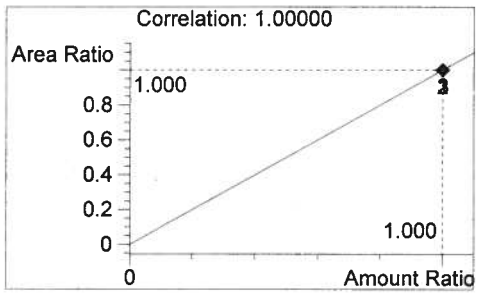
vial # 13



#	Compound	Area	RT
1	Ethanol	569	1.044
2	n-Propanol	2330	1.708
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

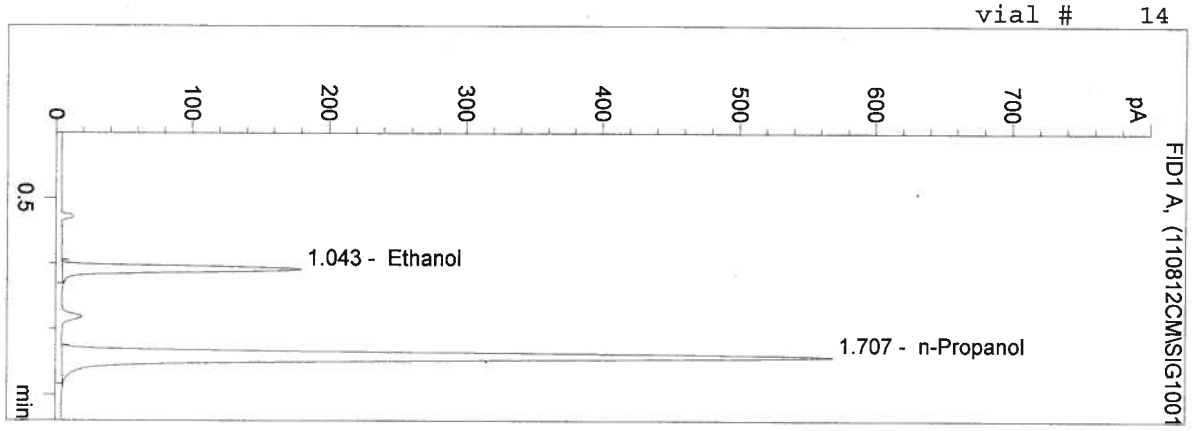
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

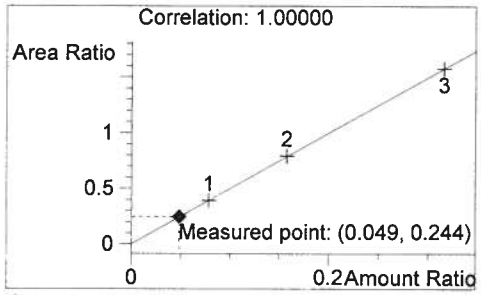
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:31:27 AM
Instrument 1
DB-ALC1

11034 #5
Christie Mitchell

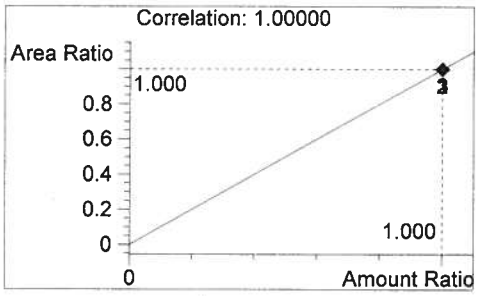
vial # 14



#	Compound	Area	RT
1	Ethanol	563	1.043
2	n-Propanol	2308	1.707
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

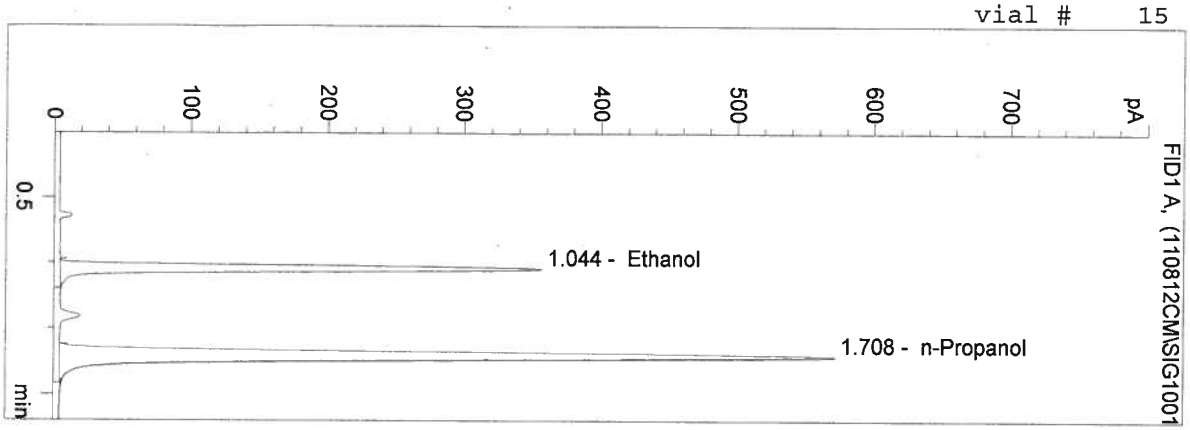
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

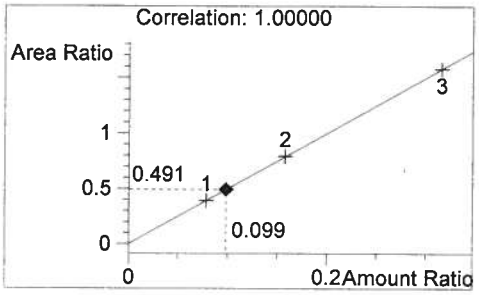
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:34:31 AM
Instrument 1
DB-ALC1

0.10 CTRL - CM
Christie Mitchell

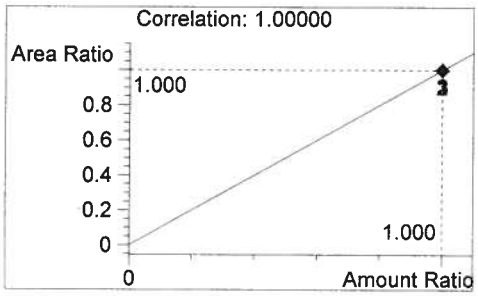
vial # 15



#	Compound	Area	RT
1	Ethanol	1139	1.044
2	n-Propanol	2320	1.708
Tot			



Ethanol 0.099 g/100 mL



n-Propanol 1.000 g/100 mL

11034

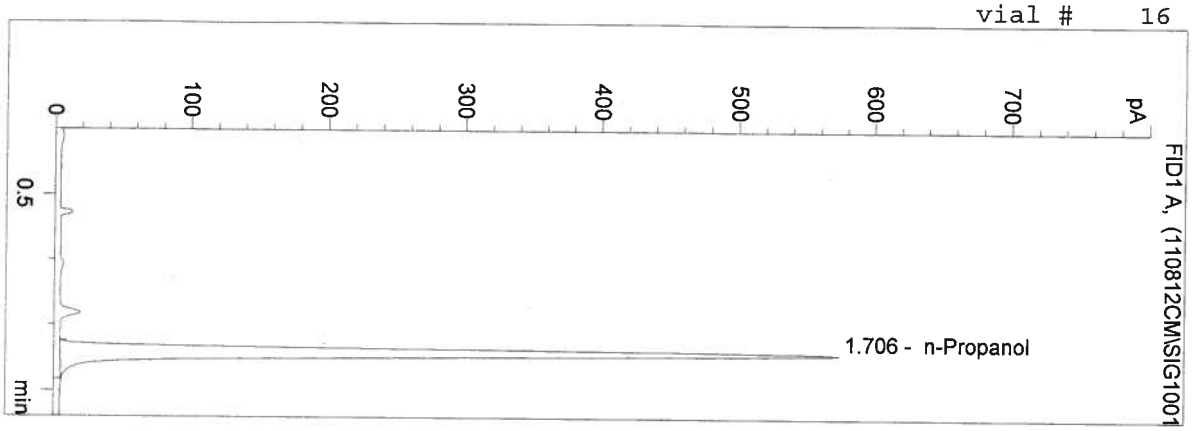
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

