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

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

QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

BATCH REPORT: 17052

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: 0.08 g/210L
DATE PREPARED: 08/07/2017
BATCH UNITS: g/100mL

IDENTITY: QAP Solution
PREPARED BY: Katie Harris

	KH	AG	RF
1	0.100	0.100	0.101
2	0.098	0.100	0.101
3	0.101	0.100	0.101
4	0.100	0.101	0.101
5	0.101	0.100	0.101
C	0.102	0.101	0.101

ETHANOL CONTROL INFORMATION
LOT NUMBER: FN08051301 EXPIRATION: 10/2018 CONCENTRATION: 0.10 g/100mL

RESULTS OF TESTING
AVERAGE SOLUTION CONCENTRATION: 0.1004 g/100mL
STANDARD DEVIATION: 0.00083
PRECISION CV (%): 0.82
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0816 g/210L**
EXPANDED UNCERTAINTY: ± 0.0018 (k=2, 95.45% confidence interval)

WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION

Brittany Thomas — Forensic Scientist Supervisor — 11/15/17 DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

ANALYST	NAME	SIGNATURE	DATE TESTED
KH	Katie Harris	Katie Harris	08/07/2017
AG	Andrew Gingras		08/16/2017
RF	Rebecca Flaherty		08/17/2017

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

SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Amanda M. Black Date: 11-30-17

Location: WSP-FLSB Seattle, WA Solution Batch Number: 17052

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

Comments:

Reviewer Signature: [signature] Date: 11-30-17

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

QAP Solution Batch #: 17052 **Date Prepared:** 8/7/2017

Analyst:	KH	AG	RF
Date Tested:	8/7/2017	8/16/2017	8/17/2017
Instrument:	HSGC #1	HSGC #1	HSGC #1
1	0.100	0.100	0.101
2	0.098	0.100	0.101
3	0.101	0.100	0.101
4	0.100	0.101	0.101
5	0.101	0.100	0.101
C	0.102	0.101	0.101

CV^2_{COA}	$CV^2_{QAP\ Solution}$	$CV^2_{Control}$	$CV^2_{Part\ Coef}$
0.0000084100	0.0000045351	0.0000108206	0.0001016326

Ethanol Control Lot #: FN08051301
Control Uncertainty (%): 0.29

Average Solution Concentration: 0.1004 g/100mL
Standard Deviation: 0.00083 g/100mL
Precision CV (%): 0.82
Equivalent Vapor Concentration: 0.0816 g/210L
Combined Standard Uncertainty (±): 0.0009 g/210L
Expanded Uncertainty (±): 0.0018 coverage factor (k) =2 (95.45% level of confidence)

Calculations performed by: Brittany Thomas (Name) Brittany Thomas (Signature) 11/8/17 (Date)

Calculations verified by: Amanda M. Black (Name) (Signature) 11-30-17 (Date) Method: Hand calculation

Review of batch file performed by: Brittany Thomas (Name) Brittany Thomas (Signature) 11/8/17 (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 Chandler		
Andrew Gingras	AG	11/9/17
Asa Louis		
Brittany Thomas		
Christie Mitchell-Mata		
Christopher Johnston		
David Nguyen		
Dawn Sklerov		
Elizabeth Wehner		
Justin Knoy		
Katie Harris	KH	11/8/17
Lyndsey Knoy		
Naziha Nuwayhid		
Rebecca Flaherty	RF	11.13.17

Batch # 17052 BT 11/8/17

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY

2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145

0.08 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 17052

I, Katie Harris, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and my responsibilities include the preparation and certification of alcohol solutions for use with evidential breath test instruments.

I possess the following qualifications: BS in Biochemistry and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 17052, was prepared in the Washington State Toxicology Laboratory on 8/7/2017. I tested this solution and 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 8/7/2018.

Seattle, WA

Katie Harris 11/8/17

Katie Harris Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY

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0.08 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 17052

I, Andrew Gingras, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and my responsibilities include the preparation and certification of alcohol solutions for use with evidential breath test instruments.

I possess the following qualifications: BS degree in Cell and Molecular Biology and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 17052, was prepared in the Washington State Toxicology Laboratory on 8/7/2017. I tested this solution and 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 8/7/2018.

Seattle, WA

11/2/2017

Andrew Gingras — Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY

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0.08 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 17052

I, Rebecca Flaherty, do certify under penalty of perjury that:

I am employed by the Washington State Toxicology Laboratory, and my responsibilities include the preparation and certification of alcohol solutions for use with evidential breath test instruments.

I possess the following qualifications: BS degrees in Biochemistry and Psychobiology and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 17052, was prepared in the Washington State Toxicology Laboratory on 8/7/2017. I tested this solution and 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 8/7/2018.

Seattle, WA

11.13.2017

Rebecca Flaherty — Date
Forensic Scientist

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

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

Preparation Date: 8/7/17 Expiration Date: 8/7/18 Initials of Preparer: KH

Lot # of 200-proof Ethanol used in preparation: 1FF0202

Date the 200-proof Ethanol bottle was opened: 5/9/17

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.

Environmental conditions verified as acceptable: ☑

Simulator Solution	Volume of Ethanol (mL)	Volume of Deionized Water (L)		Batch Number
QAP 0.04	11.2	18	☑	17051
QAP 0.08	22.4	18	☑	17052
QAP 0.10	28.1	18	☑	17053
QAP 0.15	42.1	18	☑	17054
QAP 0.20	56.1	18	☑	17055
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 ☑ 8/7/17 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:

Katie Harris
Analyst Signature

8/7/17
Date

~~17053~~ BT 11/8/17

BT 11/8/17 17052

Sequence: C:\HPCHEM\1\SEQUENCE\KHQAP2.S

Sequence Parameters:

Operator:	Katie Harris
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:	170807KH
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
CAL 1: 0.079 g/100mL - Lot: E0717-01 - X: 01/27/18
CAL 2: 0.158 g/100mL - Lot: E0717-02 - X: 01/27/18
CAL 3: 0.316 g/100mL - Lot: E0717-03 - X: 01/27/18

CTRL 1: 0.04 g/100mL - Lot: FN12181501 - X: 12/2020
CTRL 2: 0.10 g/100mL - Lot: FN08051301 - X: 10/2018
CTRL 3: 0.20 g/100mL - Lot: FN08101505 - X: 02/2021

n-Propanol ISTD - Lot: P0717 - X: 10/20/17

Calibration vials 1-9 filed with 17051

Diluter #2

Peaks present at RT 0.746 are extraneous and have no effect on ethanol + nprpanol results.
KH 11/8/17

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	CAL 1 (0.079)	SIMALC1	1	Calib		
3	Vial 3	CAL 2 (0.158)	SIMALC1	1	Calib		
4	Vial 4	CAL 3 (0.316)	SIMALC1	1	Calib		
5	Vial 5	NEG CTRL	SIMALC1	1	Ctrl Samp		
6	Vial 6	CTRL 1 (0.04)	SIMALC1	1	Ctrl Samp		
7	Vial 7	CTRL 2 (0.10)	SIMALC1	1	Ctrl Samp		
8	Vial 8	CTRL 3 (0.20)	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL	SIMALC1	1	Ctrl Samp		
10	Vial 10	17051-1	SIMALC1	1	Sample		
11	Vial 11	17051-2	SIMALC1	1	Sample		
12	Vial 12	17051-3	SIMALC1	1	Sample		
13	Vial 13	17051-4	SIMALC1	1	Sample		
14	Vial 14	17051-5	SIMALC1	1	Sample		
15	Vial 15	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL	SIMALC1	1	Ctrl Samp		
17	Vial 17	17052-1	SIMALC1	1	Sample		
18	Vial 18	17052-2	SIMALC1	1	Sample		
19	Vial 19	17052-3	SIMALC1	1	Sample		
20	Vial 20	17052-4	SIMALC1	1	Sample		
21	Vial 21	17052-5	SIMALC1	1	Sample		
22	Vial 22	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		

17052
KH
11/8/17

KH KH

Sequence: C:\HPCHEM\1\SEQUENCE\KHQAP2.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
23	Vial 23	NEG CTRL	SIMALC1	1	Ctrl Samp		
24	Vial 24	17053-1	SIMALC1	1	Sample		
25	Vial 25	17053-2	SIMALC1	1	Sample		
26	Vial 26	17053-3	SIMALC1	1	Sample		
27	Vial 27	17053-4	SIMALC1	1	Sample		
28	Vial 28	17053-5	SIMALC1	1	Sample		
29	Vial 29	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL	SIMALC1	1	Ctrl Samp		
31	Vial 31	17054-1	SIMALC1	1	Sample		
32	Vial 32	17054-2	SIMALC1	1	Sample		
33	Vial 33	17054-3	SIMALC1	1	Sample		
34	Vial 34	17054-4	SIMALC1	1	Sample		
35	Vial 35	17054-5	SIMALC1	1	Sample		
36	Vial 36	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL	SIMALC1	1	Ctrl Samp		
38	Vial 38	17055-1	SIMALC1	1	Sample		
39	Vial 39	17055-2	SIMALC1	1	Sample		
40	Vial 40	17055-3	SIMALC1	1	Sample		
41	Vial 41	17055-4	SIMALC1	1	Sample		
42	Vial 42	17055-5	SIMALC1	1	Sample		
43	Vial 43	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
44	Vial 44	NEG CTRL	SIMALC1	1	Ctrl Samp		

Calibration Part:

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

Sequence Table (Back Injector):

No entries - empty table!

BT 11/8/17

~~17053~~

17052

BT 11/8/17

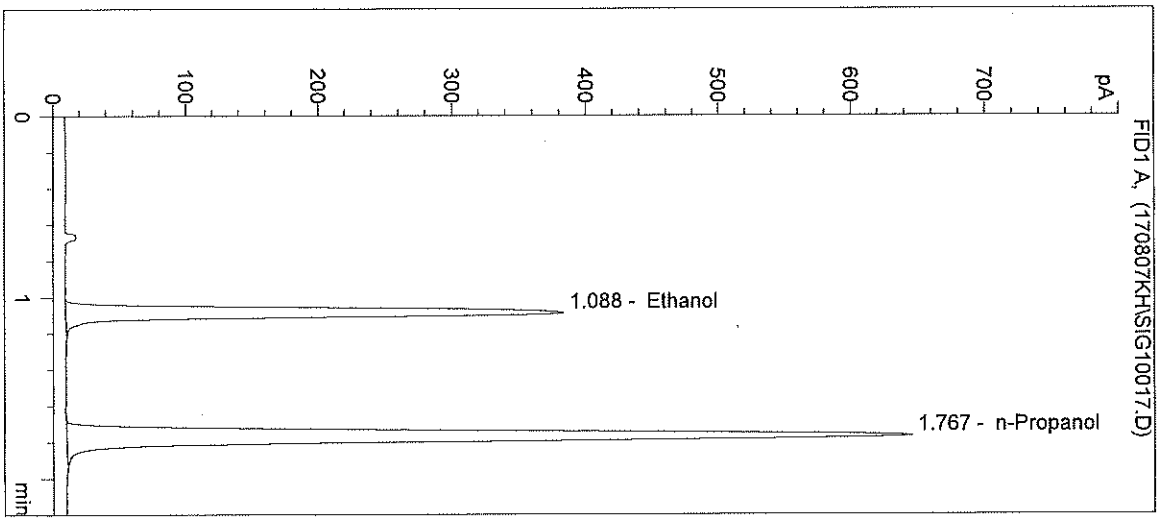
KH

KH

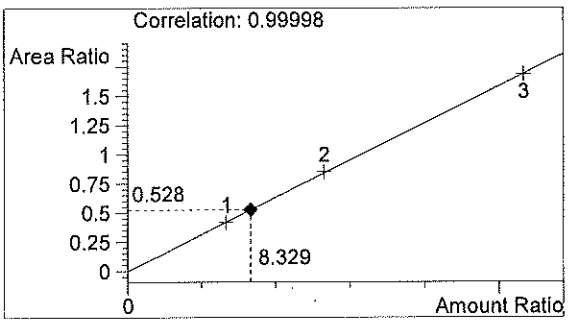
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/7/2017 11:08:31 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

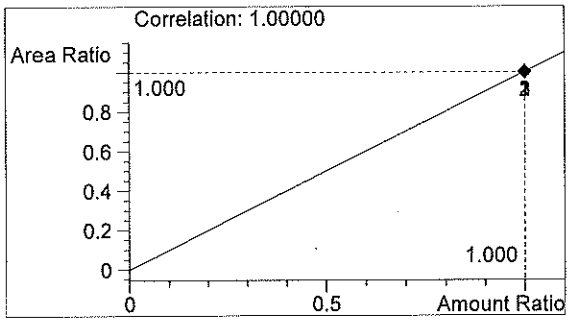
Sample Name: 17052-1
Operator: Katie Harris
Location: Vial 17



#	Compound	Peak Area	RT (min)
1	Ethanol	1275	1.088
2	n-Propanol	2413	1.767



Ethanol 0.100 g/100mL



n-Propanol 0.012 g/100mL

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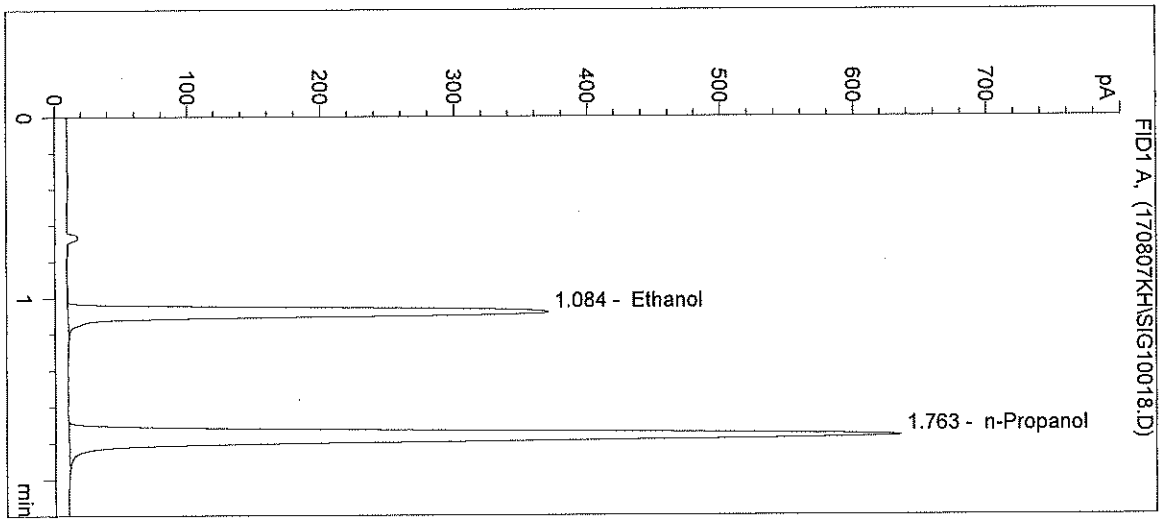
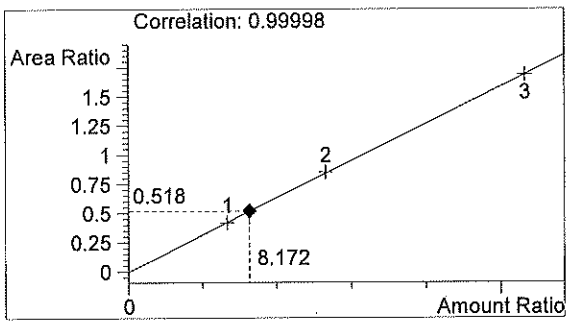
Inj. Date: 8/7/2017 11:11:45 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

