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

AN ASCLD/LAB-International ACCREDITED LABORATORY
SINCE 11/16/2009

QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

BATCH REPORT: 11021

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: 05/17/2011
BATCH UNITS: g/100mL

IDENTITY: QAP Solution
PREPARED BY: Naziha Nuwayhid

	NN	CM	JLK
1	0.050	0.049	0.050
2	0.049	0.049	0.049
3	0.049	0.049	0.050
4	0.049	0.049	0.049
5	0.049	0.049	0.049
C	0.101	0.100	0.100

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

RESULTS OF TESTING
AVERAGE SOLUTION CONCENTRATION: 0.0492 g/100mL
STANDARD DEVIATION: 0.00041
PRECISION CV (%): 0.84
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0400 g/210L**
COMBINED STANDARD UNCERTAINTY: ± 0.0004 (k=1, 68% confidence interval)

WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION

Melissa L. Pemberton PS-5 — Melissa L. Pemberton, Forensic Scientist Supervisor

6-3-2011 — DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

ANALYST	NAME	SIGNATURE	DATE TESTED
NN	Naziha Nuwayhid		05/17/2011
CM	Christie Mitchell		05/18/2011
JLK	Justin L. Knoy		05/19/2011

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 #: 11021 **Date Prepared:** 5/17/2011

Analyst:	NN	CM	JLK
Date Tested:	5/17/2011	5/18/2011	5/19/2011
Instrument:	HS#1	HS#1	HS#1
1	0.050	0.049	0.050
2	0.049	0.049	0.049
3	0.049	0.049	0.050
4	0.049	0.049	0.049
5	0.049	0.049	0.049
C	0.101	0.100	0.100

CV^2_{COA}	$CV^2_{QAP\ Solution}$	$CV^2_{Control}$	$CV^2_{Part\ Coef}$
0.0000084100	0.0000047213	0.0000110374	0.0001016326

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

Average Solution Concentration: 0.0492 g/100mL
Standard Deviation: 0.00041 g/100mL
Precision CV (%): 0.84
Equivalent Vapor Concentration: 0.0400 g/210L
Combined Standard Uncertainty (±): 0.0004 g/210L

Calculations performed by: Melissa L. Pemberton [signature] 5-24-2011
Name Signature Date

Calculations verified by: Jason Skleros [signature] May 26, 2011 Method: Hand Calculator
Name Signature Date

Tech. review performed by: Melissa L. Pemberton [signature] 6-3-2011
Name Signature Date

Washington State Patrol Toxicology Laboratory Division

SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Jason Sklerov **Date:** 05/26/11

Location: WSP-FLSB; Seattle, WA **Solution Batch Number:** 11021

	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:** MAY 26, 2011

Reviewer Signature: N/A JVS 5/26/11 **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		
Brianne O'Reilly		
Brittany Ball		
Christie Mitchell	CM	5/24/11
Christopher Johnston		
Dawn Cox		
Justin Knoy	JK	5-24-11
Lisa Noble		
Melissa Pemberton		
Naziha Nuwayhid	NN	5.24.11
Rebecca Flaherty		
Sarah Swenson		

Batch # 11021

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 11021

I, Naziha Nuwayhid, do certify under penalty of perjury that:

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

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

The qap solution, Lot Number 11021, was prepared in the Washington State Toxicology Laboratory on 5/17/2011. 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 5/17/2012.

Seattle, WA

5.24.11

Naziha Nuwayhid 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 11021

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 11021, was prepared in the Washington State Toxicology Laboratory on 5/17/2011. 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 5/17/2012.

Seattle, WA

Christie Mitchell 5/24/2011

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 11021

I, Justin L. Knoy, 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 Biology, and MS degree in Forensic Science.

The qap solution, Lot Number 11021, was prepared in the Washington State Toxicology Laboratory on 5/17/2011. 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 5/17/2012.

Seattle, WA

5.24.11

Justin L. Knoy — Date

Forensic Toxicologist

Sequence Parameters:

Operator:	Naziha Nuwayhid, PhD
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:	110517NN
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 # A073849 - exp 07/2014
Chromatograms for vials 1 through 9 are kept with QAP 11021
NN 5/17/11

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 - NN	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL - NN	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL - NN	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL -NN	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL - NN	SIMALC1	1	Ctrl Samp		
10	Vial 10	11021 #1	SIMALC1	1	Sample		
11	Vial 11	11021 #2	SIMALC1	1	Sample		
12	Vial 12	11021 #3	SIMALC1	1	Sample		
13	Vial 13	11021 #4	SIMALC1	1	Sample		
14	Vial 14	11021 #5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL - NN	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL - NN	SIMALC1	1	Ctrl Samp		
17	Vial 17	11022 #1	SIMALC1	1	Sample		
18	Vial 18	11022 #2	SIMALC1	1	Sample		
19	Vial 19	11022 #3	SIMALC1	1	Sample		
20	Vial 20	11022 #4	SIMALC1	1	Sample		
21	Vial 21	11022 #5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL - NN	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL - NN	SIMALC1	1	Ctrl Samp		
24	Vial 24	11023 #1	SIMALC1	1	Sample		
25	Vial 25	11023 #2	SIMALC1	1	Sample		
26	Vial 26	11023 #3	SIMALC1	1	Sample		
27	Vial 27	11023 #4	SIMALC1	1	Sample		
28	Vial 28	11023 #5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL - NN	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL - NN	SIMALC1	1	Ctrl Samp		
31	Vial 31	11024 #1	SIMALC1	1	Sample		
32	Vial 32	11024 #2	SIMALC1	1	Sample		

11021
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11024
NN 5/17/11

Sequence: C:\HPCHEM\1\SEQUENCE\NNQAP1.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
33	Vial 33	11024 #3	SIMALC1	1	Sample		
34	Vial 34	11024 #4	SIMALC1	1	Sample		
35	Vial 35	11024 #5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL - NN	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL - NN	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!

11021
11022
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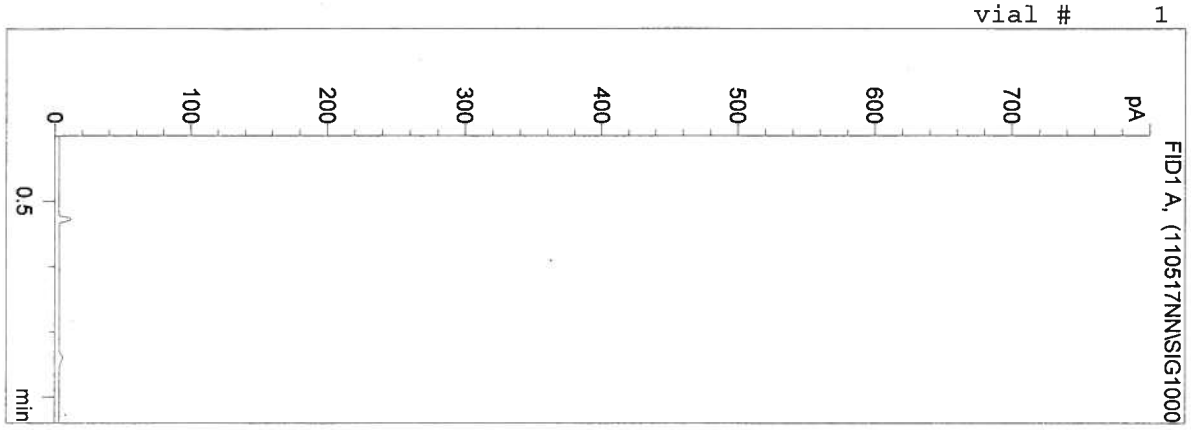
NN 11024
5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

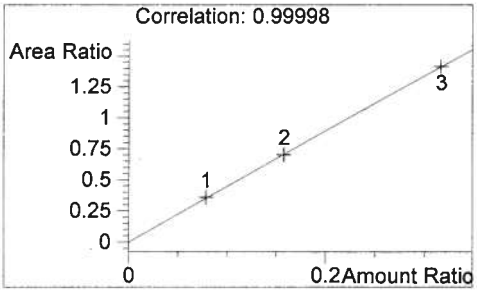
C:\HPCHEM\1\METHODS\SIMALC1.M
5/17/2011 12:38:09 PM
Instrument 1
DB-ALC1

BLANK
Naziha Nuwayhid, PhD

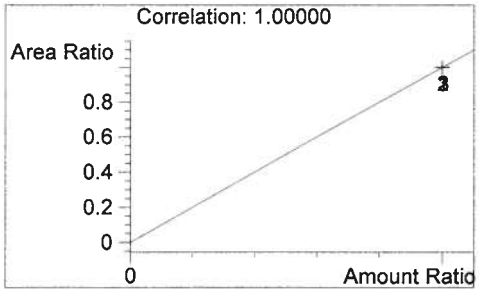
vial # 1



#	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

11021
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NN
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WASHINGTON STATE TOXICOLOGY LABORATORY

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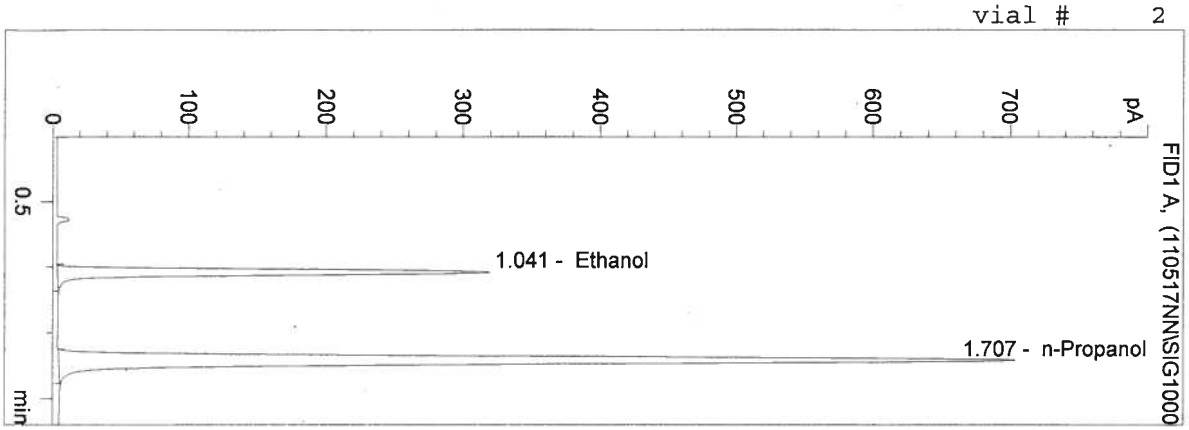
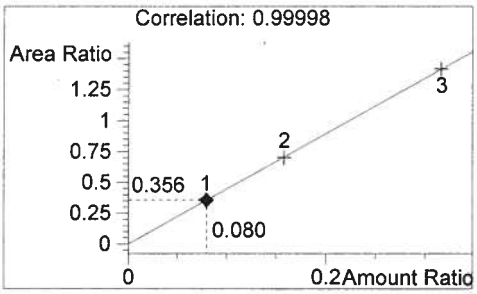
Instrument 1
DB-ALC1

0.079 CAL 1
Naziha Nuwayhid, PhD

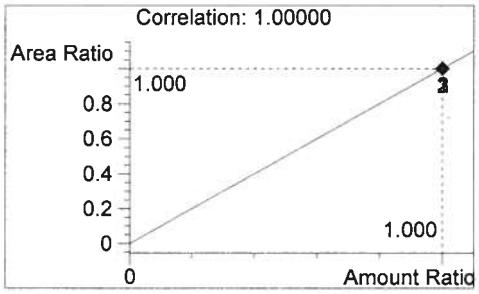
vial # 2



#	Compound	Area	RT
1	Ethanol	974	1.041
2	n-Propanol	2734	1.707
Tot			



Ethanol 0.080 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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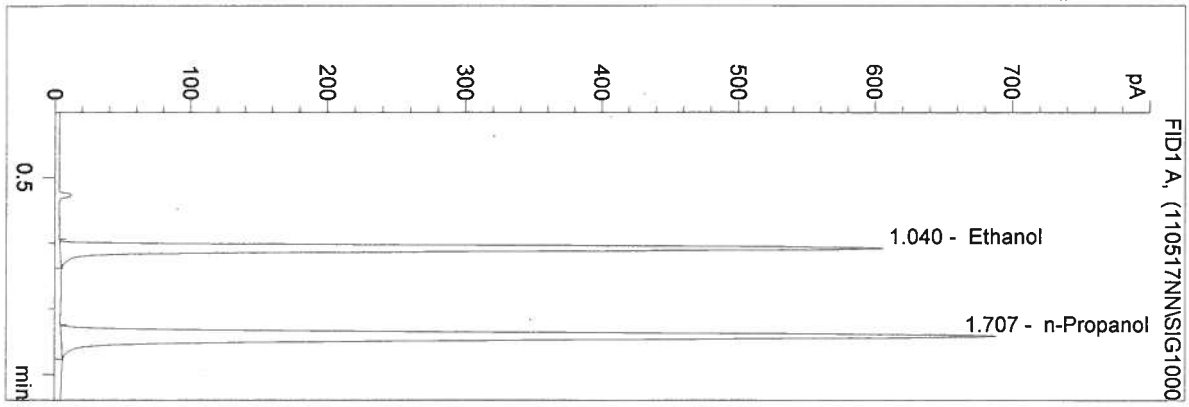
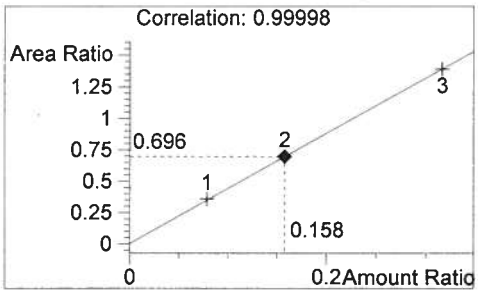
Instrument 1
DB-ALC1

0.158 CAL 2
Naziha Nuwayhid, PhD

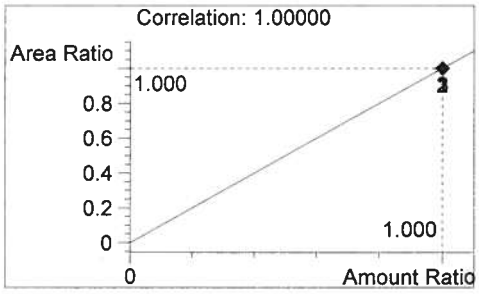
vial # 3



#	Compound	Area	RT
1	Ethanol	1857	1.040
2	n-Propanol	2669	1.707
Tot			



Ethanol 0.158 g/100 mL



n-Propanol 1.000 g/100 mL

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5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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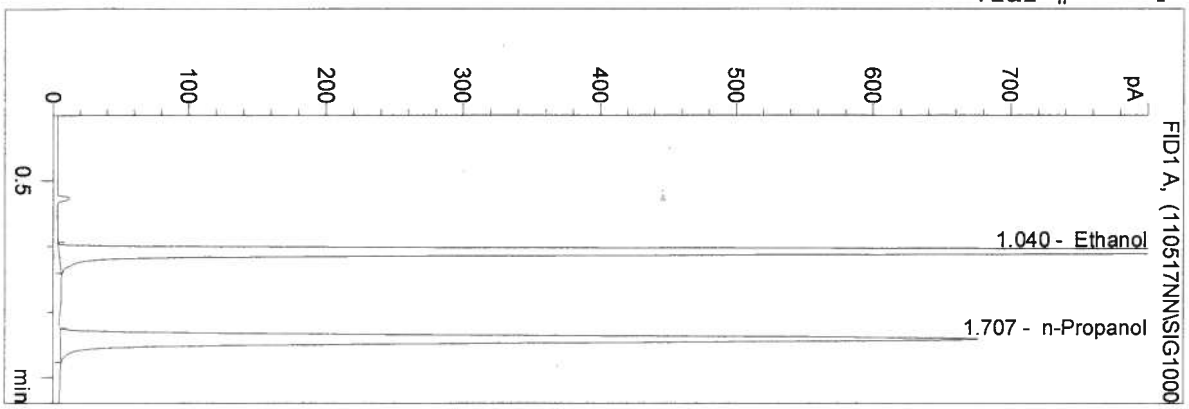
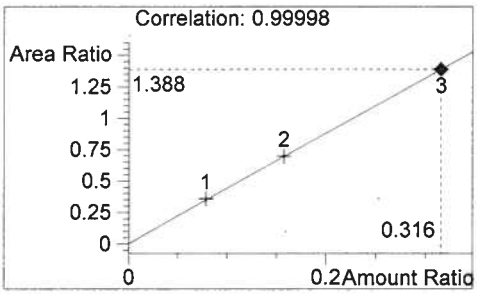
Instrument 1
DB-ALC1

0.316 CAL 3
Naziha Nuwayhid, PhD

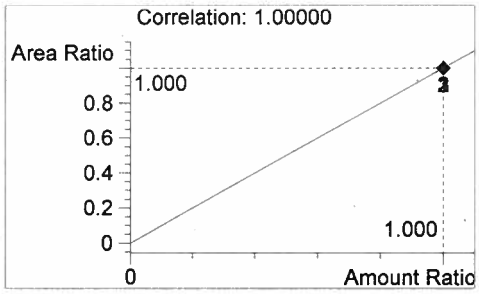
vial # 4



#	Compound	Area	RT
1	Ethanol	3631	1.040
2	n-Propanol	2615	1.707
Tot			



Ethanol 0.316 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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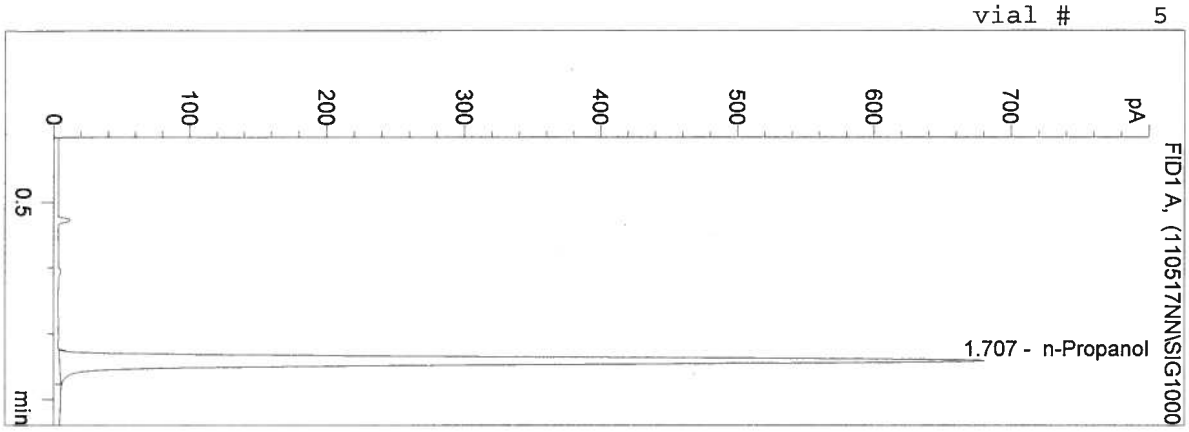
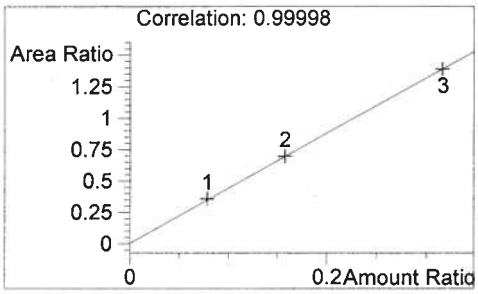
5/17/2011 12:50:28 PM
Instrument 1
DB-ALC1

