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: 16019

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: 05/20/2016
BATCH UNITS: g/100mL
IDENTITY: QAP Solution
PREPARED BY: Christopher S. Johnston

	CSJ	KH	AC
1	0.099	0.102	0.099
2	0.099	0.098	0.099
3	0.099	0.099	0.098
4	0.100	0.098	0.099
5	0.100	0.097	0.099
C	0.101	0.101	0.102

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

RESULTS OF TESTING
AVERAGE SOLUTION CONCENTRATION: 0.0990 g/100mL
STANDARD DEVIATION: 0.00113
PRECISION CV (%): 1.15
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0805 g/210L**
EXPANDED UNCERTAINTY: ± 0.0018 (k=2, 95.45% confidence interval)

WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION

Lisa Noble Forensic Scientist Supervisor — 6/29/16 DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

ANALYST	NAME	SIGNATURE	DATE TESTED
CSJ	Christopher S. Johnston	Chris S. J.	05/20/2016
KH	Katie Harris	Katie Harris	05/27/2016
AC	Amanda Chandler	Amanda Chandler	06/07/2016

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

QAP Solution Batch #: 16019 **Date Prepared:** 5/20/2016

Analyst:	CSJ	KH	AC
Date Tested:	5/20/2016	5/27/2016	6/7/2016
Instrument:	HSGC #1	HSGC #1	HSGC #1
1	0.099	0.102	0.099
2	0.099	0.098	0.099
3	0.099	0.099	0.098
4	0.100	0.098	0.099
5	0.100	0.097	0.099
C	0.101	0.101	0.102

CV^2_{COA}	$CV^2_{QAP\ Solution}$	$CV^2_{Control}$	$CV^2_{Part\ Coef}$
0.0000084100	0.0000087455	0.0000108206	0.0001016326

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

Average Solution Concentration: 0.0990 g/100mL
Standard Deviation: 0.00113 g/100mL
Precision CV (%): 1.15
Equivalent Vapor Concentration: 0.0805 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: Lisa Noble [signature] 6/13/16
Name Signature Date

Calculations verified by: Amanda M. Black [signature] 6-27-16
Name Signature Date

Method: Hand calculation

Tech. review performed by: Lisa Noble [signature] 6/13/16
Name Signature Date

Washington State Patrol Toxicology Laboratory Division

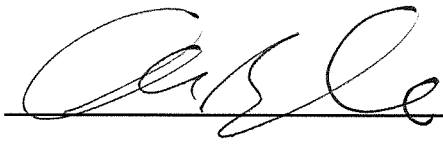
SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Amanda M. Black **Date:** 6-27-16

Location: WSP-FLSB Seattle, WA **Solution Batch Number:** 16019

	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:  **Date:** 6-27-16

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	AZ	6/13/16
Andrew Gingras		
Asa Louis		
Brittany Thomas		
Christie Mitchell-Mata		
Christopher Johnston	CJ	6/13/16
David Nguyen		
Dawn Sklerov		
Elizabeth Wehner		
Justin Knoy		
Katie Harris	KH	6/13/16
Lyndsey Lowe		
Naziha Nuwayhid		
Rebecca Flaherty		

Batch # 16019 Jn 6/13/16

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 16019

I, Christopher S. Johnston, 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 Biochemistry.

The quality assurance procedure (QAP) solution, Lot Number 16019, was prepared in the Washington State Toxicology Laboratory on 5/20/2016. 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 5/20/2017.

Seattle, WA

Chris S. Johnston 6/13/2016

Christopher S. Johnston 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 16019

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 16019, was prepared in the Washington State Toxicology Laboratory on 5/20/2016. 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 5/20/2017.

Seattle, WA

Katie Harris 6/13/16

Katie Harris Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

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0.08 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 16019

I, Amanda Chandler, 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: MS degree in Forensic Toxicology.

The quality assurance procedure (QAP) solution, Lot Number 16019, was prepared in the Washington State Toxicology Laboratory on 5/20/2016. 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 5/20/2017.

Seattle, WA

Amanda Chandler 4/13/14

Amanda Chandler 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: 5/20/16 Expiration Date: 5/20/17 Initials of Preparer: CJ

Lot # of 200-proof Ethanol used in preparation: 2EA0437

Date the 200-proof Ethanol bottle was opened: 4/7/16

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	☑	16017
QAP 0.08	22.4	18	☑	16018
~~QAP 0.10~~ QAP 0.08	~~28.1~~ 22.4 CJ 5/20/16	18	☑	16019
QAP 0.15	42.1	18	☑	16020
QAP 0.20	56.1	18	☐	
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	☑	5/20/16 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:
For operational needs I asked Chris to make two batches of 0.08 QAP. JN 5/23/16

Analyst Signature

5/20/16
Date

Sequence: C:\HPCHEM\1\SEQUENCE\CJQAP1.S

Sequence Parameters:

Operator:	Chris Johnston
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:	160520CJ
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
Ethanol Calibrator 1, E0416-01 - Exp. 10/01/2016
Ethanol Calibrator 2, E0416-02 - Exp. 10/01/2016
Ethanol Calibrator 3, E0416-03 - Exp. 10/01/2016
CTRL1 (0.04g/100mL), Lot # FN05011301 - Exp. 05/2018
CTRL2 (0.10g/100mL), Lot # FN08051301 - Exp. 10/2018
CTRL3 (0.20g/100mL), Lot # FN03211401 - Exp. 06/2019
Internal Standard Lot#P0316 - Exp. 06/29/2016

Calibration vials 1-9 filed with 16017.

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	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL	SIMALC1	1	Ctrl Samp		
10	Vial 10	16017-1	SIMALC1	1	Sample		
11	Vial 11	16017-2	SIMALC1	1	Sample		
12	Vial 12	16017-3	SIMALC1	1	Sample		
13	Vial 13	16017-4	SIMALC1	1	Sample		
14	Vial 14	16017-5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL	SIMALC1	1	Ctrl Samp		
17	Vial 17	16018-1	SIMALC1	1	Sample		
18	Vial 18	16018-2	SIMALC1	1	Sample		
19	Vial 19	16018-3	SIMALC1	1	Sample		
20	Vial 20	16018-4	SIMALC1	1	Sample		
21	Vial 21	16018-5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL	SIMALC1	1	Ctrl Samp		
24	Vial 24	16019-1	SIMALC1	1	Sample		
25	Vial 25	16019-2	SIMALC1	1	Sample		
26	Vial 26	16019-3	SIMALC1	1	Sample		

16019
6/13/16

Sequence: C:\HPCHEM\1\SEQUENCE\CJQAP1.S

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
27	Vial 27	16019-4	SIMALC1	1	Sample		
28	Vial 28	16019-5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL	SIMALC1	1	Ctrl Samp		
31	Vial 31	16020-1	SIMALC1	1	Sample		
32	Vial 32	16020-2	SIMALC1	1	Sample		
33	Vial 33	16020-3	SIMALC1	1	Sample		
34	Vial 34	16020-4	SIMALC1	1	Sample		
35	Vial 35	16020-5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL	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!

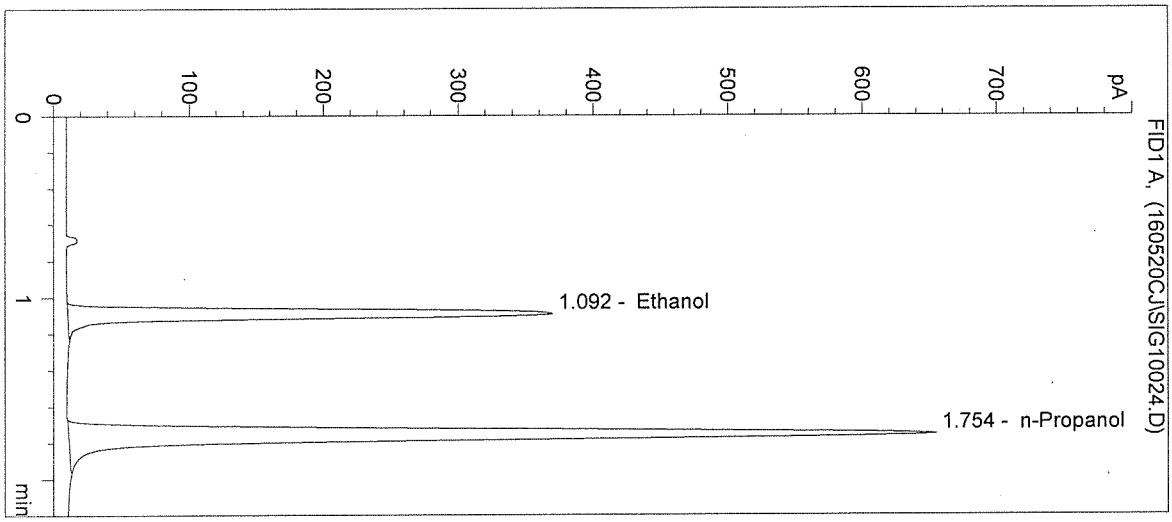
16019

6/13/16

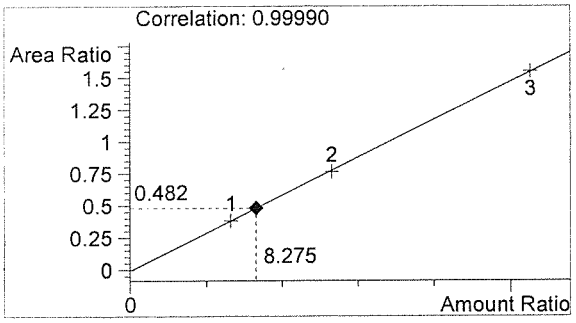
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/20/2016 3:37:43 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

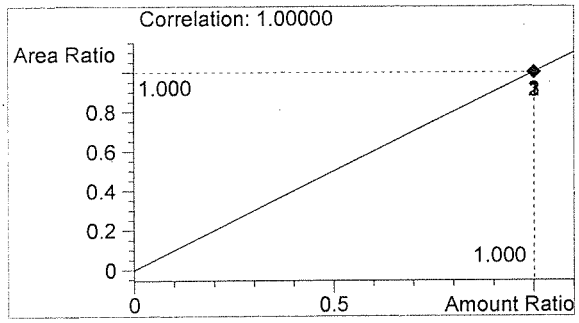
Sample Name: 16019-1
Operator: Chris Johnston
Location: Vial 24



#	Compound	Peak Area	RT (min)
1	Ethanol	1234	1.092
2	n-Propanol	2559	1.754



Ethanol 0.099 g/100mL



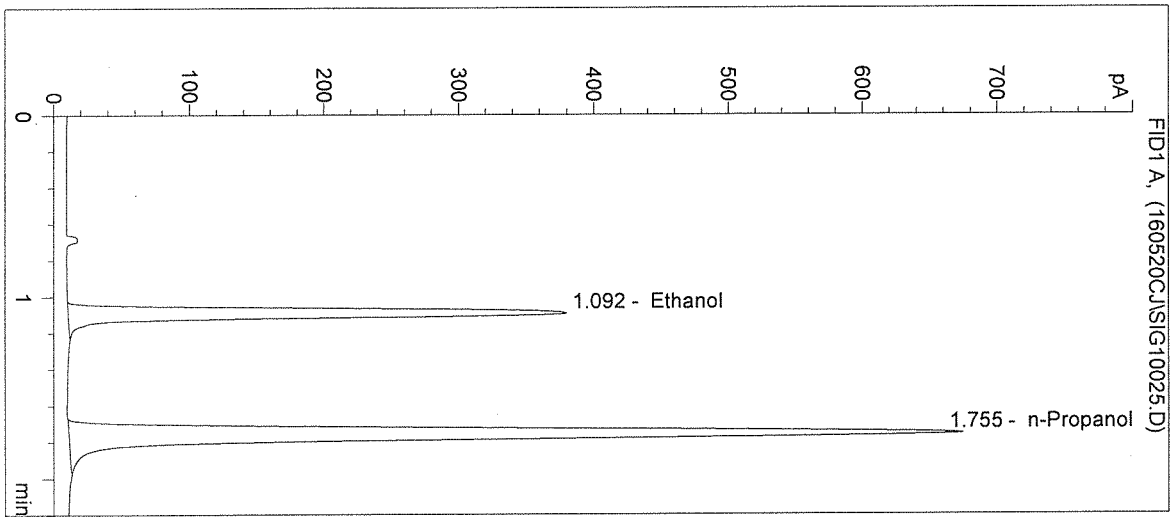
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160520CJ\SIG10024.D

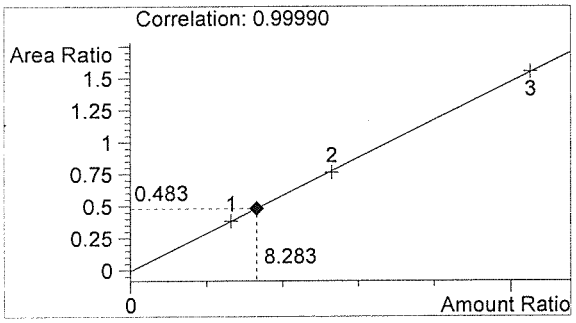
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/20/2016 3:40:57 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

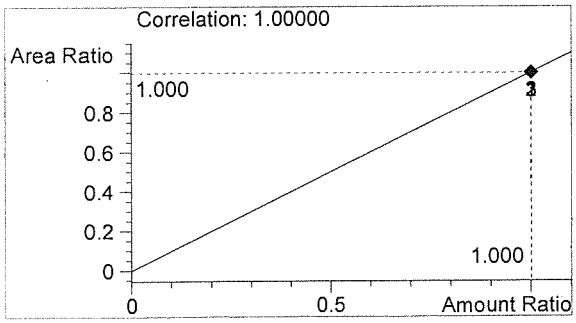
Sample Name: 16019-2
Operator: Chris Johnston
Location: Vial 25



#	Compound	Peak Area	RT (min)
1	Ethanol	1278	1.092
2	n-Propanol	2646	1.755



Ethanol 0.099 g/100mL



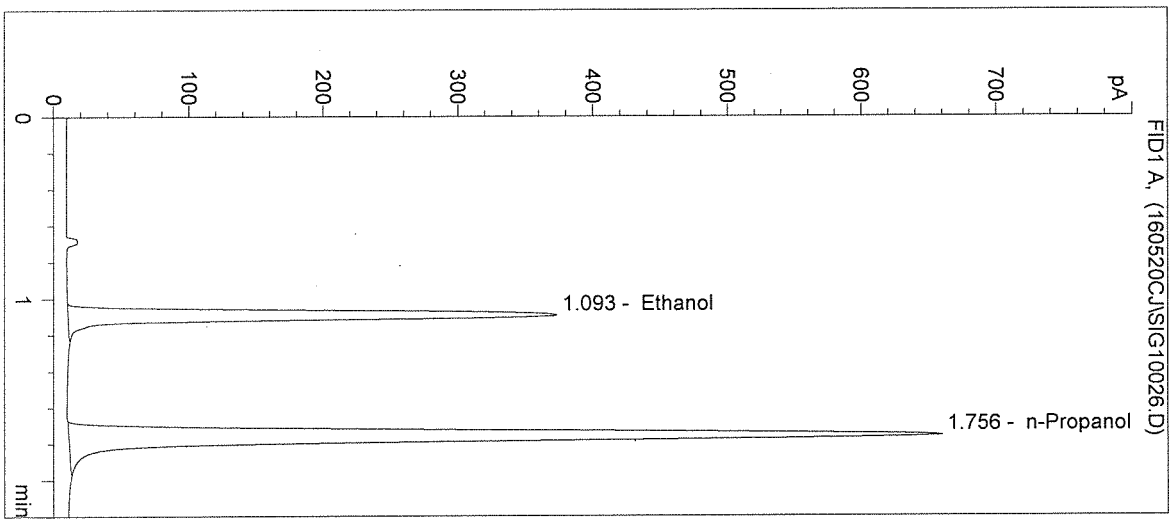
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160520CJ\SIG10025.D

