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



# QUALITY ASSURANCE PROCEDURE SOLUTION TEST REPORT

**BATCH REPORT: 16005**

**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: 0.15 g/210L
DATE PREPARED: 02/10/2016
BATCH UNITS: g/100mL
IDENTITY: QAP Solution
PREPARED BY: Elizabeth Wehner

| | EW | JLK | AG |
|---|---|---|---|
| 1 | 0.190 | 0.191 | 0.190 |
| 2 | 0.190 | 0.191 | 0.191 |
| 3 | 0.191 | 0.192 | 0.191 |
| 4 | 0.191 | 0.192 | 0.192 |
| 5 | 0.192 | 0.191 | 0.190 |
| C | 0.104 | 0.103 | 0.102 |

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

**RESULTS OF TESTING**
AVERAGE SOLUTION CONCENTRATION: 0.1910 g/100mL
STANDARD DEVIATION: 0.00076
PRECISION CV (%): 0.40
NUMBER OF TESTS: 15

EQUIVALENT VAPOR CONCENTRATION: **0.1553 g/210L**
EXPANDED UNCERTAINTY: ± 0.0038 (k=2, 95.45% confidence interval)

**WASHINGTON STATE PATROL – TOXICOLOGY LABORATORY DIVISION**

Lisa Noble Forensic Scientist Supervisor — 3/18/16 DATE REPORT ISSUED

THIS TESTING WAS PERFORMED BY:

| ANALYST | NAME | SIGNATURE | DATE TESTED |
|---|---|---|---|
| EW | Elizabeth Wehner | | 02/10/2016 |
| JLK | Justin L. Knoy | | 02/11/2016 |
| AG | Andrew Gingras | | 02/12/2016 |

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

**QAP Solution Batch #:** 16005 **Date Prepared:** 2/10/2016

| | Analyst: | Date Tested: | Instrument: |
|---|---|---|---|
| | EW | 2/10/2016 | HSGC #3 |
| | JLK | 2/11/2016 | HSGC #3 |
| | AG | 2/12/2016 | HSGC #3 |
| 1 | 0.190 | 0.191 | 0.190 |
| 2 | 0.190 | 0.191 | 0.191 |
| 3 | 0.191 | 0.192 | 0.191 |
| 4 | 0.191 | 0.192 | 0.192 |
| 5 | 0.192 | 0.191 | 0.190 |
| C | 0.104 | 0.103 | 0.102 |

| $CV^2_{COA}$ | $CV^2_{QAP\ Solution}$ | $CV^2_{Control}$ | $CV^2_{Part\ Coef}$ |
|---|---|---|---|
| 0.0000084100 | 0.0000010442 | 0.0000314199 | 0.0001016326 |

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

Average Solution Concentration: 0.1910 g/100mL
Standard Deviation: 0.00076 g/100mL
Precision CV (%): 0.40
Equivalent Vapor Concentration: 0.1553 g/210L
Combined Standard Uncertainty (±): 0.0019 g/210L
Expanded Uncertainty (±): 0.0038 coverage factor (k) =2 (95.45% level of confidence)

Calculations performed by: Lisa Noble (Name) Lisa Noble (Signature) 3/7/16 (Date)

Calculations verified by: Amanda M. Black (Name) (Signature) 3-17-16 (Date) Method: Hand Calculation

Tech. review performed by: Lisa Noble (Name) Lisa Noble (Signature) 3/7/16 (Date)

Washington State Patrol Toxicology Laboratory Division

# SIMULATOR SOLUTION DATA ENTRY REVIEW

Reviewer/s: Amanda M. Black Date: 3-17-16

Location: WSP-FLSB Seattle, WA Solution Batch Number: 16005

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

Comments:

Reviewer Signature: [signature] Date: 3-17-16

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** | | |
| **Andrew Gingras** | AG | 3/10/16 |
| **Asa Louis** | | |
| **Brittany Thomas** | | |
| **Christie Mitchell-Mata** | | |
| **Christopher Johnston** | | |
| **David Nguyen** | | |
| **Dawn Sklerov** | | |
| **Elizabeth Wehner** | EW | 03/09/16 |
| **Justin Knoy** | JK | 3.10.16 |
| **Katie Harris** | | |
| **Lyndsey Lowe** | | |
| **Naziha Nuwayhid** | | |
| **Rebecca Flaherty** | | |

Batch # 16005 Fn 3/7/16

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*

# 0.15 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 16005

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 16005, was prepared in the Washington State Toxicology Laboratory on 2/10/2016. 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 2/10/2017.

Seattle, WA

Elizabeth Wehner 03/09/16

Elizabeth Wehner Date

Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

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WASHINGTON STATE PATROL
WASHINGTON STATE TOXICOLOGY LABORATORY
*2203 Airport Way South, Suite 360 • Seattle, Washington 98134-2027 • (206) 262-6100 • FAX (206) 262-6145*

# 0.15 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 16005

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 16005, was prepared in the Washington State Toxicology Laboratory on 2/10/2016. 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 2/10/2017.

Seattle, WA

Justin L. Knoy 3.10.16

Justin L. Knoy Date
Forensic Scientist

JAY INSLEE
Governor

JOHN R. BATISTE
Chief

STATE OF WASHINGTON
WASHINGTON STATE PATROL
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# 0.15 g/210 L QUALITY ASSURANCE PROCEDURE SOLUTION CERTIFICATION FOR LOT 16005

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

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

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

The quality assurance procedure (QAP) solution, Lot Number 16005, was prepared in the Washington State Toxicology Laboratory on 2/10/2016. 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 2/10/2017.

Seattle, WA

3/10/2016

Andrew Gingras 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: 02/10/16 Expiration Date: 02/10/17 Initials of Preparer: EW

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

Date the 200-proof Ethanol bottle was opened: 11/13/15

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 | ☑ | 16002 |
| QAP 0.08 | 22.4 | 18 | ☑ | 16003 |
| QAP 0.10 | 28.1 | 18 | ☑ | 16004 |
| QAP 0.15 | 42.1 | 18 | ☑ | 16005 |
| 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 ☑ 02/10/16 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:

Elizabeth Wehner
Analyst Signature

02/10/16
Date

Sequence: C:\HPCHEM\2\SEQUENCE\EW-QAP.S

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: | 160210EW |
| 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#: E1015-01 Exp. 04/29/2016
CAL 2: 0.158 g/100mL - Lot#: E1015-02 Exp. 04/29/2016
CAL 3: 0.316 g/100mL - Lot#: E1015-03 Exp. 04/29/2016

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#: P0216 Exp: 05/02/2016

Calibration vials 1-9 are filed with Batch 16002.

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 | 16002 #1 | SIMALC3 | 1 | Sample | | |
| 11 | Vial 11 | 16002 #2 | SIMALC3 | 1 | Sample | | |
| 12 | Vial 12 | 16002 #3 | SIMALC3 | 1 | Sample | | |
| 13 | Vial 13 | 16002 #4 | SIMALC3 | 1 | Sample | | |
| 14 | Vial 14 | 16002 #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 | 16003 #1 | SIMALC3 | 1 | Sample | | |
| 18 | Vial 18 | 16003 #2 | SIMALC3 | 1 | Sample | | |
| 19 | Vial 19 | 16003 #3 | SIMALC3 | 1 | Sample | | |
| 20 | Vial 20 | 16003 #4 | SIMALC3 | 1 | Sample | | |
| 21 | Vial 21 | 16003 #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 | 16004 #1 | SIMALC3 | 1 | Sample | | |

16005
2/17/16

EW

Sequence: C:\HPCHEM\2\SEQUENCE\EW-QAP.S

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 25 | Vial 25 | 16004 #2 | SIMALC3 | 1 | Sample | | |
| 26 | Vial 26 | 16004 #3 | SIMALC3 | 1 | Sample | | |
| 27 | Vial 27 | 16004 #4 | SIMALC3 | 1 | Sample | | |
| 28 | Vial 28 | 16004 #5 | SIMALC3 | 1 | Sample | | |
| 29 | Vial 29 | POS CTRL (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 31 | Vial 31 | 16005 #1 | SIMALC3 | 1 | Sample | | |
| 32 | Vial 32 | 16005 #2 | SIMALC3 | 1 | Sample | | |
| 33 | Vial 33 | 16005 #3 | SIMALC3 | 1 | Sample | | |
| 34 | Vial 34 | 16005 #4 | SIMALC3 | 1 | Sample | | |
| 35 | Vial 35 | 16005 #5 | SIMALC3 | 1 | Sample | | |
| 36 | Vial 36 | POS CTRL (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 37 | Vial 37 | 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!

16005

3/7/16

EW

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2203 Airport Way S Seattle, WA 98134

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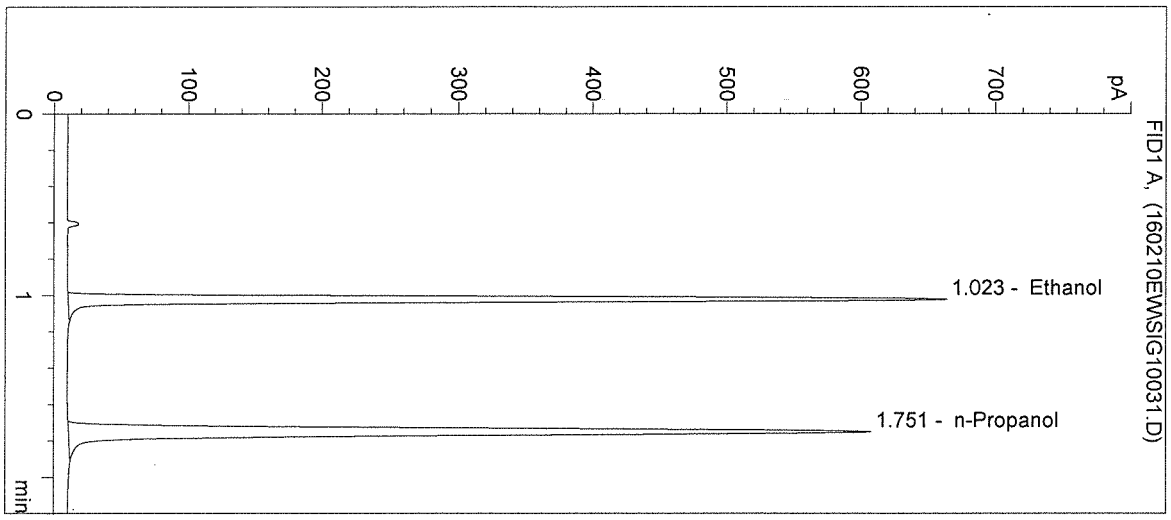
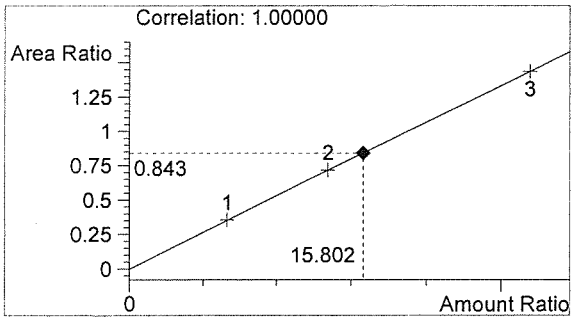
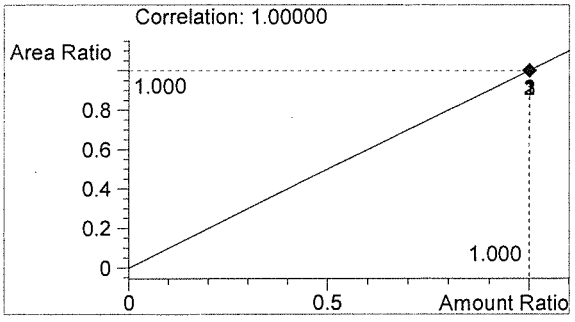
Inj. Date: 2/10/2016 11:45:15 AM  Sample Name: 16005 #1
Instrument: HSGC#3  Operator: Elizabeth Wehner
Column: DB-ALC2  Location: Vial 31
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1364 | 1.023 |
| 2 | n-Propanol | 1619 | 1.751 |




