

# SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 04/03/17 SEQUENCE NAME 03Apr17

### EQUIPMENT

Pipettor  Hamilton ML600EH7497  Hamilton ML600GJ10749  
 Gas Chromatograph  Agilent US14173023

### INSTRUMENT CALIBRATION

Vial 1 0.02 calibrator Lot FN03241604 Coefficient of determination ( $r^2$ )  
 Vial 2 0.10 calibrator Lot FN06181501 0.99997  
 Vial 3 0.20 calibrator Lot FN07201502  
 Vial 4 0.40 calibrator Lot FN11191402

### CALIBRATION VERIFICATION AND RESOLUTION TEST

Vial	Sample	Expected result	Measured result	Manufacturer/lot
5	Blank	Not detected	Not detected	SPD lab 012517
6	Volatiles mixture	6 compounds	6 compounds	SPD lab 020917 WLA
7	Aqueous control	0.400 g/dL	0.400 g/dL	Lipomed 08012015-C
8	Aqueous control	0.040 g/dL	0.039 g/dL	Lipomed 09022015-A
9	Blood control	0.200 g/dL	0.200 g/dL	ACQ 407041529/3
12	Aqueous control	0.400 g/dL	0.401 g/dL	Lipomed 08012015-C
13	Aqueous control	0.040 g/dL	0.039 g/dL	Lipomed 09022015-A
14	Blood control	0.200 g/dL	0.201 g/dL	ACQ 407041529/3
15	Blank	Not detected	Not detected	SPD lab 012517

### SUBJECT SAMPLES

Subjects in the sequence 1 Subjects requiring reanalysis 0

**ADDITIONAL NOTES:** All testing proceeded as expected.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Run valid  Run invalid  ROSECKI 4/3/17 Analyst  
 Run valid  Run invalid  Paines, B1466 4/3/17 Technical Reviewer

# Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

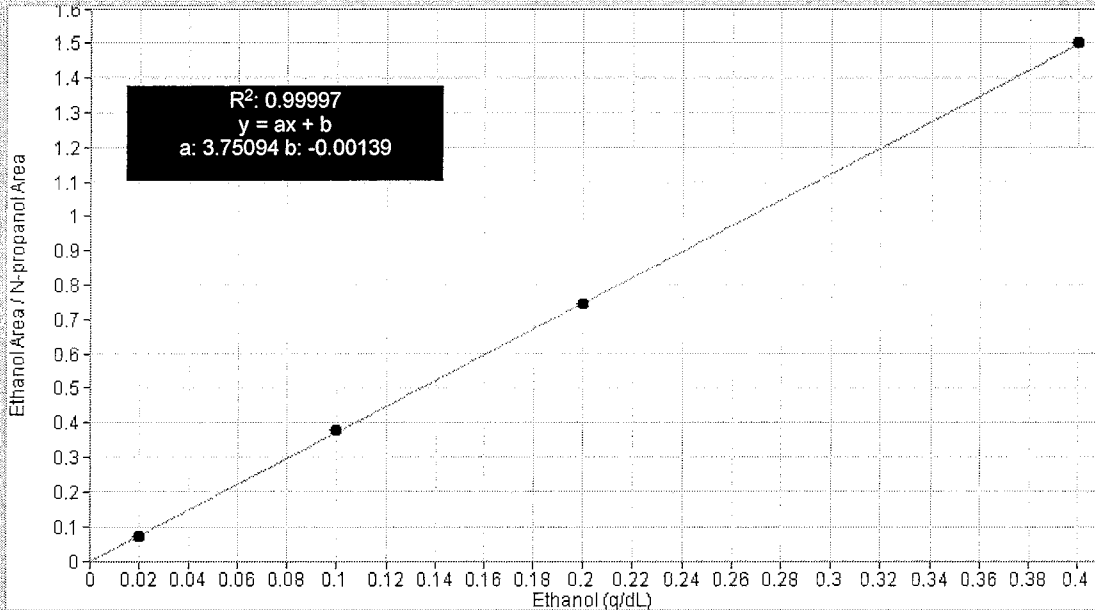
SEQUENCE NAME: 03Apr17

ANALYST: Kosecki

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 012517	5	negative	negative	-	-
0.400 Lipomed 08012015-C	7	0.400	0.400	0.00	0.000
0.040 Lipomed 09022015-A	8	0.039	0.040	2.50	-0.001
0.20 ACQ 407041529/3	9	0.200	0.200	0.00	0.000
0.40 Lipomed 08012015-C	12	0.401	0.400	0.25	0.001
0.04 Lipomed 09022015-A	13	0.039	0.040	2.50	-0.001
0.20 ACQ 407041529/3	14	0.201	0.200	0.50	0.001
blank 012517	15	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	11.046	152.171	0.073
0.100	60.257	159.533	0.378
0.200	113.108	151.870	0.745
0.400	225.036	150.019	1.500

**Calibration Line**



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.020 Cerilliant FN03241604	Item number:
Injection date: 4/3/2017 10:39:17 AM	Vial: 1
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki AK
Data file: C:\Chem32\1\Data\03Apr17\1.D	

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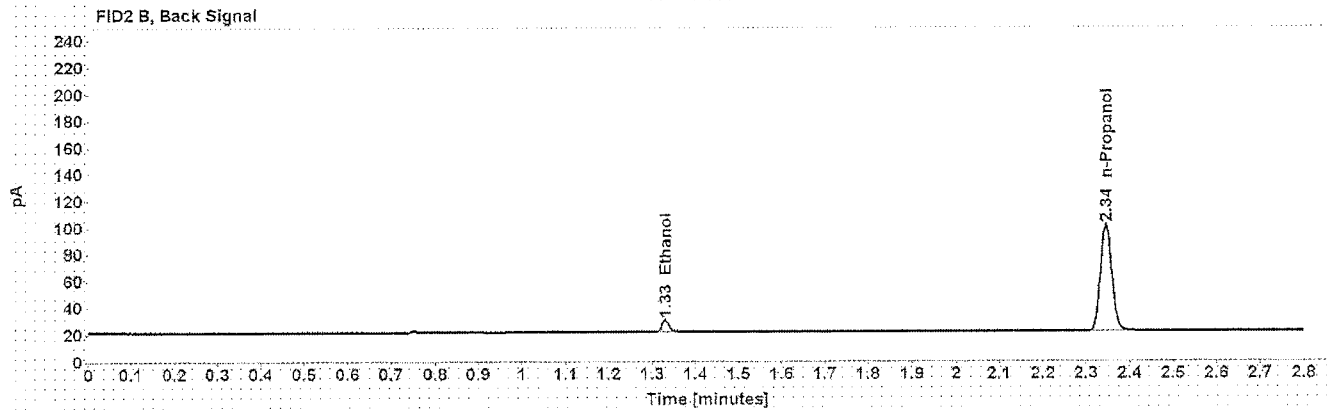
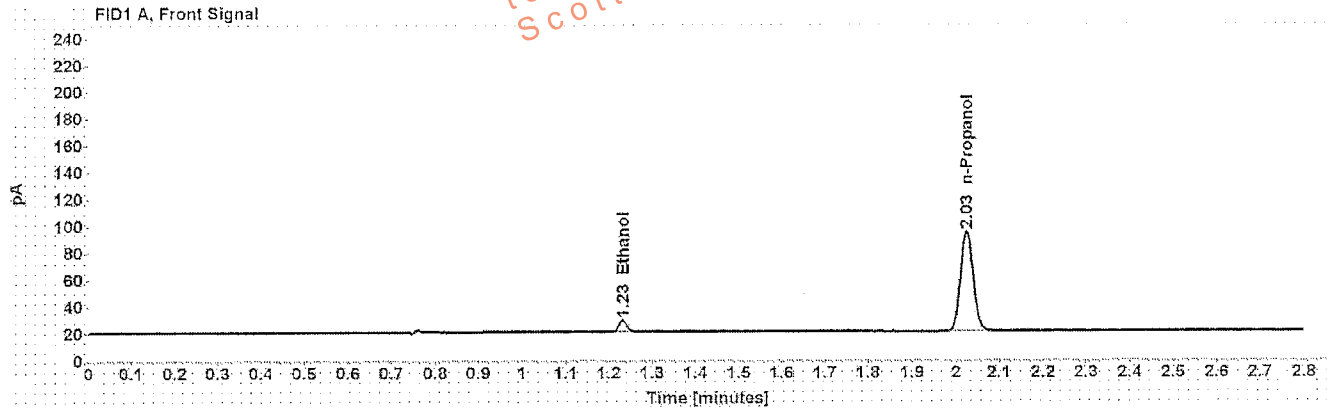


