



QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

BATCH REPORT: 15028

CUSTOMER INFORMATION

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

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

TESTING ITEM INFORMATION

TARGET VAPOR CONCENTRATION: 0.04 g/210L
DATE PREPARED: 06/16/2015
BATCH UNITS: g/100mL

IDENTITY: QAP Solution
PREPARED BY: Brittany Thomas

| | BT | JLK | EW |
|---|-------|-------|-------|
| 1 | 0.050 | 0.048 | 0.049 |
| 2 | 0.051 | 0.048 | 0.049 |
| 3 | 0.049 | 0.049 | 0.049 |
| 4 | 0.050 | 0.048 | 0.049 |
| 5 | 0.050 | 0.049 | 0.049 |
| C | 0.102 | 0.100 | 0.100 |

ETHANOL CONTROL INFORMATION

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

RESULTS OF TESTING

AVERAGE SOLUTION CONCENTRATION: 0.0491 g/100mL PRECISION CV (%): 1.70
STANDARD DEVIATION: 0.00083 NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.0399 g/210L**
EXPANDED UNCERTAINTY: ± 0.0010 (k=2, 95.45% confidence interval)

WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION

Lisa Noble

Lisa Noble Forensic Scientist Supervisor

7/7/15

DATE REPORT ISSUED

| THIS TESTING WAS PERFORMED BY: | | | |
|--------------------------------|------------------|-------------------------|-------------|
| ANALYST | NAME | SIGNATURE | DATE TESTED |
| BT | Brittany Thomas | <i>Brittany Thomas</i> | 06/16/2015 |
| JLK | Justin L. Knoy | <i>Justin L. Knoy</i> | 06/19/2015 |
| EW | Elizabeth Wehner | <i>Elizabeth Wehner</i> | 06/23/2015 |

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

QAP Solution Batch #: 15028

Date Prepared: 6/16/2015

| Analyst: | BT | JLK | EW |
|--------------|-----------|-----------|-----------|
| Date Tested: | 6/16/2015 | 6/19/2015 | 6/23/2015 |
| Instrument: | HSGC #3 | HSGC #3 | HSGC #3 |
| 1 | 0.050 | 0.048 | 0.049 |
| 2 | 0.051 | 0.048 | 0.049 |
| 3 | 0.049 | 0.049 | 0.049 |
| 4 | 0.050 | 0.048 | 0.049 |
| 5 | 0.050 | 0.049 | 0.049 |
| C | 0.102 | 0.100 | 0.100 |

| CV ² _{COA} | CV ² _{QAP Solution} | CV ² _{Control} | CV ² _{Part Coef} |
|--------------------------------|---|------------------------------------|--------------------------------------|
| 0.0000084100 | 0.0000191995 | 0.0000438577 | 0.0001016326 |

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

Average Solution Concentration: 0.0491 g/100mL
Standard Deviation: 0.00083 g/100mL
Precision CV (%): 1.70
Equivalent Vapor Concentration: 0.0399 g/210L
Combined Standard Uncertainty (±): 0.0005 g/210L
Expanded Uncertainty (±): 0.0010 coverage factor (k) =2 (95.45% level of confidence)

Calculations performed by: Lisa Noble [Signature] 7/2/15
Name Signature Date

Calculations verified by: Amanda M. Black [Signature] 7-7-15
Name Signature Date

Method: Hand calculation

Tech. review performed by: Lisa Noble [Signature] 7/2/15
Name Signature Date

[Signature]

Washington State Patrol Toxicology Laboratory Division

SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Amanda M. Black Date: 7-7-15

Location: WSP-FLSB Seattle, WA Solution Batch Number: 15028

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

Comments:

Reviewer Signature: 

Date: 7-7-15



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 | | |
| Asa Louis | | |
| Brittany Thomas | BT | 7/2/15 |
| Christie Mitchell-Mata | | |
| Christopher Johnston | | |
| David Nguyen | | |
| Dawn Sklerov | | |
| Elizabeth Wehner | EW | 07/02/15 |
| Justin Knoy | JK | 7-2-15 |
| Katie Harris | | |
| Lyndsey Lowe | | |
| Naziha Nuwayhid | | |
| Rebecca Flaherty | | |

Batch # 15028 7/2/15



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 98134-2927 • (206) 262-6100 • FAX (206) 262-6145

**0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION
CERTIFICATION FOR LOT 15028**

I, Brittany Thomas, 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 Biology and a Masters in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 15028, was prepared in the Washington State Toxicology Laboratory on 6/16/2015. 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 6/16/2016.

Seattle, WA

Brittany Thomas 7/2/15

Brittany Thomas

Date

Forensic Scientist

JAY INSLEE
Governor



JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY

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**0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION
CERTIFICATION FOR LOT 15028**

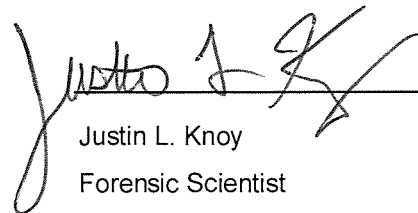
I, Justin L. Knoy, do certify under penalty of perjury that:

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 Biology, and MS degree in Forensic Science.

The quality assurance procedure (QAP) solution, Lot Number 15028, was prepared in the Washington State Toxicology Laboratory on 6/16/2015. 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 6/16/2016.

Seattle, WA

 7.2-15
Justin L. Knoy Date
Forensic Scientist



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Governor



JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
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**0.04 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION
CERTIFICATION FOR LOT 15028**

I, Elizabeth Wehner, 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 15028, was prepared in the Washington State Toxicology Laboratory on 6/16/2015. 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 6/16/2016.

Seattle, WA

Elizabeth Wehner 07/02/15

Elizabeth Wehner
Forensic Scientist

Date



Noble, Lisa (WSP)

From: Noble, Lisa (WSP)
Sent: Tuesday, July 07, 2015 12:21 PM
To: VanDiest, Jim (WSP); O'Brien, Pam (WSP); Birman, Cameron (WSP); McKee, Jon (WSP); Moberg, Tom (WSP); Madsen, Shane (WSP); Cramer, Ruth (WSP); Bogen, Bill (WSP); Havenner Jr, Albert (WSP); Sterkel, Mel (WSP)
Cc: Villanti, Brandon (WSP); Mosley, Lisa (WSP)
Subject: QAP solutions 15028, 15029 and 15030

Hello technicians,

There are three QAP solutions that are being approved today. Upon review, it was noticed that part of the units is missing from the label. Instead of saying, for example, 0.04 g/210L, it just says 0.04/210L (gram designation is missing). The batch number, concentration (15028 is a 0.04, 15029 is a 0.08 and 15030 is a 0.15), preparer, preparation and expiration dates are still on the label as usual.

You will find the correct units for each solution on the test report that accompanies these batches, should you happen to receive any. Rather than re-label all the bottles, we are sending you this email notification so that you are aware of the typographical error on the labels.

Please let me know if you have any questions.

Thanks,

Lisa Noble

Forensic Scientist Supervisor
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Suite 360
Seattle, WA 98134
Phone: 206-262-6100
Fax: 206-262-6145

15028
for 7/7/15

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

Preparation Date: 6/16/15 Expiration Date: 6/16/16 Initials of Preparer: BTLot # of 200-proof Ethanol used in preparation: 2DC0208Date the 200-proof Ethanol bottle was opened: 3/10/15

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 | <input checked="" type="checkbox"/> | <u>15028</u> |
| QAP 0.08 | 22.4 | 18 | <input checked="" type="checkbox"/> | <u>15029</u> |
| QAP 0.10 | 28.1 | 18 | <input type="checkbox"/> | _____ |
| QAP 0.15 | 42.1 | 18 | <input type="checkbox"/> | _____ |
| QAP 0.20 | 56.1 | 18 | <input type="checkbox"/> | _____ |
| ESS | 66.5 | 52 | <input type="checkbox"/> | _____ |

Stir bar is rotating Stirred for minimum 30 minutes; 2 hours for ESS Spigot purged Aliquot taken Batch labeled, packaged and sealed 6/16/15
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:

_____Matthew Thomas
Analyst Signature6/16/15
Date

Sequence Parameters:

Operator: Brittany Thomas
 Data File Naming: Prefix/Counter
 Signal 1 Prefix: SIG1
 Counter: 0001
 Signal 2 Prefix: SIG2
 Counter: 0001
 Data Directory: C:\HPCHEM\2\DATA\
 Data Subdirectory: 150616BT
 Part of Methods to run: According to Runtime Checklist
 Barcode Reader: not used
 Shutdown Cmd/Macro: none

Sequence Comment:

CAL 1 (0.079g/100mL) - LOT# E0615-01 - EXP ~~6/16/2015~~
 CAL 2 (0.158g/100mL) - LOT# E0615-02 - EXP ~~6/16/2015~~
 CAL 3 (0.316g/100mL) - LOT# E0615-03 - EXP ~~6/16/2015~~
 CTRL 1 (0.04g/100mL) - LOT# FN05011301 - EXP 05/2018
 CTRL 2 (0.10g/100mL) - LOT# FN08051301 - EXP 10/2018
 CTRL 3 (0.20g/100mL) - LOT# FN03211401 - EXP 06/2019
 n-Propanol ISTD - LOT# P0615 - 09/04/2015

*Exp 12/2/15 for Cal 1, 2, 3
BT 7/2/15*

Calibrators and controls (vials 1-9) located in 15028 folder. BT 6/16/15

Sequence Table (Front Injector):

Method and Injection Info Part:

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|------------------|---------|-----|------------|-----------|----------|
| 1 | Vial 1 | BLANK | SIMALC3 | 1 | Sample | | |
| 2 | Vial 2 | 0.079 CAL 1 | SIMALC3 | 1 | Calib | | |
| 3 | Vial 3 | 0.158 CAL 2 | SIMALC3 | 1 | Calib | | |
| 4 | Vial 4 | 0.316 CAL 3 | SIMALC3 | 1 | Calib | | |
| 5 | Vial 5 | NEG CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | 0.04 CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | 0.10 CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | 0.20 CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | NEG CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | QAP0.04 15028 #1 | SIMALC3 | 1 | Sample | | |
| 11 | Vial 11 | QAP0.04 15028 #2 | SIMALC3 | 1 | Sample | | |
| 12 | Vial 12 | QAP0.04 15028 #3 | SIMALC3 | 1 | Sample | | |
| 13 | Vial 13 | QAP0.04 15028 #4 | SIMALC3 | 1 | Sample | | |
| 14 | Vial 14 | QAP0.04 15028 #5 | SIMALC3 | 1 | Sample | | |
| 15 | Vial 15 | 0.10 CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | QAP0.08 15029 #1 | SIMALC3 | 1 | Sample | | |
| 18 | Vial 18 | QAP0.08 15029 #2 | SIMALC3 | 1 | Sample | | |
| 19 | Vial 19 | QAP0.08 15029 #3 | SIMALC3 | 1 | Sample | | |
| 20 | Vial 20 | QAP0.08 15029 #4 | SIMALC3 | 1 | Sample | | |
| 21 | Vial 21 | QAP0.08 15029 #5 | SIMALC3 | 1 | Sample | | |
| 22 | Vial 22 | 0.10 CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | QAP0.15 15030 #1 | SIMALC3 | 1 | Sample | | |
| 25 | Vial 25 | QAP0.15 15030 #2 | SIMALC3 | 1 | Sample | | |
| 26 | Vial 26 | QAP0.15 15030 #3 | SIMALC3 | 1 | Sample | | |
| 27 | Vial 27 | QAP0.15 15030 #4 | SIMALC3 | 1 | Sample | | |
| 28 | Vial 28 | QAP0.15 15030 #5 | SIMALC3 | 1 | Sample | | |

15028

7/1/15

BT

BT

Sequence: C:\HPCHEM\1\SEQUENCE\BTQAP3.S

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|--------------|---------|-----|------------|-----------|----------|
| 29 | Vial 29 | 0.10 CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL-BT | SIMALC3 | 1 | Ctrl Samp | | |

Calibration Part:

| Line | Location | SampleName | Method | CalLev | Update | RF | Update | RT | Interval |
|------|----------|-------------|---------|--------|---------|----|---------|----|----------|
| 2 | Vial 2 | 0.079 CAL 1 | SIMALC3 | 1 | Replace | | Replace | | |
| 3 | Vial 3 | 0.158 CAL 2 | SIMALC3 | 2 | Replace | | Replace | | |
| 4 | Vial 4 | 0.316 CAL 3 | SIMALC3 | 3 | Replace | | Replace | | |

Sequence Table (Back Injector):

No entries - empty table!

15028
2/7/15

fr

BT

=====
 Calibration Table
 =====

Calib. Data Modified : Tuesday, June 16, 2015 10:53:22 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] | Lvl Sig | Amount [g/100mL] | Area | Amt/Area | Ref Grp | Name |
|---------------|---------|------------------|------------|------------|---------|------------|
| 1.019 | 1 1 | 7.97800e-2 | 549.33167 | 1.45231e-4 | 1 | Ethanol |
| | 2 | 1.60980e-1 | 1110.11926 | 1.45011e-4 | | |
| | 3 | 3.18440e-1 | 2188.56055 | 1.45502e-4 | | |
| 1.744 | 1 1 | 1.20000e-2 | 1471.86902 | 8.15290e-6 | I1 | n-Propanol |
| | 2 | 1.20000e-2 | 1482.74841 | 8.09308e-6 | | |
| | 3 | 1.20000e-2 | 1472.45789 | 8.14964e-6 | | |

=====
 Peak Sum Table
 =====

No Entries in table
 =====

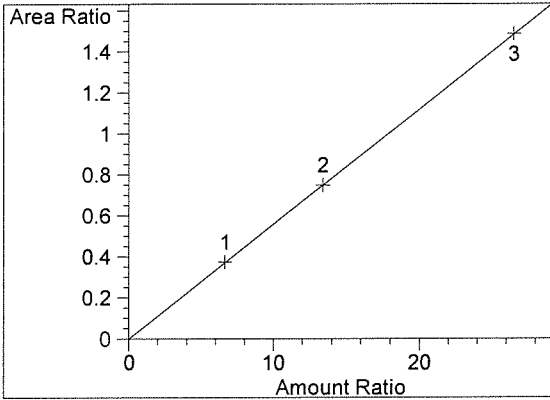
15028

for 7/1/15

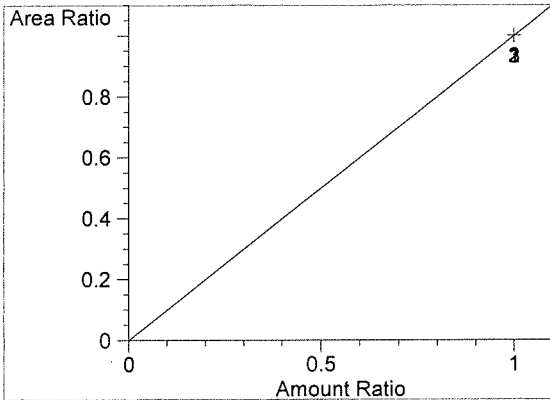
BT

BT

=====
Calibration Curves
=====



Ethanol at exp. RT: 1.019
FID1 A,
Correlation: 1.00000
Residual Std. Dev.: 0.00186
Formula: $y = mx + b$
m: 5.59872e-2
b: -1.90448e-4
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.744
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

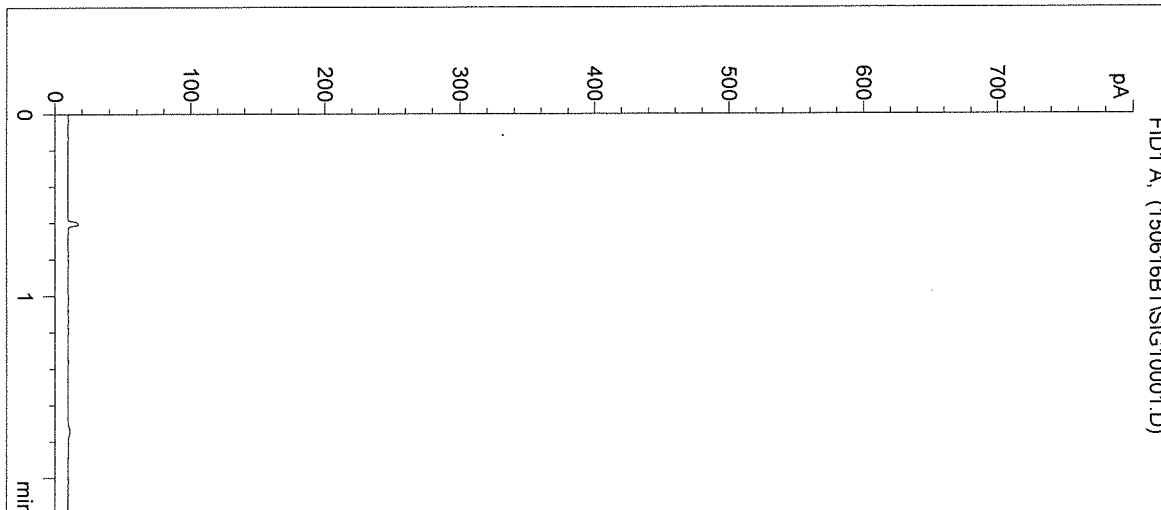
15028
2/7/15

fu

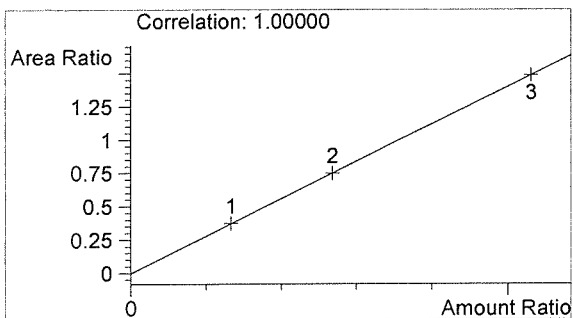
BT

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

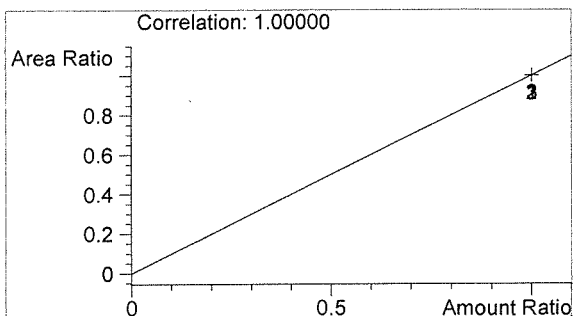
Inj. Date: 6/16/2015 10:41:17 AM Sample Name: BLANK
Instrument: HSGC#3 Operator: Brittany Thomas
Column: DB-ALC2 Location: Vial 1
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 15028



| # | 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

BT

BT

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

Inj. Date: 6/16/2015 10:44:35 AM

Sample Name: 0.079 CAL 1

Instrument: HSGC#3

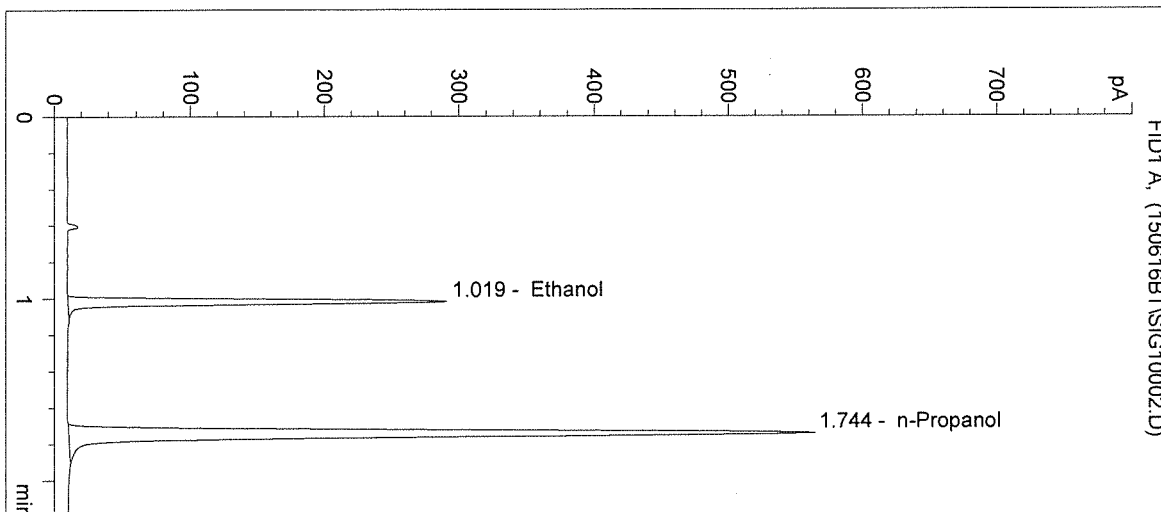
Operator: Brittany Thomas

Column: DB-ALC2

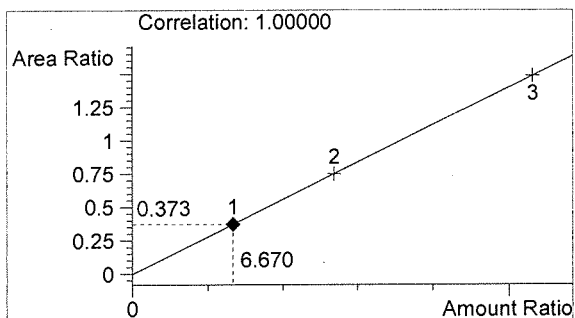
Location: Vial 2

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

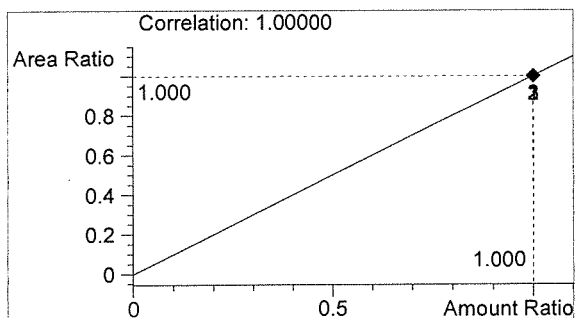
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 549 | 1.019 |
| 2 | n-Propanol | 1472 | 1.744 |



Ethanol 0.080 g/100mL

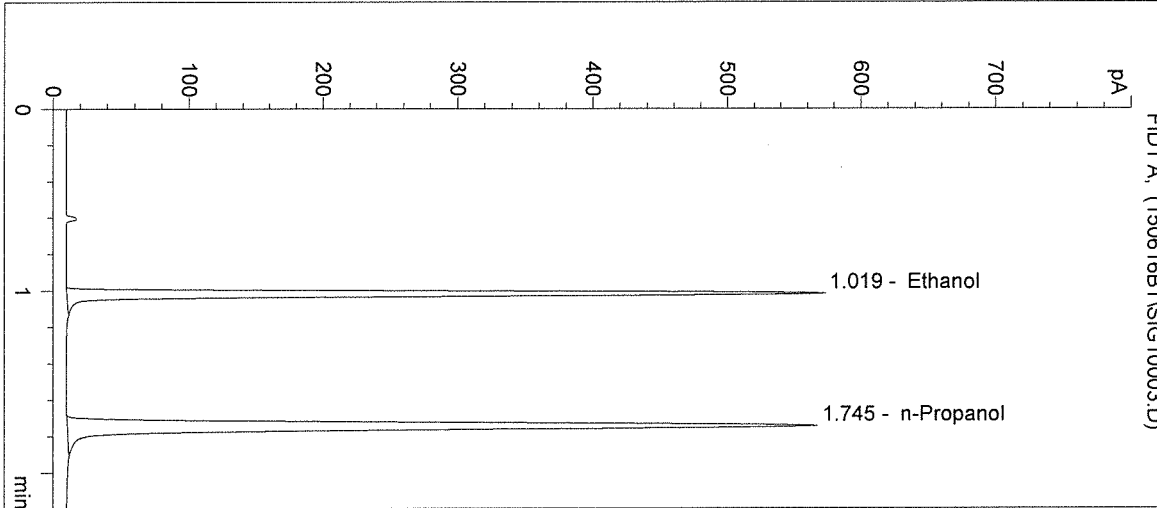


n-Propanol 0.012 g/100mL

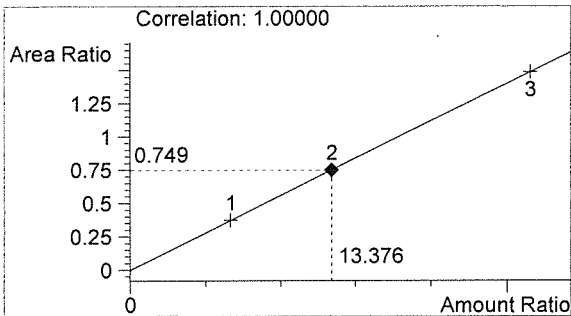
BT

BT

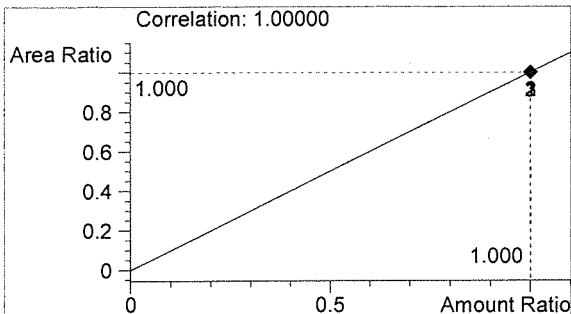
Inj. Date: 6/16/2015 10:47:53 AM Sample Name: 0.158 CAL 2
 Instrument: HSGC#3 Operator: Brittany Thomas
 Column: DB-ALC2 Location: Vial 3
 Method: C:\HPCHEM\2\METHODS\SIMALC3.M
 Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1110 | 1.019 |
| 2 | n-Propanol | 1483 | 1.745 |