NEG CTRL - NN
Naziha Nuwayhid, PhD

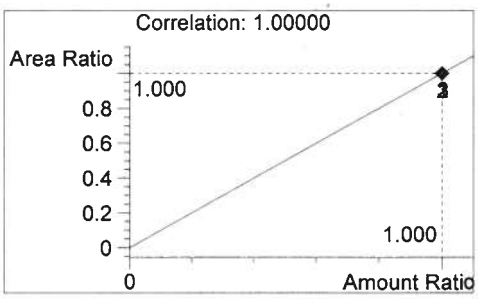
vial # 5



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2632	1.707
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

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NN 5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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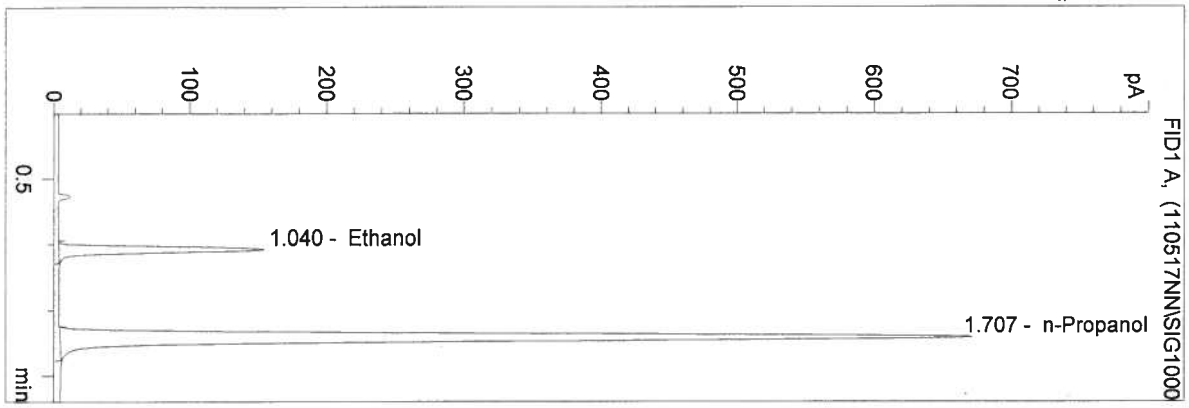
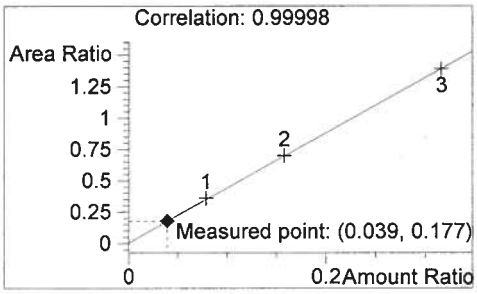
Instrument 1
DB-ALC1

0.04 CTRL - NN
Naziha Nuwayhid, PhD

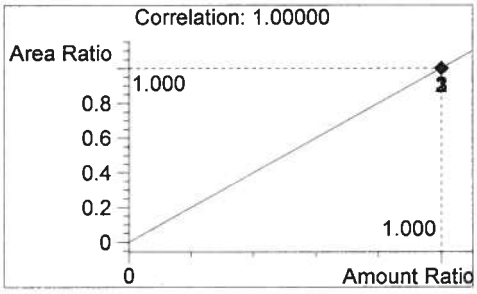
vial # 6



#	Compound	Area	RT
1	Ethanol	459	1.040
2	n-Propanol	2601	1.707
Tot			



Ethanol 0.039 g/100 mL



n-Propanol 1.000 g/100 mL

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5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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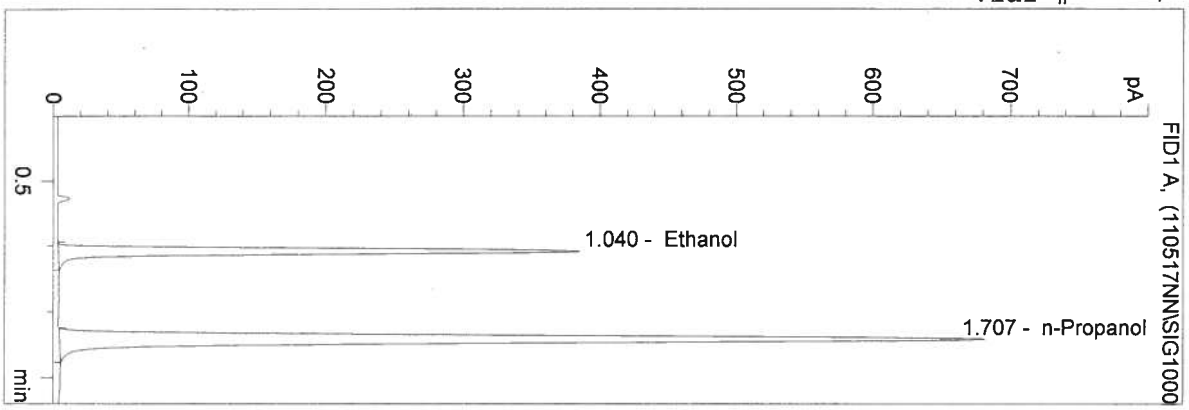
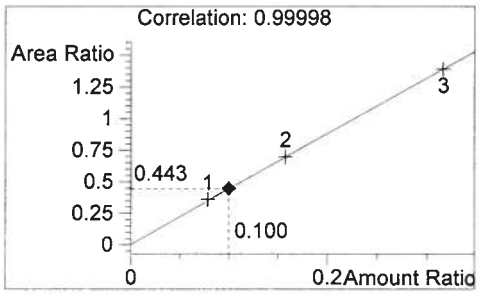
Instrument 1
DB-ALC1

0.10 CTRL - NN
Naziha Nuwayhid, PhD

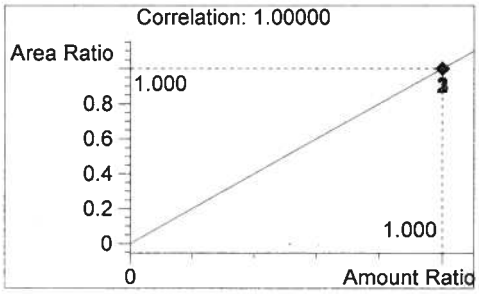
vial # 7



#	Compound	Area	RT
1	Ethanol	1170	1.040
2	n-Propanol	2639	1.707
Tot			



Ethanol 0.100 g/100 mL



n-Propanol 1.000 g/100 mL

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NN
5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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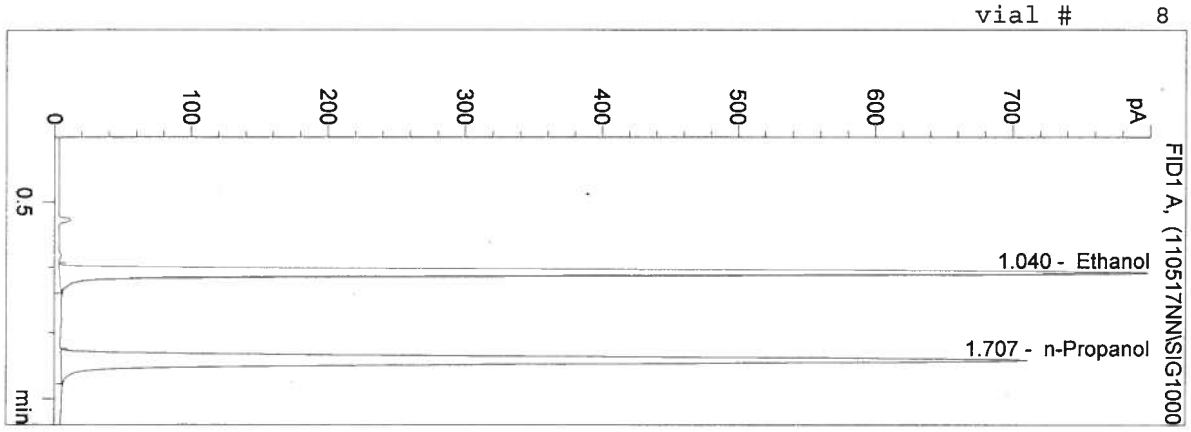
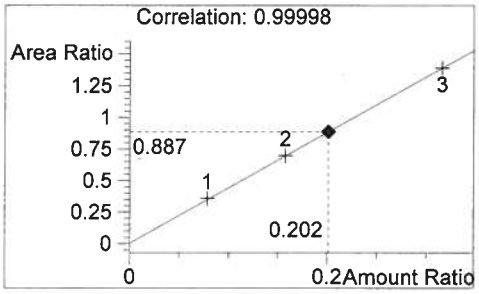
5/17/2011 12:59:42 PM
Instrument 1
DB-ALC1

0.20 CTRL -NN
Naziha Nuwayhid, PhD

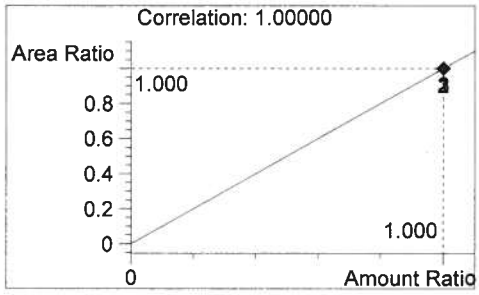
vial # 8



#	Compound	Area	RT
1	Ethanol	2440	1.040
2	n-Propanol	2750	1.707
Tot			



Ethanol 0.202 g/100 mL



n-Propanol 1.000 g/100 mL

11021
11022
11023
11024

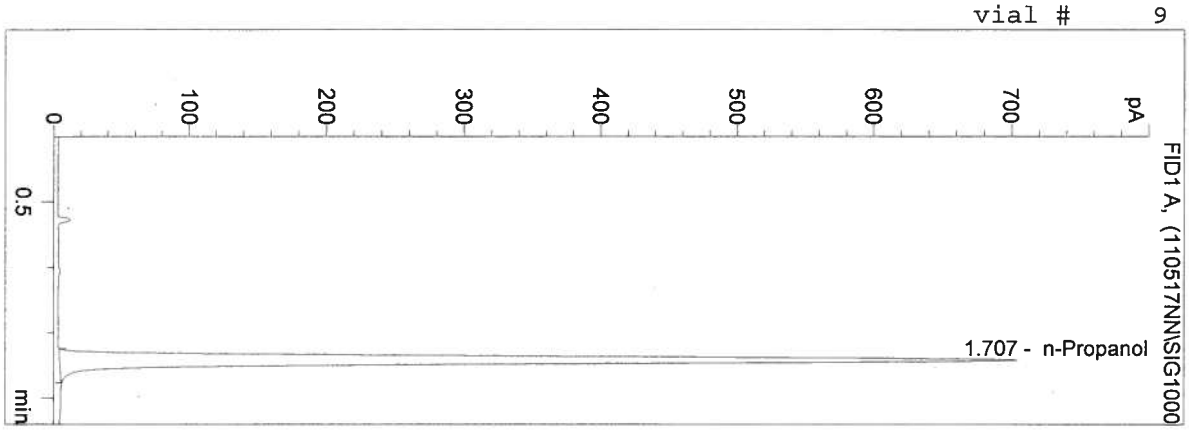
NN 5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

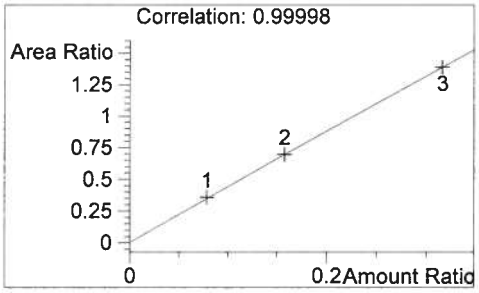
C:\HPCHEM\1\METHODS\SIMALC1.M
5/17/2011 1:02:47 PM
Instrument 1
DB-ALC1

NEG CTRL - NN
Naziha Nuwayhid, PhD

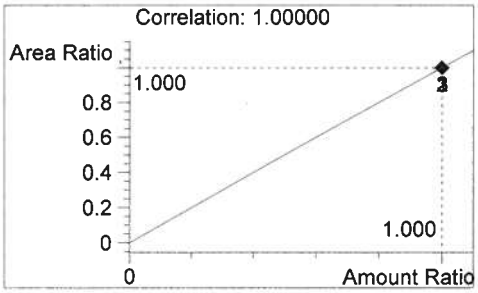
vial # 9



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2729	1.707
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11021
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NN
5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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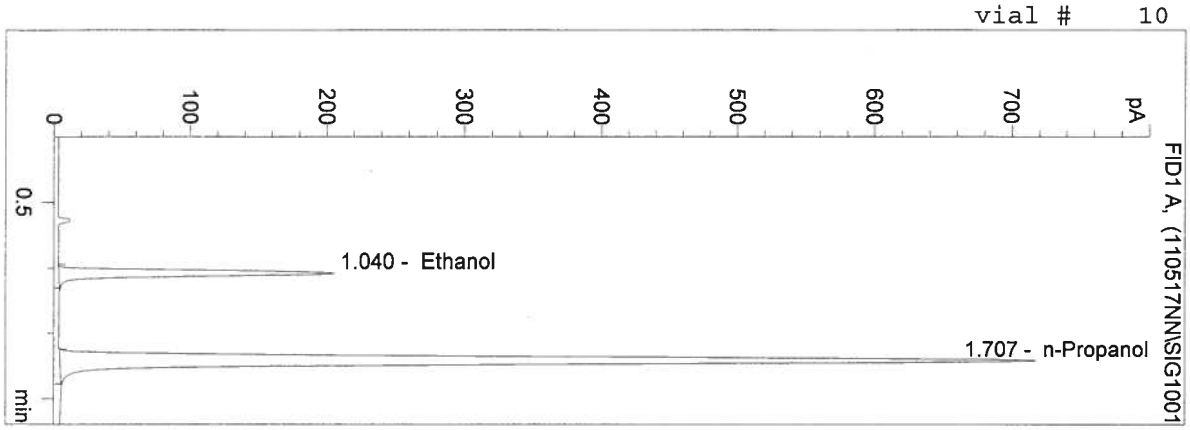
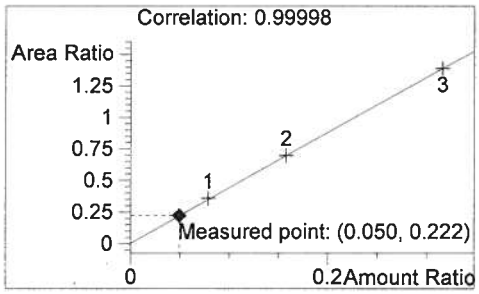
Instrument 1
DB-ALC1

11021 #1
Naziha Nuwayhid, PhD

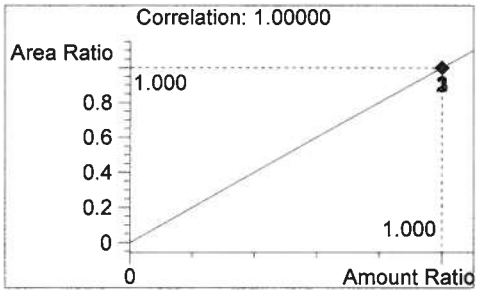
vial # 10



#	Compound	Area	RT
1	Ethanol	615	1.040
2	n-Propanol	2777	1.707
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

NN 5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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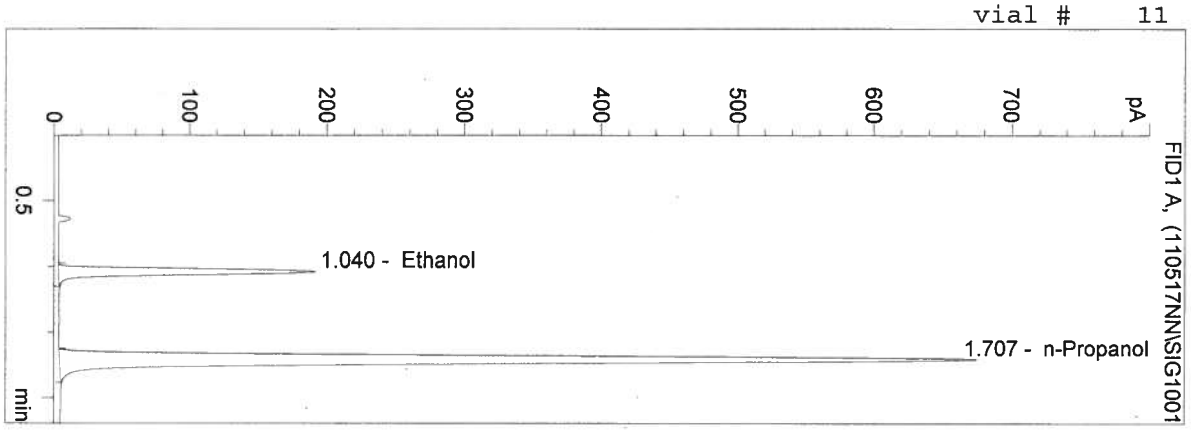
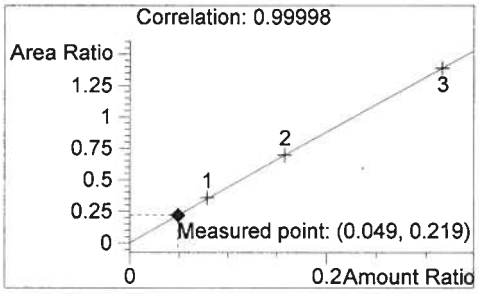
5/17/2011 1:08:57 PM
Instrument 1
DB-ALC1