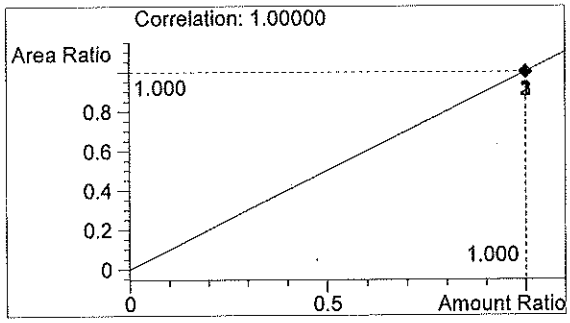
Sample Name: 17052-2
Operator: Katie Harris
Location: Vial 18



#	Compound	Peak Area	RT (min)
1	Ethanol	1219	1.084
2	n-Propanol	2351	1.763



Ethanol 0.098 g/100mL

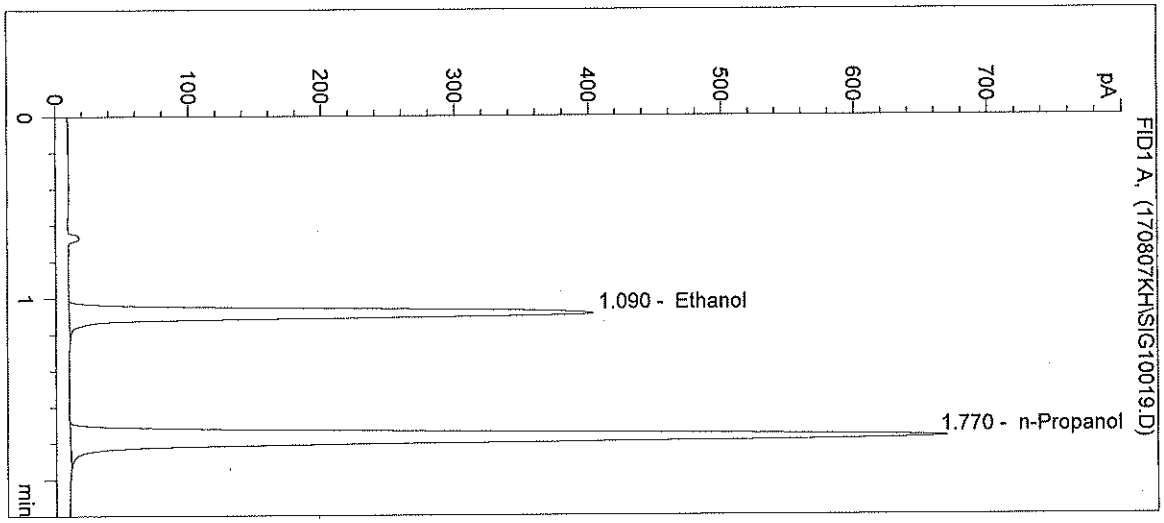


n-Propanol 0.012 g/100mL

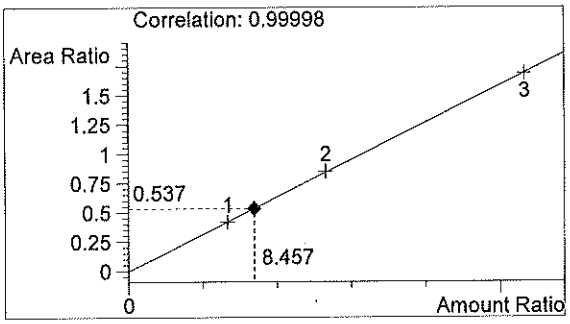
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/7/2017 11:14:58 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

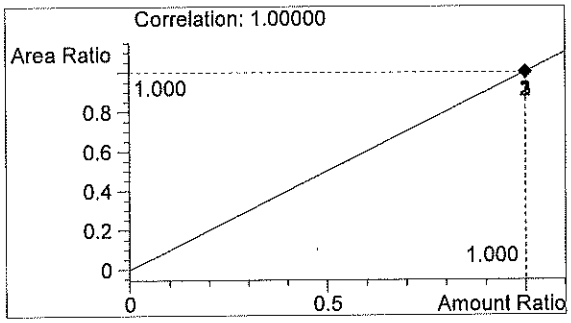
Sample Name: 17052-3
Operator: Katie Harris
Location: Vial 19



#	Compound	Peak Area	RT (min)
1	Ethanol	1355	1.090
2	n-Propanol	2526	1.770



Ethanol 0.101 g/100mL



n-Propanol 0.012 g/100mL

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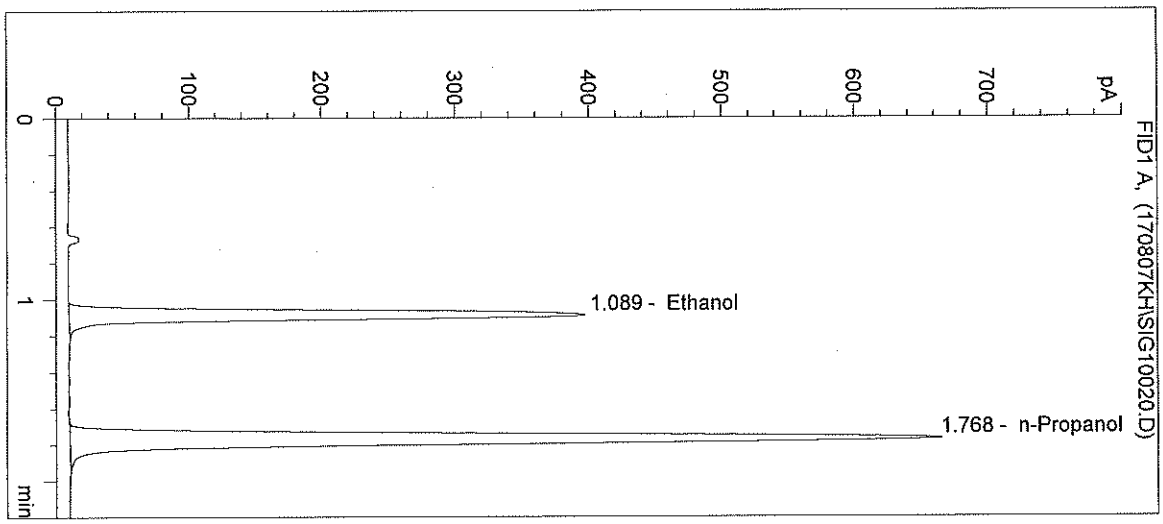
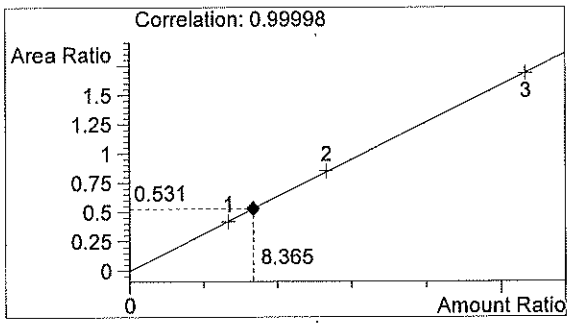
Inj. Date: 8/7/2017 11:18:11 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

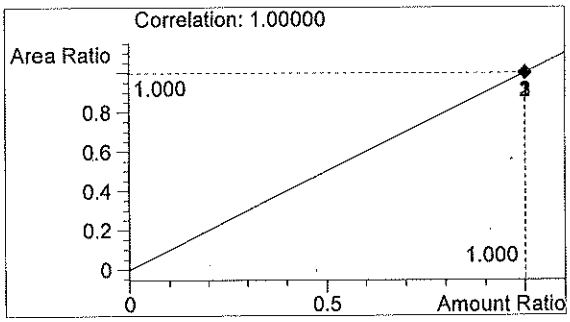
Sample Name: 17052-4
Operator: Katie Harris
Location: Vial 20



#	Compound	Peak Area	RT (min)
1	Ethanol	1326	1.089
2	n-Propanol	2498	1.768



Ethanol 0.100 g/100mL



n-Propanol 0.012 g/100mL

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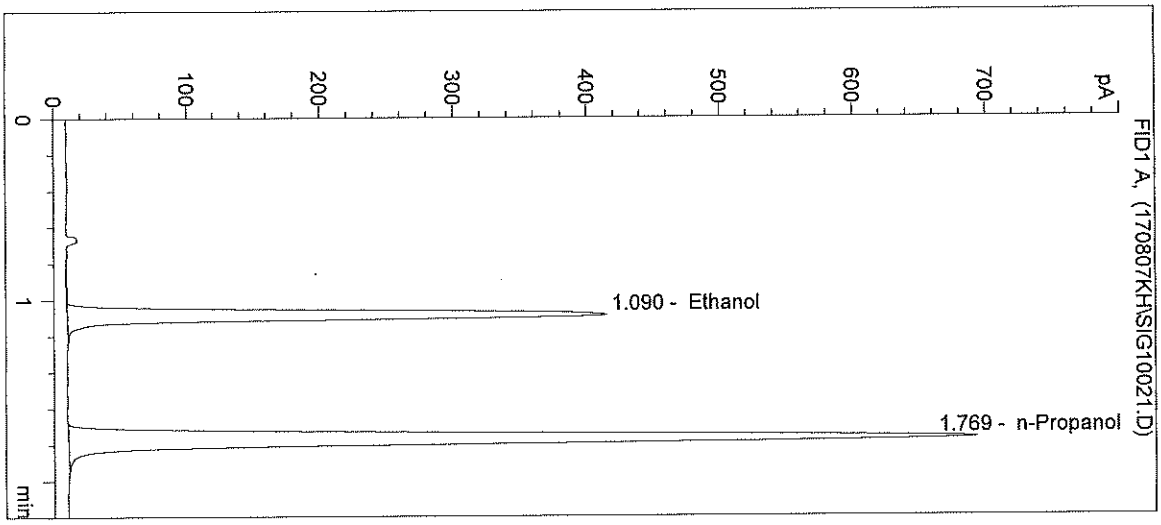
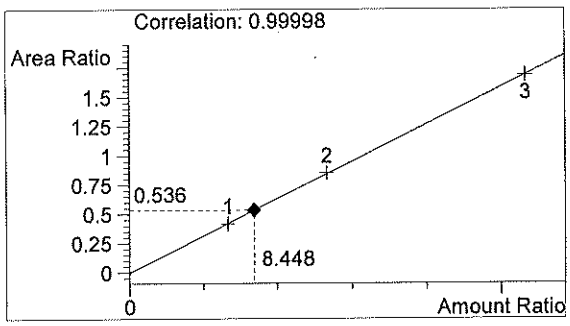
Inj. Date: 8/7/2017 11:21:24 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

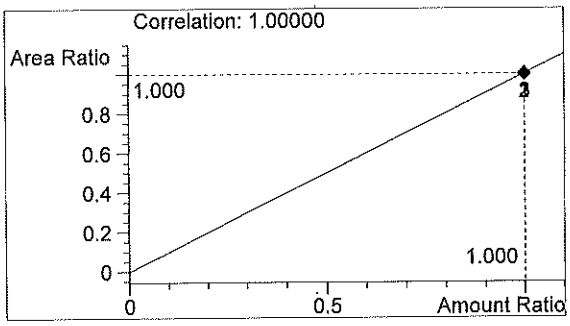
Sample Name: 17052-5
Operator: Katie Harris
Location: Vial 21



#	Compound	Peak Area	RT (min)
1	Ethanol	1399	1.090
2	n-Propanol	2611	1.769



Ethanol 0.101 g/100mL



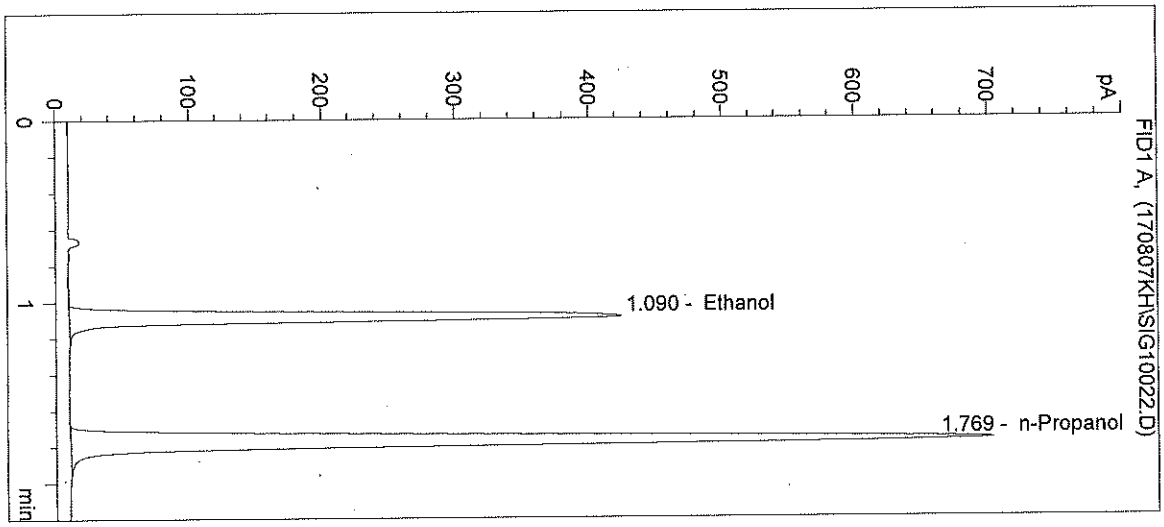
n-Propanol 0.012 g/100mL

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

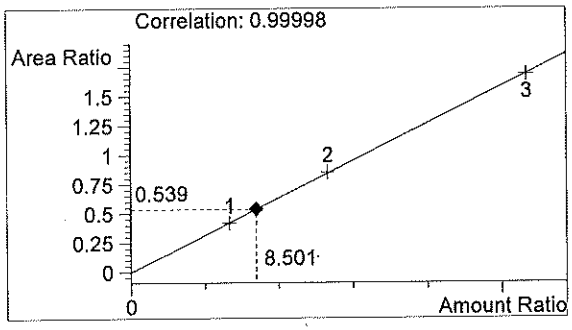
Inj. Date: 8/7/2017 11:24:37 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: POS CTRL: 0.10 g/100mL
17052