Ethanol 0.161 g/100mL



n-Propanol 0.012 g/100mL

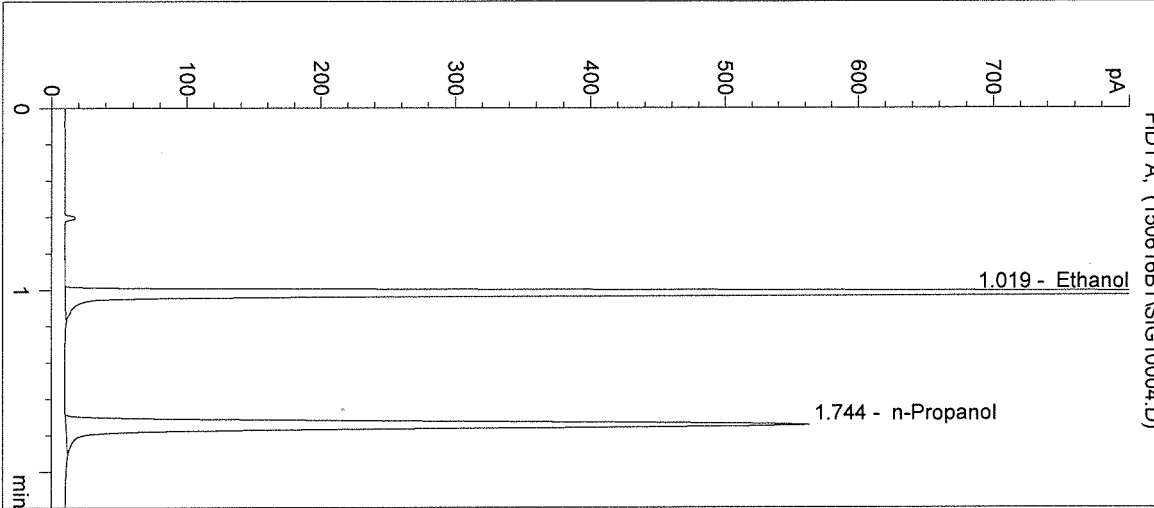
BT

BT

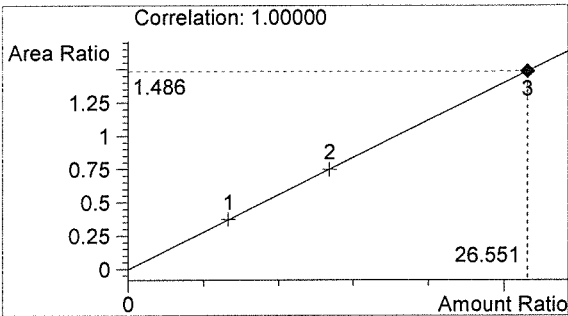
Washington State Patrol Toxicology Laboratory
 2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/16/2015 10:51:10 AM
 Instrument: HSGC#3
 Column: DB-ALC2
 Method: C:\HPCHEM\2\METHODS\SIMALC3.M
 Sample Info: 15028

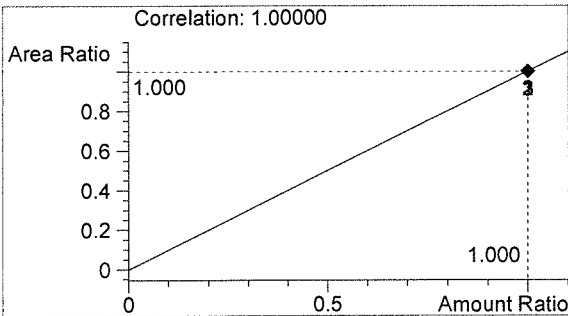
Sample Name: 0.316 CAL 3
 Operator: Brittany Thomas
 Location: Vial 4



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 2189 | 1.019 |
| 2 | n-Propanol | 1472 | 1.744 |



Ethanol 0.319 g/100mL



n-Propanol 0.012 g/100mL

BT

BT

Inj. Date: 6/16/2015 10:54:24 AM

Sample Name: NEG CTRL-BT

Instrument: HSGC#3

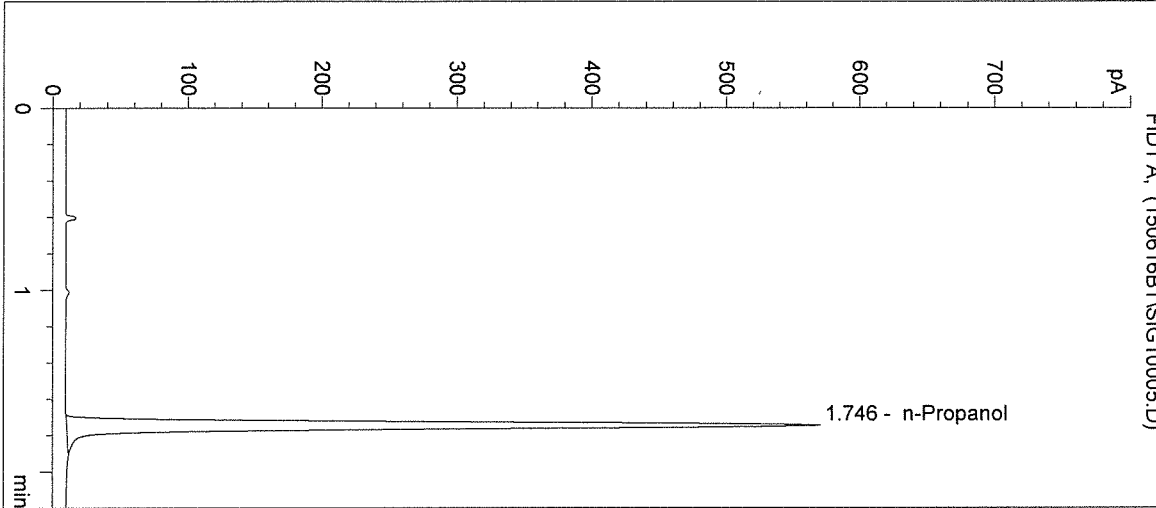
Operator: Brittany Thomas

Column: DB-ALC2

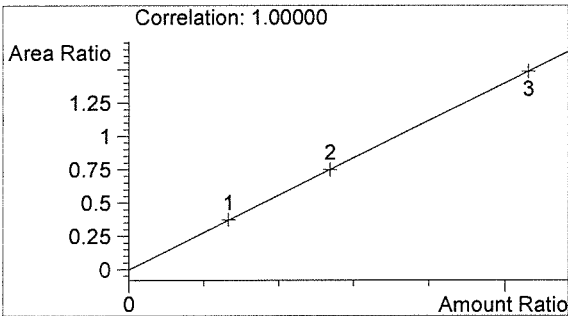
Location: Vial 5

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

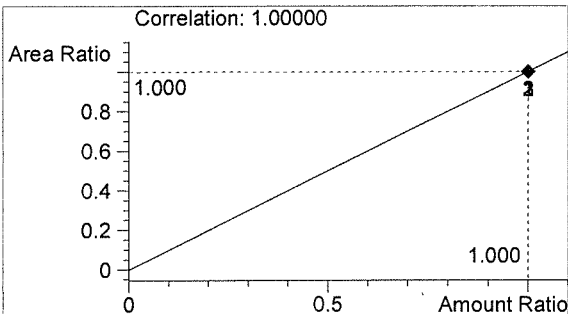
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1494 | 1.746 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

BT

BT

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

Inj. Date: 6/16/2015 10:57:37 AM

Sample Name: 0.04 CTRL-BT

Instrument: HSGC#3

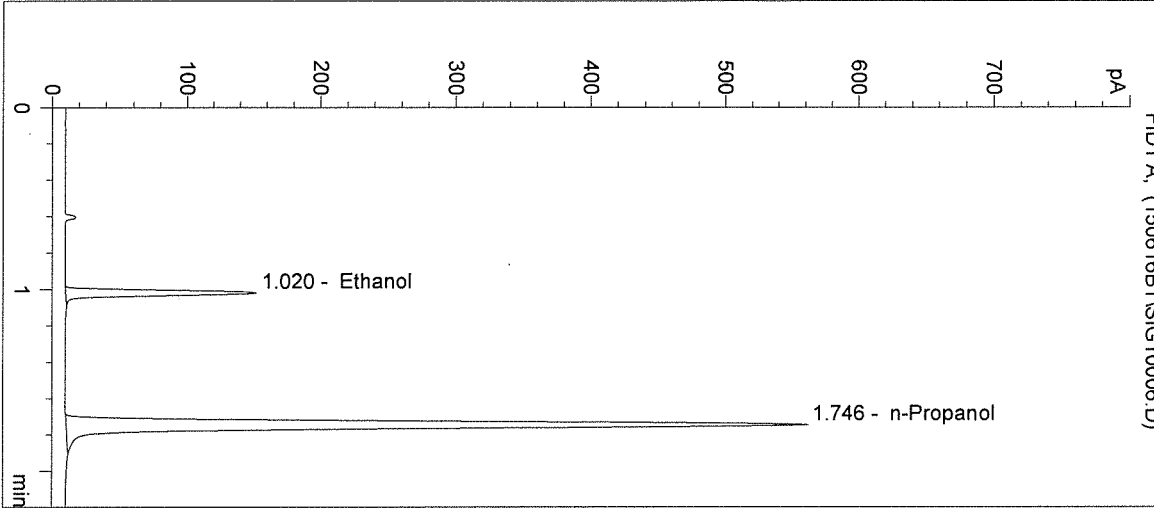
Operator: Brittany Thomas

Column: DB-ALC2

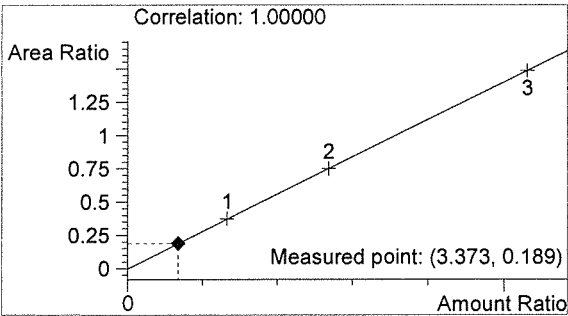
Location: Vial 6

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

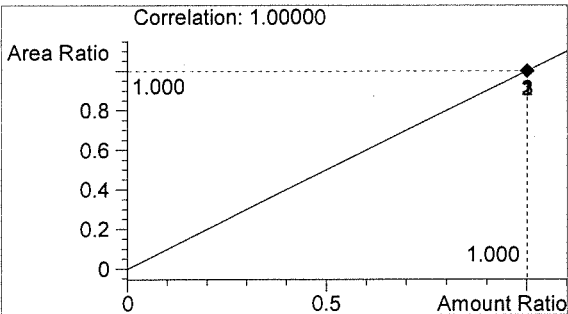
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 277 | 1.020 |
| 2 | n-Propanol | 1468 | 1.746 |



Ethanol 0.040 g/100mL

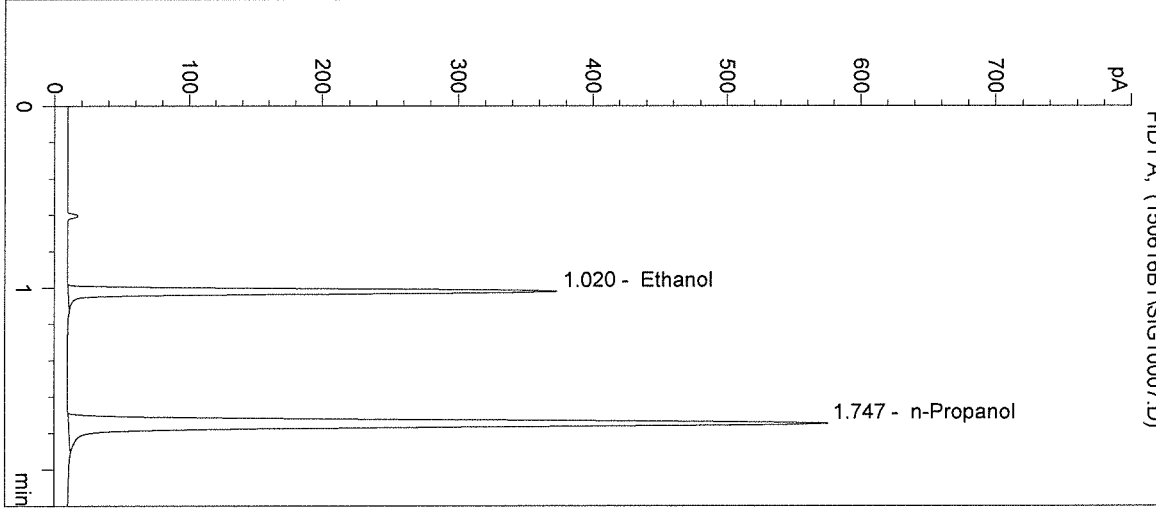


n-Propanol 0.012 g/100mL

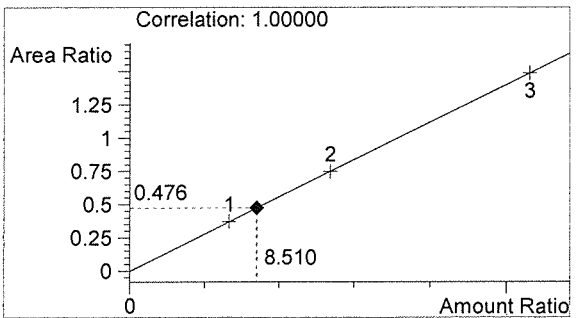
BT

BT

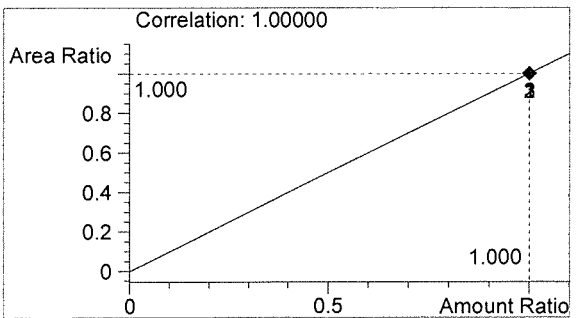
Inj. Date: 6/16/2015 11:00:50 AM Sample Name: 0.10 CTRL-BT
Instrument: HSGC#3 Operator: Brittany Thomas
Column: DB-ALC2 Location: Vial 7
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 718 | 1.020 |
| 2 | n-Propanol | 1507 | 1.747 |



Ethanol 0.102 g/100mL



n-Propanol 0.012 g/100mL

BT

BT

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

Inj. Date: 6/16/2015 11:04:04 AM

Sample Name: 0.20 CTRL-BT

Instrument: HSGC#3

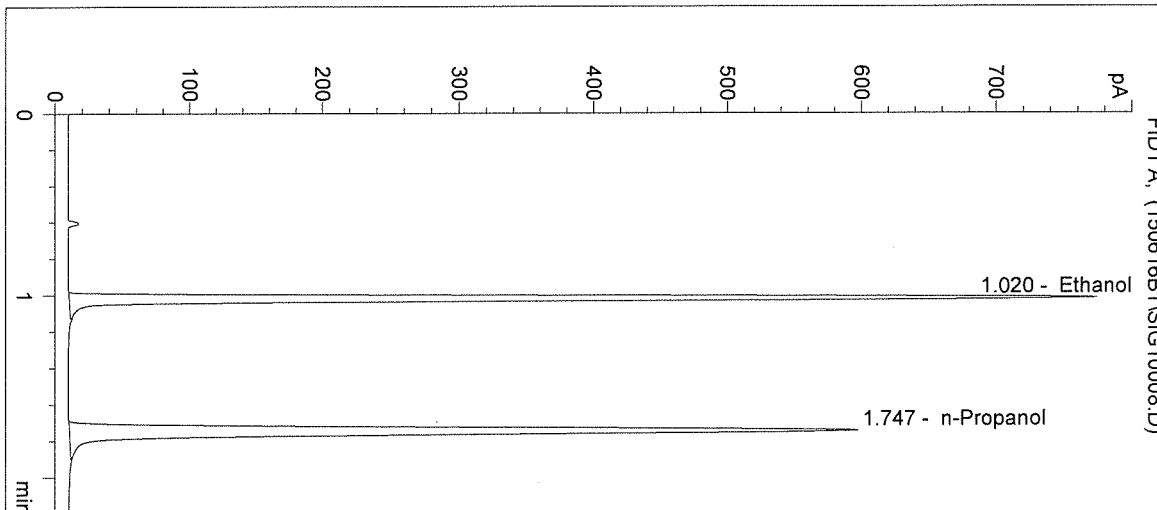
Operator: Brittany Thomas

Column: DB-ALC2

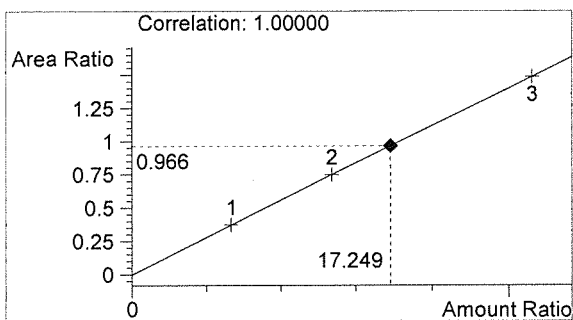
Location: Vial 8

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

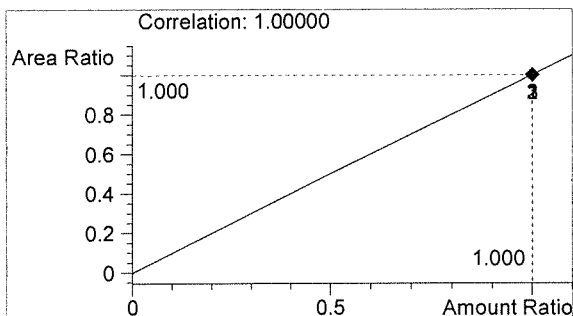
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1511 | 1.020 |
| 2 | n-Propanol | 1565 | 1.747 |



Ethanol 0.207 g/100mL



n-Propanol 0.012 g/100mL

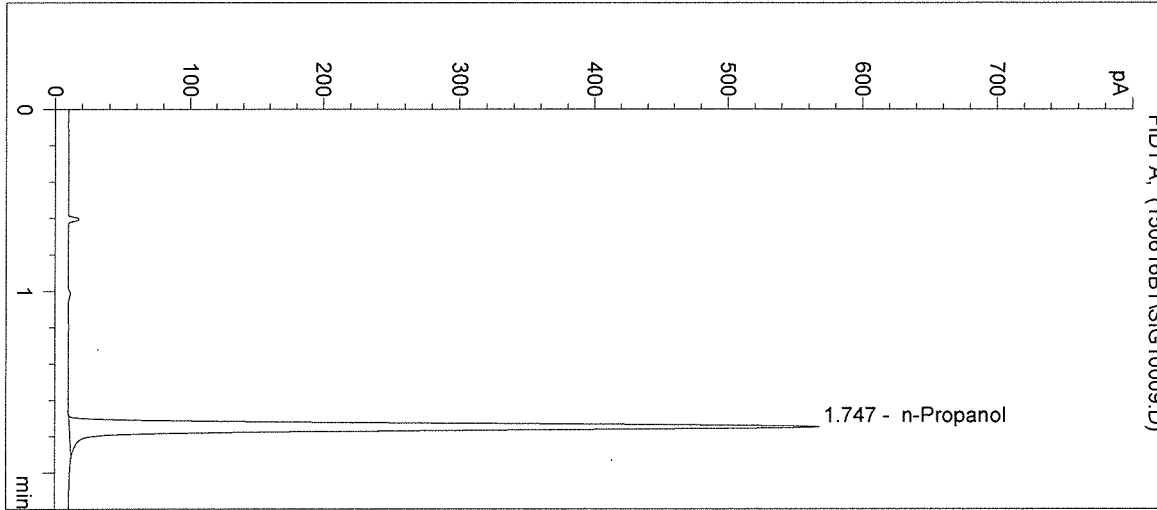
BT

BT

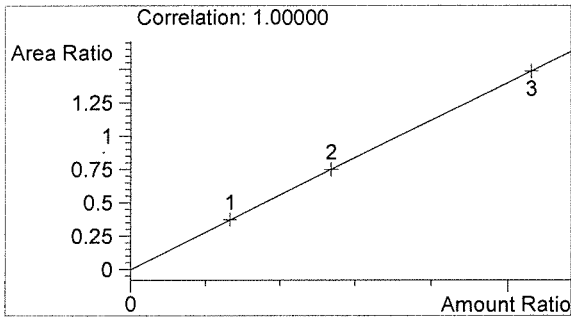
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/16/2015 11:07:17 AM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 15028

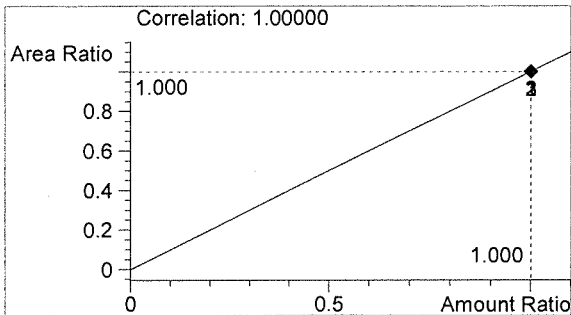
Sample Name: NEG CTRL-BT
Operator: Brittany Thomas
Location: Vial 9



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1485 | 1.747 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

BT

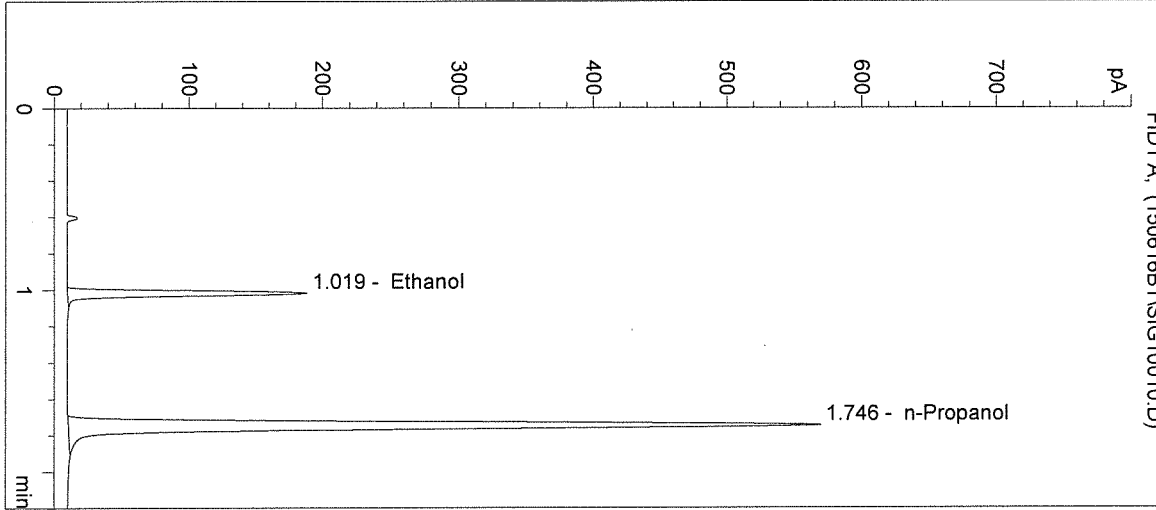
BT

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

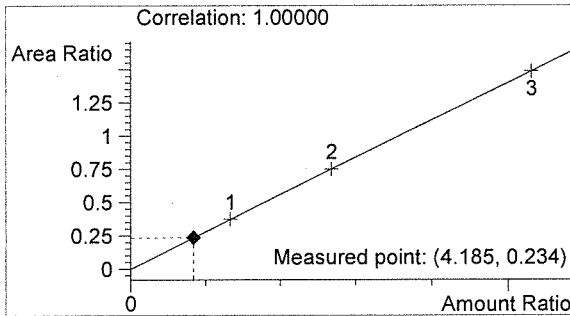
Inj. Date: 6/16/2015 11:10:30 AM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Name: QAP0.04 15028 #1
Operator: Brittany Thomas
Location: Vial 10