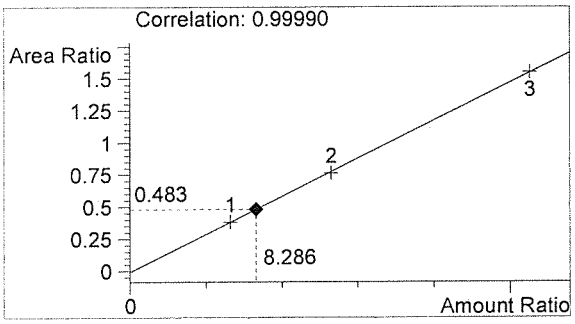
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/20/2016 3:44:10 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

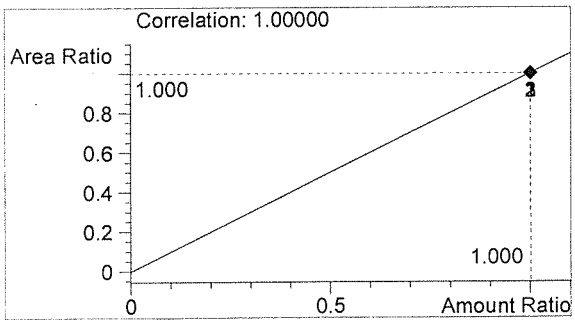
Sample Name: 16019-3
Operator: Chris Johnston
Location: Vial 26



#	Compound	Peak Area	RT (min)
1	Ethanol	1247	1.093
2	n-Propanol	2582	1.756



Ethanol 0.099 g/100mL



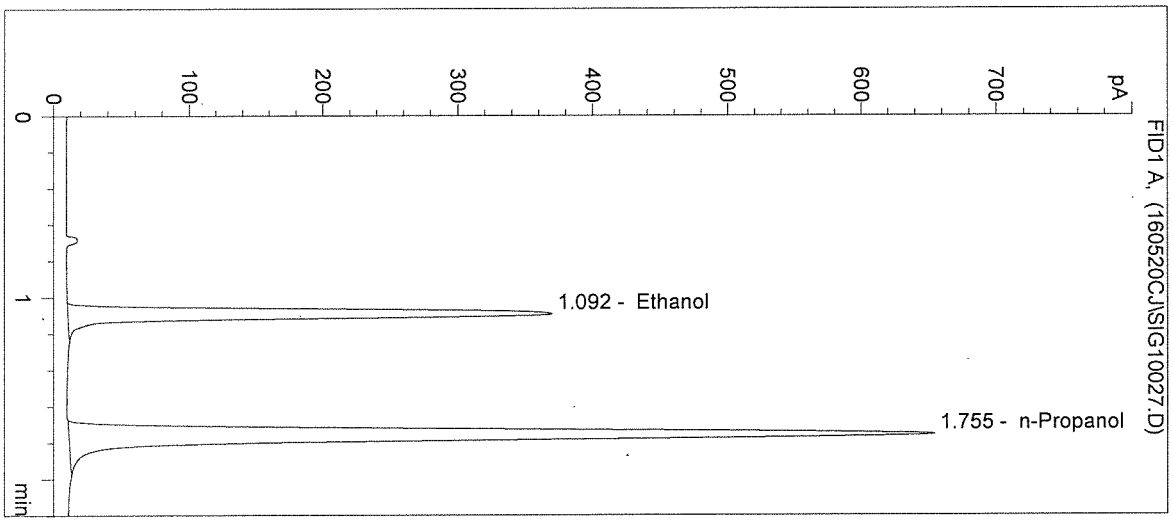
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160520CJ\SIG10026.D

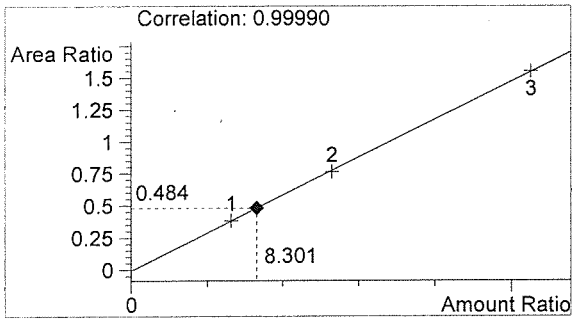
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/20/2016 3:47:24 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

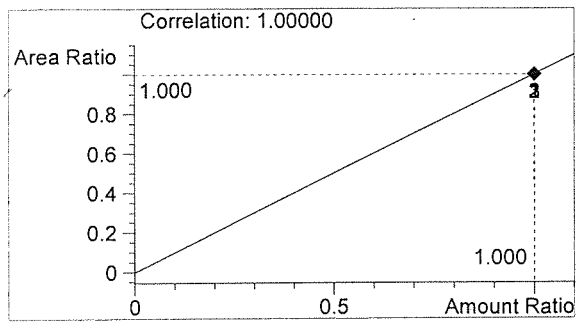
Sample Name: 16019-4
Operator: Chris Johnston
Location: Vial 27



#	Compound	Peak Area	RT (min)
1	Ethanol	1236	1.092
2	n-Propanol	2553	1.755



Ethanol 0.100 g/100mL



n-Propanol 0.012 g/100mL

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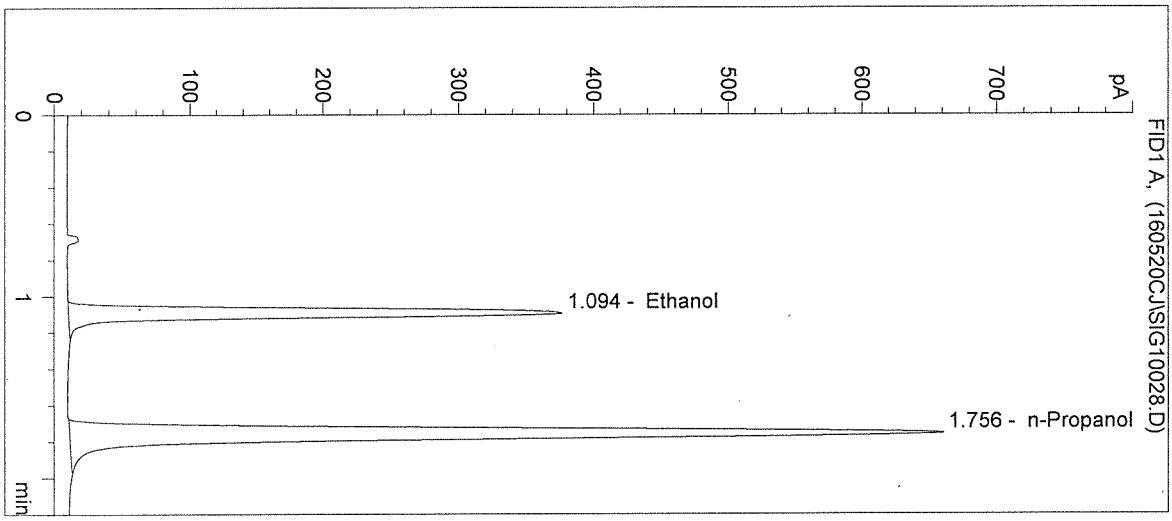
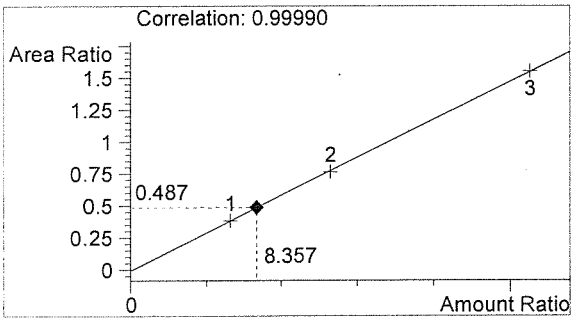
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/20/2016 3:50:37 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

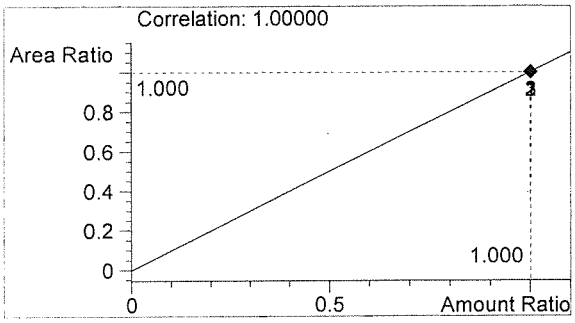
Sample Name: 16019-5
Operator: Chris Johnston
Location: Vial 28



#	Compound	Peak Area	RT (min)
1	Ethanol	1263	1.094
2	n-Propanol	2591	1.756



Ethanol 0.100 g/100mL



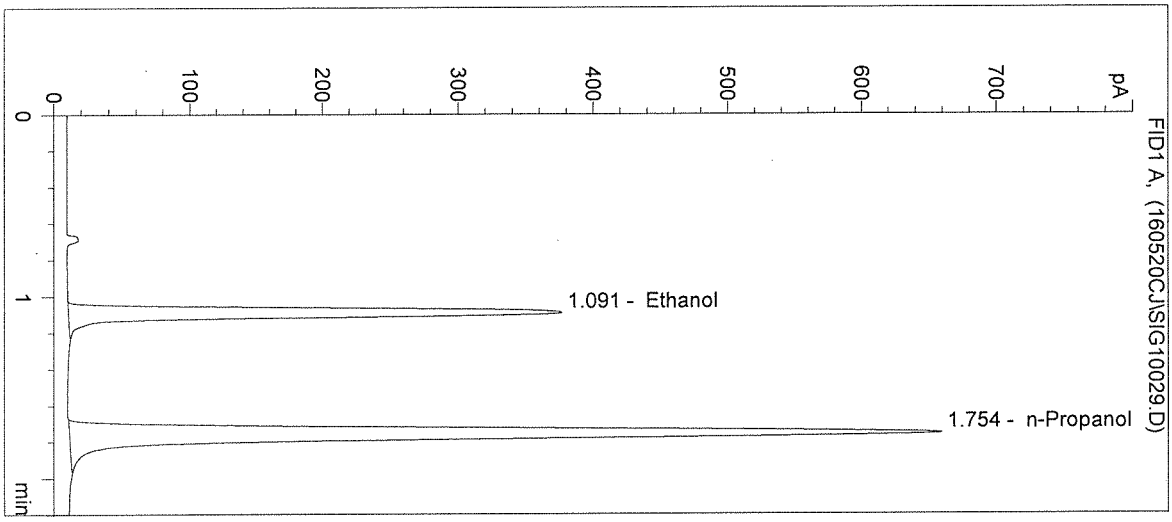
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160520CJ\SIG10028.D

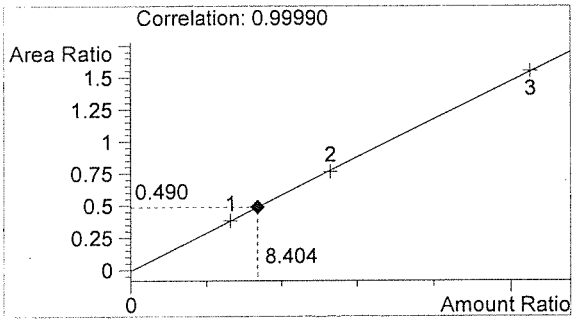
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/20/2016 3:53:50 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

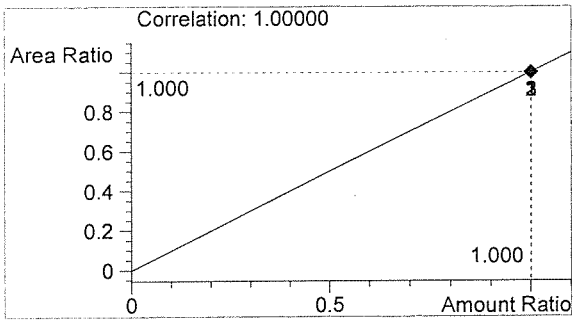
Sample Name: 0.10 CTRL
Operator: Chris Johnston
Location: Vial 29



#	Compound	Peak Area	RT (min)
1	Ethanol	1262	1.091
2	n-Propanol	2574	1.754



Ethanol 0.101 g/100mL



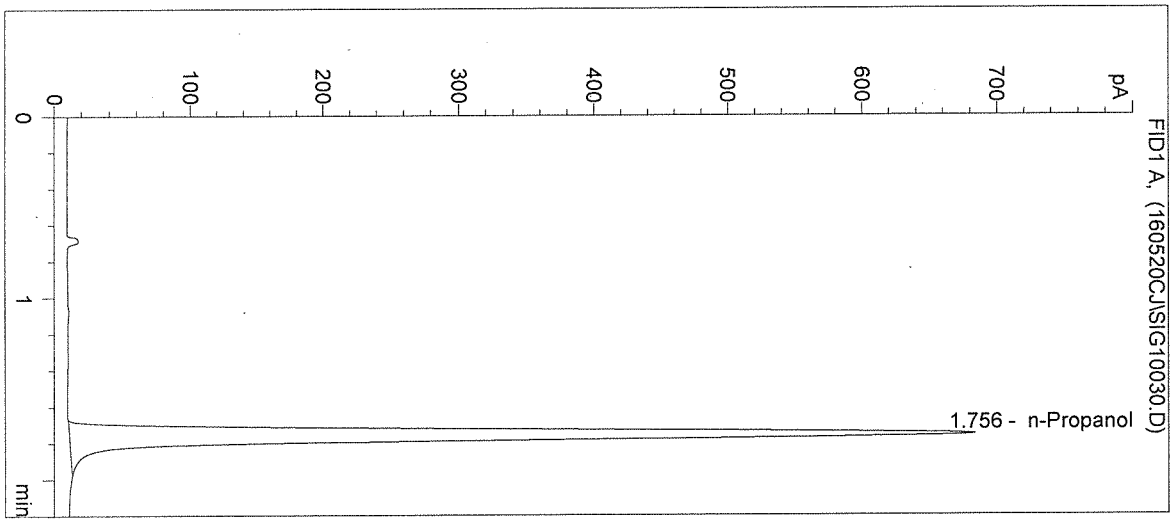
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160520CJ\SIG10029.D