Sample Name: POS CTRL (0.10)
Operator: Katie Harris
Location: Vial 22

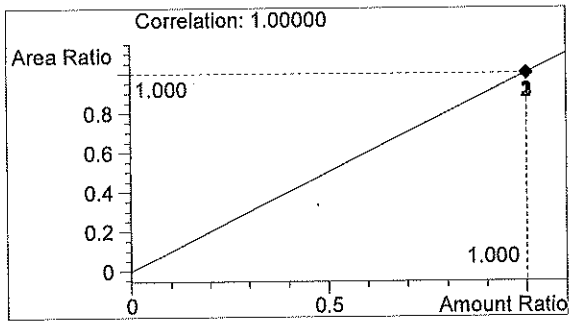
->



#	Compound	Peak Area	RT (min)
1	Ethanol	1432	1.090
2	n-Propanol	2655	1.769



Ethanol 0.102 g/100mL

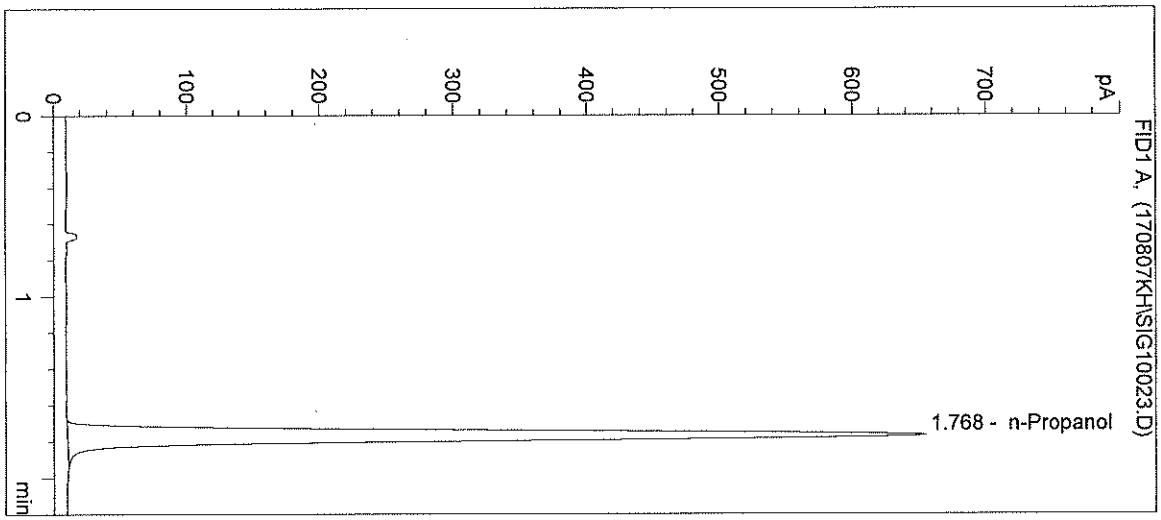


n-Propanol 0.012 g/100mL

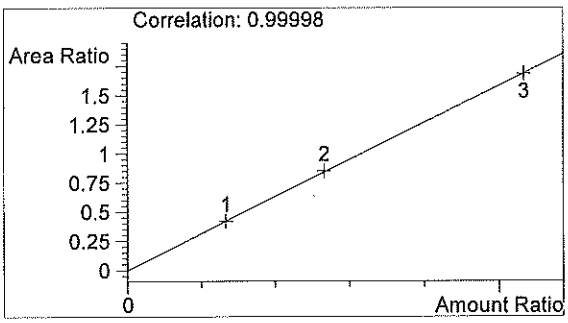
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/7/2017 11:27:51 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17052

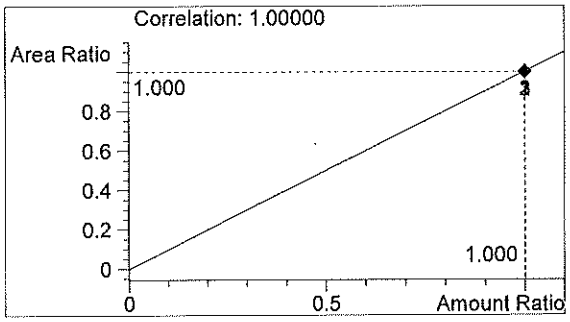
Sample Name: NEG CTRL
Operator: Katie Harris
Location: Vial 23



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2453	1.768



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

Sequence Parameters:

Operator:	Andrew Gingras
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:	170816AG
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:

CAL 1: 0.079 g/100mL - Lot: E0717-01 - X: 01/27/18
CAL 2: 0.158 g/100mL - Lot: E0717-02 - X: 01/27/18
CAL 3: 0.316 g/100mL - Lot: E0717-03 - X: 01/27/18

CTRL 1: 0.04 g/100mL - Lot: FN12181501 - X: 12/2020
CTRL 2: 0.10 g/100mL - Lot: FN08051301 - X: 10/2018
CTRL 3: 0.20 g/100mL - Lot: FN08101505 - X: 02/2021

n-Propanol ISTD - Lot: P0717 - X: 10/20/17

Calibration vials 1-9 filed with 17051

Diluter #1

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	CAL 1 (0.079)	SIMALC1	1	Calib		
3	Vial 3	CAL 2 (0.158)	SIMALC1	1	Calib		
4	Vial 4	CAL 3 (0.316)	SIMALC1	1	Calib		
5	Vial 5	NEG CTRL	SIMALC1	1	Ctrl Samp		
6	Vial 6	CTRL 1 (0.04)	SIMALC1	1	Ctrl Samp		
7	Vial 7	CTRL 2 (0.10)	SIMALC1	1	Ctrl Samp		
8	Vial 8	CTRL 3 (0.20)	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL	SIMALC1	1	Ctrl Samp		
10	Vial 10	17051-1	SIMALC1	1	Sample		
11	Vial 11	17051-2	SIMALC1	1	Sample		
12	Vial 12	17051-3	SIMALC1	1	Sample		
13	Vial 13	17051-4	SIMALC1	1	Sample		
14	Vial 14	17051-5	SIMALC1	1	Sample		
15	Vial 15	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL	SIMALC1	1	Ctrl Samp		
17	Vial 17	17052-1	SIMALC1	1	Sample		
18	Vial 18	17052-2	SIMALC1	1	Sample		
19	Vial 19	17052-3	SIMALC1	1	Sample		
20	Vial 20	17052-4	SIMALC1	1	Sample		
21	Vial 21	17052-5	SIMALC1	1	Sample		
22	Vial 22	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		

17052

BT 11/8/17

Sequence: C:\HPCHEM\1\SEQUENCE\KHQAP2.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
23	Vial 23	NEG CTRL	SIMALC1	1	Ctrl Samp		
24	Vial 24	17053-1	SIMALC1	1	Sample		
25	Vial 25	17053-2	SIMALC1	1	Sample		
26	Vial 26	17053-3	SIMALC1	1	Sample		
27	Vial 27	17053-4	SIMALC1	1	Sample		
28	Vial 28	17053-5	SIMALC1	1	Sample		
29	Vial 29	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL	SIMALC1	1	Ctrl Samp		
31	Vial 31	17054-1	SIMALC1	1	Sample		
32	Vial 32	17054-2	SIMALC1	1	Sample		
33	Vial 33	17054-3	SIMALC1	1	Sample		
34	Vial 34	17054-4	SIMALC1	1	Sample		
35	Vial 35	17054-5	SIMALC1	1	Sample		
36	Vial 36	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL	SIMALC1	1	Ctrl Samp		
38	Vial 38	17055-1	SIMALC1	1	Sample		
39	Vial 39	17055-2	SIMALC1	1	Sample		
40	Vial 40	17055-3	SIMALC1	1	Sample		
41	Vial 41	17055-4	SIMALC1	1	Sample		
42	Vial 42	17055-5	SIMALC1	1	Sample		
43	Vial 43	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
44	Vial 44	NEG CTRL	SIMALC1	1	Ctrl Samp		

Calibration Part:

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

Sequence Table (Back Injector):

No entries - empty table!

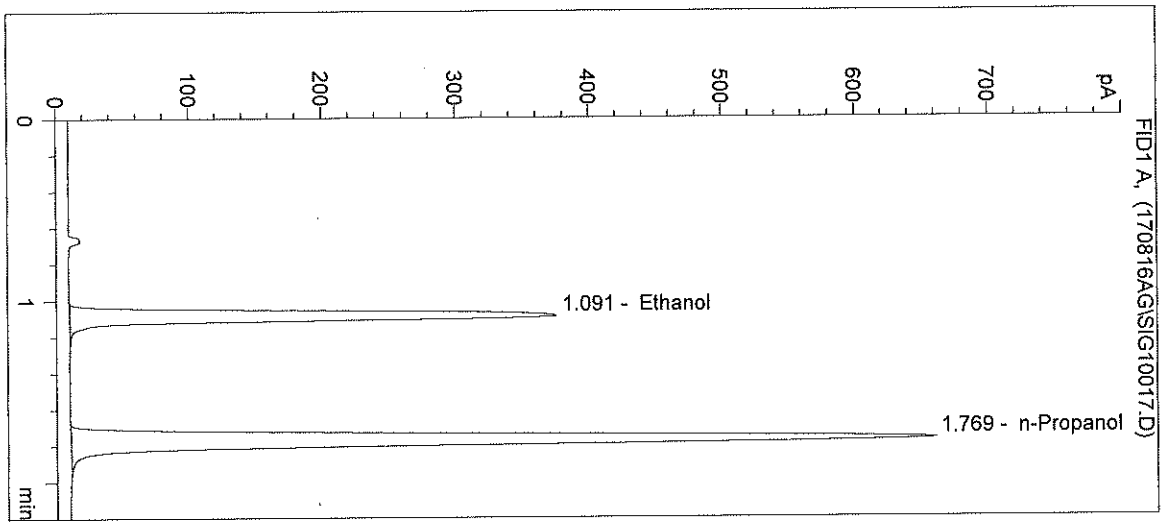
17052

BT
11/8/17

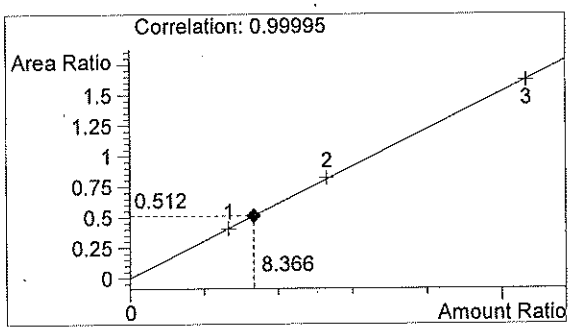
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/16/2017 8:30:31 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

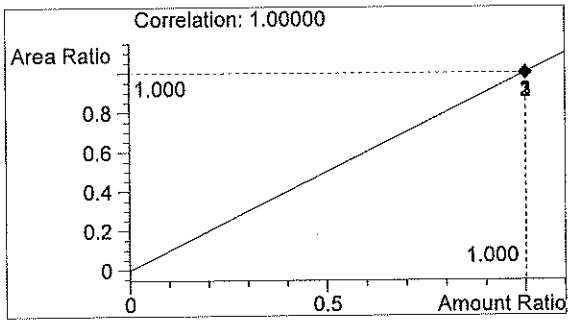
Sample Name: 17052-1
Operator: Andrew Gingras
Location: Vial 17



#	Compound	Peak Area	RT (min)
1	Ethanol	1308	1.091
2	n-Propanol	2554	1.769



Ethanol 0.100 g/100mL

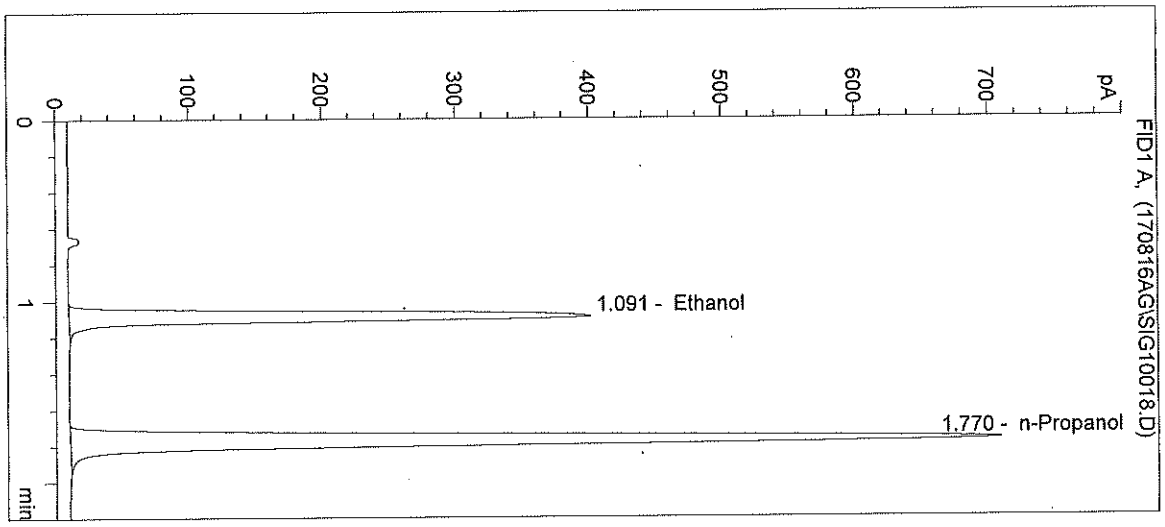


n-Propanol 0.012 g/100mL

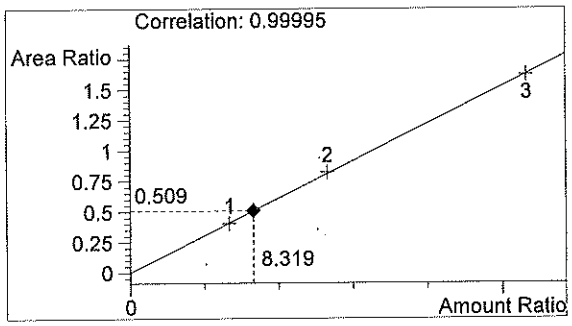
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/16/2017 8:33:44 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

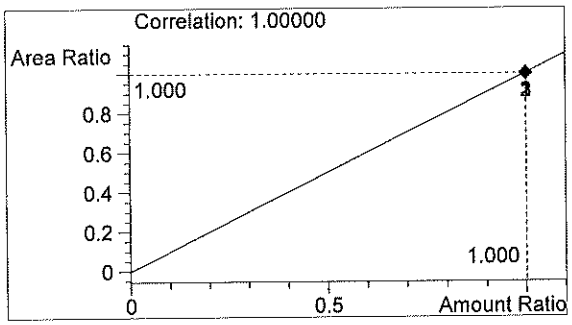
Sample Name: 17052-2
Operator: Andrew Gingras
Location: Vial 18



#	Compound	Peak Area	RT (min)
1	Ethanol	1395	1.091
2	n-Propanol	2738	1.770



Ethanol 0.100 g/100mL

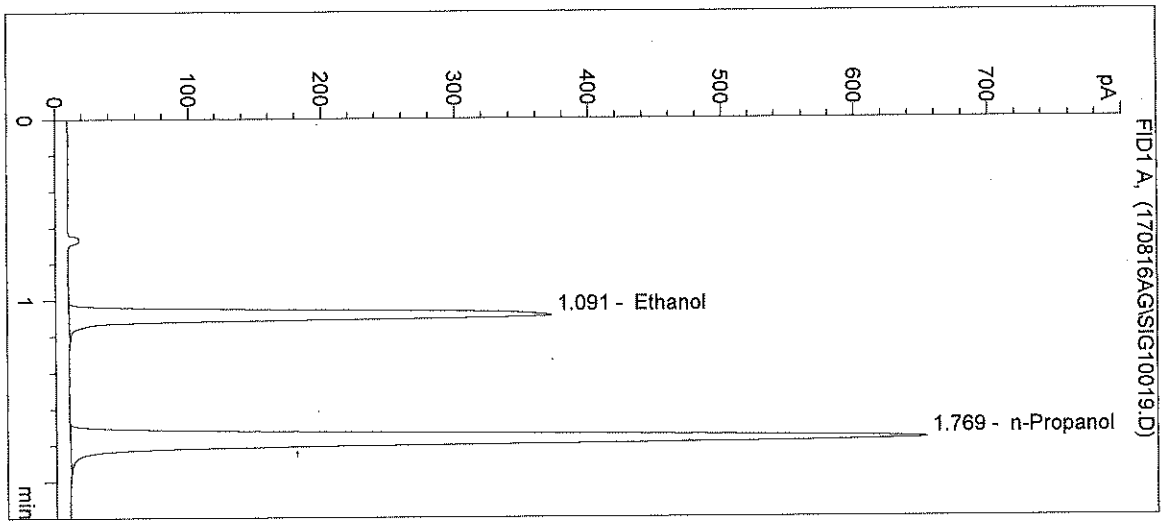


n-Propanol 0.012 g/100mL

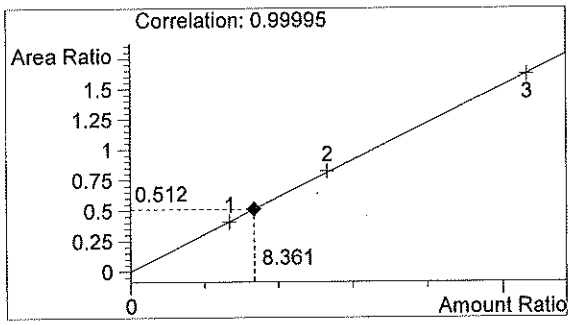
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/16/2017 8:36:57 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