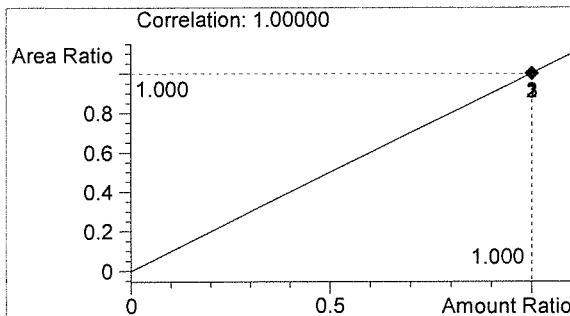
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 349 | 1.019 |
| 2 | n-Propanol | 1490 | 1.746 |



Ethanol 0.050 g/100mL



n-Propanol 0.012 g/100mL

BT

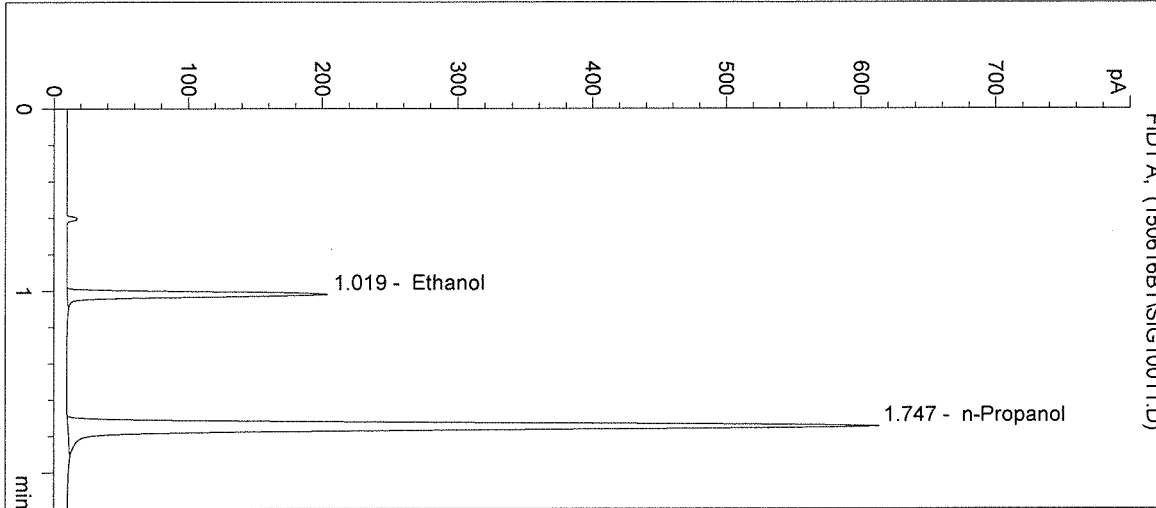
BT

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 2203 Airport Way S Seattle, WA 98134

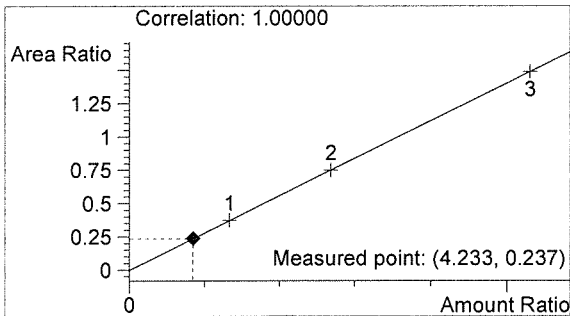
Inj. Date: 6/16/2015 11:13:44 AM
 Instrument: HSGC#3
 Column: DB-ALC2
 Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Name: QAP0.04 15028 #2
 Operator: Brittany Thomas
 Location: Vial 11

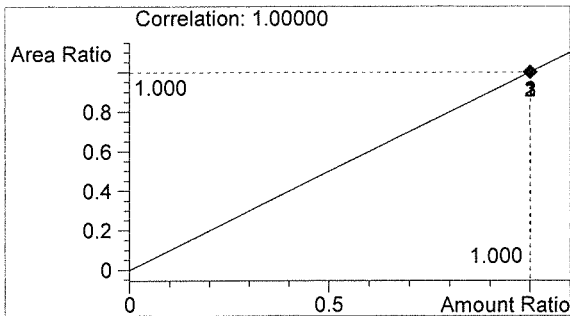
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 380 | 1.019 |
| 2 | n-Propanol | 1606 | 1.747 |



Ethanol 0.051 g/100mL



n-Propanol 0.012 g/100mL

BT

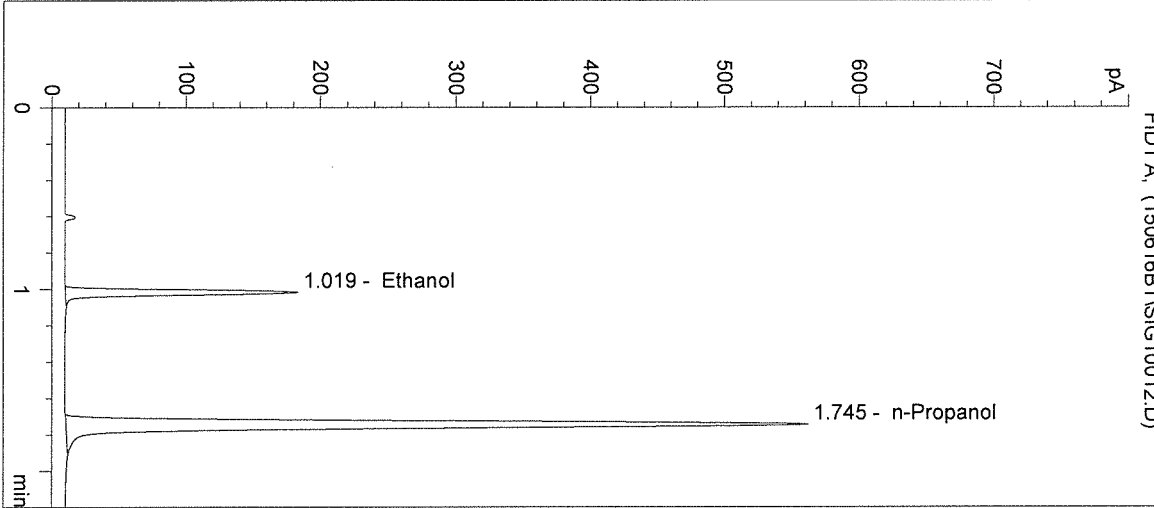
BT

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 2203 Airport Way S Seattle, WA 98134

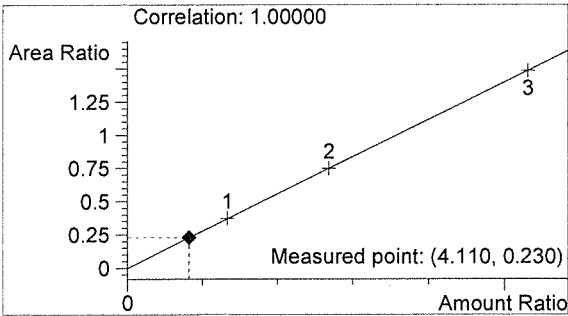
Inj. Date: 6/16/2015 11:16:57 AM
 Instrument: HSGC#3
 Column: DB-ALC2
 Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Name: QAP0.04 15028 #3
 Operator: Brittany Thomas
 Location: Vial 12

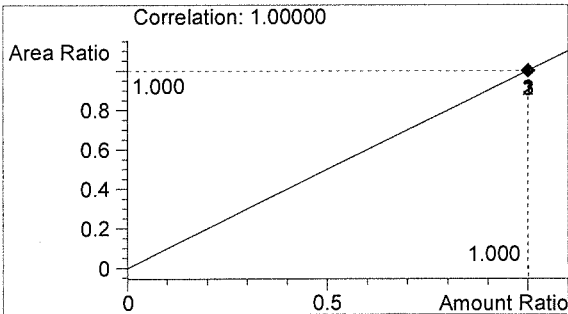
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 338 | 1.019 |
| 2 | n-Propanol | 1471 | 1.745 |



Ethanol 0.049 g/100mL



n-Propanol 0.012 g/100mL

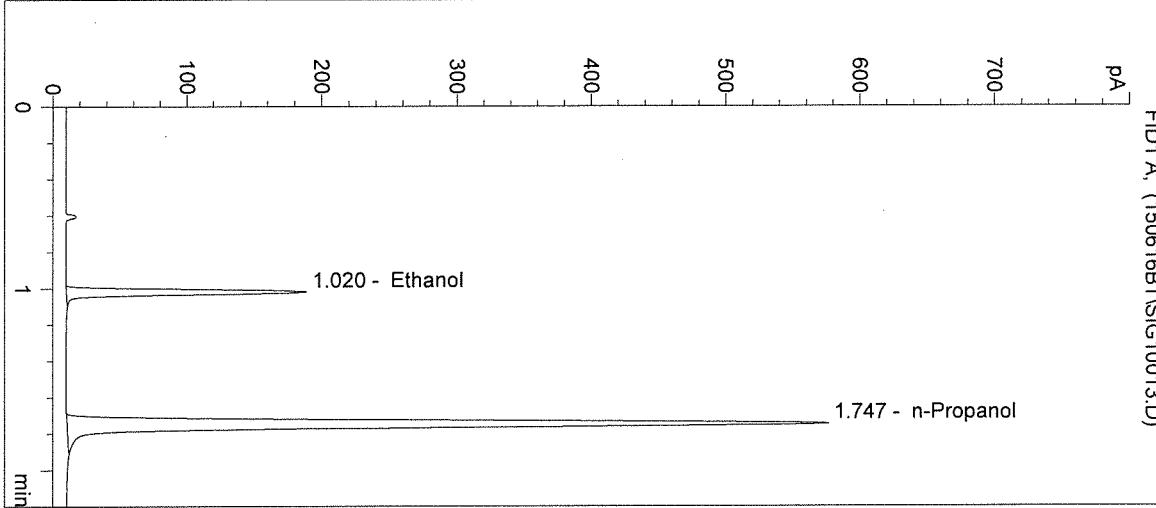
BT

BT

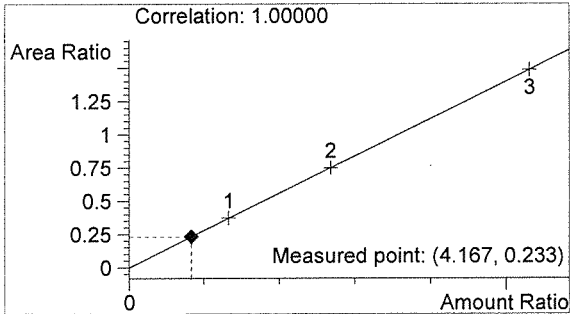
Inj. Date: 6/16/2015 11:20:11 AM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Name: QAP0.04 15028 #4
Operator: Brittany Thomas
Location: Vial 13

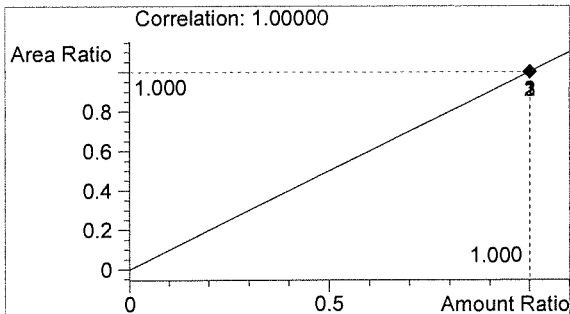
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 352 | 1.020 |
| 2 | n-Propanol | 1509 | 1.747 |



Ethanol 0.050 g/100mL



n-Propanol 0.012 g/100mL

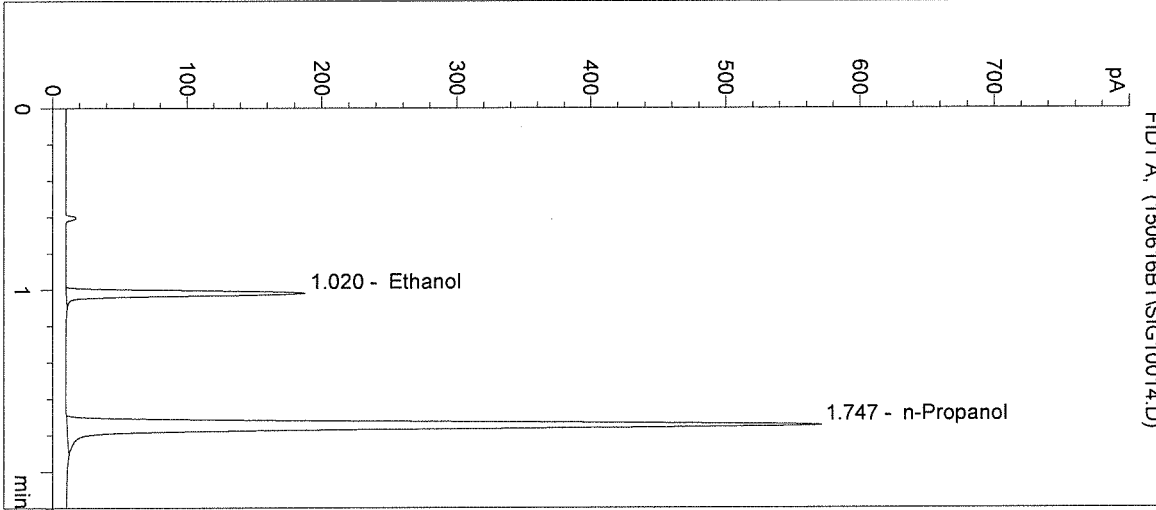
BT

BT

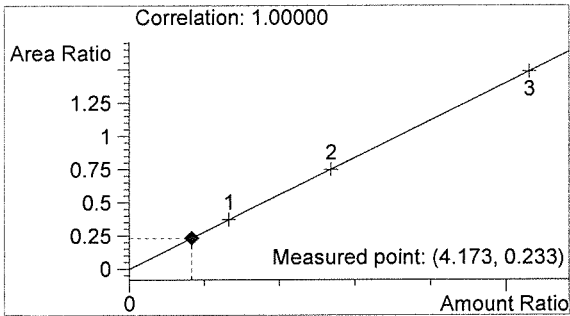
Inj. Date: 6/16/2015 11:23:24 AM
 Instrument: HSGC#3
 Column: DB-ALC2
 Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Name: QAP0.04 15028 #5
 Operator: Brittany Thomas
 Location: Vial 14

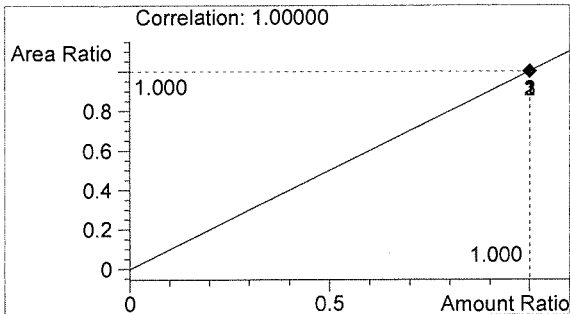
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 348 | 1.020 |
| 2 | n-Propanol | 1489 | 1.747 |



Ethanol 0.050 g/100mL



n-Propanol 0.012 g/100mL

BT

BT

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

Inj. Date: 6/16/2015 11:26:37 AM

Sample Name: 0.10 CTRL-BT

Instrument: HSGC#3

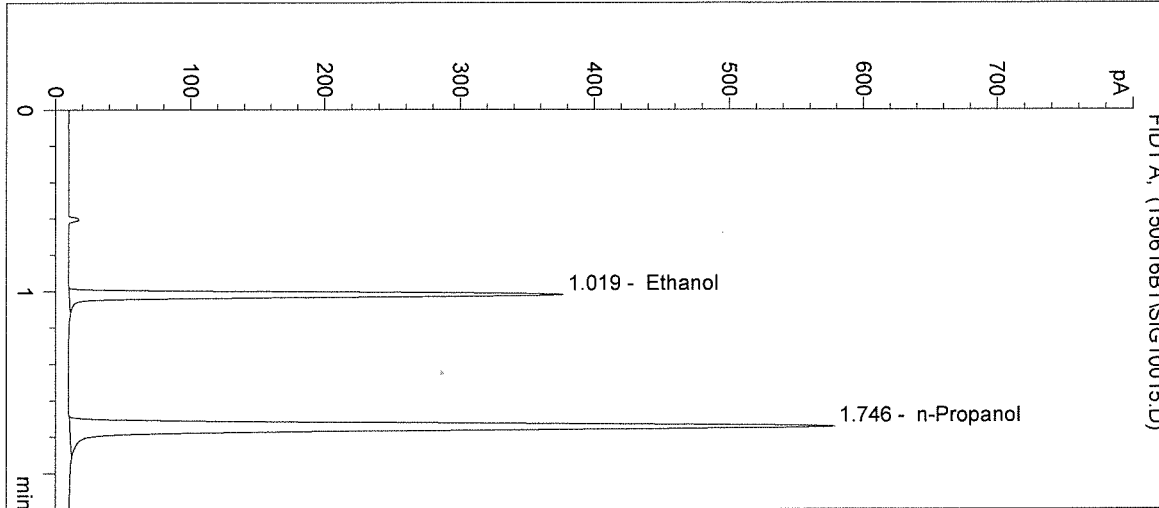
Operator: Brittany Thomas

Column: DB-ALC2

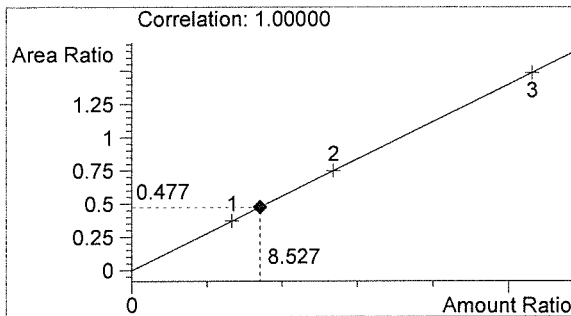
Location: Vial 15

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

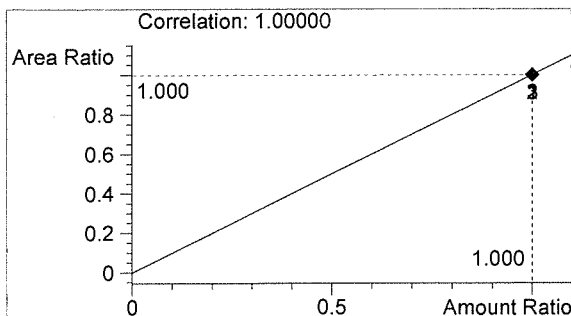
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 722 | 1.019 |
| 2 | n-Propanol | 1512 | 1.746 |



Ethanol 0.102 g/100mL



n-Propanol 0.012 g/100mL

BT

BT

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

Inj. Date: 6/16/2015 11:29:51 AM

Sample Name: NEG CTRL-BT

Instrument: HSGC#3

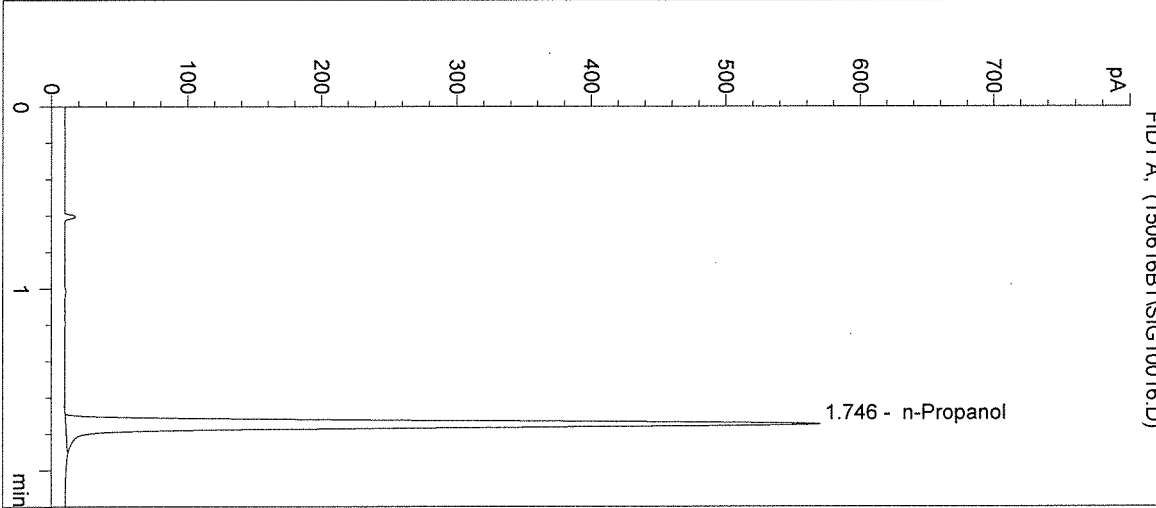
Operator: Brittany Thomas

Column: DB-ALC2

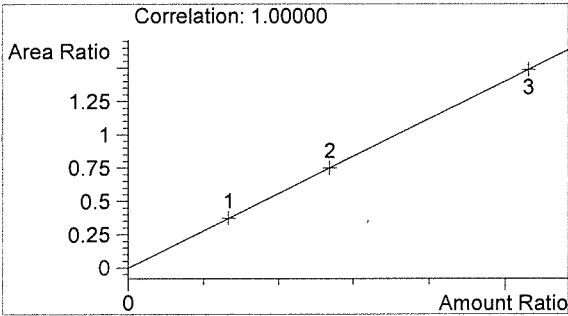
Location: Vial 16

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

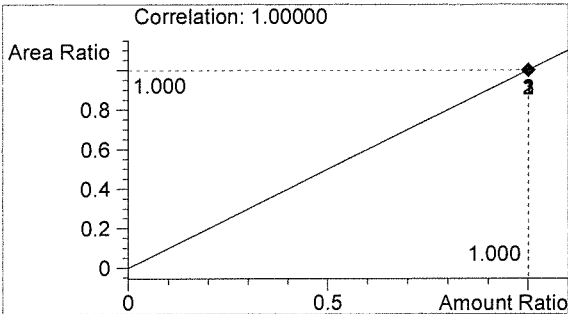
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1490 | 1.746 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

BT

BT

Sequence Parameters:

Operator: Justin Knoy
 Data File Naming: Prefix/Counter
 Signal 1 Prefix: SIG1
 Counter: 0001
 Signal 2 Prefix: SIG2
 Counter: 0001
 Data Directory: C:\HPCHEM\2\DATA\
 Data Subdirectory: 150619JK
 Part of Methods to run: According to Runtime Checklist
 Barcode Reader: not used
 Shutdown Cmd/Macro: none

Sequence Comment:

Ethanol Calibrator 1, E0615-01 - Exp. 12/02/2015
 Ethanol Calibrator 2, E0615-02 - Exp. 12/02/2015
 Ethanol Calibrator 3, E0615-03 - Exp. 12/02/2015
 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#P0615 - Exp. 09/04/2015

Data for vials 1-9 filed with 15028.

Sequence Table (Front Injector):

Method and Injection Info Part:

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|--------------|---------|-----|------------|-----------|----------|
| 1 | Vial 1 | BLANK | SIMALC3 | 1 | Sample | | |
| 2 | Vial 2 | CAL1 0.079 | SIMALC3 | 1 | Calib | | |
| 3 | Vial 3 | CAL2 0.158 | SIMALC3 | 1 | Calib | | |
| 4 | Vial 4 | CAL3 0.316 | SIMALC3 | 1 | Calib | | |
| 5 | Vial 5 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | CTRL1 (0.04) | SIMALC3 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | CTRL2 (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | CTRL3 (0.20) | SIMALC3 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | 15028-1 | SIMALC3 | 1 | Sample | | |
| 11 | Vial 11 | 15028-2 | SIMALC3 | 1 | Sample | | |
| 12 | Vial 12 | 15028-3 | SIMALC3 | 1 | Sample | | |
| 13 | Vial 13 | 15028-4 | SIMALC3 | 1 | Sample | | |
| 14 | Vial 14 | 15028-5 | SIMALC3 | 1 | Sample | | |
| 15 | Vial 15 | CTRL2 (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | 15029-1 | SIMALC3 | 1 | Sample | | |
| 18 | Vial 18 | 15029-2 | SIMALC3 | 1 | Sample | | |
| 19 | Vial 19 | 15029-3 | SIMALC3 | 1 | Sample | | |
| 20 | Vial 20 | 15029-4 | SIMALC3 | 1 | Sample | | |
| 21 | Vial 21 | 15029-5 | SIMALC3 | 1 | Sample | | |
| 22 | Vial 22 | CTRL2 (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | 15030-1 | SIMALC3 | 1 | Sample | | |
| 25 | Vial 25 | 15030-2 | SIMALC3 | 1 | Sample | | |

15028

JK

JK

JK

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|--------------|---------|-----|------------|-----------|----------|
| 26 | Vial 26 | 15030-3 | SIMALC3 | 1 | Sample | | |
| 27 | Vial 27 | 15030-4 | SIMALC3 | 1 | Sample | | |
| 28 | Vial 28 | 15030-5 | SIMALC3 | 1 | Sample | | |
| 29 | Vial 29 | CTRL2 (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |

Calibration Part:

| Line | Location | SampleName | Method | CalLev | Update | RF | Update | RT | Interval |
|------|----------|------------|---------|--------|---------|----|---------|----|----------|
| 2 | Vial 2 | CAL1 0.079 | SIMALC3 | 1 | Replace | | Replace | | |
| 3 | Vial 3 | CAL2 0.158 | SIMALC3 | 2 | Replace | | Replace | | |
| 4 | Vial 4 | CAL3 0.316 | SIMALC3 | 3 | Replace | | Replace | | |

Sequence Table (Back Injector):

No entries - empty table!