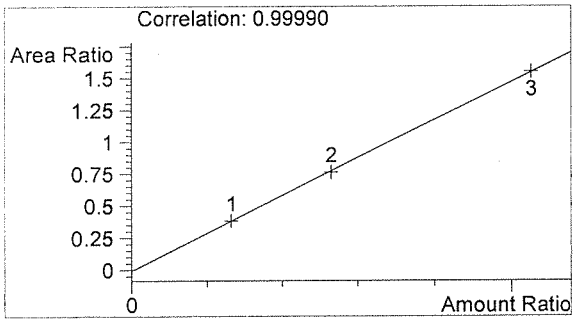
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/20/2016 3:57:03 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

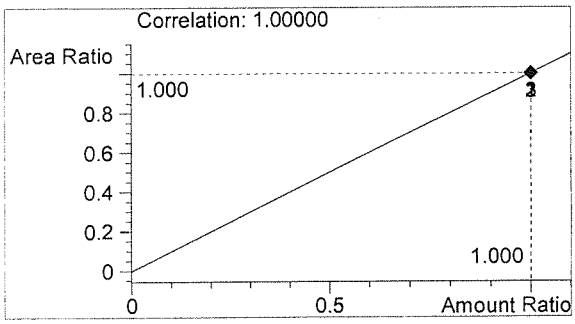
Sample Name: NEG CTRL
Operator: Chris Johnston
Location: Vial 30



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2679	1.756



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160520CJ\SIG10030.D

Sequence: C:\HPCHEM\1\SEQUENCE\ACQAP1.S

Sequence Parameters:

Operator:	Amanda Chandler
Data File Naming:	Prefix/Counter
Signal 1 Prefix:	SIG1
Signal 1 Counter:	0001
Signal 2 Prefix:	SIG2
Signal 2 Counter:	0001
Data Directory:	C:\HPCHEM\1\DATA\
Data Subdirectory:	160607AC
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
Ethanol Calibrator 1, E0416-01 - Exp. 10/01/2016
Ethanol Calibrator 2, E0416-02 - Exp. 10/01/2016
Ethanol Calibrator 3, E0416-03 - Exp. 10/01/2016
CTRL1 (0.04g/100mL), Lot # FN05011301 - Exp. 05/2018
CTRL2 (0.10g/100mL), Lot # FN08051301 - Exp. 10/2018
CTRL3 (0.20g/100mL), Lot # FN03211401 - Exp. 06/2019
Internal Standard Lot#P0516 - Exp. 08/31/2016

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	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL	SIMALC1	1	Ctrl Samp		
10	Vial 10	16019-1	SIMALC1	1	Sample		
11	Vial 11	16019-2	SIMALC1	1	Sample		
12	Vial 12	16019-3	SIMALC1	1	Sample		
13	Vial 13	16019-4	SIMALC1	1	Sample		
14	Vial 14	16019-5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL	SIMALC1	1	Ctrl Samp		

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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	

AR

Sequence: C:\HPCHEM\1\SEQUENCE\ACQAP1.S

Sequence Table (Back Injector):

No entries - empty table!

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

Calibration Table

Calib. Data Modified : Tuesday, June 07, 2016 8:50:42 AM

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]	Sig	Lvl	Amount [g/100mL]	Area	Amt/Area	Ref	Grp	Name
1.093	1	1	7.91100e-2	1003.43848	7.88389e-5	1		Ethanol
		2	1.59090e-1	1930.97351	8.23885e-5			
		3	3.15200e-1	3905.48779	8.07069e-5			
1.755	1	1	1.20000e-2	2764.83179	4.34023e-6	I1		n-Propanol
		2	1.20000e-2	2687.38647	4.46530e-6			
		3	1.20000e-2	2715.81519	4.41856e-6			

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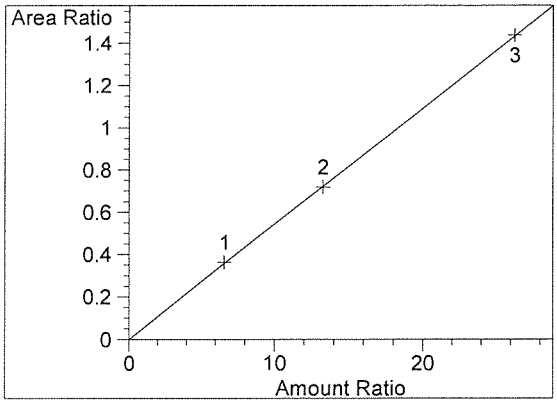
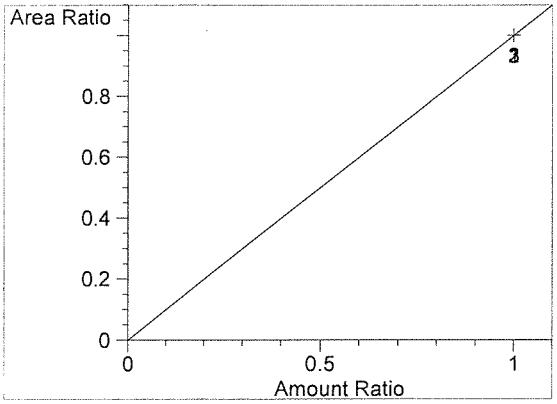
Peak Sum Table

No Entries in table

Calibration Curves



Ethanol at exp. RT: 1.093
FID1 A,
Correlation: 0.99998
Residual Std. Dev.: 0.00494
Formula: y = mx + b
m: 5.46887e-2
b: -6.35988e-4
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.755
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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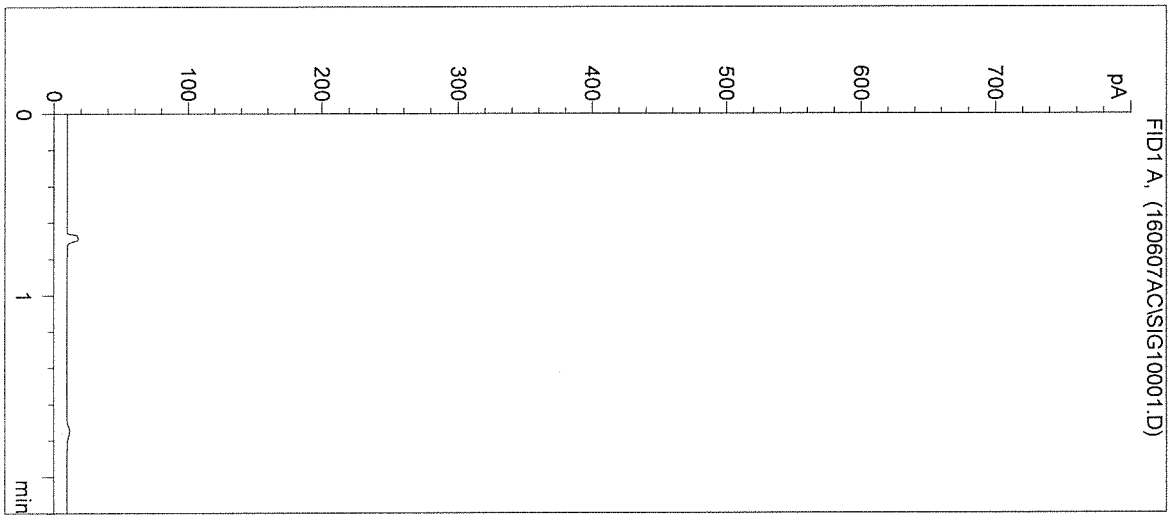
Jn 6/13/16

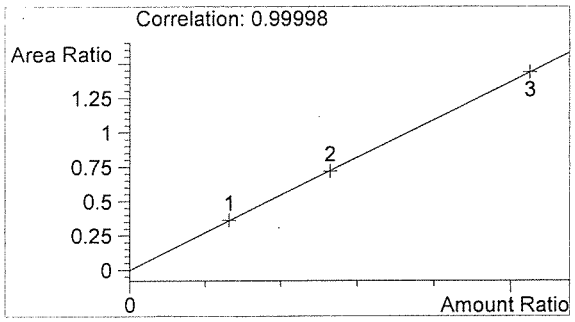
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 8:38:35 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

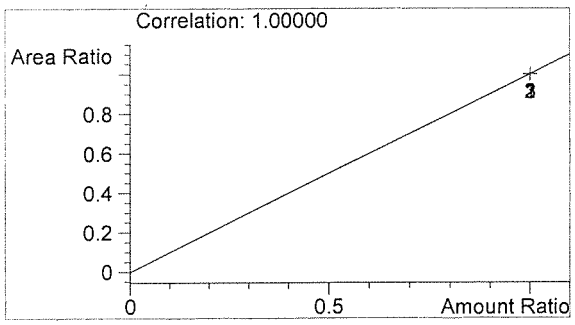
Sample Name: BLANK
Operator: Amanda Chandler
Location: Vial 1



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



Ethanol 0.000 g/100mL

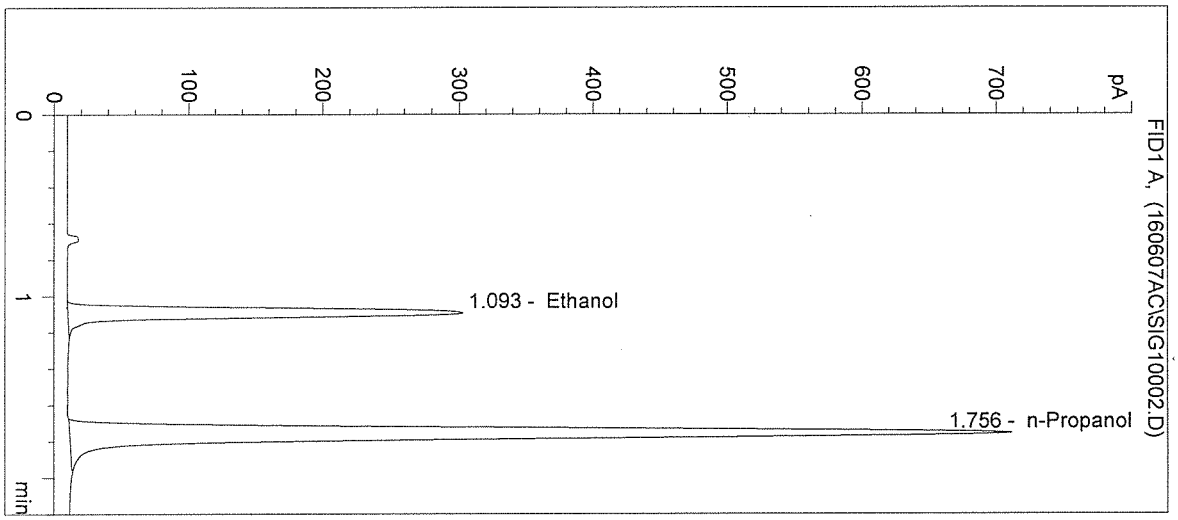


n-Propanol 0.000 g/100mL

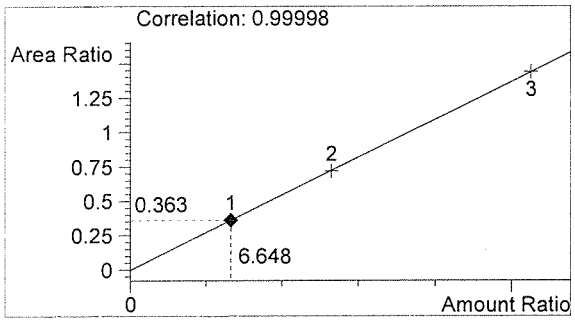
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 8:41:55 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

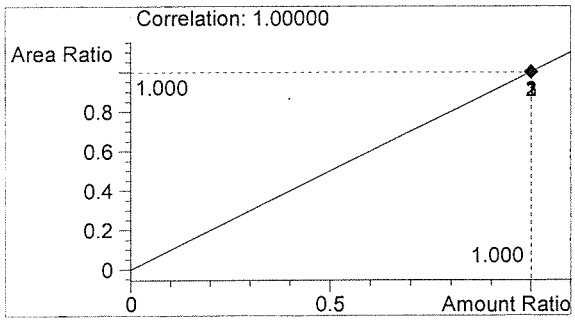
Sample Name: 0.079 CAL 1
Operator: Amanda Chandler
Location: Vial 2



#	Compound	Peak Area	RT (min)
1	Ethanol	1003	1.093
2	n-Propanol	2765	1.756



Ethanol 0.080 g/100mL

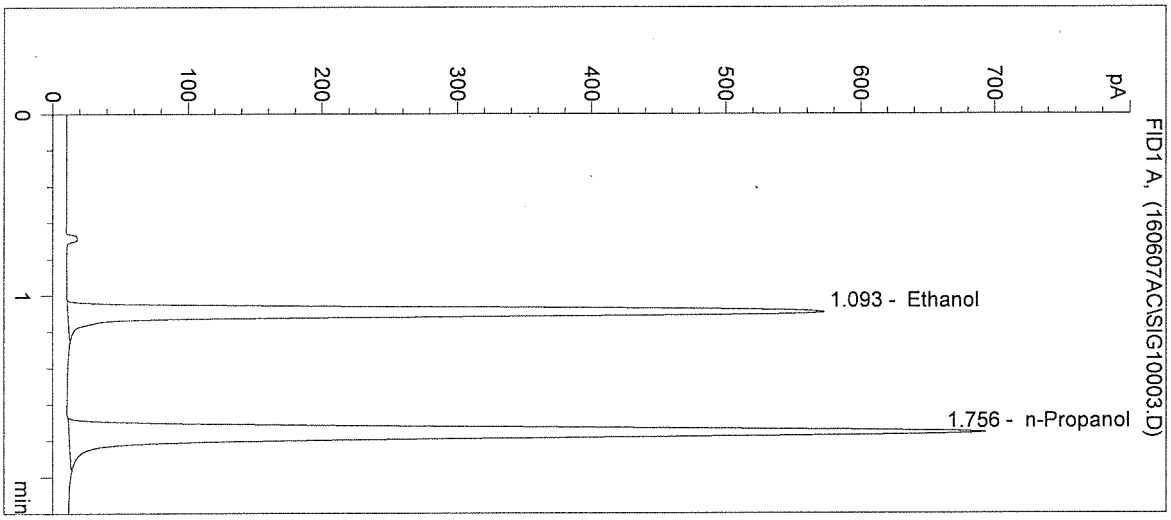


n-Propanol 0.012 g/100mL

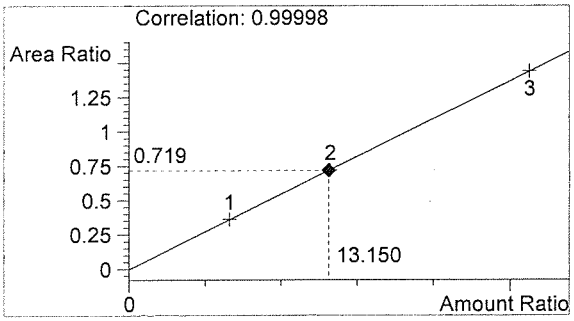
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 8:45:12 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