Ethanol 0.190 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\2\DATA\160210EW\SIG10031.D  Page 1 of 1

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

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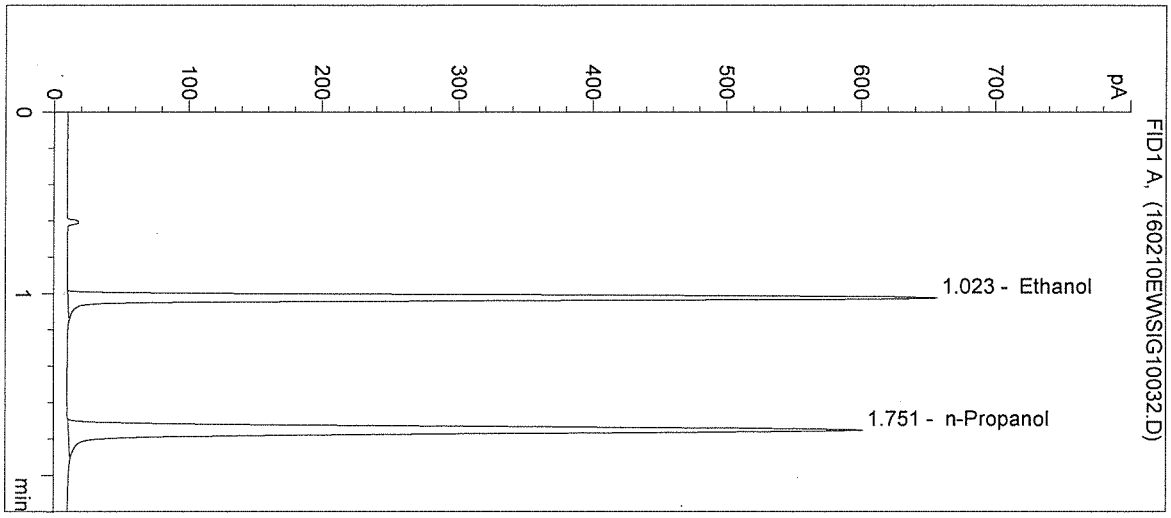
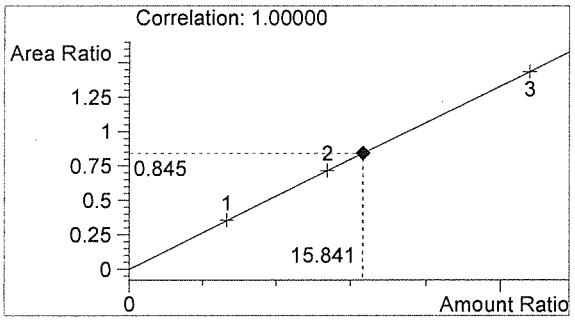
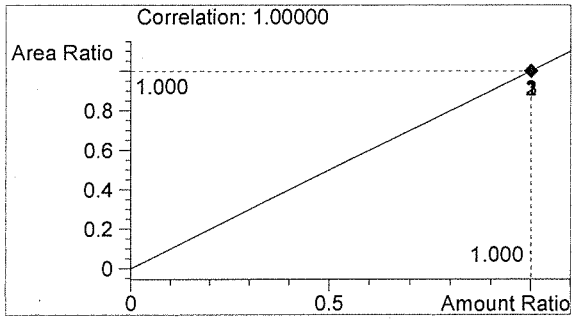
Inj. Date: 2/10/2016 11:48:28 AM  Sample Name: 16005 #2
Instrument: HSGC#3  Operator: Elizabeth Wehner
Column: DB-ALC2  Location: Vial 32
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1352 | 1.023 |
| 2 | n-Propanol | 1600 | 1.751 |




Ethanol 0.190 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\2\DATA\160210EW\SIG10032.D  Page 1 of 1

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2203 Airport Way S Seattle, WA 98134

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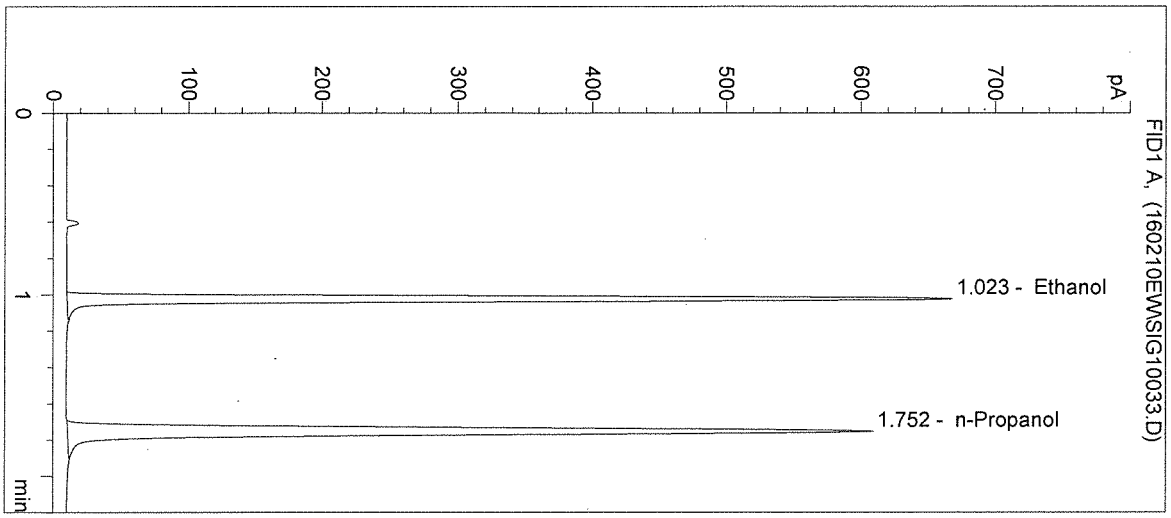
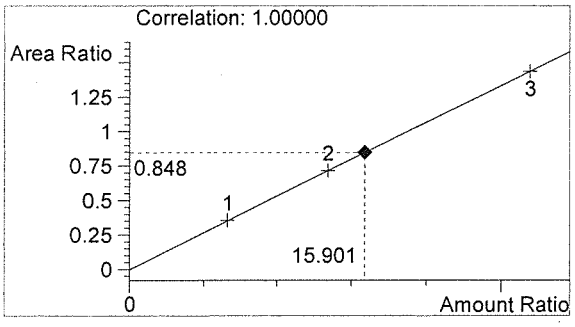
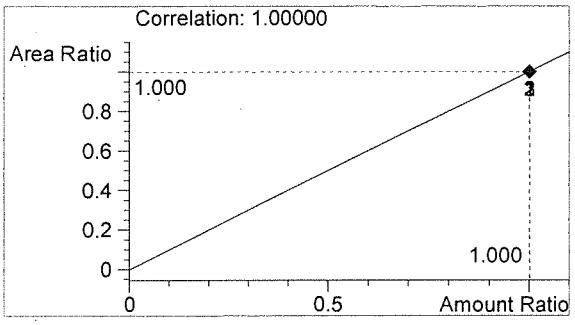
Inj. Date: 2/10/2016 11:51:42 AM  Sample Name: 16005 #3
Instrument: HSGC#3  Operator: Elizabeth Wehner
Column: DB-ALC2  Location: Vial 33
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1376 | 1.023 |
| 2 | n-Propanol | 1622 | 1.752 |




Ethanol 0.191 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\2\DATA\160210EW\SIG10033.D  Page 1 of 1

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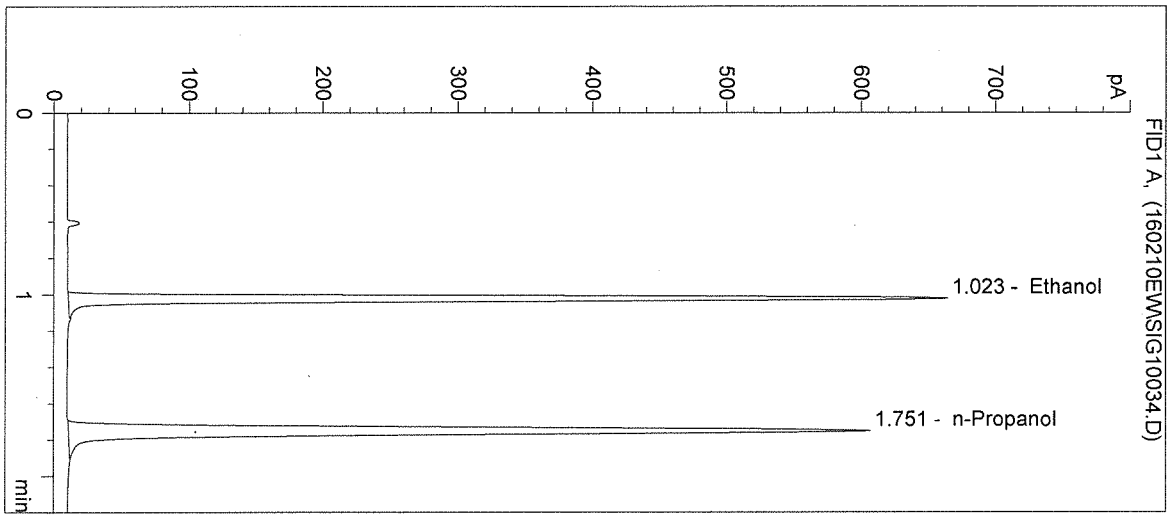
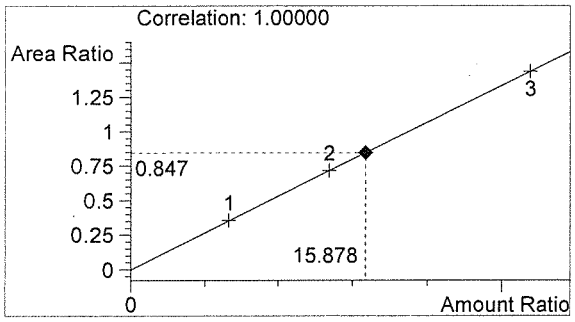
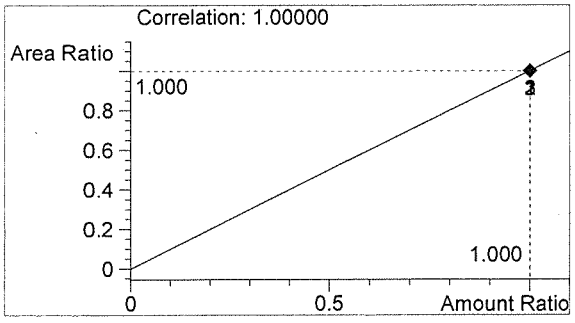
Inj. Date: 2/10/2016 11:54:54 AM  Sample Name: 16005 #4
Instrument: HSGC#3  Operator: Elizabeth Wehner
Column: DB-ALC2  Location: Vial 34
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1371 | 1.023 |
| 2 | n-Propanol | 1619 | 1.751 |