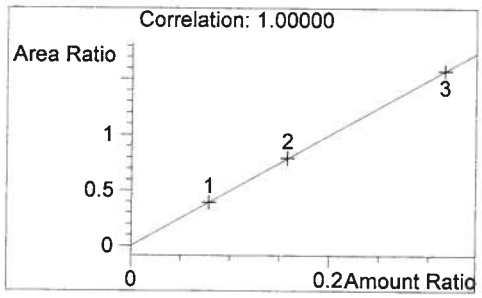
C:\HPCHEM\1\METHODS\SIMALC1.M
8/12/2011 10:37:36 AM
Instrument 1
DB-ALC1

NEG CTRL - CM
Christie Mitchell

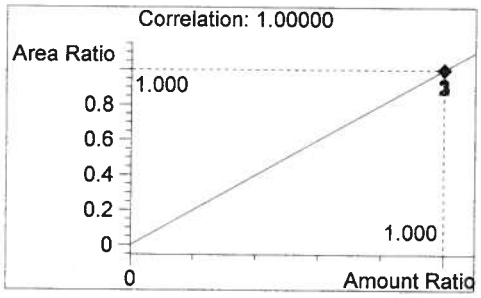
vial # 16



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2322	1.706
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

1103

CM

Sequence Parameters:

Operator:	Brianna Peterson
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	SIG1
Counter:	0001
Signal 2 Prefix:	SIG2
Counter:	0001
Data Directory:	C:\HPCHEM\1\DATA\
Data Subdirectory:	110819BP
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
0.04 control Lot#A075264 - exp 10/2014
0.10 control Lot#A075806 - exp 11/2014
0.20 control Lot#A076521 - exp 12/2014

Sequence Table (Front Injector):

Method and Injection Info Part:

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
1	Vial 1	BLANK	SIMALC1	1	Sample		
2	Vial 2	0.079 CAL 1	SIMALC1	1	Calib		
3	Vial 3	0.158 CAL 2	SIMALC1	1	Calib		
4	Vial 4	0.316 CAL 3	SIMALC1	1	Calib		
5	Vial 5	NEG CTRL BP	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL BP	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL BP	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL BP	SIMALC1	1	Ctrl Samp		
10	Vial 10	QA11034-1	SIMALC1	1	Sample		
11	Vial 11	QA11034-2	SIMALC1	1	Sample		
12	Vial 12	QA11034-3	SIMALC1	1	Sample		
13	Vial 13	QA11034-4	SIMALC1	1	Sample		
14	Vial 14	QA11034-5	SIMALC1	1	Sample		11034
15	Vial 15	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL BP	SIMALC1	1	Ctrl Samp		
17	Vial 17	QA11035-1	SIMALC1	1	Sample		
18	Vial 18	QA11035-2	SIMALC1	1	Sample		11035
19	Vial 19	QA11035-3	SIMALC1	1	Sample		
20	Vial 20	QA11035-4	SIMALC1	1	Sample		
21	Vial 21	QA11035-5	SIMALC1	1	Sample		11036
22	Vial 22	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL BP	SIMALC1	1	Ctrl Samp		11037
24	Vial 24	QA11036-1	SIMALC1	1	Sample		
25	Vial 25	QA11036-2	SIMALC1	1	Sample		
26	Vial 26	QA11036-3	SIMALC1	1	Sample		
27	Vial 27	QA11036-4	SIMALC1	1	Sample		
28	Vial 28	QA11036-5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL BP	SIMALC1	1	Ctrl Samp		
31	Vial 31	QA11037-1	SIMALC1	1	Sample		
32	Vial 32	QA11037-2	SIMALC1	1	Sample		

BP

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
33	Vial 33	QA11037-3	SIMALC1	1	Sample		
34	Vial 34	QA11037-4	SIMALC1	1	Sample		
35	Vial 35	QA11037-5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL BP	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL BP	SIMALC1	1	Ctrl Samp		

Calibration Part:

Line	Location	SampleName	Method	CalLev	Update RF	Update RT	Interval
2	Vial 2	0.079 CAL 1	SIMALC1	1	Replace	Replace	
3	Vial 3	0.158 CAL 2	SIMALC1	2	Replace	Replace	
4	Vial 4	0.316 CAL 3	SIMALC1	3	Replace	Replace	

Sequence Table (Back Injector):

No entries - empty table!

11034 JHS ~~11-29-~~ JHS 8/29/11

11035

11036

11037

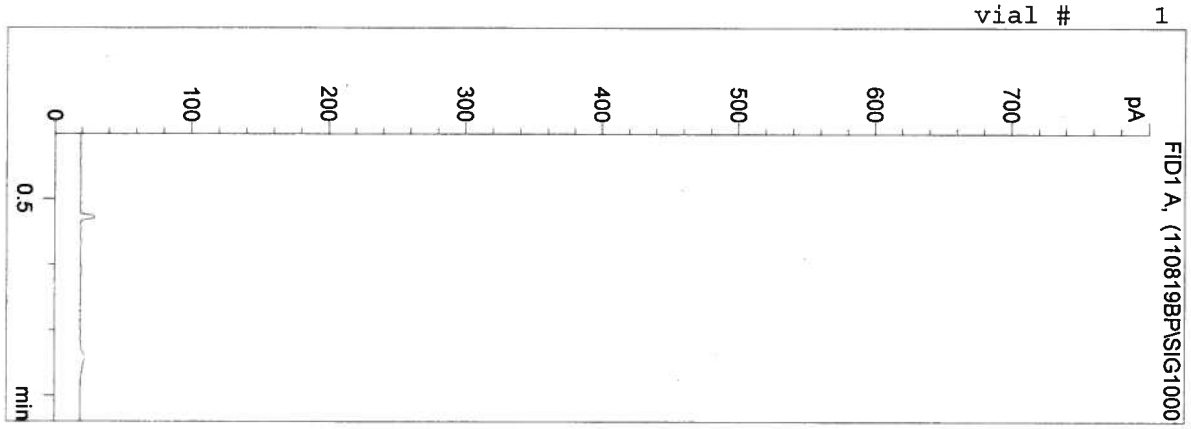
BL

WASHINGTON STATE TOXICOLOGY LABORATORY

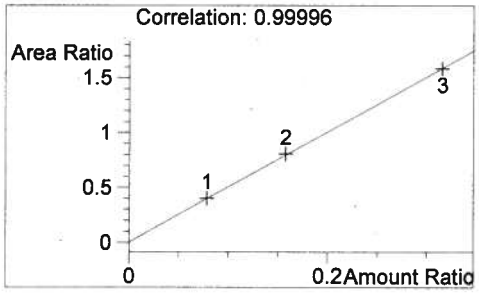
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:01:28 PM
Instrument 1
DB-ALC1