11021 #2
Naziha Nuwayhid, PhD

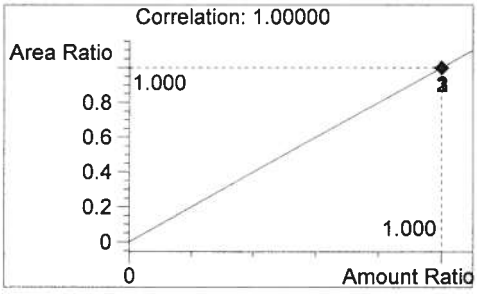
vial # 11



#	Compound	Area	RT
1	Ethanol	573	1.040
2	n-Propanol	2613	1.707
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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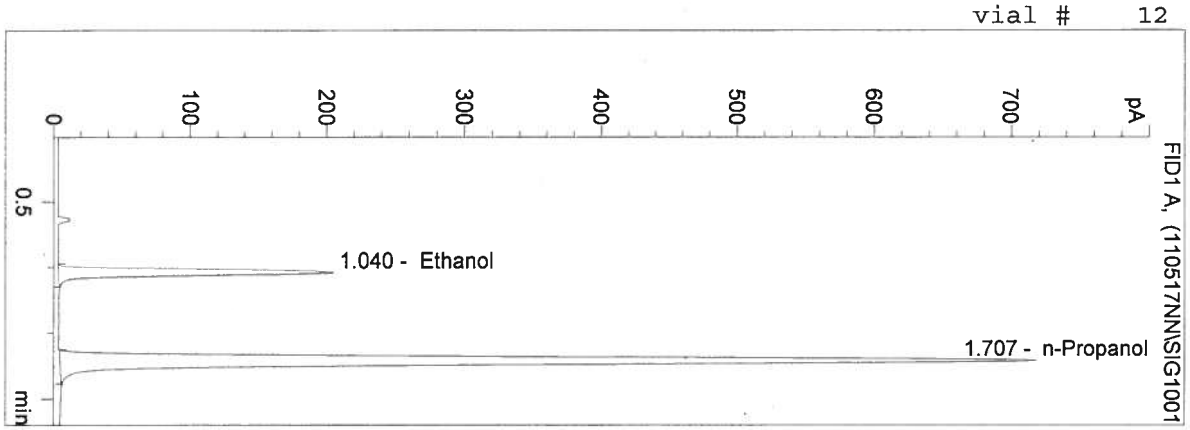
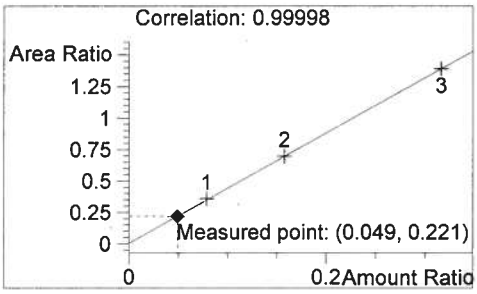
Instrument 1
DB-ALC1

11021 #3
Naziha Nuwayhid, PhD

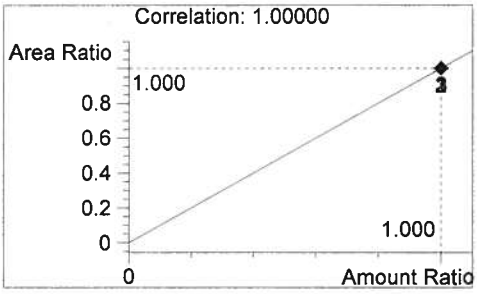
vial # 12



#	Compound	Area	RT
1	Ethanol	613	1.040
2	n-Propanol	2777	1.707
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

NN
5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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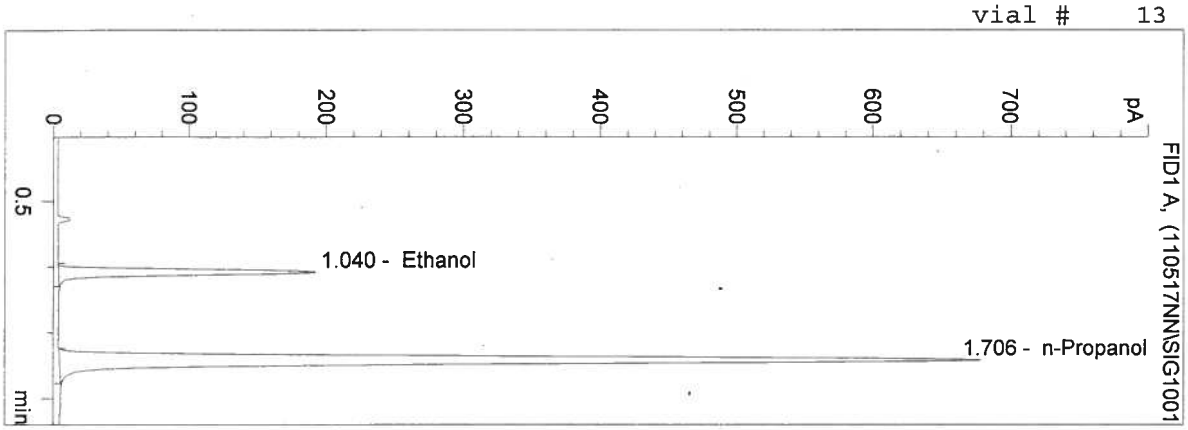
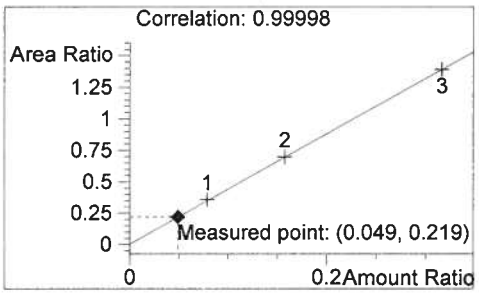
5/17/2011 1:15:06 PM
Instrument 1
DB-ALC1

11021 #4
Naziha Nuwayhid, PhD

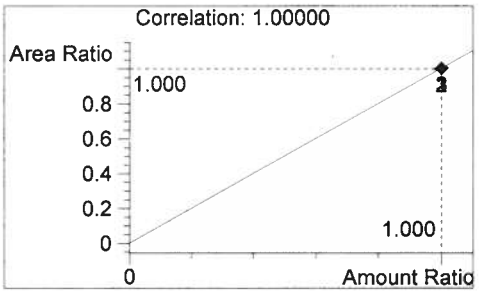
vial # 13



#	Compound	Area	RT
1	Ethanol	573	1.040
2	n-Propanol	2615	1.706
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

NN
5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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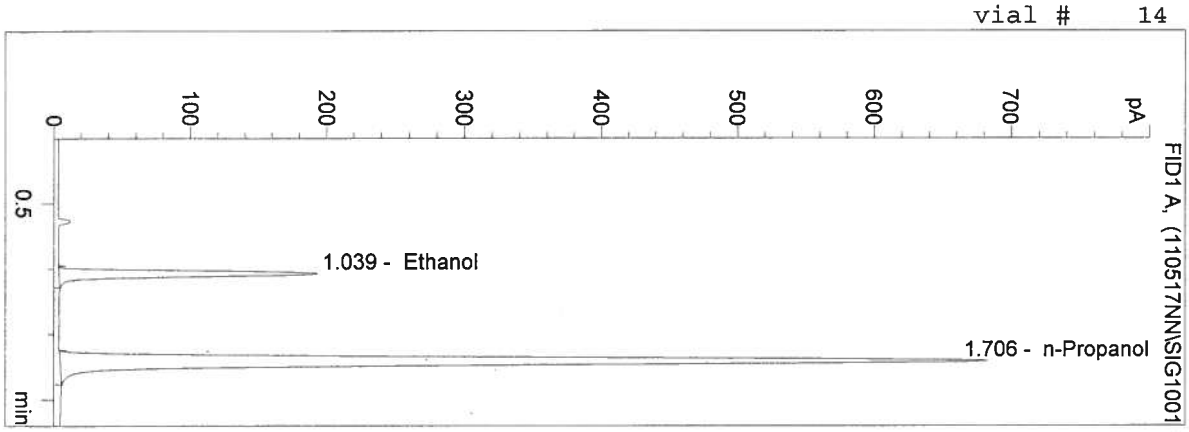
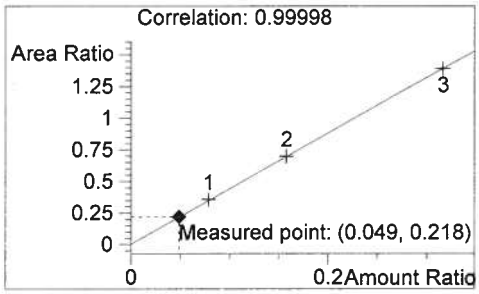
Instrument 1
DB-ALC1

11021 #5
Naziha Nuwayhid, PhD

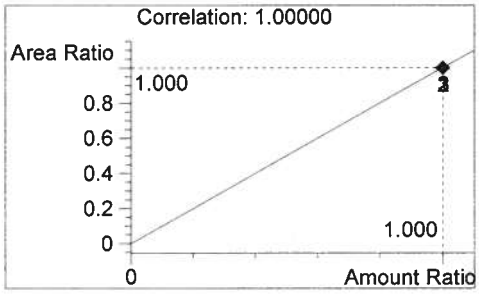
vial # 14



#	Compound	Area	RT
1	Ethanol	575	1.039
2	n-Propanol	2637	1.706
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

NN 5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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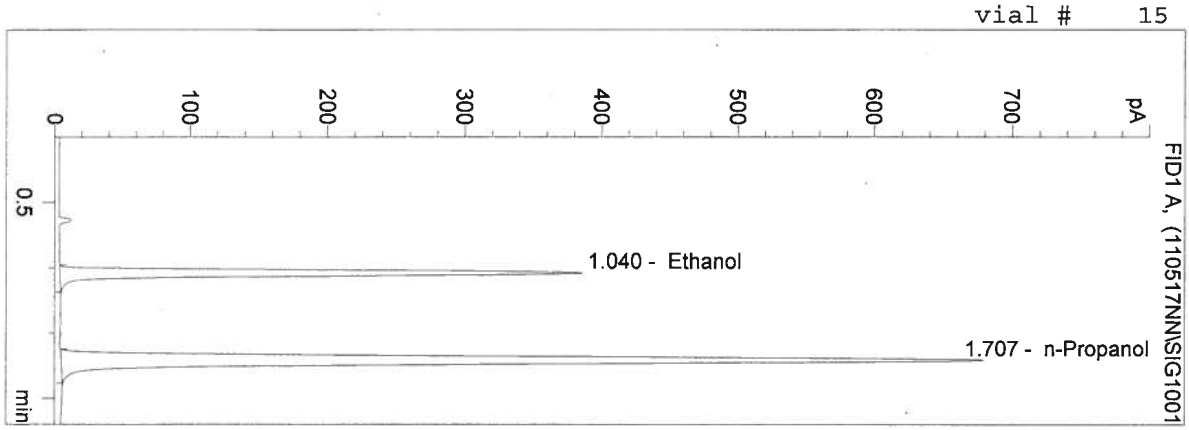
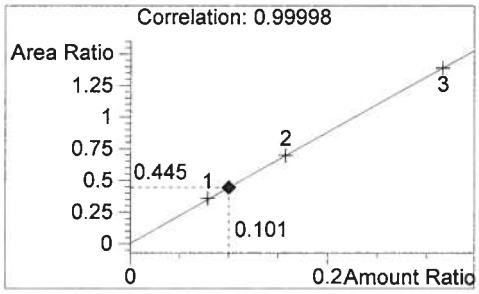
5/17/2011 1:21:16 PM
Instrument 1
DB-ALC1

0.10 CTRL - NN
Naziha Nuwayhid, PhD

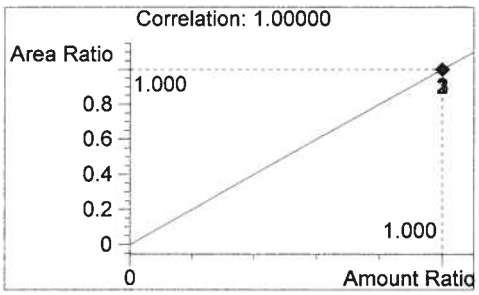
vial # 15



#	Compound	Area	RT
1	Ethanol	1167	1.040
2	n-Propanol	2624	1.707
Tot			



Ethanol 0.101 g/100 mL



n-Propanol 1.000 g/100 mL

11021

NN
5/17/11

WASHINGTON STATE TOXICOLOGY LABORATORY

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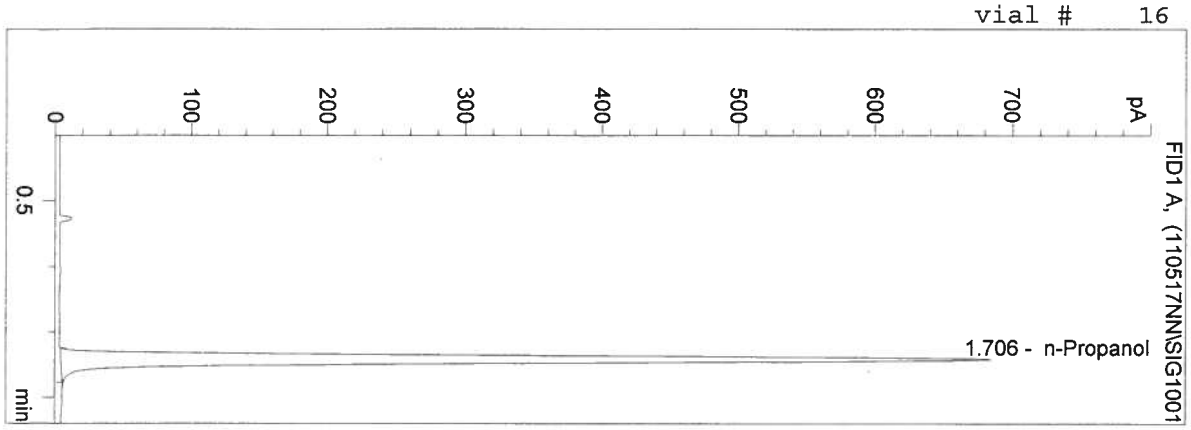
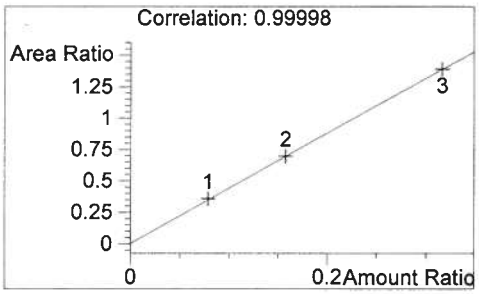
5/17/2011 1:24:20 PM
Instrument 1
DB-ALC1

NEG CTRL - NN
Naziha Nuwayhid, PhD

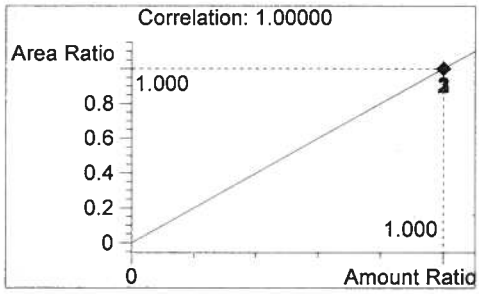
vial # 16



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2648	1.706
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

1102
1102 SHS 5/26/11

NN
5/17/11

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:	110518CM
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 # A073849 - exp 07/2014

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	11021 #1	SIMALC1	1	Sample		
11	Vial 11	11021 #2	SIMALC1	1	Sample		
12	Vial 12	11021 #3	SIMALC1	1	Sample		
13	Vial 13	11021 #4	SIMALC1	1	Sample		
14	Vial 14	11021 #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	11022 #1	SIMALC1	1	Sample		
18	Vial 18	11022 #2	SIMALC1	1	Sample		
19	Vial 19	11022 #3	SIMALC1	1	Sample		
20	Vial 20	11022 #4	SIMALC1	1	Sample		
21	Vial 21	11022 #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	11023 #1	SIMALC1	1	Sample		
25	Vial 25	11023 #2	SIMALC1	1	Sample		
26	Vial 26	11023 #3	SIMALC1	1	Sample		
27	Vial 27	11023 #4	SIMALC1	1	Sample		
28	Vial 28	11023 #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	11024 #1	SIMALC1	1	Sample		
32	Vial 32	11024 #2	SIMALC1	1	Sample		

CM

Calibrators filed with 11021

11021
11022
11023
11024

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

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
33	Vial 33	11024 #3	SIMALC1	1	Sample		
34	Vial 34	11024 #4	SIMALC1	1	Sample		
35	Vial 35	11024 #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!

CM

11021

11022

11023

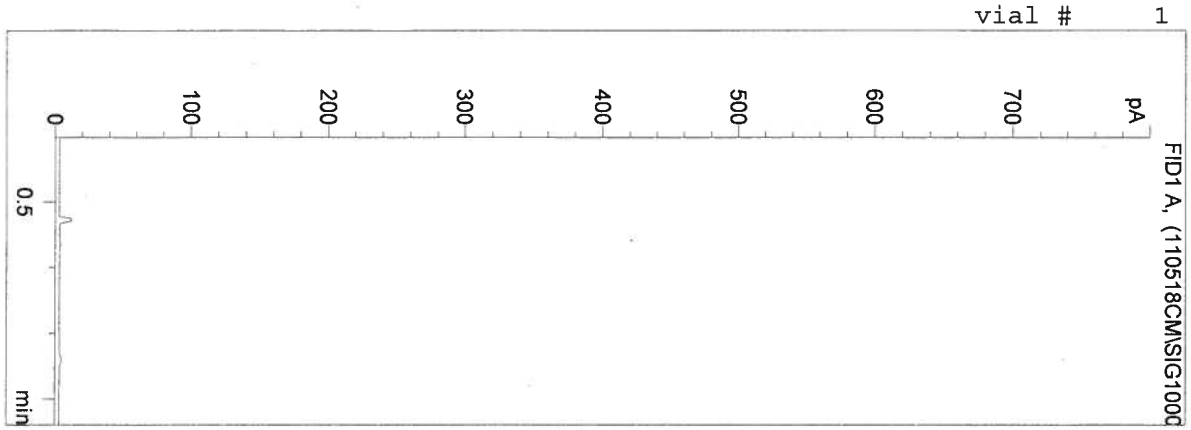
11024

WASHINGTON STATE TOXICOLOGY LABORATORY

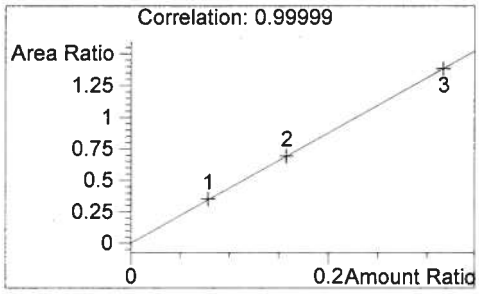
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 9:40:37 AM
Instrument 1
DB-ALC1