Ethanol  0.191 g/100mL




n-Propanol  0.012 g/100mL

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Data File: C:\HPCHEM\2\DATA\160210EW\SIG10034.D  Page 1 of 1

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2203 Airport Way S Seattle, WA 98134

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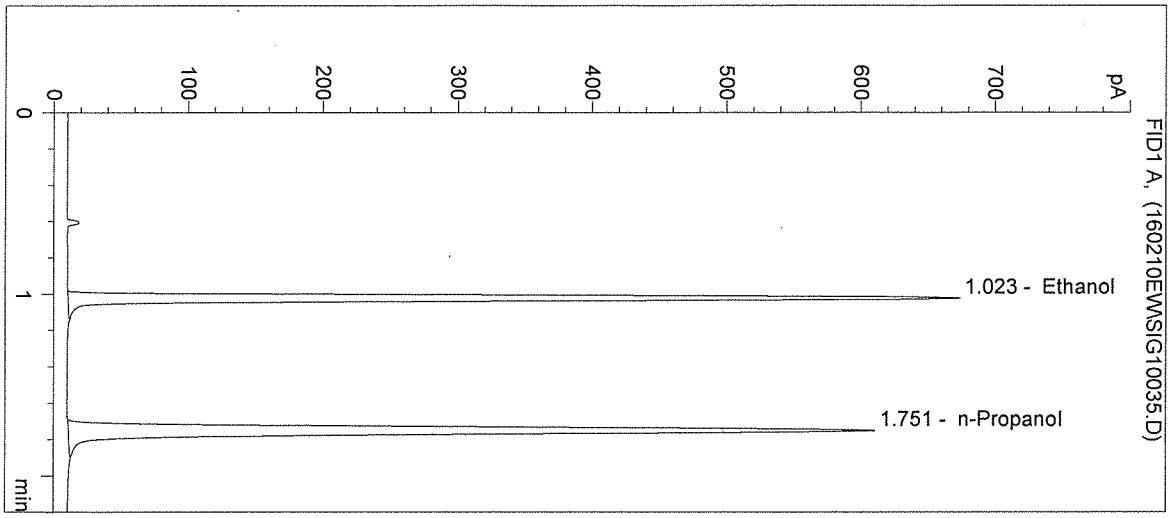
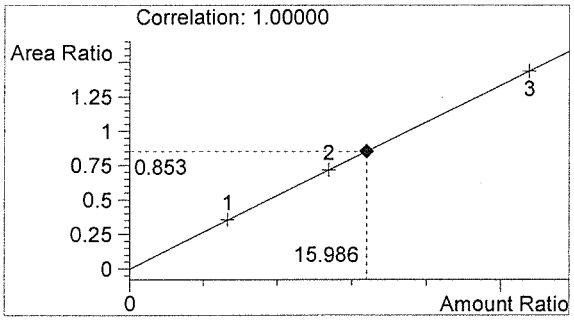
Inj. Date: 2/10/2016 11:58:08 AM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:

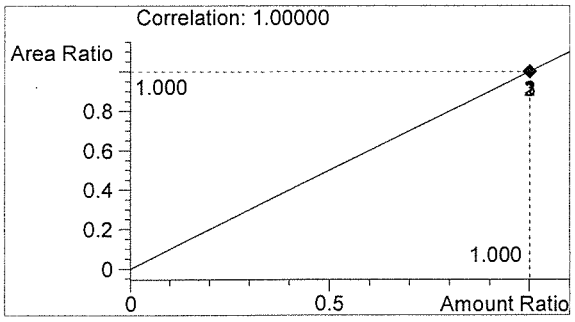
Sample Name: 16005 #5
Operator: Elizabeth Wehner
Location: Vial 35




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1386 | 1.023 |
| 2 | n-Propanol | 1626 | 1.751 |




Ethanol 0.192 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\2\DATA\160210EW\SIG10035.D



EW

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2203 Airport Way S Seattle, WA 98134

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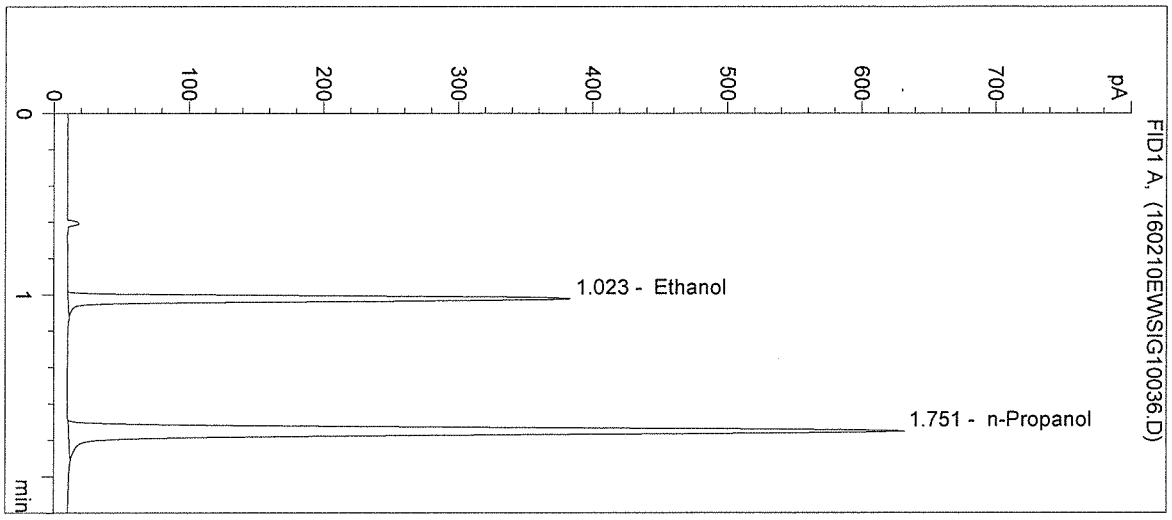
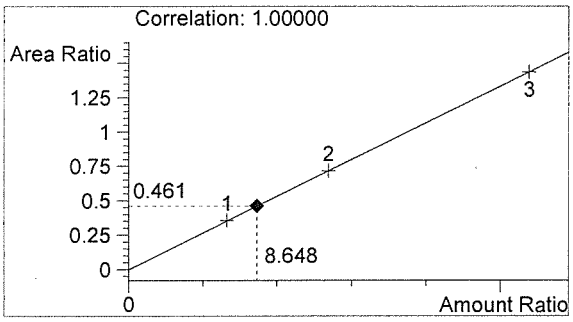
Inj. Date: 2/10/2016 12:01:22 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: POS CTRL: 0.10 g/100mL
16005

Sample Name: POS CTRL (0.10)
Operator: Elizabeth Wehner
Location: Vial 36

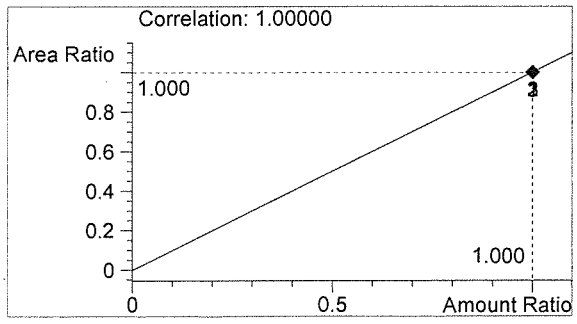
->




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 780 | 1.023 |
| 2 | n-Propanol | 1690 | 1.751 |




Ethanol 0.104 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\2\DATA\160210EW\SIG10036.D

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

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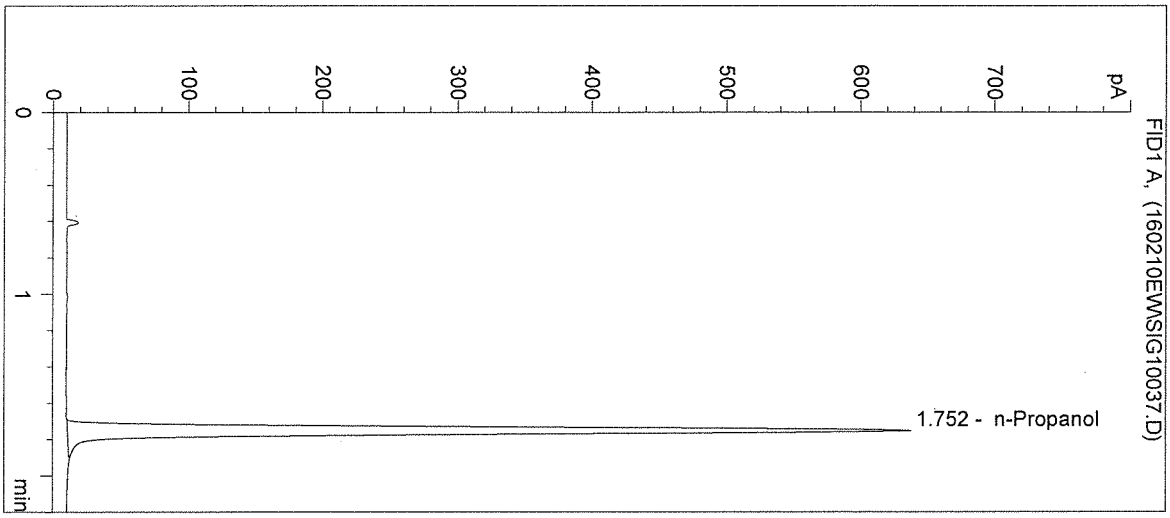
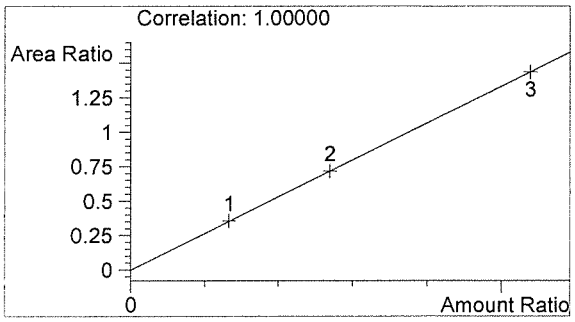
Inj. Date: 2/10/2016 12:04:36 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 16005

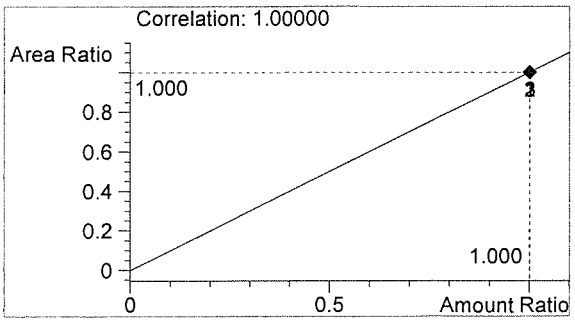
Sample Name: NEG CTRL
Operator: Elizabeth Wehner
Location: Vial 37




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1703 | 1.752 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\2\DATA\160210EW\SIG10037.D



EW

Sequence: C:\HPCHEM\2\SEQUENCE\JKQARUN3.S

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: | 160211JK |
| Part of Methods to run: | According to Runtime Checklist |
| Barcode Reader: | not used |
| Shutdown Cmd/Macro: | none |

Sequence Comment:
Ethanol Calibrator 1, E1015-01 - Exp. 04/29/2016
Ethanol Calibrator 2, E1015-02 - Exp. 04/29/2016
Ethanol Calibrator 3, E1015-03 - Exp. 04/29/2016
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#P0216 - Exp. 05/02/2016

Calibration vials 1-9 filed with 16002.