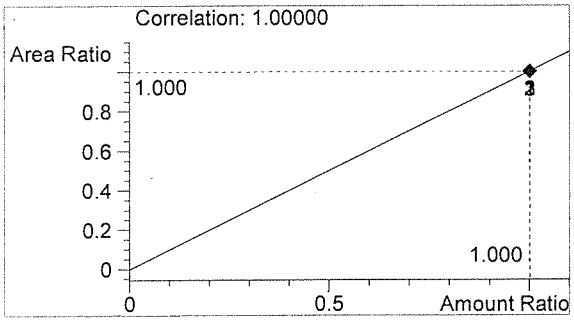
Sample Name: 0.158 CAL 2
Operator: Amanda Chandler
Location: Vial 3



#	Compound	Peak Area	RT (min)
1	Ethanol	1931	1.093
2	n-Propanol	2687	1.756



Ethanol 0.158 g/100mL

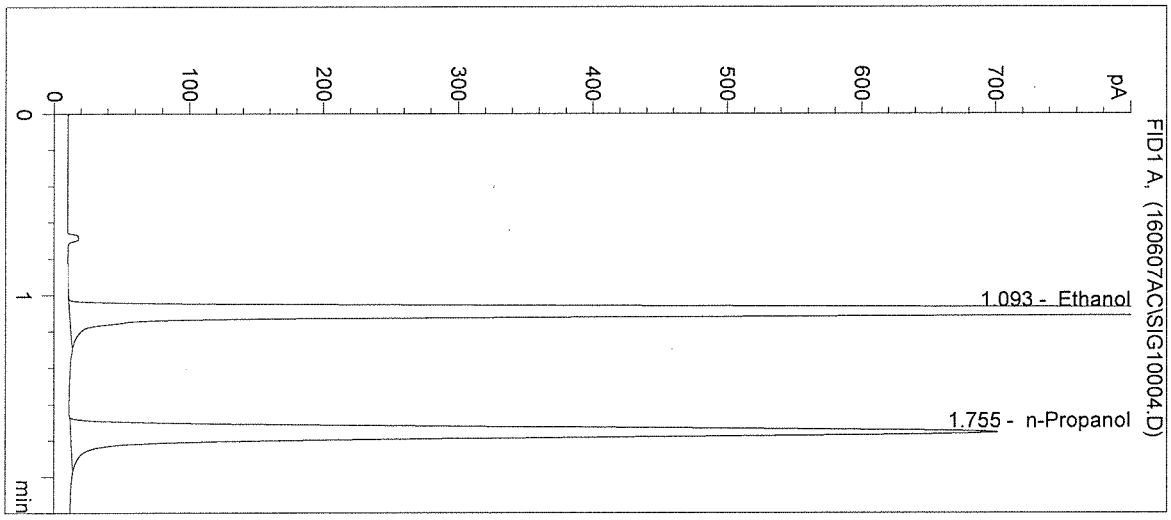


n-Propanol 0.012 g/100mL

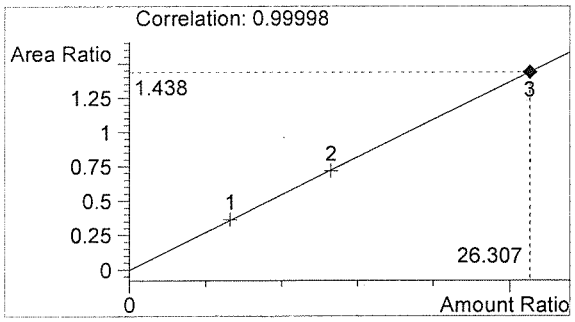
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 8:48:29 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

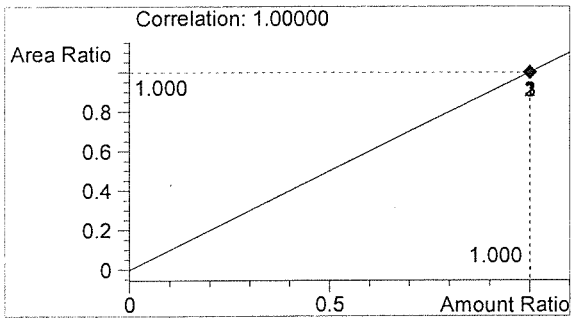
Sample Name: 0.316 CAL 3
Operator: Amanda Chandler
Location: Vial 4



#	Compound	Peak Area	RT (min)
1	Ethanol	3905	1.093
2	n-Propanol	2716	1.755



Ethanol 0.316 g/100mL

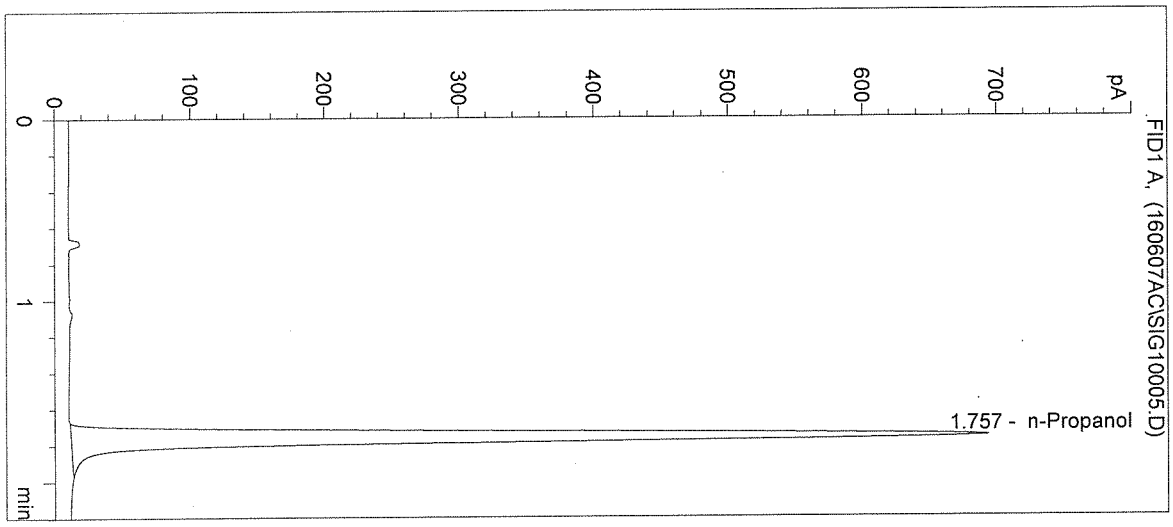


n-Propanol 0.012 g/100mL

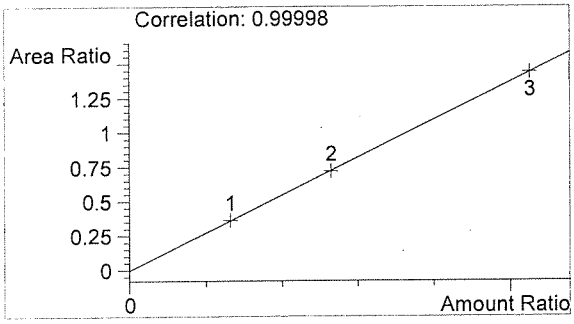
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 8:51:41 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

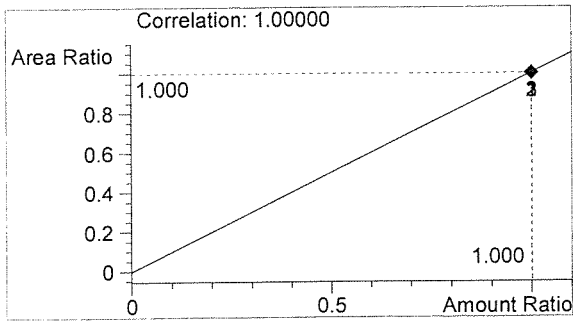
Sample Name: NEG CTRL
Operator: Amanda Chandler
Location: Vial 5



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2693	1.757



Ethanol 0.000 g/100mL



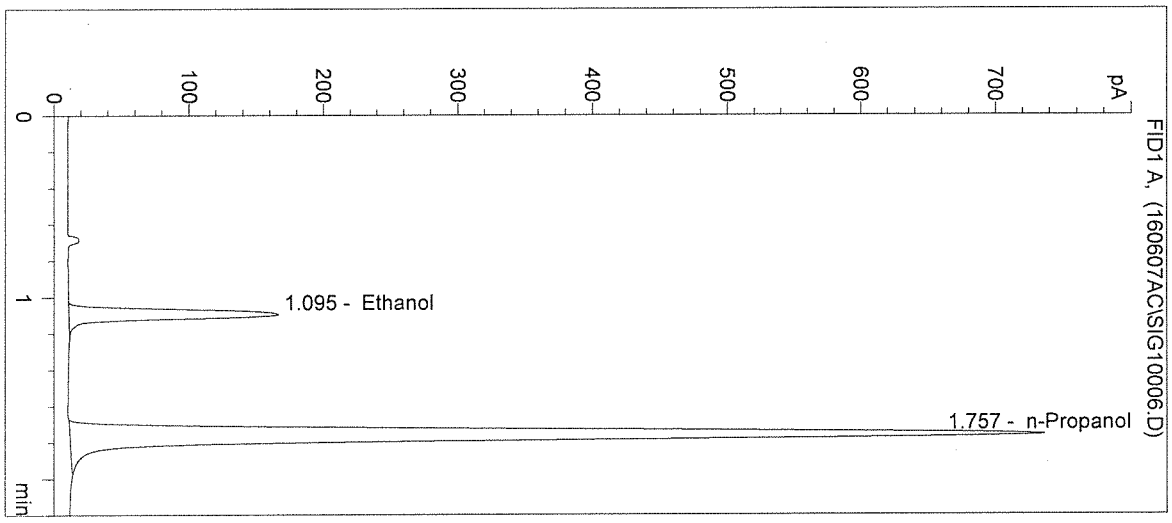
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160607AC\SIG10005.D

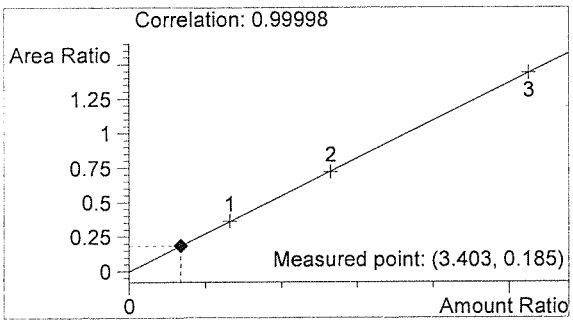
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 8:54:54 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

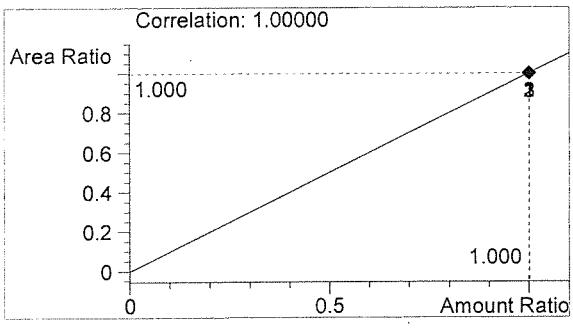
Sample Name: 0.04 CTRL
Operator: Amanda Chandler
Location: Vial 6



#	Compound	Peak Area	RT (min)
1	Ethanol	533	1.095
2	n-Propanol	2876	1.757



Ethanol 0.041 g/100mL



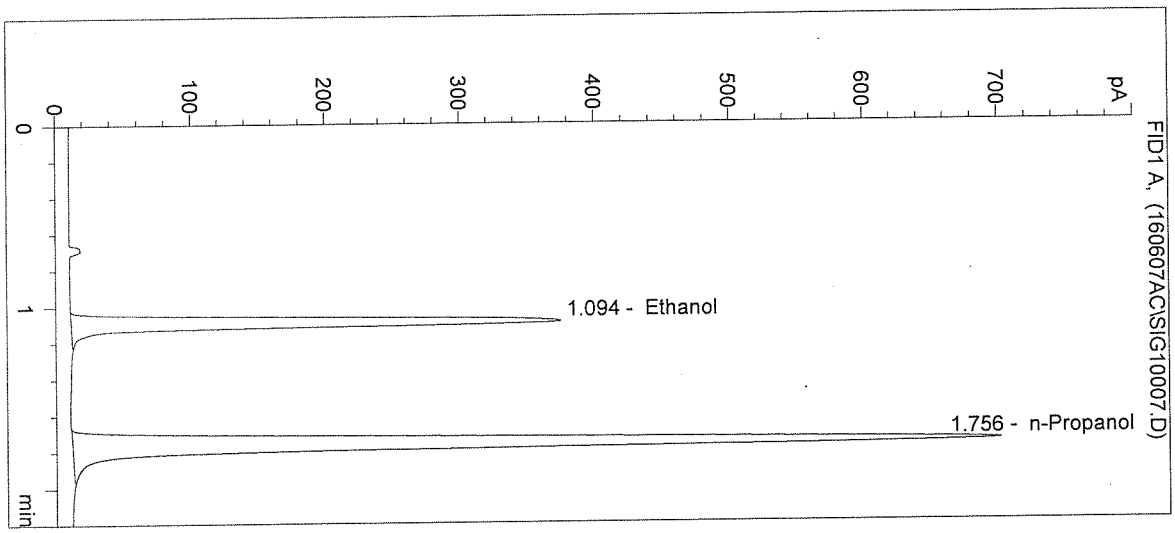
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160607AC\SIG10006.D

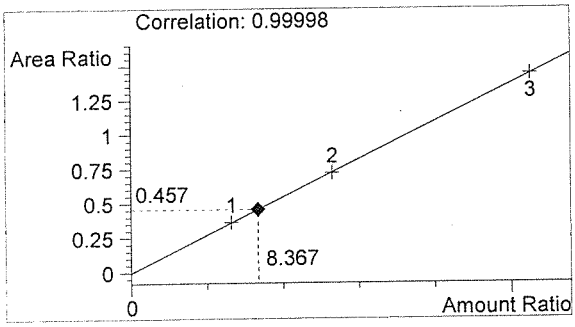
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 8:58:08 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

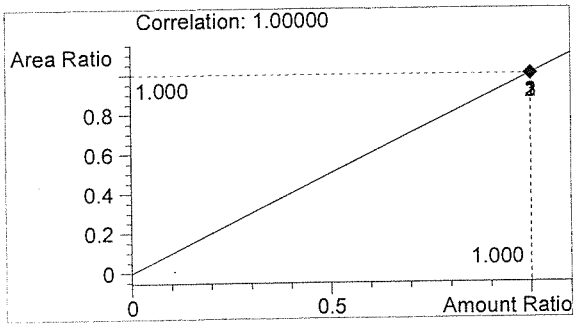
Sample Name: 0.10 CTRL
Operator: Amanda Chandler
Location: Vial 7