15028

Justin

JR

JR

=====
Calibration Table
=====

Calib. Data Modified : Friday, June 19, 2015 1:40:05 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 |
|---------------|---------|------------------|------------|------------|---------------|
| 1.020 | 1 1 | 7.97800e-2 | 632.12177 | 1.26210e-4 | 1 Ethanol |
| | | 1.60980e-1 | 1132.20740 | 1.42182e-4 | |
| | | 3.18440e-1 | 2254.17041 | 1.41267e-4 | |
| 1.746 | 1 1 | 1.20000e-2 | 1638.50818 | 7.32374e-6 | I1 n-Propanol |
| | | 1.20000e-2 | 1512.61975 | 7.93326e-6 | |
| | | 1.20000e-2 | 1497.06299 | 8.01569e-6 | |

=====
Peak Sum Table
=====

No Entries in table
=====

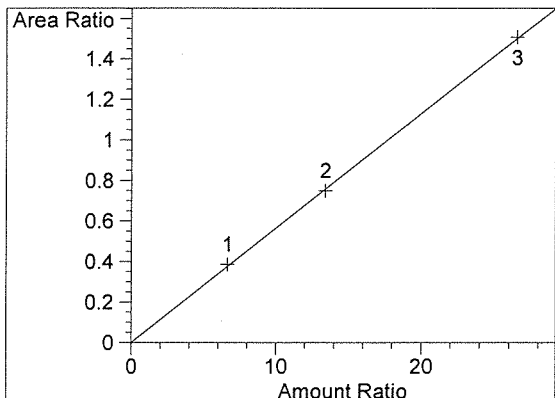
15028

for 7/1/15

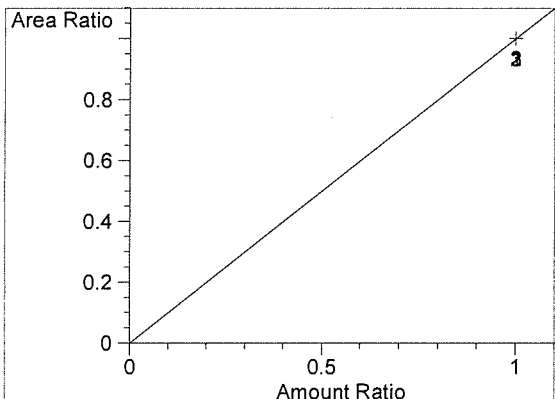
for

JK

=====
Calibration Curves
=====



Ethanol at exp. RT: 1.020
FID1 A,
Correlation: 0.99991
Residual Std. Dev.: 0.01046
Formula: $y = mx + b$
m: 5.65724e-2
b: 9.38652e-4
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.746
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

15028

Justin

JK

JK

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

Inj. Date: 6/19/2015 1:27:59 PM

Sample Name: BLANK

Instrument: HSGC#3

Operator: Justin Knoy

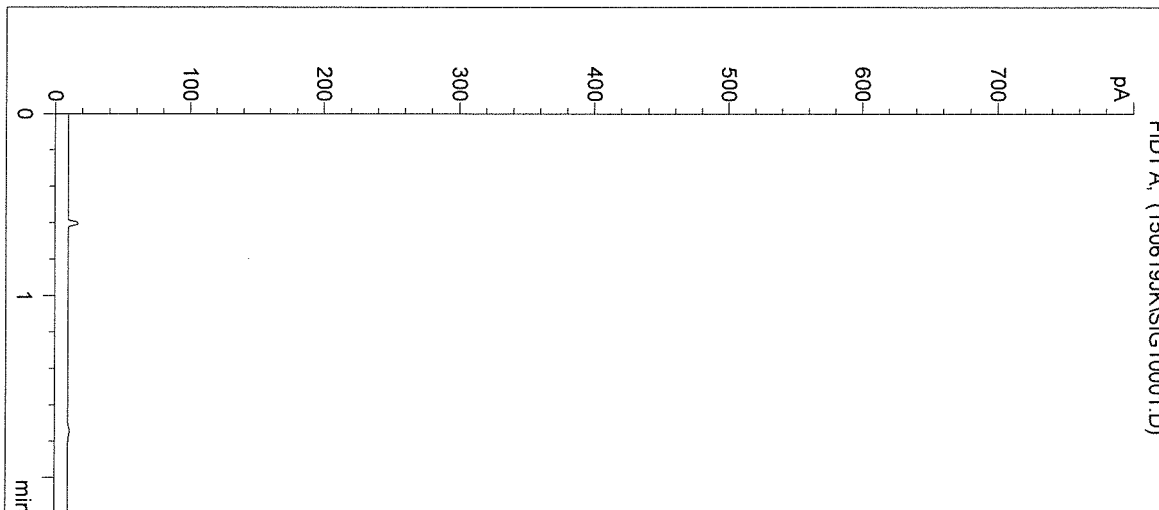
Column: DB-ALC2

Location: Vial 1

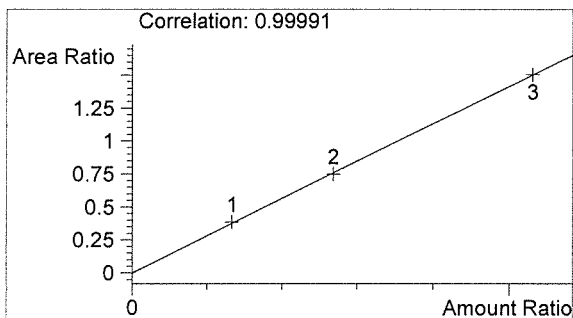
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: 15028, ~~15029~~, ~~15030~~

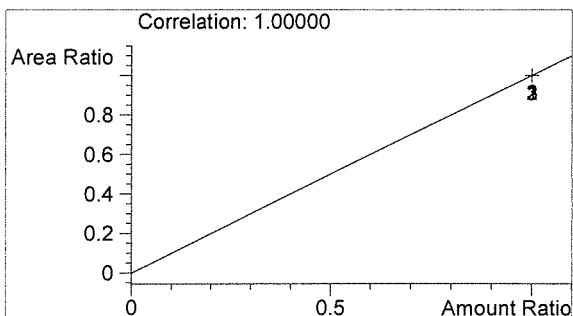
JK 7-2-15



| # | 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

fr

JK

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

Inj. Date: 6/19/2015 1:31:18 PM

Sample Name: CAL1 0.079

Instrument: HSGC#3

Operator: Justin Knoy

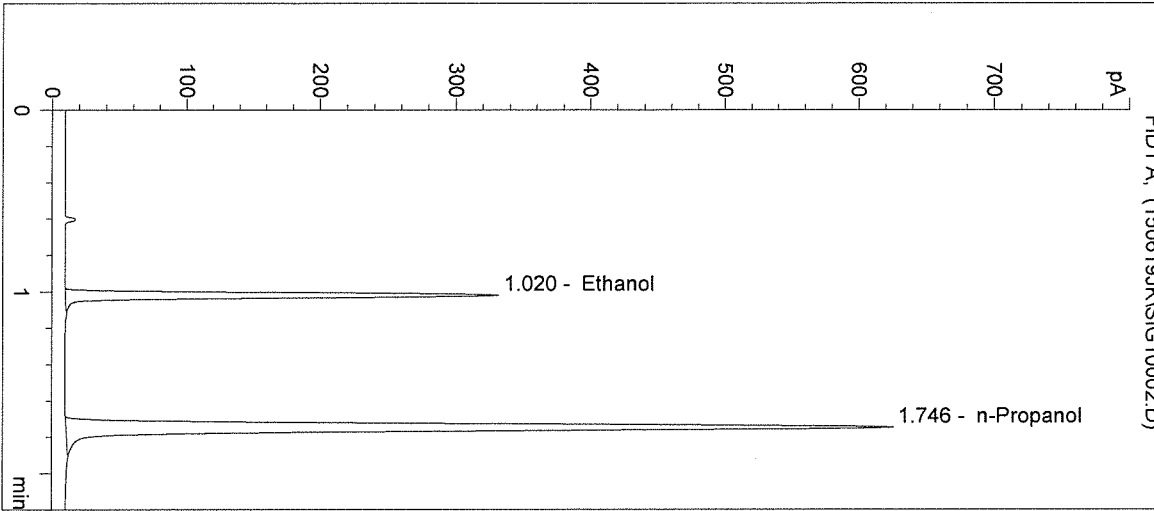
Column: DB-ALC2

Location: Vial 2

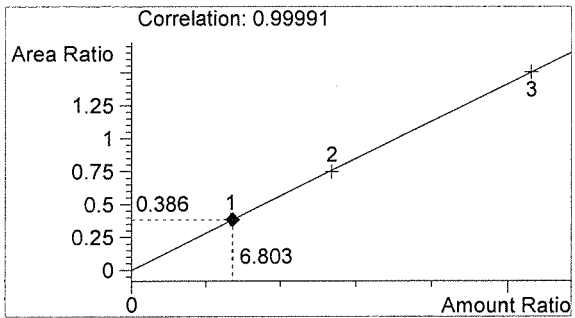
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: E0615-01 - (0.079g/100mL) ; 15028, ~~15029~~, ~~15030~~

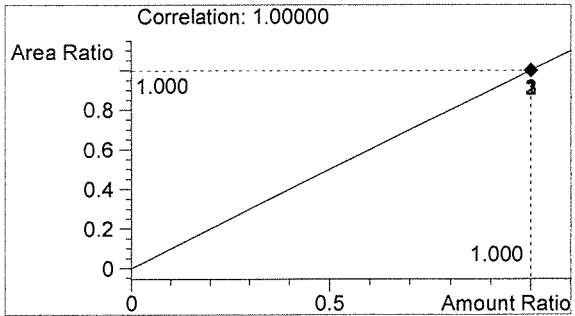
JK 7.2.15



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 632 | 1.020 |
| 2 | n-Propanol | 1639 | 1.746 |



Ethanol 0.082 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

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

Inj. Date: 6/19/2015 1:34:35 PM

Sample Name: CAL2 0.158

Instrument: HSGC#3

Operator: Justin Knoy

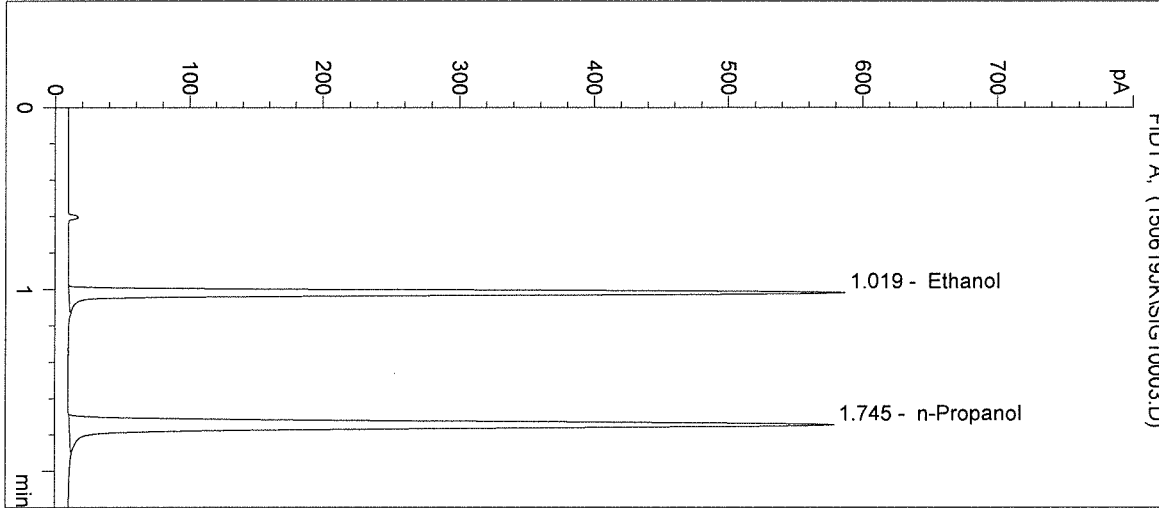
Column: DB-ALC2

Location: Vial 3

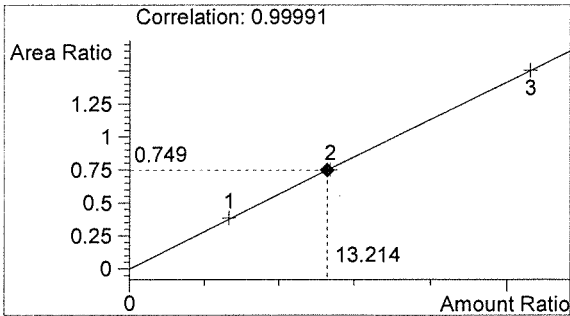
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: E0615-02 - (0.158g/100mL) ; 15028, ~~15029~~, ~~15030~~

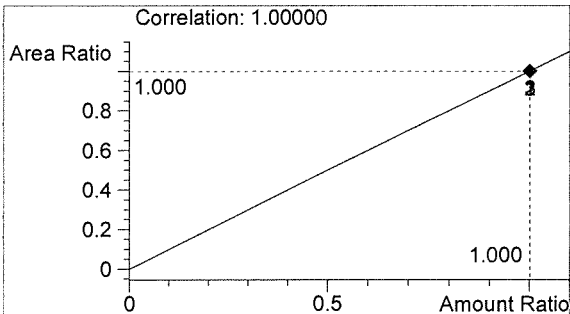
JK 7.2.15



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1132 | 1.019 |
| 2 | n-Propanol | 1513 | 1.745 |



Ethanol 0.159 g/100mL



n-Propanol 0.012 g/100mL

JK

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

Inj. Date: 6/19/2015 1:37:53 PM

Sample Name: CAL3 0.316

Instrument: HSGC#3

Operator: Justin Knoy

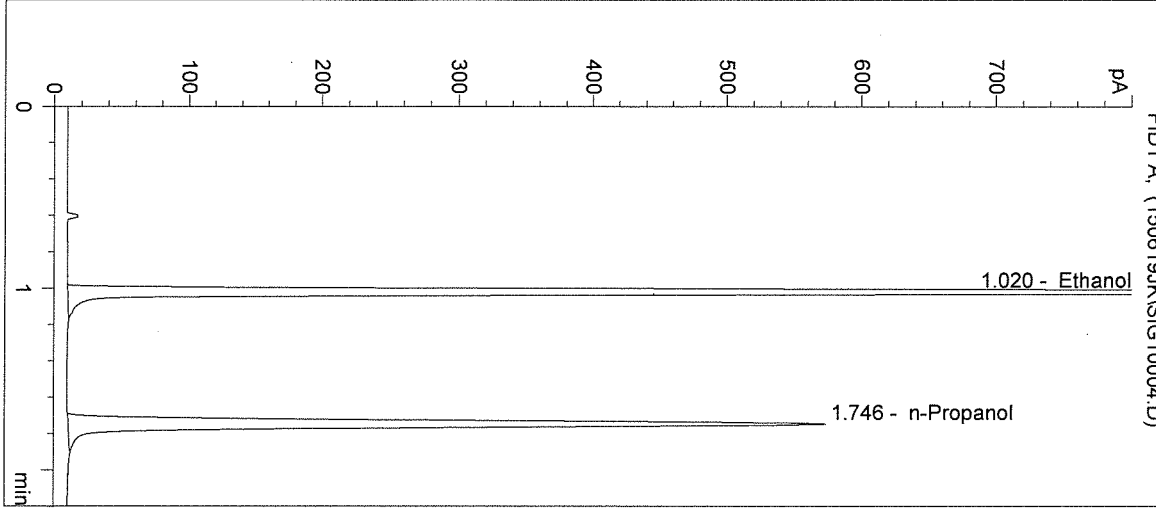
Column: DB-ALC2

Location: Vial 4

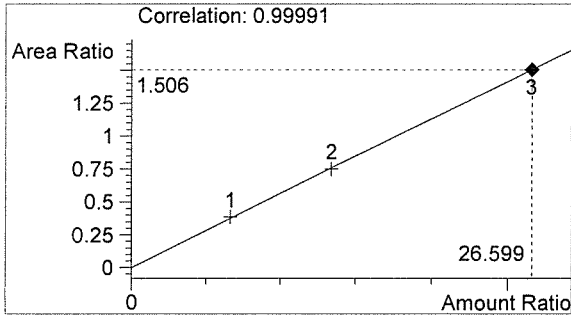
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: E0615-03 - (0.316g/100mL) ; 15028, ~~15029~~, ~~15030~~

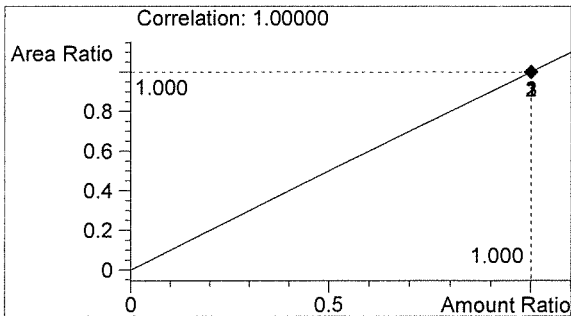
SK 7.2.15



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 2254 | 1.020 |
| 2 | n-Propanol | 1497 | 1.746 |



Ethanol 0.319 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

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

Inj. Date: 6/19/2015 1:41:06 PM

Sample Name: NEG CTRL

Instrument: HSGC#3

Operator: Justin Knoy

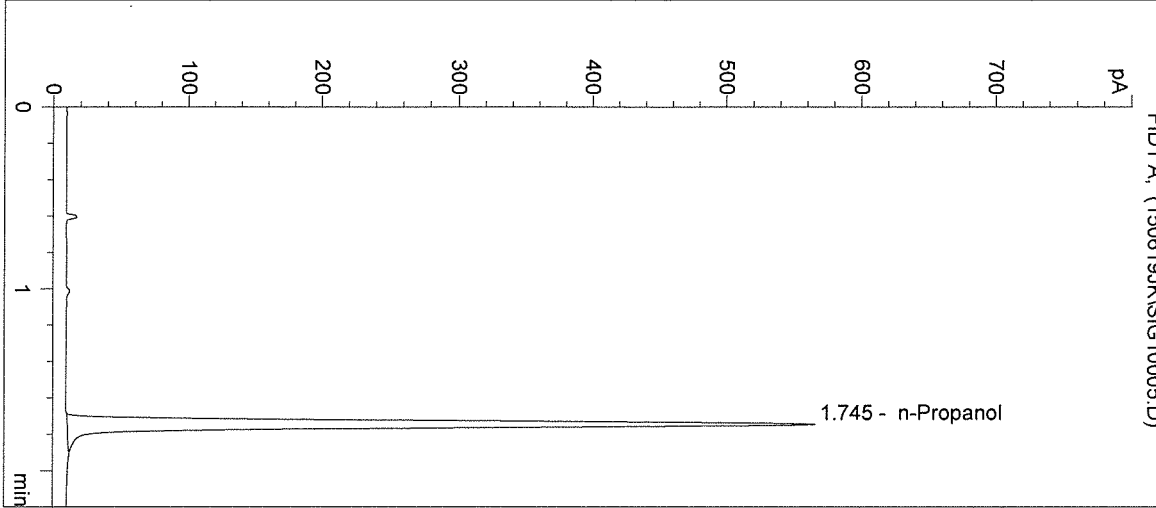
Column: DB-ALC2

Location: Vial 5

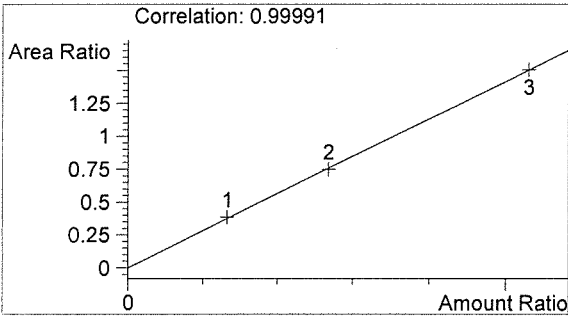
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: 15028, ~~15029~~, ~~15030~~

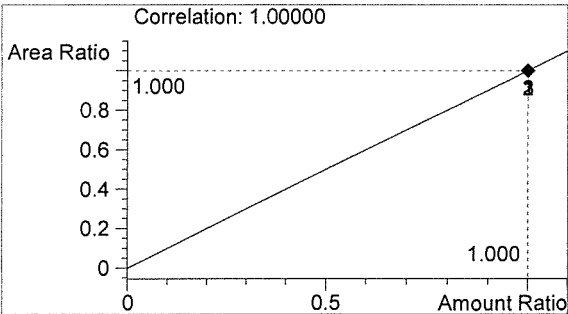
JK 7.2.15



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1478 | 1.745 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

JK

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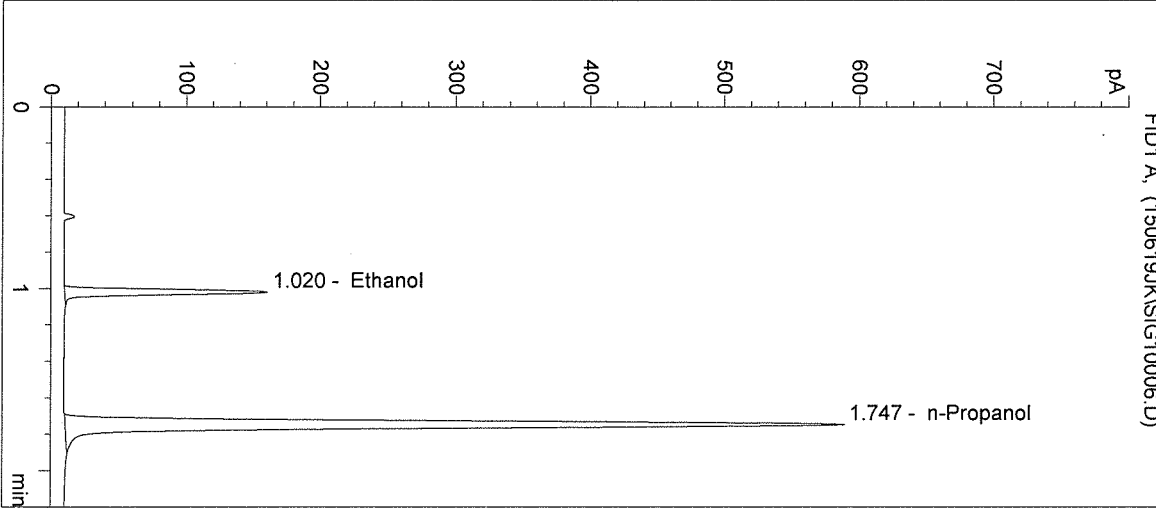
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/19/2015 1:44:19 PM
Instrument: HSGC#3
Column: DB-ALC2

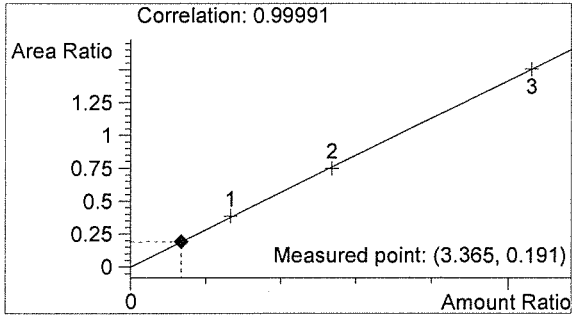
Sample Name: CTRL1 (0.04)
Operator: Justin Knoy
Location: Vial 6

Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 0.04g/100mL ; 15028, ~~15029~~, ~~15030~~

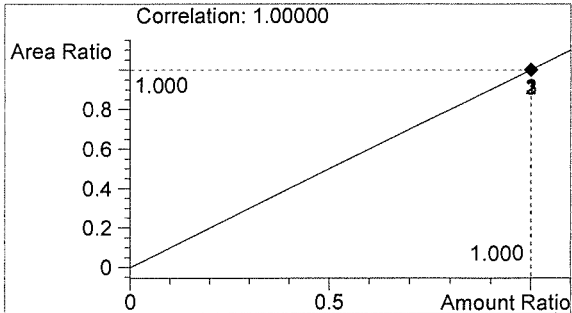
JK 7-2-15



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 295 | 1.020 |
| 2 | n-Propanol | 1541 | 1.747 |



Ethanol 0.040 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

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

Inj. Date: 6/19/2015 1:47:33 PM

Sample Name: CTRL2 (0.10)