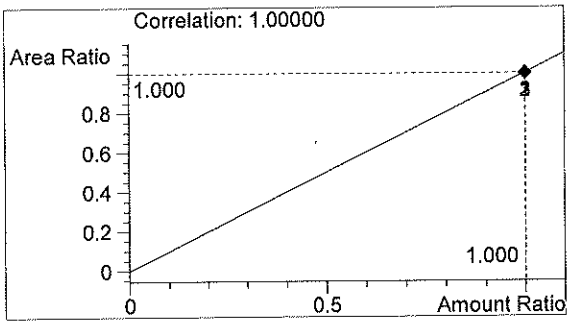
Sample Name: 17052-3
Operator: Andrew Gingras
Location: Vial 19



#	Compound	Peak Area	RT (min)
1	Ethanol	1294	1.091
2	n-Propanol	2528	1.769



Ethanol 0.100 g/100mL

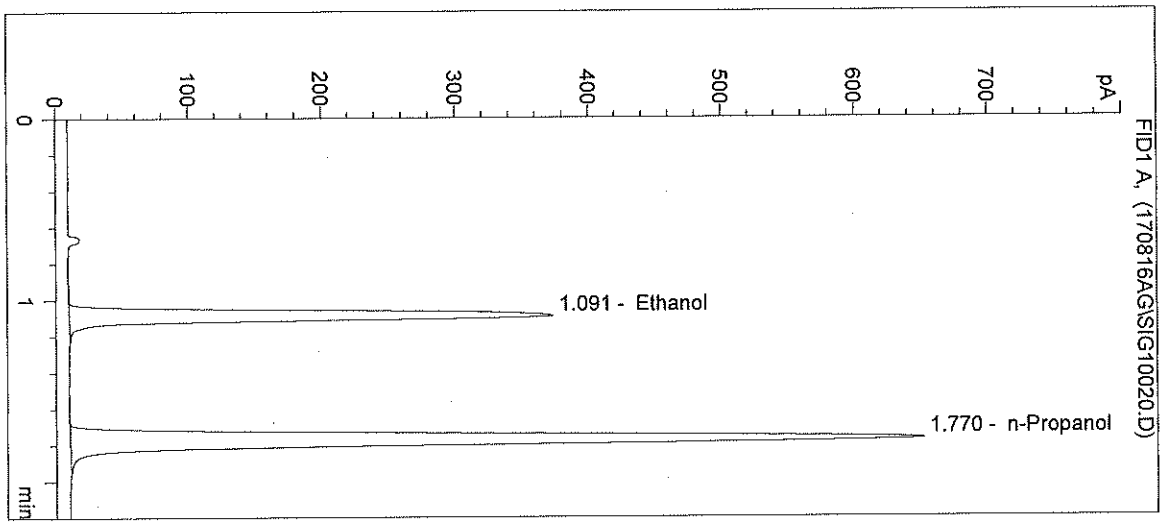


n-Propanol 0.012 g/100mL

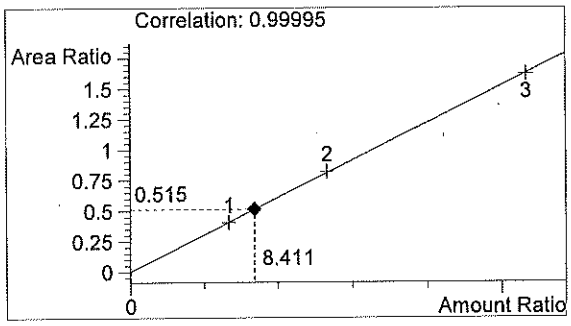
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/16/2017 8:40:11 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

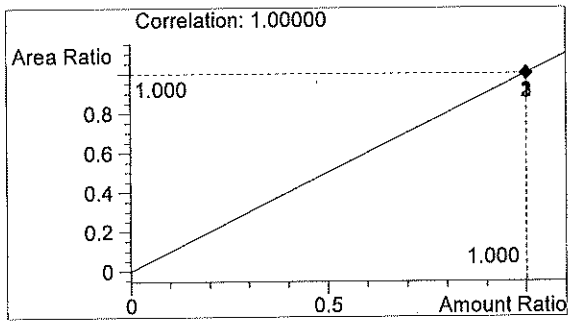
Sample Name: 17052-4
Operator: Andrew Gingras
Location: Vial 20



#	Compound	Peak Area	RT (min)
1	Ethanol	1305	1.091
2	n-Propanol	2534	1.770



Ethanol 0.101 g/100mL

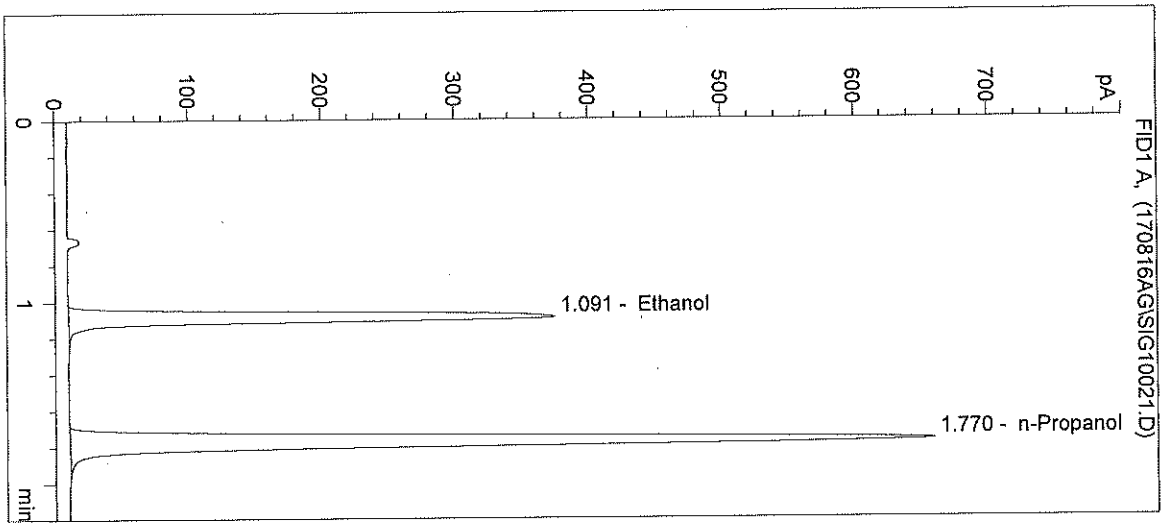


n-Propanol 0.012 g/100mL

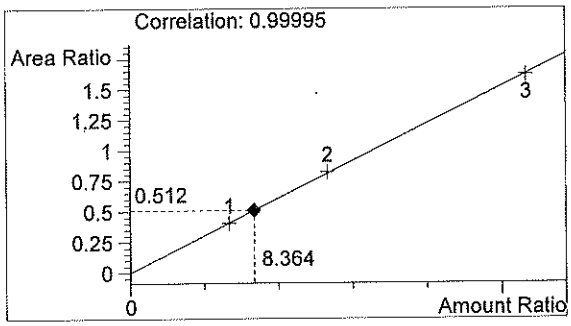
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/16/2017 8:43:24 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

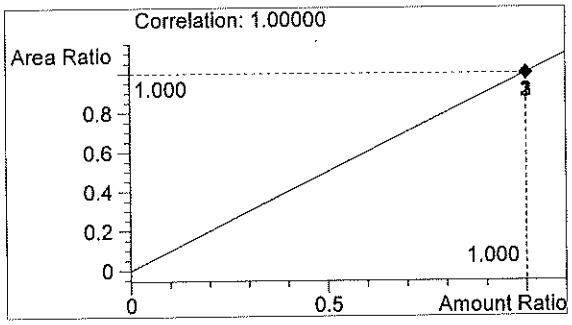
Sample Name: 17052-5
Operator: Andrew Gingras
Location: Vial 21



#	Compound	Peak Area	RT (min)
1	Ethanol	1305	1.091
2	n-Propanol	2549	1.770



Ethanol 0.100 g/100mL

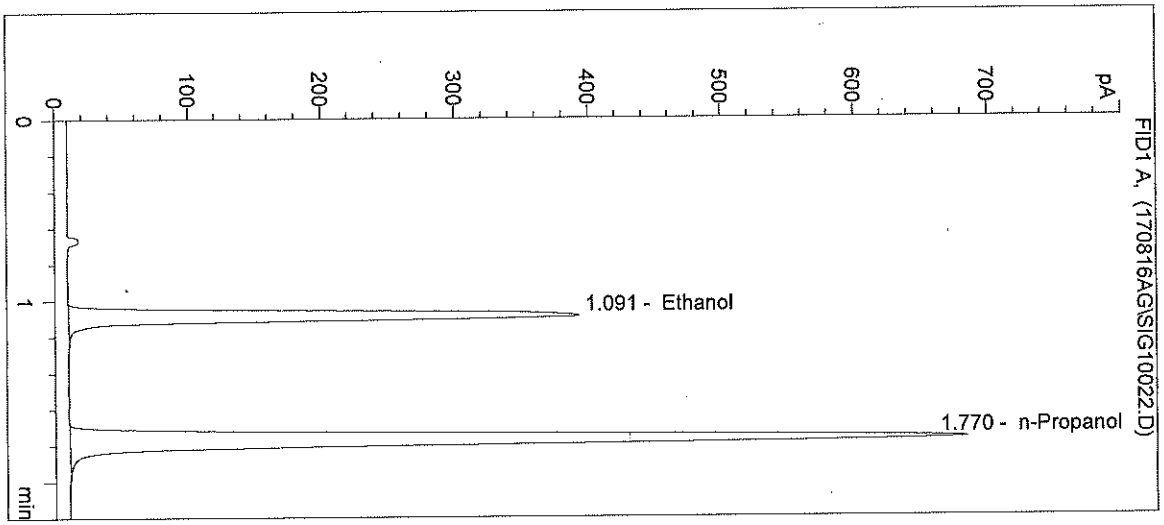


n-Propanol 0.012 g/100mL

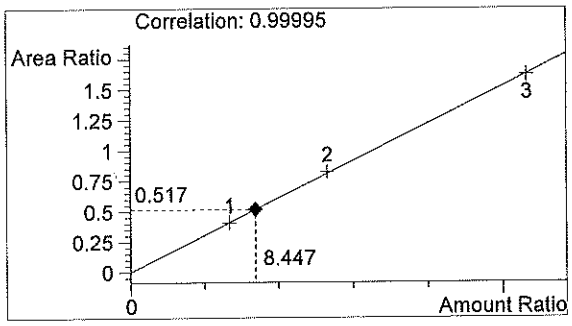
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/16/2017 8:46:39 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: POS CTRL: 0.10 g/100mL
17052

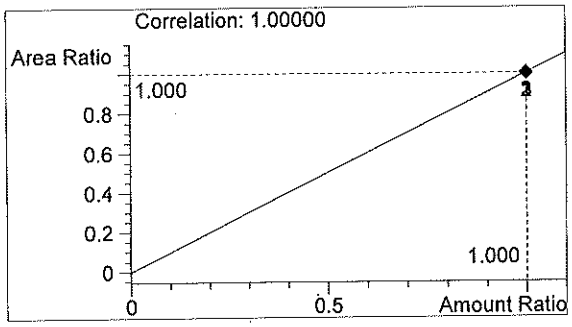
Sample Name: POS CTRL (0.10)
Operator: Andrew Gingras
Location: Vial 22



#	Compound	Peak Area	RT (min)
1	Ethanol	1374	1.091
2	n-Propanol	2658	1.770



Ethanol 0.101 g/100mL

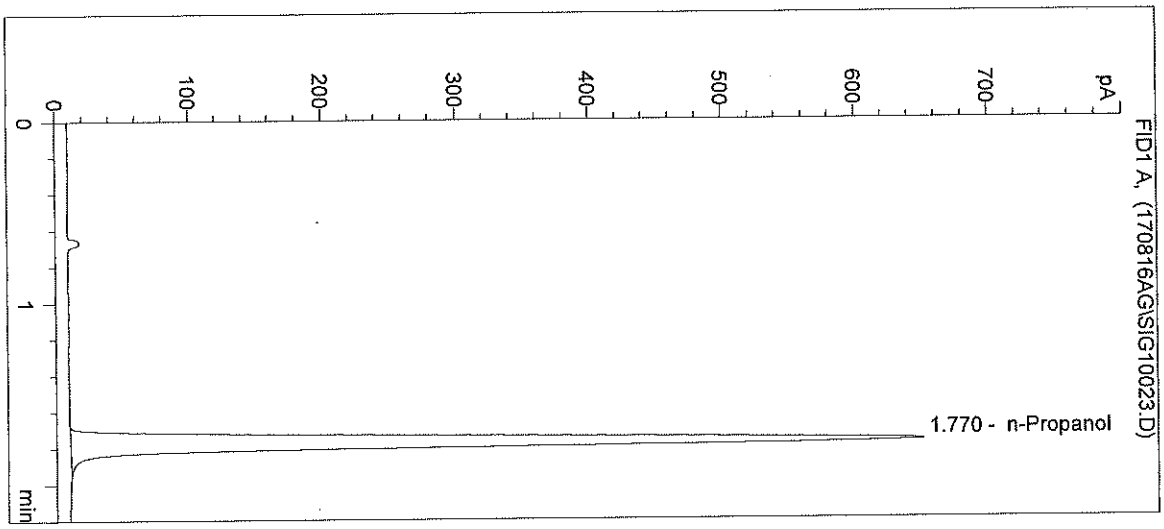


n-Propanol 0.012 g/100mL

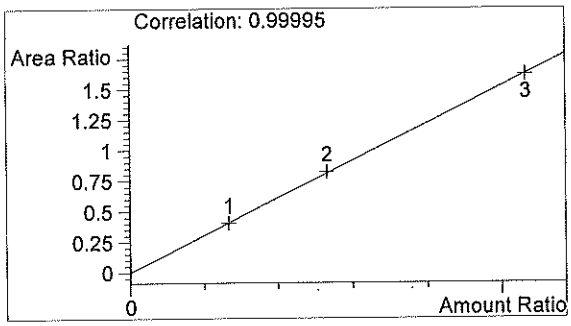
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/16/2017 8:49:50 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17052

Sample Name: NEG CTRL
Operator: Andrew Gingras
Location: Vial 23

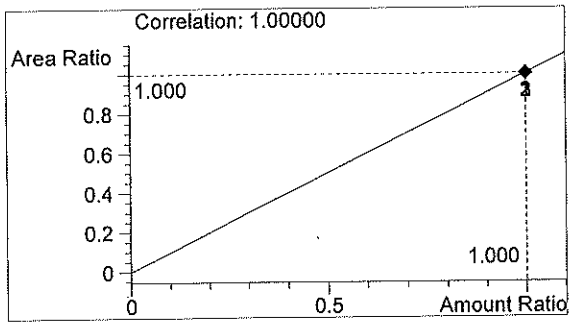


#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2533	1.770



Ethanol 0.000 g/100mL

MX



n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\170816AG\SIG10023.D

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

Sequence Parameters:

Operator:	Rebecca Flaherty
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:	170817R2
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:

CAL 1: 0.079 g/100mL - Lot: E0717-01 - X: 01/27/18
CAL 2: 0.158 g/100mL - Lot: E0717-02 - X: 01/27/18
CAL 3: 0.316 g/100mL - Lot: E0717-03 - X: 01/27/18

CTRL 1: 0.04 g/100mL - Lot: FN12181501 - X: 12/2020
CTRL 2: 0.10 g/100mL - Lot: FN08051301 - X: 10/2018
CTRL 3: 0.20 g/100mL - Lot: FN08101505 - X: 02/2021

n-Propanol ISTD - Lot: P0717 - X: 10/20/17

Calibration vials 1-9 filed with 17052

Diluter #1

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	CAL 1 (0.079)	SIMALC1	1	Calib		
3	Vial 3	CAL 2 (0.158)	SIMALC1	1	Calib		
4	Vial 4	CAL 3 (0.316)	SIMALC1	1	Calib		
5	Vial 5	NEG CTRL	SIMALC1	1	Ctrl Samp		
6	Vial 6	CTRL 1 (0.04)	SIMALC1	1	Ctrl Samp		
7	Vial 7	CTRL 2 (0.10)	SIMALC1	1	Ctrl Samp		
8	Vial 8	CTRL 3 (0.20)	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL	SIMALC1	1	Ctrl Samp		
10	Vial 10	17052-1	SIMALC1	1	Sample		
11	Vial 11	17052-2	SIMALC1	1	Sample		
12	Vial 12	17052-3	SIMALC1	1	Sample		
13	Vial 13	17052-4	SIMALC1	1	Sample		
14	Vial 14	17052-5	SIMALC1	1	Sample		
15	Vial 15	POS CTRL (0.10)	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL	SIMALC1	1	Ctrl Samp		

17052

RF

Calibration Part:

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

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

Sequence Table (Back Injector):

No entries - empty table!