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.232	11.046
n-Propanol	2.025	152.171

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.330	10.487
n-Propanol	2.345	148.209

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.100 Cerilliant FN06181501	Item number:
Injection date: 4/3/2017 10:43:17 AM	Vial: 2
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki <i>K</i>
Data file: C:\Chem3211\Data\03Apr17\2.D	

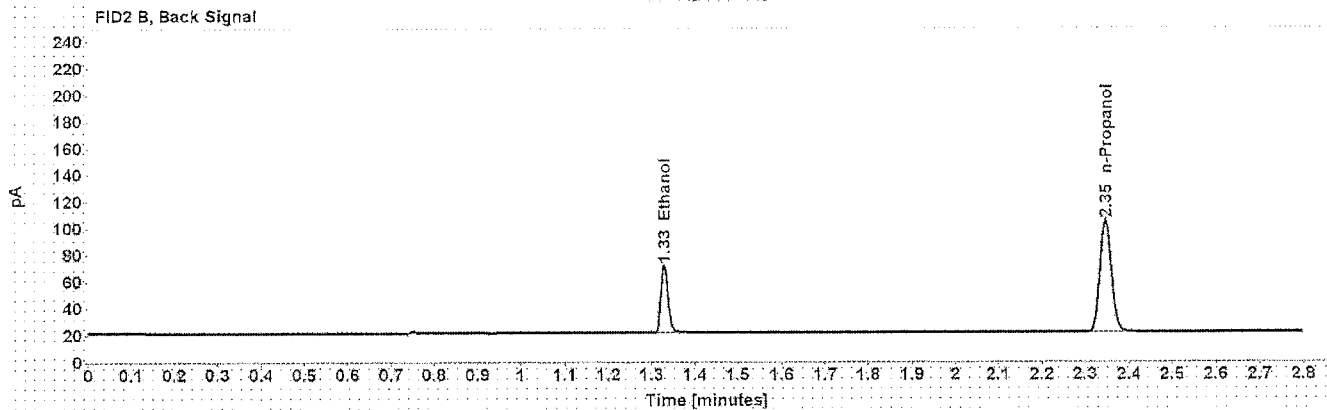
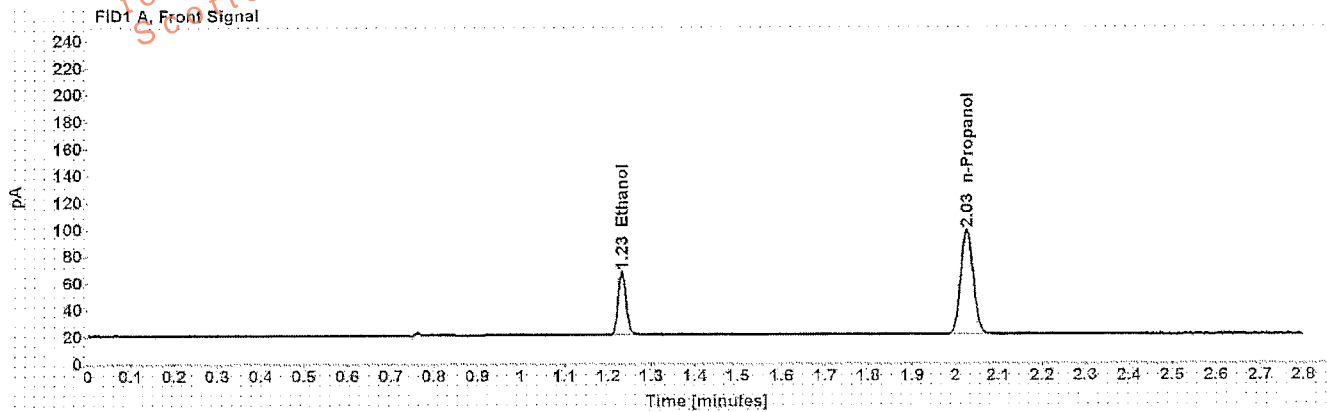


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.232	60.257
n-Propanol	2.026	159.533

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.329	58.713
n-Propanol	2.346	155.549

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.200 Cerilliant FN07201502	Item number:
Injection date: 4/3/2017 10:47:17 AM	Vial: 3
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki <i>AK</i>
Data file: C:\Chem32\1\1Data\03Apr17\3.D	

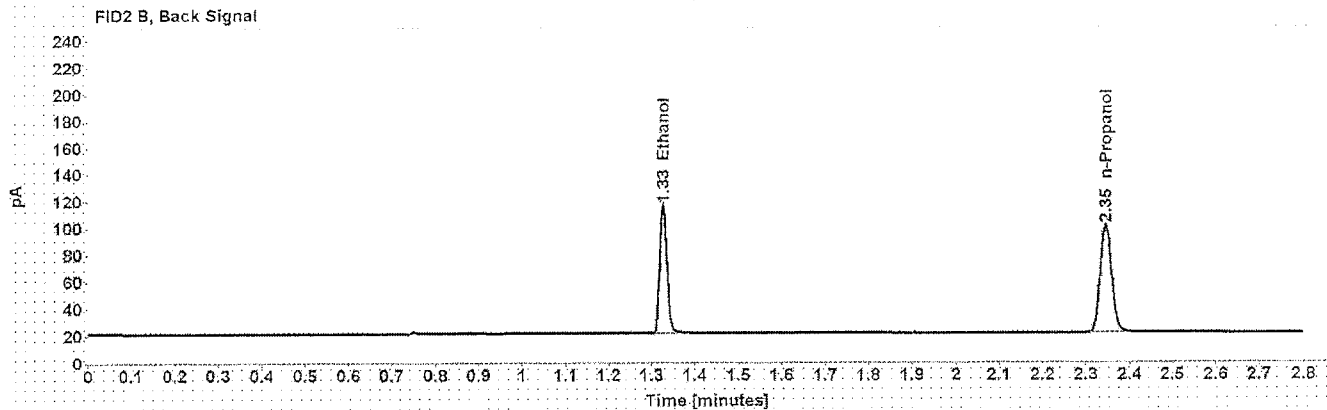
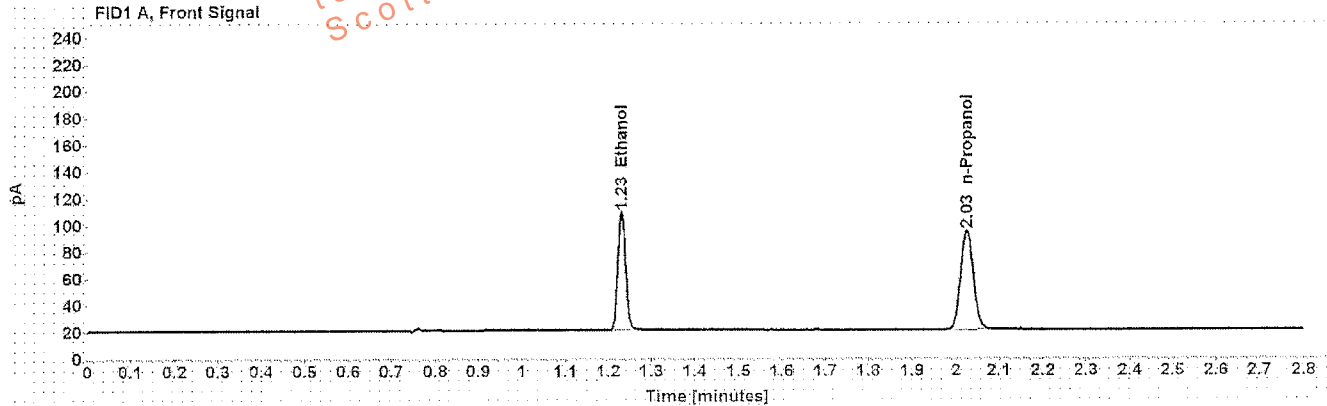