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 | 16002-1 | SIMALC3 | 1 | Sample | | |
| 11 | Vial 11 | 16002-2 | SIMALC3 | 1 | Sample | | |
| 12 | Vial 12 | 16002-3 | SIMALC3 | 1 | Sample | | |
| 13 | Vial 13 | 16002-4 | SIMALC3 | 1 | Sample | | |
| 14 | Vial 14 | 16002-5 | 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 | 16003-1 | SIMALC3 | 1 | Sample | | |
| 18 | Vial 18 | 16003-2 | SIMALC3 | 1 | Sample | | |
| 19 | Vial 19 | 16003-3 | SIMALC3 | 1 | Sample | | |
| 20 | Vial 20 | 16003-4 | SIMALC3 | 1 | Sample | | |
| 21 | Vial 21 | 16003-5 | 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 | 16004-1 | SIMALC3 | 1 | Sample | | |
| 25 | Vial 25 | 16004-2 | SIMALC3 | 1 | Sample | | |

16005
2/17/16

JK

Sequence: C:\HPCHEM\2\SEQUENCE\JKQARUN3.S

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 26 | Vial 26 | 16004-3 | SIMALC3 | 1 | Sample | | |
| 27 | Vial 27 | 16004-4 | SIMALC3 | 1 | Sample | | |
| 28 | Vial 28 | 16004-5 | SIMALC3 | 1 | Sample | | |
| 29 | Vial 29 | CTRL2 (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 31 | Vial 31 | 16005-1 | SIMALC3 | 1 | Sample | | |
| 32 | Vial 32 | 16005-2 | SIMALC3 | 1 | Sample | | |
| 33 | Vial 33 | 16005-3 | SIMALC3 | 1 | Sample | | |
| 34 | Vial 34 | 16005-4 | SIMALC3 | 1 | Sample | | |
| 35 | Vial 35 | 16005-5 | SIMALC3 | 1 | Sample | | |
| 36 | Vial 36 | CTRL2 (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 37 | Vial 37 | 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!

16005

2/17/16

JK

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

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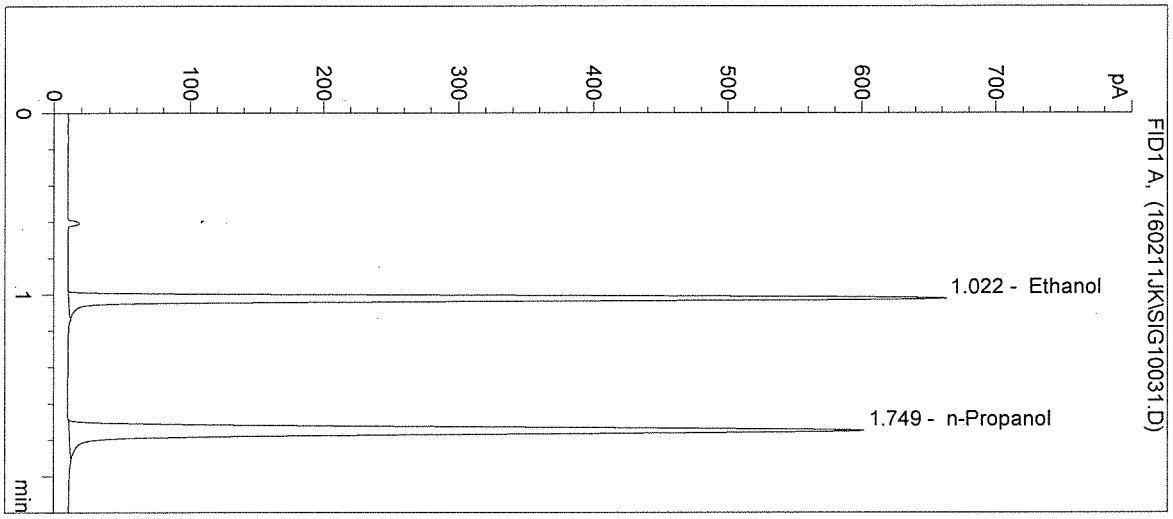
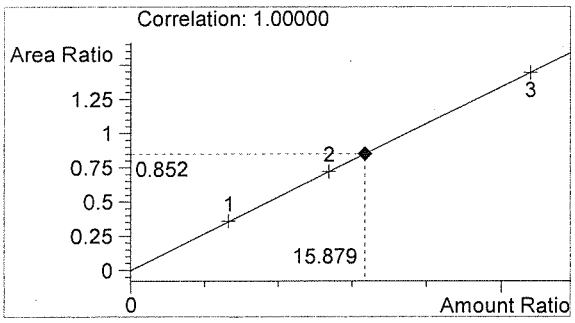
Inj. Date: 2/11/2016 5:43:48 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:

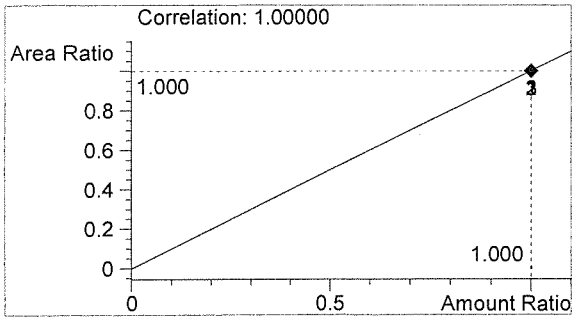
Sample Name: 16005-1
Operator: Justin Knoy
Location: Vial 31




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1365 | 1.022 |
| 2 | n-Propanol | 1603 | 1.749 |




Ethanol 0.191 g/100mL




n-Propanol 0.012 g/100mL

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

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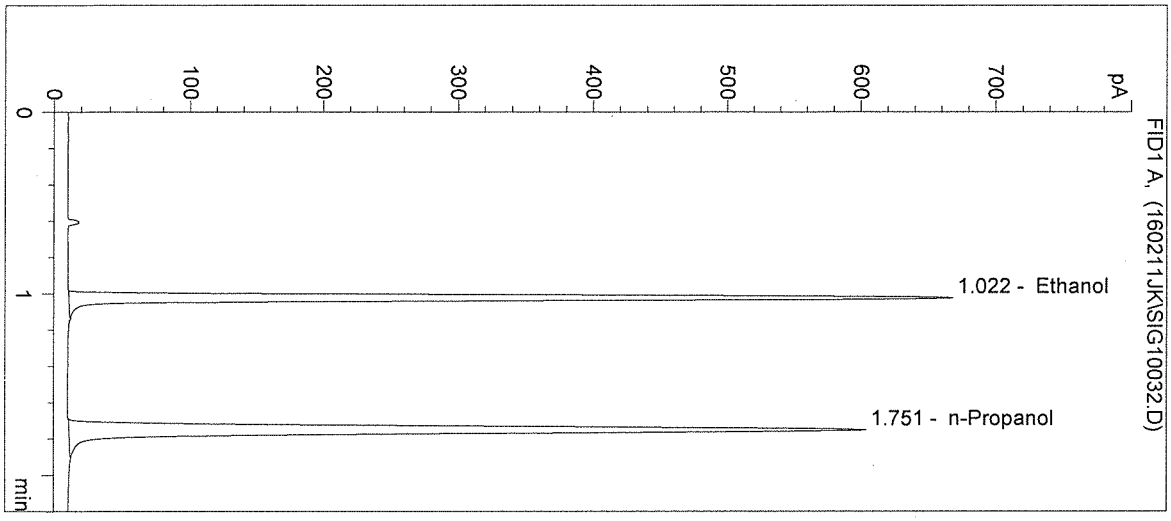
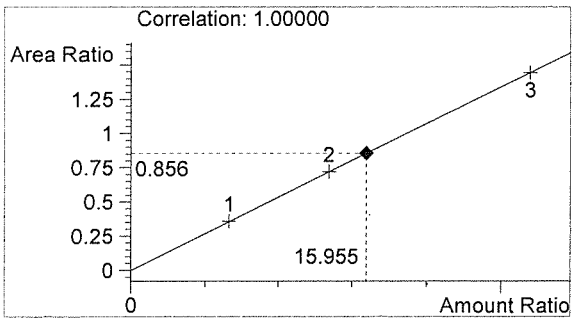
Inj. Date: 2/11/2016 5:47:01 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:

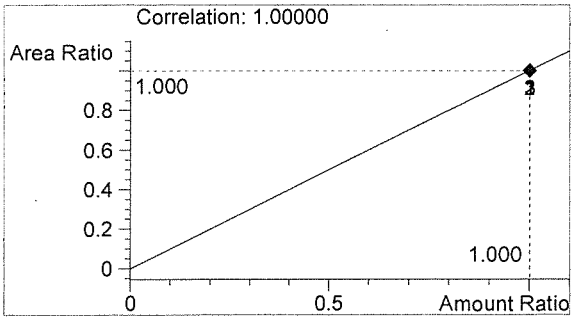
Sample Name: 16005-2
Operator: Justin Knoy
Location: Vial 32




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1379 | 1.022 |
| 2 | n-Propanol | 1611 | 1.751 |