BLANK
Christie Mitchell

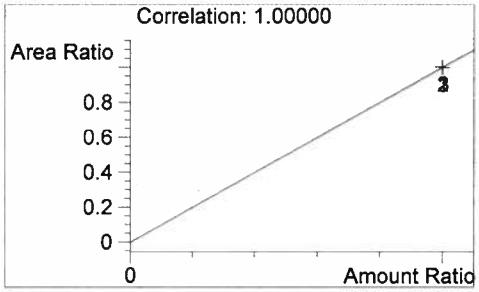
vial # 1



#	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

CM

11021

11022

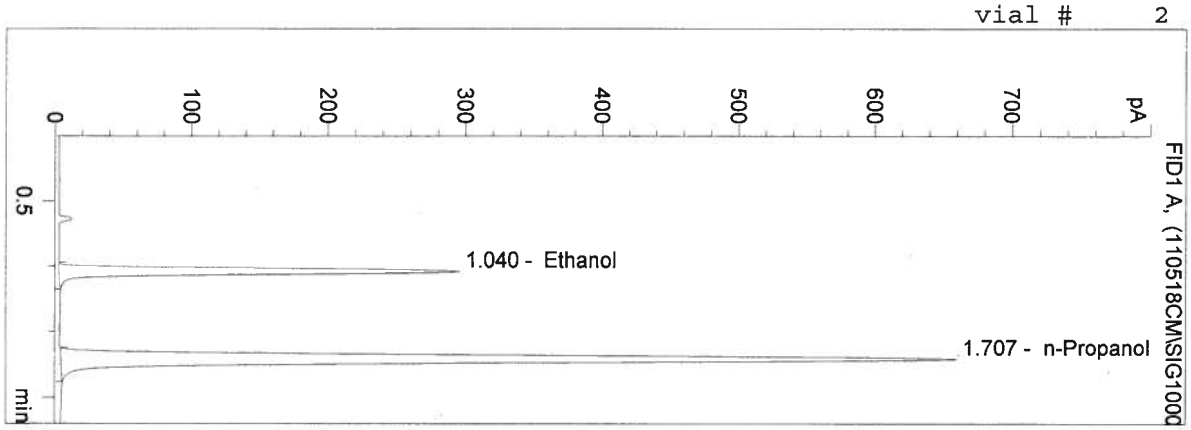
1 1 0 2 3 4

WASHINGTON STATE TOXICOLOGY LABORATORY

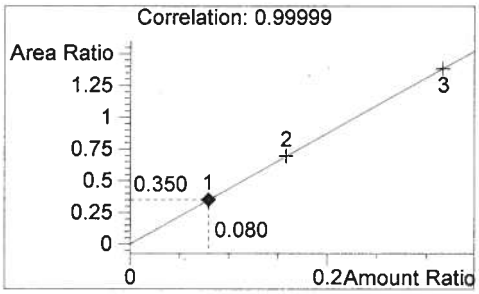
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 9:43:42 AM
Instrument 1
DB-ALC1

0.079 CAL 1
Christie Mitchell

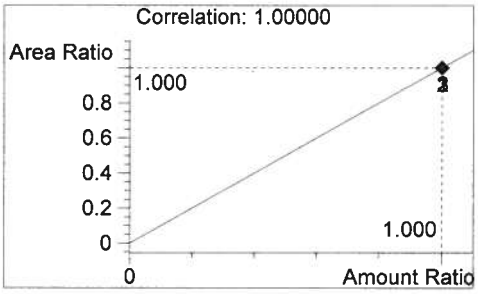
vial # 2



#	Compound	Area	RT
1	Ethanol	894	1.040
2	n-Propanol	2552	1.707
Tot			



Ethanol 0.080 g/100 mL



n-Propanol 1.000 g/100 mL

CM

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11023
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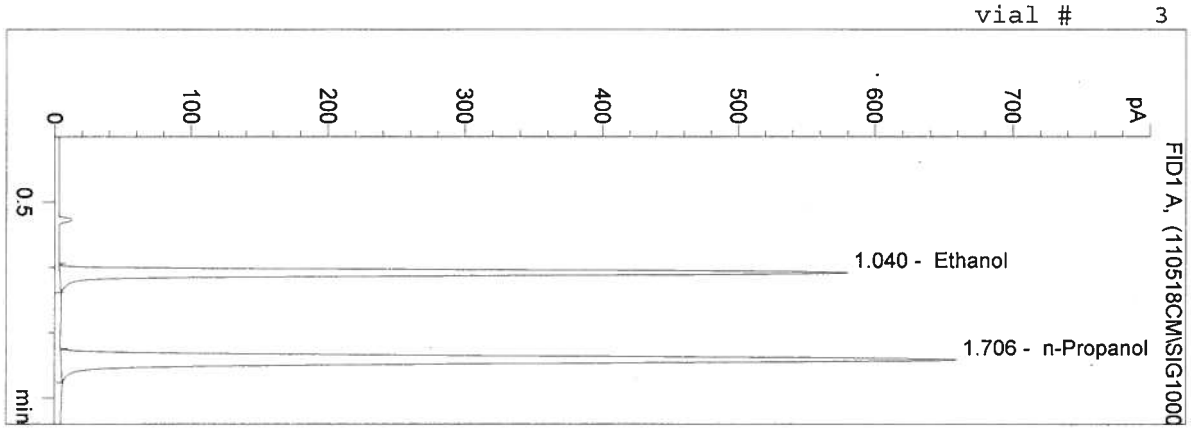
WASHINGTON STATE TOXICOLOGY LABORATORY

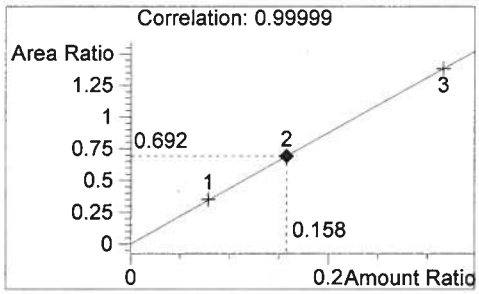
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 9:46:47 AM
Instrument 1
DB-ALC1

0.158 CAL 2
Christie Mitchell

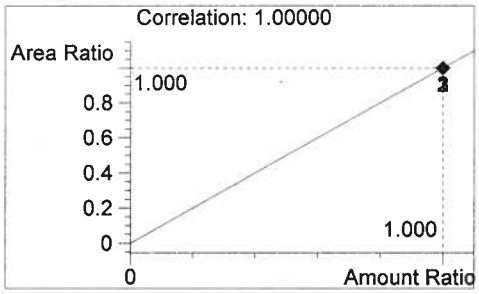
vial # 3



#	Compound	Area	RT
1	Ethanol	1766	1.040
2	n-Propanol	2552	1.706
Tot			



Ethanol 0.158 g/100 mL



n-Propanol 1.000 g/100 mL

CM

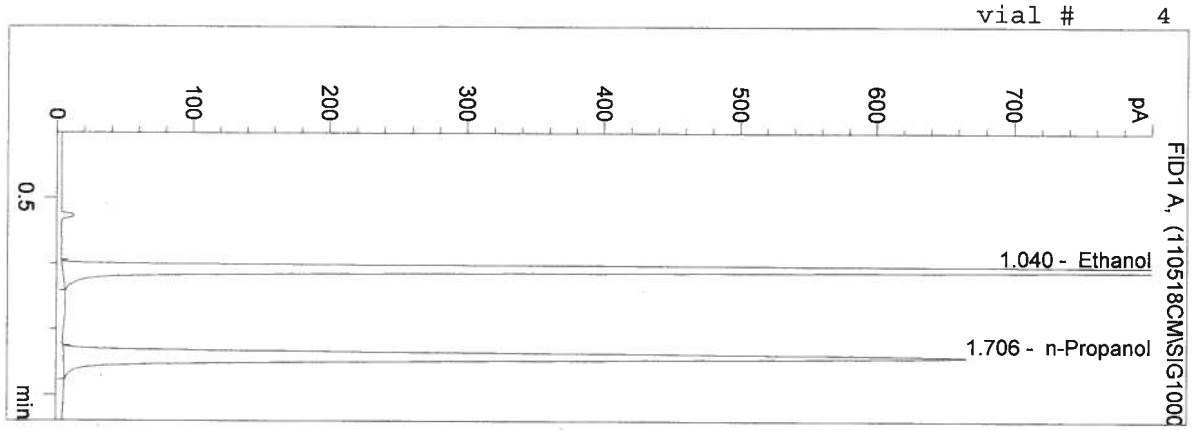
11021
11022
11023
11024

WASHINGTON STATE TOXICOLOGY LABORATORY

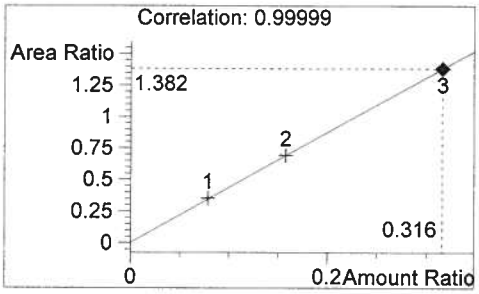
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 9:49:52 AM
Instrument 1
DB-ALC1

0.316 CAL 3
Christie Mitchell

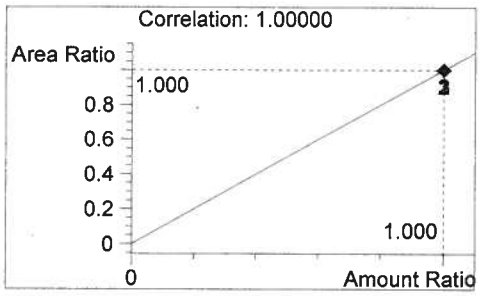
vial # 4



#	Compound	Area	RT
1	Ethanol	3552	1.040
2	n-Propanol	2570	1.706
Tot			



Ethanol 0.316 g/100 mL



n-Propanol 1.000 g/100 mL

CM

11021
11022
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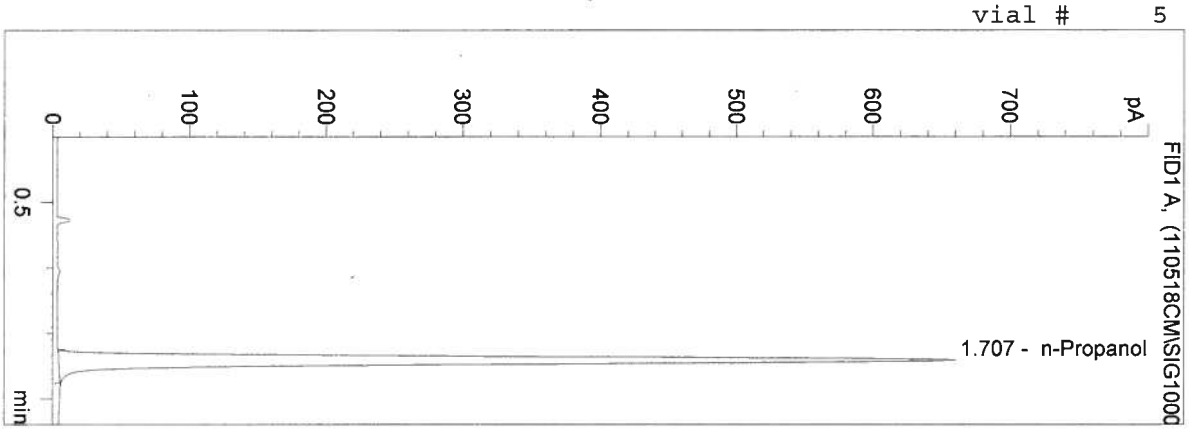
WASHINGTON STATE TOXICOLOGY LABORATORY

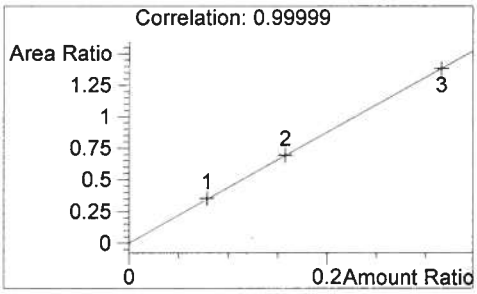
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 9:52:56 AM
Instrument 1
DB-ALC1

NEG CTRL - CM
Christie Mitchell

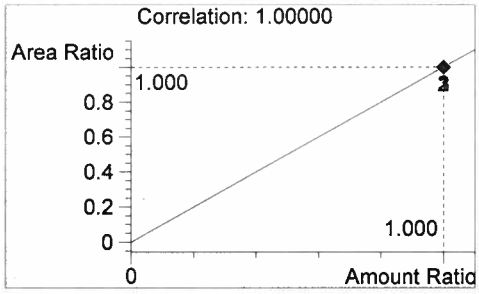
vial # 5



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2562	1.707
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

CM

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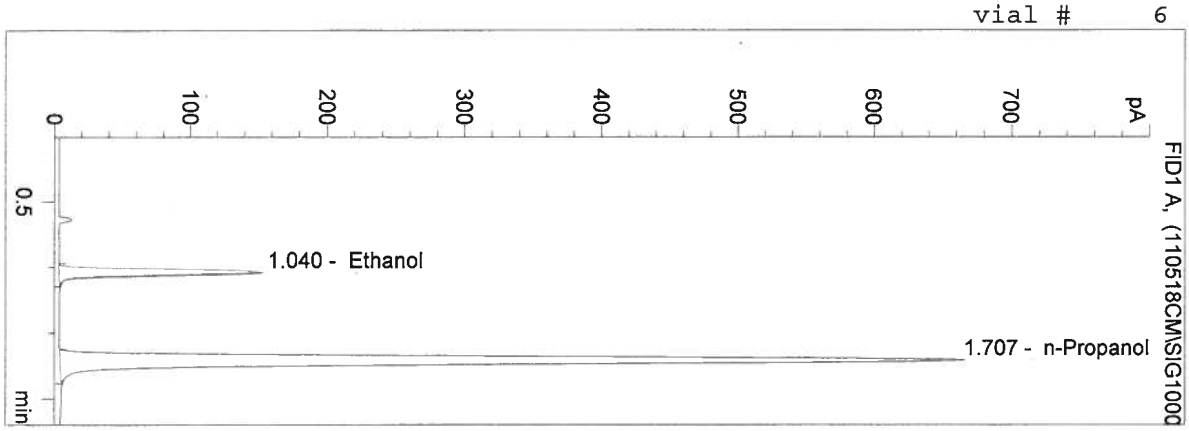
WASHINGTON STATE TOXICOLOGY LABORATORY

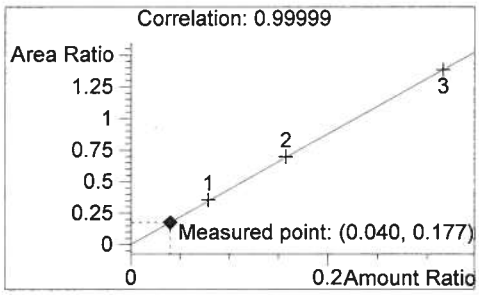
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 9:56:01 AM
Instrument 1
DB-ALC1

0.04 CTRL - CM
Christie Mitchell

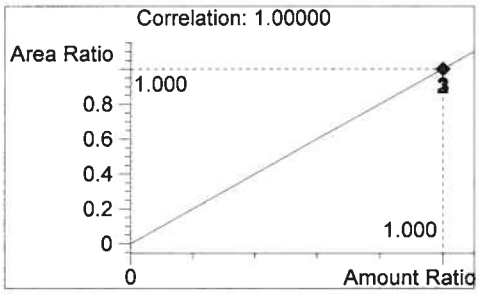
vial # 6



#	Compound	Area	RT
1	Ethanol	457	1.040
2	n-Propanol	2578	1.707
Tot			



Ethanol 0.040 g/100 mL



n-Propanol 1.000 g/100 mL

CM

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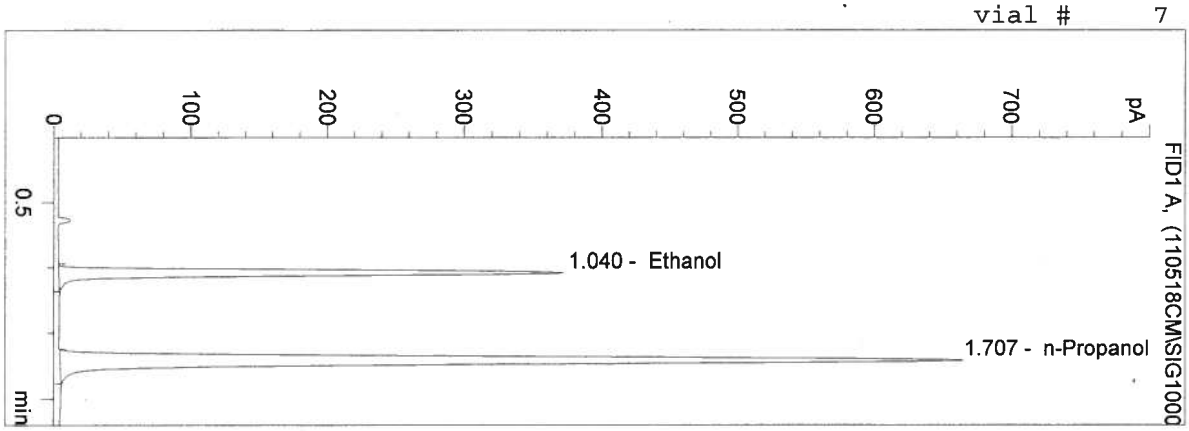
WASHINGTON STATE TOXICOLOGY LABORATORY

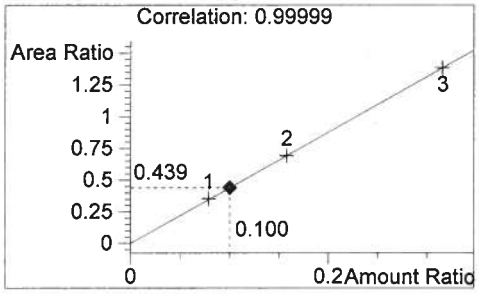
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 9:59:06 AM
Instrument 1
DB-ALC1

0.10 CTRL - CM
Christie Mitchell

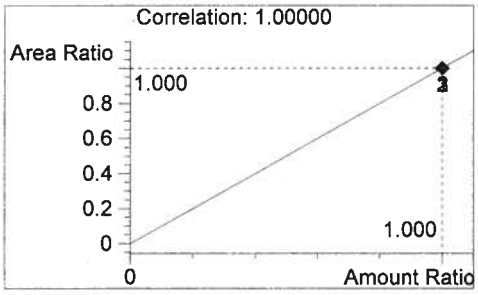
vial # 7



#	Compound	Area	RT
1	Ethanol	1130	1.040
2	n-Propanol	2574	1.707
Tot			



Ethanol 0.100 g/100 mL



n-Propanol 1.000 g/100 mL

CM

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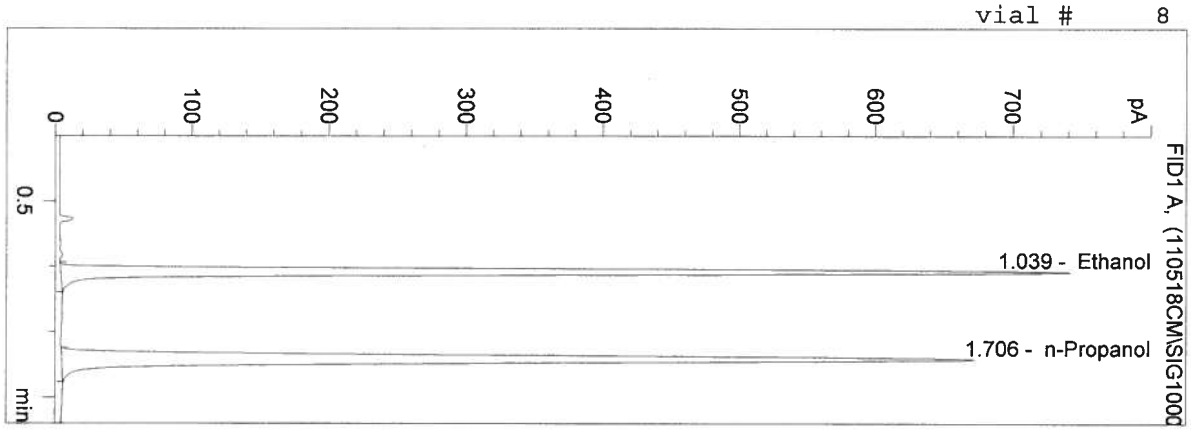
WASHINGTON STATE TOXICOLOGY LABORATORY