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.230	113.108
n-Propanol	2.025	151.870

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.327	110.752
n-Propanol	2.345	147.931

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.400 Cerilliant FN11191402	Item number:
Injection date: 4/3/2017 10:51:18 AM	Vial: 4
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki AK
Data file: C:\Chem32\1\Data\03Apr17\4.D	

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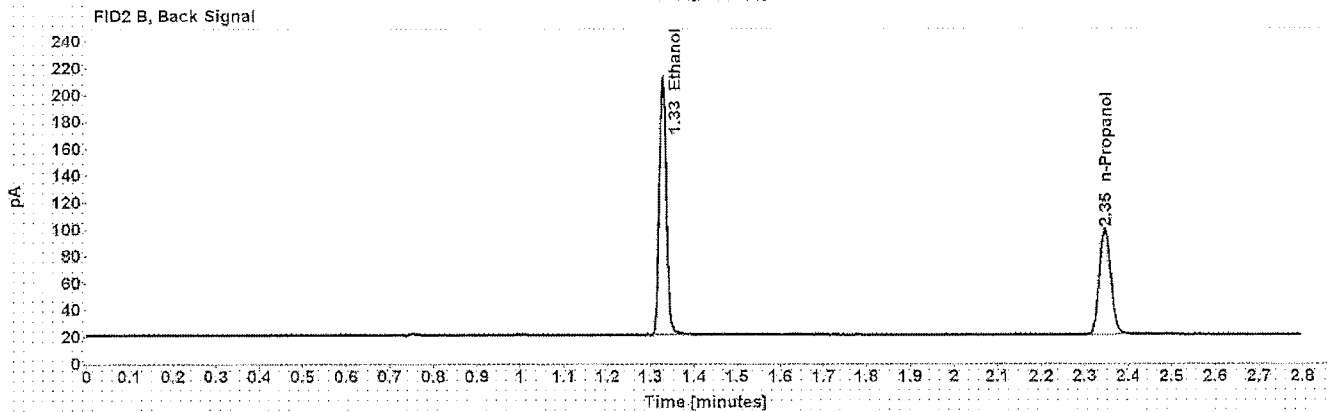
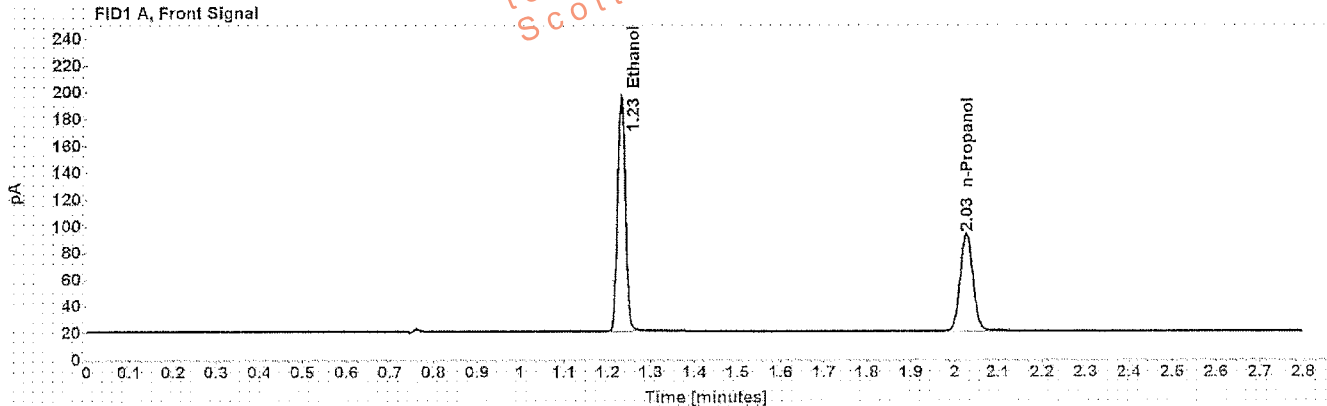


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.231	225.036
n-Propanol	2.026	150.019

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.328	221.555
n-Propanol	2.346	146.095

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 012517	Item number:
Injection date: 4/3/2017 10:55:17 AM	Vial: 5
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki <i>K</i>
Data file: C:\Chem32\11\Data\03Apr17\5.D	

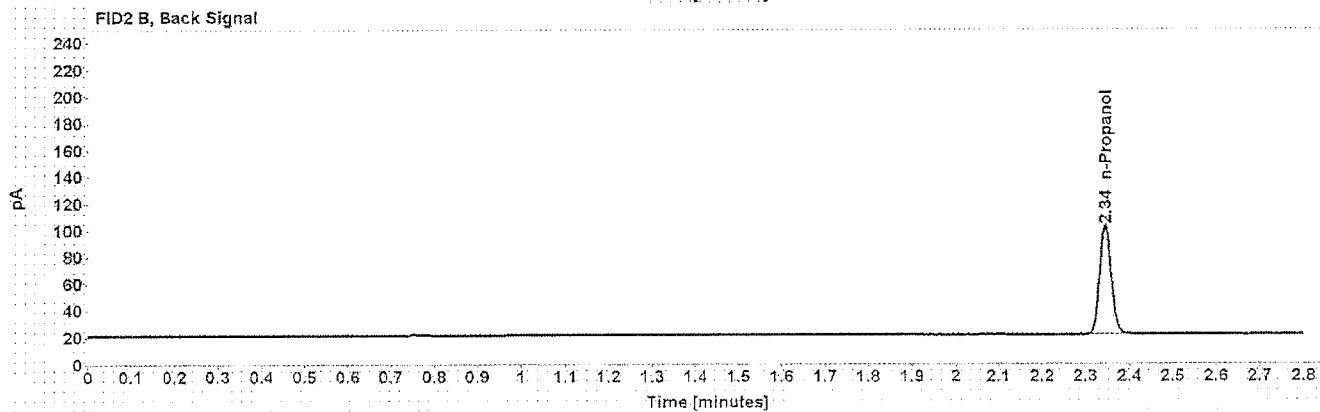
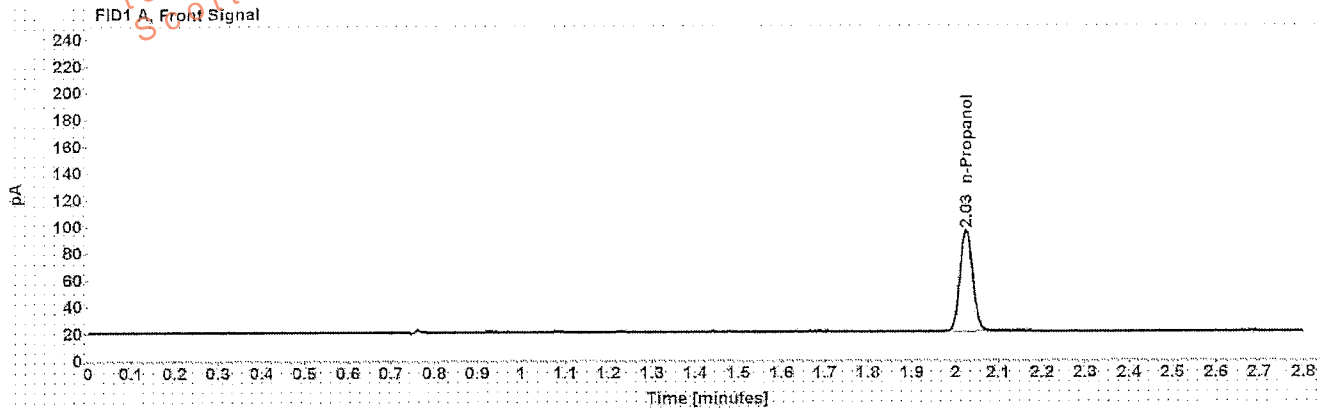


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.025	154.840

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
n-Propanol	2.345	150.794

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: volatiles mix 020917 WLA	Item number: 6
Injection date: 4/3/2017 10:59:18 AM	Vial: 6
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki <i>K</i>
Data file: C:\Chem32\11\Data\03Apr17\6.D	