17052

BT
11/8/17

RF

Method C:\HPCHEM\1\METHODS\SIMALC1.M

Calibration Table

Calib. Data Modified : Thursday, August 17, 2017 2:54:23 PM

Calculate : Internal Standard
Based on : Peak Area

Rel. Reference Window : 5.000 %
Abs. Reference Window : 0.050 min
Rel. Non-ref. Window : 5.000 %
Abs. Non-ref. Window : 0.050 min
Multiplier : 1.0000
Dilution : 1.0000
Sample Amount : 0.00000
Use Multiplier & Dilution Factor with ISTDs
Uncalibrated Peaks : not reported
Partial Calibration : No recalibration if peaks missing

Curve Type : Linear
Origin : Included
Weight : Equal

Recalibration Settings:
Average Response : No Update
Average Retention Time: No Update

Calibration Report Options :
Printout of recalibrations within a sequence:
Normal Report after Recalibration

Sample ISTD Information:

ISTD #	ISTD Amount [g/100mL]	Name
1	1.20000e-2	n-Propanol

Signal 1: FID1 A,

RetTime [min]	Lvl Sig		Amount [g/100mL]	Area	Amt/Area	Ref	Grp	Name
1.091	1	1	7.99000e-2	1019.06427	7.84053e-5	1		Ethanol
		2	1.59490e-1	2019.61401	7.89705e-5			
		3	3.19580e-1	4000.10156	7.98930e-5			
1.769	1	1	1.20000e-2	2444.87939	4.90822e-6	I1		n-Propanol
		2	1.20000e-2	2421.50806	4.95559e-6			
		3	1.20000e-2	2406.43677	4.98663e-6			

Peak Sum Table

No Entries in table

17052

RF

Method C:\HPCHEM\1\METHODS\SIMALC1.M

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Calibration Curves

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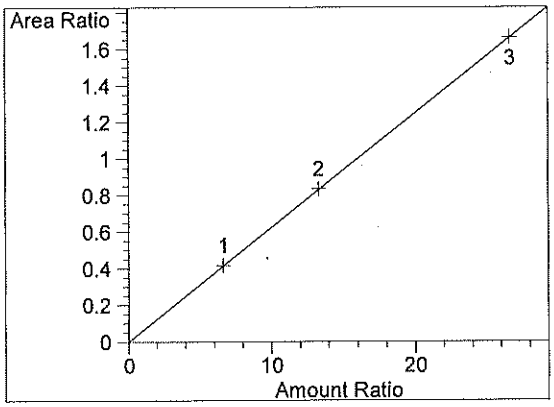
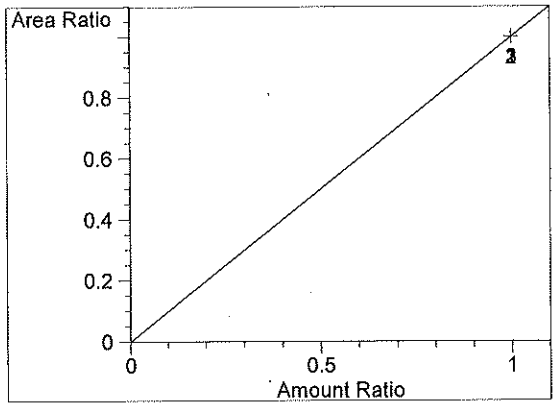


Ethanol at exp. RT: 1.091
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00258
Formula: y = mx + b
m: 6.24195e-2
b: 1.38641e-3
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.769
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

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BT 11/8/17

#17052

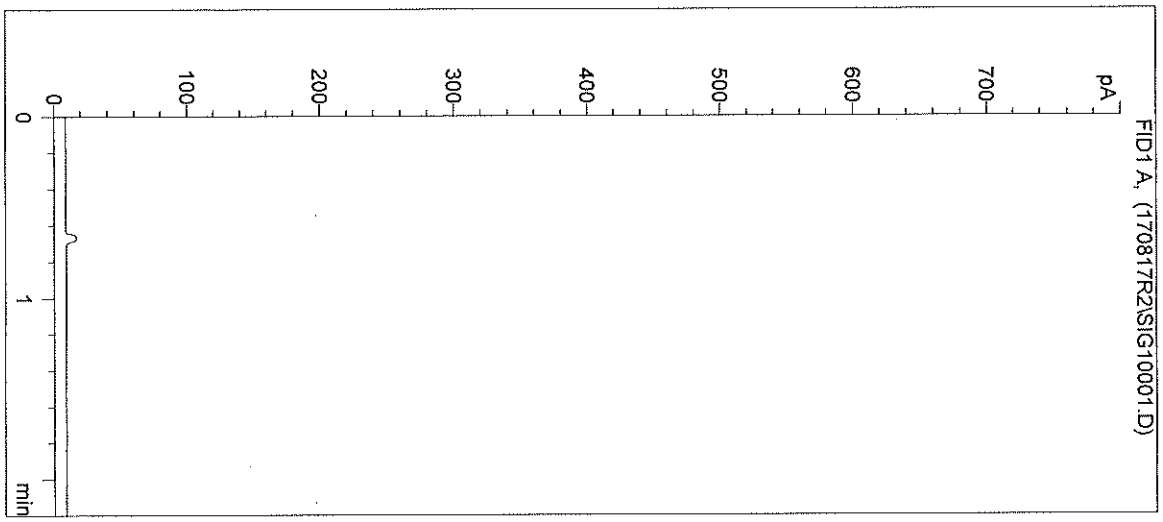
BT 11/8/17

RF

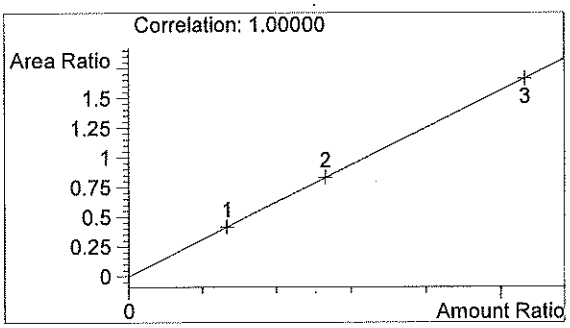
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/17/2017 2:42:17 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17052

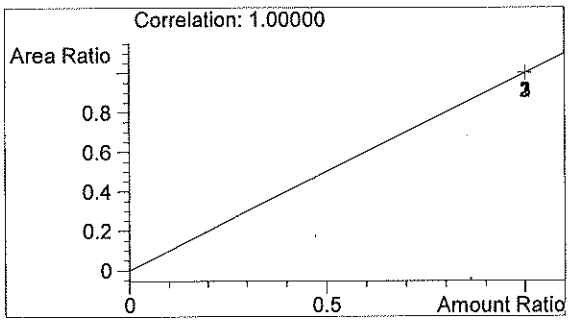
Sample Name: BLANK
Operator: Rebecca Flaherty
Location: Vial 1



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	0	0.000



Ethanol 0.000 g/100mL



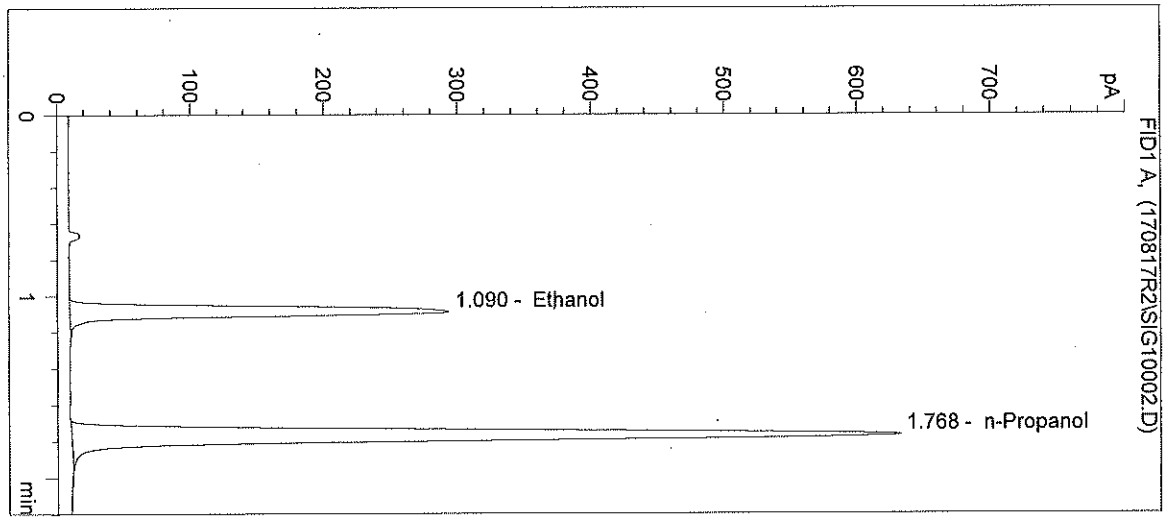
n-Propanol 0.000 g/100mL

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

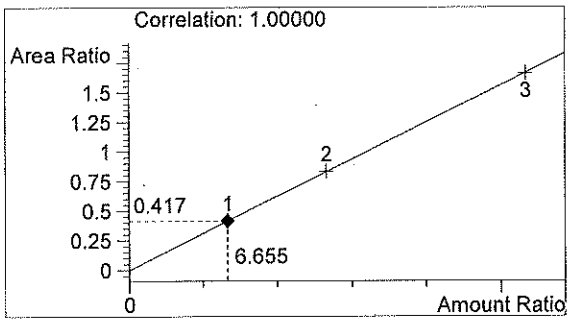
Inj. Date: 8/17/2017 2:45:36 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 1: 0.079 g/100mL
17052

Sample Name: CAL 1 (0.079)
Operator: Rebecca Flaherty
Location: Vial 2

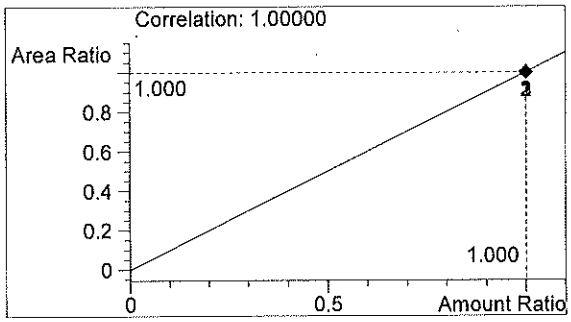
->



#	Compound	Peak Area	RT (min)
1	Ethanol	1019	1.090
2	n-Propanol	2445	1.768



Ethanol 0.080 g/100mL



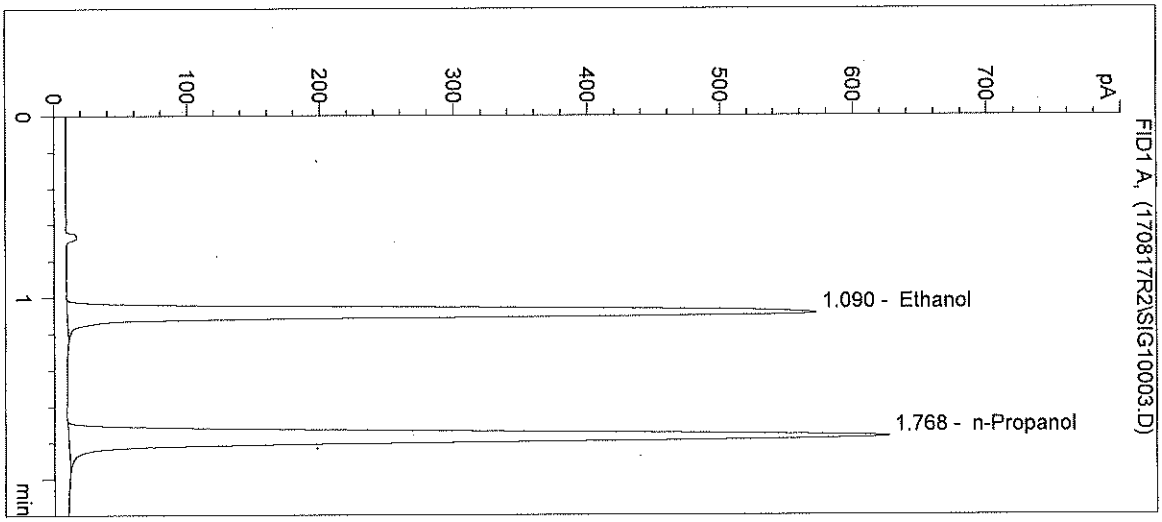
n-Propanol 0.012 g/100mL

Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

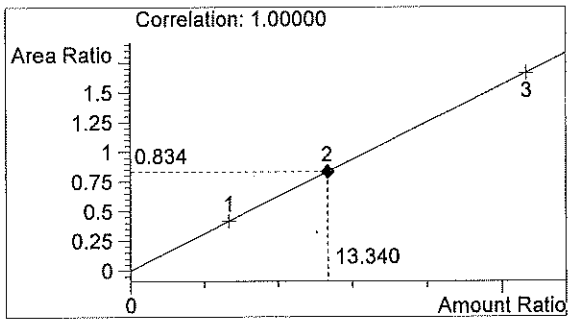
Inj. Date: 8/17/2017 2:48:53 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 2: 0.158 g/100mL
17052