Instrument: HSGC#3

Operator: Justin Knoy

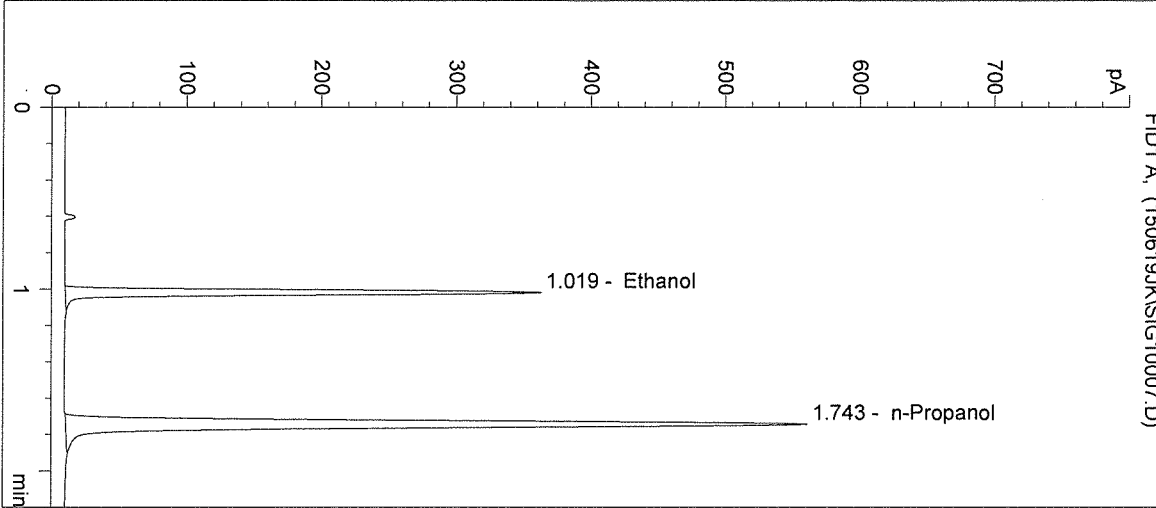
Column: DB-ALC2

Location: Vial 7

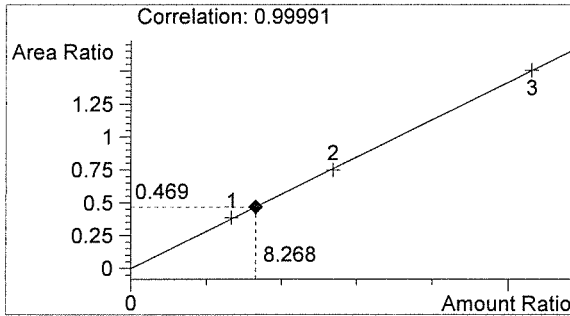
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: 0.10g/100mL ; 15028, ~~15029~~, ~~15030~~

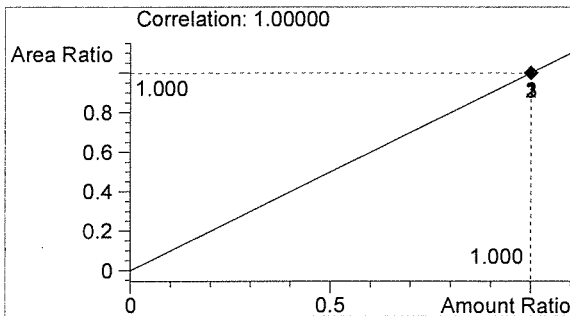
JK 7.2.15



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 687 | 1.019 |
| 2 | n-Propanol | 1466 | 1.743 |



Ethanol 0.099 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

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

Inj. Date: 6/19/2015 1:50:46 PM

Sample Name: CTRL3 (0.20)

Instrument: HSGC#3

Operator: Justin Knoy

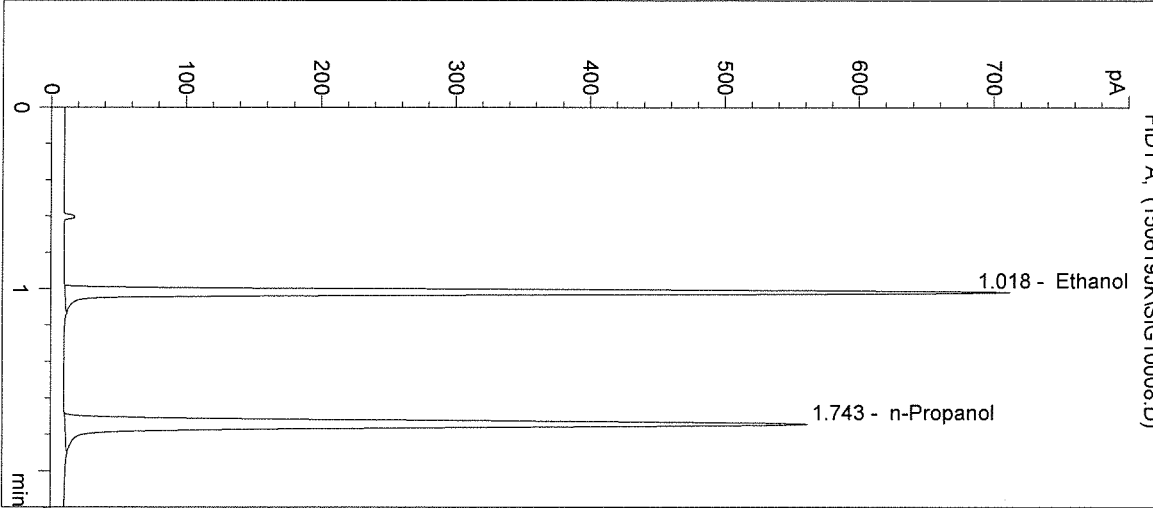
Column: DB-ALC2

Location: Vial 8

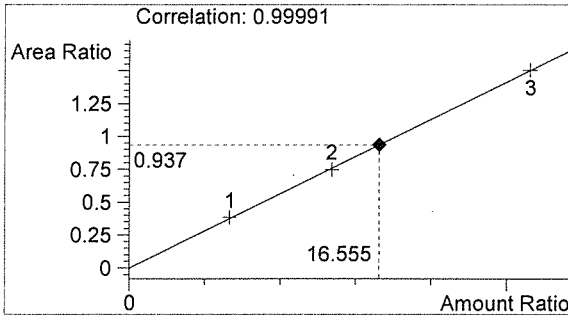
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: 0.20g/100mL ; 15028, ~~15029~~, ~~15030~~

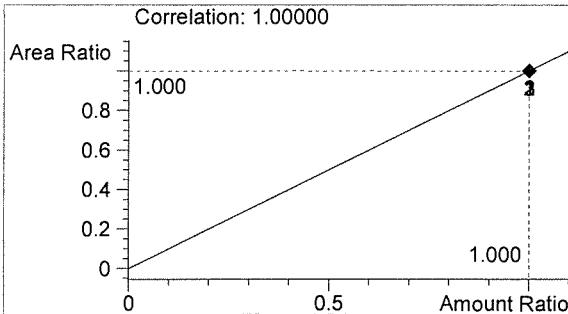
JK 7-2-15



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1372 | 1.018 |
| 2 | n-Propanol | 1463 | 1.743 |



Ethanol 0.199 g/100mL



n-Propanol 0.012 g/100mL

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

Inj. Date: 6/19/2015 1:54:00 PM

Sample Name: NEG CTRL

Instrument: HSGC#3

Operator: Justin Knoy

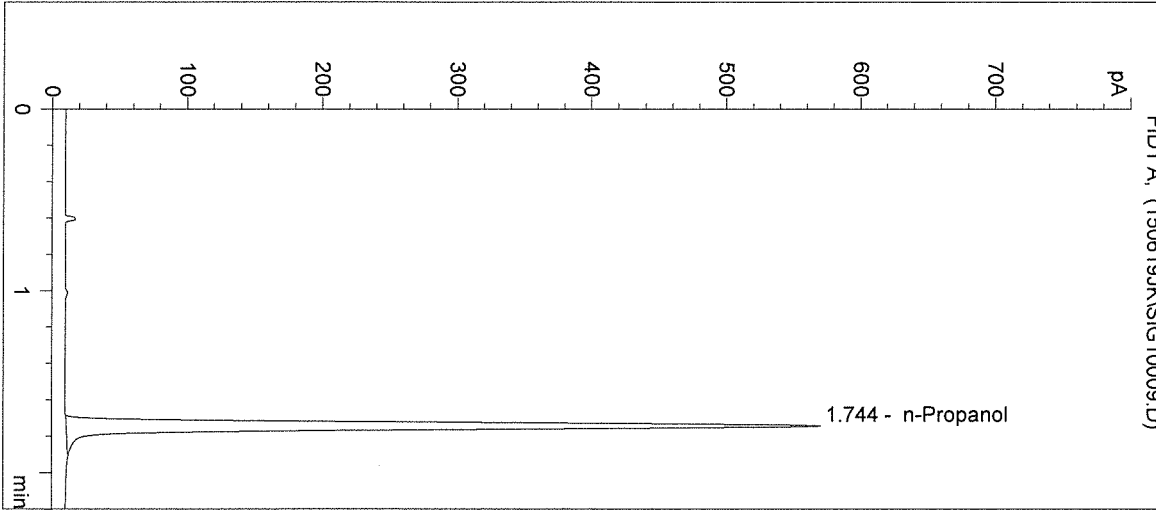
Column: DB-ALC2

Location: Vial 9

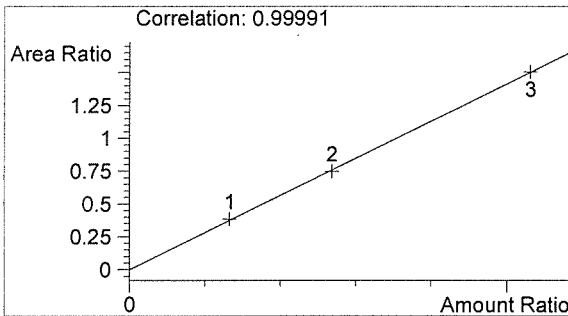
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: 15028, ~~15029~~, ~~15030~~

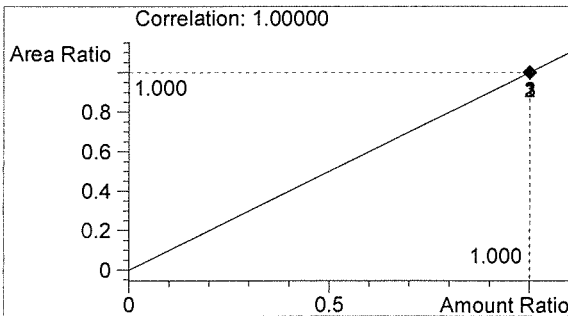
JK 7-2-15



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1493 | 1.744 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

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

Inj. Date: 6/19/2015 1:57:13 PM

Sample Name: 15028-1

Instrument: HSGC#3

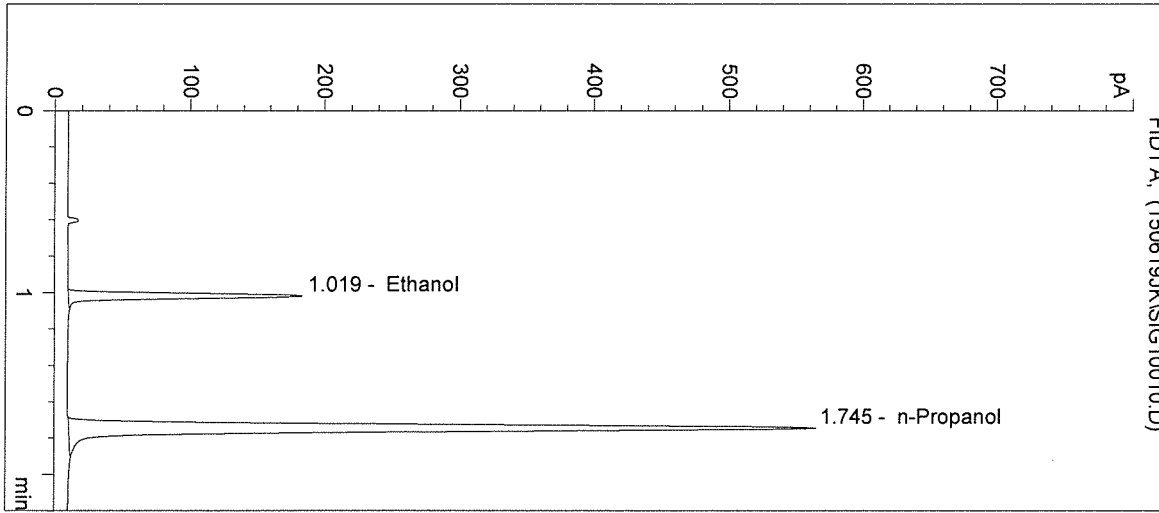
Operator: Justin Knoy

Column: DB-ALC2

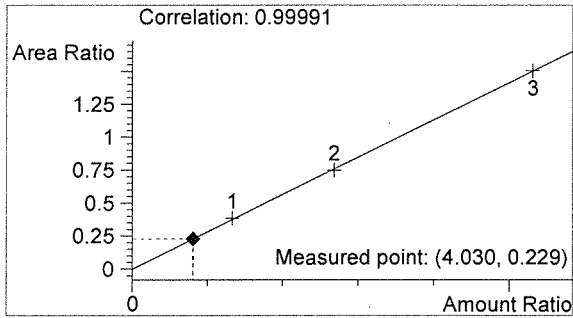
Location: Vial 10

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

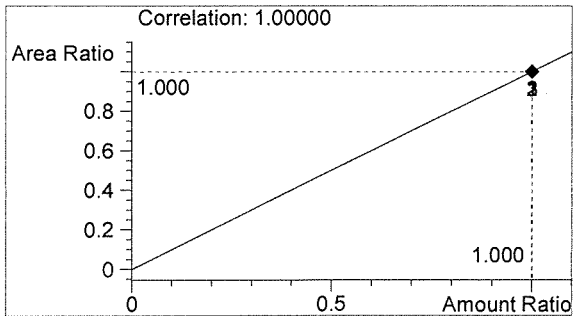
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 337 | 1.019 |
| 2 | n-Propanol | 1473 | 1.745 |



Ethanol 0.048 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

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

Inj. Date: 6/19/2015 2:00:27 PM

Sample Name: 15028-2

Instrument: HSGC#3

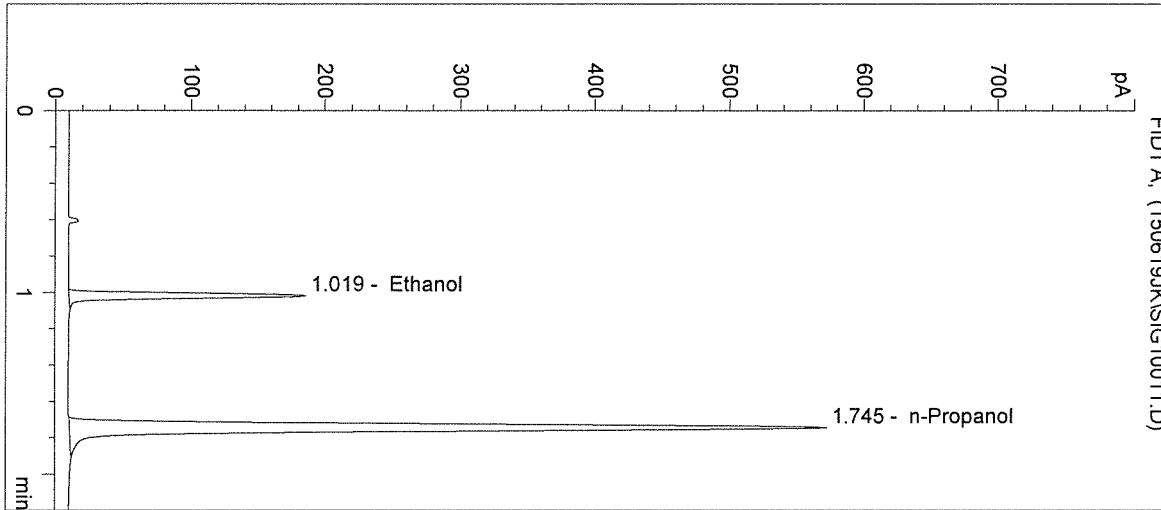
Operator: Justin Knoy

Column: DB-ALC2

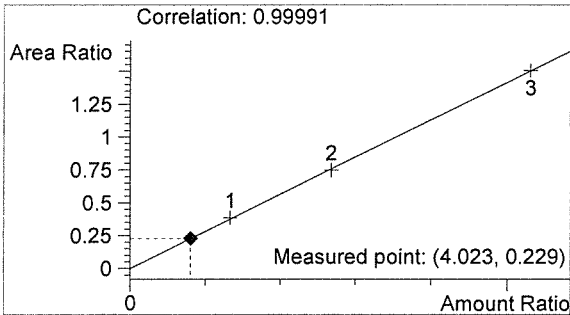
Location: Vial 11

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

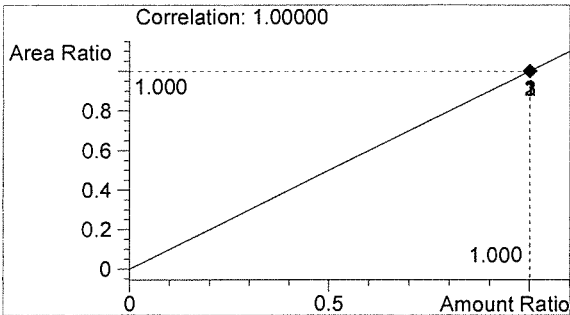
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 341 | 1.019 |
| 2 | n-Propanol | 1492 | 1.745 |



Ethanol 0.048 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

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

Inj. Date: 6/19/2015 2:03:40 PM

Sample Name: 15028-3

Instrument: HSGC#3

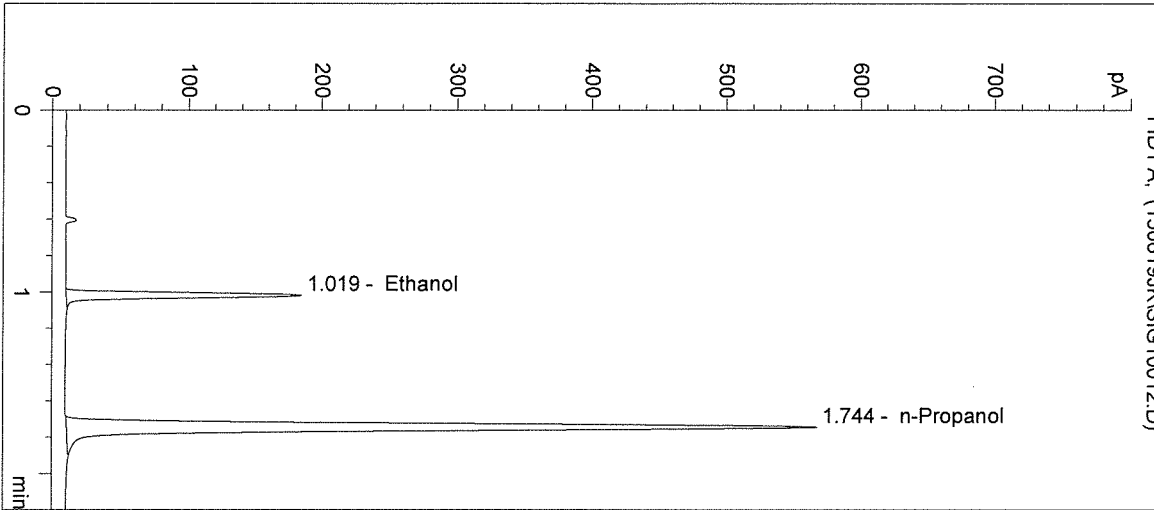
Operator: Justin Knoy

Column: DB-ALC2

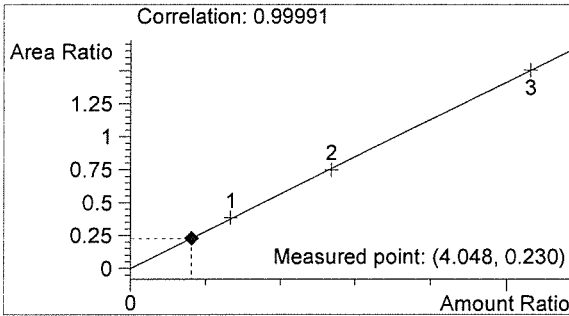
Location: Vial 12

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

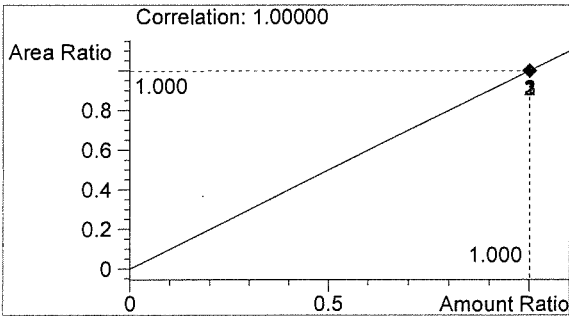
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 341 | 1.019 |
| 2 | n-Propanol | 1485 | 1.744 |



Ethanol 0.049 g/100mL



n-Propanol 0.012 g/100mL

JK

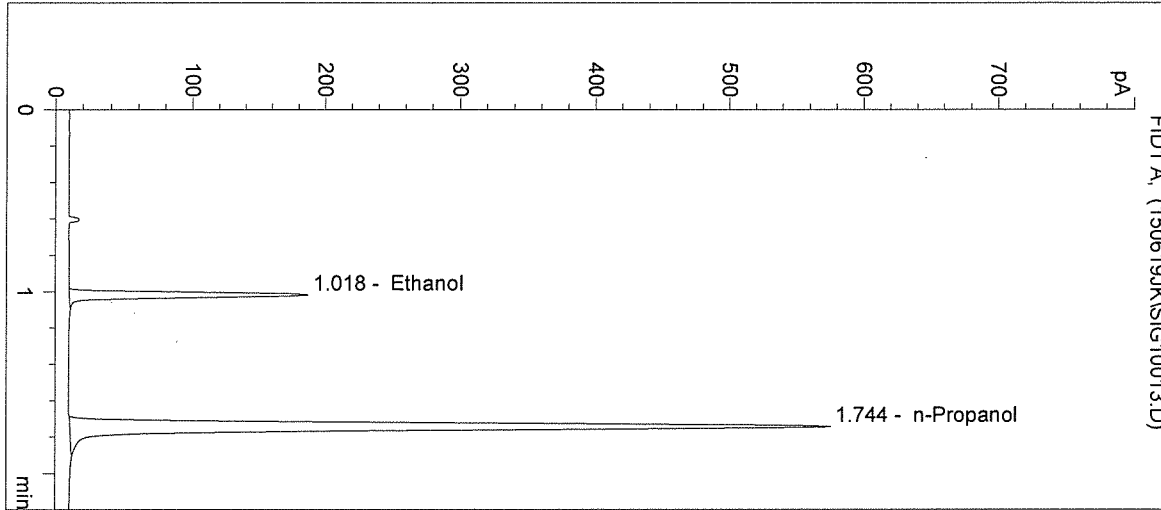
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/19/2015 2:06:54 PM
Instrument: HSGC#3
Column: DB-ALC2

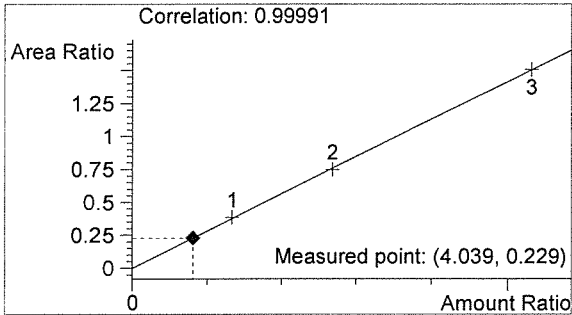
Sample Name: 15028-4
Operator: Justin Knoy
Location: Vial 13

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

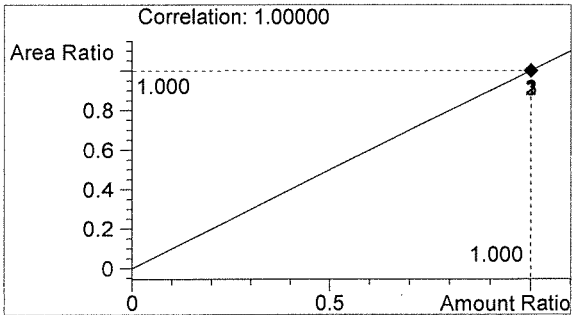
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 345 | 1.018 |
| 2 | n-Propanol | 1504 | 1.744 |