Ethanol 0.191 g/100mL




n-Propanol 0.012 g/100mL

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JK

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

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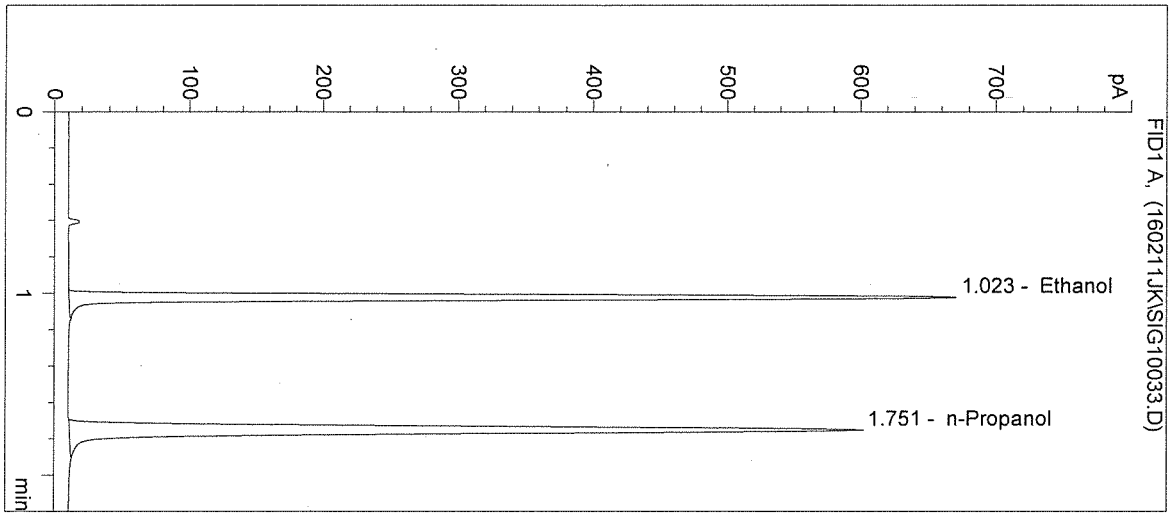
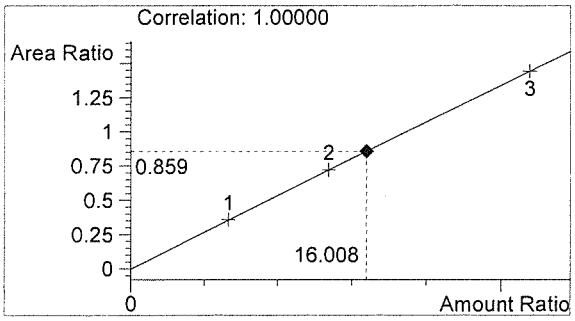
Inj. Date: 2/11/2016 5:50:14 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:

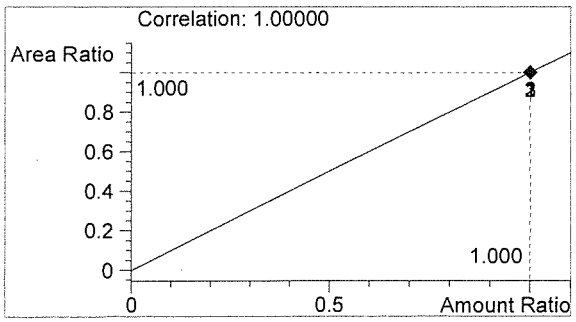
Sample Name: 16005-3
Operator: Justin Knoy
Location: Vial 33




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1379 | 1.023 |
| 2 | n-Propanol | 1606 | 1.751 |




Ethanol 0.192 g/100mL




n-Propanol 0.012 g/100mL

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

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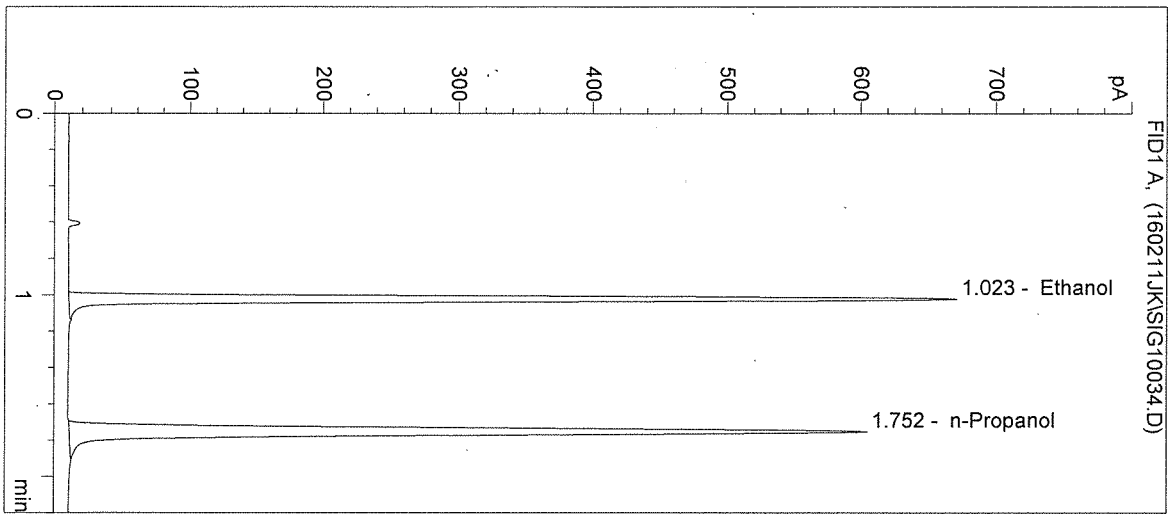
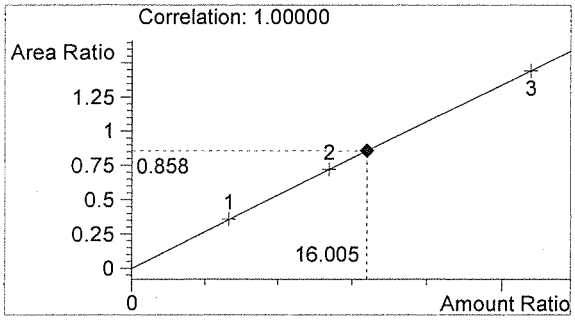
Inj. Date: 2/11/2016 5:53:27 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:

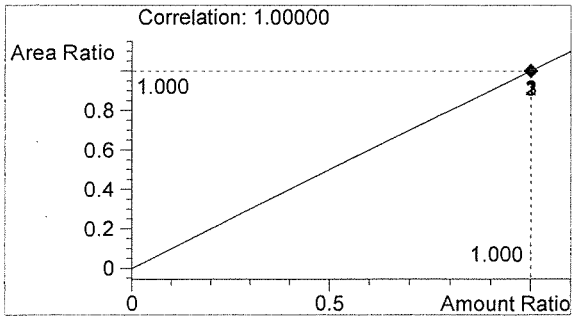
Sample Name: 16005-4
Operator: Justin Knoy
Location: Vial 34




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1385 | 1.023 |
| 2 | n-Propanol | 1613 | 1.752 |




Ethanol 0.192 g/100mL




n-Propanol 0.012 g/100mL

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Data File: C:\HPCHEM\2\DATA\160211JK\SIG10034.D

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

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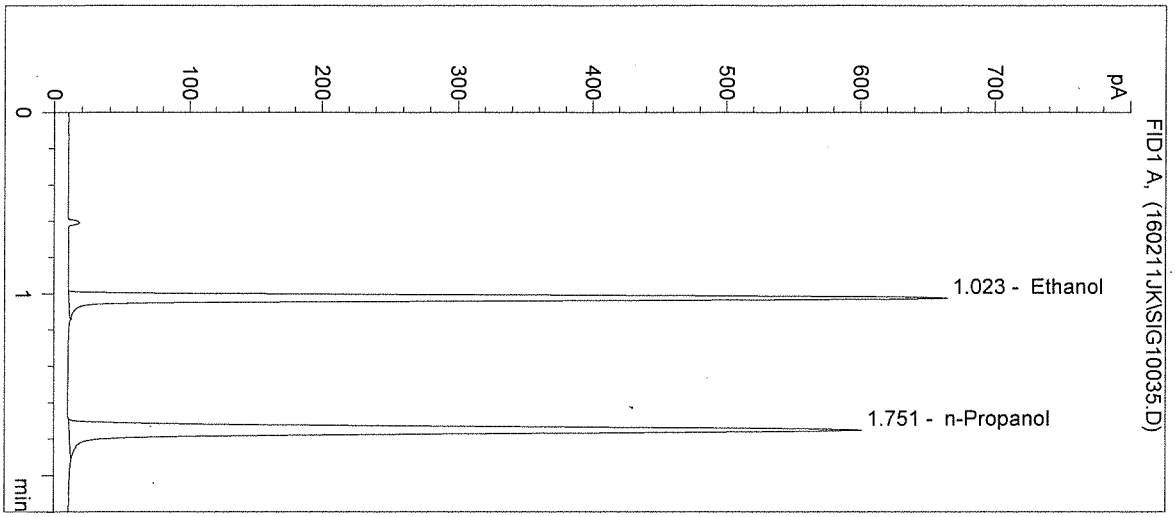
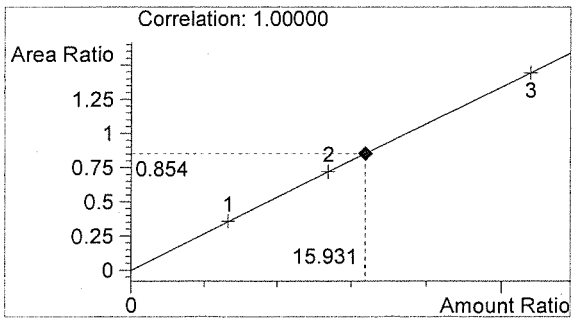
Inj. Date: 2/11/2016 5:56:41 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:

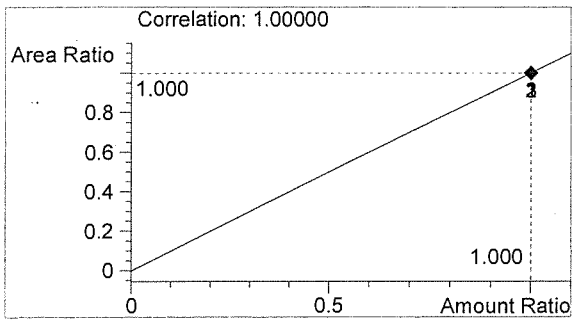
Sample Name: 16005-5
Operator: Justin Knoy
Location: Vial 35




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1368 | 1.023 |
| 2 | n-Propanol | 1601 | 1.751 |




Ethanol 0.191 g/100mL




n-Propanol 0.012 g/100mL

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

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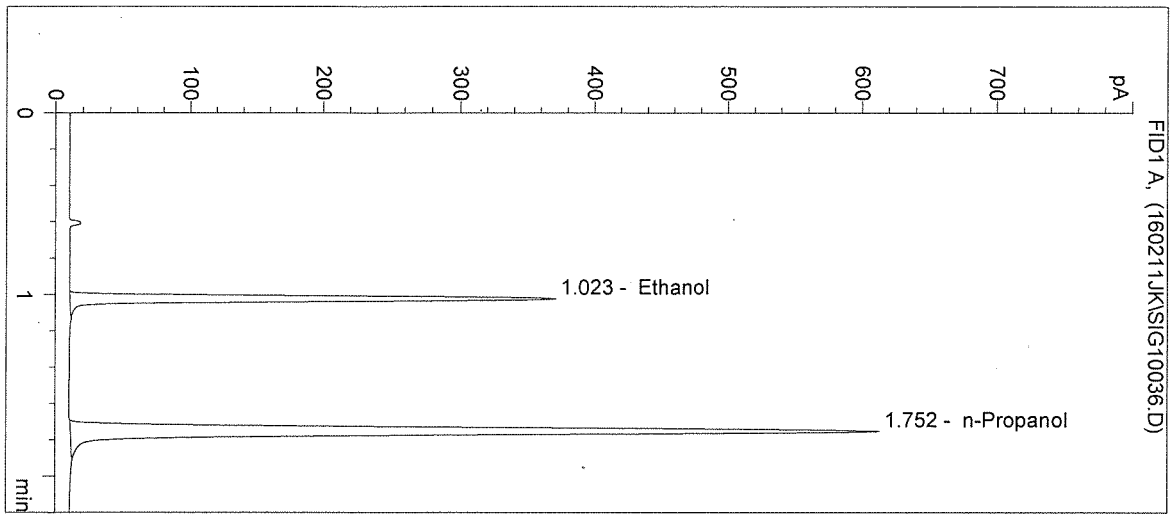
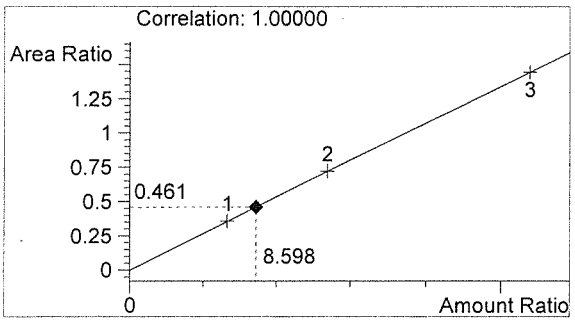
Inj. Date: 2/11/2016 5:59:55 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 0.10g/100mL ; 16005