BLANK
Brianna Peterson

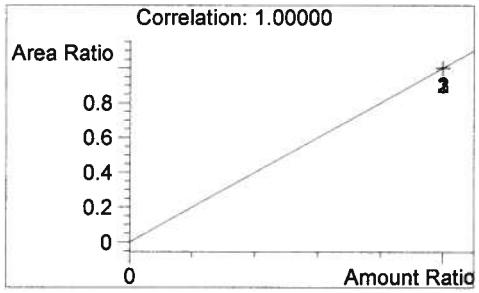
vial # 1



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



Ethanol 0.000 g/100 mL



n-Propanol 0.000 g/100 mL

11034

11035

11036

11037

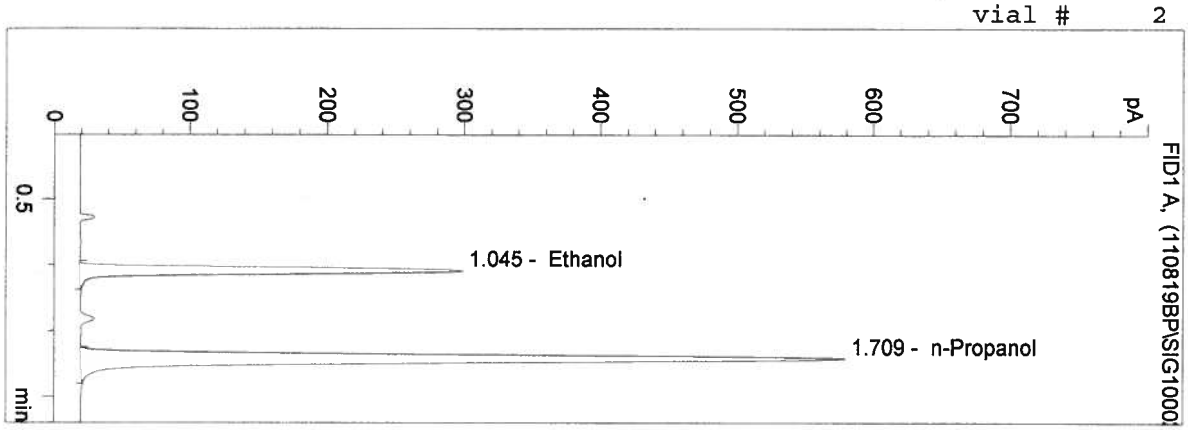
BL

WASHINGTON STATE TOXICOLOGY LABORATORY

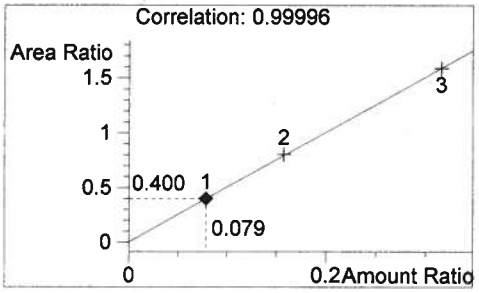
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:04:32 PM
Instrument 1
DB-ALC1

0.079 CAL 1
Brianna Peterson

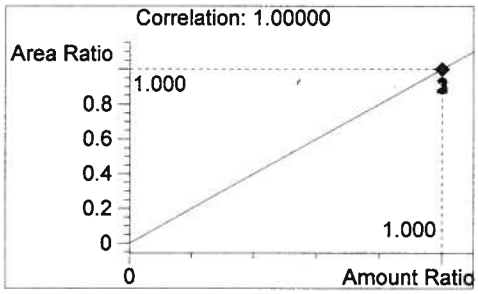
vial # 2



#	Compound	Area	RT
1	Ethanol	909	1.045
2	n-Propanol	2272	1.709
Tot			



Ethanol 0.079 g/100 mL



n-Propanol 1.000 g/100 mL

11034

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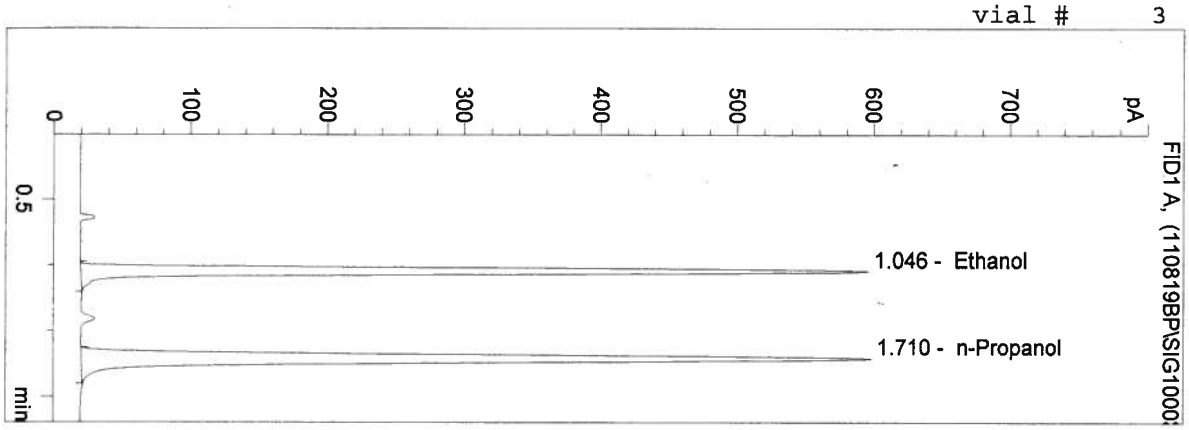
11037 BP

WASHINGTON STATE TOXICOLOGY LABORATORY

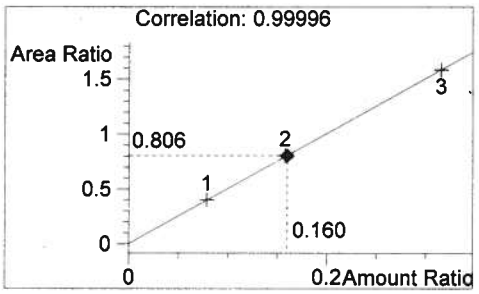
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:07:37 PM
Instrument 1
DB-ALC1

0.158 CAL 2
Brianna Peterson

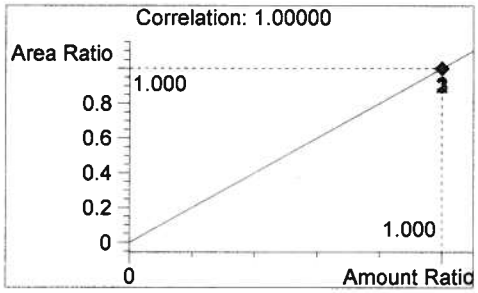
vial # 3



#	Compound	Area	RT
1	Ethanol	1895	1.046
2	n-Propanol	2352	1.710
Tot			



Ethanol 0.160 g/100 mL



n-Propanol 1.000 g/100 mL

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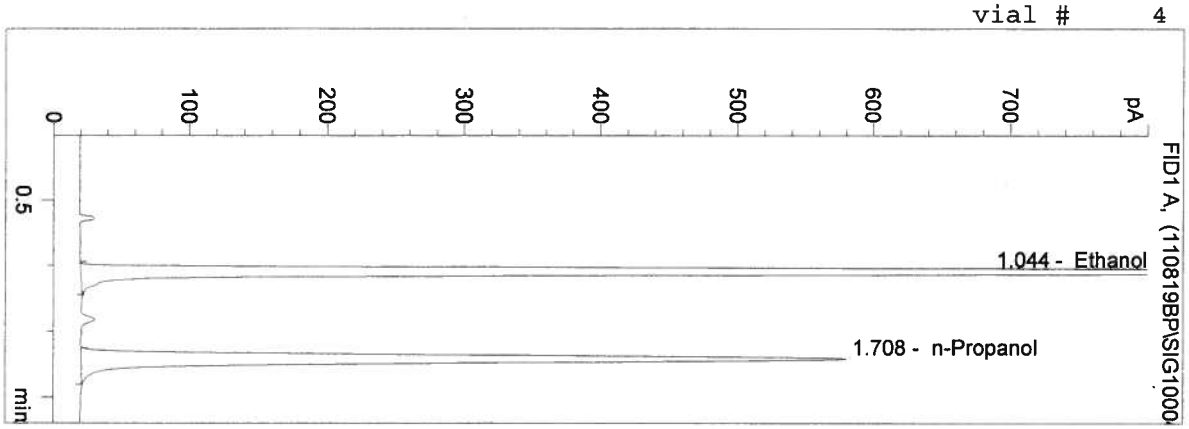
BP