Ethanol 0.048 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

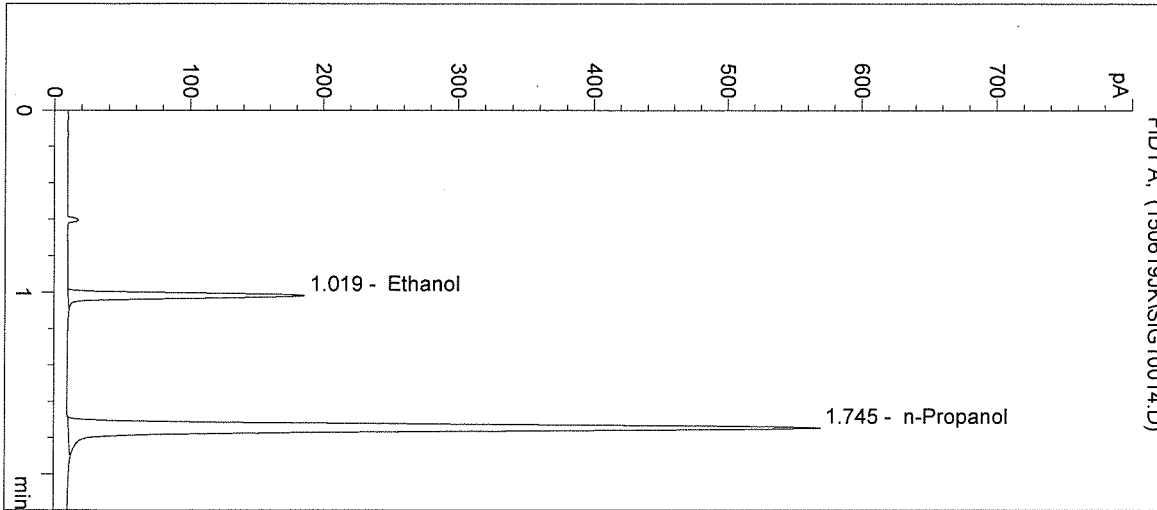
Washington State Patrol Toxicology Laboratory
2203 Airport Way S Seattle, WA 98134

Inj. Date: 6/19/2015 2:10:07 PM
Instrument: HSGC#3
Column: DB-ALC2

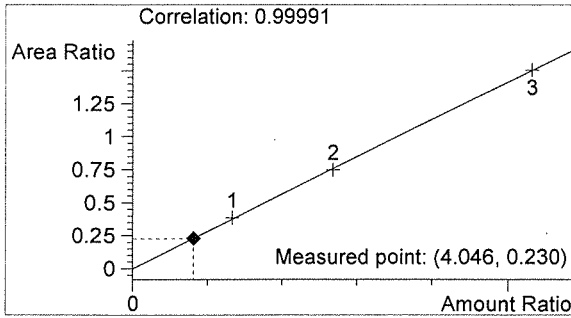
Sample Name: 15028-5
Operator: Justin Knoy
Location: Vial 14

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

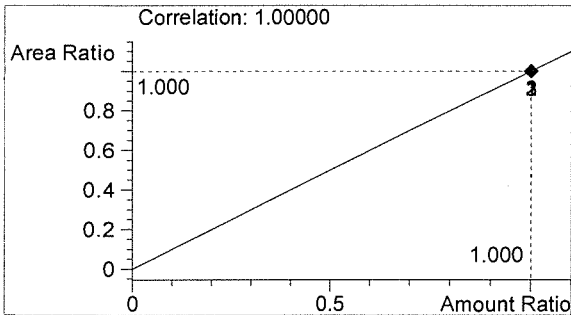
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 342 | 1.019 |
| 2 | n-Propanol | 1486 | 1.745 |



Ethanol 0.049 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

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

Inj. Date: 6/19/2015 2:13:20 PM

Sample Name: CTRL2 (0.10)

Instrument: HSGC#3

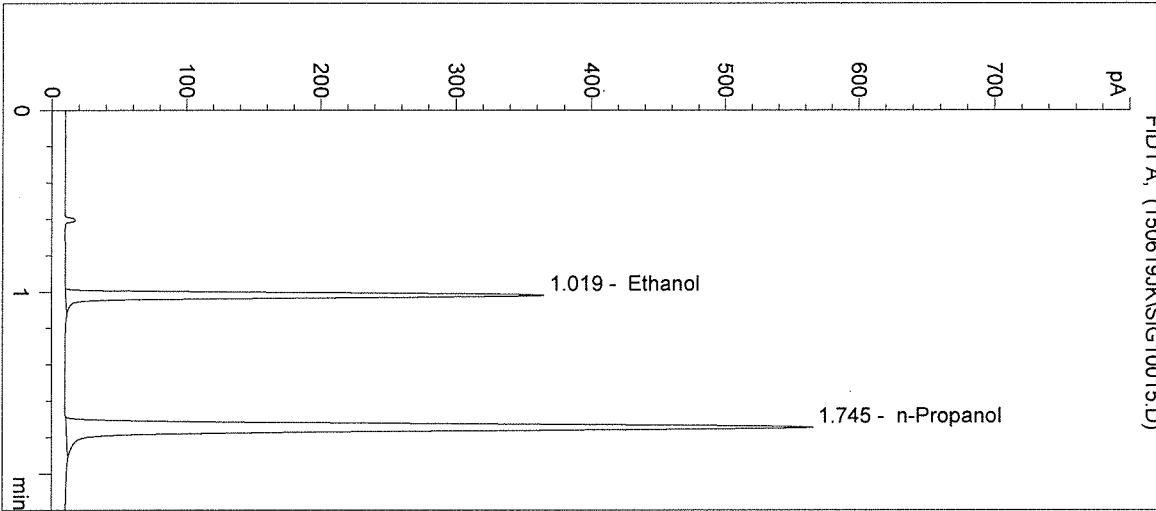
Operator: Justin Knoy

Column: DB-ALC2

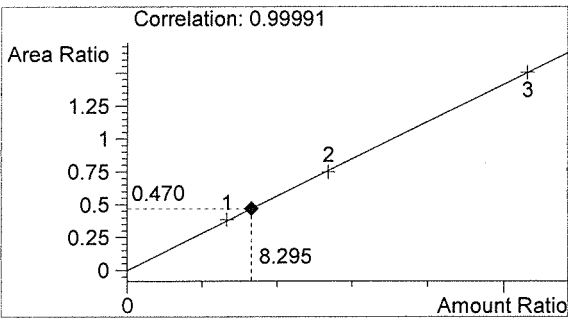
Location: Vial 15

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

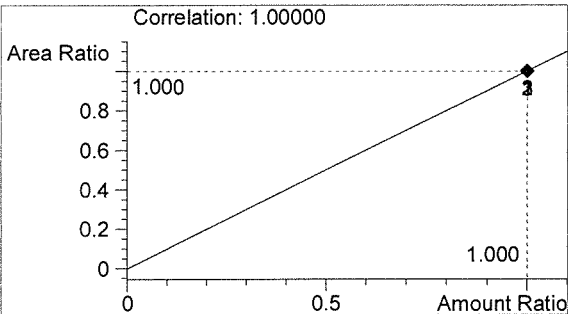
Sample Info: 0.10g/100mL ; 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 696 | 1.019 |
| 2 | n-Propanol | 1480 | 1.745 |



Ethanol 0.100 g/100mL



n-Propanol 0.012 g/100mL

JK

JK

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

Inj. Date: 6/19/2015 2:16:34 PM

Sample Name: NEG CTRL

Instrument: HSGC#3

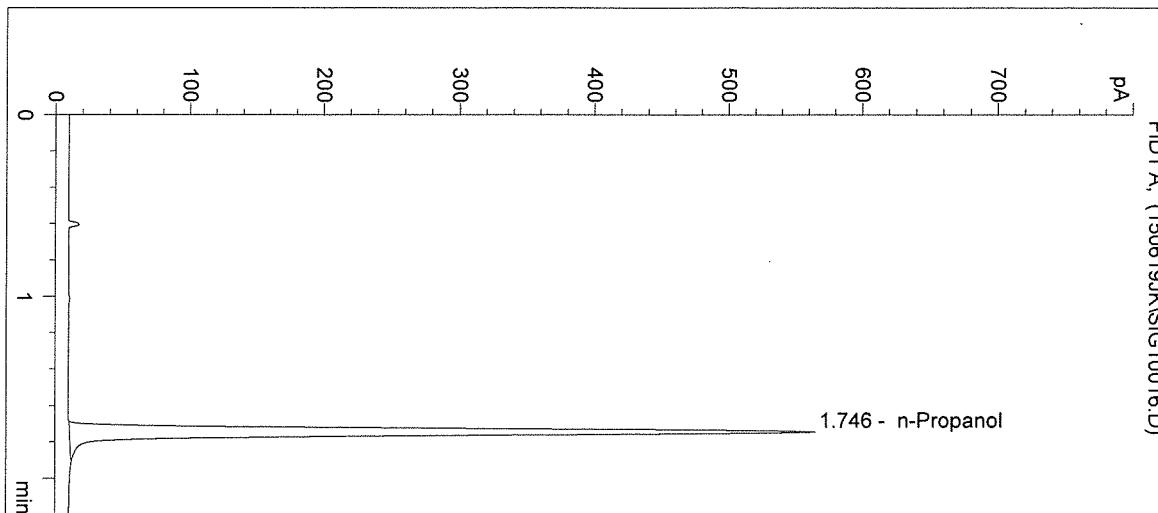
Operator: Justin Knoy

Column: DB-ALC2

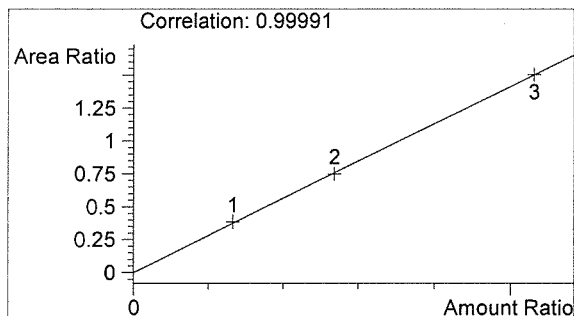
Location: Vial 16

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

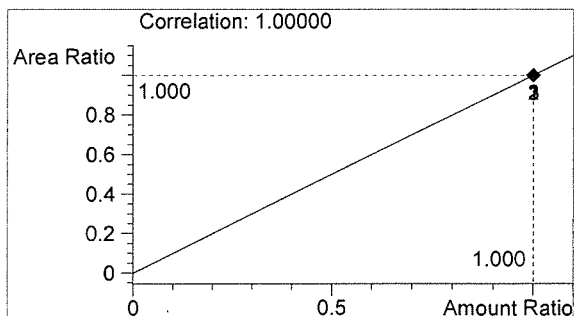
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1477 | 1.746 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

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Sequence Parameters:

Operator: Elizabeth Wehner
 Data File Naming: Prefix/Counter
 Signal 1 Prefix: SIG1
 Counter: 0001
 Signal 2 Prefix: SIG2
 Counter: 0001
 Data Directory: C:\HPCHEM\2\DATA\
 Data Subdirectory: 150623
 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#: E0615-01 Exp. 12/02/2015
 CAL 2: 0.158 g/100mL - Lot#: E0615-02 Exp. 12/02/2015
 CAL 3: 0.316 g/100mL - Lot#: E0615-03 Exp. 12/02/2015

CTRL 1: 0.04 g/100mL - Lot#: FN05011301 Exp. 05/2018
 CTRL 2: 0.10 g/100mL - Lot#: FN08051301 Exp. 10/2018
 CTRL 3: 0.20 g/100mL - Lot#: FN03211401 Exp. 06/2019

n-Propanol ISTD - Lot#: P0615 Exp. 09/04/2015

Calibration vials 1-9 are filed with Batch 15028.

Sequence Table (Front Injector):

Method and Injection Info Part:

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|-----------------|---------|-----|------------|-----------|----------|
| 1 | Vial 1 | BLANK | SIMALC3 | 1 | Sample | | |
| 2 | Vial 2 | CAL 1 (0.079) | SIMALC3 | 1 | Calib | | |
| 3 | Vial 3 | CAL 2 (0.158) | SIMALC3 | 1 | Calib | | |
| 4 | Vial 4 | CAL 3 (0.316) | SIMALC3 | 1 | Calib | | |
| 5 | Vial 5 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 6 | Vial 6 | CTRL 1 (0.04) | SIMALC3 | 1 | Ctrl Samp | | |
| 7 | Vial 7 | CTRL 2 (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 8 | Vial 8 | CTRL 3 (0.20) | SIMALC3 | 1 | Ctrl Samp | | |
| 9 | Vial 9 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 10 | Vial 10 | 15028 #1 | SIMALC3 | 1 | Sample | | |
| 11 | Vial 11 | 15028 #2 | SIMALC3 | 1 | Sample | | |
| 12 | Vial 12 | 15028 #3 | SIMALC3 | 1 | Sample | | |
| 13 | Vial 13 | 15028 #4 | SIMALC3 | 1 | Sample | | |
| 14 | Vial 14 | 15028 #5 | SIMALC3 | 1 | Sample | | |
| 15 | Vial 15 | POS CTRL (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 16 | Vial 16 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 17 | Vial 17 | 15029 #1 | SIMALC3 | 1 | Sample | | |
| 18 | Vial 18 | 15029 #2 | SIMALC3 | 1 | Sample | | |
| 19 | Vial 19 | 15029 #3 | SIMALC3 | 1 | Sample | | |
| 20 | Vial 20 | 15029 #4 | SIMALC3 | 1 | Sample | | |
| 21 | Vial 21 | 15029 #5 | SIMALC3 | 1 | Sample | | |
| 22 | Vial 22 | POS CTRL (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 23 | Vial 23 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 24 | Vial 24 | 15030 #1 | SIMALC3 | 1 | Sample | | |

15028

Handwritten signature

Handwritten signature

EW

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|------|----------|-----------------|---------|-----|------------|-----------|----------|
| 25 | Vial 25 | 15030 #2 | SIMALC3 | 1 | Sample | | |
| 26 | Vial 26 | 15030 #3 | SIMALC3 | 1 | Sample | | |
| 27 | Vial 27 | 15030 #4 | SIMALC3 | 1 | Sample | | |
| 28 | Vial 28 | 15030 #5 | SIMALC3 | 1 | Sample | | |
| 29 | Vial 29 | POS CTRL (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |

Calibration Part:

| Line | Location | SampleName | Method | CalLev | Update | RF | Update | RT | Interval |
|------|----------|---------------|---------|--------|---------|----|---------|----|----------|
| 2 | Vial 2 | CAL 1 (0.079) | SIMALC3 | 1 | Replace | | Replace | | |
| 3 | Vial 3 | CAL 2 (0.158) | SIMALC3 | 2 | Replace | | Replace | | |
| 4 | Vial 4 | CAL 3 (0.316) | SIMALC3 | 3 | Replace | | Replace | | |

Sequence Table (Back Injector):

No entries - empty table!

15028

for file

for

EW

=====
Calibration Table
=====

Calib. Data Modified : Tuesday, June 23, 2015 1:59:59 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 Name
[g/100mL]
-----|-----|-----
1 1.20000e-2 n-Propanol

Signal 1: FID1 A,

| RetTime [min] | Lvl Sig | Amount [g/100mL] | Area | Amt/Area | Ref Grp Name |
|---------------|---------|------------------|------------|------------|---------------|
| 1.018 | 1 1 | 7.97800e-2 | 549.67230 | 1.45141e-4 | 1 Ethanol |
| | 2 | 1.60980e-1 | 1142.85461 | 1.40858e-4 | |
| | 3 | 3.18440e-1 | 2157.22925 | 1.47615e-4 | |
| 1.743 | 1 1 | 1.20000e-2 | 1478.61304 | 8.11571e-6 | I1 n-Propanol |
| | 2 | 1.20000e-2 | 1510.30090 | 7.94544e-6 | |
| | 3 | 1.20000e-2 | 1453.19910 | 8.25764e-6 | |

=====
Peak Sum Table
=====

No Entries in table
=====

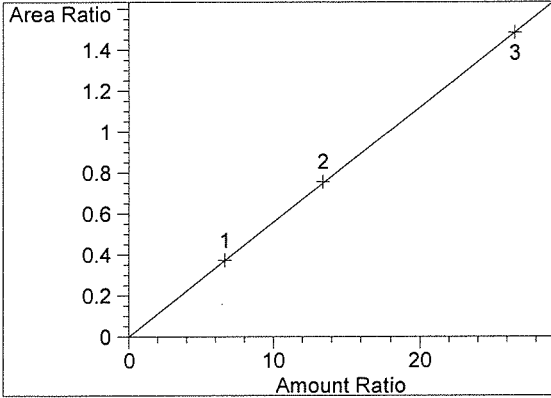
15028

for files

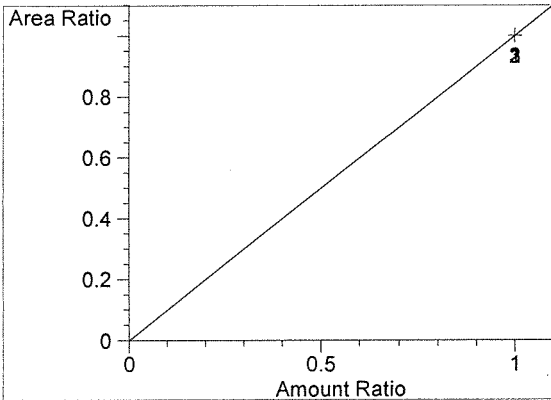
for

EW

=====
Calibration Curves
=====



Ethanol at exp. RT: 1.018
FID1 A,
Correlation: 0.99999
Residual Std. Dev.: 0.00385
Formula: $y = mx + b$
m: 5.59711e-2
b: 1.16786e-3
x: Amount Ratio
y: Area Ratio



n-Propanol at exp. RT: 1.743
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

=====
15028

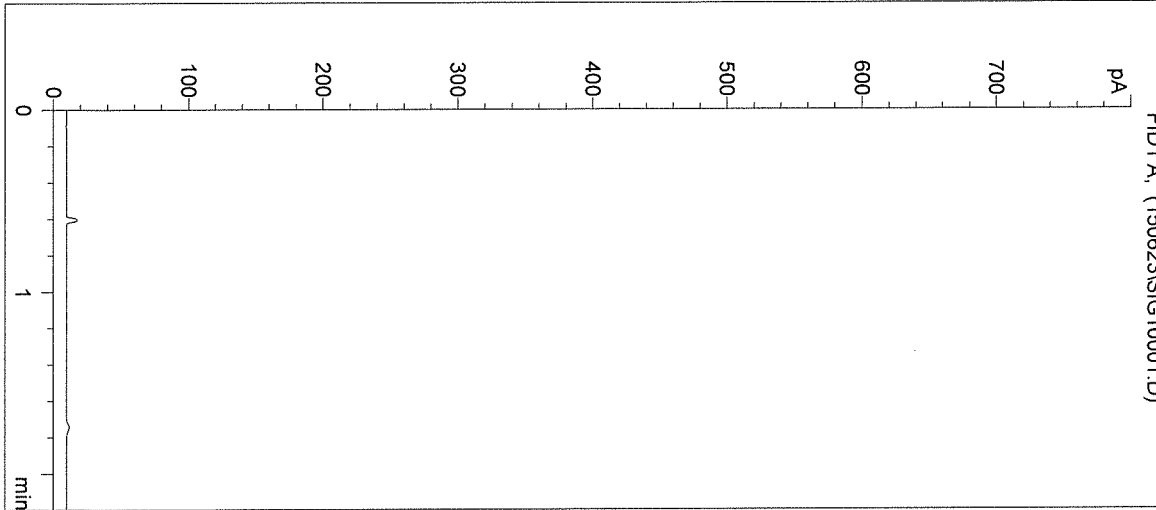
hullis

fr

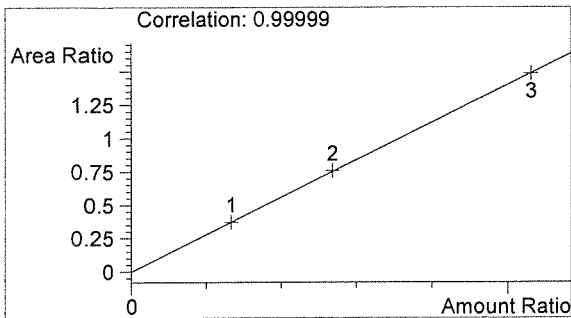
EW

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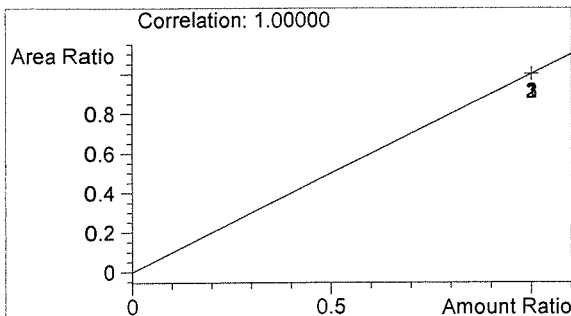
Inj. Date: 6/23/2015 1:47:55 PM Sample Name: BLANK
Instrument: HSGC#3 Operator: Elizabeth Wehner
Column: DB-ALC2 Location: Vial 1
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 15028



| # | 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

EW

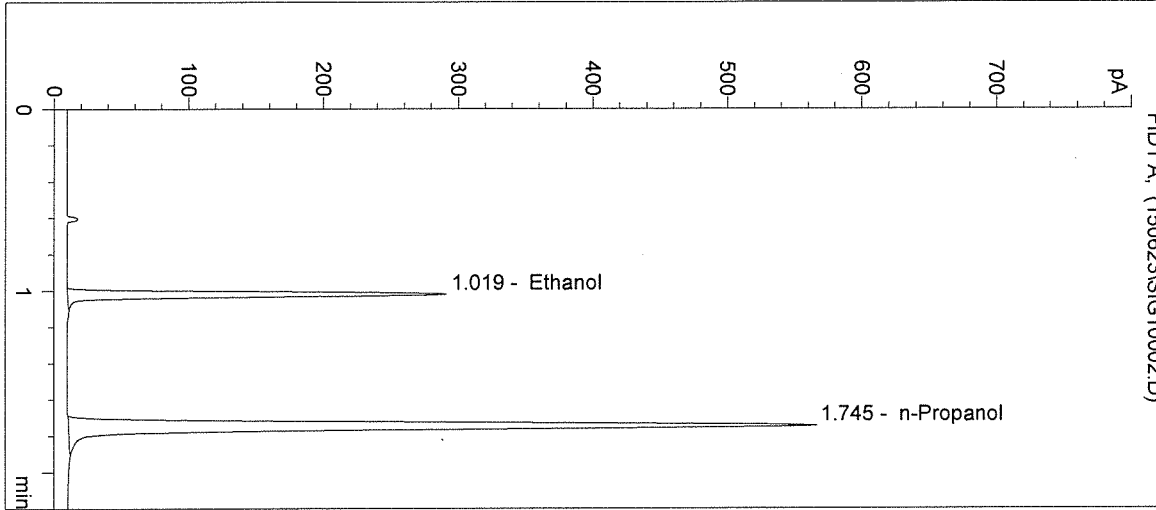
EW

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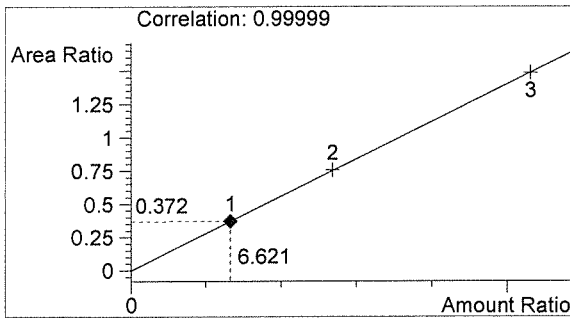
Inj. Date: 6/23/2015 1:51:14 PM
 Instrument: HSGC#3
 Column: DB-ALC2
 Method: C:\HPCHEM\2\METHODS\SIMALC3.M
 Sample Info: CAL 1: 0.079 g/100mL
 15028

Sample Name: CAL 1 (0.079)
 Operator: Elizabeth Wehner
 Location: Vial 2

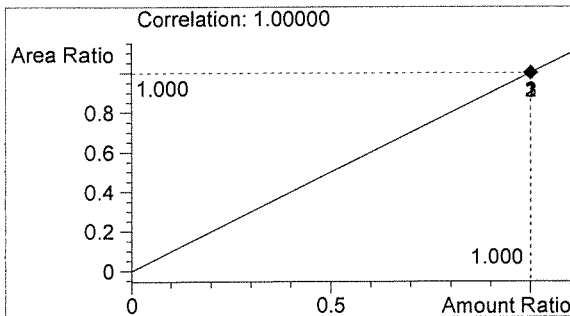
->



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 550 | 1.019 |
| 2 | n-Propanol | 1479 | 1.745 |