Sample Name: CAL 2 (0.158)
Operator: Rebecca Flaherty
Location: Vial 3

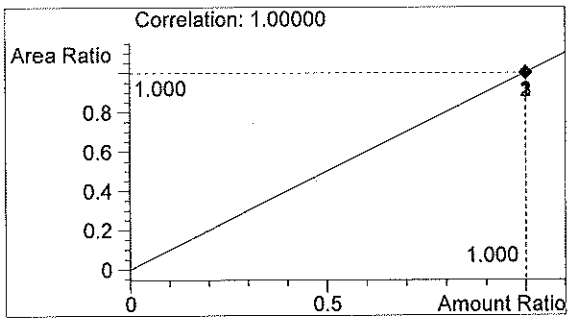
->



#	Compound	Peak Area	RT (min)
1	Ethanol	2020	1.090
2	n-Propanol	2422	1.768



Ethanol 0.160 g/100mL



n-Propanol 0.012 g/100mL

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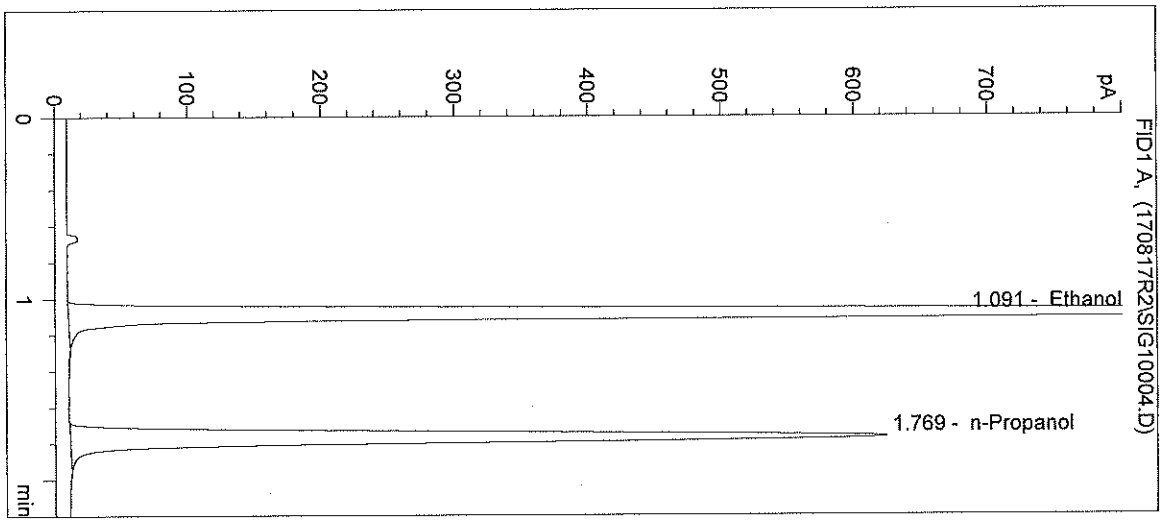
2203 Airport Way S Seattle, WA 98134

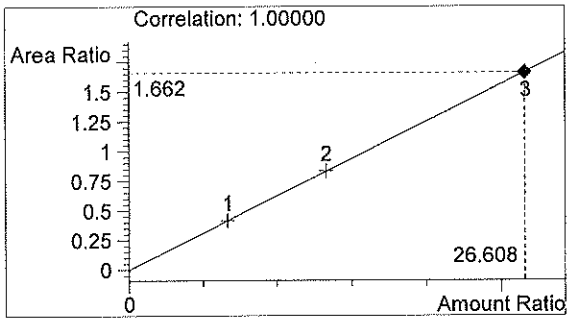
Inj. Date: 8/17/2017 2:52:10 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CAL 3: 0.316 g/100mL
17052

Sample Name: CAL 3 (0.316)
Operator: Rebecca Flaherty
Location: Vial 4

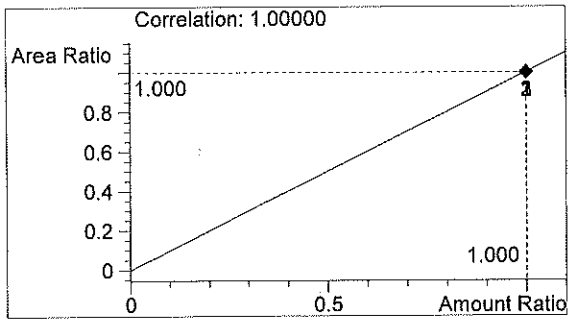
->



#	Compound	Peak Area	RT (min)
1	Ethanol	4000	1.091
2	n-Propanol	2406	1.769



Ethanol 0.319 g/100mL



n-Propanol 0.012 g/100mL

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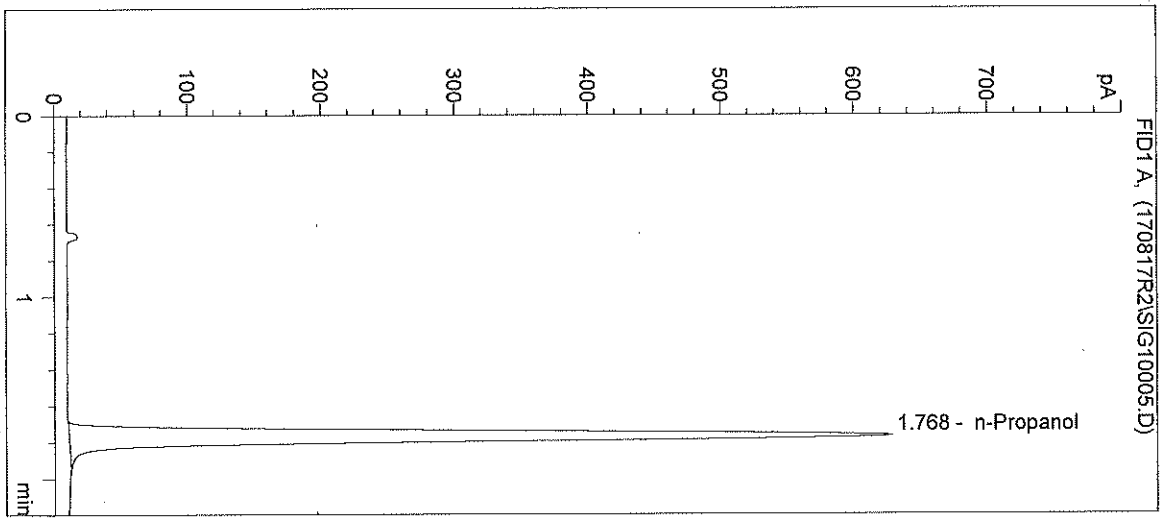
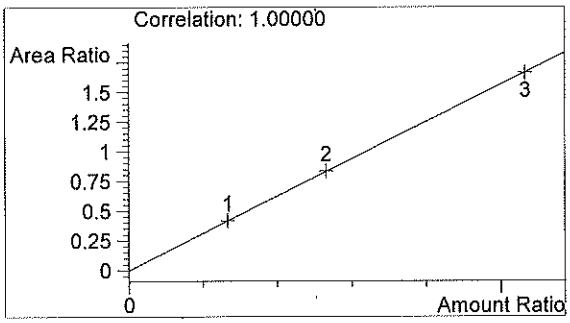
Inj. Date: 8/17/2017 2:55:24 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17052

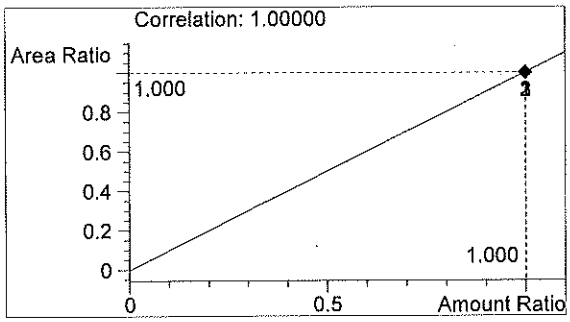
Sample Name: NEG CTRL
Operator: Rebecca Flaherty
Location: Vial 5



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2415	1.768



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

RF

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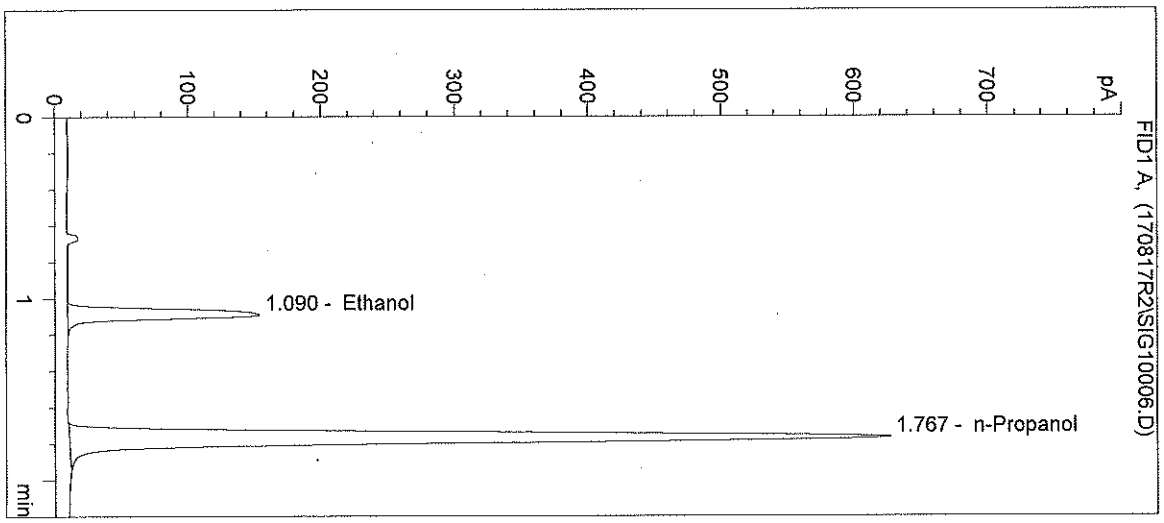
2203 Airport Way S Seattle, WA 98134

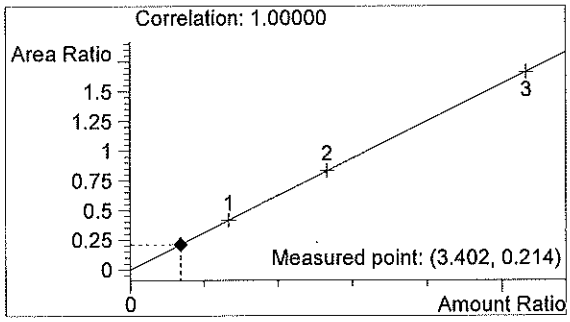
Inj. Date: 8/17/2017 2:58:37 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CTRL 1: 0.04 g/100mL
17052

Sample Name: CTRL 1 (0.04)
Operator: Rebecca Flaherty
Location: Vial 6

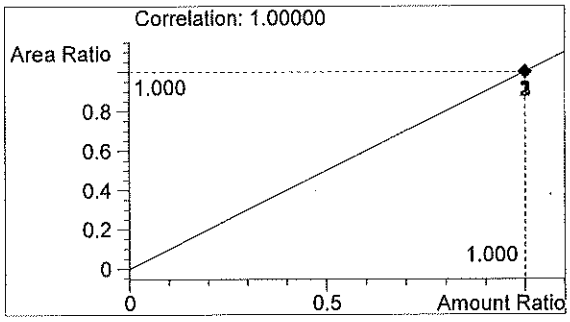
->



#	Compound	Peak Area	RT (min)
1	Ethanol	517	1.090
2	n-Propanol	2419	1.767



Ethanol 0.041 g/100mL



n-Propanol 0.012 g/100mL

RF

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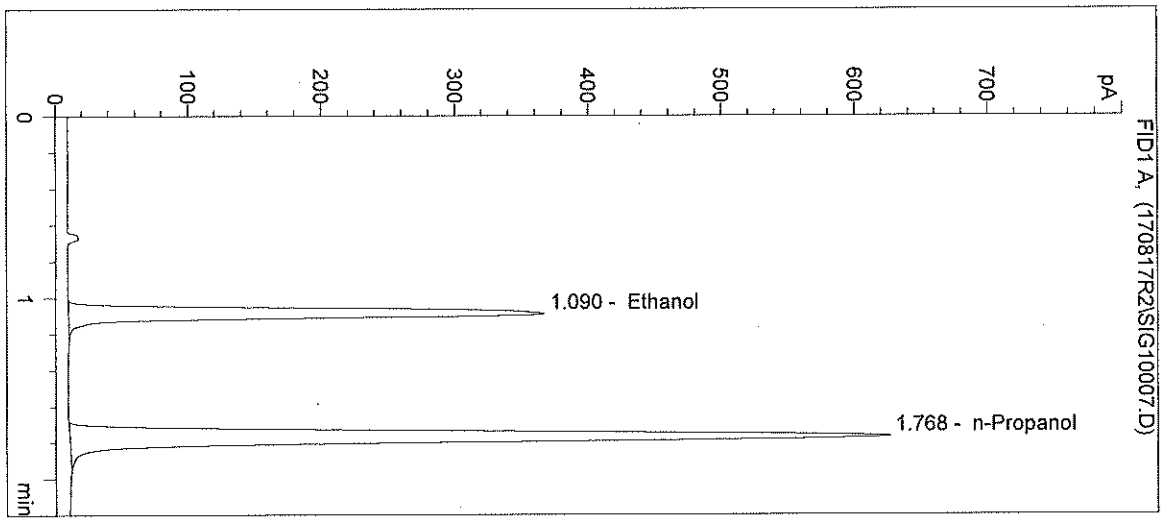
2203 Airport Way S Seattle, WA 98134

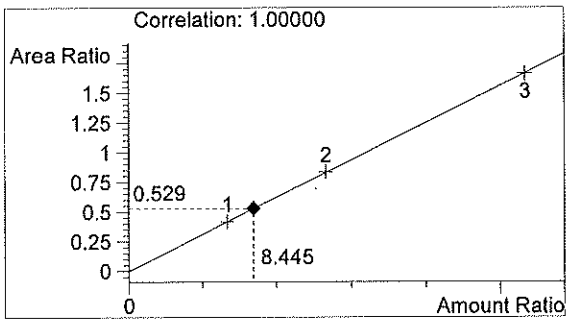
Inj. Date: 8/17/2017 3:01:50 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CTRL 2: 0.10 g/100mL
17052