WASHINGTON STATE TOXICOLOGY LABORATORY

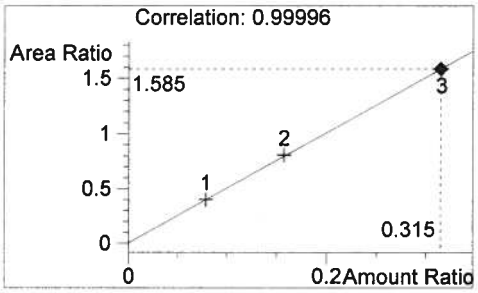
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:10:42 PM
Instrument 1
DB-ALC1

0.316 CAL 3
Brianna Peterson

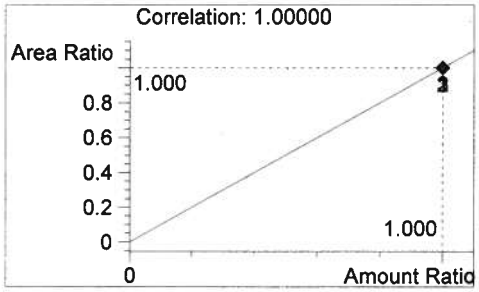
vial # 4



#	Compound	Area	RT
1	Ethanol	3605	1.044
2	n-Propanol	2275	1.708
Tot			



Ethanol 0.315 g/100 mL



n-Propanol 1.000 g/100 mL

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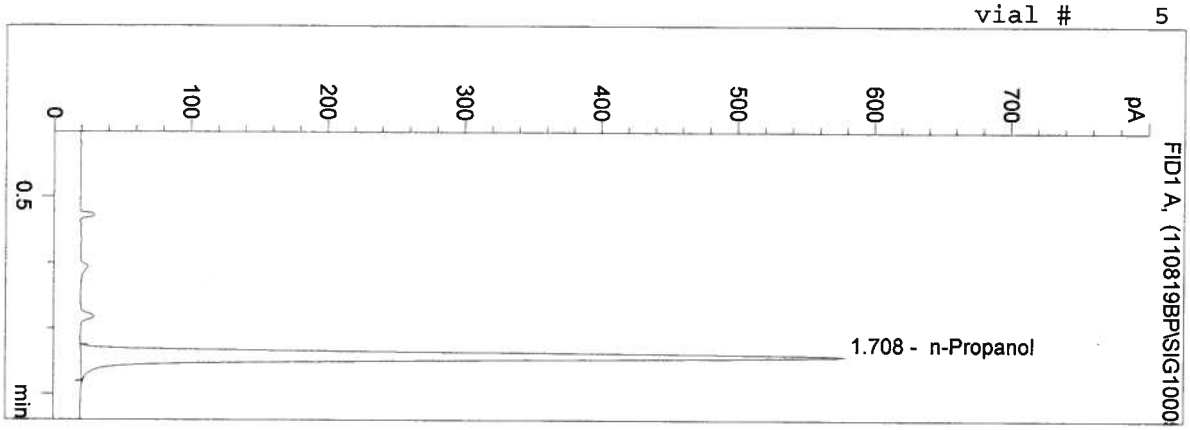
WASHINGTON STATE TOXICOLOGY LABORATORY

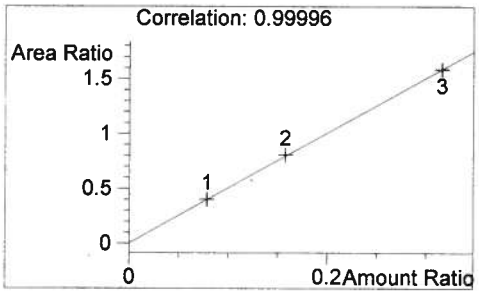
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:13:46 PM
Instrument 1
DB-ALC1

NEG CTRL BP
Brianna Peterson

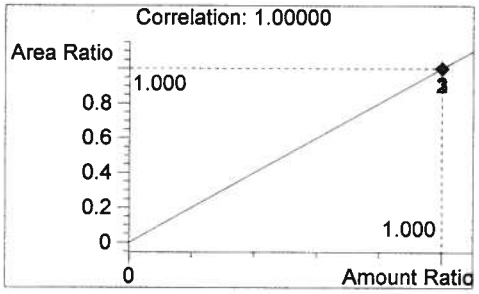
vial # 5



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2271	1.708
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

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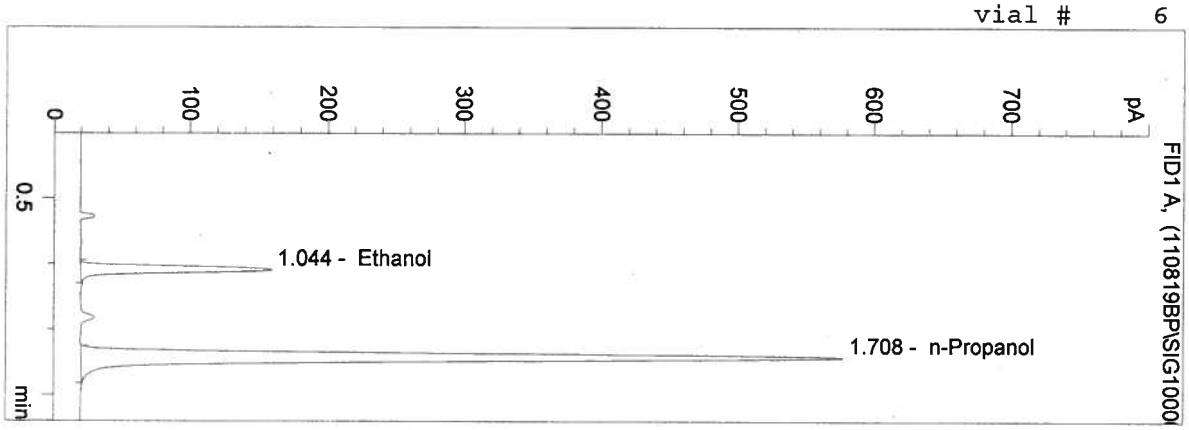
BP

WASHINGTON STATE TOXICOLOGY LABORATORY

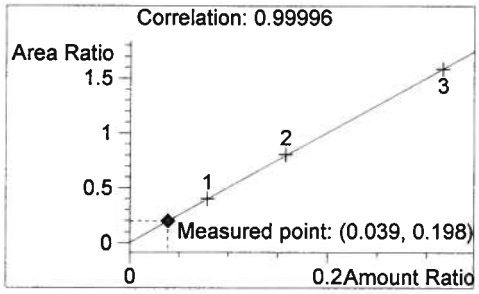
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:16:51 PM
Instrument 1
DB-ALC1