Ethanol 0.079 g/100mL



n-Propanol 0.012 g/100mL

EW

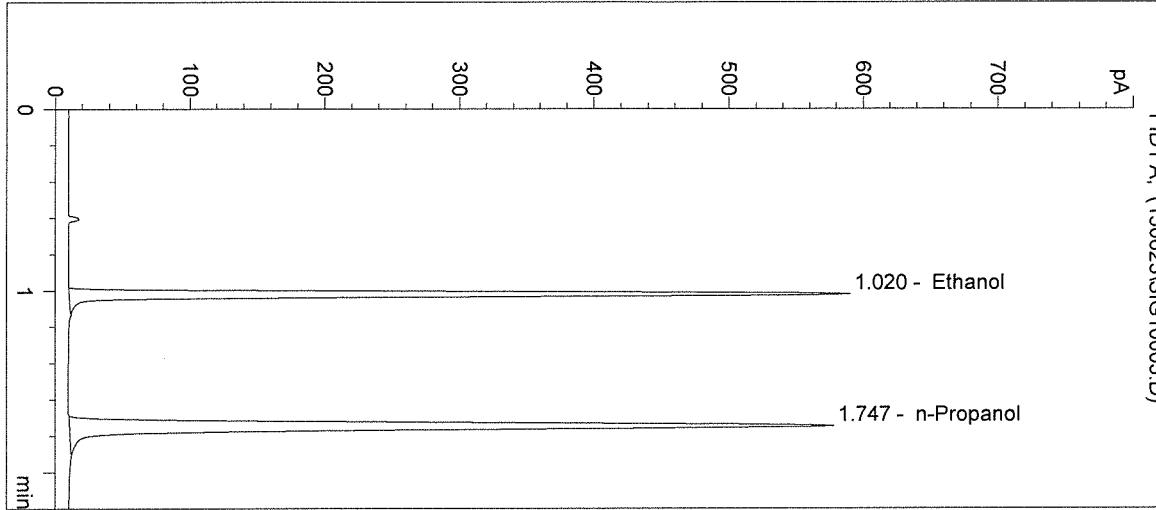
EW

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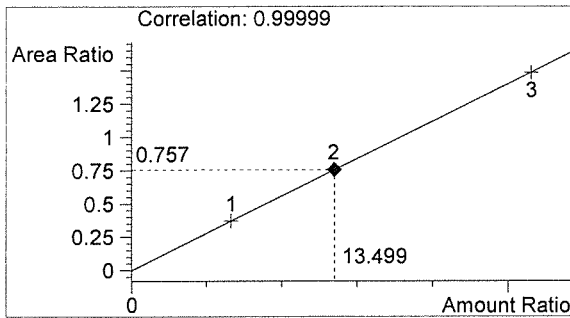
Inj. Date: 6/23/2015 1:54:32 PM
 Instrument: HSGC#3
 Column: DB-ALC2
 Method: C:\HPCHEM\2\METHODS\SIMALC3.M
 Sample Info: CAL 2: 0.158 g/100mL
 15028

Sample Name: CAL 2 (0.158)
 Operator: Elizabeth Wehner
 Location: Vial 3

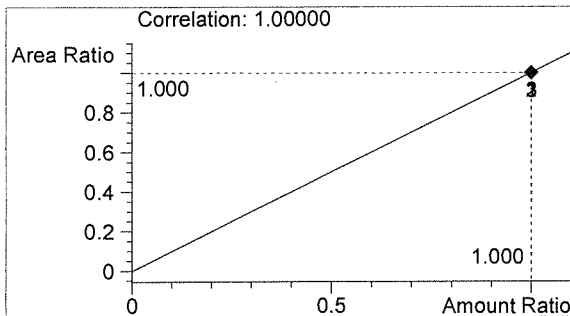
->



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1143 | 1.020 |
| 2 | n-Propanol | 1510 | 1.747 |



Ethanol 0.162 g/100mL



n-Propanol 0.012 g/100mL

EW

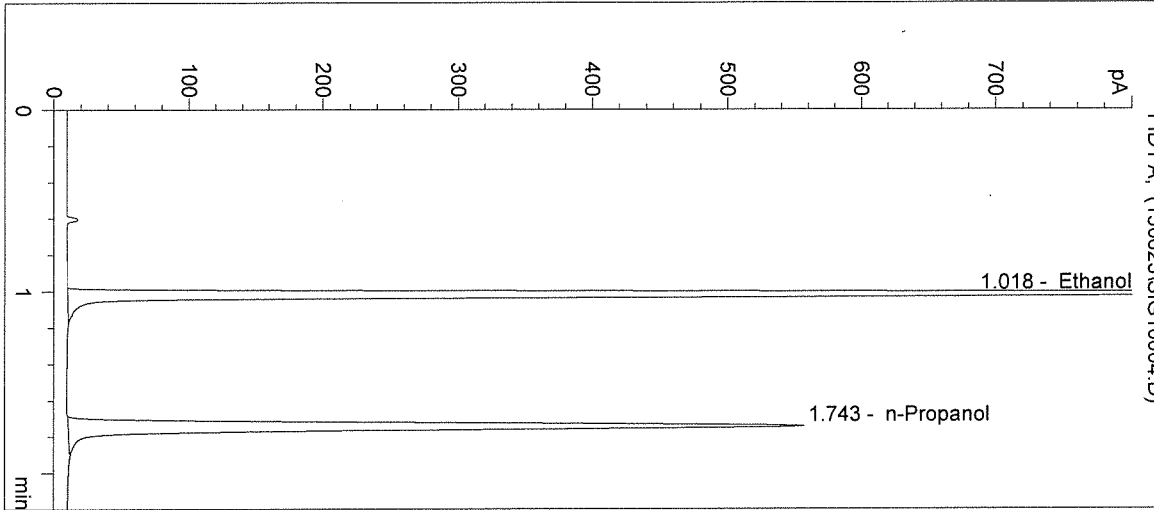
EW

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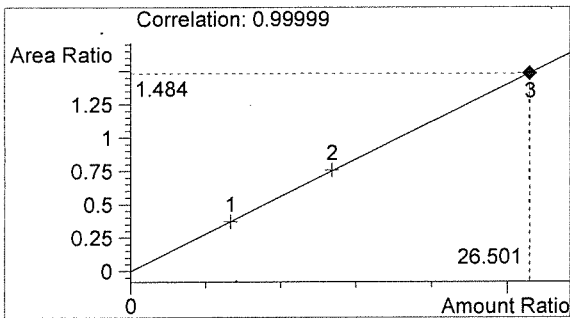
Inj. Date: 6/23/2015 1:57:47 PM
 Instrument: HSGC#3
 Column: DB-ALC2
 Method: C:\HPCHEM\2\METHODS\SIMALC3.M
 Sample Info: CAL 3: 0.316 g/100mL
 15028

Sample Name: CAL 3 (0.316)
 Operator: Elizabeth Wehner
 Location: Vial 4

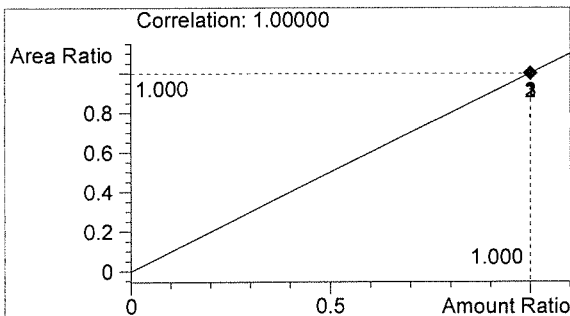
->



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 2157 | 1.018 |
| 2 | n-Propanol | 1453 | 1.743 |



Ethanol 0.318 g/100mL



n-Propanol 0.012 g/100mL

EW

EW

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Inj. Date: 6/23/2015 2:01:01 PM

Sample Name: NEG CTRL

Instrument: HSGC#3

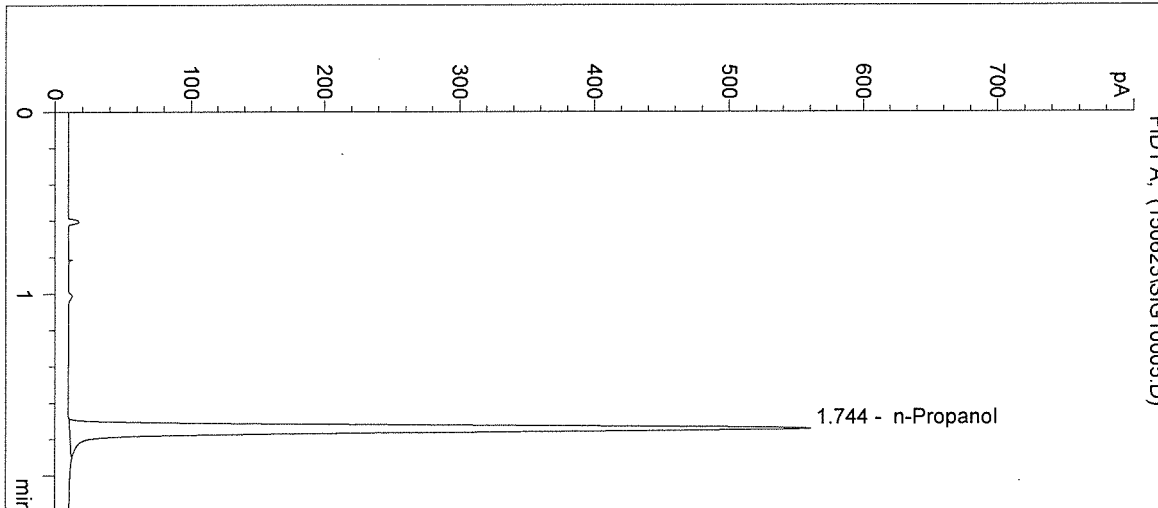
Operator: Elizabeth Wehner

Column: DB-ALC2

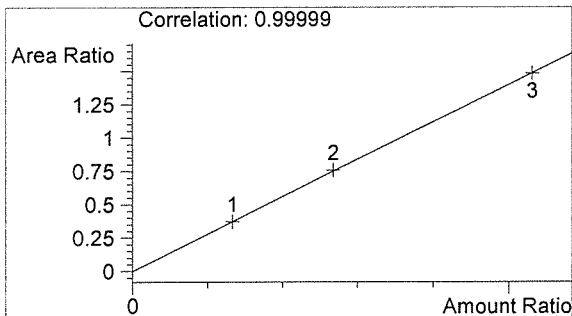
Location: Vial 5

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

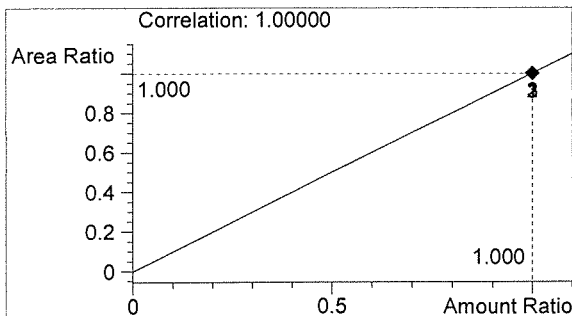
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1465 | 1.744 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

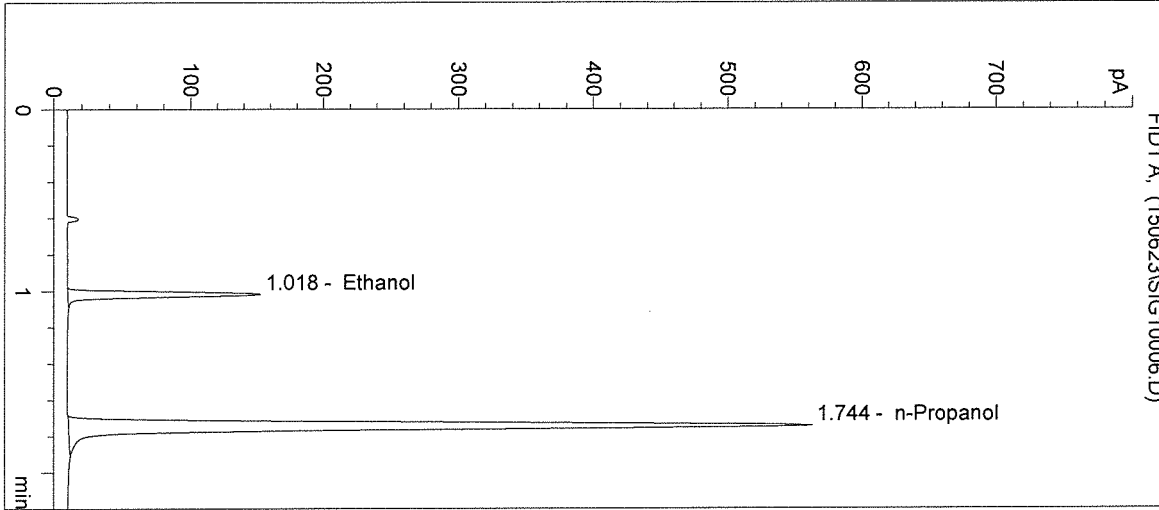
fn

EW

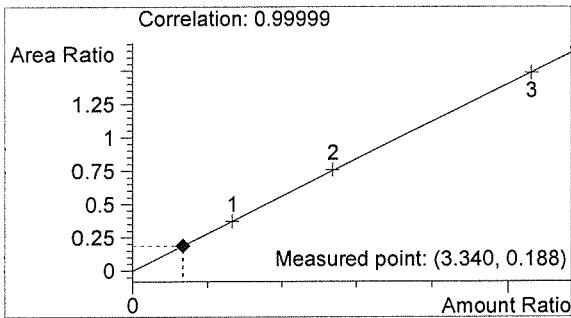
Washington State Patrol Toxicology Laboratory
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Inj. Date: 6/23/2015 2:04:15 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: CTRL 1: 0.04 g/100mL
15028

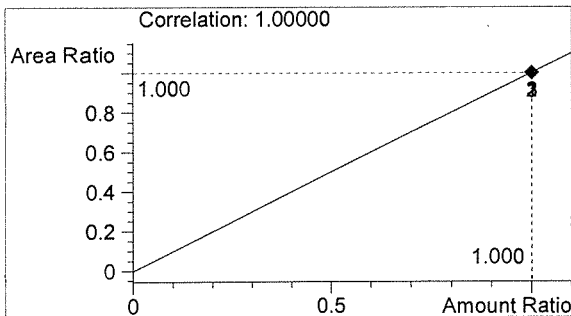
Sample Name: CTRL 1 (0.04)
Operator: Elizabeth Wehner
Location: Vial 6



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 276 | 1.018 |
| 2 | n-Propanol | 1469 | 1.744 |



Ethanol 0.040 g/100mL



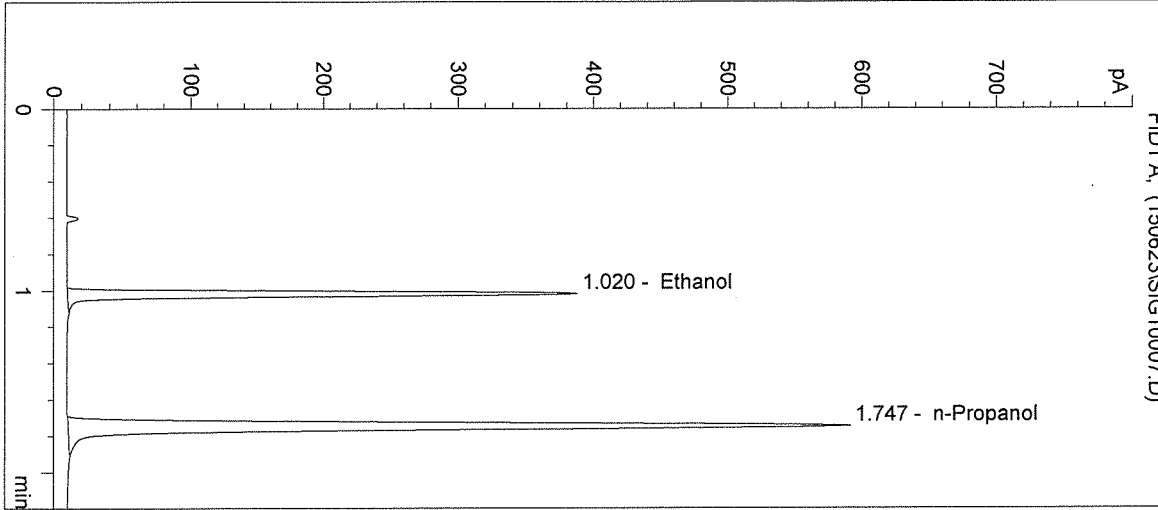
n-Propanol 0.012 g/100mL

EW

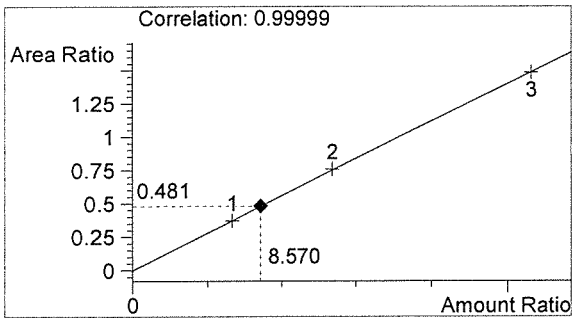
EW

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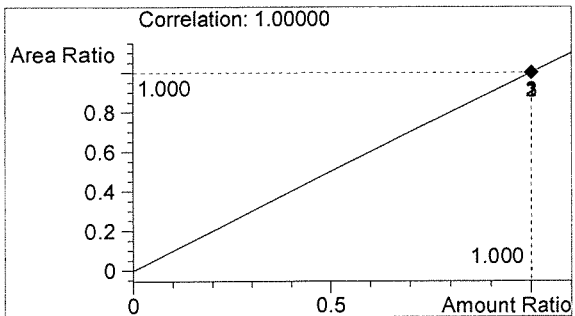
Inj. Date: 6/23/2015 2:07:28 PM Sample Name: CTRL 2 (0.10)
Instrument: HSGC#3 Operator: Elizabeth Wehner
Column: DB-ALC2 Location: Vial 7
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: CTRL 2: 0.10 g/100mL
15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 744 | 1.020 |
| 2 | n-Propanol | 1547 | 1.747 |



Ethanol 0.103 g/100mL



n-Propanol 0.012 g/100mL

EW

EW

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Inj. Date: 6/23/2015 2:10:41 PM

Sample Name: CTRL 3 (0.20)

Instrument: HSGC#3

Operator: Elizabeth Wehner

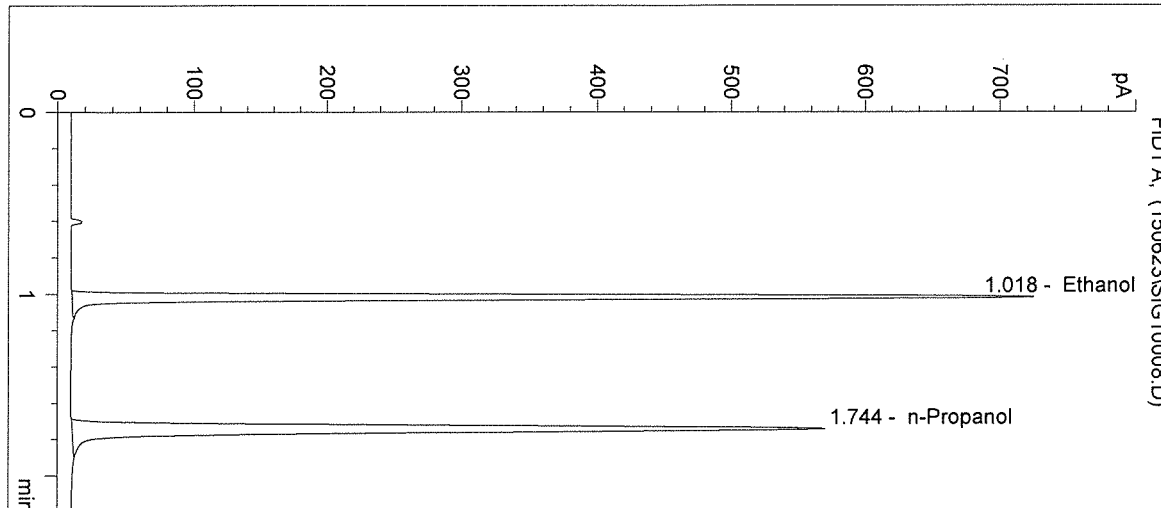
Column: DB-ALC2

Location: Vial 8

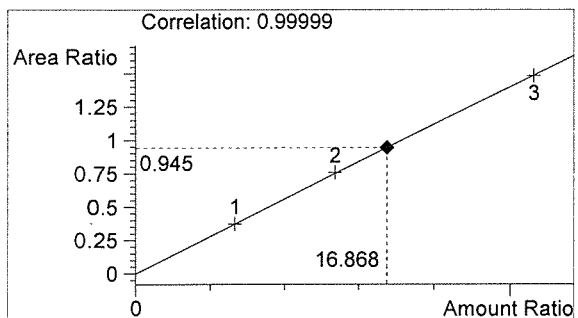
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: CTRL 3: 0.20 g/100mL
 15028

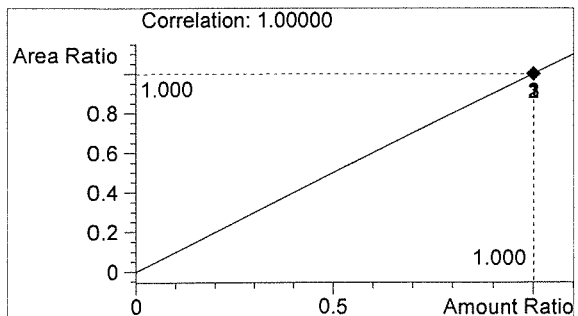
->



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 1405 | 1.018 |
| 2 | n-Propanol | 1486 | 1.744 |



Ethanol 0.202 g/100mL



n-Propanol 0.012 g/100mL

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Inj. Date: 6/23/2015 2:13:55 PM

Sample Name: NEG CTRL

Instrument: HSGC#3

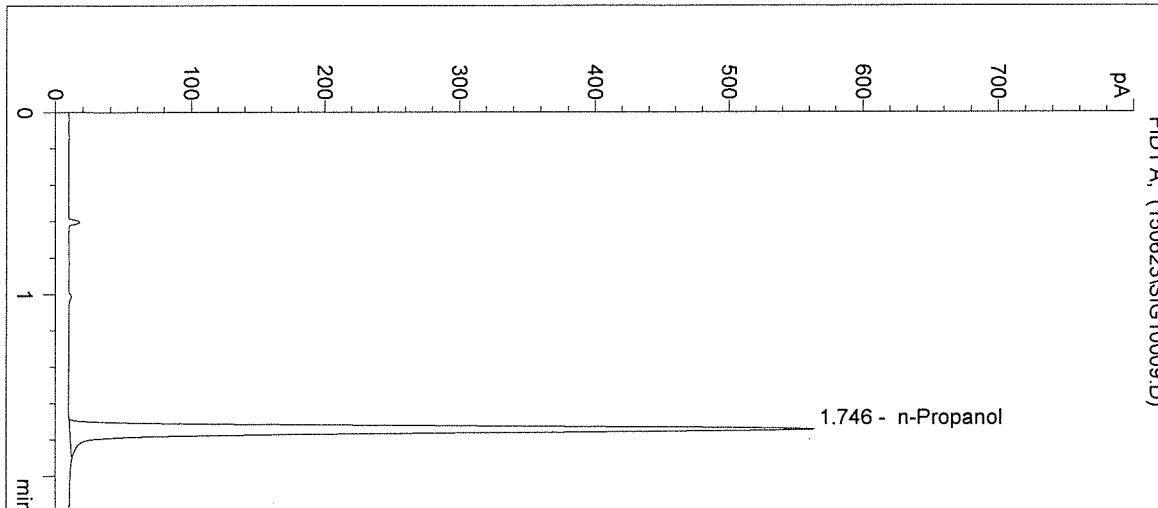
Operator: Elizabeth Wehner

Column: DB-ALC2

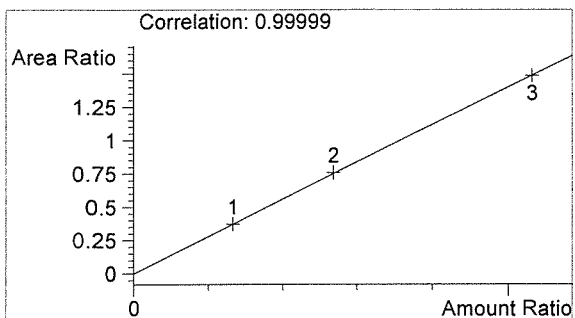
Location: Vial 9

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

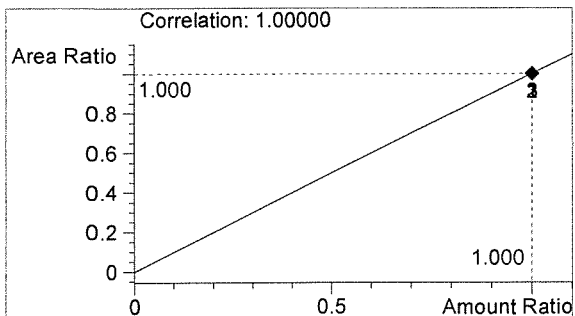
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1475 | 1.746 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

EW

EW

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Inj. Date: 6/23/2015 2:17:08 PM