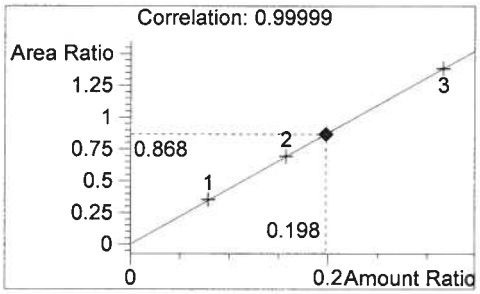
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 10:02:11 AM
Instrument 1
DB-ALC1

0.20 CTRL -CM
Christie Mitchell

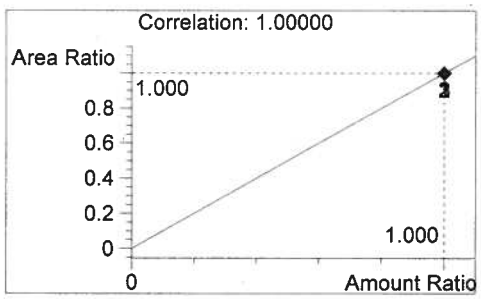
vial # 8



#	Compound	Area	RT
1	Ethanol	2258	1.039
2	n-Propanol	2603	1.706
Tot			



Ethanol 0.198 g/100 mL



n-Propanol 1.000 g/100 mL

CM

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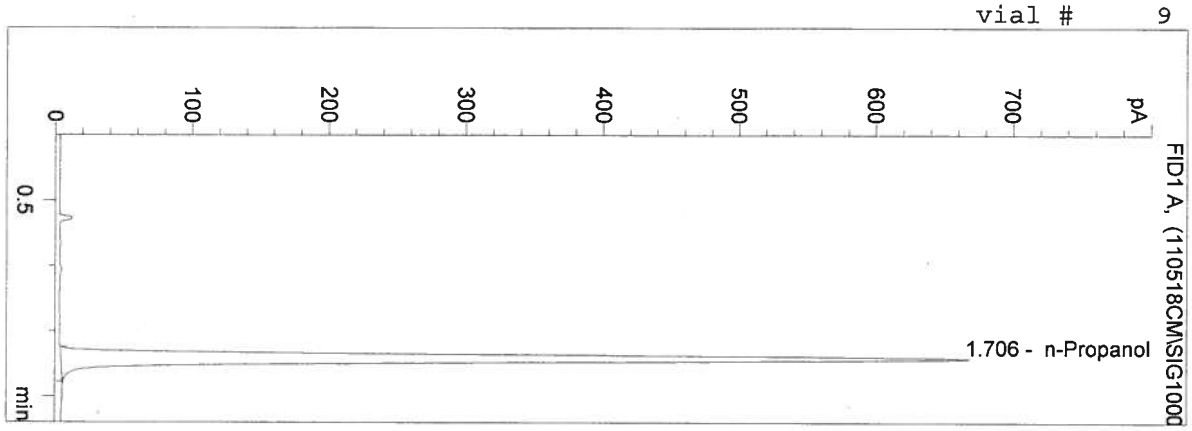
WASHINGTON STATE TOXICOLOGY LABORATORY

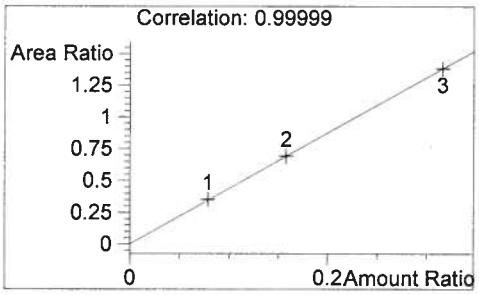
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 10:05:15 AM
Instrument 1
DB-ALC1

NEG CTRL - CM
Christie Mitchell

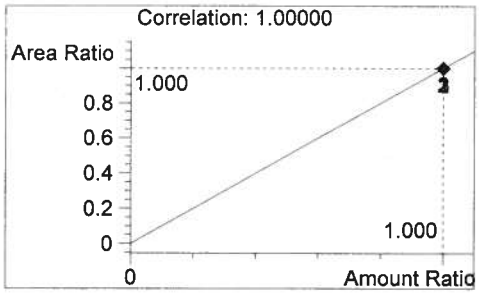
vial # 9



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2589	1.706
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

CM

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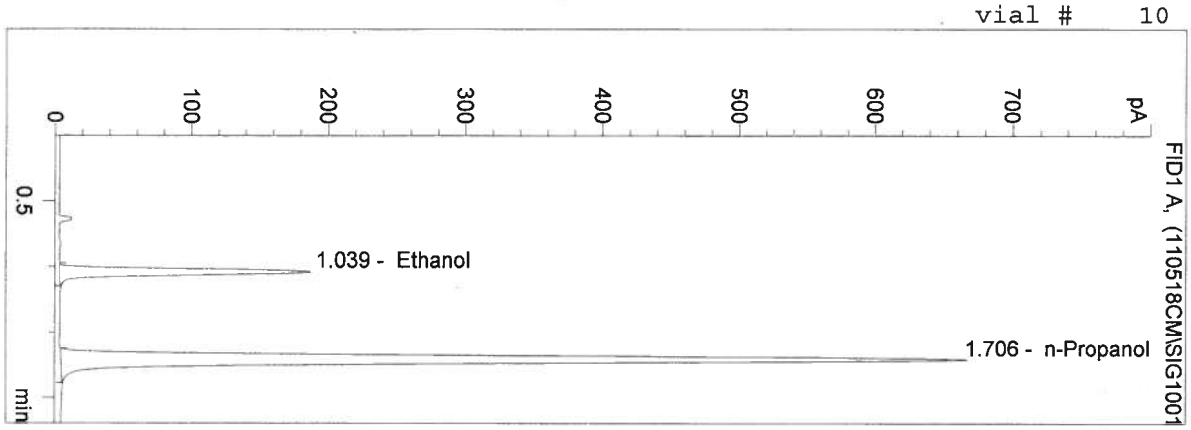
WASHINGTON STATE TOXICOLOGY LABORATORY

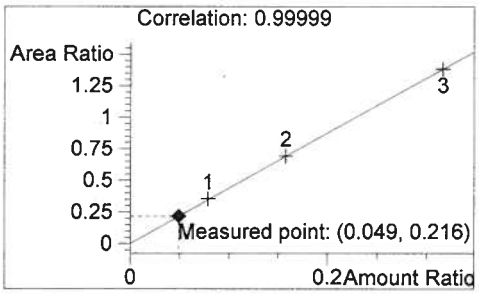
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 10:08:20 AM
Instrument 1
DB-ALC1

11021 #1
Christie Mitchell

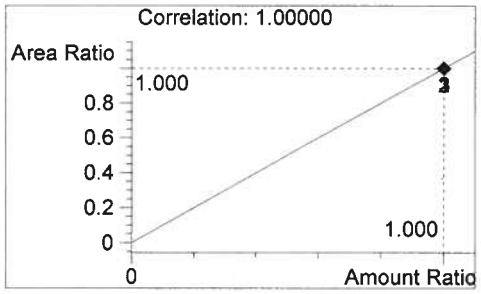
vial # 10



#	Compound	Area	RT
1	Ethanol	558	1.039
2	n-Propanol	2581	1.706
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

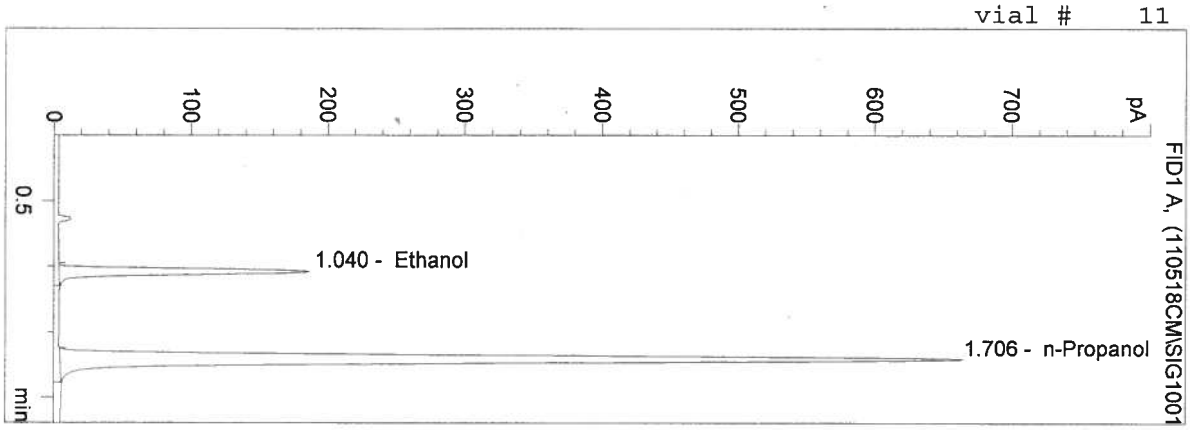
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

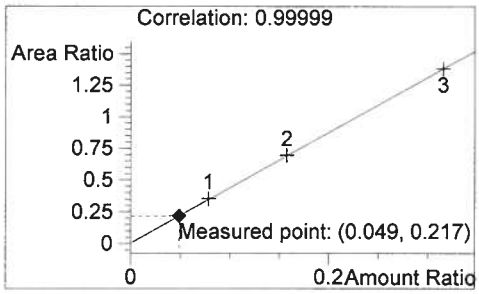
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 10:11:25 AM
Instrument 1
DB-ALC1

11021 #2
Christie Mitchell

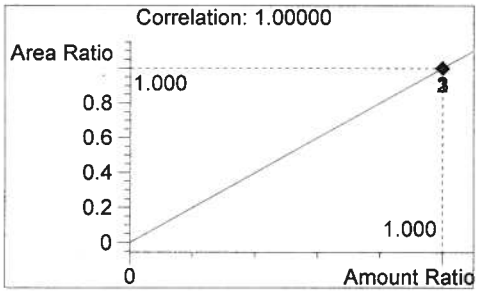
vial # 11



#	Compound	Area	RT
1	Ethanol	557	1.040
2	n-Propanol	2569	1.706
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

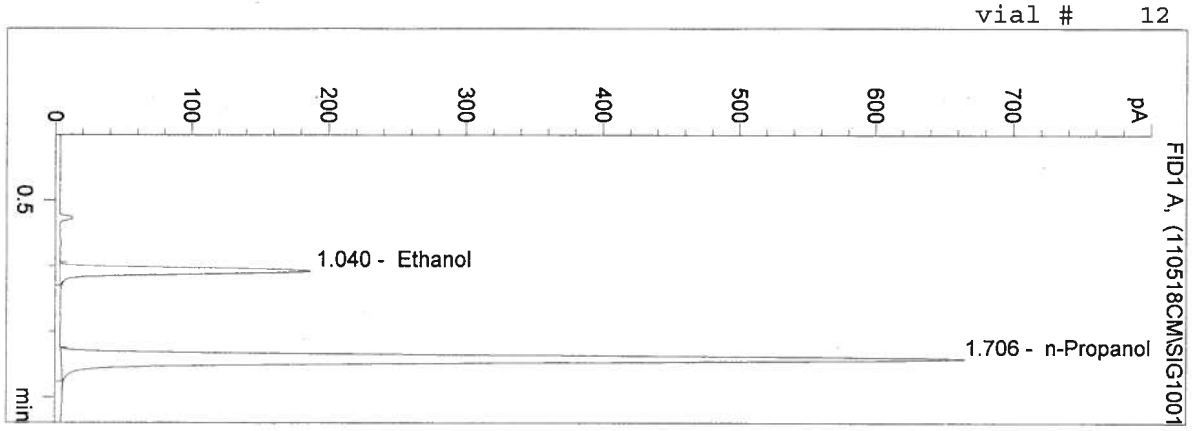
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

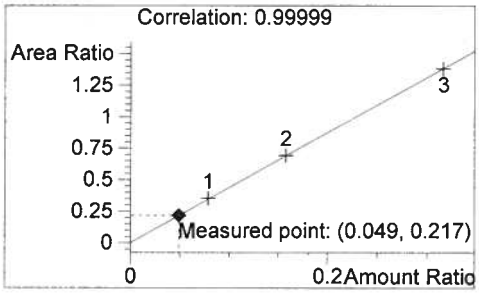
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 10:14:30 AM
Instrument 1
DB-ALC1

11021 #3
Christie Mitchell

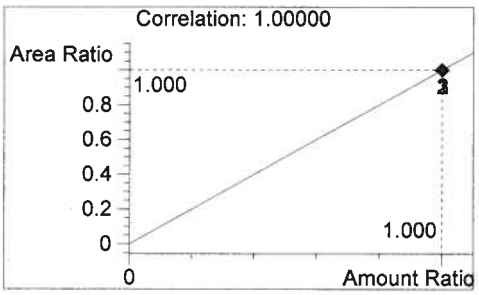
vial # 12



#	Compound	Area	RT
1	Ethanol	558	1.040
2	n-Propanol	2575	1.706
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

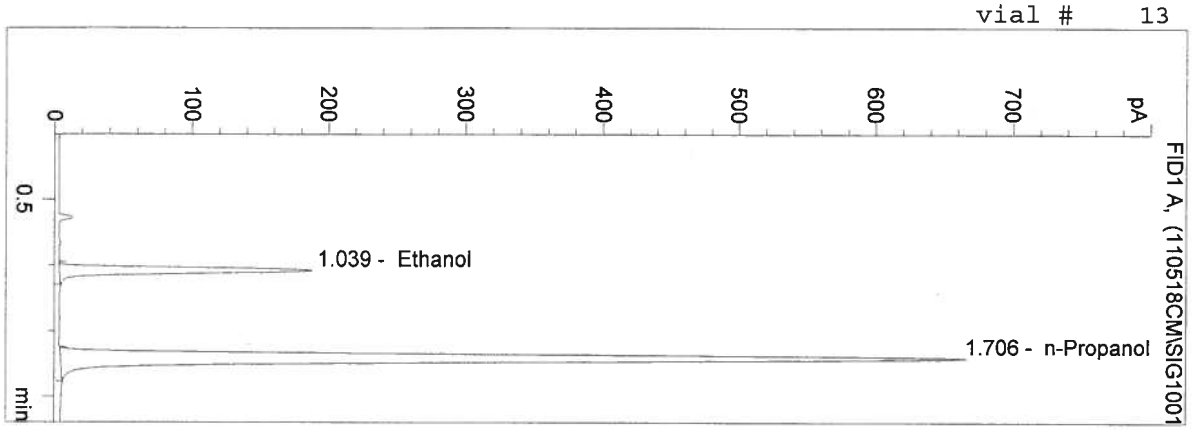
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

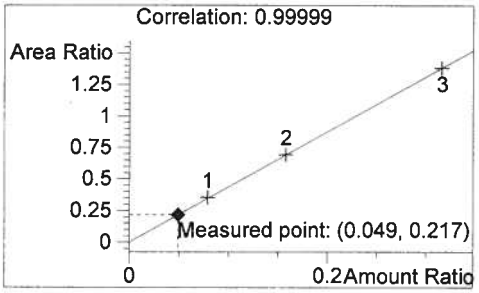
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 10:17:35 AM
Instrument 1
DB-ALC1

11021 #4
Christie Mitchell

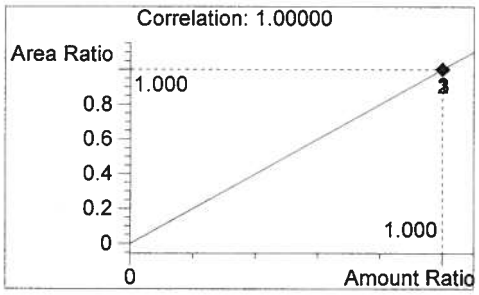
vial # 13



#	Compound	Area	RT
1	Ethanol	559	1.039
2	n-Propanol	2573	1.706
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

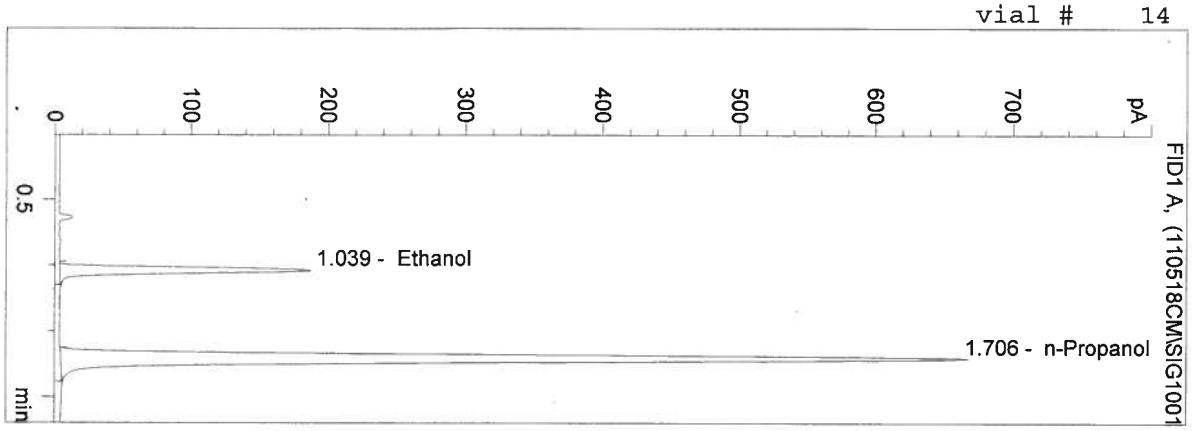
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