0.04 CTRL BP
Brianna Peterson

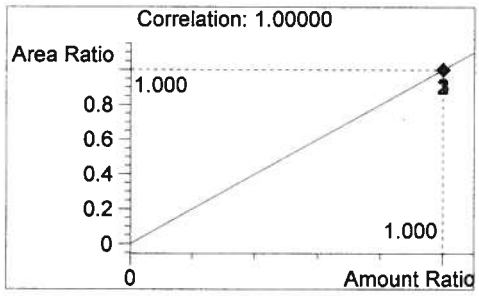
vial # 6



#	Compound	Area	RT
1	Ethanol	449	1.044
2	n-Propanol	2263	1.708
Tot			



Ethanol 0.039 g/100 mL



n-Propanol 1.000 g/100 mL

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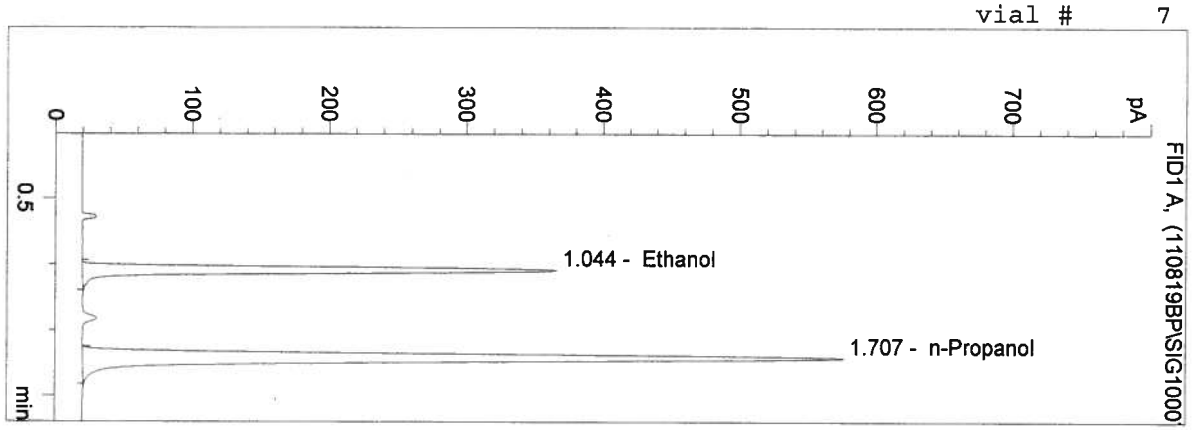
11036
11037 BP

WASHINGTON STATE TOXICOLOGY LABORATORY

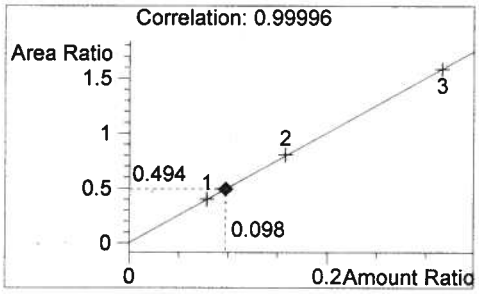
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:19:56 PM
Instrument 1
DB-ALC1

0.10 CTRL BP
Brianna Peterson

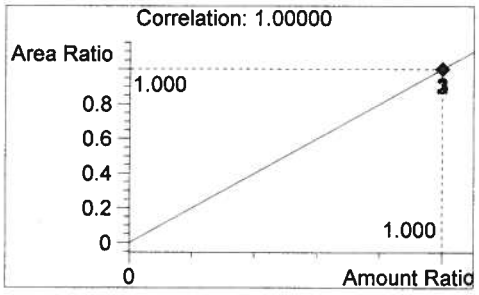
vial # 7



#	Compound	Area	RT
1	Ethanol	1118	1.044
2	n-Propanol	2264	1.707
Tot			



Ethanol 0.098 g/100 mL



n-Propanol 1.000 g/100 mL

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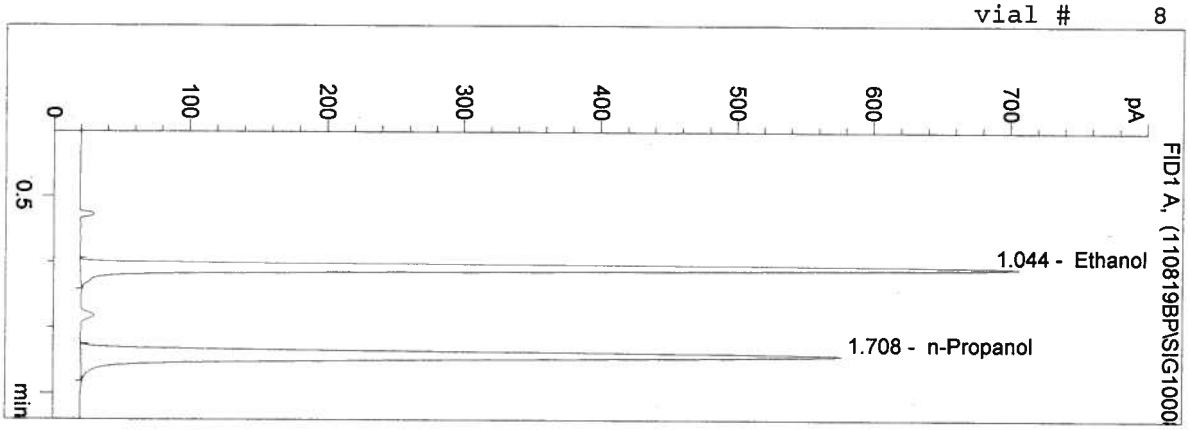
WASHINGTON STATE TOXICOLOGY LABORATORY

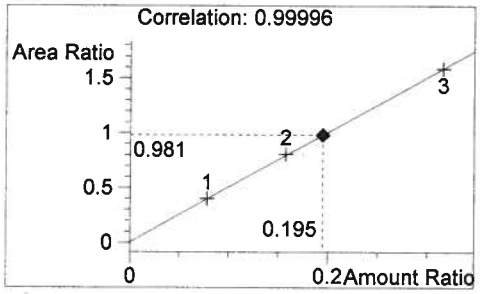
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:23:01 PM
Instrument 1
DB-ALC1

0.20 CTRL BP
Brianna Peterson

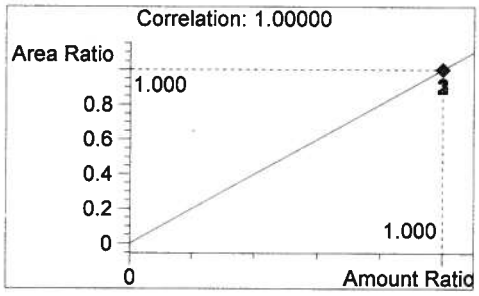
vial # 8



#	Compound	Area	RT
1	Ethanol	2220	1.044
2	n-Propanol	2262	1.708
Tot			



Ethanol 0.195 g/100 mL



n-Propanol 1.000 g/100 mL

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BP

WASHINGTON STATE TOXICOLOGY LABORATORY

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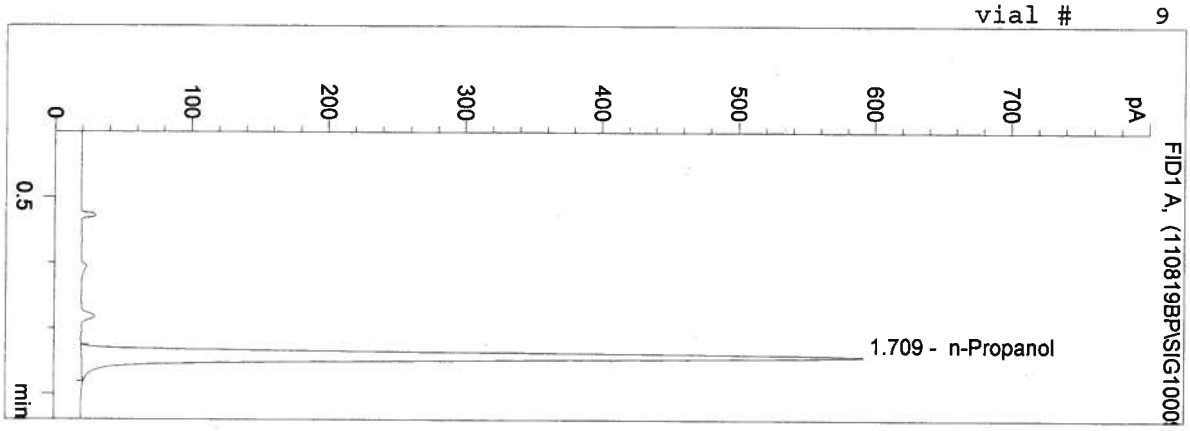
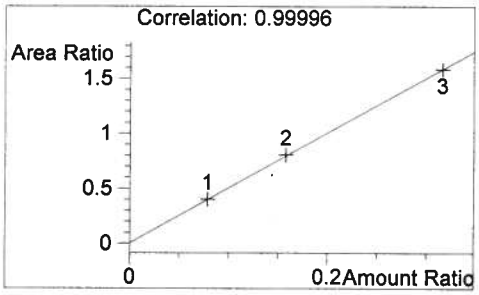
8/19/2011 5:26:05 PM
Instrument 1
DB-ALC1