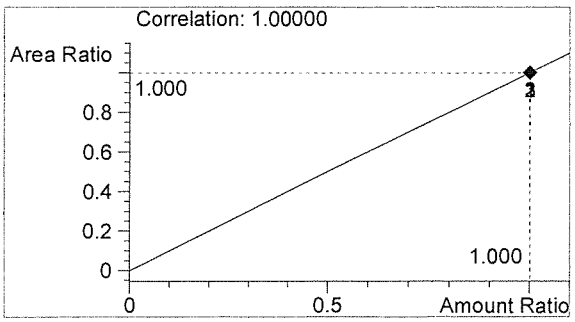
Sample Name: CTRL2 (0.10)
Operator: Justin Knoy
Location: Vial 36




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 754 | 1.023 |
| 2 | n-Propanol | 1636 | 1.752 |




Ethanol 0.103 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

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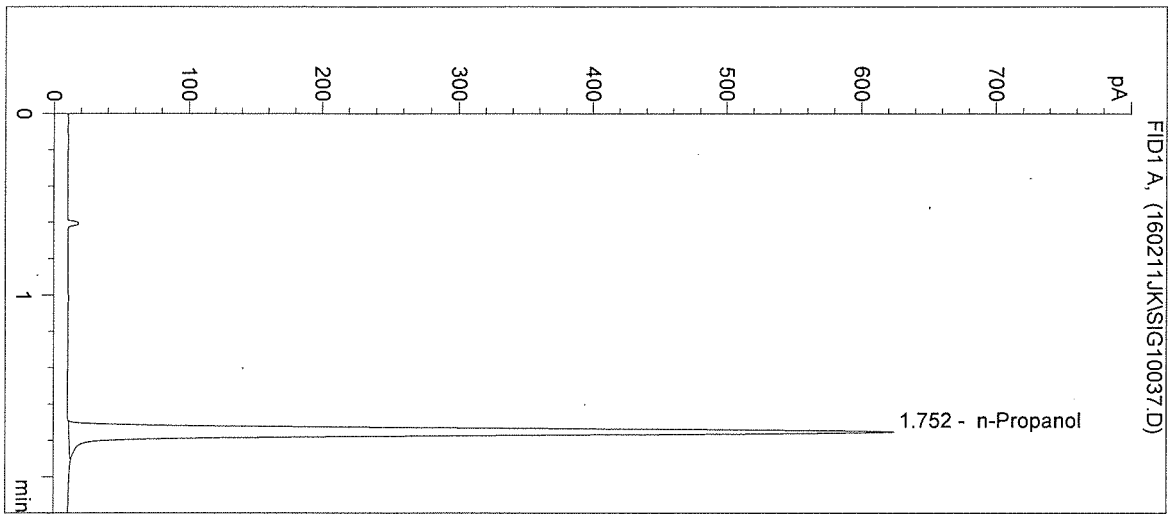
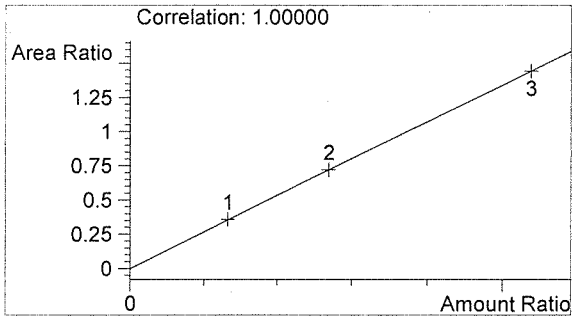
Inj. Date: 2/11/2016 6:03:09 PM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 16005

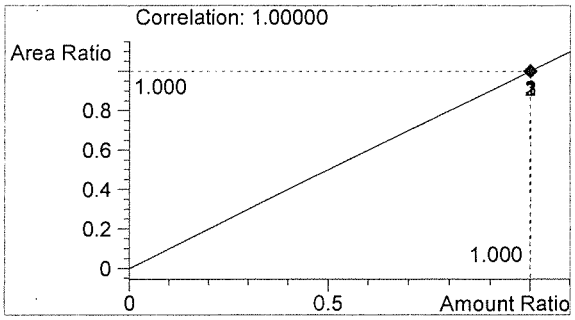
Sample Name: NEG CTRL
Operator: Justin Knoy
Location: Vial 37




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1667 | 1.752 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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Sequence: C:\HPCHEM\2\SEQUENCE\JKQARUN3.S

Sequence Parameters:

Sequence run by:

| | |
|---|---|
| Operator: | Andrew Gingras |
| 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: | 160212AG |
| Part of Methods to run: | According to Runtime Checklist |
| Barcode Reader: | not used |
| Shutdown Cmd/Macro: | none |

3/10/16

Sequence Comment:

Ethanol Calibrator 1, E1015-01 - Exp. 04/29/2016
Ethanol Calibrator 2, E1015-02 - Exp. 04/29/2016
Ethanol Calibrator 3, E1015-03 - Exp. 04/29/2016
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#P0216 - Exp. 05/02/2016

Calibration vials 1-9 filed with 16002.

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 | 16002-1 | SIMALC3 | 1 | Sample | | |
| 11 | Vial 11 | 16002-2 | SIMALC3 | 1 | Sample | | |
| 12 | Vial 12 | 16002-3 | SIMALC3 | 1 | Sample | | |
| 13 | Vial 13 | 16002-4 | SIMALC3 | 1 | Sample | | |
| 14 | Vial 14 | 16002-5 | 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 | 16003-1 | SIMALC3 | 1 | Sample | | |
| 18 | Vial 18 | 16003-2 | SIMALC3 | 1 | Sample | | |
| 19 | Vial 19 | 16003-3 | SIMALC3 | 1 | Sample | | |
| 20 | Vial 20 | 16003-4 | SIMALC3 | 1 | Sample | | |
| 21 | Vial 21 | 16003-5 | 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 | 16004-1 | SIMALC3 | 1 | Sample | | |
| 25 | Vial 25 | 16004-2 | SIMALC3 | 1 | Sample | | |

16005
3/7/16

Sequence: C:\HPCHEM\2\SEQUENCE\JKQARUN3.S

| Line | Location | SampleName | Method | Inj | SampleType | InjVolume | DataFile |
|---|---|---|---|---|---|---|---|
| 26 | Vial 26 | 16004-3 | SIMALC3 | 1 | Sample | | |
| 27 | Vial 27 | 16004-4 | SIMALC3 | 1 | Sample | | |
| 28 | Vial 28 | 16004-5 | SIMALC3 | 1 | Sample | | |
| 29 | Vial 29 | CTRL2 (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 30 | Vial 30 | NEG CTRL | SIMALC3 | 1 | Ctrl Samp | | |
| 31 | Vial 31 | 16005-1 | SIMALC3 | 1 | Sample | | |
| 32 | Vial 32 | 16005-2 | SIMALC3 | 1 | Sample | | |
| 33 | Vial 33 | 16005-3 | SIMALC3 | 1 | Sample | | |
| 34 | Vial 34 | 16005-4 | SIMALC3 | 1 | Sample | | |
| 35 | Vial 35 | 16005-5 | SIMALC3 | 1 | Sample | | |
| 36 | Vial 36 | CTRL2 (0.10) | SIMALC3 | 1 | Ctrl Samp | | |
| 37 | Vial 37 | 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!

16005

2/17/16

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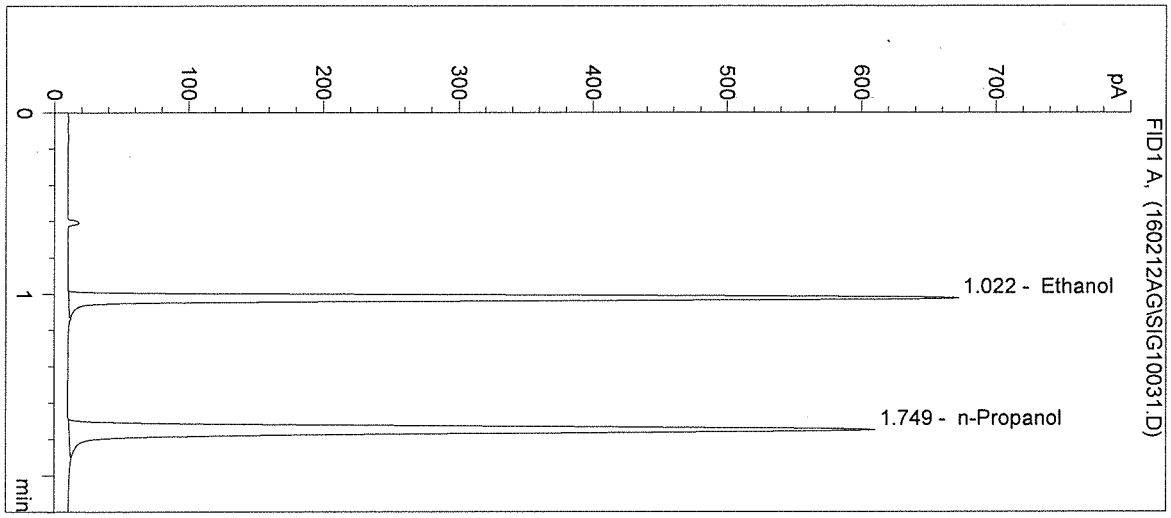
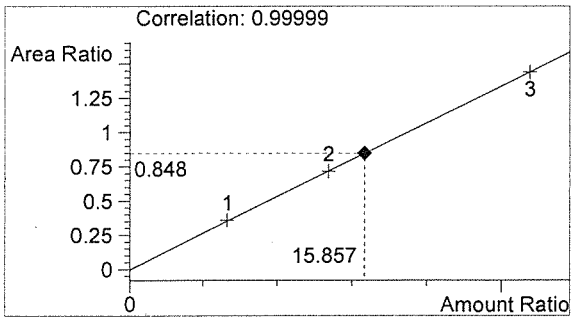
Inj. Date: 2/12/2016 9:53:33 AM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:

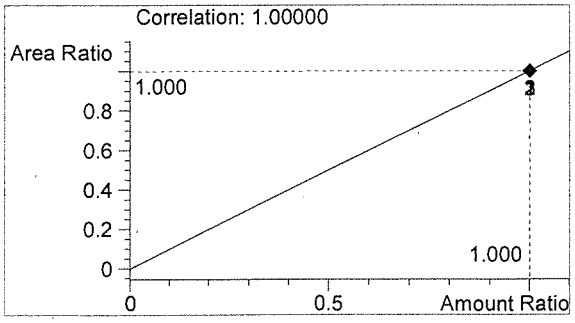
Sample Name: 16005-1
Operator: Andrew Gingras
Location: Vial 31




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1379 | 1.022 |
| 2 | n-Propanol | 1625 | 1.749 |




Ethanol 0.190 g/100mL




n-Propanol 0.012 g/100mL

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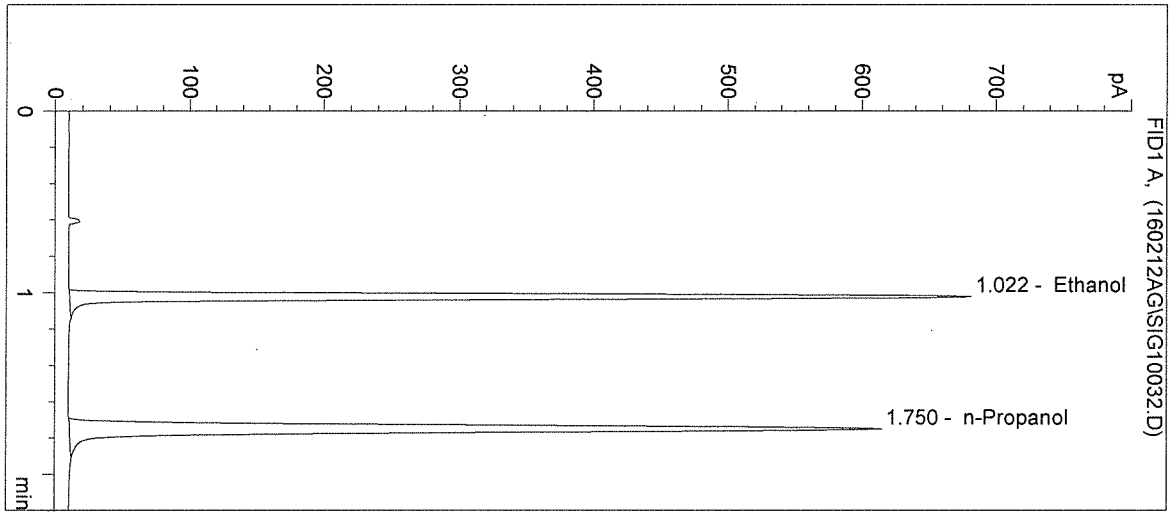
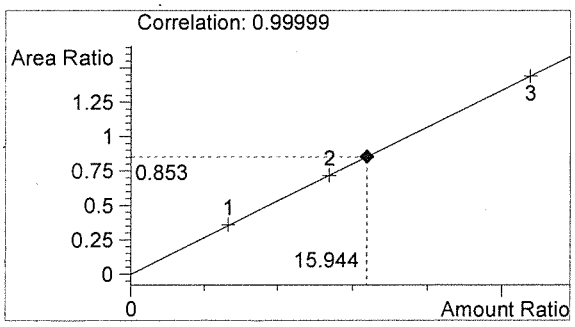
Inj. Date: 2/12/2016 9:56:45 AM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:

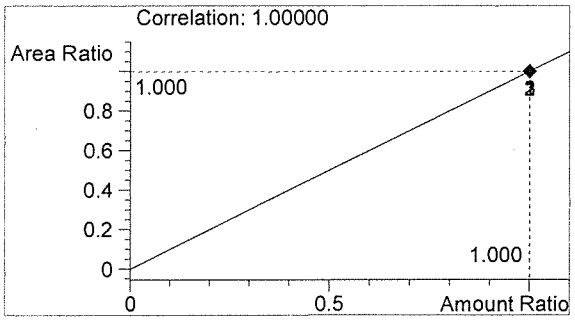
Sample Name: 16005-2
Operator: Andrew Gingras
Location: Vial 32




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1402 | 1.022 |
| 2 | n-Propanol | 1643 | 1.750 |




Ethanol 0.191 g/100mL




n-Propanol 0.012 g/100mL

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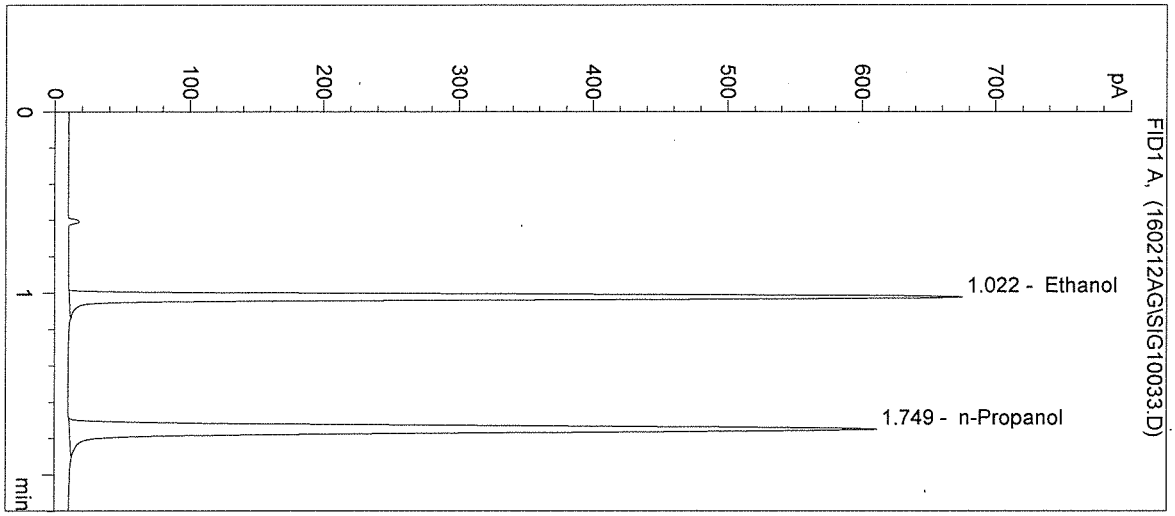
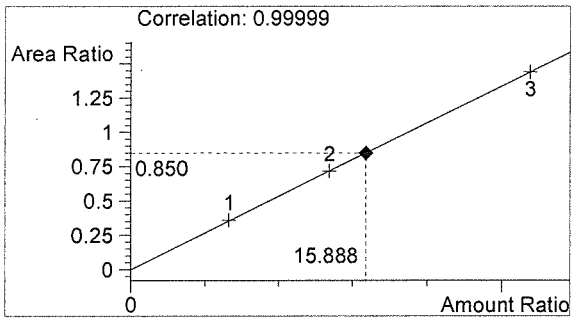
Inj. Date: 2/12/2016 9:59:59 AM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:

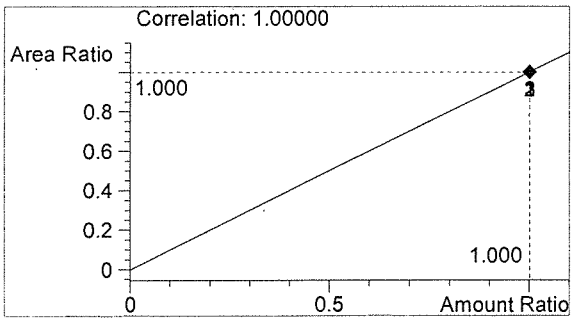
Sample Name: 16005-3
Operator: Andrew Gingras
Location: Vial 33




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1388 | 1.022 |
| 2 | n-Propanol | 1633 | 1.749 |




Ethanol 0.191 g/100mL




n-Propanol 0.012 g/100mL

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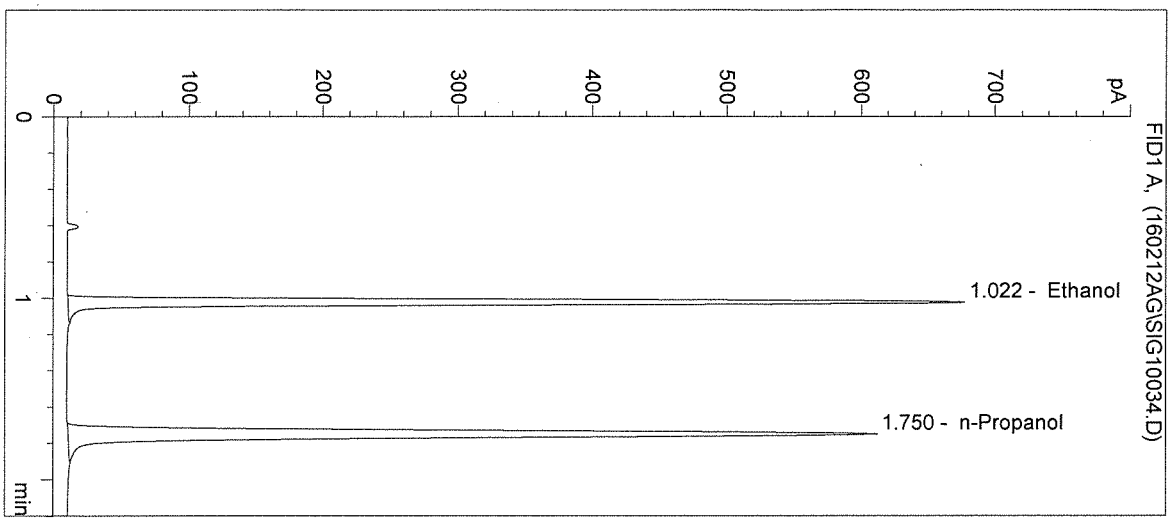
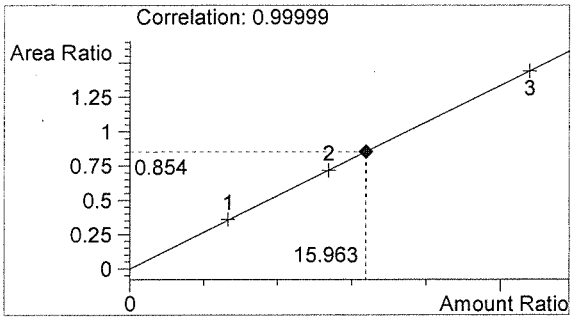
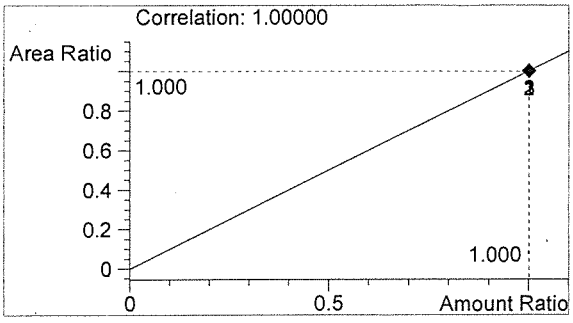
Inj. Date: 2/12/2016 10:03:12 AM  Sample Name: 16005-4
Instrument: HSGC#3  Operator: Andrew Gingras
Column: DB-ALC2  Location: Vial 34
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1396 | 1.022 |
| 2 | n-Propanol | 1634 | 1.750 |