#	Compound	Peak Area	RT (min)
1	Ethanol	1255	1.094
2	n-Propanol	2746	1.756



Ethanol 0.100 g/100mL

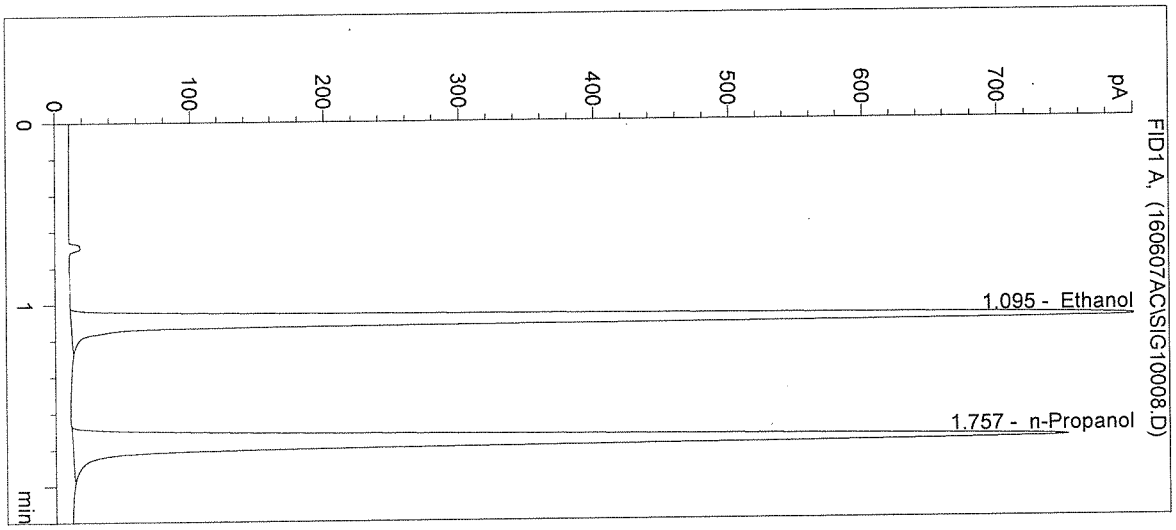


n-Propanol 0.012 g/100mL

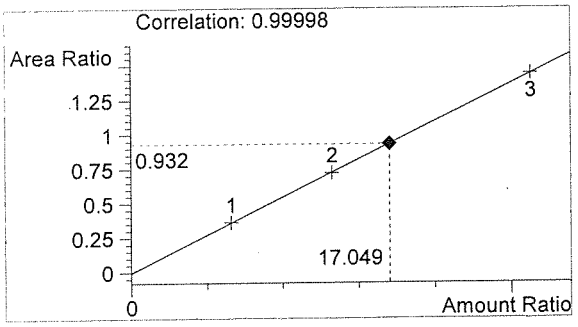
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 9:01:22 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

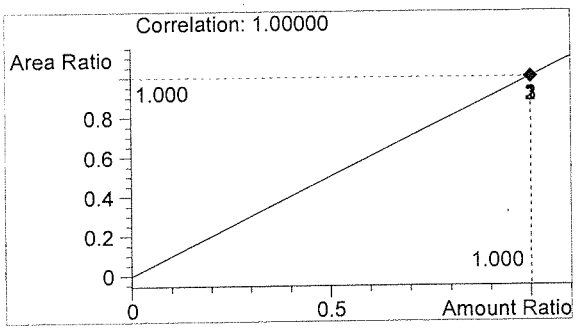
Sample Name: 0.20 CTRL
Operator: Amanda Chandler
Location: Vial 8



#	Compound	Peak Area	RT (min)
1	Ethanol	2737	1.095
2	n-Propanol	2937	1.757



Ethanol 0.205 g/100mL

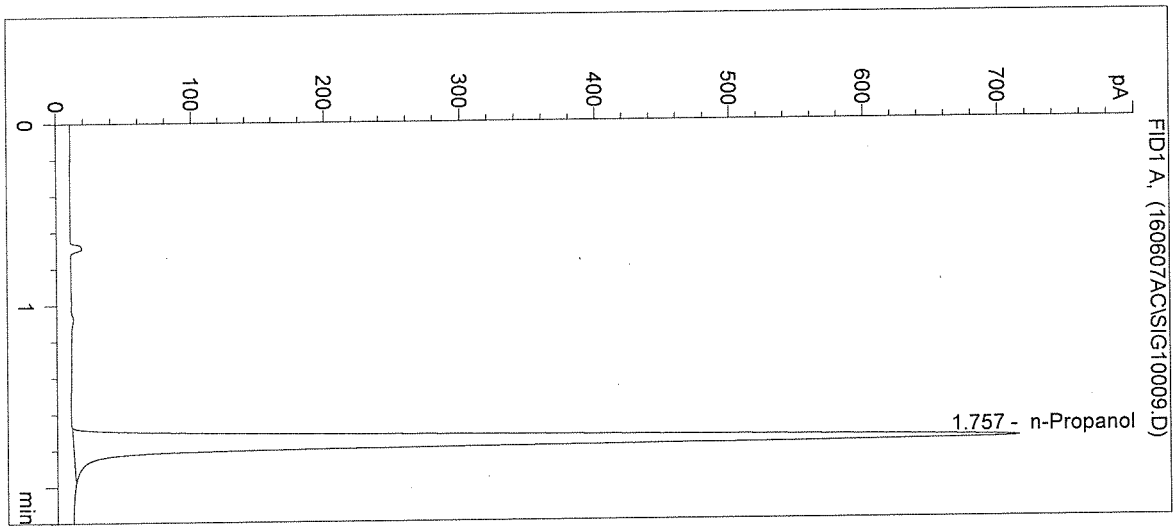


n-Propanol 0.012 g/100mL

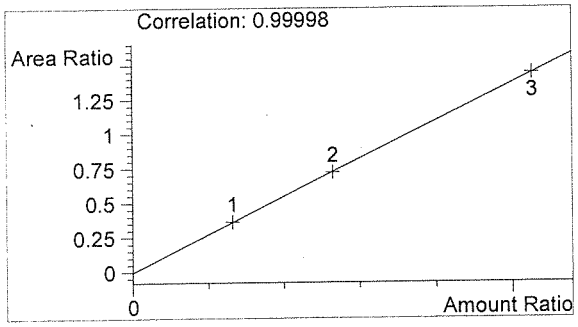
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 9:04:35 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

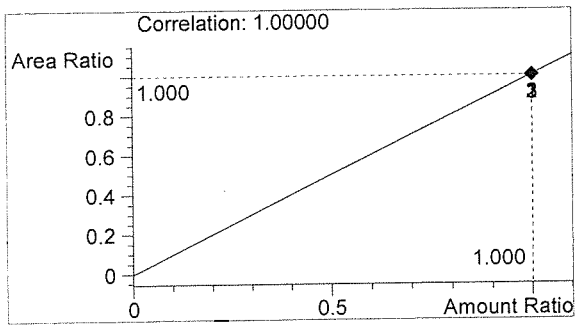
Sample Name: NEG CTRL
Operator: Amanda Chandler
Location: Vial 9



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2791	1.757



Ethanol 0.000 g/100mL

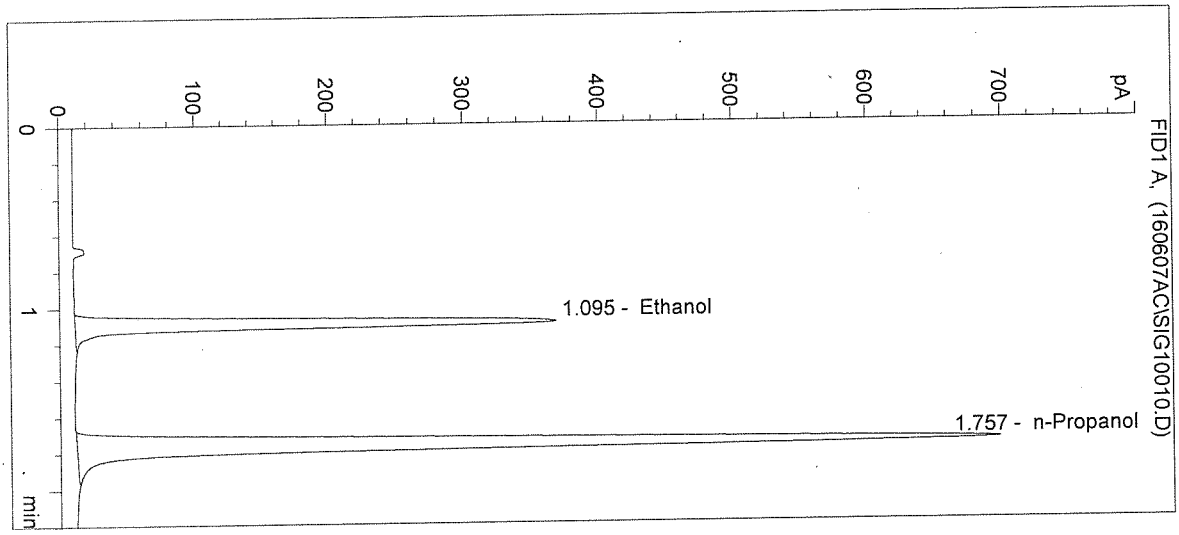


n-Propanol 0.012 g/100mL

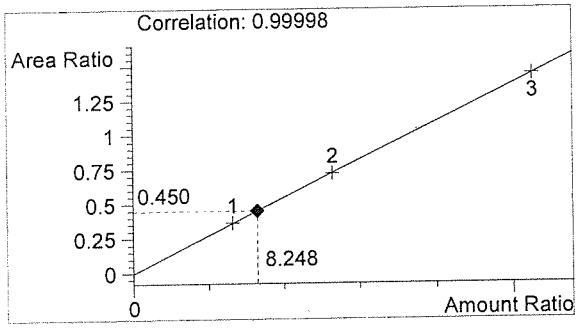
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 9:07:50 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

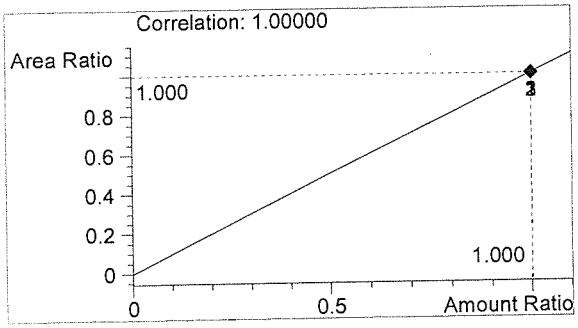
Sample Name: 16019-1
Operator: Amanda Chandler
Location: Vial 10



#	Compound	Peak Area	RT (min)
1	Ethanol	1228	1.095
2	n-Propanol	2726	1.757



Ethanol 0.099 g/100mL



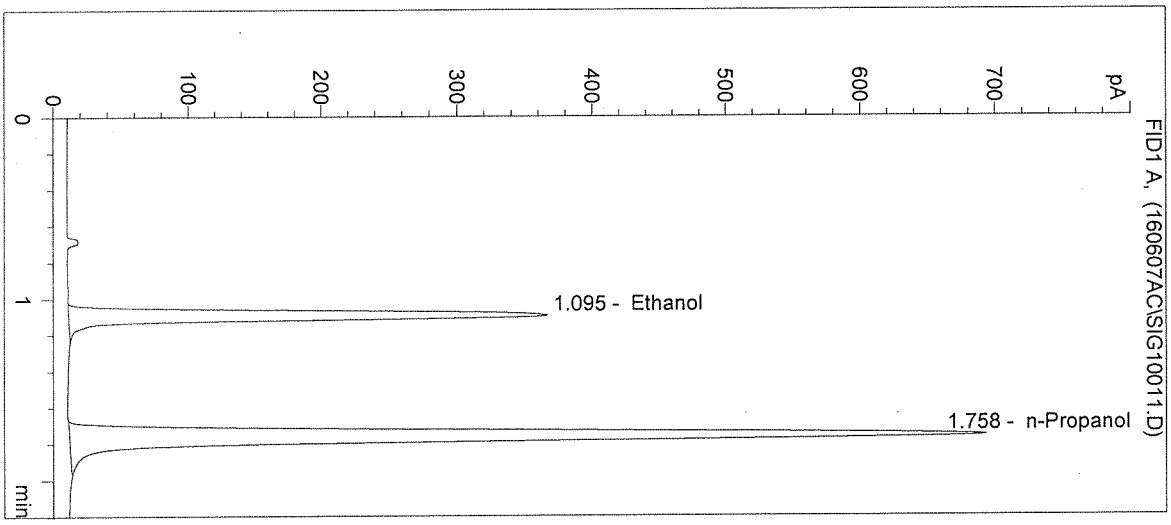
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160607AC\SIG10010.D

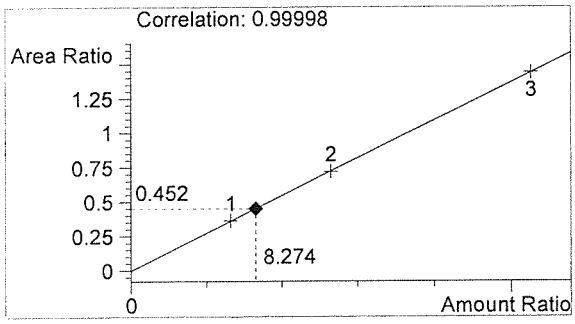
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 9:11:03 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

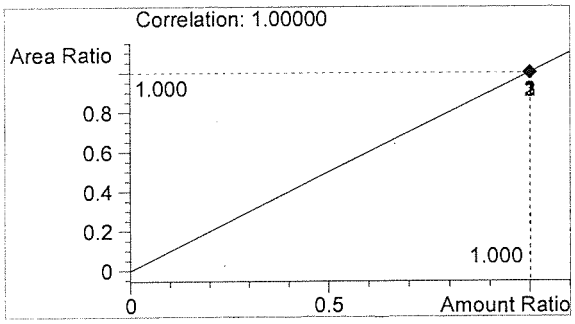
Sample Name: 16019-2
Operator: Amanda Chandler
Location: Vial 11



#	Compound	Peak Area	RT (min)
1	Ethanol	1225	1.095
2	n-Propanol	2711	1.758



Ethanol 0.099 g/100mL



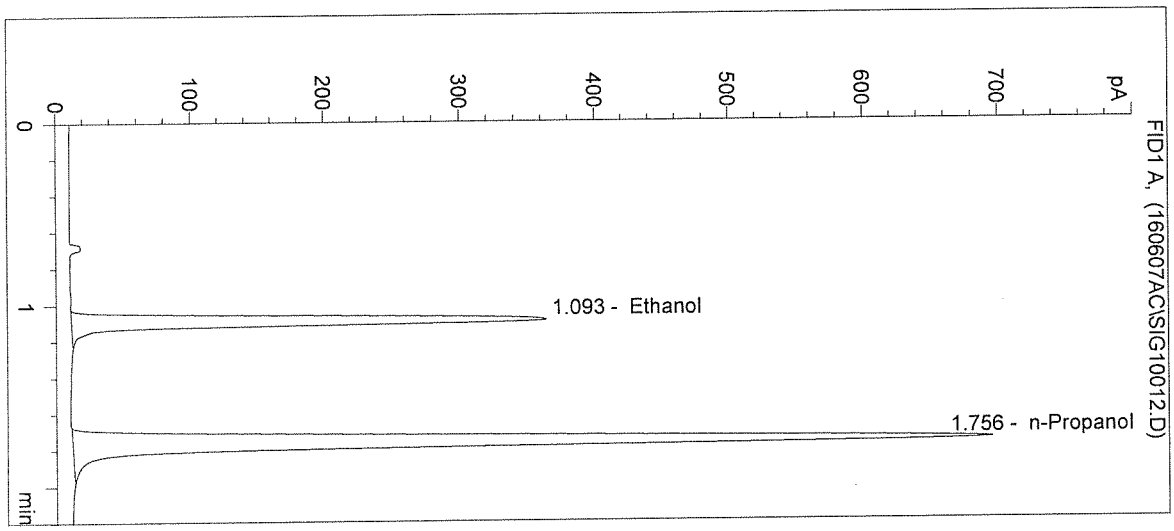
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160607AC\SIG10011.D