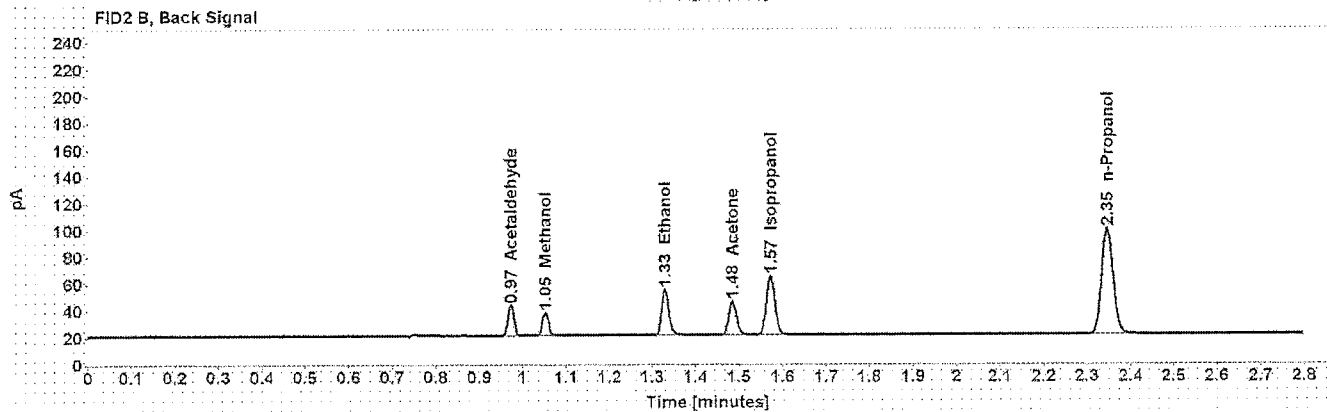
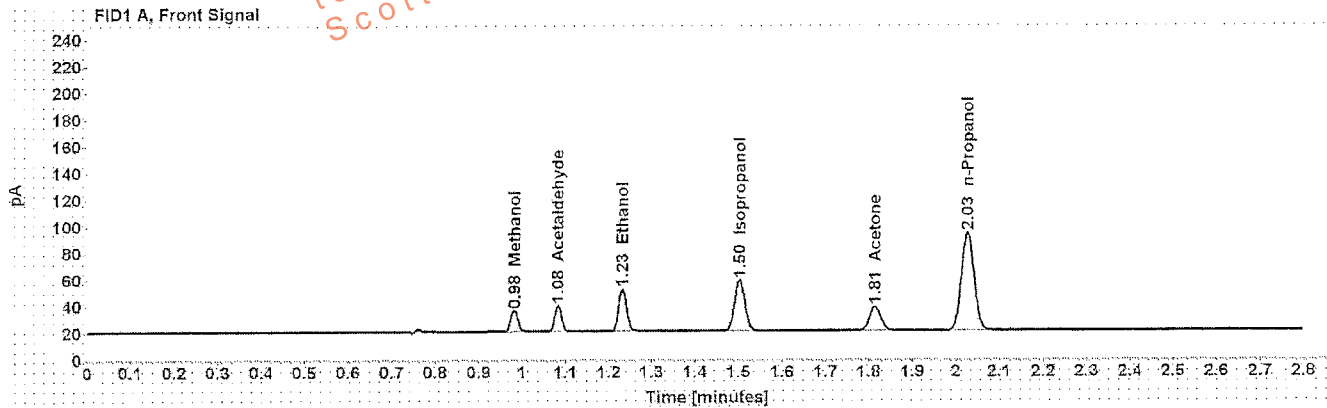


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.982	18.271
Acetaldehyde	-----	1.084	21.484
>Ethanol	0.0730	1.232	41.024
Isopropanol	-----	1.502	62.830
Acetone	-----	1.814	32.114
n-Propanol	-----	2.026	150.620

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	21.733
Methanol	1.052	17.799
Ethanol	1.329	39.862
Acetone	1.484	31.325
Isopropanol	1.572	61.918
n-Propanol	2.346	146.617



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.400 Lipomed 08012015-C	Item number:
Injection date: 4/3/2017 11:03:32 AM	Vial: 7
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki <i>AK</i>
Data file: C:\Chem32\1\Data\03Apr17\7.D	

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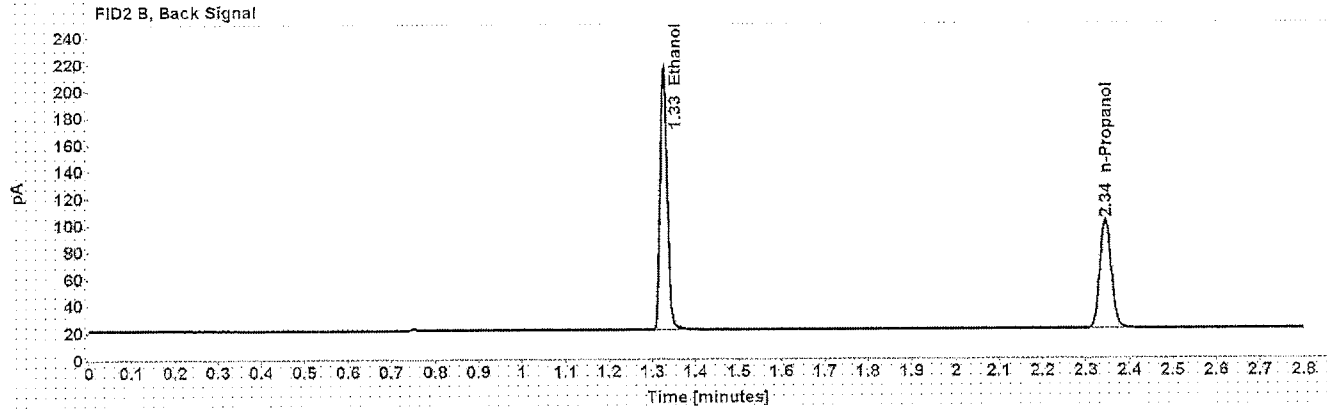
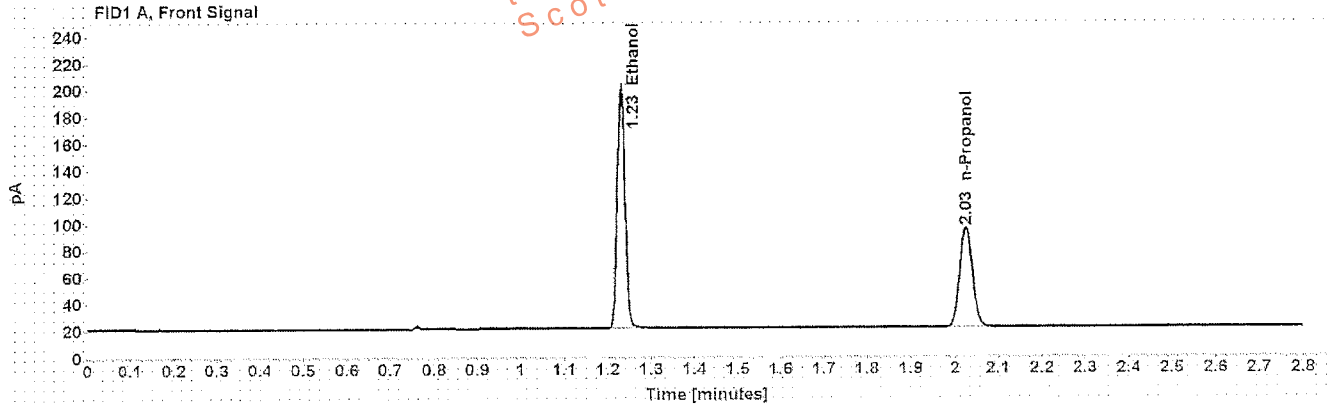


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4000	1.230	230.067
n-Propanol	-----	2.025	153.494

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.326	226.107
n-Propanol	2.345	149.551

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.040 Lipomed 09022015-A	Item number:
Injection date: 4/3/2017 11:07:32 AM	Vial: 8
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki <i>AK</i>
Data file: C:\Chem32\11\Data\03Apr17\8.D	