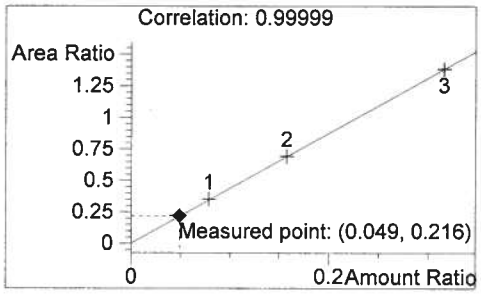
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 10:20:39 AM
Instrument 1
DB-ALC1

11021 #5
Christie Mitchell

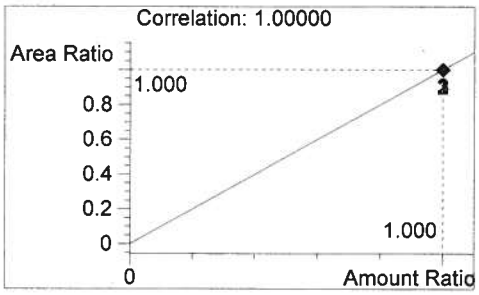
vial # 14



#	Compound	Area	RT
1	Ethanol	558	1.039
2	n-Propanol	2578	1.706
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

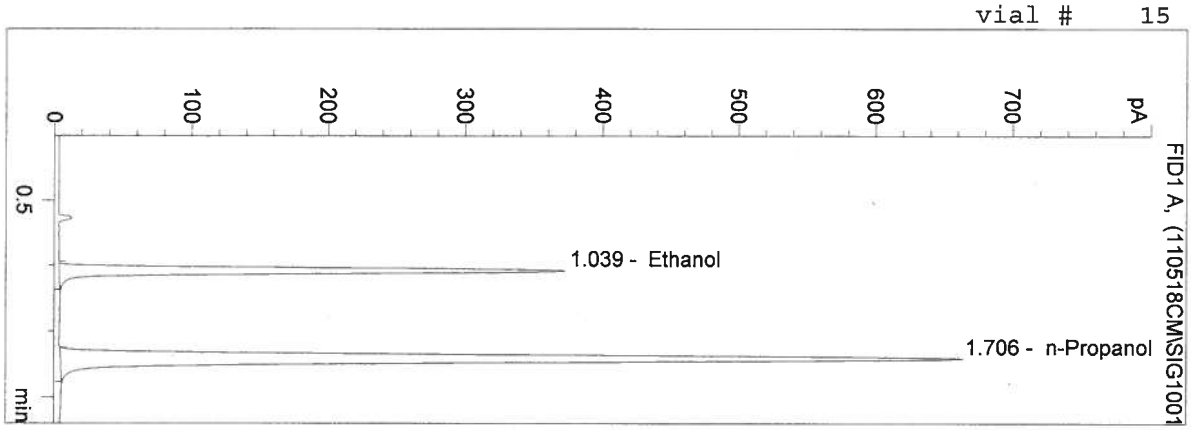
CM

WASHINGTON STATE TOXICOLOGY LABORATORY

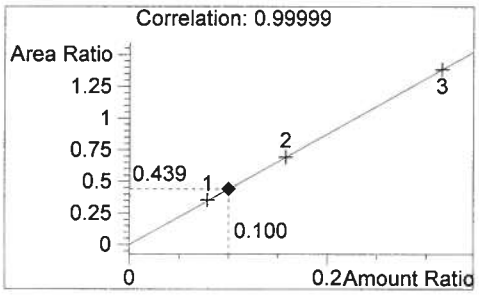
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 10:23:44 AM
Instrument 1
DB-ALC1

0.10 CTRL - CM
Christie Mitchell

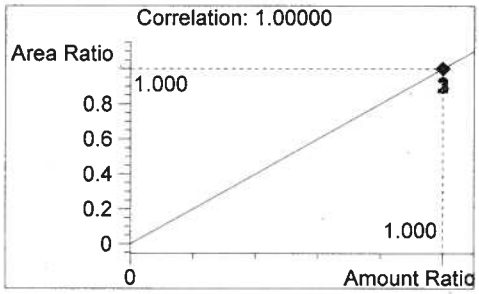
vial # 15



#	Compound	Area	RT
1	Ethanol	1127	1.039
2	n-Propanol	2566	1.706
Tot			



Ethanol 0.100 g/100 mL



n-Propanol 1.000 g/100 mL

CM

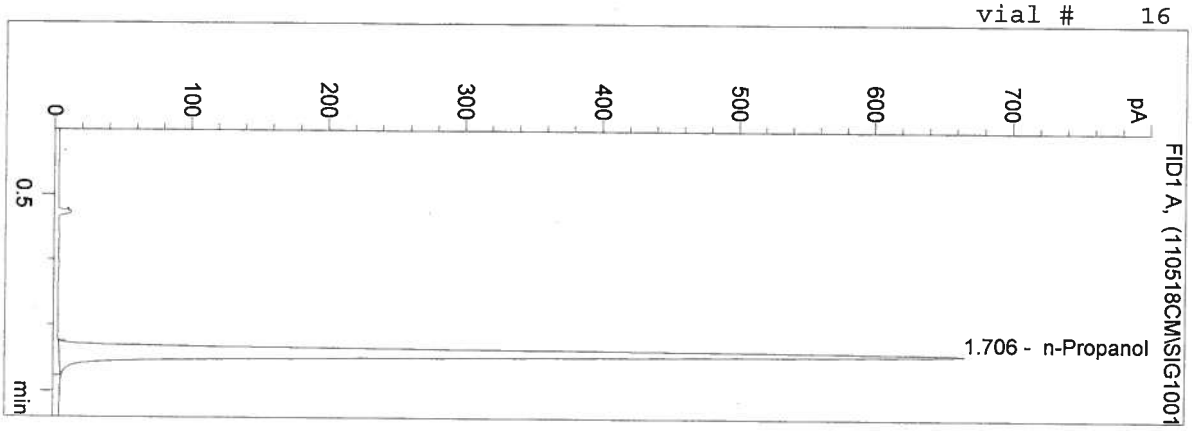
11021

WASHINGTON STATE TOXICOLOGY LABORATORY

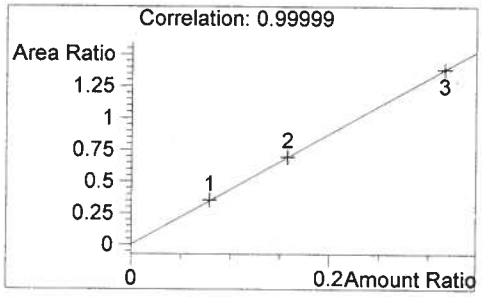
C:\HPCHEM\1\METHODS\SIMALC1.M
5/18/2011 10:26:49 AM
Instrument 1
DB-ALC1

NEG CTRL - CM
Christie Mitchell

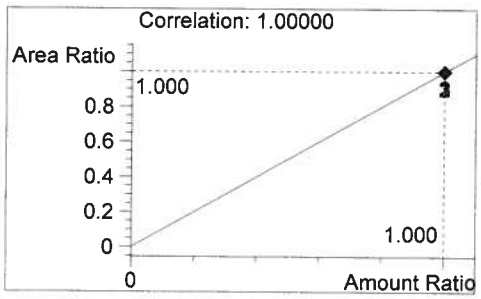
vial # 16



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2577	1.706
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

CM

11021

Sequence Parameters:

Operator:	Justin Knoy
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:	110519JK
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#A073849 - exp 07/2014

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 JK	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL - JK	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL - JK	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL - JK	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL JK	SIMALC1	1	Ctrl Samp		
10	Vial 10	11021-1	SIMALC1	1	Sample		
11	Vial 11	11021-2	SIMALC1	1	Sample		
12	Vial 12	11021-3	SIMALC1	1	Sample		
13	Vial 13	11021-4	SIMALC1	1	Sample		
14	Vial 14	11021-5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL JK	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL JK	SIMALC1	1	Ctrl Samp		
17	Vial 17	11022-1	SIMALC1	1	Sample		
18	Vial 18	11022-2	SIMALC1	1	Sample		
19	Vial 19	11022-3	SIMALC1	1	Sample		
20	Vial 20	11022-4	SIMALC1	1	Sample		
21	Vial 21	11022-5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL JK	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL JK	SIMALC1	1	Ctrl Samp		
24	Vial 24	11023-1	SIMALC1	1	Sample		
25	Vial 25	11023-2	SIMALC1	1	Sample		
26	Vial 26	11023-3	SIMALC1	1	Sample		
27	Vial 27	11023-4	SIMALC1	1	Sample		
28	Vial 28	11023-5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL JK	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL JK	SIMALC1	1	Ctrl Samp		
31	Vial 31	11024-1	SIMALC1	1	Sample		
32	Vial 32	11024-2	SIMALC1	1	Sample		

11021
11022
11023
11024

Sequence: C:\HPCHEM\1\SEQUENCE\JKQARUN1.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
33	Vial 33	11024-3	SIMALC1	1	Sample		
34	Vial 34	11024-4	SIMALC1	1	Sample		
35	Vial 35	11024-5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL JK	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL JK	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!

11021

11022

11023

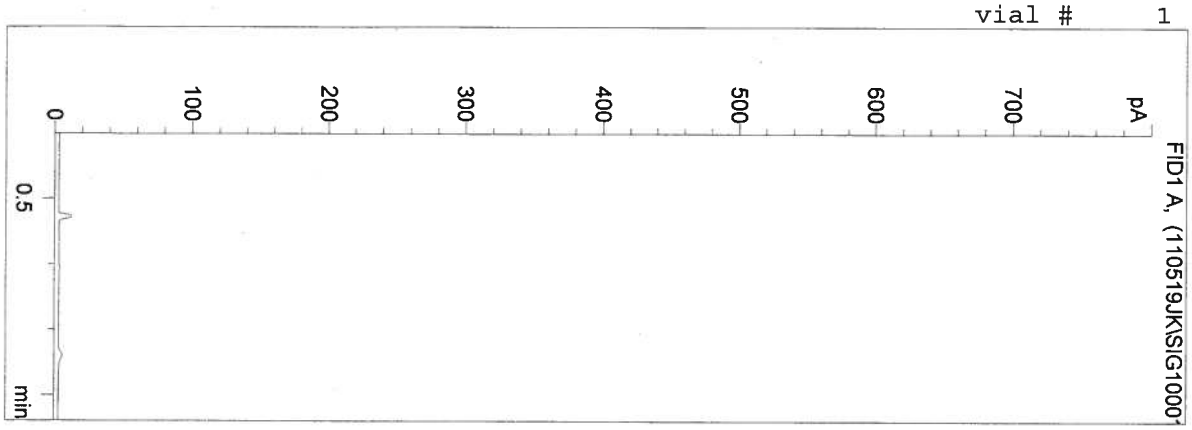
11024

WASHINGTON STATE TOXICOLOGY LABORATORY

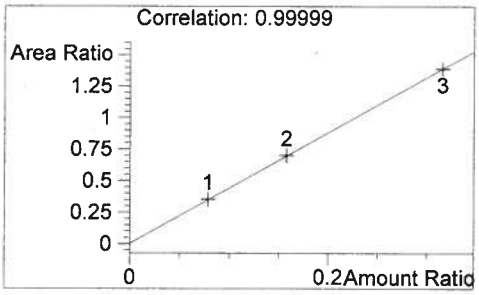
C:\HPCHEM\1\METHODS\SIMALC1.M
5/19/2011 10:32:54 AM
Instrument 1
DB-ALC1

BLANK
Justin Knoy

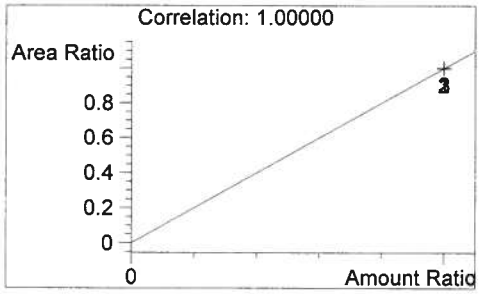
vial # 1



#	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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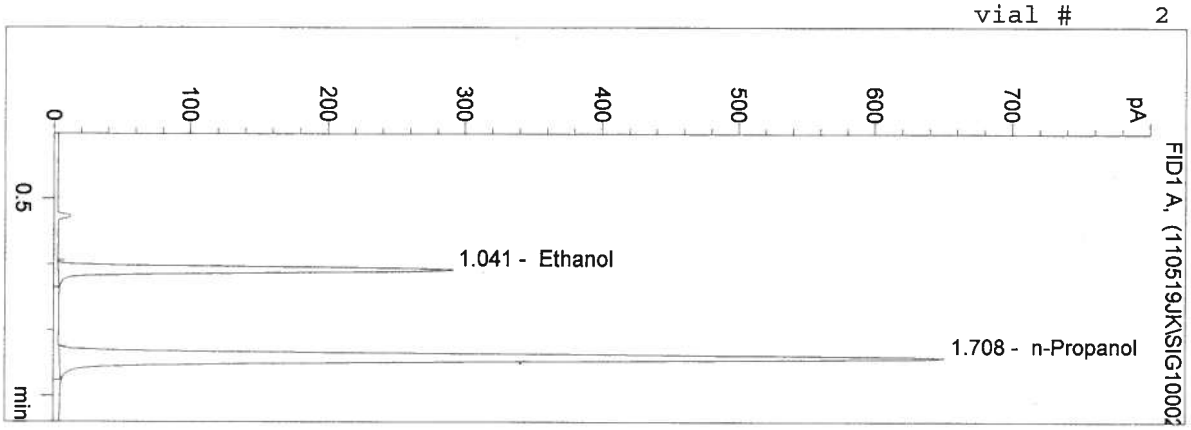
WASHINGTON STATE TOXICOLOGY LABORATORY

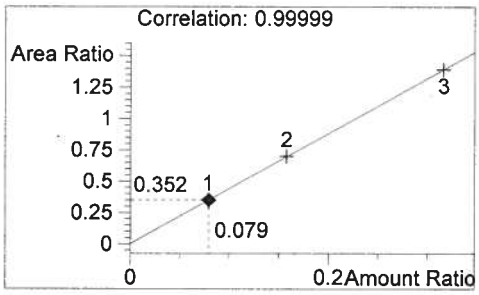
C:\HPCHEM\1\METHODS\SIMALC1.M
5/19/2011 10:35:59 AM
Instrument 1
DB-ALC1

0.079 CAL 1
Justin Knoy

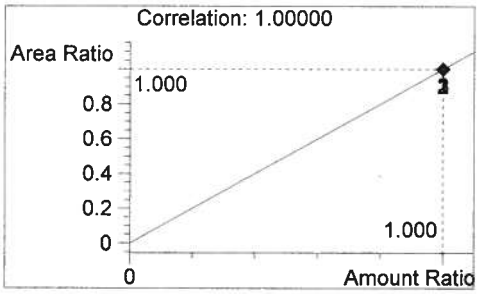
vial # 2



#	Compound	Area	RT
1	Ethanol	890	1.041
2	n-Propanol	2530	1.708
Tot			



Ethanol 0.079 g/100 mL



n-Propanol 1.000 g/100 mL

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WASHINGTON STATE TOXICOLOGY LABORATORY

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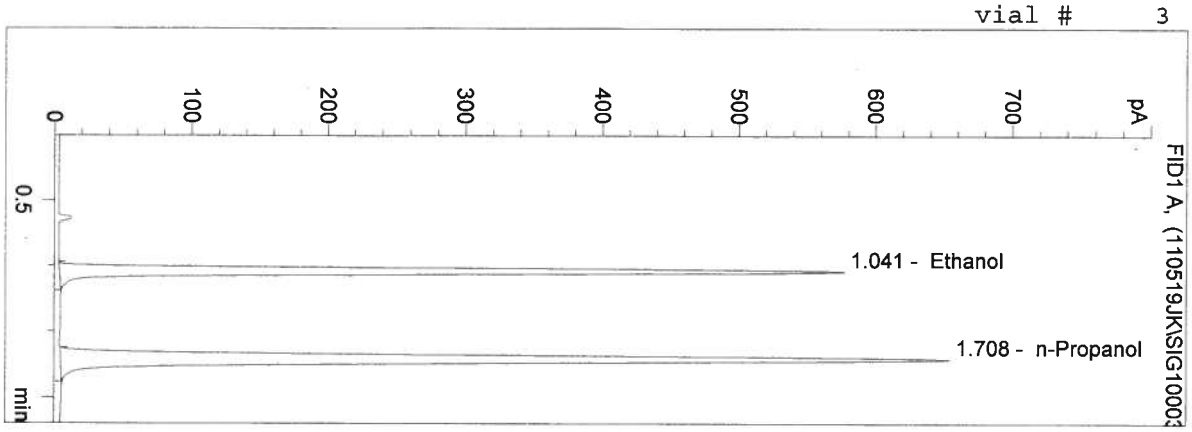
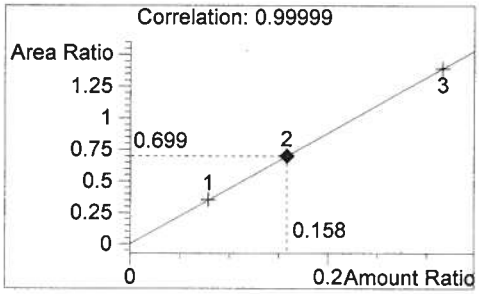
5/19/2011 10:39:03 AM
Instrument 1
DB-ALC1

0.158 CAL 2
Justin Knoy

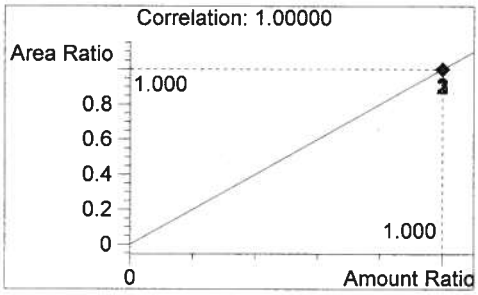
vial # 3



#	Compound	Area	RT
1	Ethanol	1780	1.041
2	n-Propanol	2546	1.708
Tot			



Ethanol 0.158 g/100 mL



n-Propanol 1.000 g/100 mL

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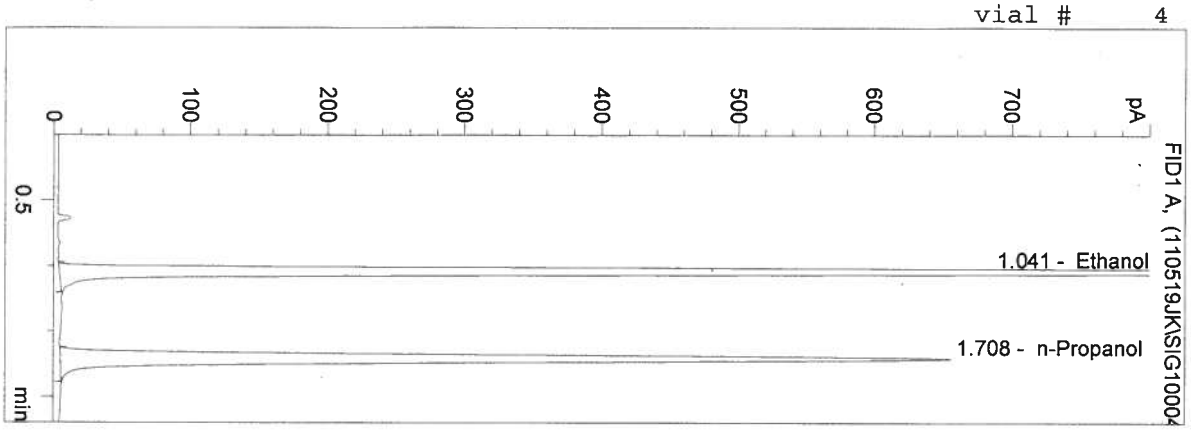
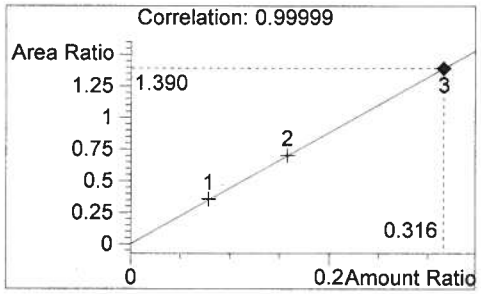
C:\HPCHEM\1\METHODS\SIMALC1.M
5/19/2011 10:42:08 AM
Instrument 1
DB-ALC1