Sample Name: CTRL 2 (0.10)
Operator: Rebecca Flaherty
Location: Vial 7

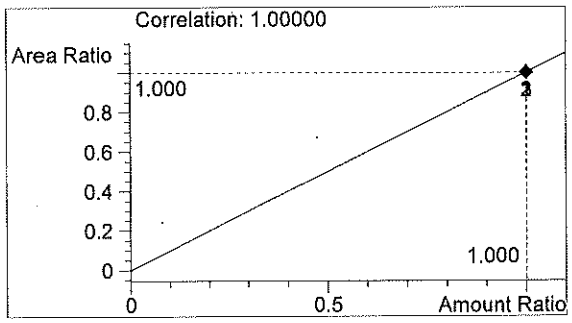
->



#	Compound	Peak Area	RT (min)
1	Ethanol	1277	1.090
2	n-Propanol	2415	1.768



Ethanol 0.101 g/100mL



n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\170817R2\SIG10007.D

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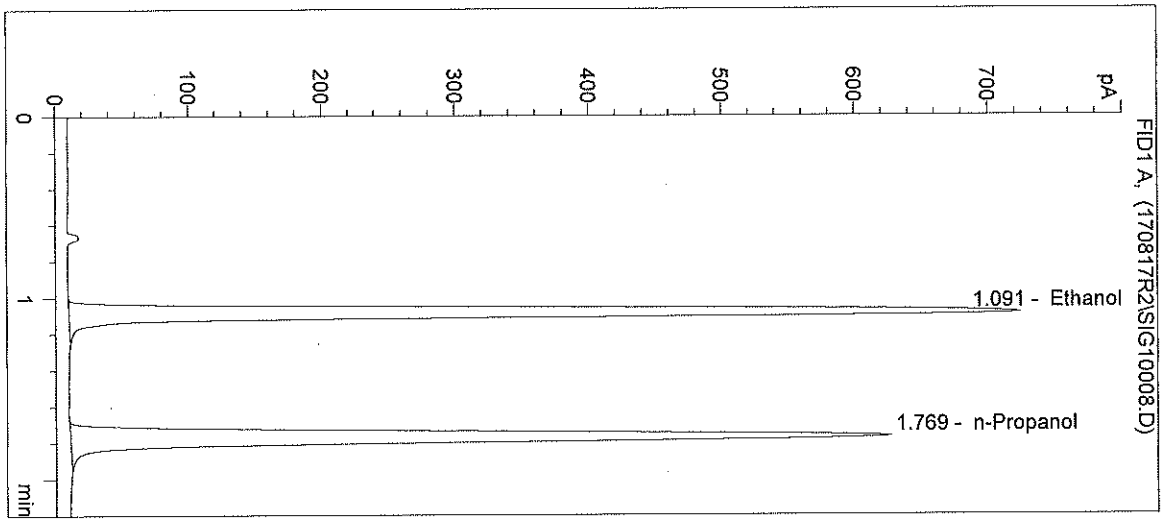
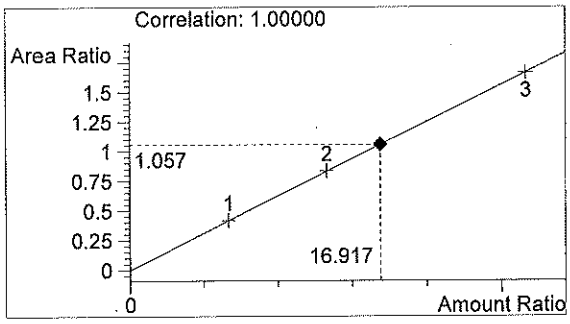
Inj. Date: 8/17/2017 3:05:04 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: CTRL 3: 0.20 g/100mL
17052

Sample Name: CTRL 3 (0.20)
Operator: Rebecca Flaherty
Location: Vial 8

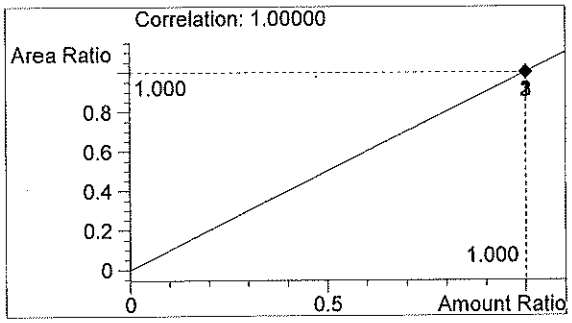
->



#	Compound	Peak Area	RT (min)
1	Ethanol	2558	1.091
2	n-Propanol	2419	1.769



Ethanol 0.203 g/100mL



n-Propanol 0.012 g/100mL

RF

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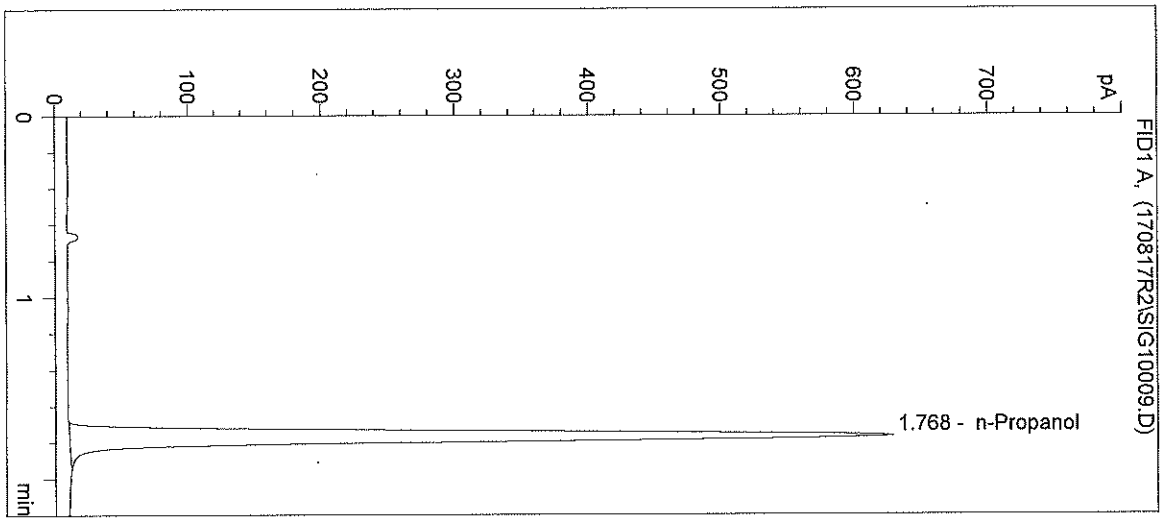
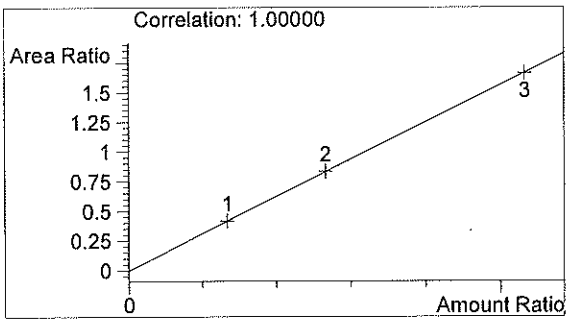
Inj. Date: 8/17/2017 3:08:17 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17052

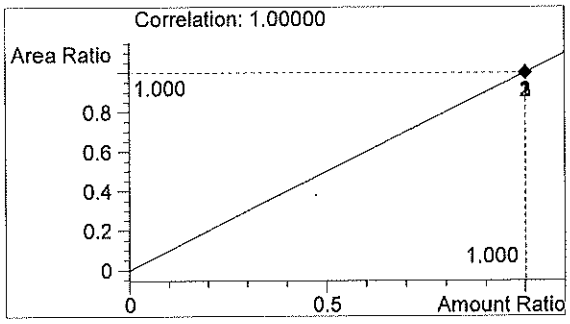
Sample Name: NEG CTRL
Operator: Rebecca Flaherty
Location: Vial 9



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2421	1.768



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

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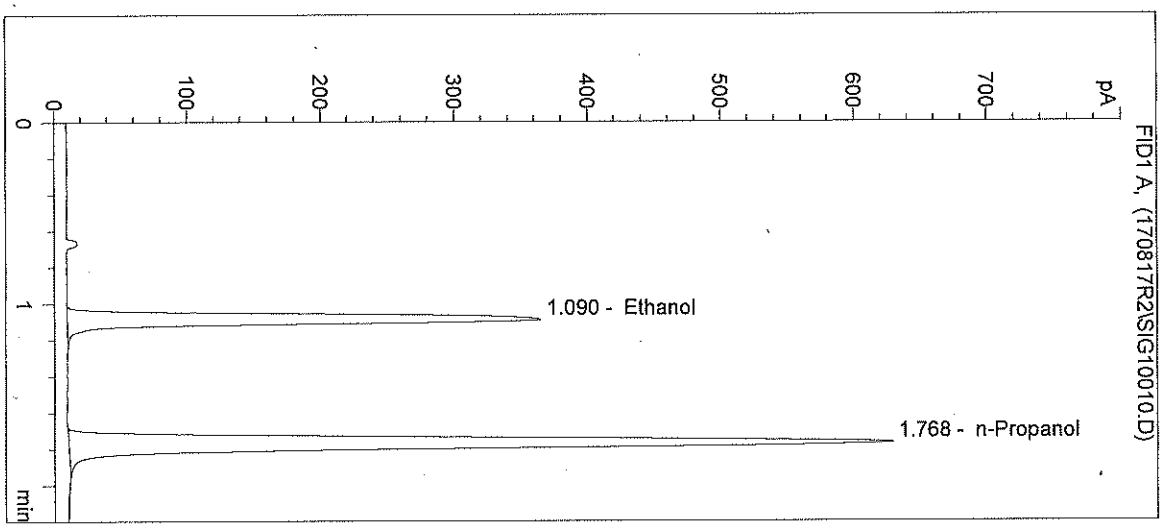
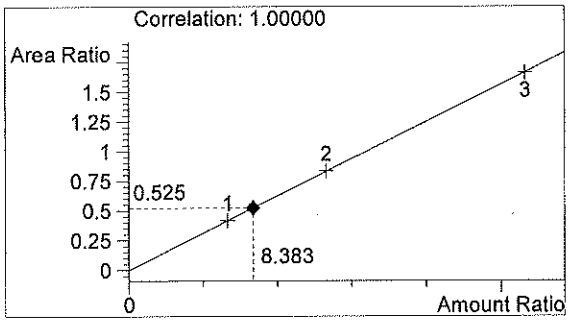
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/17/2017 3:11:30 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

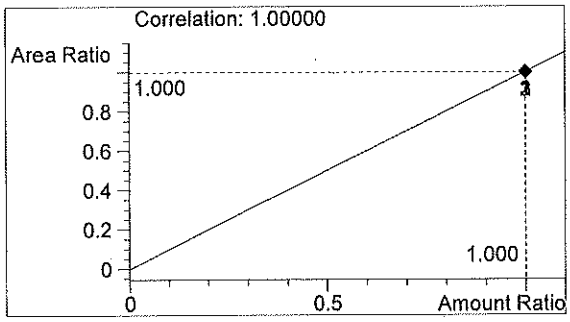
Sample Name: 17052-1
Operator: Rebecca Flaherty
Location: Vial 10



#	Compound	Peak Area	RT (min)
1	Ethanol	1272	1.090
2	n-Propanol	2424	1.768



Ethanol 0.101 g/100mL



n-Propanol 0.012 g/100mL

RF

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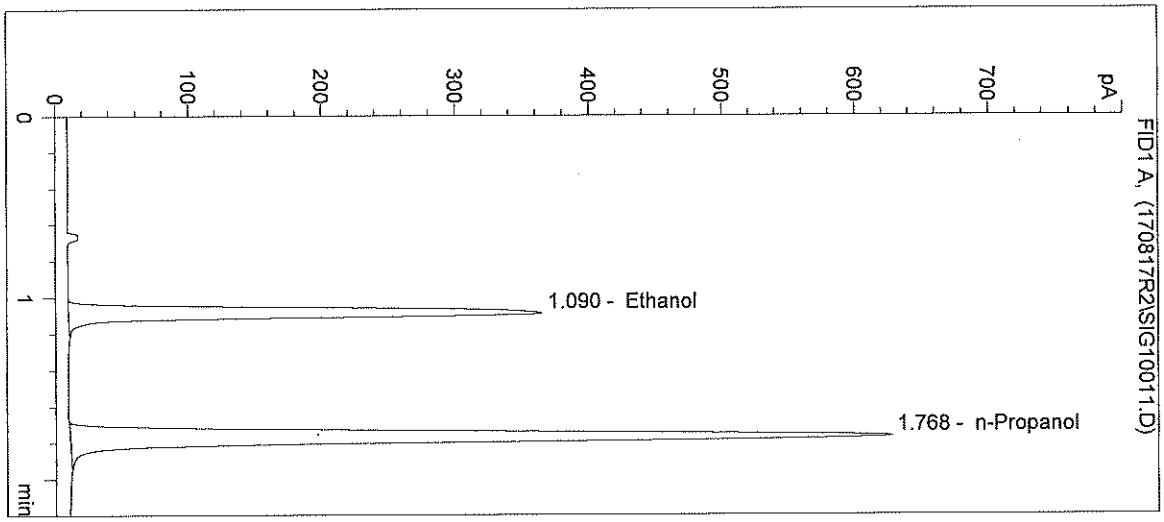
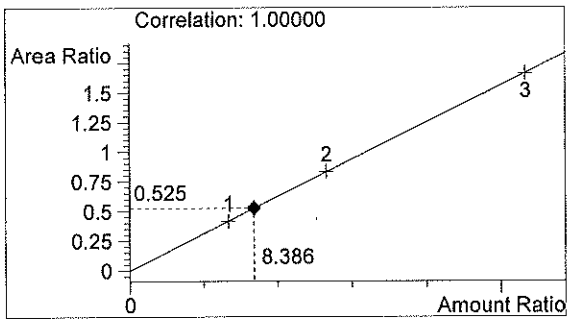
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/17/2017 3:14:43 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: 17052-2
Operator: Rebecca Flaherty
Location: Vial 11

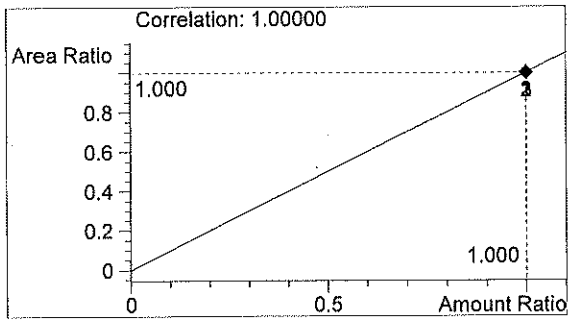


#	Compound	Peak Area	RT (min)
1	Ethanol	1272	1.090
2	n-Propanol	2424	1.768



Ethanol 0.101 g/100mL

MK



n-Propanol 0.012 g/100mL

RF

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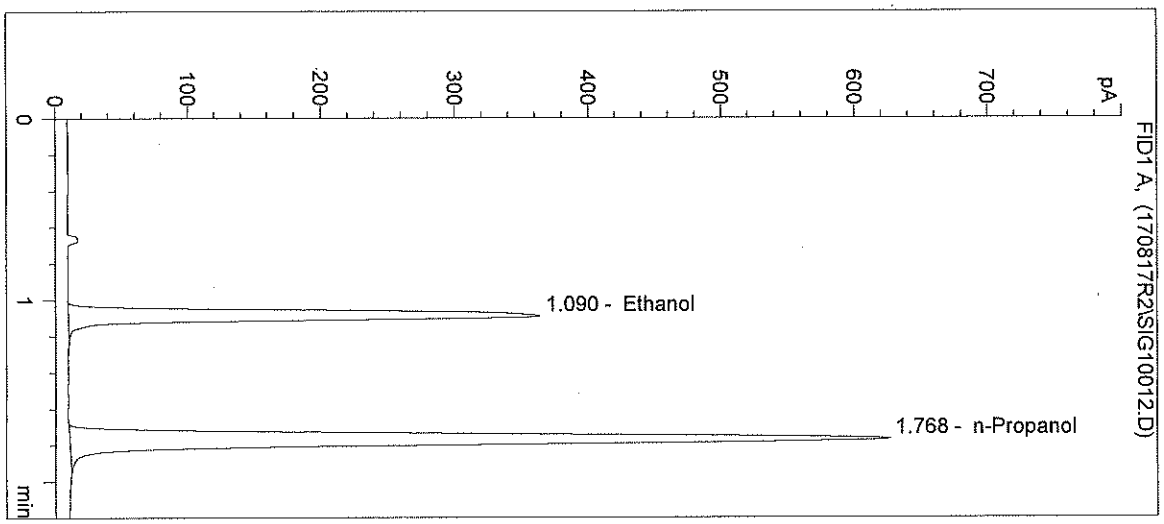
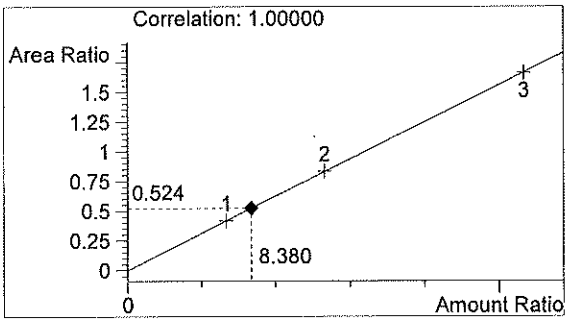
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/17/2017 3:17:57 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: 17052-3
Operator: Rebecca Flaherty
Location: Vial 12