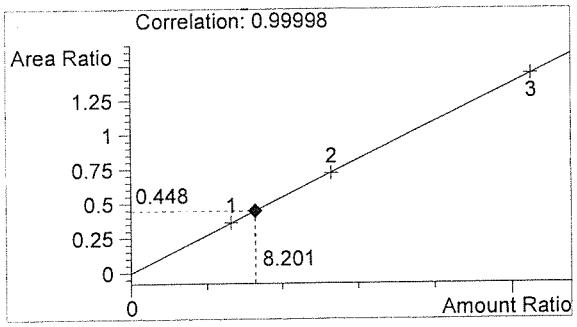
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 9:14:17 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

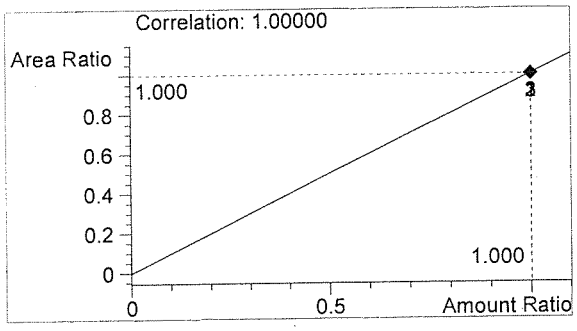
Sample Name: 16019-3
Operator: Amanda Chandler
Location: Vial 12



#	Compound	Peak Area	RT (min)
1	Ethanol	1213	1.093
2	n-Propanol	2707	1.756



Ethanol 0.098 g/100mL

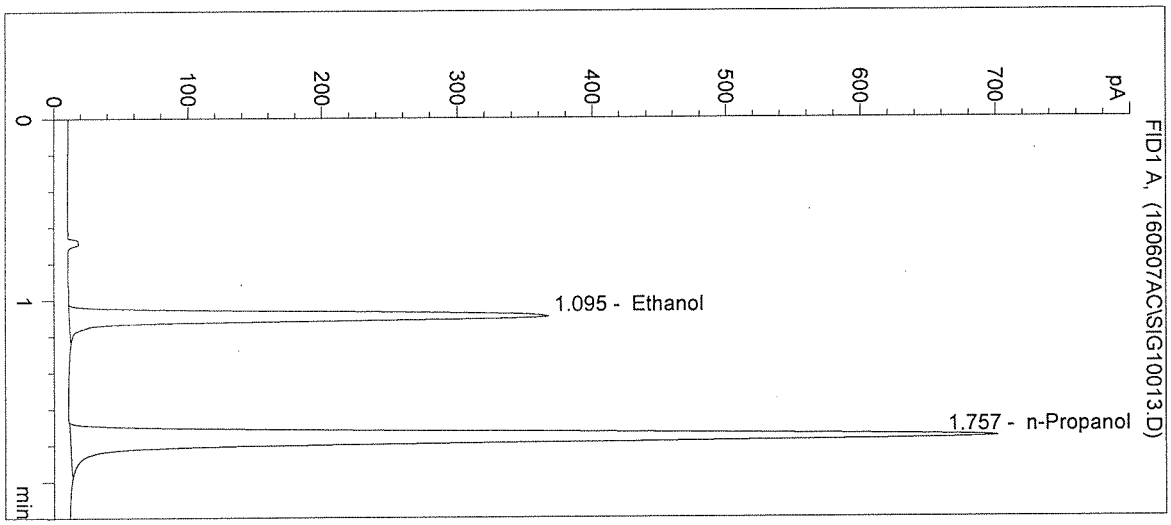


n-Propanol 0.012 g/100mL

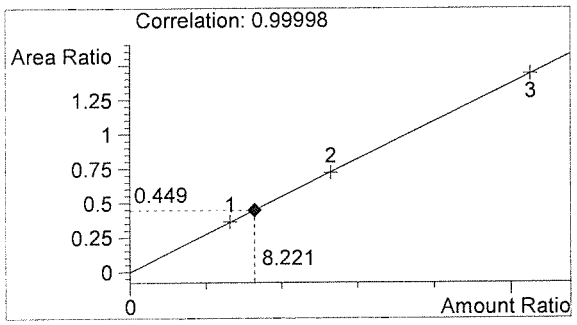
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 9:17:30 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

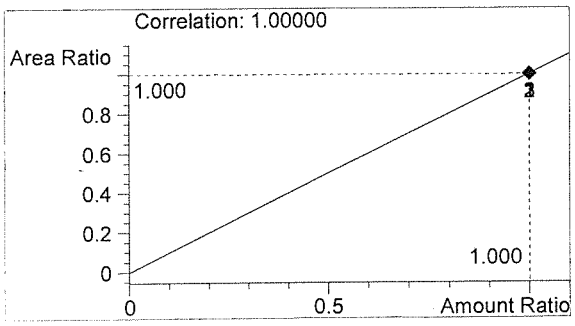
Sample Name: 16019-4
Operator: Amanda Chandler
Location: Vial 13



#	Compound	Peak Area	RT (min)
1	Ethanol	1232	1.095
2	n-Propanol	2745	1.757



Ethanol 0.099 g/100mL



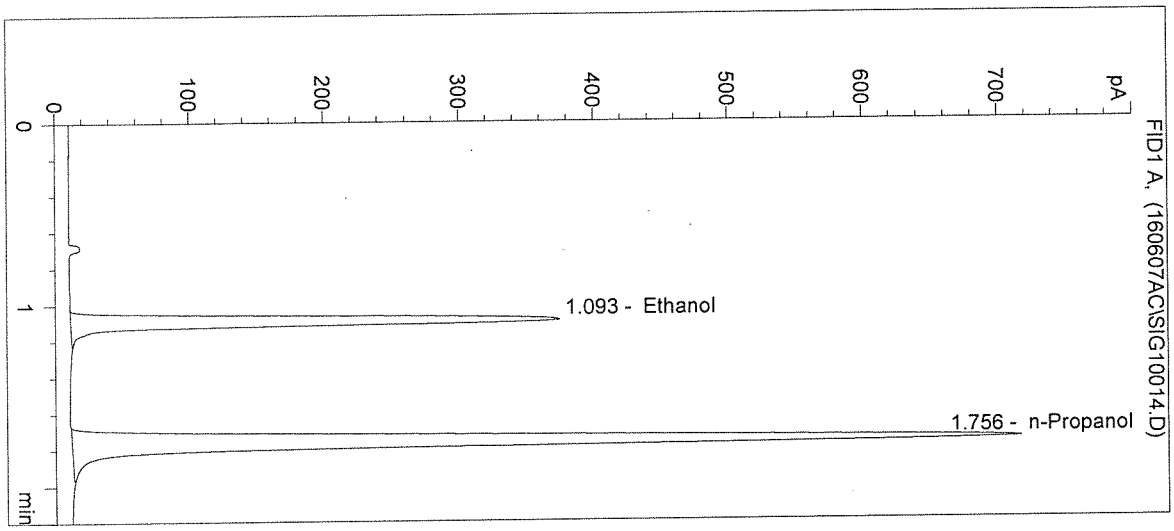
n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160607AC\SIG10013.D

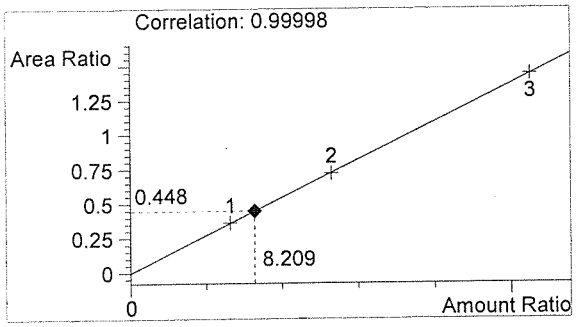
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 9:20:44 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

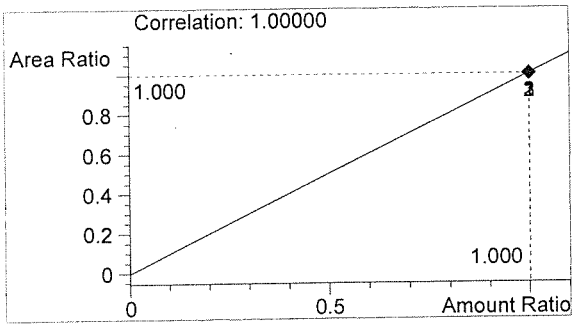
Sample Name: 16019-5
Operator: Amanda Chandler
Location: Vial 14



#	Compound	Peak Area	RT (min)
1	Ethanol	1254	1.093
2	n-Propanol	2796	1.756



Ethanol 0.099 g/100mL

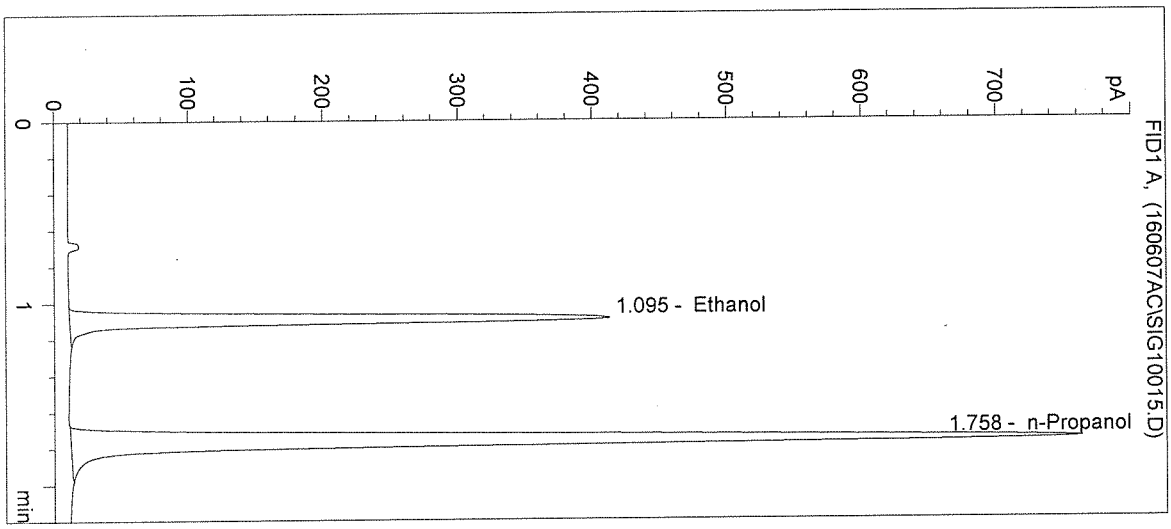


n-Propanol 0.012 g/100mL

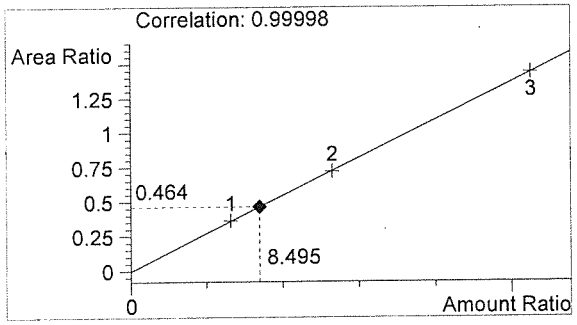
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 9:23:56 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

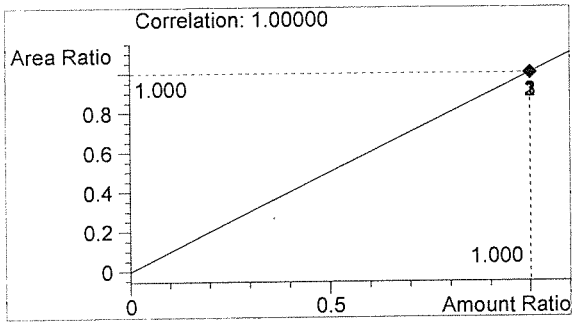
Sample Name: 0.10 CTRL
Operator: Amanda Chandler
Location: Vial 15



#	Compound	Peak Area	RT (min)
1	Ethanol	1392	1.095
2	n-Propanol	3000	1.758



Ethanol 0.102 g/100mL

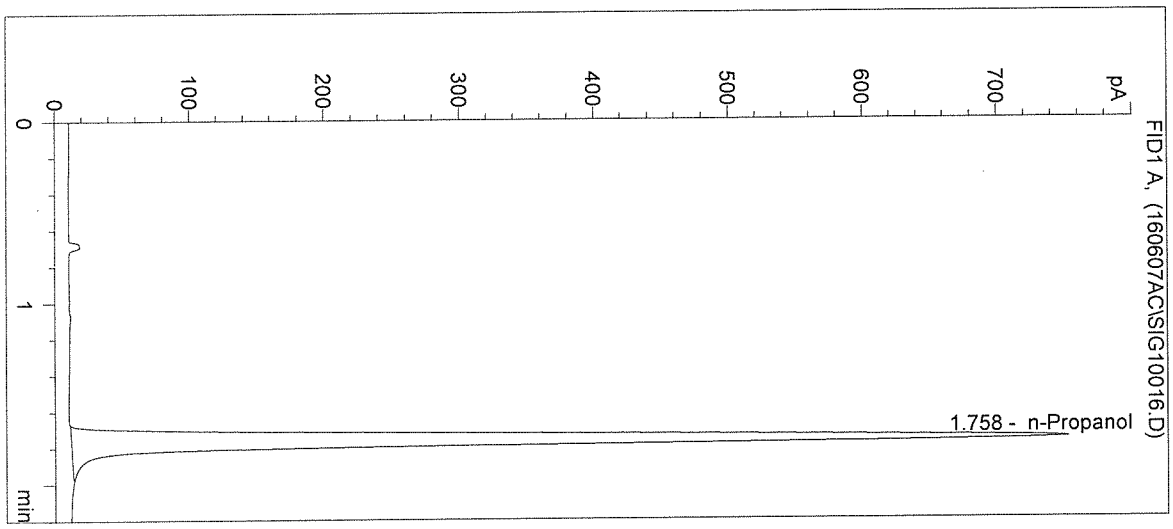


n-Propanol 0.012 g/100mL

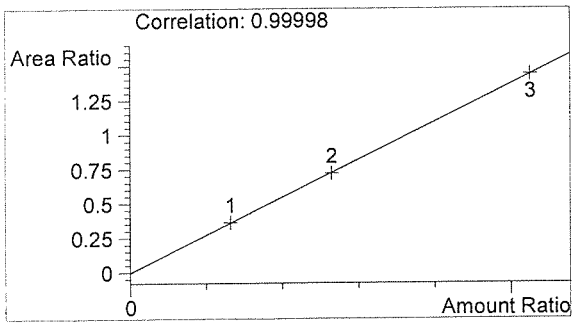
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/7/2016 9:27:09 AM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