Ethanol 0.192 g/100mL




n-Propanol 0.012 g/100mL

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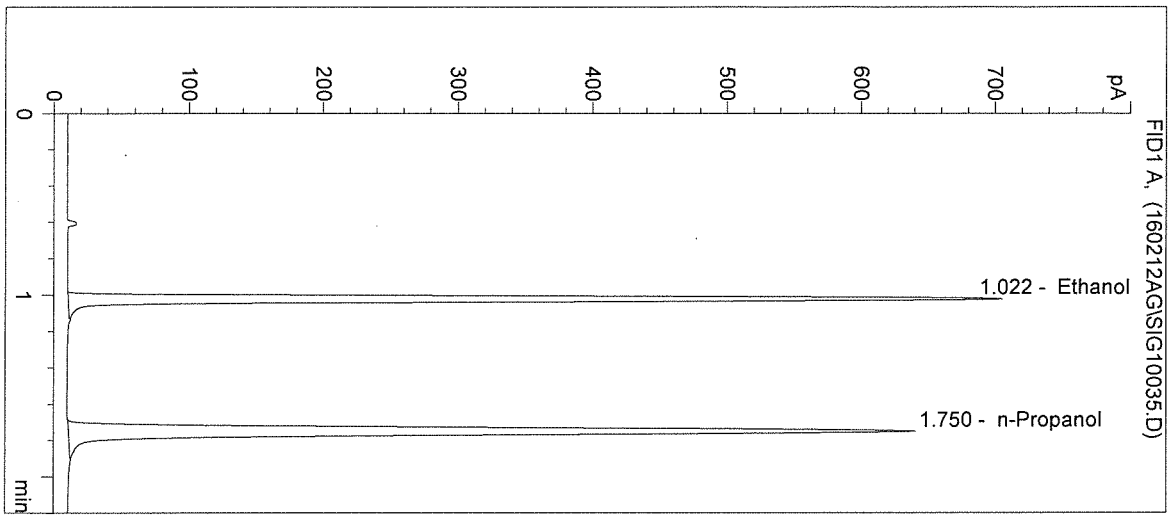
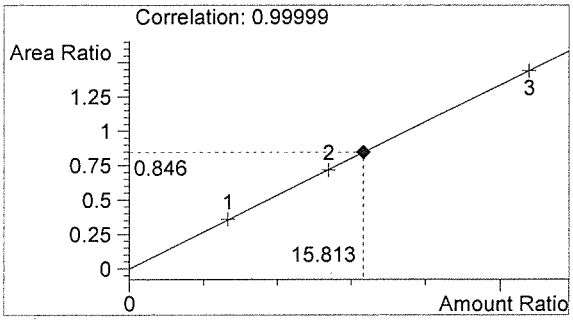
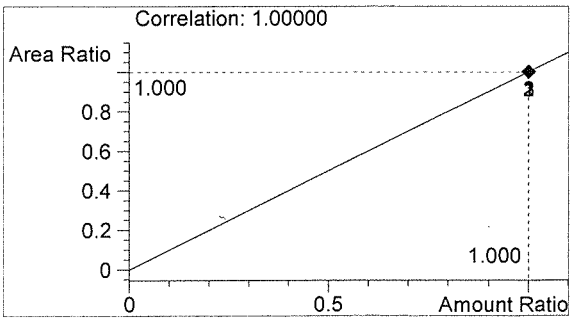
Inj. Date: 2/12/2016 10:06:26 AM  Sample Name: 16005-5
Instrument: HSGC#3  Operator: Andrew Gingras
Column: DB-ALC2  Location: Vial 35
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info:




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 1447 | 1.022 |
| 2 | n-Propanol | 1710 | 1.750 |




Ethanol 0.190 g/100mL




n-Propanol 0.012 g/100mL

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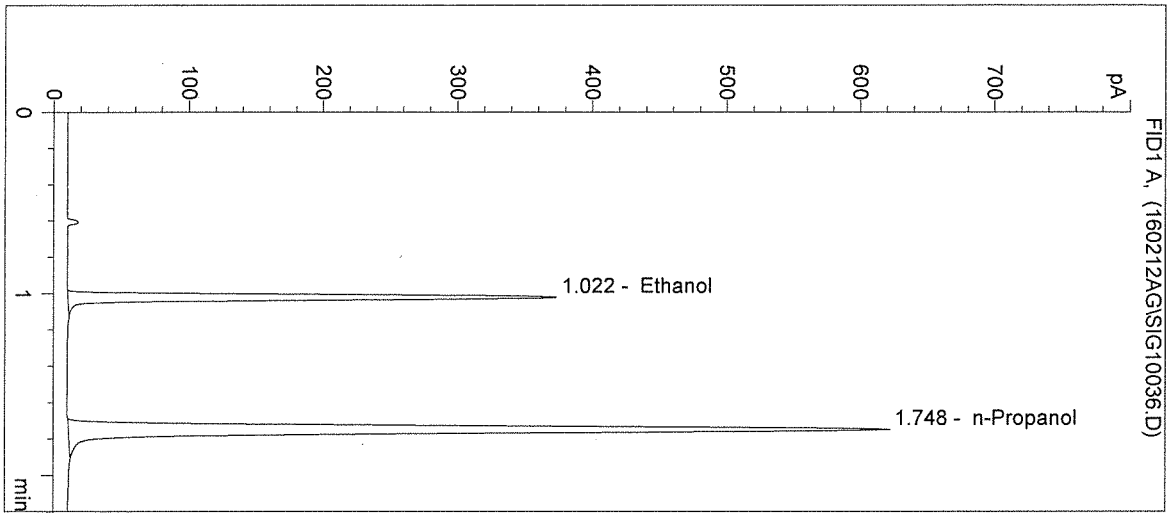
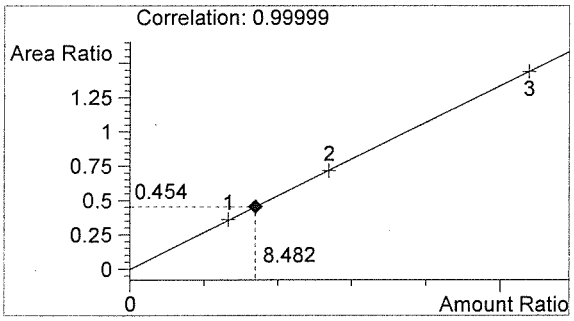
Inj. Date: 2/12/2016 10:09:39 AM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 0.10g/100mL ; 16005

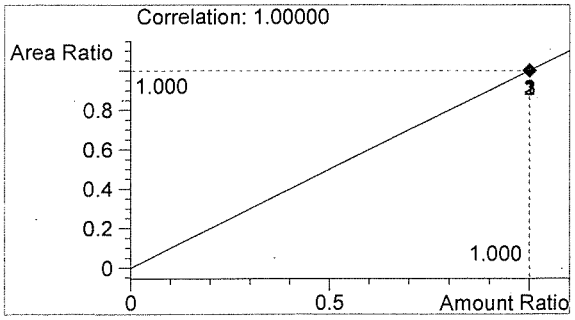
Sample Name: CTRL2 (0.10)
Operator: Andrew Gingras
Location: Vial 36




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 753 | 1.022 |
| 2 | n-Propanol | 1658 | 1.748 |




Ethanol 0.102 g/100mL




n-Propanol 0.012 g/100mL

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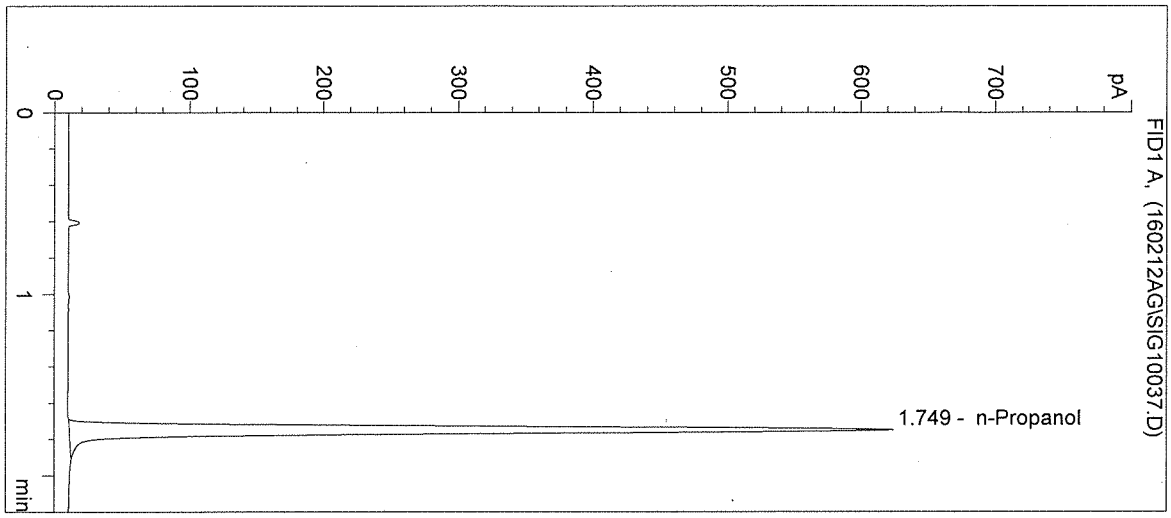
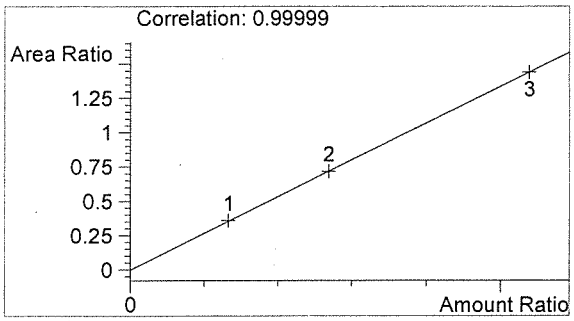
Inj. Date: 2/12/2016 10:12:54 AM
Instrument: HSGC#3
Column: DB-ALC2
Method: C:\HPCHEM\2\METHODS\SIMALC3.M
Sample Info: 16005

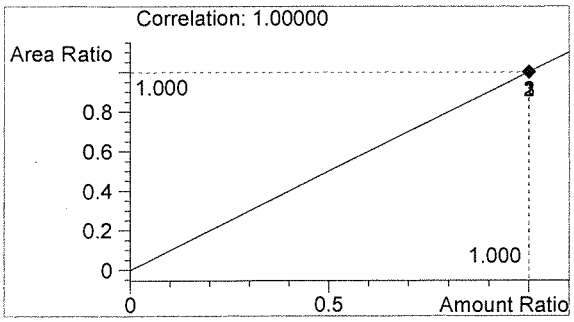
Sample Name: NEG CTRL
Operator: Andrew Gingras
Location: Vial 37




| # | Compound | Peak Area | RT (min) |
|---|---|---|---|
| 1 | Ethanol | 0 | 0.000 |
| 2 | n-Propanol | 1665 | 1.749 |




Ethanol 0.000 g/100mL




n-Propanol 0.012 g/100mL

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