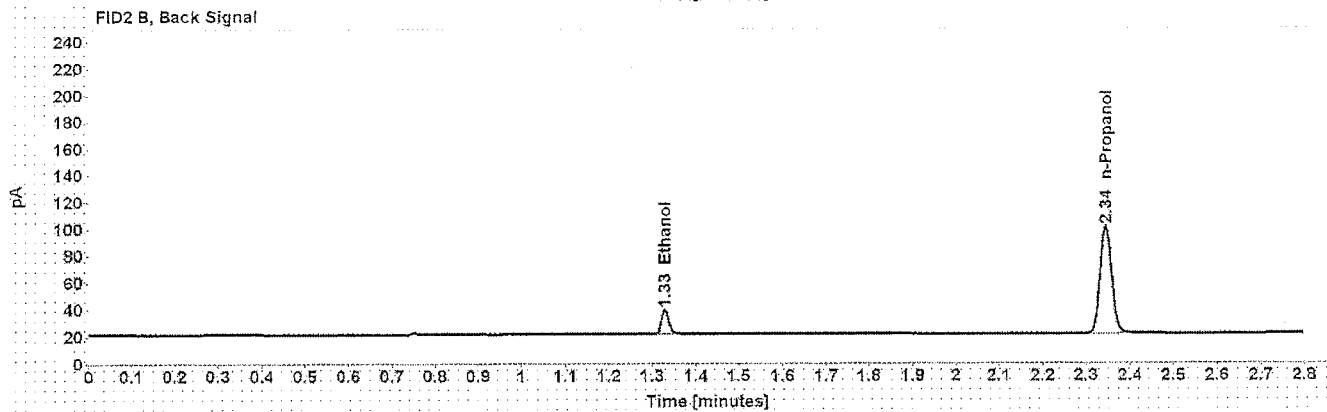
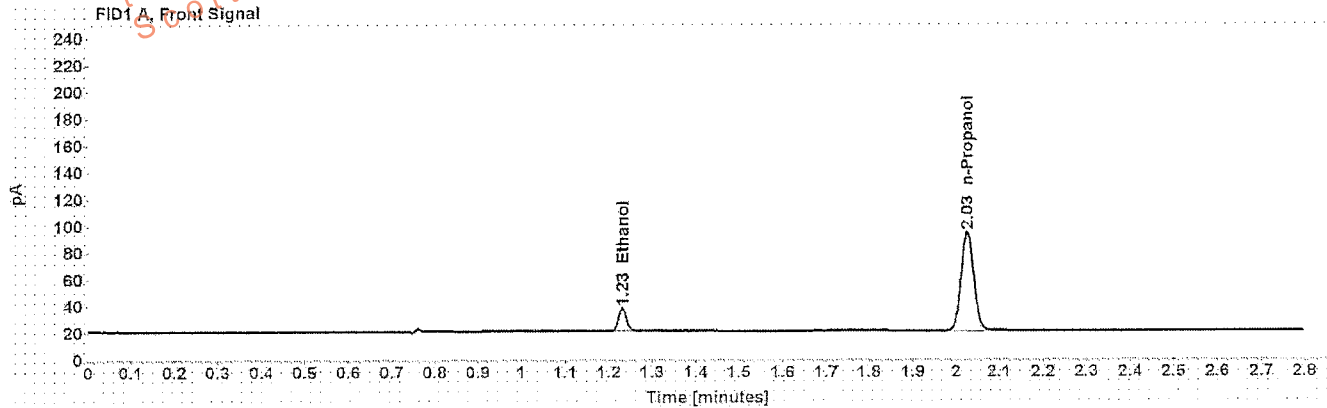


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0390	1.231	21.930
n-Propanol	-----	2.025	151.432

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.329	21.116
n-Propanol	2.345	147.785

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.20 ACQ 407041529/3	Item number:
Injection date: 4/3/2017 11:11:33 AM	Vial: 9
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki <i>K</i>
Data file: C:\Chem32\14Data\03Apr17\9.D	

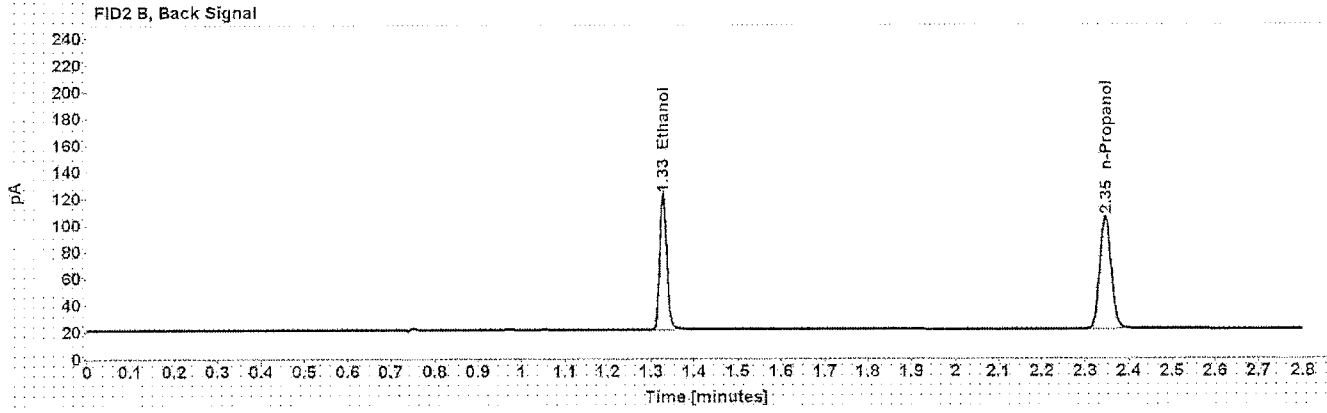
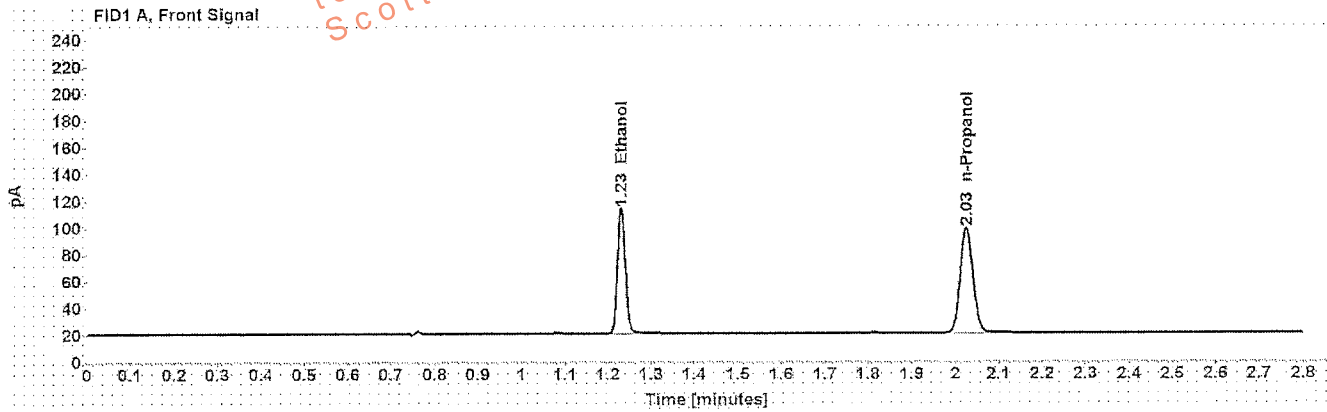


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2006	1.231	120.030
n-Propanol	-----	2.026	159.821

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.328	117.411
n-Propanol	2.346	155.962

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 0.40 Lipomed 08012015-C	Item number:
Injection date: 4/3/2017 11:23:33 AM	Vial: 12
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki <i>JK</i>
Data file: C:\Chem32\1\Data\03Apr17\12.D	