0.316 CAL 3
Justin Knoy

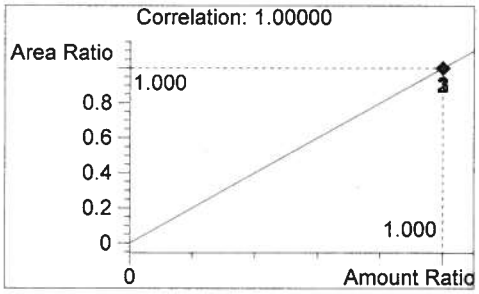
vial # 4



#	Compound	Area	RT
1	Ethanol	3543	1.041
2	n-Propanol	2549	1.708
Tot			



Ethanol 0.316 g/100 mL



n-Propanol 1.000 g/100 mL

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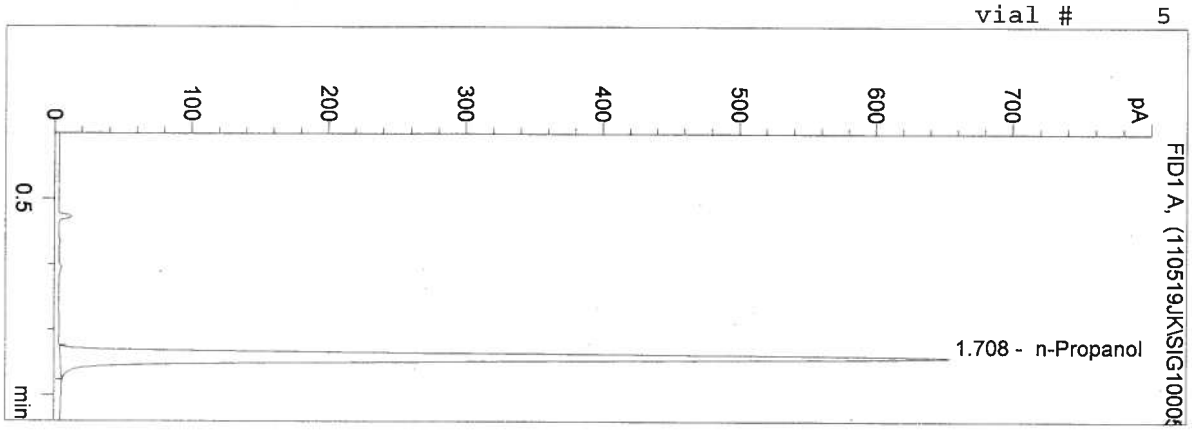
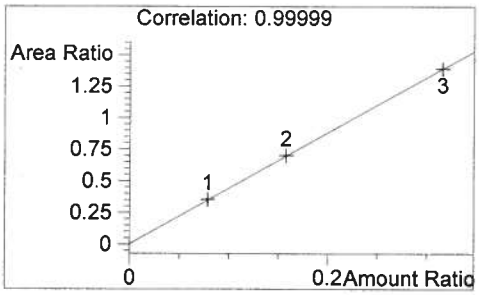
5/19/2011 10:45:13 AM
Instrument 1
DB-ALC1

NEG CTRL JK
Justin Knoy

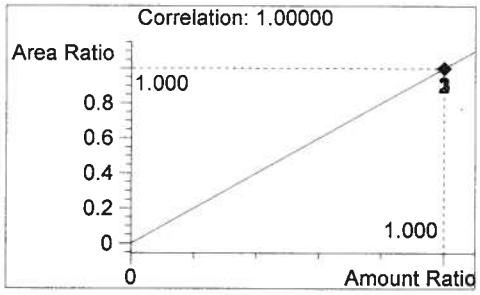
vial # 5



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2543	1.708
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

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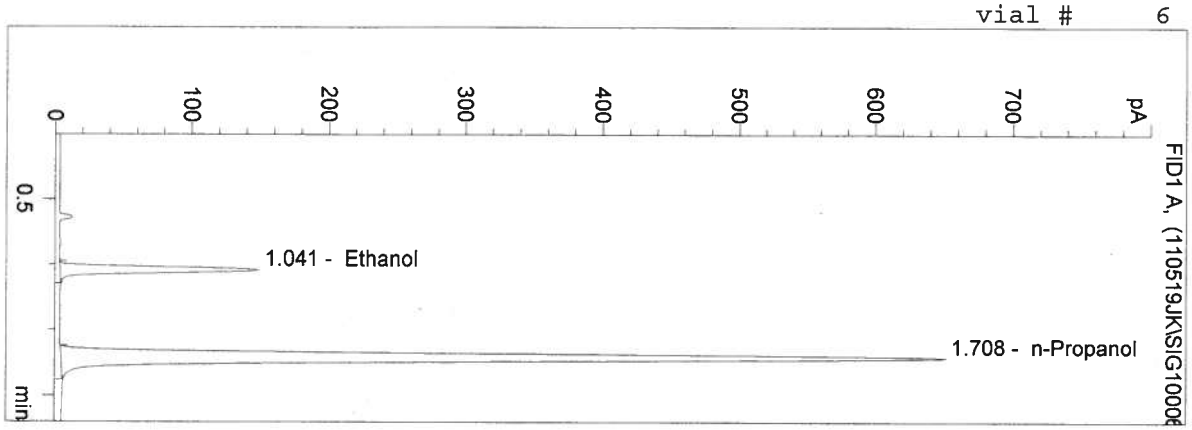
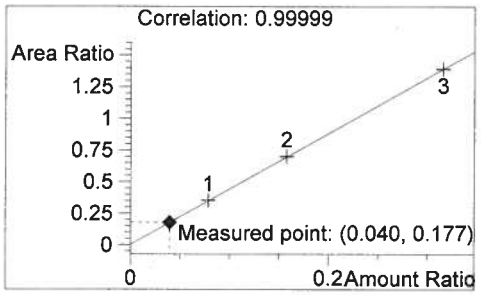
5/19/2011 10:48:18 AM
Instrument 1
DB-ALC1

0.04 CTRL - JK
Justin Knoy

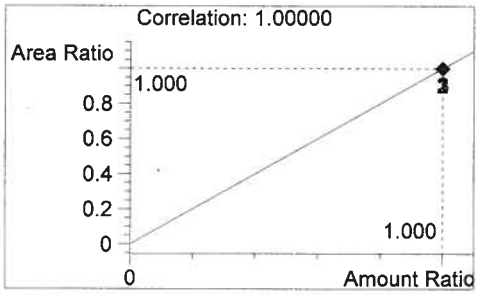
vial # 6



#	Compound	Area	RT
1	Ethanol	447	1.041
2	n-Propanol	2528	1.708
Tot			



Ethanol 0.040 g/100 mL



n-Propanol 1.000 g/100 mL

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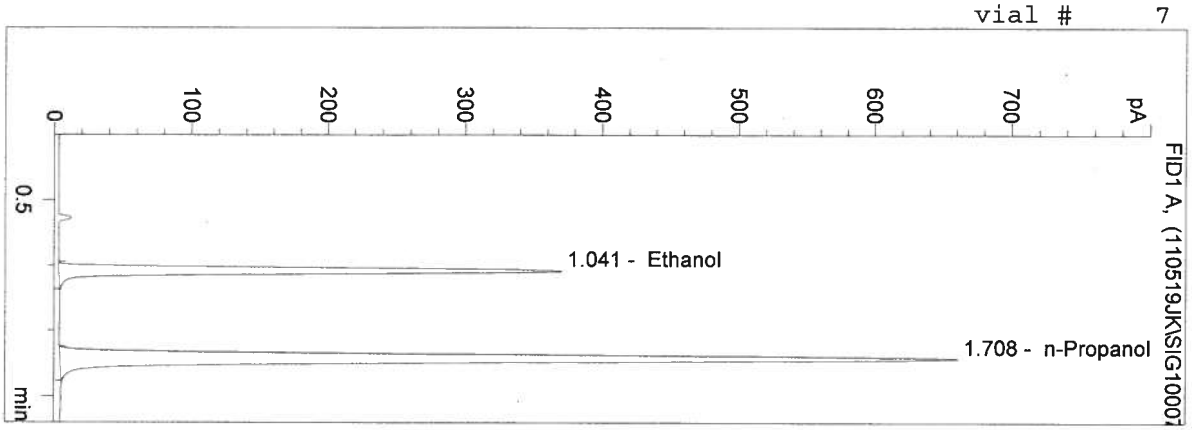
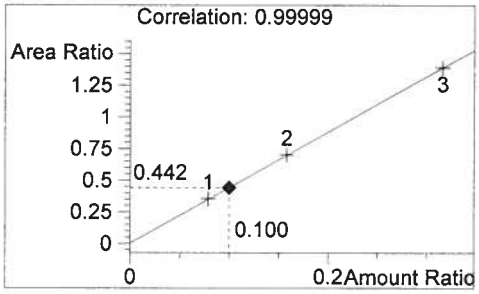
5/19/2011 10:51:23 AM
Instrument 1
DB-ALC1

0.10 CTRL - JK
Justin Knoy

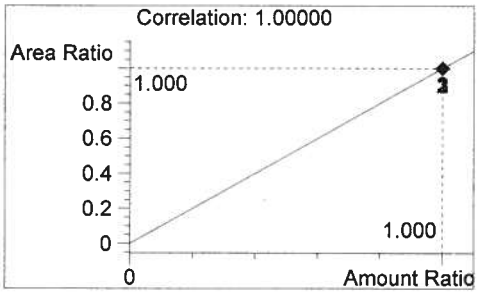
vial # 7



#	Compound	Area	RT
1	Ethanol	1134	1.041
2	n-Propanol	2566	1.708
Tot			



Ethanol 0.100 g/100 mL



n-Propanol 1.000 g/100 mL

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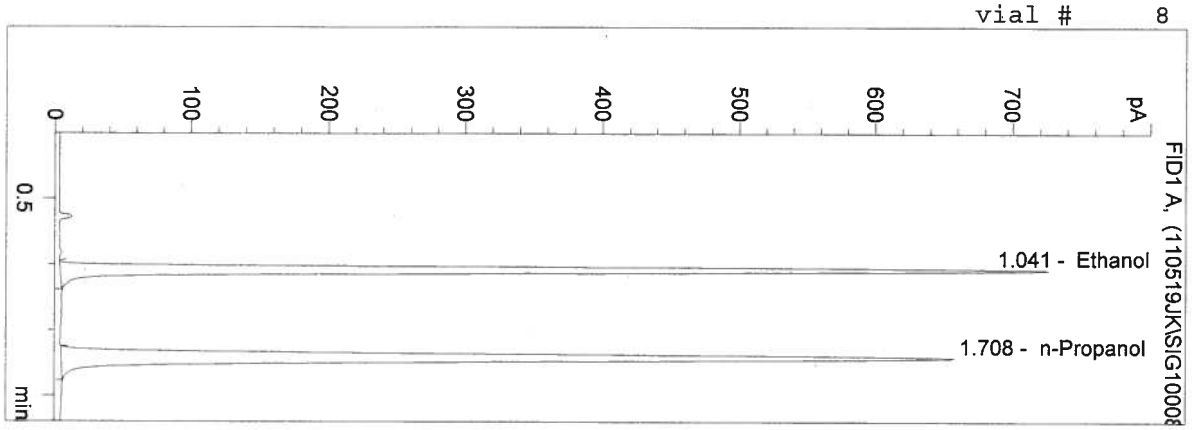
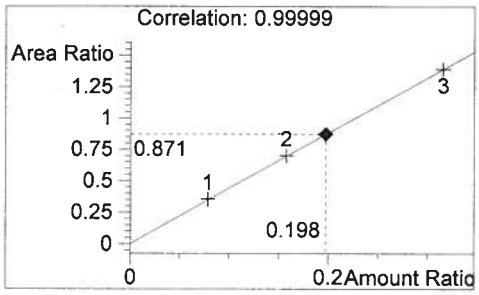
5/19/2011 10:54:27 AM
Instrument 1
DB-ALC1

0.20 CTRL - JK
Justin Knoy

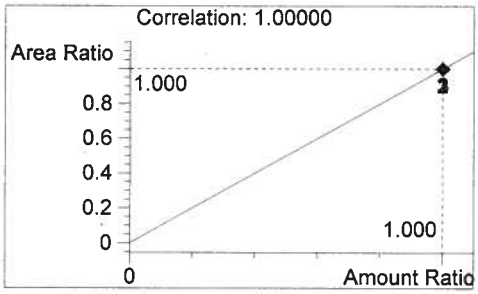
vial # 8



#	Compound	Area	RT
1	Ethanol	2225	1.041
2	n-Propanol	2553	1.708
Tot			



Ethanol 0.198 g/100 mL



n-Propanol 1.000 g/100 mL

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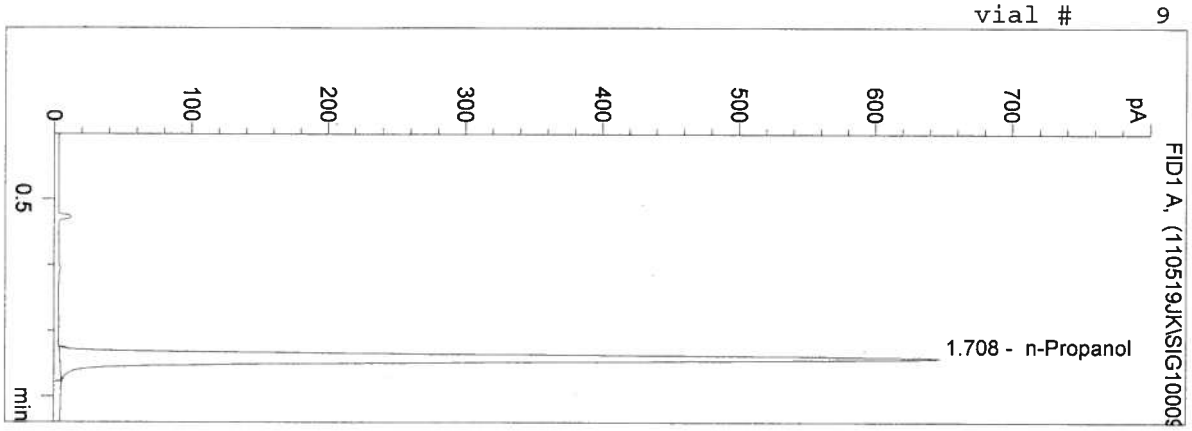
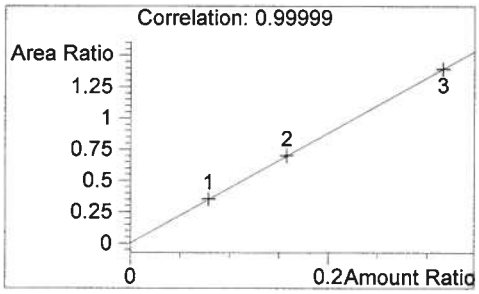
Instrument 1
DB-ALC1

NEG CTRL JK
Justin Knoy

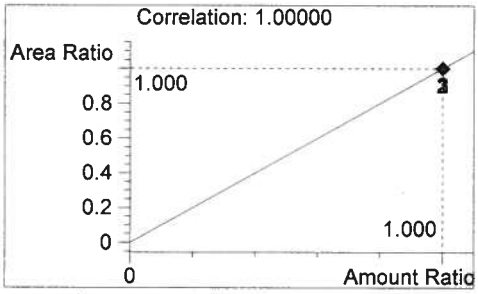
vial # 9



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2512	1.708
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

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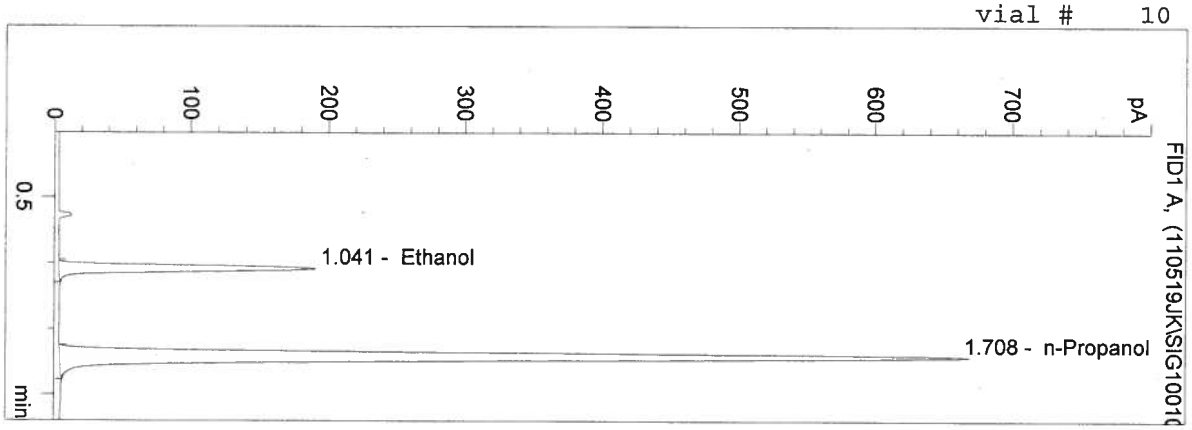
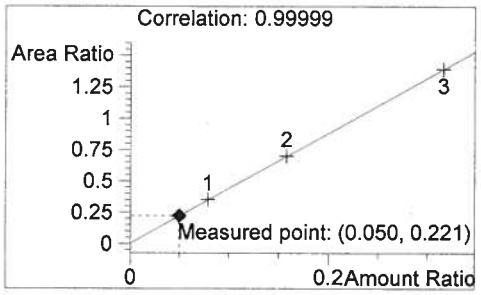
Instrument 1
DB-ALC1