NEG CTRL BP
Brianna Peterson

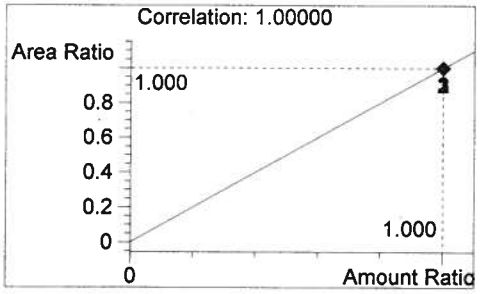
vial # 9



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2331	1.709
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

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11036 SHS 8/29/11

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WASHINGTON STATE TOXICOLOGY LABORATORY

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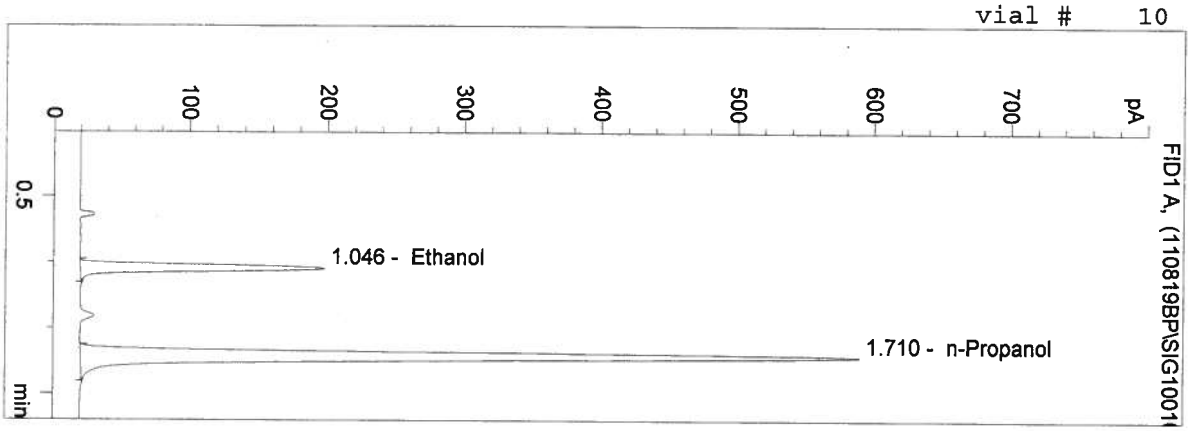
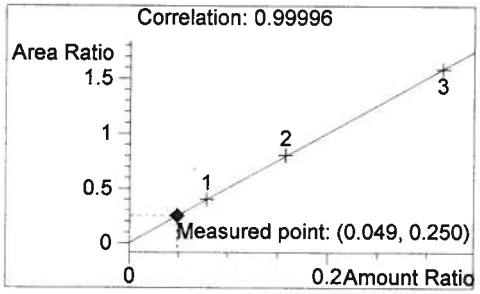
8/19/2011 5:29:10 PM
Instrument 1
DB-ALC1

QA11034-1
Brianna Peterson

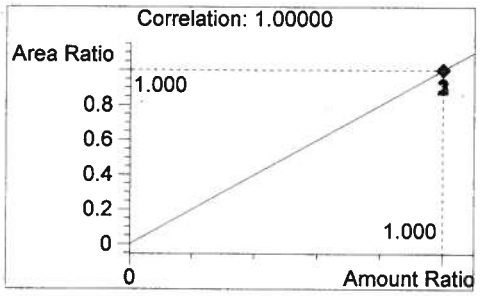
vial # 10



#	Compound	Area	RT
1	Ethanol	580	1.046
2	n-Propanol	2323	1.710
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

BP

WASHINGTON STATE TOXICOLOGY LABORATORY

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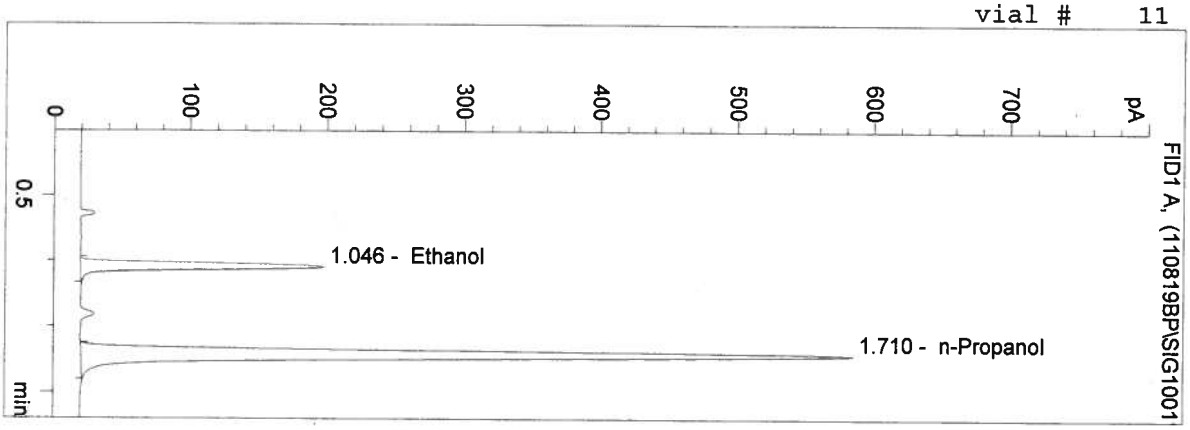
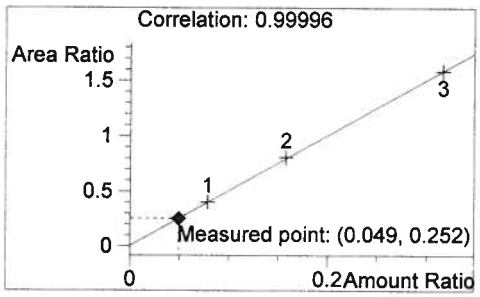
Instrument 1
DB-ALC1