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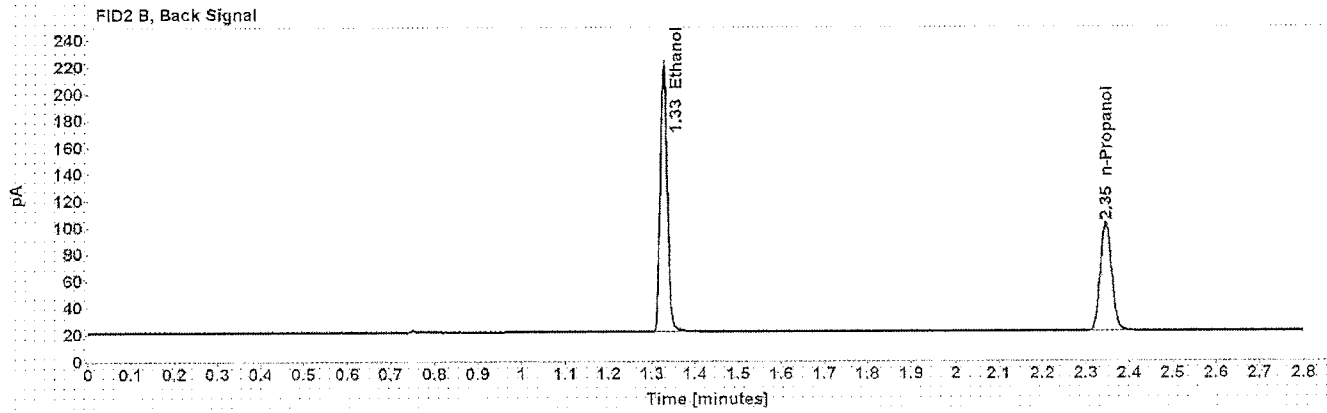
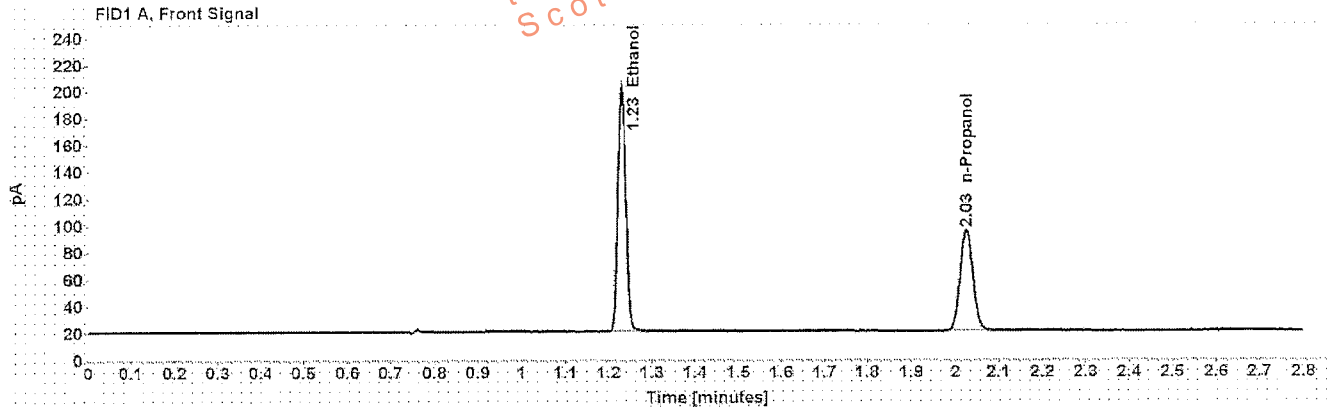


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4016	1.230	232.677
n-Propanol	-----	2.025	154.599

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.327	229.143
n-Propanol	2.345	150.784

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 0.04 Lipomed 09022015-A	<b>Item number:</b>
<b>Injection date:</b> 4/3/2017 11:27:47 AM	<b>Vial:</b> 13
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 03Apr17
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Kosecki <i>AK</i>
<b>Data file:</b> C:\Chem32\11\Data\03Apr17\13.D	

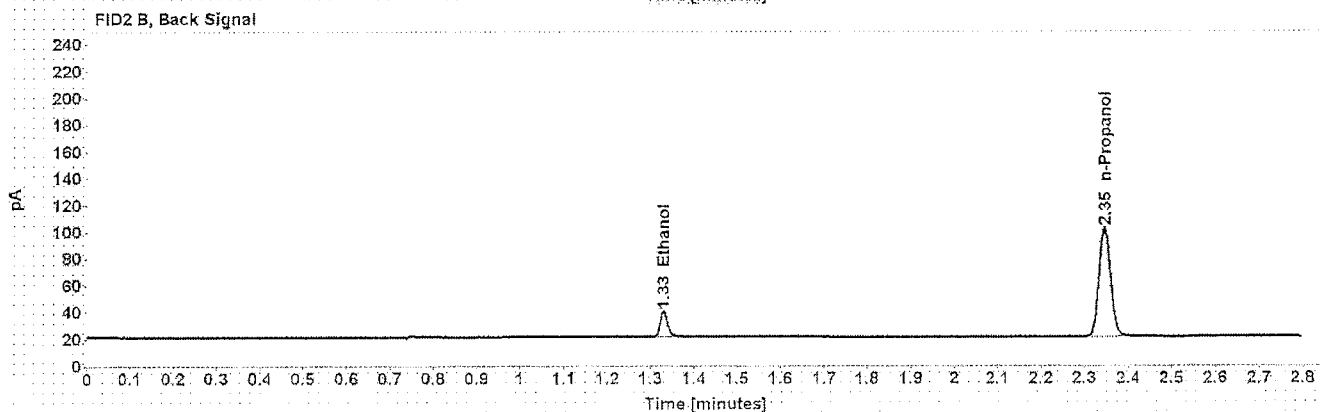
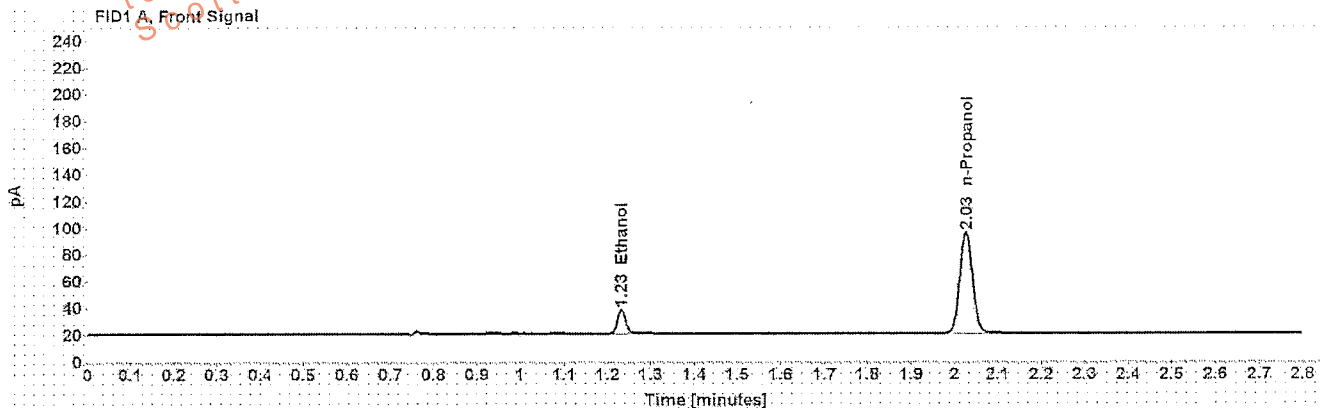


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0394	1.232	22.673
n-Propanol	-----	2.026	154.788

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.330	21.974
n-Propanol	2.346	151.263