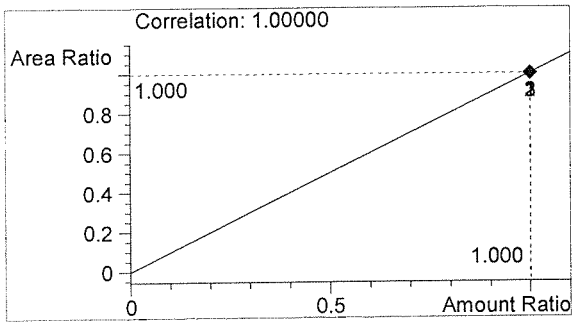
Sample Name: NEG CTRL
Operator: Amanda Chandler
Location: Vial 16



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2965	1.758



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160607AC\SIG10016.D

Sequence: C:\HPCHEM\1\SEQUENCE\KHQAP.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:	160527KH
Part of Methods to run:	According to Runtime Checklist
Barcode Reader:	not used
Shutdown Cmd/Macro:	none

Sequence Comment:
Ethanol Calibrator 1, E0416-01 - Exp. 10/01/2016
Ethanol Calibrator 2, E0416-02 - Exp. 10/01/2016
Ethanol Calibrator 3, E0416-03 - Exp. 10/01/2016
CTRL1 (0.04g/100mL), Lot # FN05011301 - Exp. 05/2018
CTRL2 (0.10g/100mL), Lot # FN08051301 - Exp. 10/2018
CTRL3 (0.20g/100mL), Lot # FN03211401 - Exp. 06/2019
Internal Standard Lot#P0316 - Exp. 06/29/2016

Calibration vials 1-9 filed with 16017.

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	SIMALC1	1	Ctrl Samp		
6	Vial 6	0.04 CTRL	SIMALC1	1	Ctrl Samp		
7	Vial 7	0.10 CTRL	SIMALC1	1	Ctrl Samp		
8	Vial 8	0.20 CTRL	SIMALC1	1	Ctrl Samp		
9	Vial 9	NEG CTRL	SIMALC1	1	Ctrl Samp		
10	Vial 10	16017-1	SIMALC1	1	Sample		
11	Vial 11	16017-2	SIMALC1	1	Sample		
12	Vial 12	16017-3	SIMALC1	1	Sample		
13	Vial 13	16017-4	SIMALC1	1	Sample		
14	Vial 14	16017-5	SIMALC1	1	Sample		
15	Vial 15	0.10 CTRL	SIMALC1	1	Ctrl Samp		
16	Vial 16	NEG CTRL	SIMALC1	1	Ctrl Samp		
17	Vial 17	16018-1	SIMALC1	1	Sample		
18	Vial 18	16018-2	SIMALC1	1	Sample		
19	Vial 19	16018-3	SIMALC1	1	Sample		
20	Vial 20	16018-4	SIMALC1	1	Sample		
21	Vial 21	16018-5	SIMALC1	1	Sample		
22	Vial 22	0.10 CTRL	SIMALC1	1	Ctrl Samp		
23	Vial 23	NEG CTRL	SIMALC1	1	Ctrl Samp		
24	Vial 24	16019-1	SIMALC1	1	Sample		
25	Vial 25	16019-2	SIMALC1	1	Sample		
26	Vial 26	16019-3	SIMALC1	1	Sample		

16019
fm 6/13/16

KH

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

Line	Location	SampleName	Method	Inj	SampleType	InjVolume	DataFile
27	Vial 27	16019-4	SIMALC1	1	Sample		
28	Vial 28	16019-5	SIMALC1	1	Sample		
29	Vial 29	0.10 CTRL	SIMALC1	1	Ctrl Samp		
30	Vial 30	NEG CTRL	SIMALC1	1	Ctrl Samp		
31	Vial 31	16020-1	SIMALC1	1	Sample		
32	Vial 32	16020-2	SIMALC1	1	Sample		
33	Vial 33	16020-3	SIMALC1	1	Sample		
34	Vial 34	16020-4	SIMALC1	1	Sample		
35	Vial 35	16020-5	SIMALC1	1	Sample		
36	Vial 36	0.10 CTRL	SIMALC1	1	Ctrl Samp		
37	Vial 37	NEG CTRL	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!

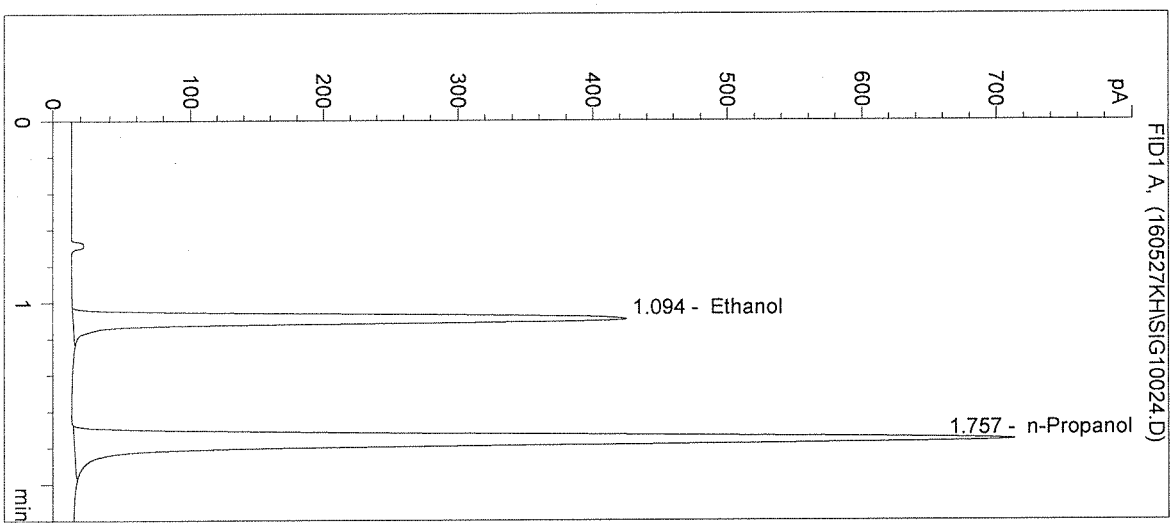
16019
6/13/16

KH

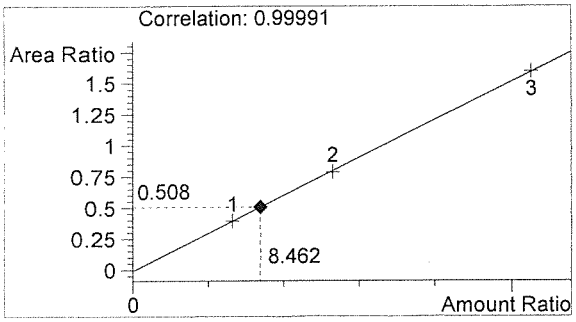
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/27/2016 12:40:09 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

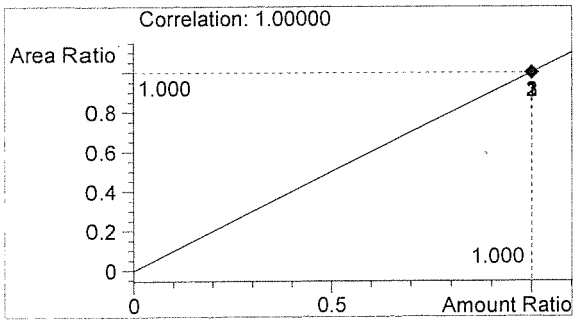
Sample Name: 16019-1
Operator: Katie Harris
Location: Vial 24



#	Compound	Peak Area	RT (min)
1	Ethanol	1407	1.094
2	n-Propanol	2773	1.757



Ethanol 0.102 g/100mL



n-Propanol 0.012 g/100mL

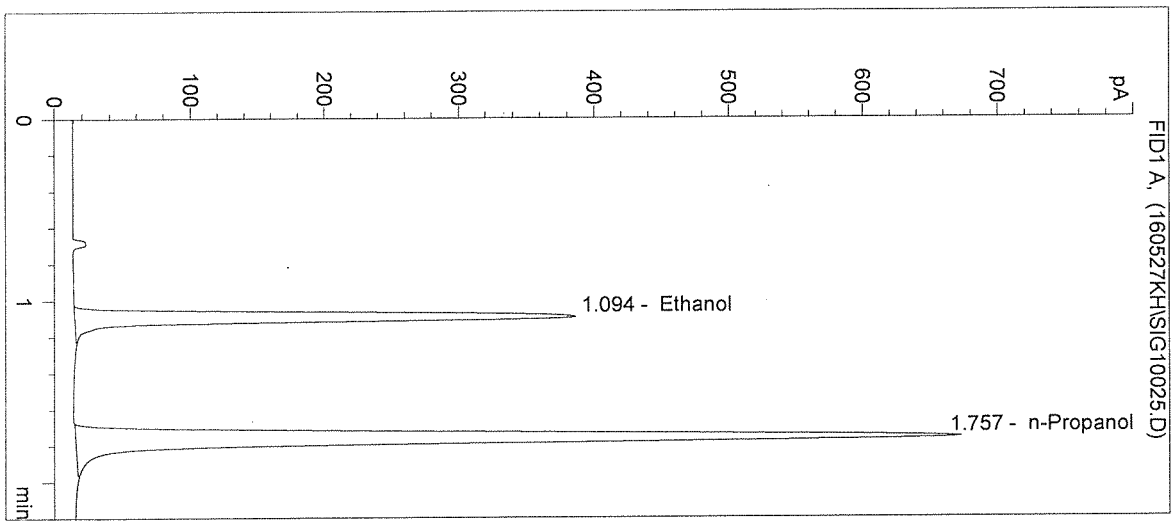
Data File: C:\HPCHEM\1\DATA\160527KH\SIG10024.D

KH

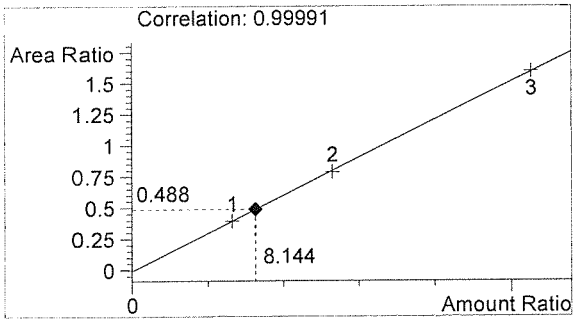
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/27/2016 12:43:22 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

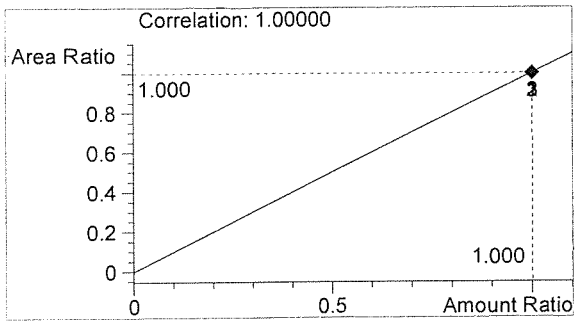
Sample Name: 16019-2
Operator: Katie Harris
Location: Vial 25



#	Compound	Peak Area	RT (min)
1	Ethanol	1275	1.094
2	n-Propanol	2611	1.757



Ethanol 0.098 g/100mL



n-Propanol 0.012 g/100mL

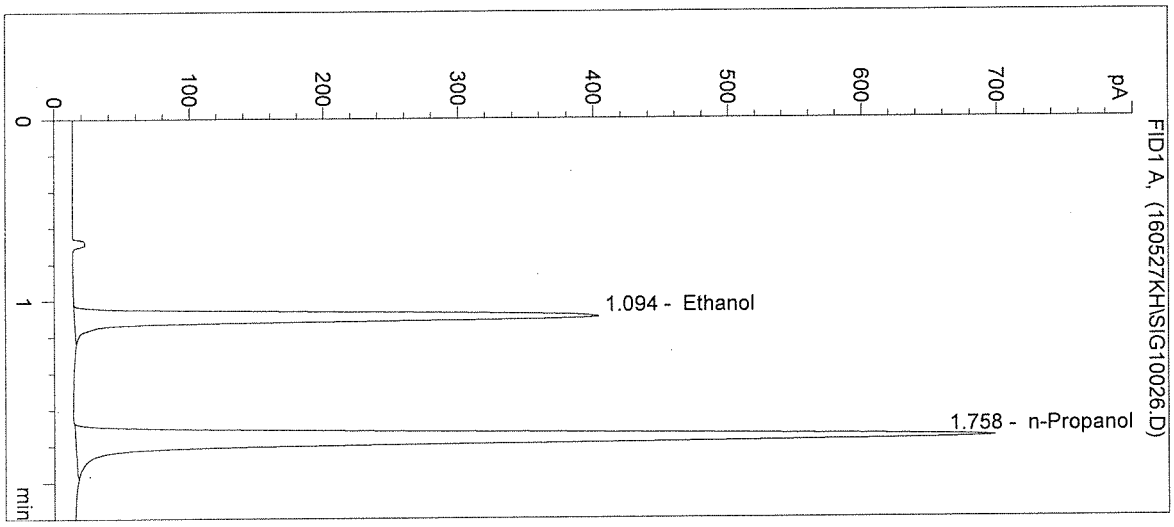
Data File: C:\HPCHEM\1\DATA\160527KH\SIG10025.D

KH

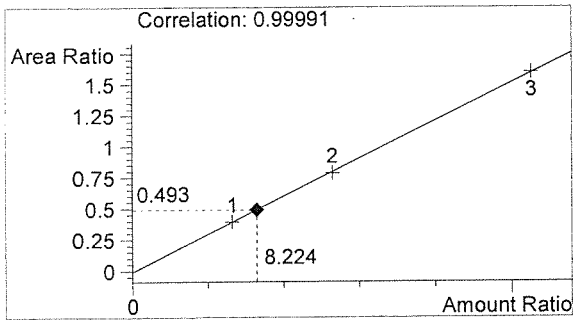
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/27/2016 12:46:35 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