QA11034-2
Brianna Peterson

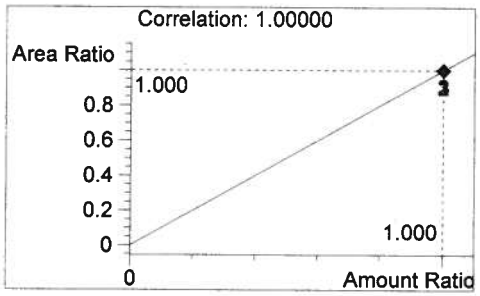
vial # 11



#	Compound	Area	RT
1	Ethanol	581	1.046
2	n-Propanol	2302	1.710
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

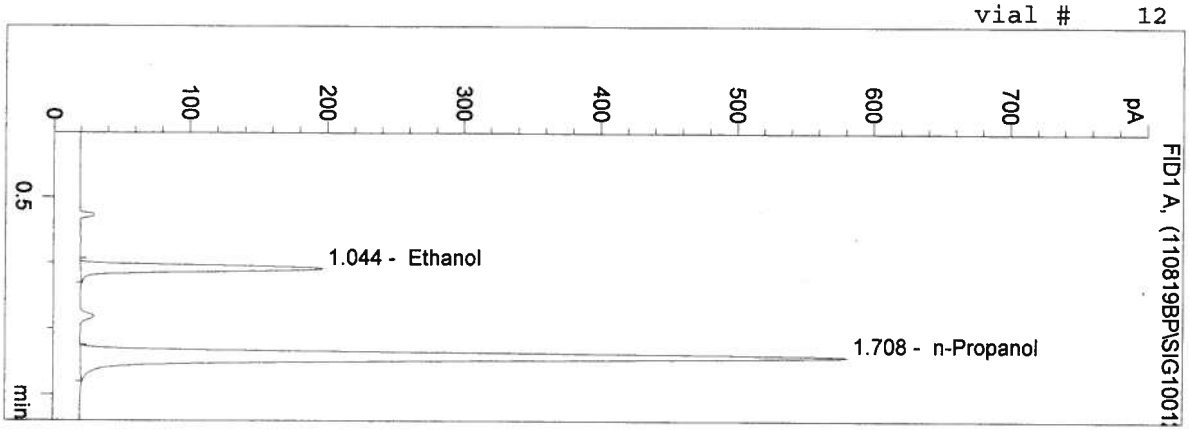
BP

WASHINGTON STATE TOXICOLOGY LABORATORY

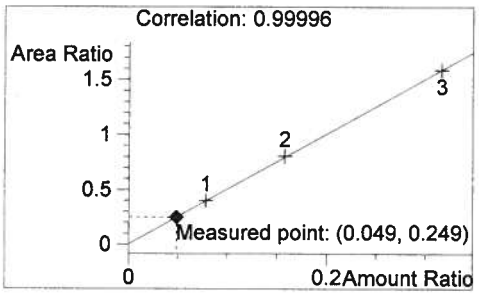
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:35:20 PM
Instrument 1
DB-ALC1

QA11034-3
Brianna Peterson

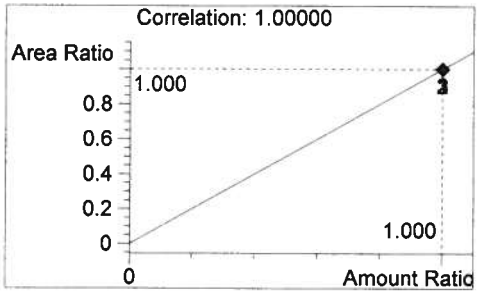
vial # 12



#	Compound	Area	RT
1	Ethanol	569	1.044
2	n-Propanol	2281	1.708
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

BP

WASHINGTON STATE TOXICOLOGY LABORATORY

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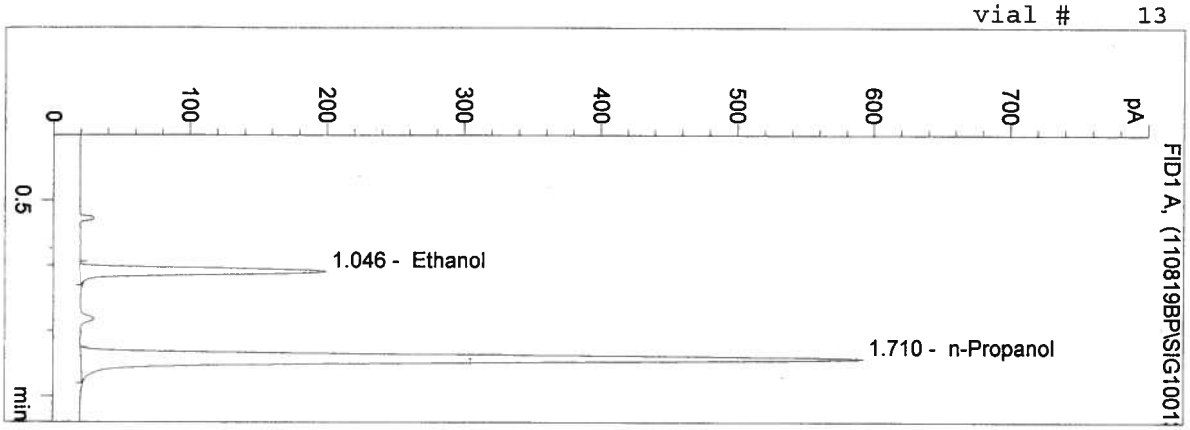
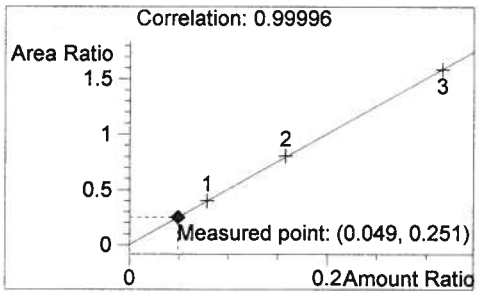
Instrument 1
DB-ALC1

QA11034-4
Brianna Peterson

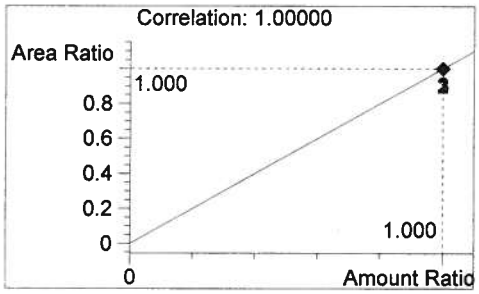
vial # 13



#	Compound	Area	RT
1	Ethanol	584	1.046
2	n-Propanol	2327	1.710
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

RL

WASHINGTON STATE TOXICOLOGY LABORATORY

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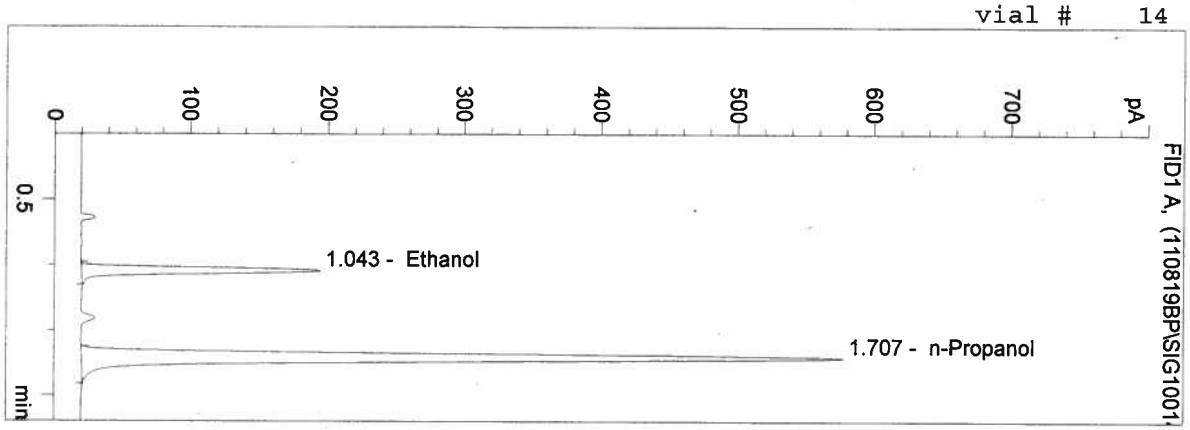
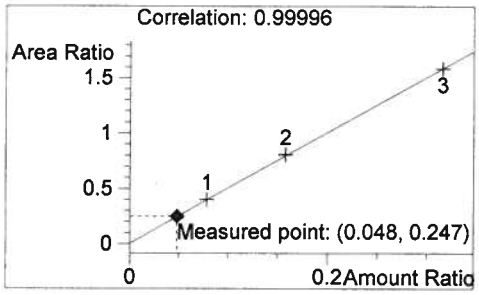
8/19/2011 5:41:29 PM
Instrument 1
DB-ALC1