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 0.20 ACQ 407041529/3	<b>Item number:</b>
<b>Injection date:</b> 4/3/2017 11:31:48 AM	<b>Vial:</b> 14
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 03Apr17
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Kosecki PK
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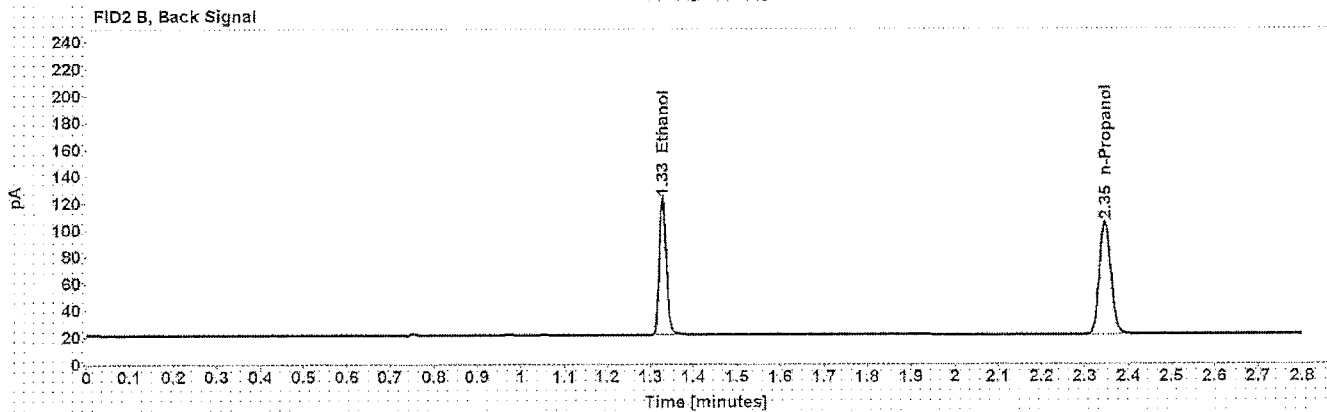
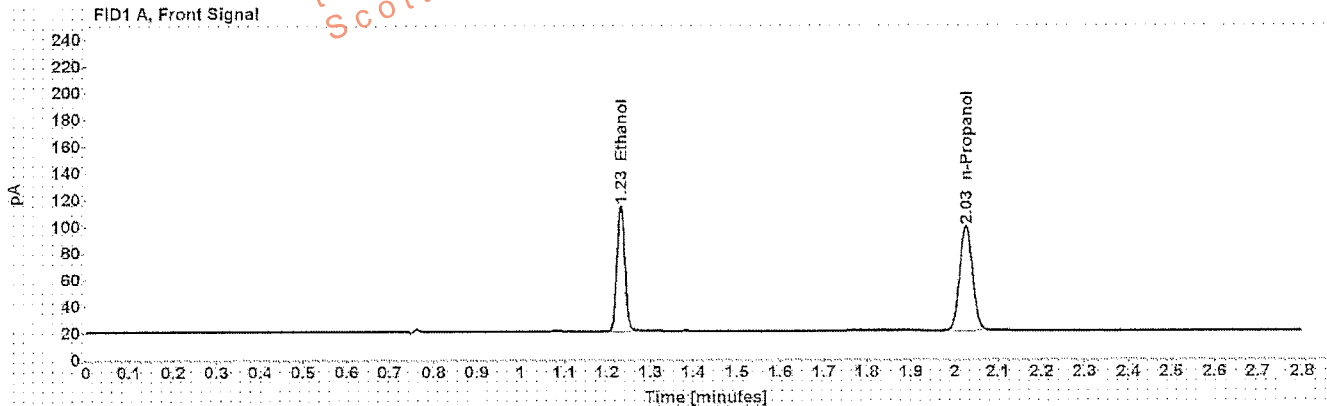


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2010	1.231	120.668
n-Propanol	-----	2.026	160.322

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Ethanol	1.328	118.293
n-Propanol	2.346	156.790

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: blank 012517	Item number:
Injection date: 4/3/2017 11:35:48 AM	Vial: 15
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki AK
Data file: C:\Chem32\1\Data\03Apr17\15.D	

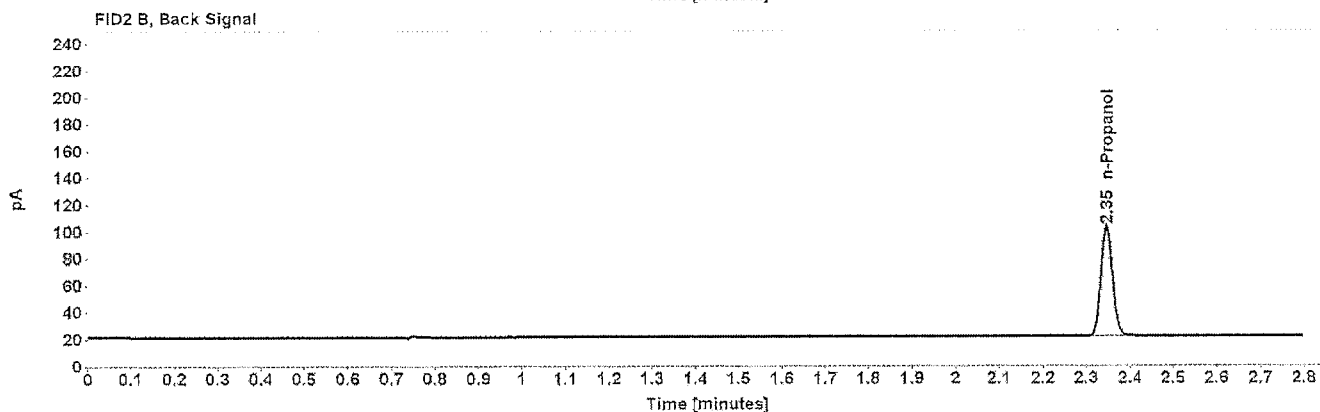
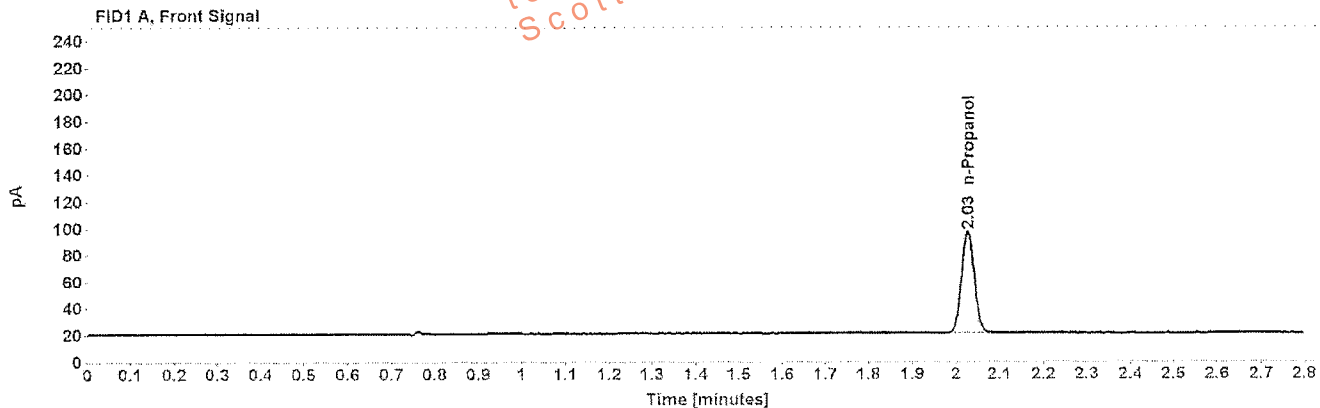


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.026	155.633

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
n-Propanol	2.346	152.149

# Sequence Summary

Sequence name: 03Apr17 Instrument: US14173023 CN14160045 Analyst: Kosecki *AK*

Vial	Sample	Type	Item Number	Method
1	0.020 Cerilliant FN03241604	Calibration		ethanol quant.M
2	0.100 Cerilliant FN06181501	Calibration		ethanol quant.M
3	0.200 Cerilliant FN07201502	Calibration		ethanol quant.M
4	0.400 Cerilliant FN11191402	Calibration		ethanol quant.M
5	blank 012517	Control		ethanol quant.M
6	volatiles mix 020917 WLA	Control		ethanol quant.M
7	0.400 Lipomed 08012015-C	Control		ethanol quant.M
8	0.040 Lipomed 09022015-A	Control		ethanol quant.M
9	0.20 ACQ 407041529/3	Control		ethanol quant.M
10	L16 [REDACTED]	Sample	1071752	ethanol quant.M
11	L16 [REDACTED]	Sample	1071752	ethanol quant.M
12	0.40 Lipomed 08012015-C	Control		ethanol quant.M
13	0.04 Lipomed 09022015-A	Control		ethanol quant.M
14	0.20 ACQ 407041529/3	Control		ethanol quant.M
15	blank 012517	Control		ethanol quant.M



# Scottsdale Police Department Crime Laboratory Summary of Cases

SEQUENCE NAME: 03Apr17

ANALYST: Kosecki *AK*

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.1316	0.1311	0.13135	0.19	0.00025

\*Calculated differences are differences from the mean of the two results.