Sample Name: 15028 #1

Instrument: HSGC#3

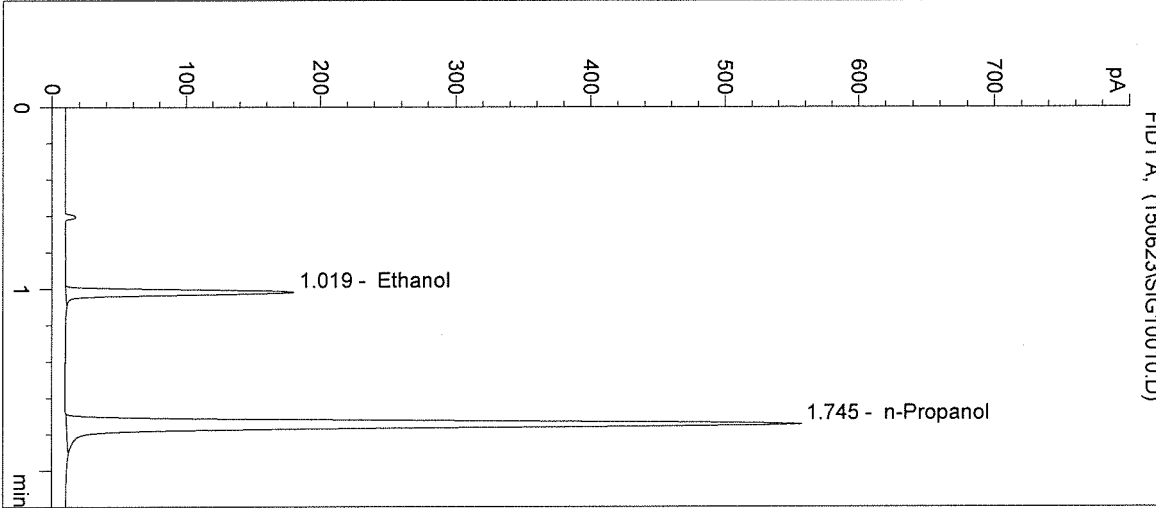
Operator: Elizabeth Wehner

Column: DB-ALC2

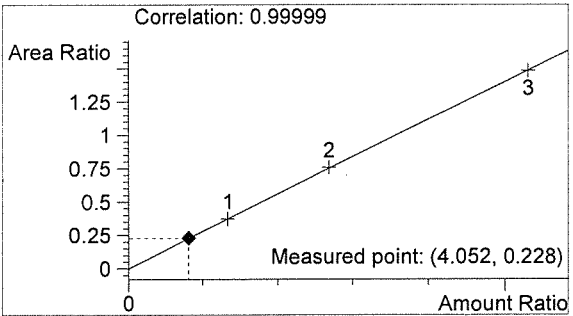
Location: Vial 10

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

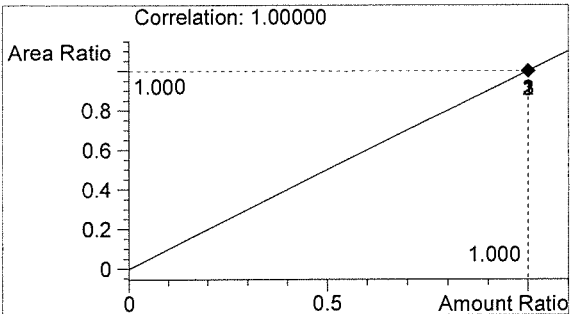
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 331 | 1.019 |
| 2 | n-Propanol | 1454 | 1.745 |



Ethanol 0.049 g/100mL



n-Propanol 0.012 g/100mL

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EW

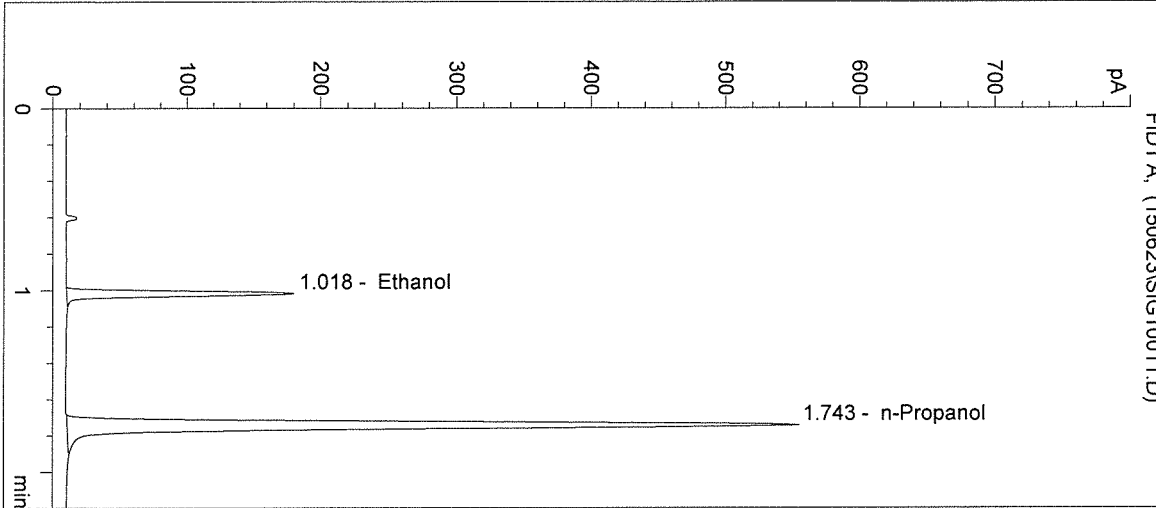
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Inj. Date: 6/23/2015 2:20:21 PM
Instrument: HSGC#3

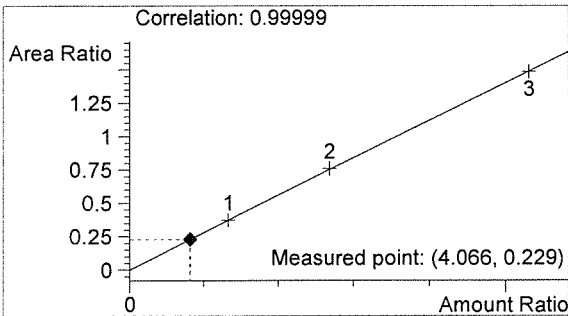
Sample Name: 15028 #2
Operator: Elizabeth Wehner
Location: Vial 11

Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

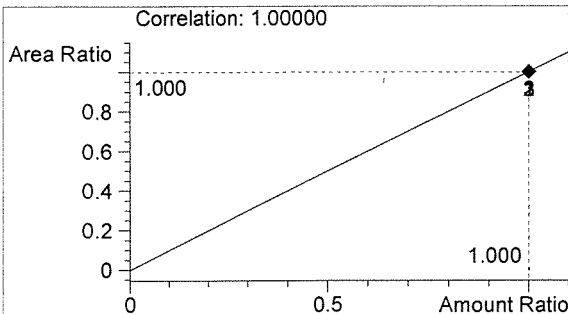
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 330 | 1.018 |
| 2 | n-Propanol | 1444 | 1.743 |



Ethanol 0.049 g/100mL



n-Propanol 0.012 g/100mL

EW

EW

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Inj. Date: 6/23/2015 2:23:35 PM

Sample Name: 15028 #3

Instrument: HSGC#3

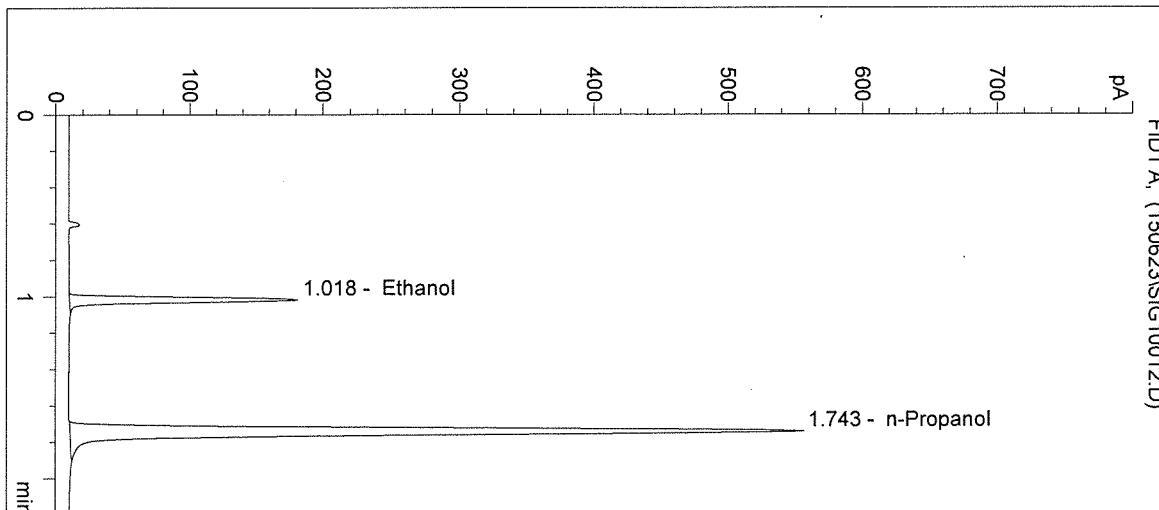
Operator: Elizabeth Wehner

Column: DB-ALC2

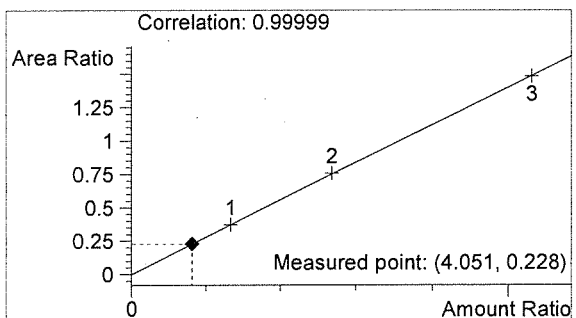
Location: Vial 12

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

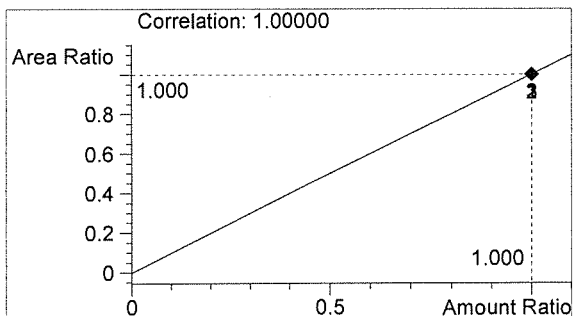
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 331 | 1.018 |
| 2 | n-Propanol | 1451 | 1.743 |



Ethanol 0.049 g/100mL



n-Propanol 0.012 g/100mL

EW

EW

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Inj. Date: 6/23/2015 2:26:48 PM

Sample Name: 15028 #4

Instrument: HSGC#3

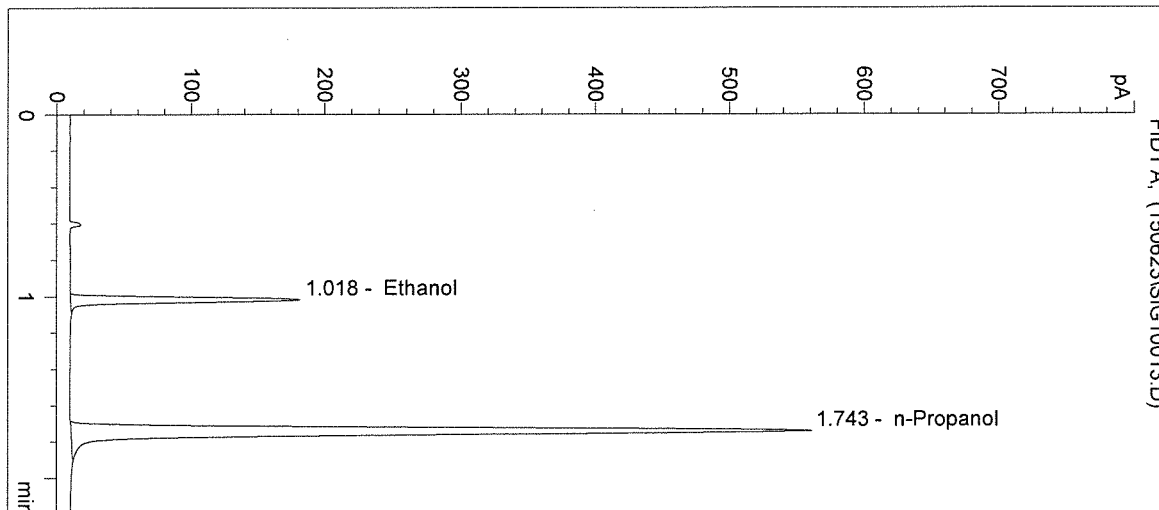
Operator: Elizabeth Wehner

Column: DB-ALC2

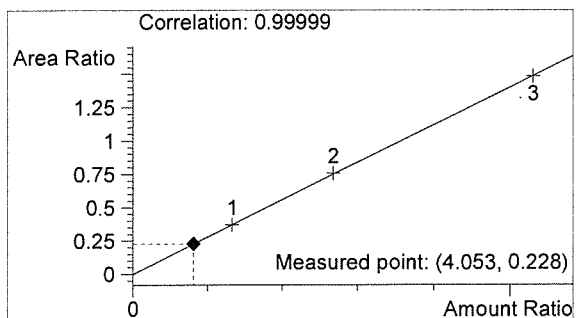
Location: Vial 13

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

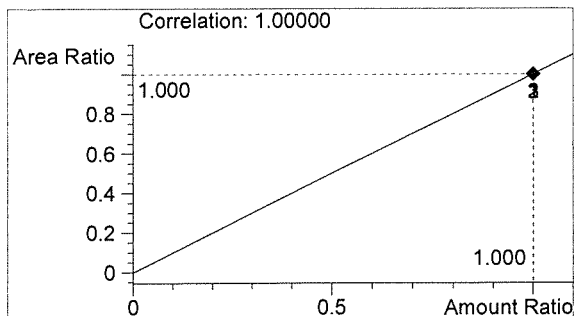
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 334 | 1.018 |
| 2 | n-Propanol | 1464 | 1.743 |



Ethanol 0.049 g/100mL



n-Propanol 0.012 g/100mL

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EW

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Inj. Date: 6/23/2015 2:30:02 PM

Sample Name: 15028 #5

Instrument: HSGC#3

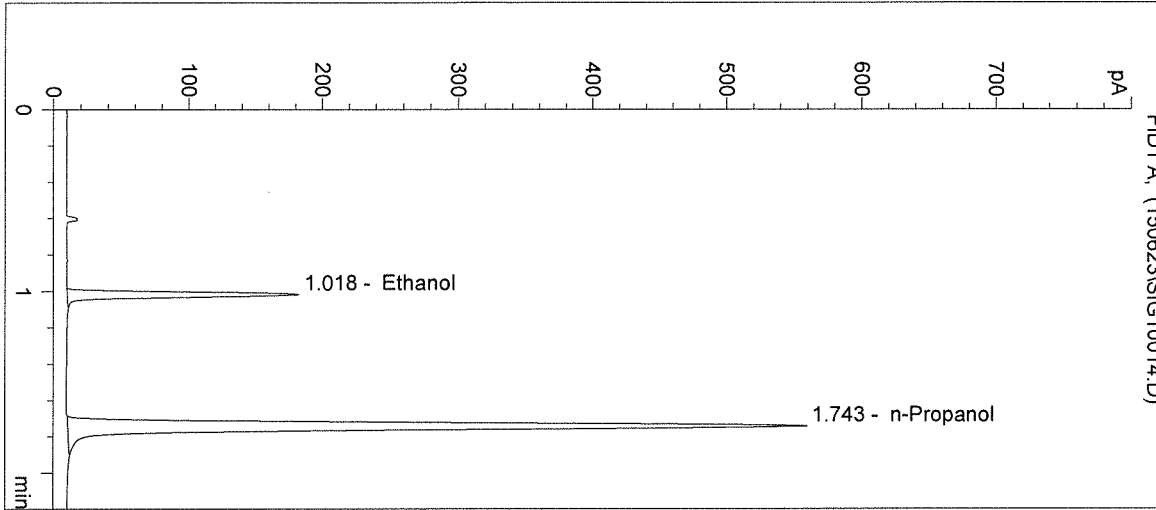
Operator: Elizabeth Wehner

Column: DB-ALC2

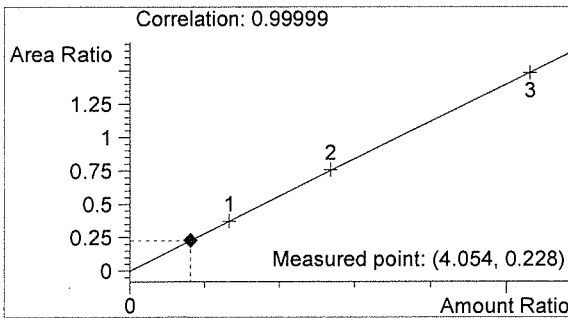
Location: Vial 14

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

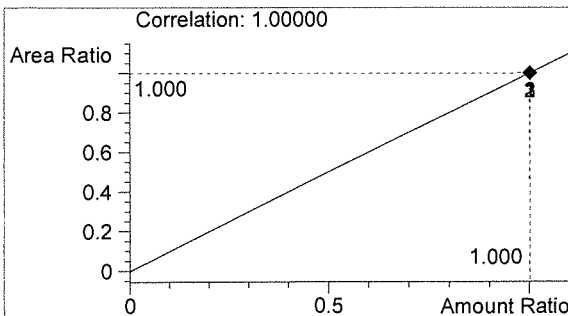
Sample Info:



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 332 | 1.018 |
| 2 | n-Propanol | 1458 | 1.743 |



Ethanol 0.049 g/100mL



n-Propanol 0.012 g/100mL

EW

EW

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Inj. Date: 6/23/2015 2:33:15 PM

Sample Name: POS CTRL (0.10)

Instrument: HSGC#3

Operator: Elizabeth Wehner

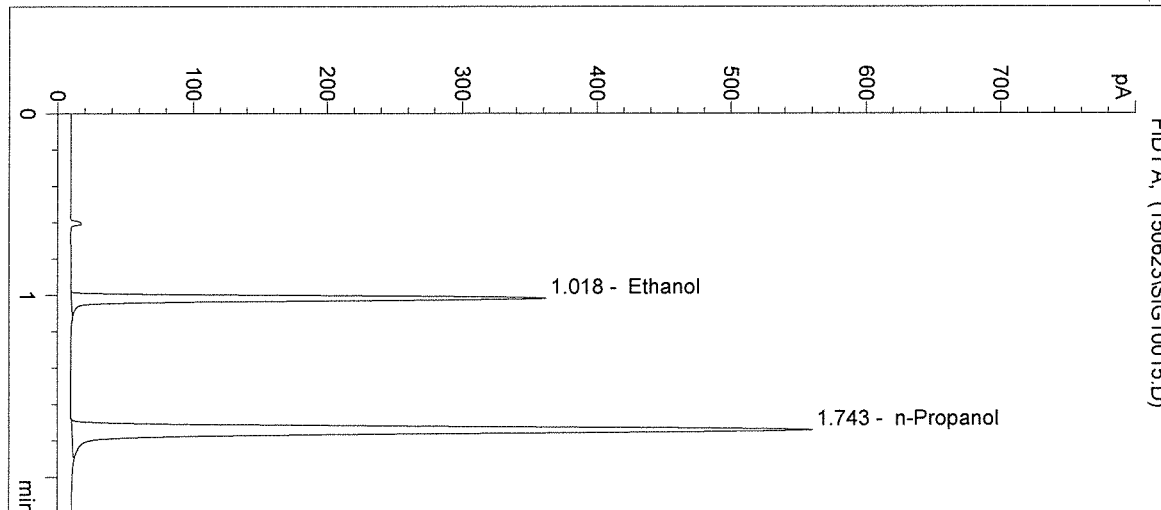
Column: DB-ALC2

Location: Vial 15

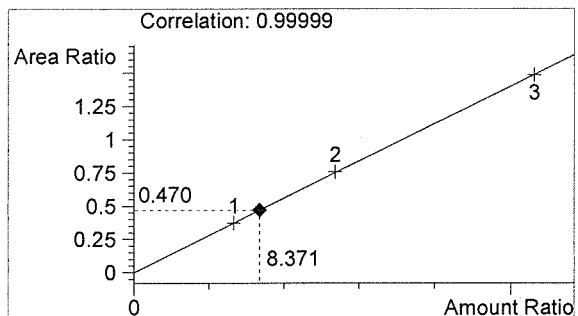
Method: C:\HPCHEM\2\METHODS\SIMALC3.M

Sample Info: POS CTRL: 0.10 g/100mL
 15028

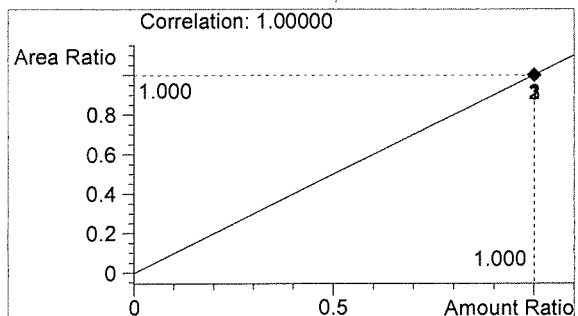
->



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 686 | 1.018 |
| 2 | n-Propanol | 1460 | 1.743 |



Ethanol 0.100 g/100mL



n-Propanol 0.012 g/100mL

EW

EW

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Inj. Date: 6/23/2015 2:36:28 PM

Sample Name: NEG CTRL

Instrument: HSGC#3

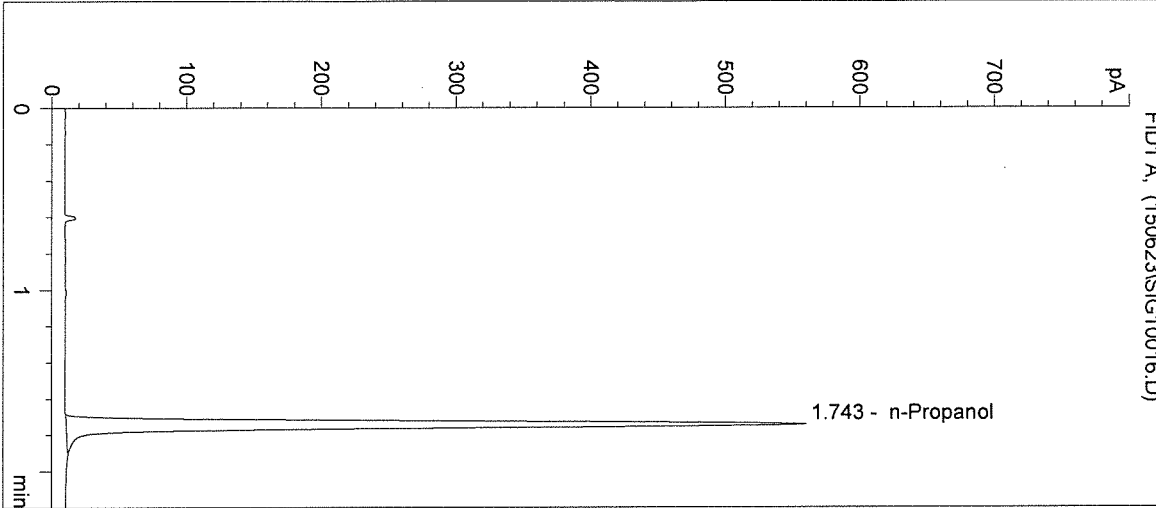
Operator: Elizabeth Wehner

Column: DB-ALC2

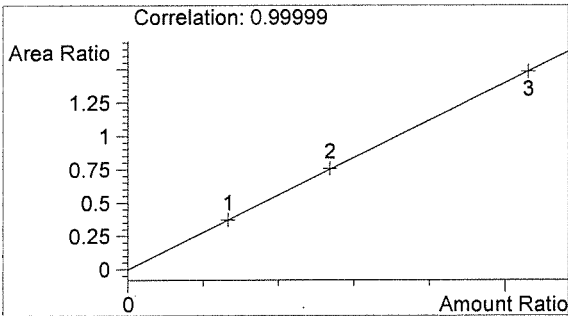
Location: Vial 16

Method: C:\HPCHEM\2\METHODS\SIMALC3.M

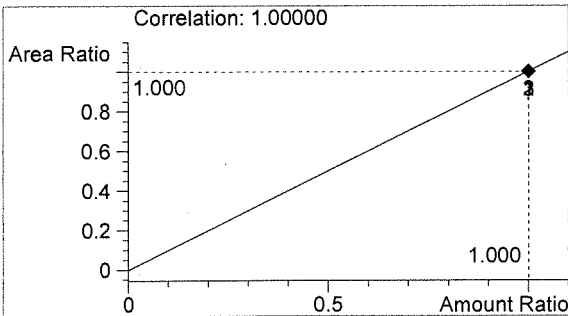
Sample Info: 15028



| # | Compound | Peak Area | RT (min) |
|---|------------|-----------|----------|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1460 | 1.743 |



Ethanol 0.000 g/100mL



n-Propanol 0.012 g/100mL

fw

EW