QA11034-5
Brianna Peterson

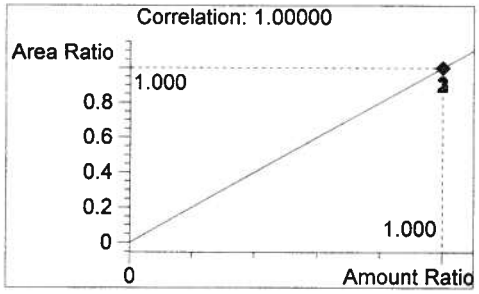
vial # 14



#	Compound	Area	RT
1	Ethanol	559	1.043
2	n-Propanol	2265	1.707
Tot			



Ethanol 0.048 g/100 mL



n-Propanol 1.000 g/100 mL

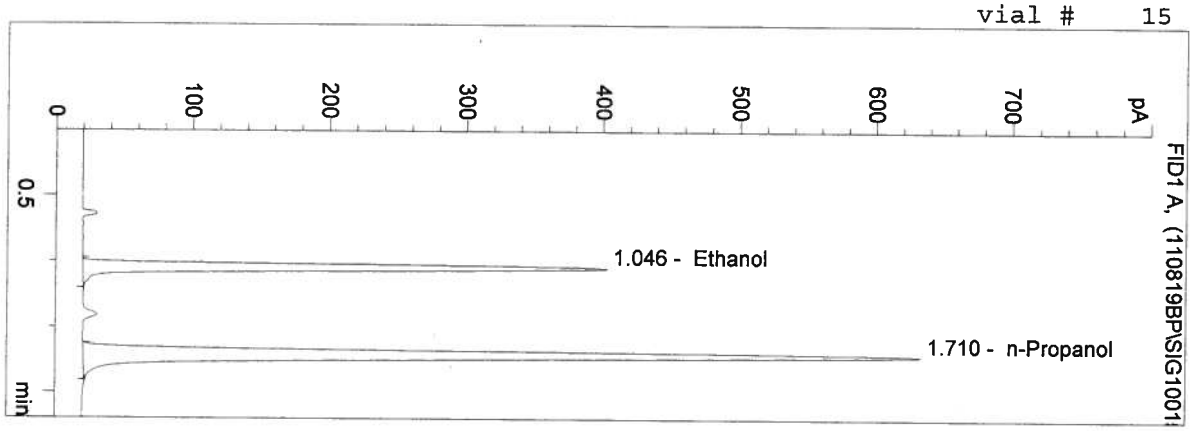
BB

WASHINGTON STATE TOXICOLOGY LABORATORY

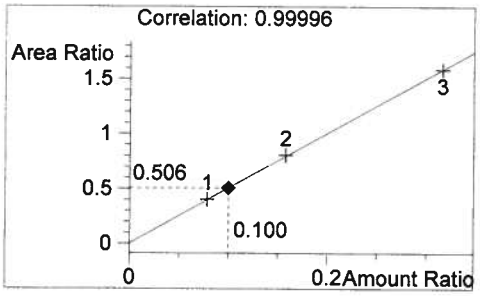
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:44:34 PM
Instrument 1
DB-ALC1

0.10 CTRL BP
Brianna Peterson

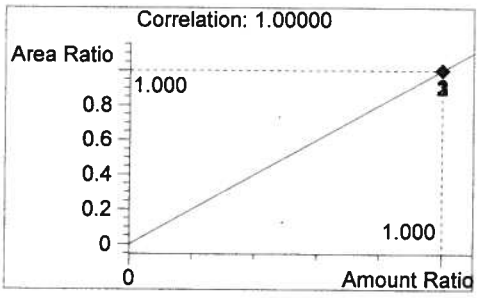
vial # 15



#	Compound	Area	RT
1	Ethanol	1264	1.046
2	n-Propanol	2499	1.710
Tot			



Ethanol 0.100 g/100 mL



n-Propanol 1.000 g/100 mL

11034

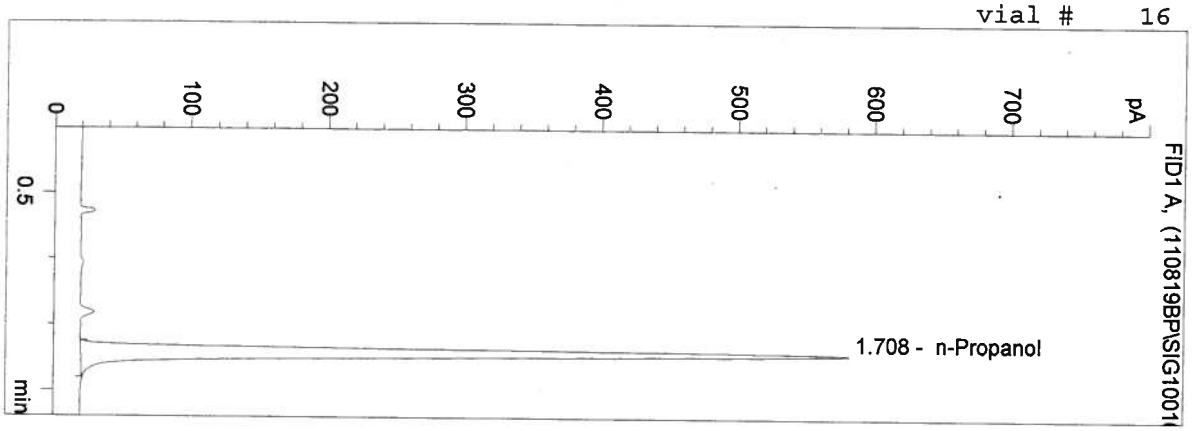
BP

WASHINGTON STATE TOXICOLOGY LABORATORY

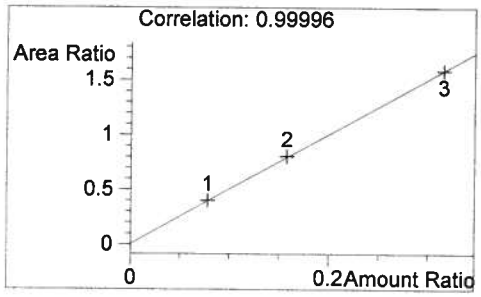
C:\HPCHEM\1\METHODS\SIMALC1.M
8/19/2011 5:47:39 PM
Instrument 1
DB-ALC1

NEG CTRL BP
Brianna Peterson

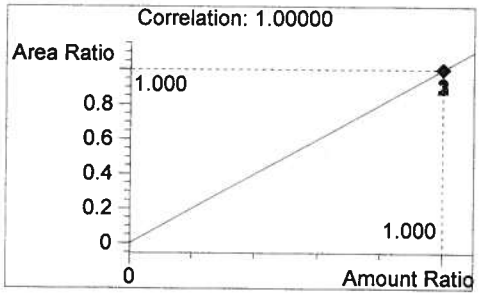
vial # 16



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2291	1.708
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11034

BP

WSP-TLD **COMBINED SIMULATOR SOLUTION PREPARATION WORKSHEET**

FILE A COPY IN THE BATCH FILE FOR EACH SOLUTION LISTED ON THE WORKSHEET

Preparation Date: 8/10/11 Initials of Preparer: fn

Expiration Date: 8/10/12

Lot # of 200-proof Ethanol used in preparation: ZW0039

Date the 200-proof Ethanol bottle was opened: 6/30/11

After opening, each bottle of 200-proof Ethanol is approved for use for 6 months unless an extension is approved by the State Toxicologist. This timeframe applies to the 200-proof Ethanol only, not to simulator solutions which have a 1 year expiration.

Simulator Solution	Volume of Ethanol (mL)	Volume of Deionized Water (L)		Batch Number
QAP 0.04	11.2	18	☑	11034
QAP 0.08	22.4	18	☑	11035
QAP 0.10	28.1	18	☑	11036
QAP 0.15	42.0	18	☑	11037
ESS	66.5	52	☐	

Stir bar is rotating ☑

Stirred for minimum 30 minutes; 2 hours for ESS ☑

Spigot purged ☑

Aliquot taken ☑

Batch labeled, packaged and sealed ☑ 8/10/11 Date

If different ethanol lot numbers are used in the preparation of solutions, record them and the corresponding solution batch numbers in the comments section.

Comments:

Lisa Noble
Analyst Signature

8/10/11
Date