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1071752
Injection date: 4/3/2017 11:15:33 AM	Vial: 10
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem32\1\Data\03Apr17\10.D	

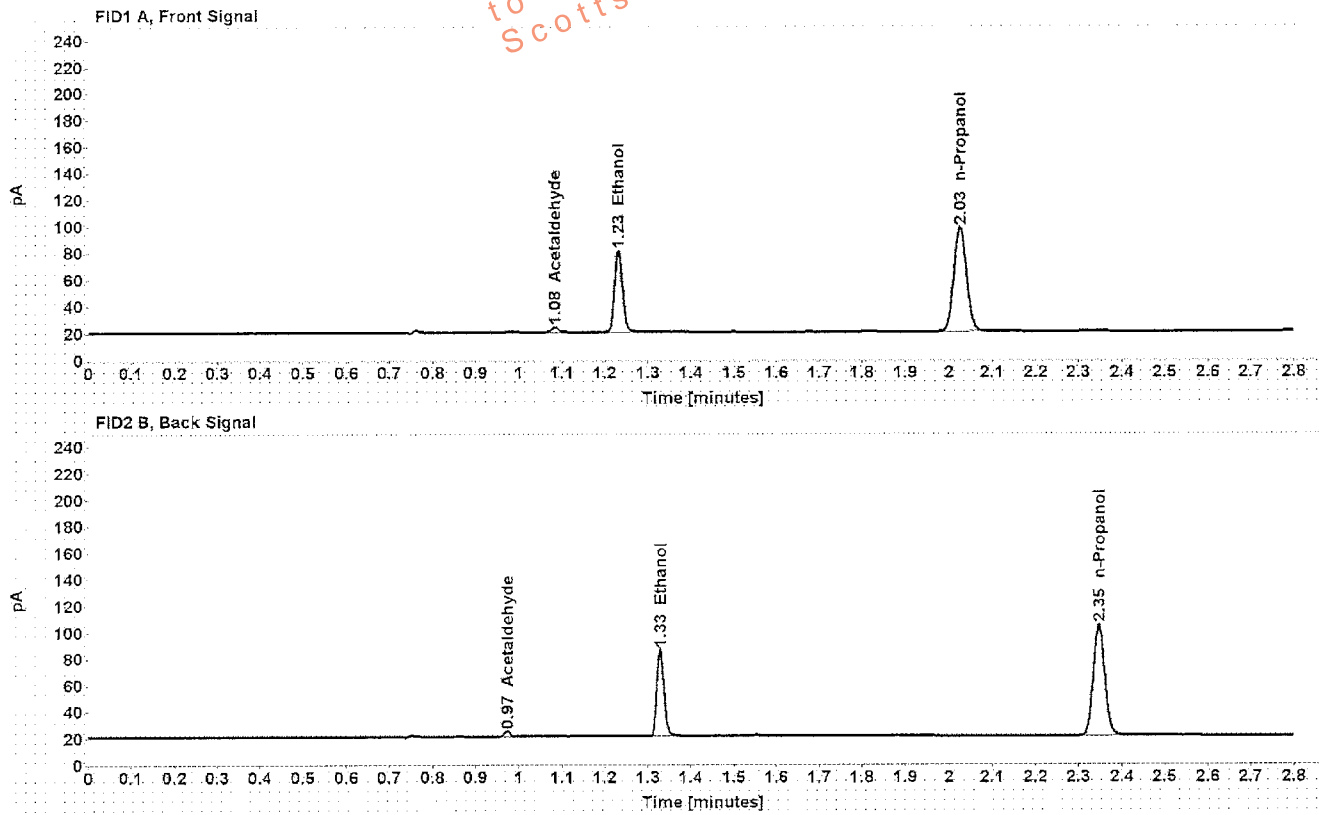


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.084	3.824
>Ethanol	0.1316	1.231	78.077
n-Propanol	-----	2.026	158.636

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	3.816
Ethanol	1.328	76.267
n-Propanol	2.346	155.250

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: [REDACTED]	Item number: 1071752
Injection date: 4/3/2017 11:19:33 AM	Vial: 11
Method: ethanol quant.M	Sequence: 03Apr17
Instrument: US14173023 CN14160045	Analyst: Kosecki
Data file: C:\Chem3211\Data\03Apr17\11.D	

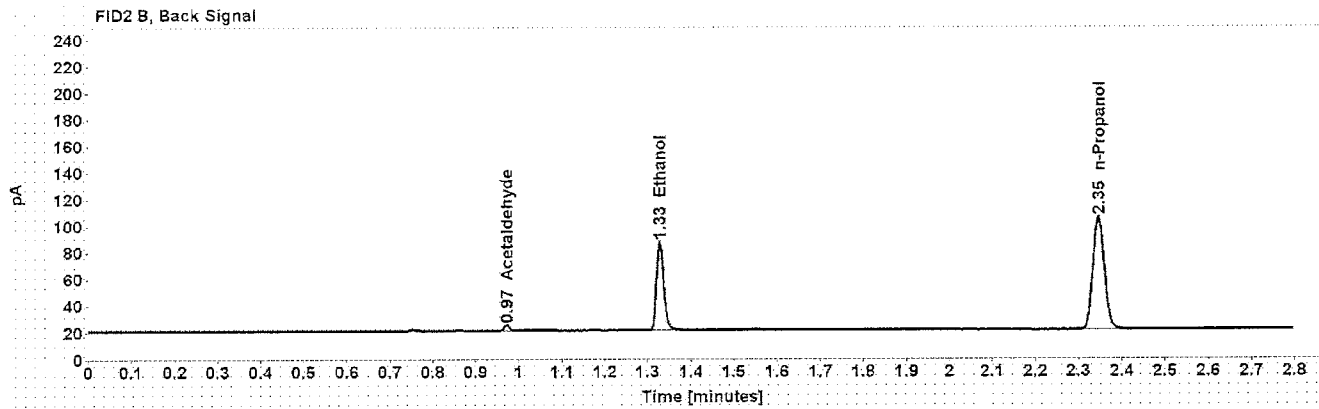
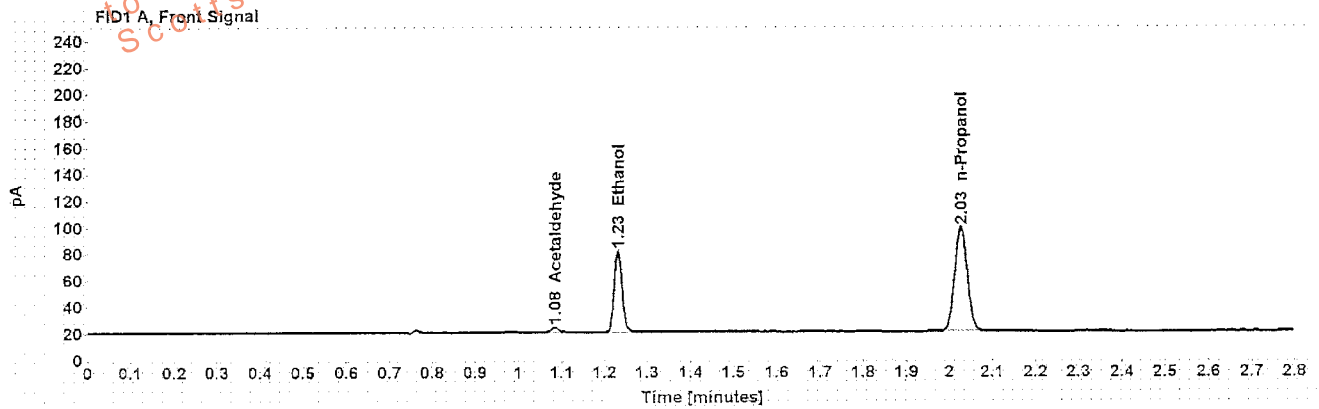


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.084	3.845
>Ethanol	0.1311	1.231	78.807
n-Propanol	-----	2.026	160.723

Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Acetaldehyde	0.973	3.848
Ethanol	1.328	76.905
n-Propanol	2.346	157.243