11021-1
Justin Knoy

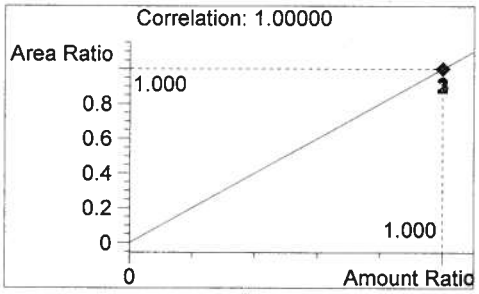
vial # 10



#	Compound	Area	RT
1	Ethanol	574	1.041
2	n-Propanol	2597	1.708
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

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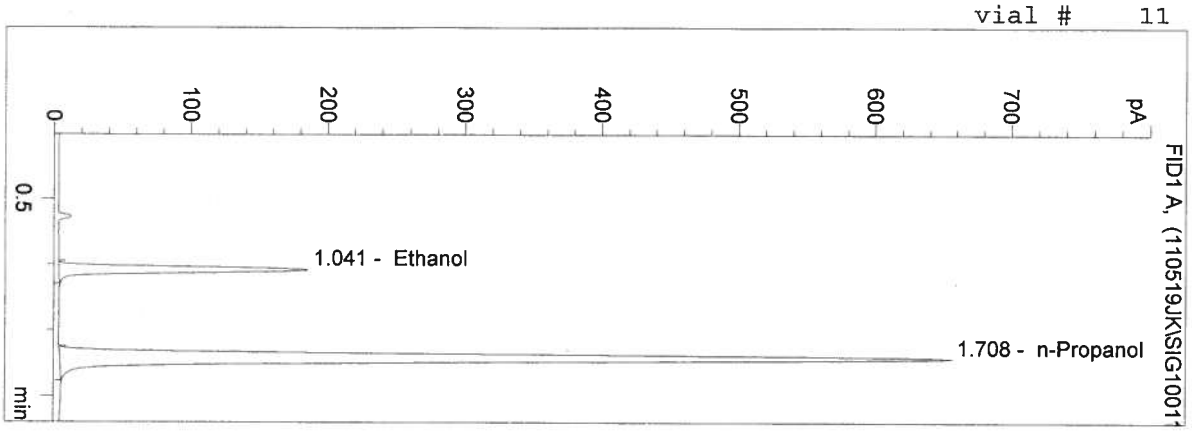
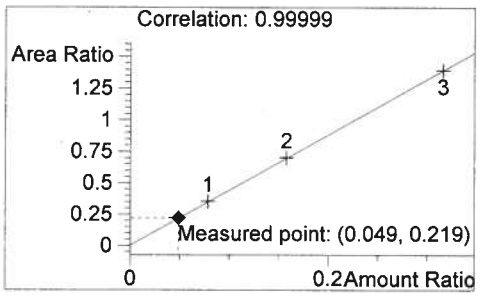
5/19/2011 11:03:42 AM
Instrument 1
DB-ALC1

11021-2
Justin Knoy

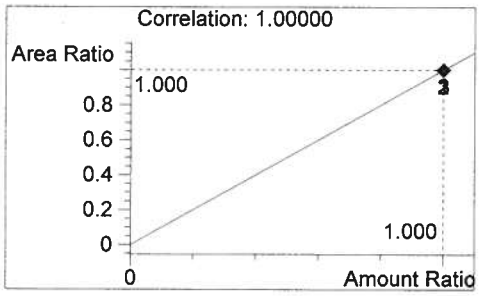
vial # 11



#	Compound	Area	RT
1	Ethanol	557	1.041
2	n-Propanol	2547	1.708
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

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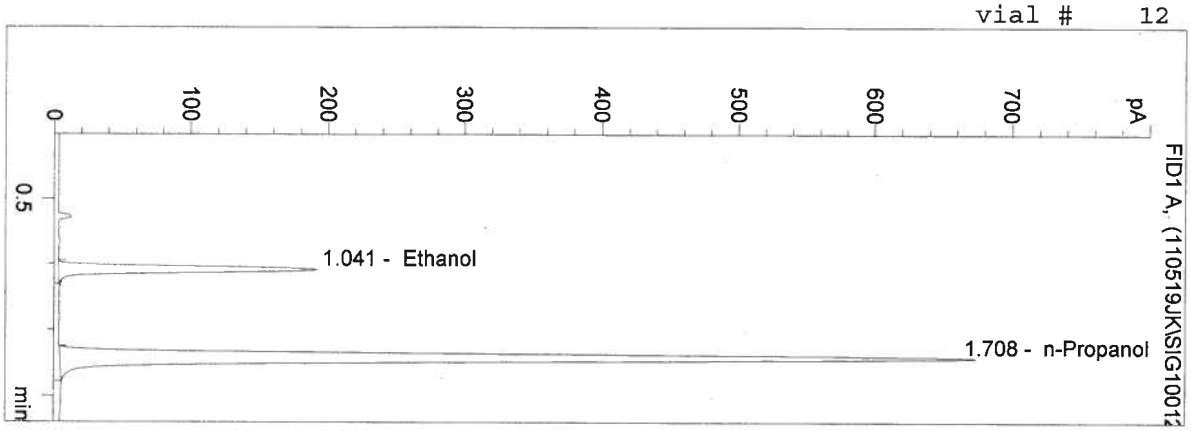
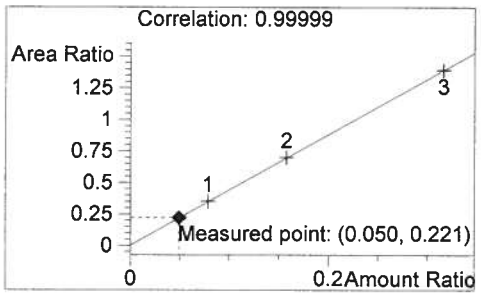
5/19/2011 11:06:47 AM
Instrument 1
DB-ALC1

11021-3
Justin Knoy

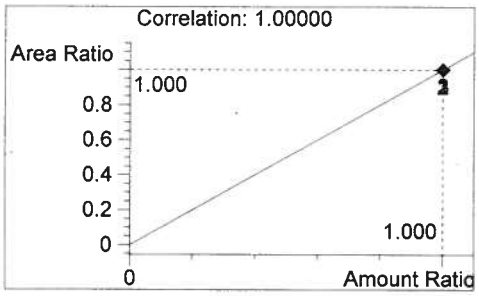
vial # 12



#	Compound	Area	RT
1	Ethanol	578	1.041
2	n-Propanol	2622	1.708
Tot			



Ethanol 0.050 g/100 mL



n-Propanol 1.000 g/100 mL

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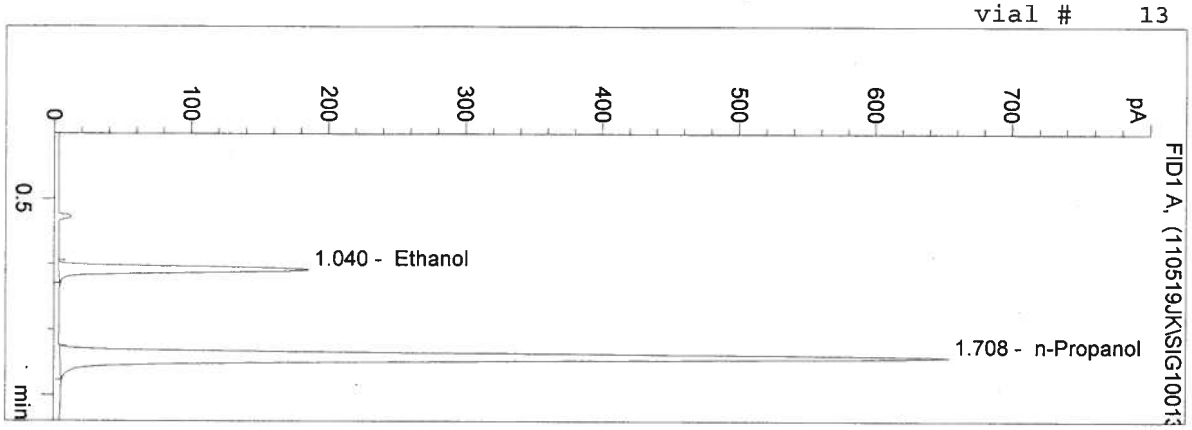
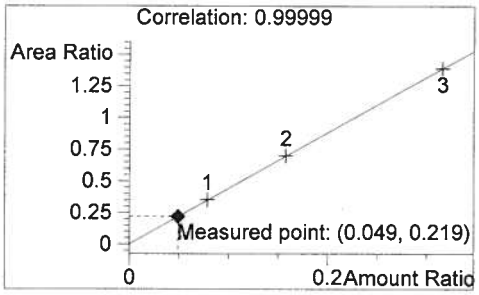
5/19/2011 11:09:51 AM
Instrument 1
DB-ALC1

11021-4
Justin Knoy

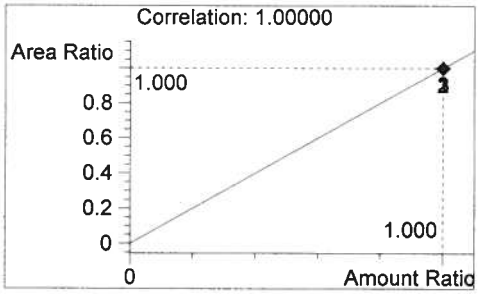
vial # 13



#	Compound	Area	RT
1	Ethanol	554	1.040
2	n-Propanol	2531	1.708
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

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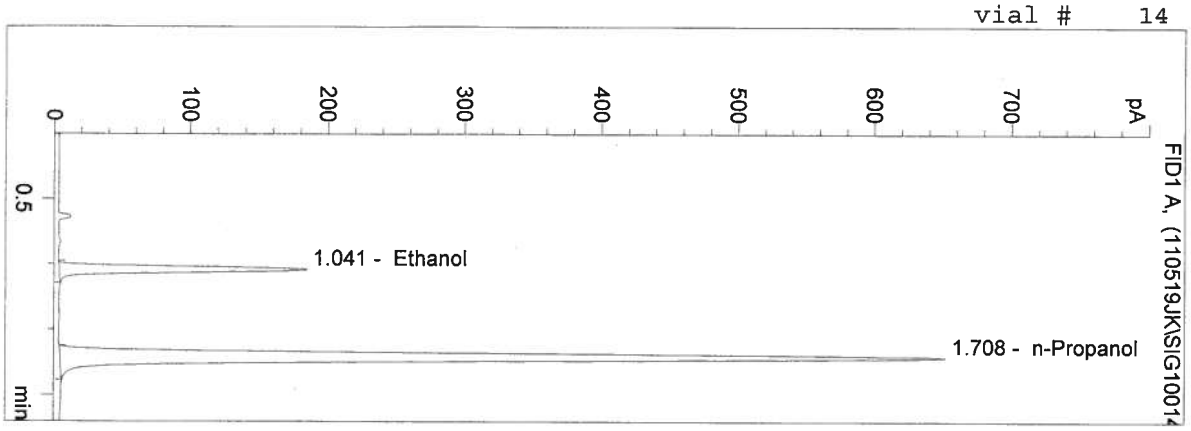
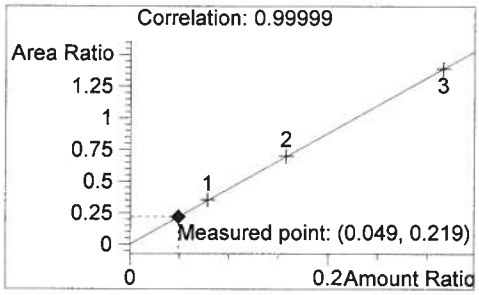
Instrument 1
DB-ALC1

11021-5
Justin Knoy

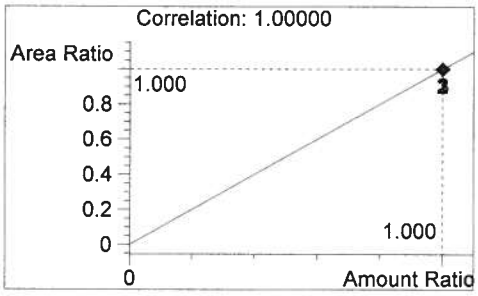
vial # 14



#	Compound	Area	RT
1	Ethanol	554	1.041
2	n-Propanol	2530	1.708
Tot			



Ethanol 0.049 g/100 mL



n-Propanol 1.000 g/100 mL

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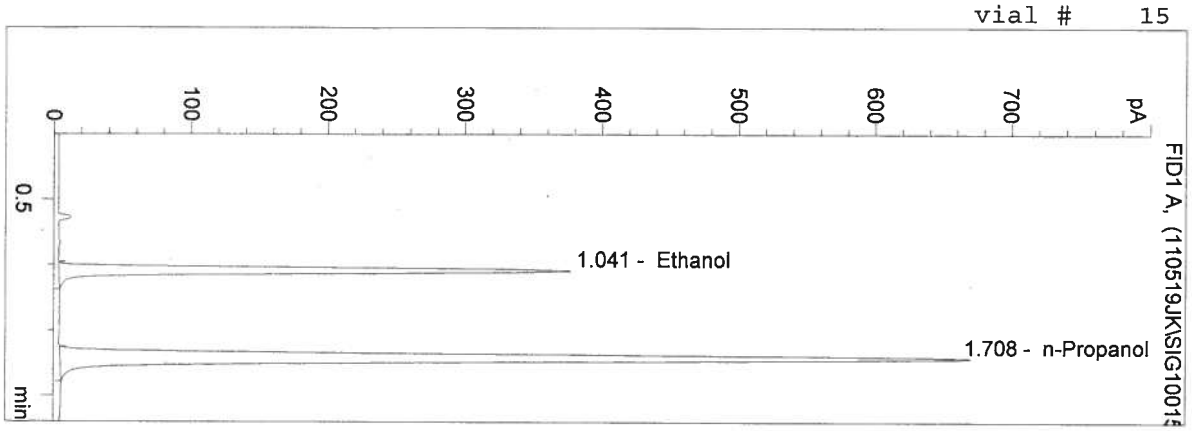
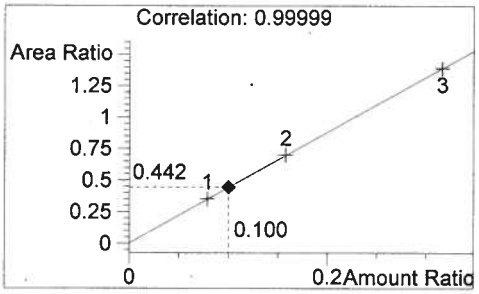
5/19/2011 11:16:01 AM
Instrument 1
DB-ALC1

0.10 CTRL JK
Justin Knoy

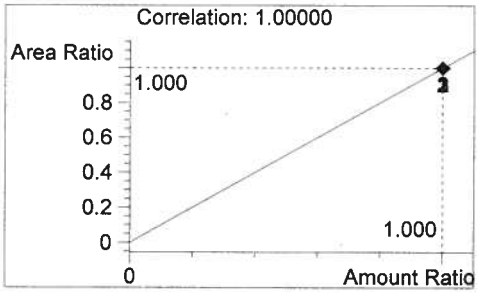
vial # 15



#	Compound	Area	RT
1	Ethanol	1150	1.041
2	n-Propanol	2599	1.708
Tot			



Ethanol 0.100 g/100 mL



n-Propanol 1.000 g/100 mL

11021

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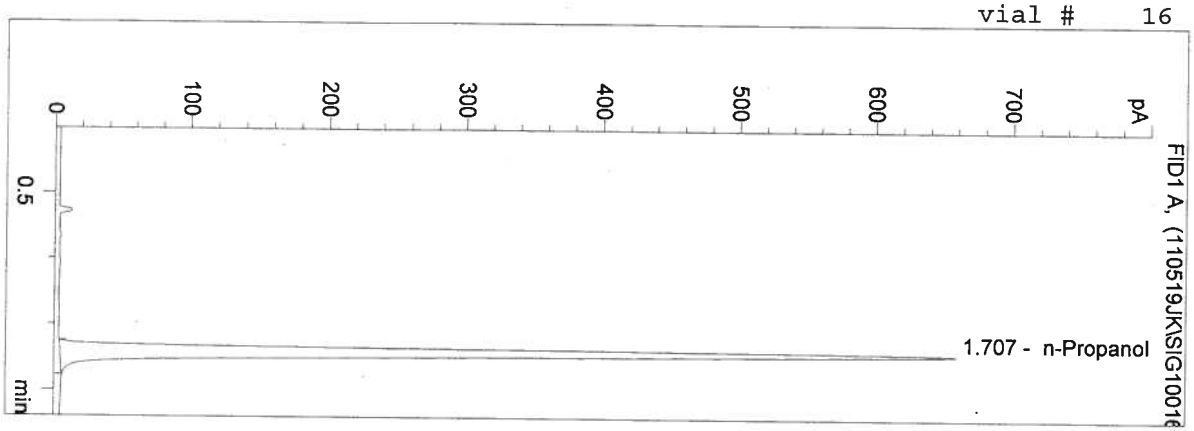
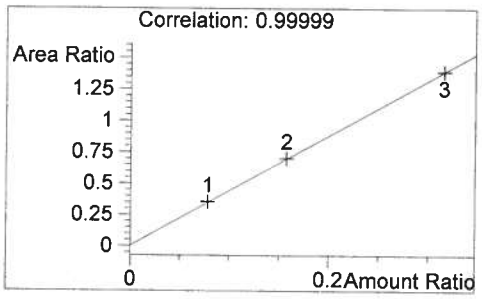
5/19/2011 11:19:06 AM
Instrument 1
DB-ALC1

NEG CTRL JK
Justin Knoy

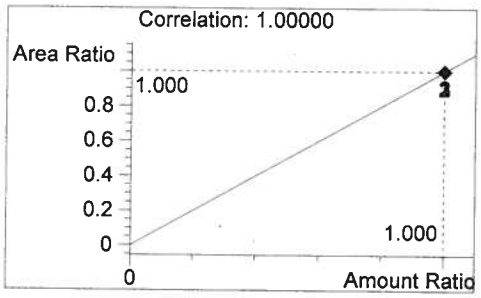
vial # 16



#	Compound	Area	RT
1	Ethanol	0	0.000
2	n-Propanol	2558	1.707
Tot			



Ethanol 0.000 g/100 mL



n-Propanol 1.000 g/100 mL

11021

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

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

Preparation Date: 5/17/11 Initials of Preparer: NV

Expiration Date: 5/17/12

Lot # of 200-proof Ethanol used in preparation: ZT0426

Date the 200-proof Ethanol bottle was opened: 5/10/11

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	✓	11021
QAP 0.08	22.4	18	✓	11022
QAP 0.10	28.1	18	✓	11023
QAP 0.15	42.0	18	✓	11024
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 ✓ 5/17/11 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: preparation utilized smaller volume flasks. NV 5/18/11

Approved use of smaller volume glassware. JMS 5/18/11

Analyst Signature 5/17/11 Date