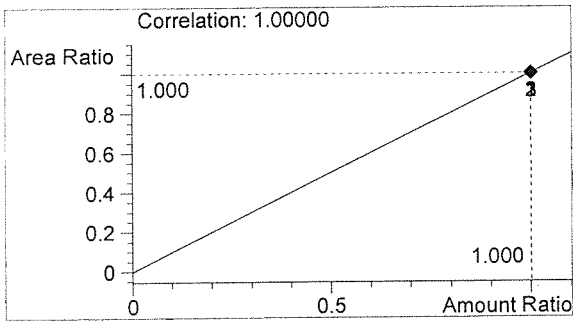
Sample Name: 16019-3
Operator: Katie Harris
Location: Vial 26



#	Compound	Peak Area	RT (min)
1	Ethanol	1341	1.094
2	n-Propanol	2720	1.758



Ethanol 0.099 g/100mL



n-Propanol 0.012 g/100mL

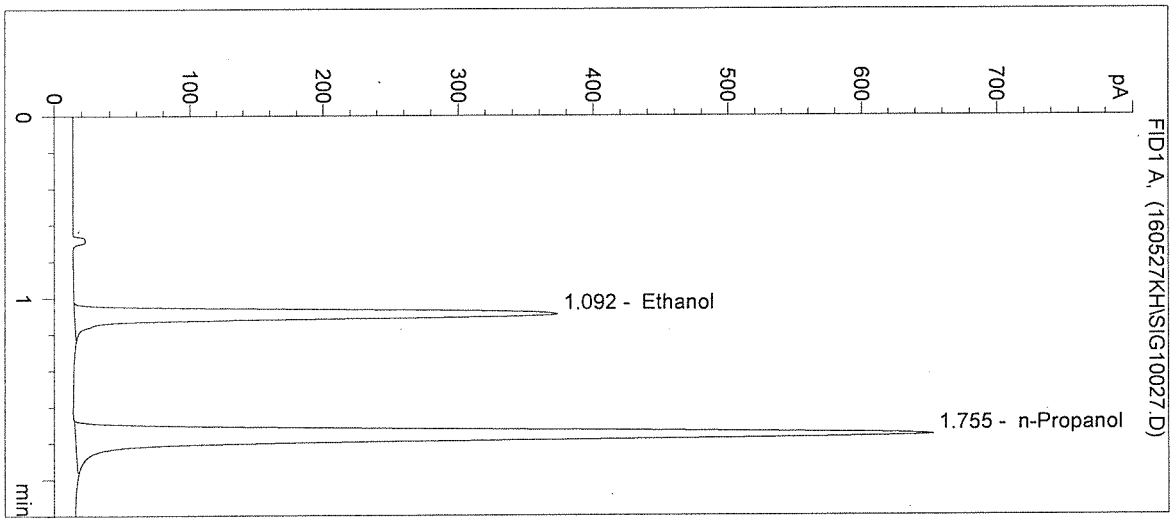
Data File: C:\HPCHEM\1\DATA\160527KH\SIG10026.D

KH

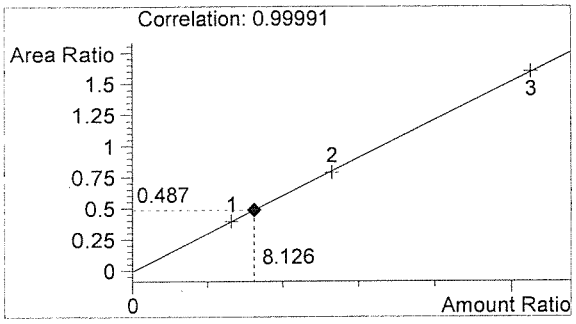
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/27/2016 12:49:48 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

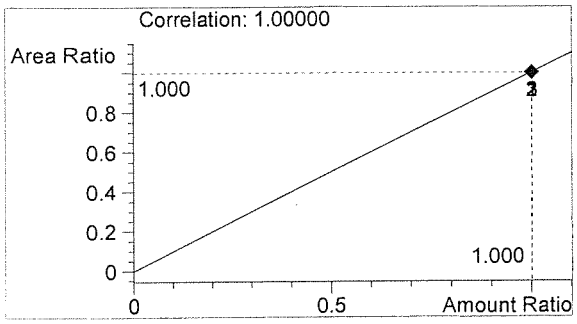
Sample Name: 16019-4
Operator: Katie Harris
Location: Vial 27



#	Compound	Peak Area	RT (min)
1	Ethanol	1232	1.092
2	n-Propanol	2529	1.755



Ethanol 0.098 g/100mL



n-Propanol 0.012 g/100mL

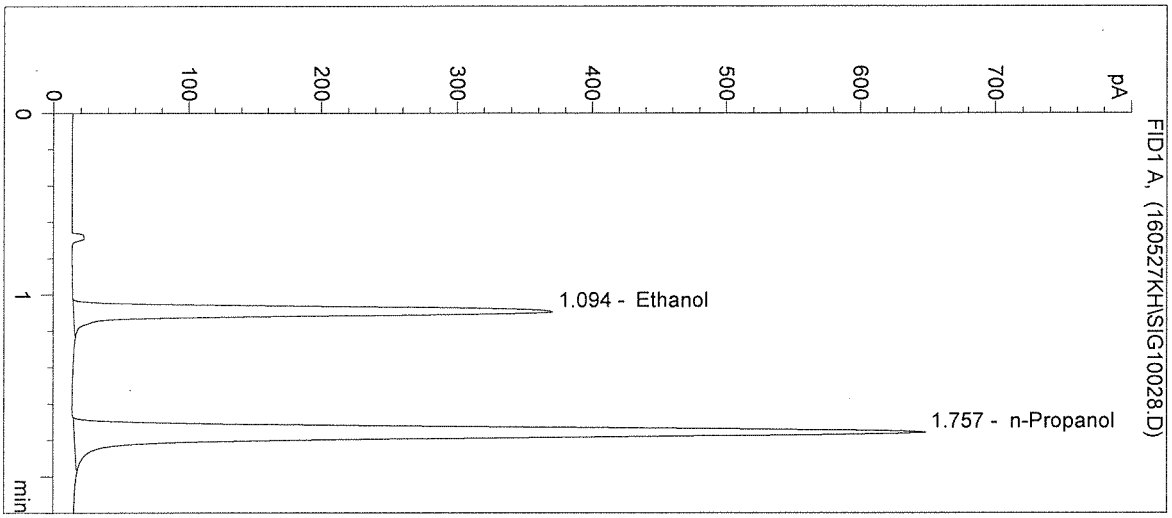
Data File: C:\HPCHEM\1\DATA\160527KH\SIG10027.D

KH

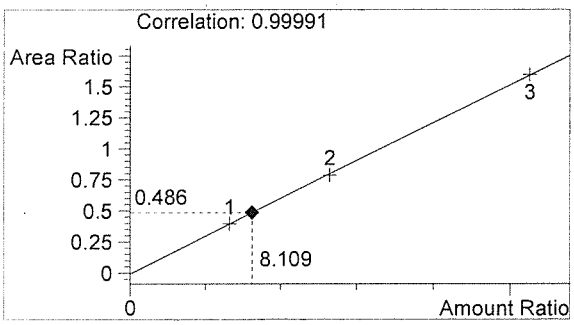
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/27/2016 12:53:02 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info:

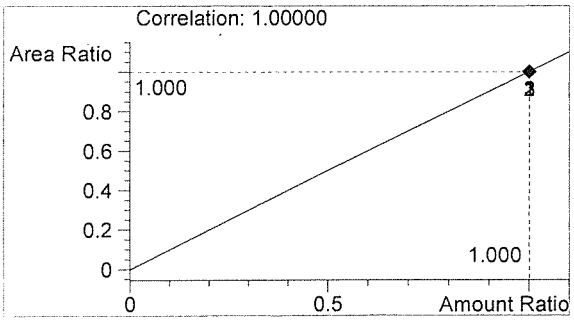
Sample Name: 16019-5
Operator: Katie Harris
Location: Vial 28



#	Compound	Peak Area	RT (min)
1	Ethanol	1222	1.094
2	n-Propanol	2514	1.757



Ethanol 0.097 g/100mL



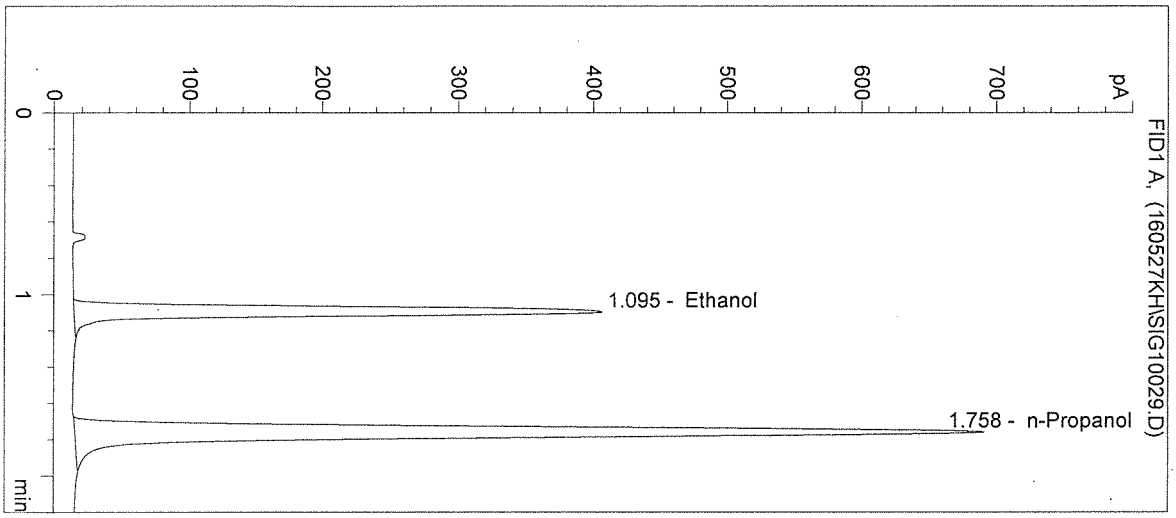
n-Propanol 0.012 g/100mL

KH

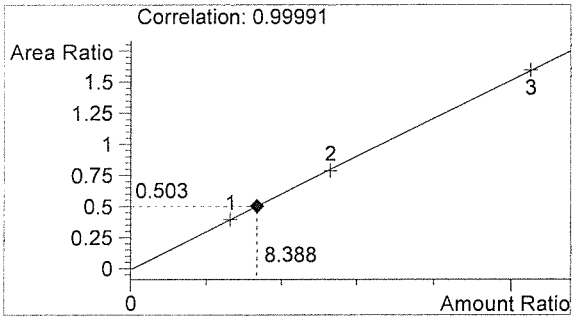
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/27/2016 12:56:15 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

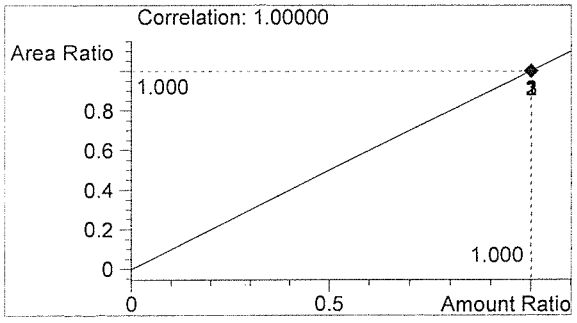
Sample Name: 0.10 CTRL
Operator: Katie Harris
Location: Vial 29



#	Compound	Peak Area	RT (min)
1	Ethanol	1357	1.095
2	n-Propanol	2697	1.758



Ethanol 0.101 g/100mL



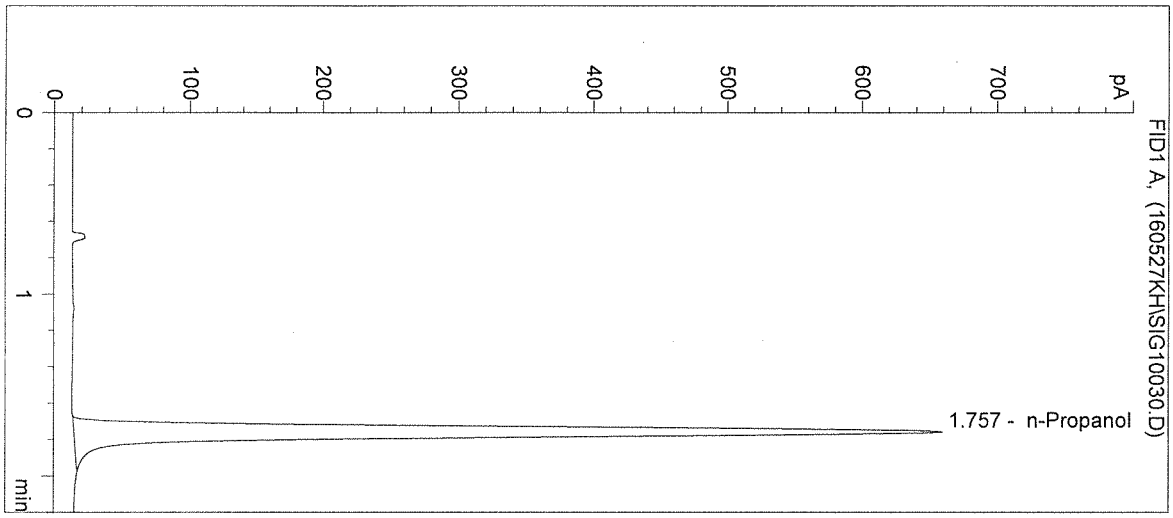
n-Propanol 0.012 g/100mL

KJ

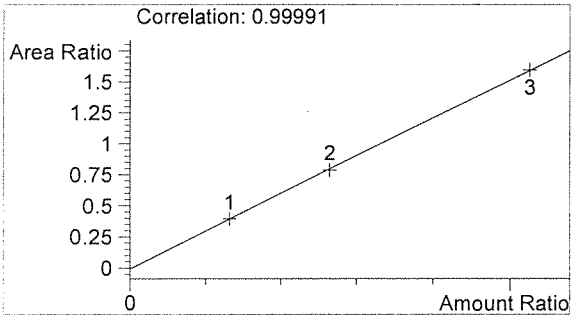
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 5/27/2016 12:59:28 PM
Instrument: HSGC#1
Column: DB-ALC1
Method: C:\HPCHEM\1\METHODS\SIMALC1.M
Sample Info: 16019

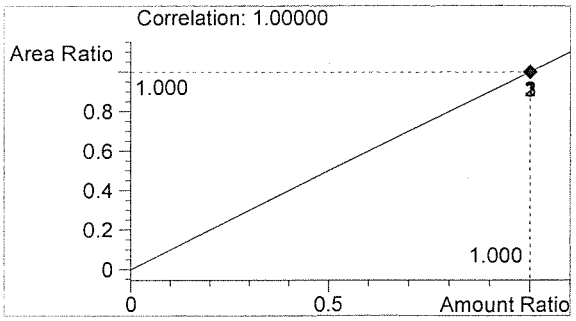
Sample Name: NEG CTRL
Operator: Katie Harris
Location: Vial 30



#	Compound	Peak Area	RT (min)
1	Ethanol	0	0.000
2	n-Propanol	2564	1.757



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

Data File: C:\HPCHEM\1\DATA\160527KH\SIG10030.D

KH