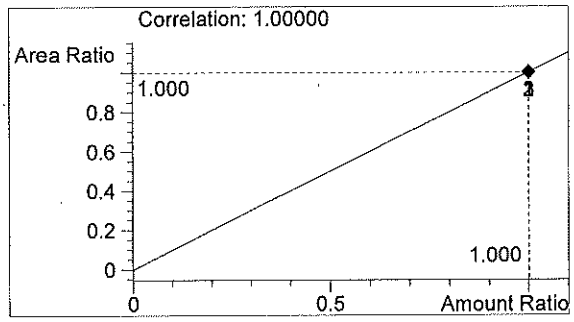


#	Compound	Peak Area	RT (min)
1	Ethanol	1266	1.090
2	n-Propanol	2414	1.768



Ethanol 0.101 g/100mL

BK



n-Propanol 0.012 g/100mL

RF

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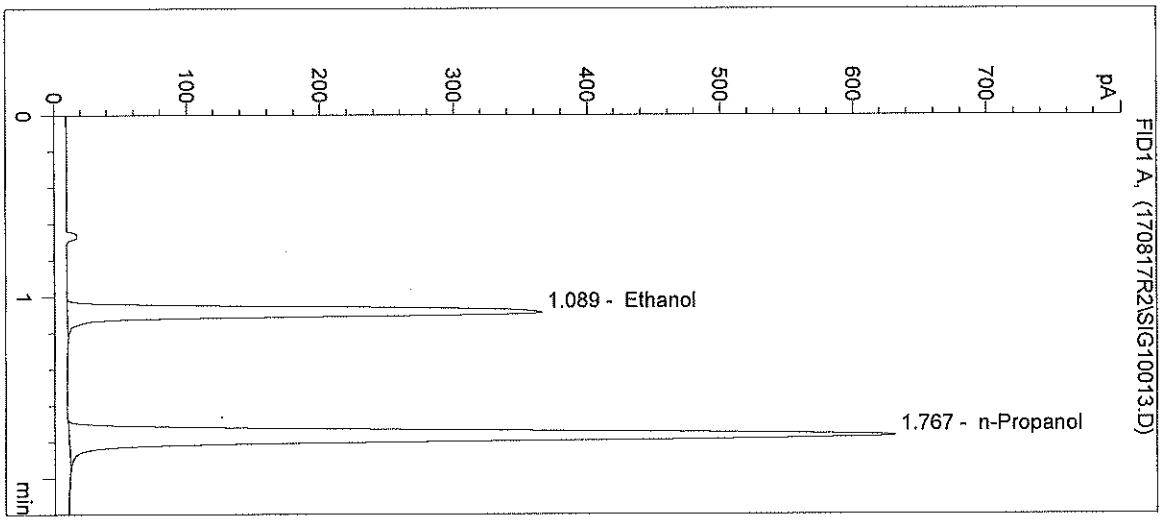
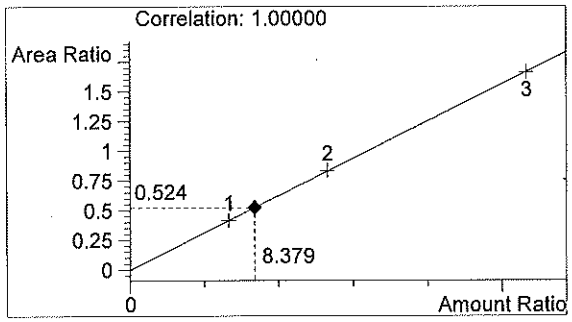
Inj. Date: 8/17/2017 3:21:10 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: 17052-4
Operator: Rebecca Flaherty
Location: Vial 13

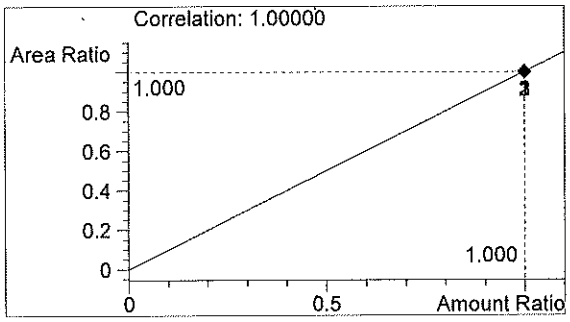


#	Compound	Peak Area	RT (min)
1	Ethanol	1272	1.089
2	n-Propanol	2425	1.767



Ethanol 0.101 g/100mL

BK



n-Propanol 0.012 g/100mL

RF

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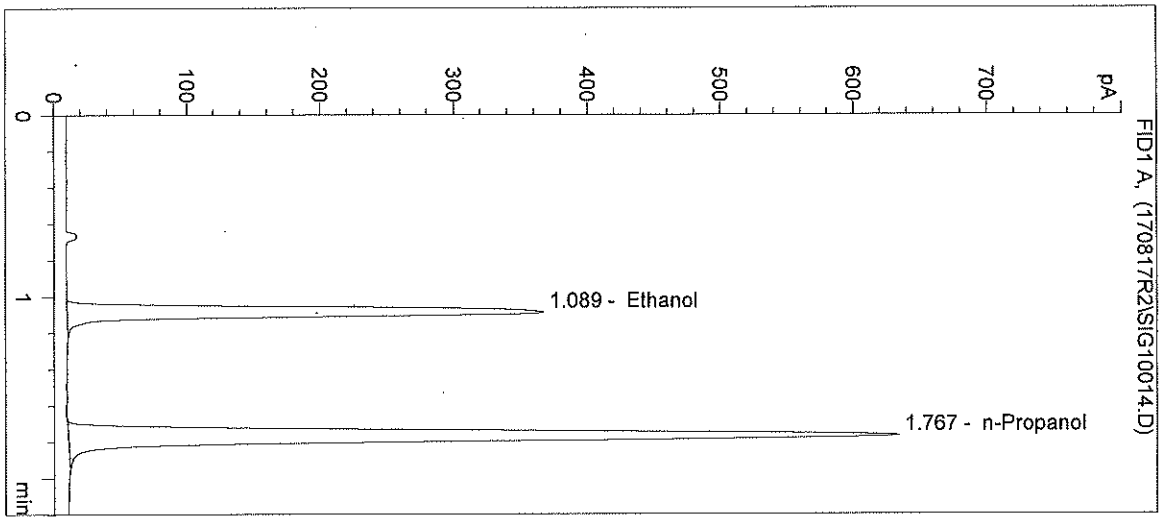
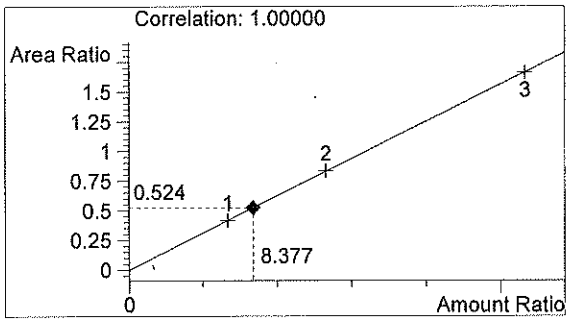
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/17/2017 3:24:23 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

Sample Name: 17052-5
Operator: Rebecca Flaherty
Location: Vial 14

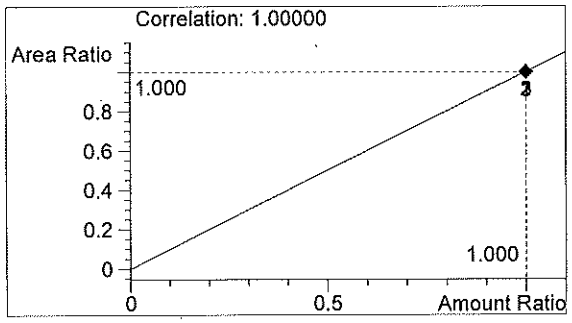


#	Compound	Peak Area	RT (min)
1	Ethanol	1276	1.089
2	n-Propanol	2434	1.767



Ethanol 0.101 g/100mL

MT



n-Propanol 0.012 g/100mL

RF

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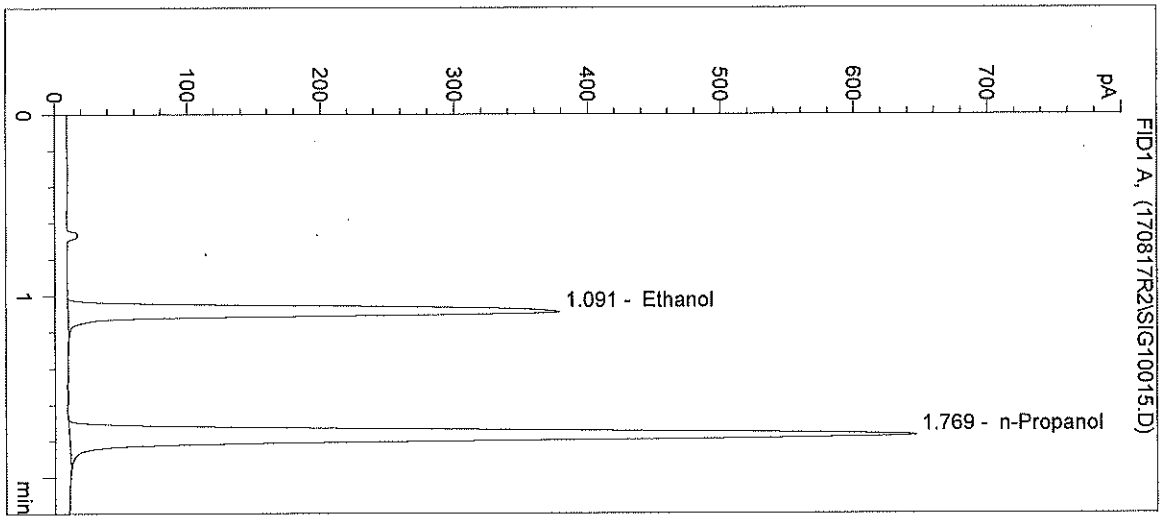
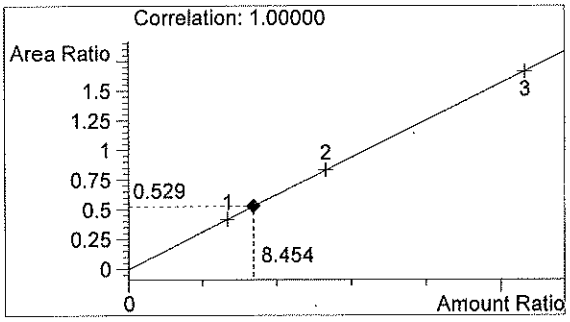
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/17/2017 3:27:37 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: POS CTRL: 0.10 g/100mL
17052

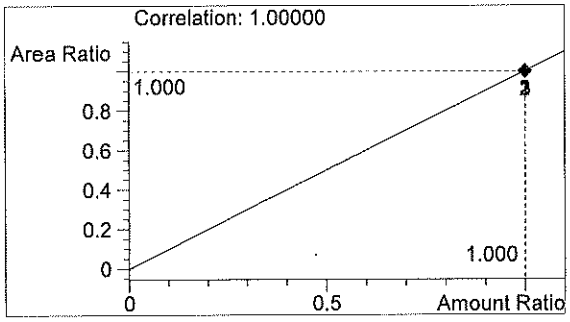
Sample Name: POS CTRL (0.10)
Operator: Rebecca Flaherty
Location: Vial 15



#	Compound	Peak Area	RT (min)
1	Ethanol	1323	1.091
2	n-Propanol	2501	1.769



Ethanol 0.101 g/100mL

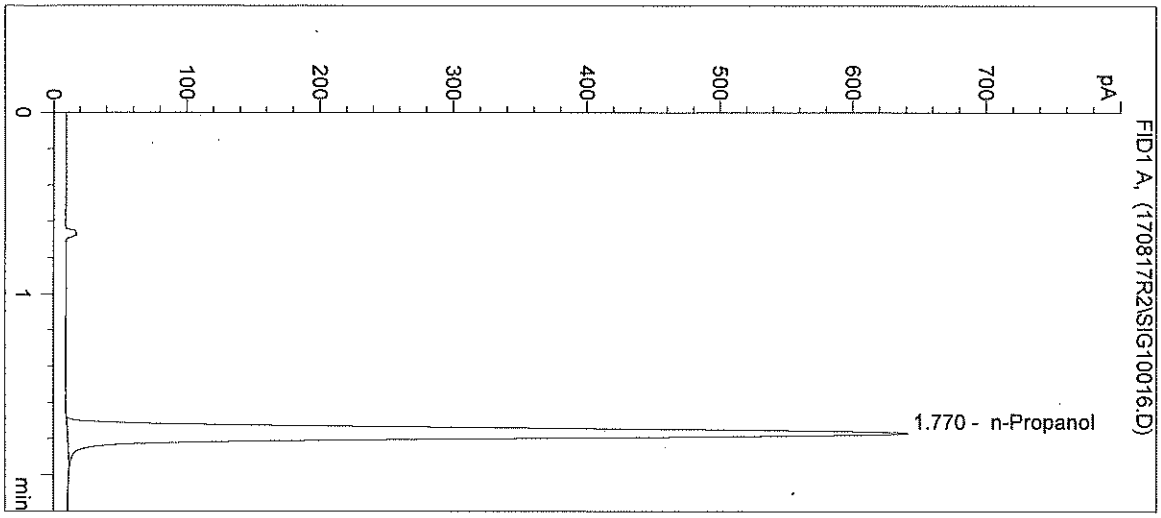


n-Propanol 0.012 g/100mL

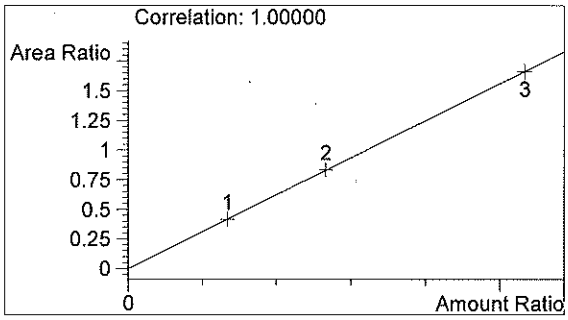
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 8/17/2017 3:30:50 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 17052

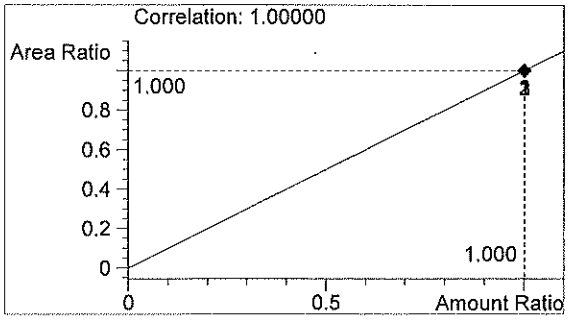
Sample Name: NEG CTRL
Operator: Rebecca Flaherty
Location: Vial 16



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2489	1.770



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL