

# SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 4/15/20 SEQUENCE NAME 15Apr20

**EQUIPMENT**

Pipettor  Hamilton ML600EH7497  Hamilton ML600GJ10749  
 Gas Chromatograph  Agilent US14173023

**INSTRUMENT CALIBRATION**

Vial 1 0.02 calibrator Lot FN03241604 Coefficient of determination (r<sup>2</sup>)  
 Vial 2 0.10 calibrator Lot FN02271802 0.99996  
 Vial 3 0.20 calibrator Lot FN06231704  
 Vial 4 0.40 calibrator Lot FN05131606

**CALIBRATION VERIFICATION AND RESOLUTION TEST**

Vial	Sample	Expected result	Measured result	Manufacturer/lot
5	Blank	Not detected	Not detected	SPD lab 121219
6	Volatiles mix	6 compounds	6 compounds	SPD lab 070819
7	Aqueous control	0.400 g/dL	0.404 g/dL	Lipomed 11092018-A
8	Aqueous control	0.040 g/dL	0.039 g/dL	Lipomed 14082019-B
9	Blood control	0.198 g/dL	0.201 g/dL	ACQ 407041529/13
20	Aqueous control	0.080 g/dL	0.081 g/dL	Lipomed 03102016-A/1
31	Aqueous control	0.150 g/dL	0.152 g/dL	Lipomed 14082019-C
38	Aqueous control	0.400 g/dL	0.405 g/dL	Lipomed 11092018-A
39	Aqueous control	0.040 g/dL	0.040 g/dL	Lipomed 14082019-B
40	Blood control	0.198 g/dL	0.201 g/dL	ACQ 407041529/13
41	Blank	Not detected	Not detected	SPD lab 040919WB

**SUBJECT SAMPLES**

Subjects in the sequence 13 Subjects requiring reanalysis 0

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

Run valid  Philip B... Run valid  Erika Canonica  
 Run invalid  Analyst Run invalid  Technical Reviewer

# Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

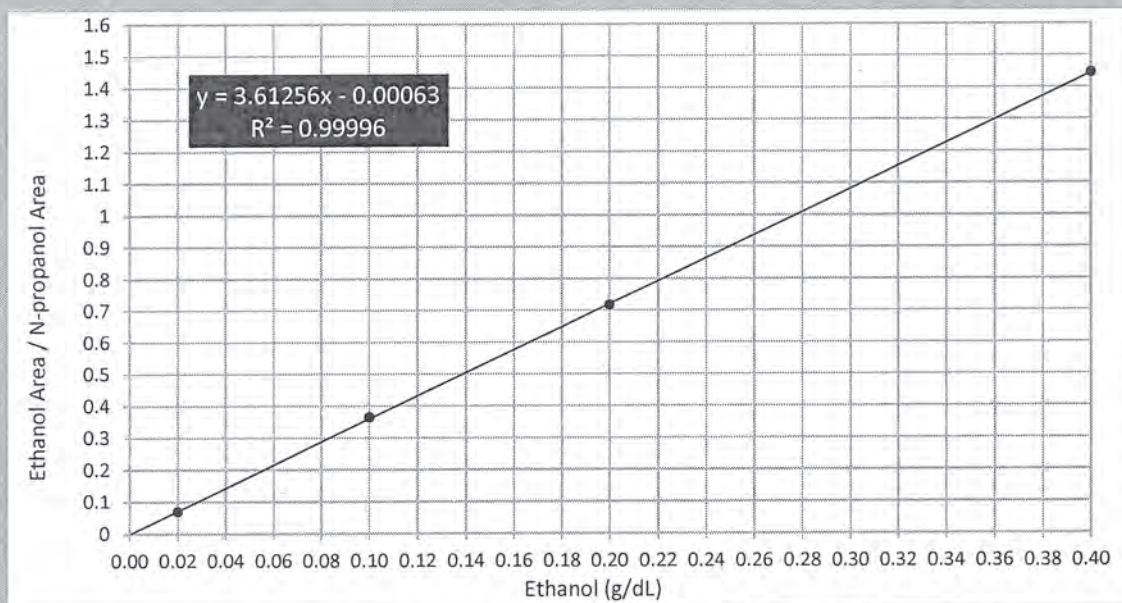
SEQUENCE NAME: 15Apr20

ANALYST: Brooke

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 121219	5	negative	negative	-	-
0.400 Lipomed 11092018-A	7	0.404	0.400	1.00	0.004
0.040 Lipomed 14082019-B	8	0.039	0.040	2.50	-0.001
0.198 ACQ 407041529/13	9	0.201	0.198	1.52	0.003
0.080 Lipomed 03102016-A/1	20	0.081	0.080	1.25	0.001
0.150 Lipomed 14082019-C	31	0.152	0.150	1.33	0.002
0.400 Lipomed 11092018-A	38	0.405	0.400	1.25	0.005
0.040 Lipomed 14082019-B	39	0.040	0.040	0.00	0.000
0.198 ACQ 407041529/13	40	0.201	0.198	1.52	0.003
blank 040919WB	41	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	11.841	169.251	0.070
0.100	65.183	178.411	0.365
0.200	120.653	168.051	0.718
0.400	242.998	168.134	1.445

**Calibration Line**





# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: FN03241604	Vial: 1
Description: 0.020 calibrator	Sequence: 15Apr20
Method: ethanol quant.M	Injection date: 4/15/2020 12:49:40 PM
Instrument: US14173023 CN14160045	Analyst: Brooke <i>FB</i>
Data file: C:\Chem3211\Data\Raines\15Apr20\1.D	

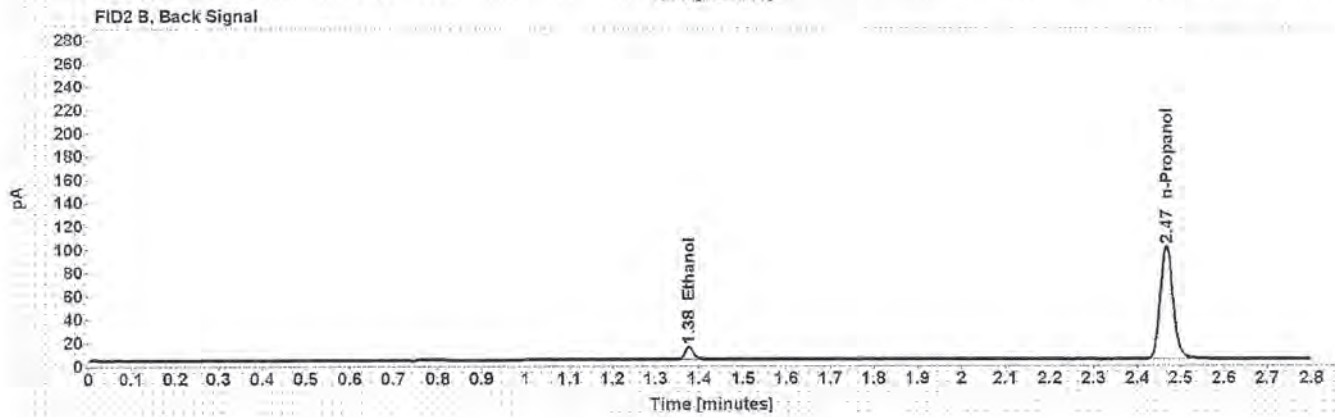


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.212	11.841
n-Propanol	2.015	169.251

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

Compound	Time (min)	Peak Area
Ethanol	1.376	14.187
n-Propanol	2.467	199.250

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN02271802	<b>Vial:</b> 2
<b>Description:</b> 0.100 calibrator	<b>Sequence:</b> 15Apr20
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 4/15/2020 12:53:40 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Brooke <i>BS</i>
<b>Data file:</b> C:\Chem32\1\Data\Raines\15Apr20\2.D	

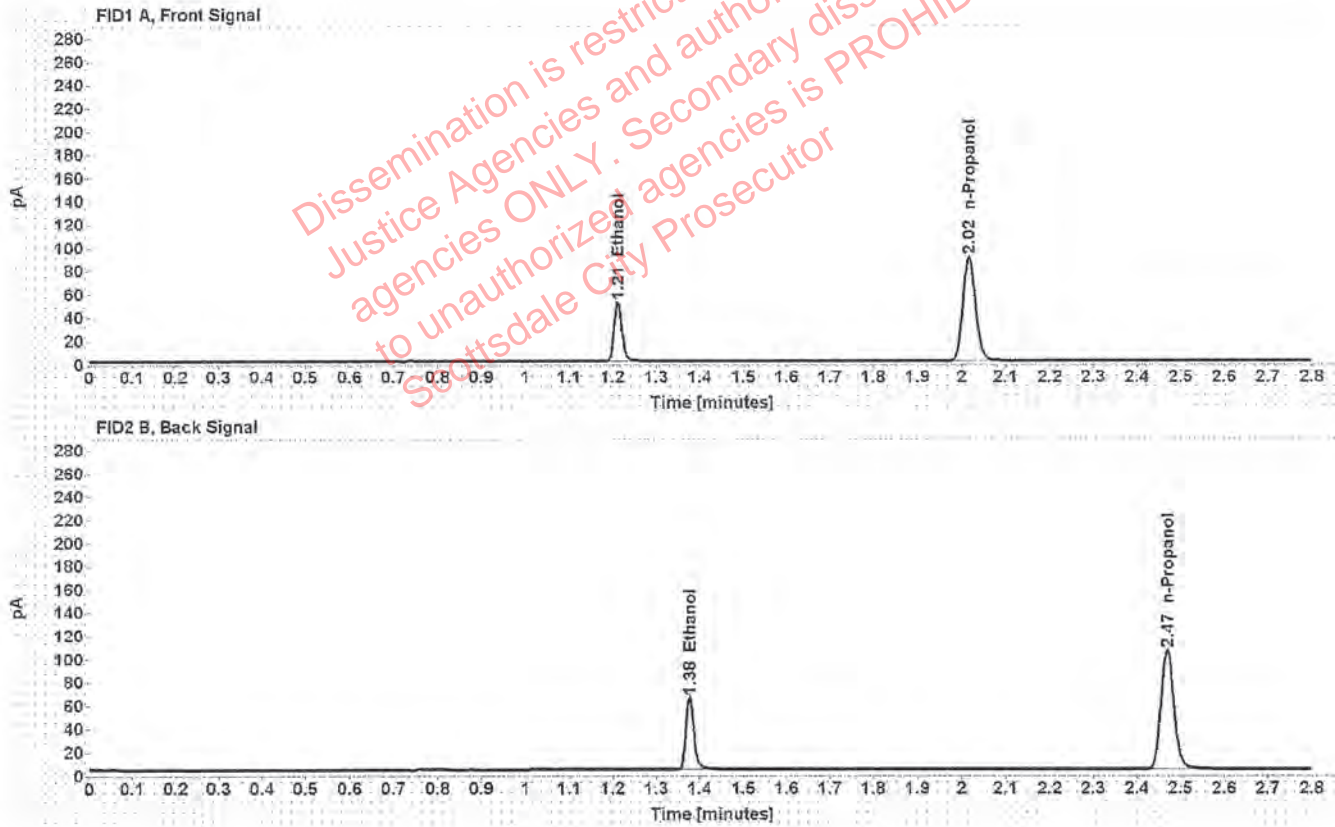


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.211	65.183
n-Propanol	2.017	178.411

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

Compound	Time (min)	Peak Area
Ethanol	1.377	79.057
n-Propanol	2.470	211.132

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: FN06231704	Vial: 3
Description: 0.200 calibrator	Sequence: 15Apr20
Method: ethanol quant.M	Injection date: 4/15/2020 12:57:39 PM
Instrument: US14173023 CN14160045	Analyst: Brooke <i>YB</i>
Data file: C:\Chem32\1\Data\Raines\15Apr20\3.D	

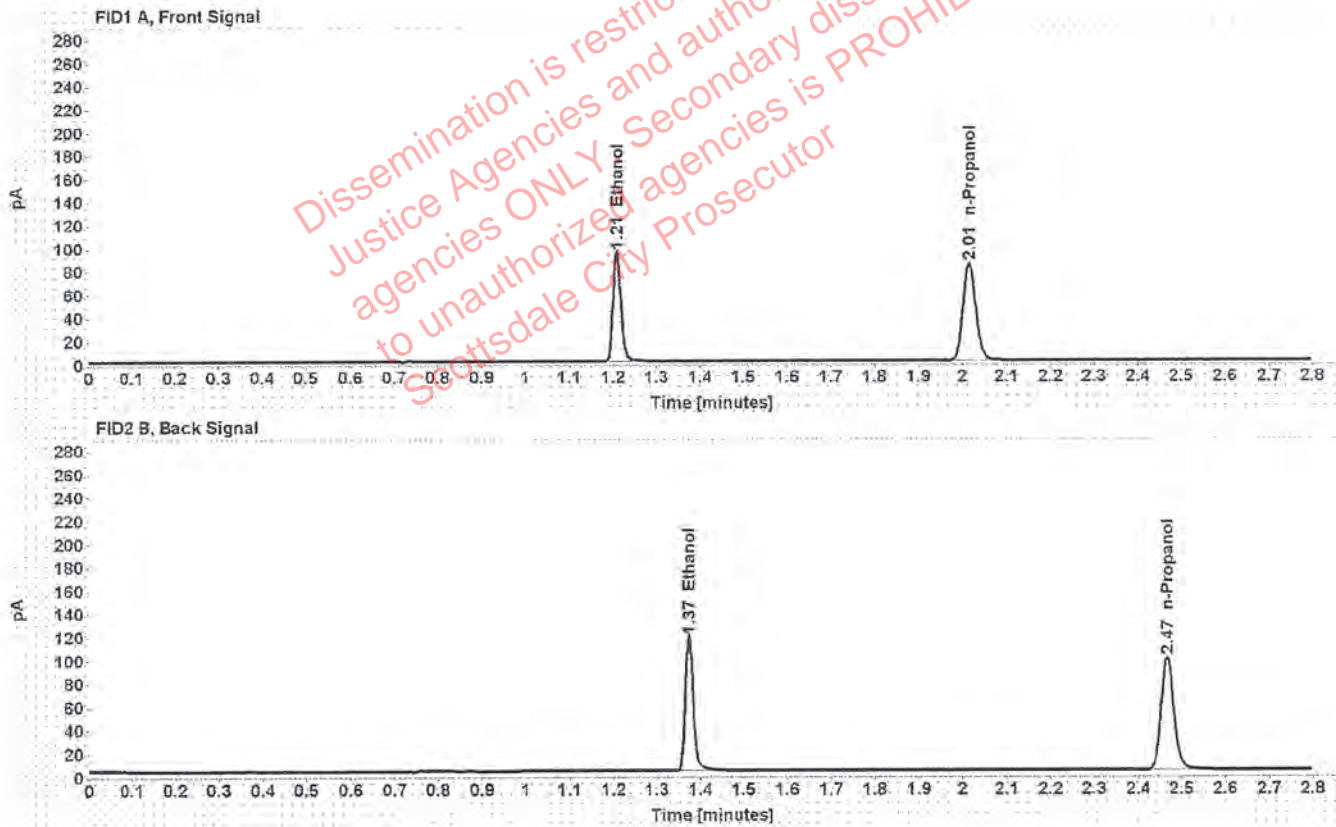


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	120.653
n-Propanol	2.015	168.051

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

Compound	Time (min)	Peak Area
Ethanol	1.373	147.149
n-Propanol	2.467	199.487

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN05131606	<b>Vial:</b> 4
<b>Description:</b> 0.400 calibrator	<b>Sequence:</b> 15Apr20
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 4/15/2020 1:01:39 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Brooke
<b>Data file:</b> C:\Chem32\1\Data\Raines\15Apr20\4.D	

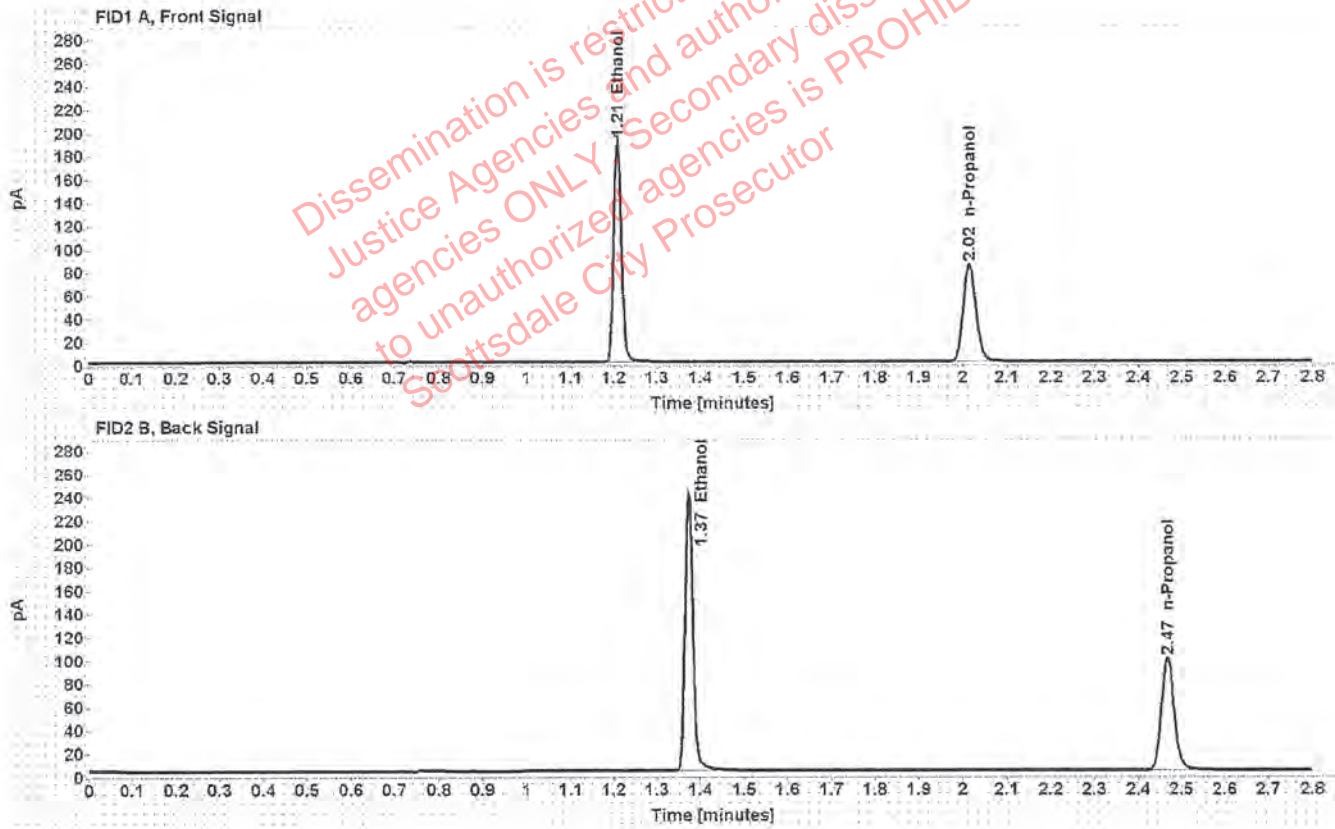


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.208	242.998
n-Propanol	2.015	168.134

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

Compound	Time (min)	Peak Area
Ethanol	1.374	298.555
n-Propanol	2.467	199.714



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 121219	Vial: 5
Description: Negative	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 1:05:40 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\5.D	Analyst: Brooke <i>AR</i>

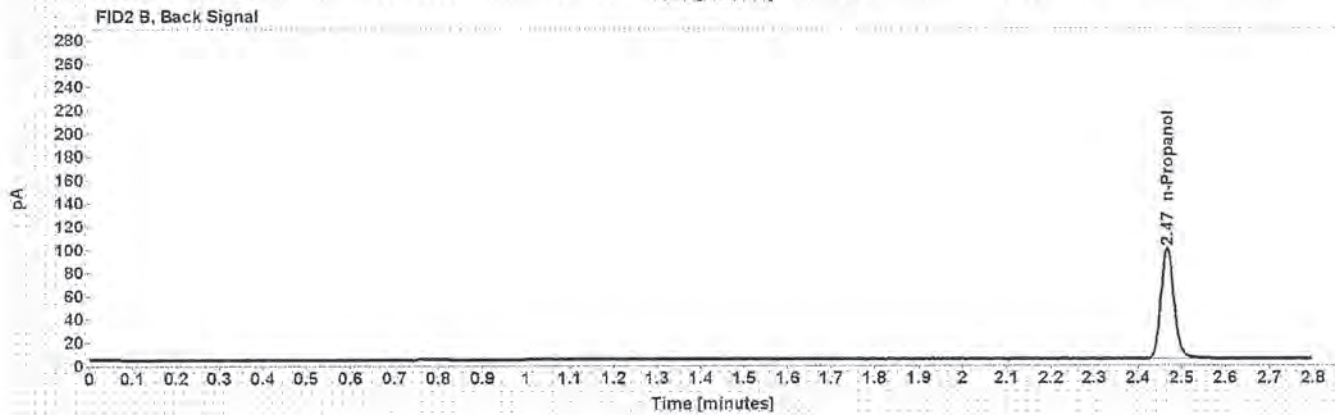


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.015	166.659

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

Compound	Time (min)	Peak Area
n-Propanol	2.467	197.235

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 070819	Vial: 6
Description: Volatiles mix	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 1:09:39 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\6.D	Analyst: Brooke <i>YBS</i>

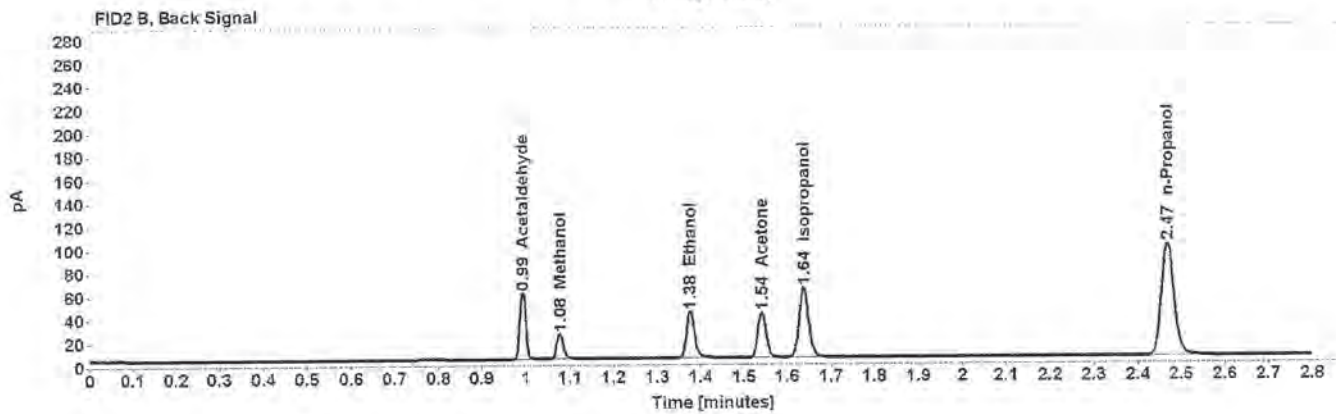
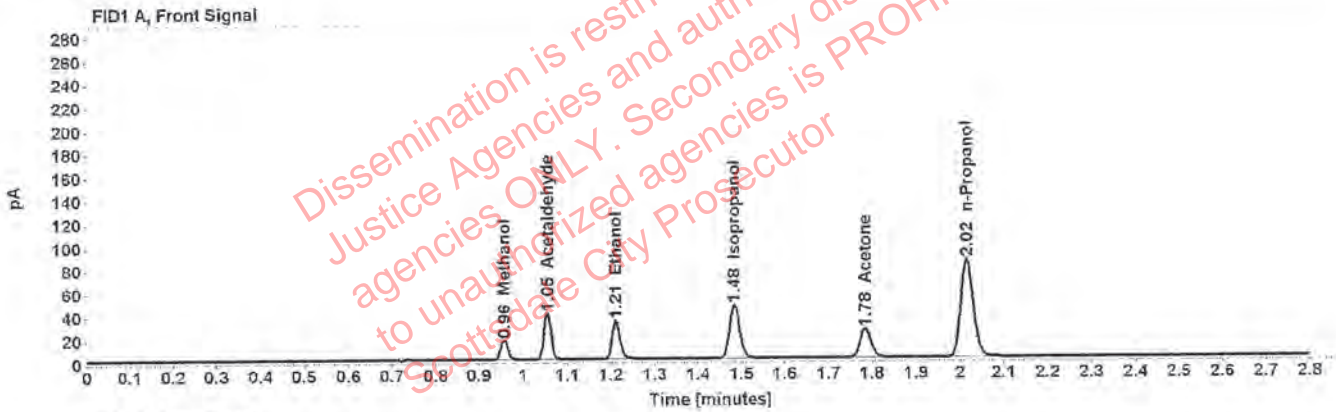


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.957	18.986
Acetaldehyde	-----	1.055	43.480
>Ethanol	0.0701	1.211	42.612
Isopropanol	-----	1.484	74.169
Acetone	-----	1.784	42.818
n-Propanol	-----	2.016	168.654

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	56.275
Methanol	1.077	24.011
Ethanol	1.376	51.332
Acetone	1.541	51.262
Isopropanol	1.637	92.035
n-Propanol	2.469	200.585



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 11092018-A	Vial: 7
Description: 0.400	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 1:13:54 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\7.D	Analyst: Brooke <i>BR</i>

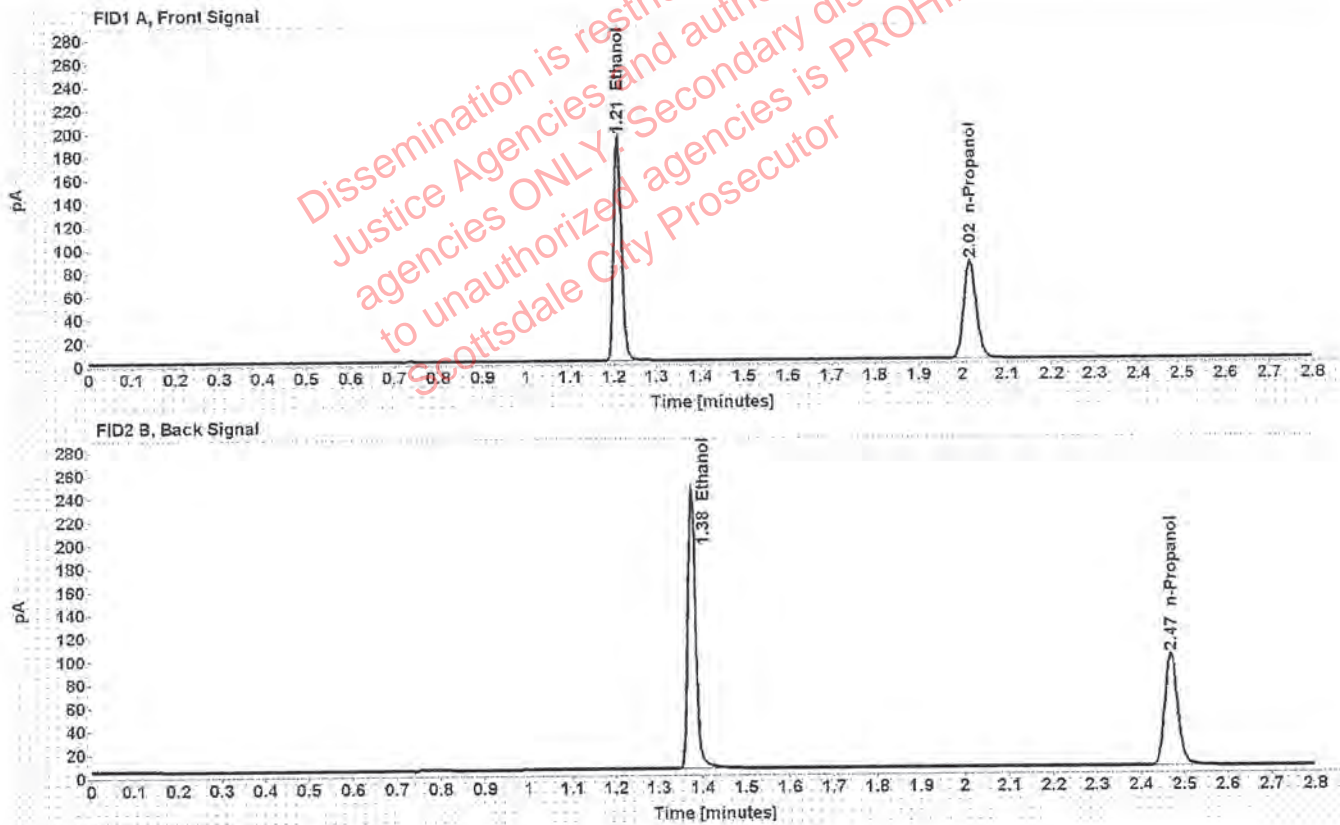


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4040	1.210	245.726
n-Propanol	-----	2.016	168.442

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

Compound	Time (min)	Peak Area
Ethanol	1.375	301.908
n-Propanol	2.469	200.016

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 14082019-B	Vial: 8
Description: 0.040	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 1:17:54 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\8.D	Analyst: Brooke <i>RB</i>

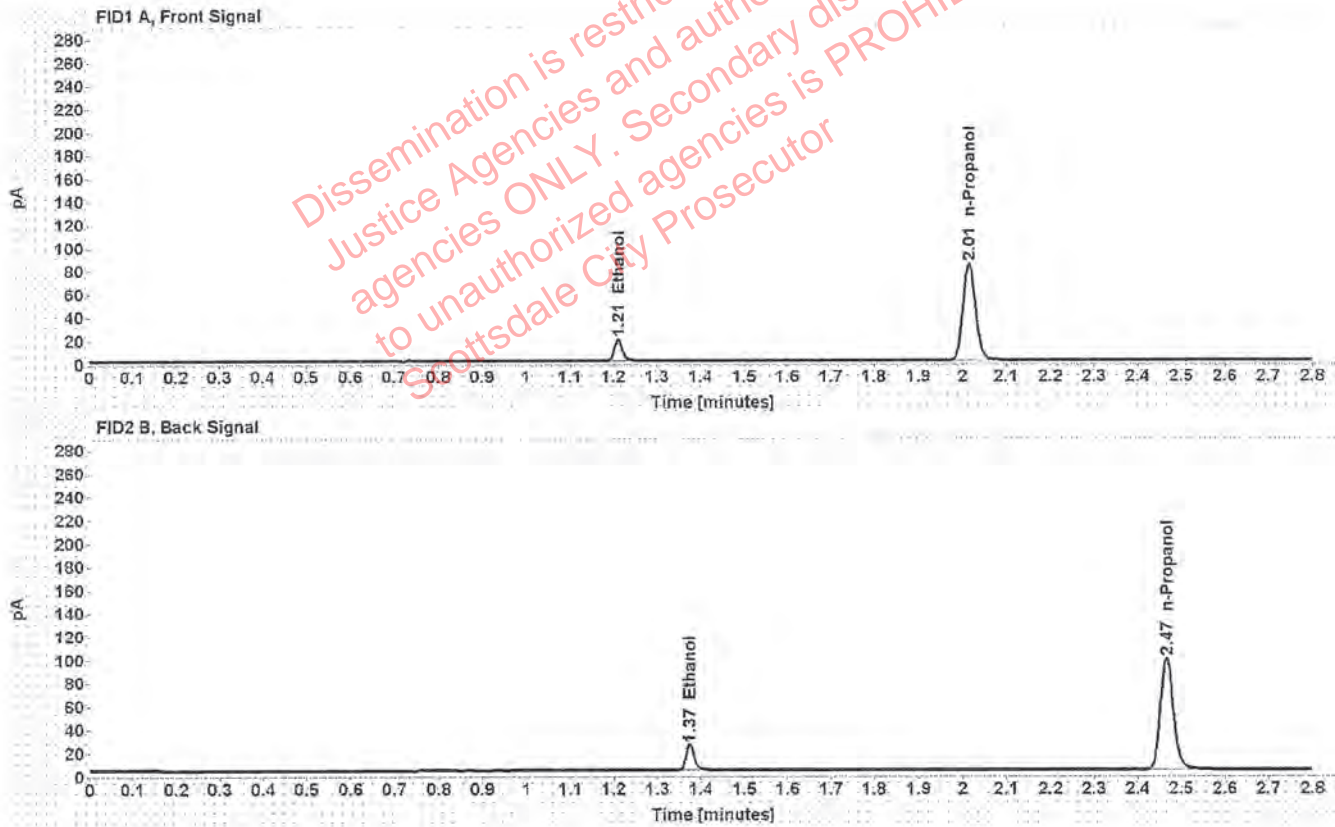


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0397	1.211	23.890
n-Propanol	-----	2.015	167.397

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

Compound	Time (min)	Peak Area
Ethanol	1.375	28.548
n-Propanol	2.467	198.234

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 407041529/13	Vial: 9
Description: 0.198	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 1:21:55 PM
Data file: C:\Chem32\1\Data\Raines\15Apr2019.D	Analyst: Brooke <i>RB</i>

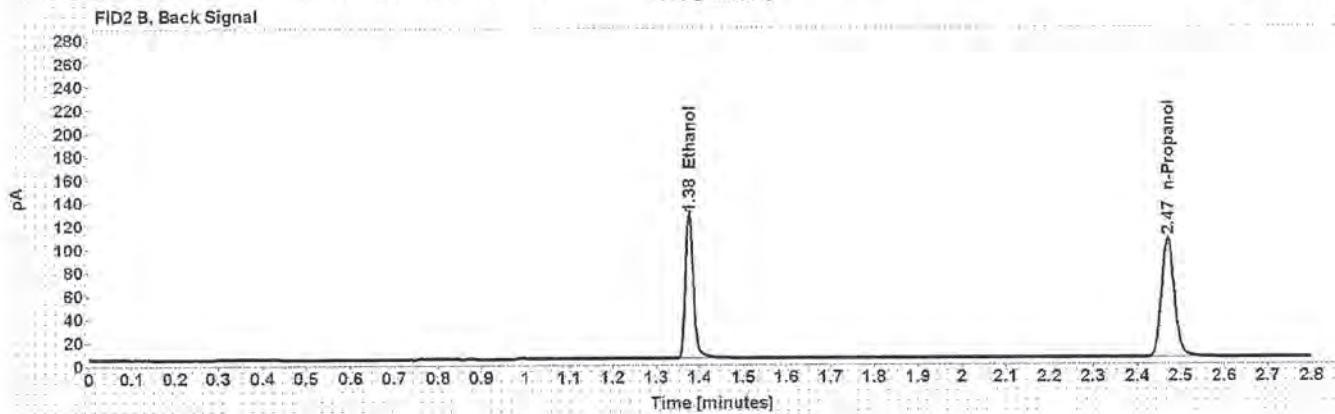
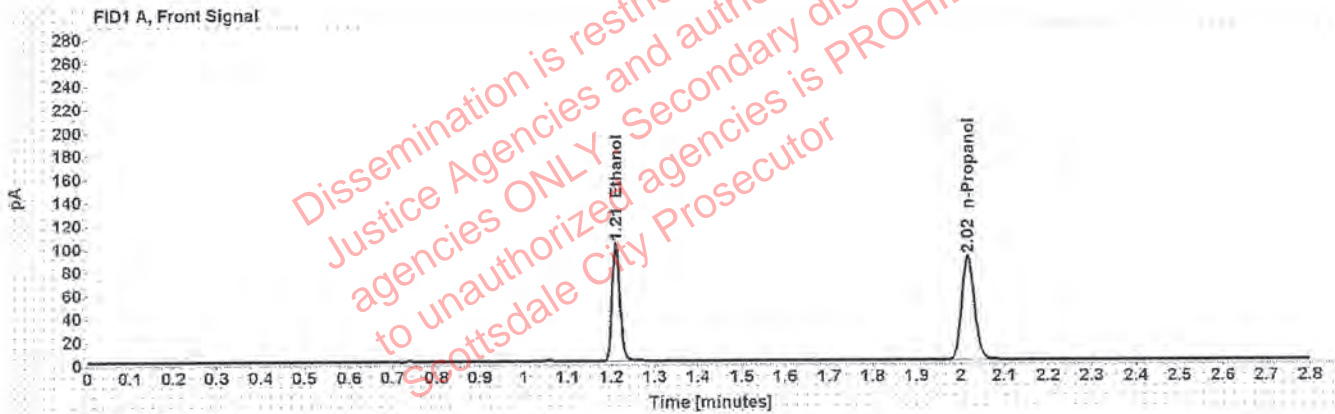


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2012	1.211	129.711
n-Propanol	-----	2.017	178.627

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

Compound	Time (min)	Peak Area
Ethanol	1.376	158.720
n-Propanol	2.470	212.035



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 03102016-A/1	Vial: 20
Description: 0.080	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 2:06:25 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\20.D	Analyst: Brooke <i>RB</i>

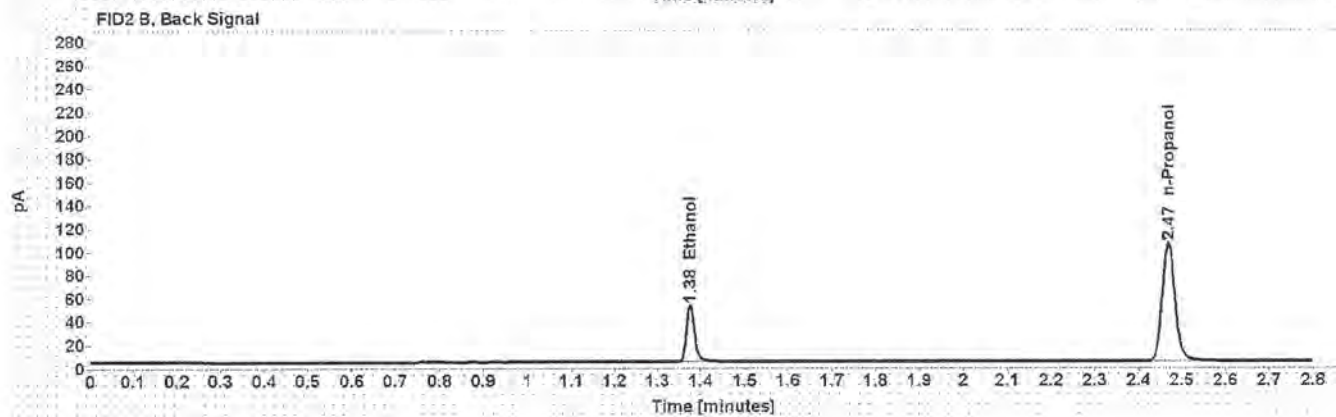
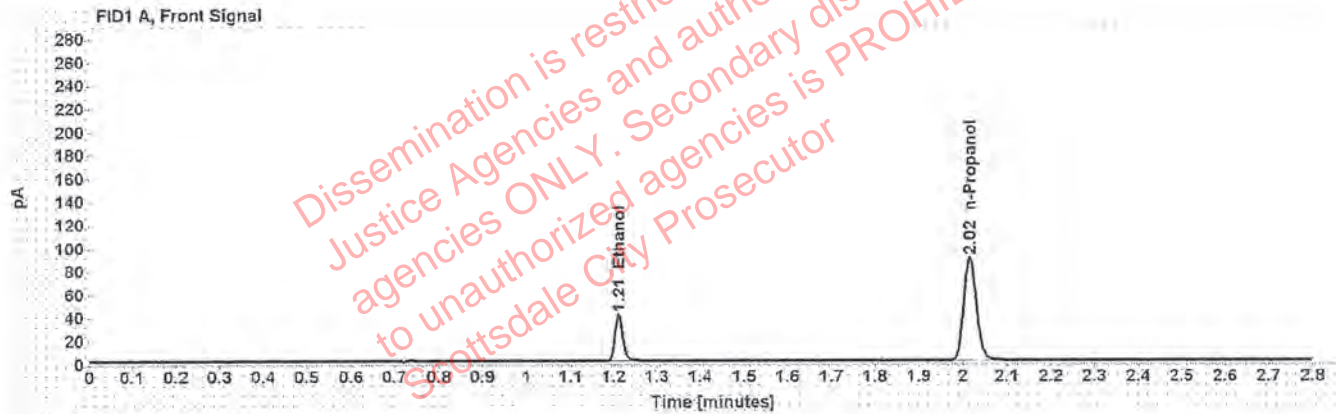


Table 1: FID 1 A (column DB-ALC1)

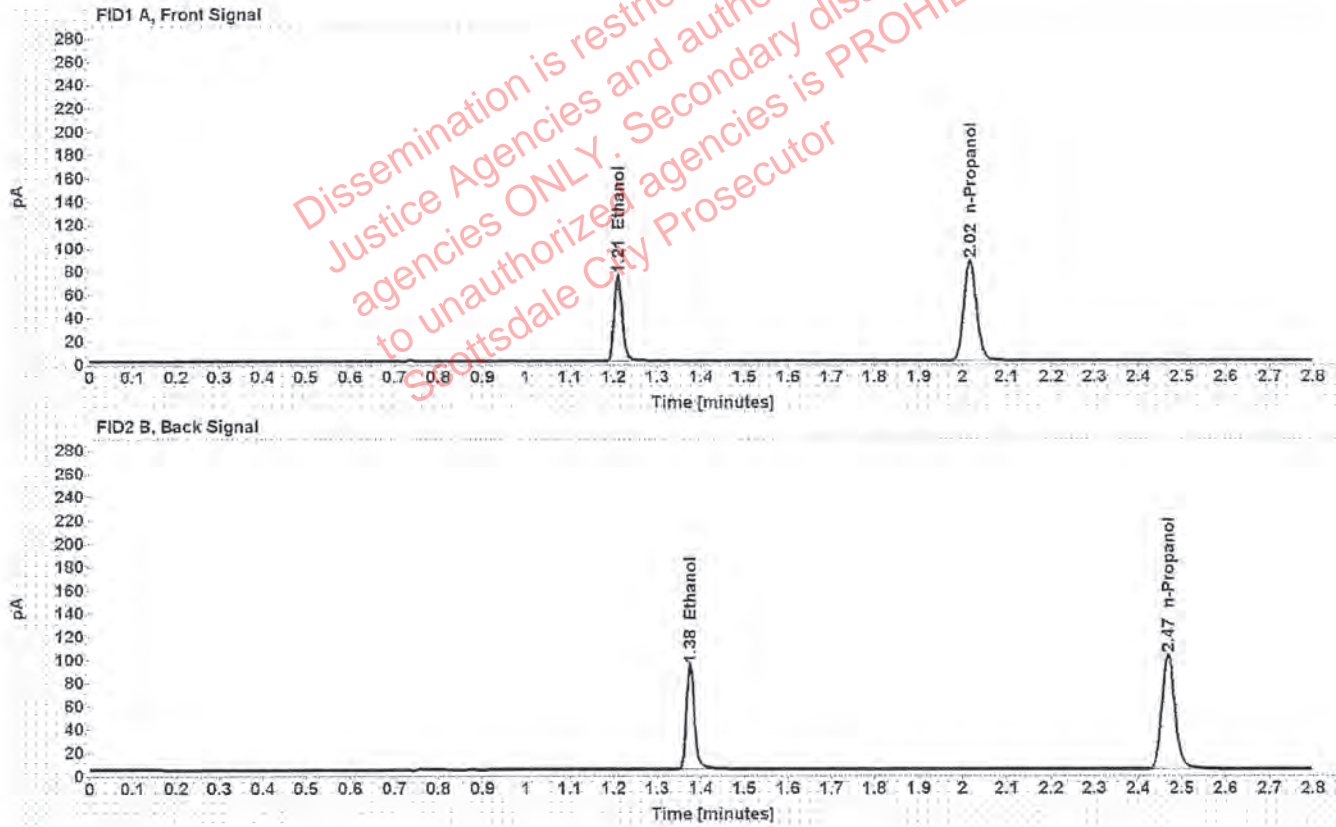
Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0811	1.211	52.035
n-Propanol	-----	2.016	177.886

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

Compound	Time (min)	Peak Area
Ethanol	1.376	62.691
n-Propanol	2.469	211.127

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 14082019-C	Vial: 31
Description: 0.150	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 2:50:54 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\31.D	Analyst: Brooke



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

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1521	1.210	94.912
n-Propanol	-----	2.016	172.910

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

Compound	Time (min)	Peak Area
Ethanol	1.375	115.849
n-Propanol	2.469	205.487

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 11092018-A	Vial: 38
Description: 0.400	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 3:19:09 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\38.D	Analyst: Brooke <i>BR</i>

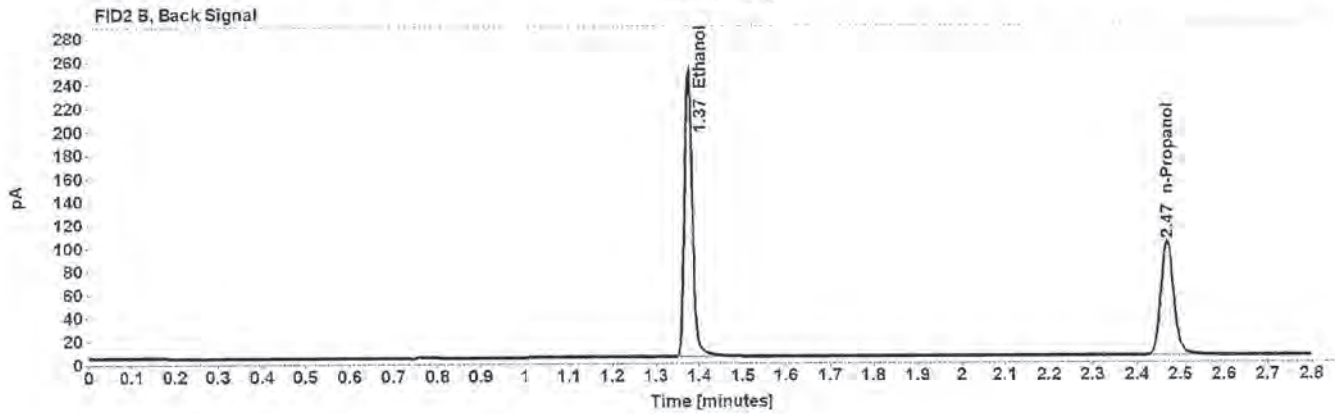
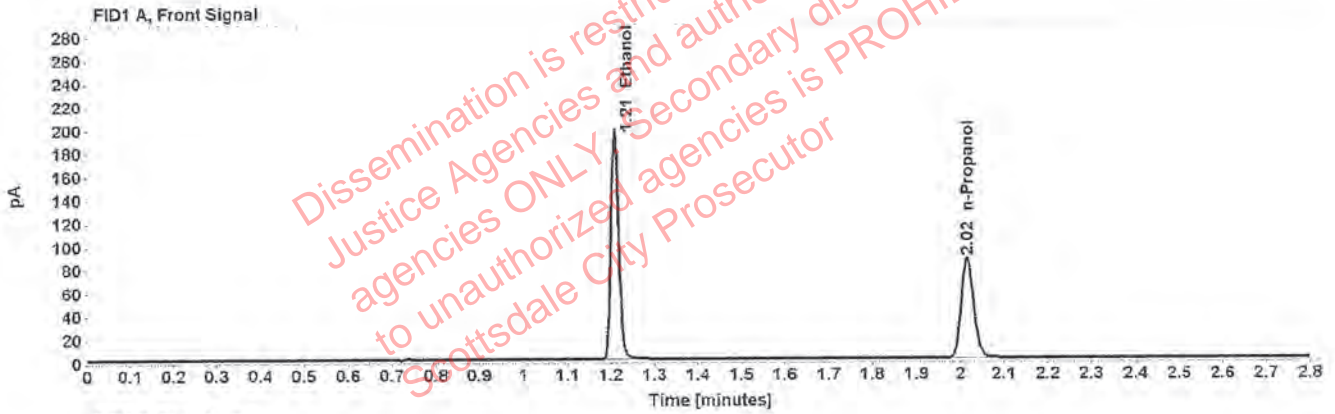


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4056	1.209	252.075
n-Propanol	-----	2.016	172.090

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

Compound	Time (min)	Peak Area
Ethanol	1.375	310.416
n-Propanol	2.469	205.390



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 14082019-B	Vial: 39
Description: 0.040	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 3:23:09 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\39.D	Analyst: Brooke <i>BR</i>

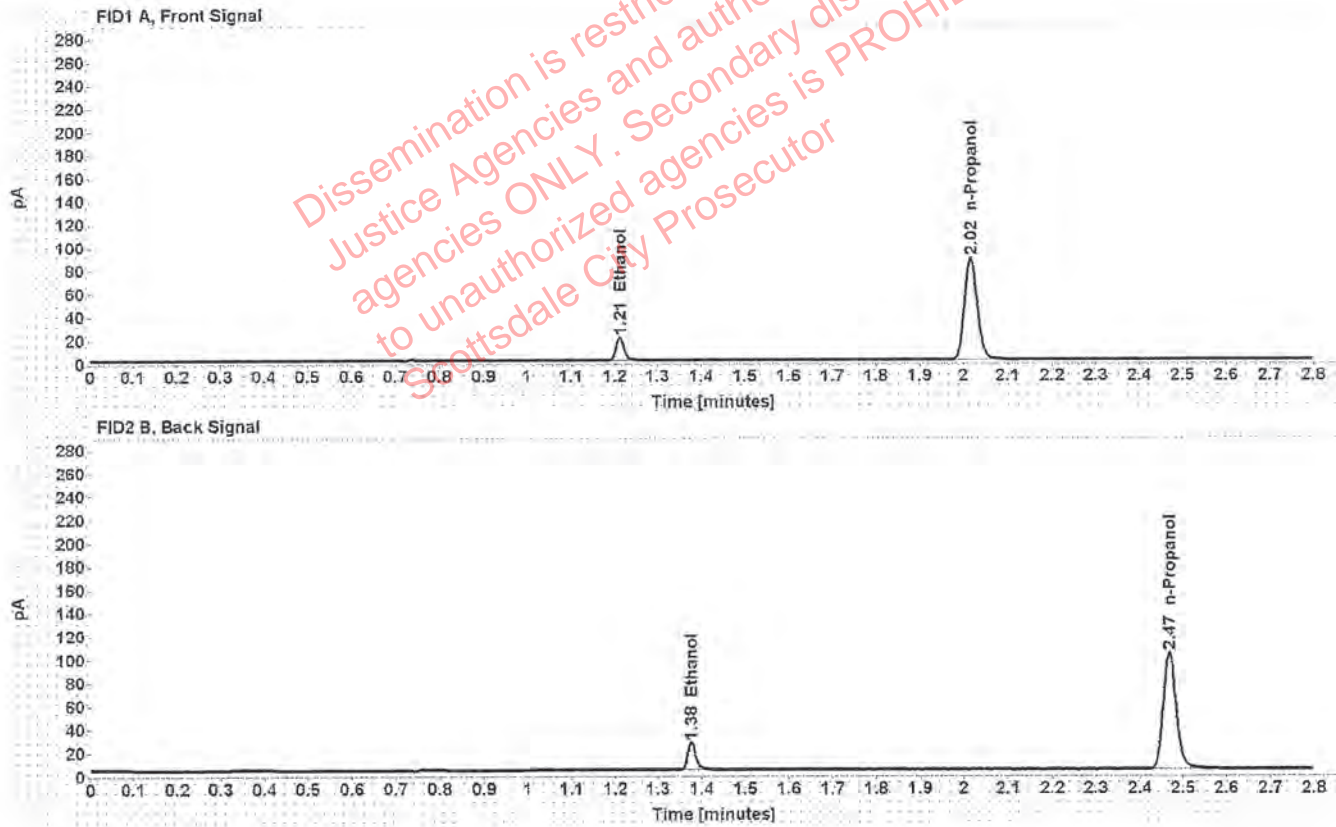


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0401	1.212	25.306
n-Propanol	-----	2.016	175.494

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

Compound	Time (min)	Peak Area
Ethanol	1.376	30.559
n-Propanol	2.469	208.671

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 407041529/13	Vial: 40
Description: 0.198	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 3:27:09 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\40.D	Analyst: Brooke <i>RB</i>

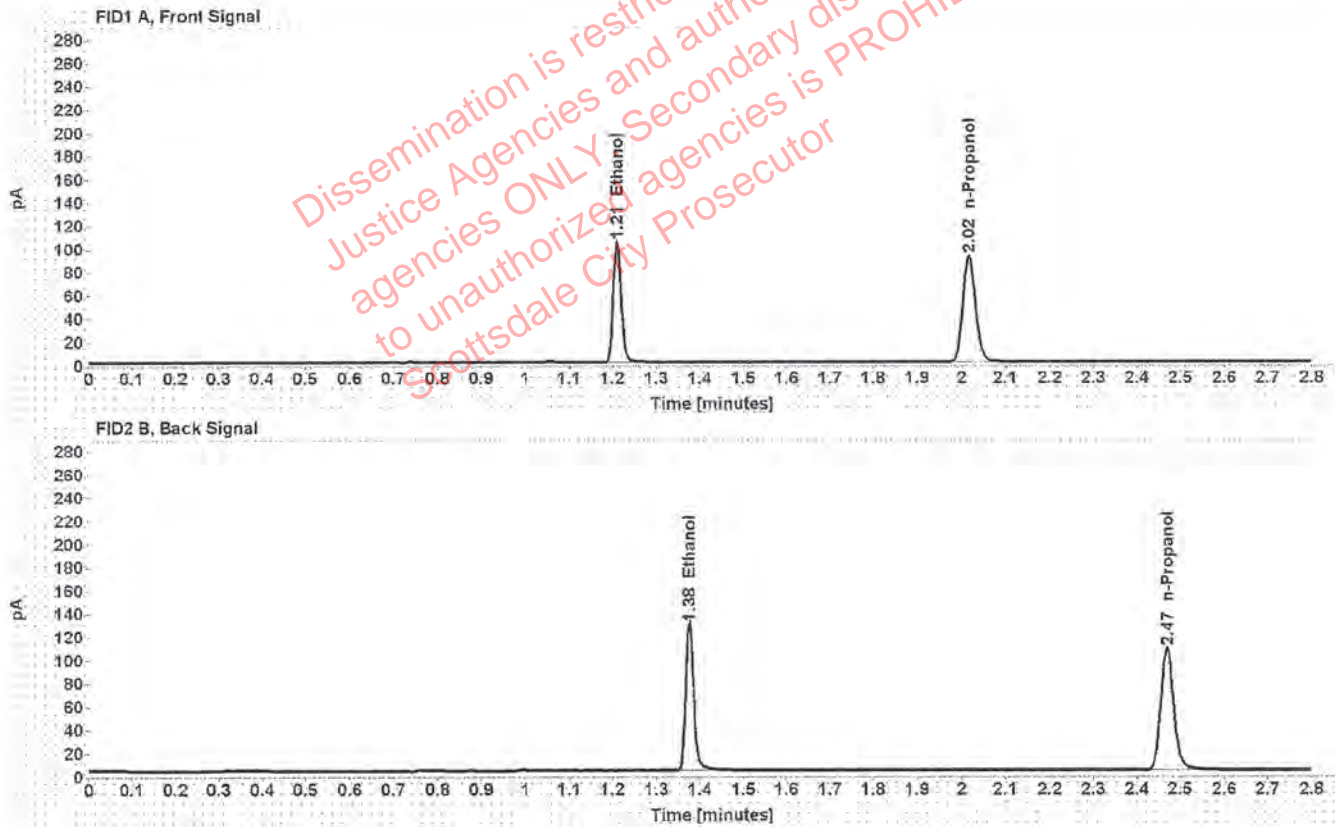


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2012	1.210	132.928
n-Propanol	-----	2.016	183.059

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

Compound	Time (min)	Peak Area
Ethanol	1.376	162.648
n-Propanol	2.470	218.099

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 040919WB	Vial: 41
Description: Negative	LIMS ID:
Method: ethanol quant.M	Sequence: 15Apr20
Instrument: US14173023 CN14160045	Injection date: 4/15/2020 3:31:08 PM
Data file: C:\Chem32\1\Data\Raines\15Apr20\41.D	Analyst: Brooke <i>MB</i>

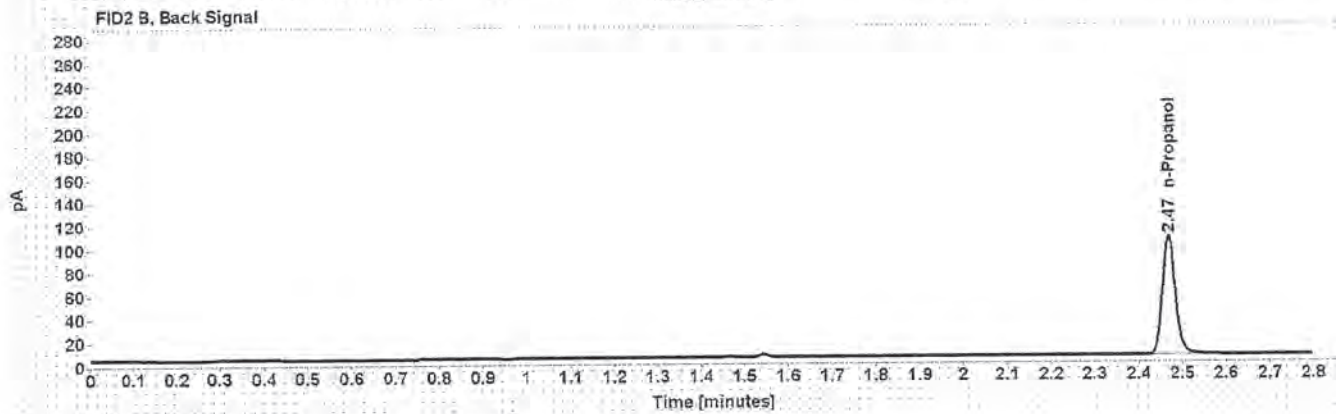
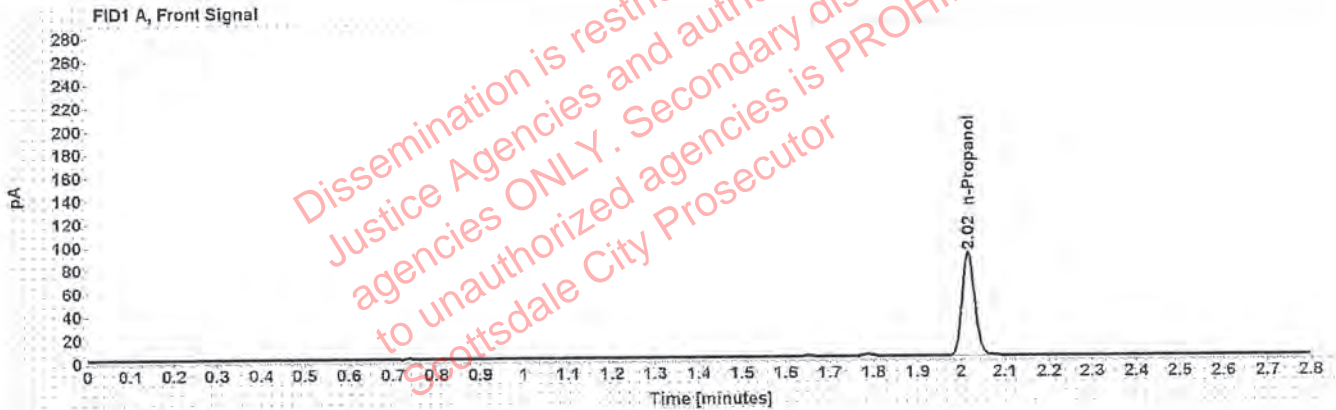


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.016	178.129

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

Compound	Time (min)	Peak Area
n-Propanol	2.469	211.860



# Sequence Summary

AB

Sequence name: 15Apr20      Instrument: US14173023 CN14160045      Analyst: Brooke

Vial	Sample	Description	Type	LIMS ID	Method
1	FN03241604	0.020 calibrator	Calibration		ethanol quant.M
2	FN02271802	0.100 calibrator	Calibration		ethanol quant.M
3	FN06231704	0.200 calibrator	Calibration		ethanol quant.M
4	FN05131606	0.400 calibrator	Calibration		ethanol quant.M
5	121219	Negative	Control		ethanol quant.M
6	070819	Volatiles mix	Control		ethanol quant.M
7	11092018-A	0.400	Control		ethanol quant.M
8	14082019-B	0.040	Control		ethanol quant.M
9	407041529/13	0.198	Control		ethanol quant.M
10	1314405		Sample		ethanol quant.M
11	1314405		Sample		ethanol quant.M
12	1315786		Sample		ethanol quant.M
13	1315786		Sample		ethanol quant.M
14	1316432		Sample		ethanol quant.M
15	1316432		Sample		ethanol quant.M
16	1316731		Sample		ethanol quant.M
17	1316731		Sample		ethanol quant.M
18	1313438		Sample		ethanol quant.M
19	1313438		Sample		ethanol quant.M
20	03102016-A/1	0.080	Control		ethanol quant.M
21	1296305		Sample		ethanol quant.M
22	1296305		Sample		ethanol quant.M
23	1313807		Sample		ethanol quant.M
24	1313807		Sample		ethanol quant.M
25	1314648		Sample		ethanol quant.M
26	1314648		Sample		ethanol quant.M
27	1314387		Sample		ethanol quant.M
28	1314387		Sample		ethanol quant.M
29	33501AM		Sample		ethanol quant.M
30	33501AM		Sample		ethanol quant.M
31	14082019-C	0.150	Control		ethanol quant.M
32	1314133		Sample		ethanol quant.M
33	1314133		Sample		ethanol quant.M
34	1315279		Sample		ethanol quant.M
35	1315279		Sample		ethanol quant.M
36	1306868		Sample		ethanol quant.M
37	1306868		Sample		ethanol quant.M
38	11092018-A	0.400	Control		ethanol quant.M
39	14082019-B	0.040	Control		ethanol quant.M
40	407041529/13	0.198	Control		ethanol quant.M
41	040919WB	Negative	Control		ethanol quant.M

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# Scottsdale Police Department Crime Laboratory Summary of Cases

PB

SEQUENCE NAME: 15Apr20

ANALYST: Brooke

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.3291	0.3241	0.32660	0.77	0.00250
12 13	0.2161	0.2201	0.21810	0.92	0.00200
14 15	0.0887	0.0882	0.08845	0.28	0.00025
16 17	0.2390	0.2421	0.24055	0.64	0.00155
18 19	0.1812	0.1816	0.18140	0.11	0.00020
21 22	0.1841	0.1832	0.18365	0.25	0.00045
23 24	0.1818	0.1828	0.18230	0.27	0.00050
25 26	0.2081	0.2089	0.20850	0.19	0.00040
27 28	0.1264	0.1252	0.12580	0.48	0.00060
29 30	0.2086	0.2086	0.20860	0.00	0.00000
32 33	0.1496	0.1480	0.14880	0.54	0.00080
34 35	0.1865	0.1860	0.18625	0.13	0.00025
36 37	0.0000	0.0000	0.00000	0.00	0.00000

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

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## Scottsdale Forensic Lab Blood Alcohol Pipetting Log

ANALYST: Brooke

RS

SEQUENCE: 15Apr20

Instrument Position	Headspace Vial 1	Headspace Vial 2	Blood Tube	Barcode Match
Vials 10 and 11	1314405	1314405	1314405	Yes
Vials 12 and 13	1315786	1315786	1315786	Yes
Vials 14 and 15	1316432	1316432	1316432	Yes
Vials 16 and 17	1316731	1316731	1316731	Yes
Vials 18 and 19	1313438	1313438	1313438	Yes
Vials 21 and 22	1296305	1296305	1296305	Yes
Vials 23 and 24	1313807	1313807	1313807	Yes
Vials 25 and 26	1314648	1314648	1314648	Yes
Vials 27 and 28	1314387	1314387	1314387	Yes
Vials 29 and 30	33501AM	33501AM	33501AM	Yes
Vials 32 and 33	1314133	1314133	1314133	Yes
Vials 34 and 35	1315279	1315279	1315279	Yes
Vials 36 and 37	1306868	1306868	1306868	Yes



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1314405	Vial:	10
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 1:25:54 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\10.D	Analyst:	Brooke

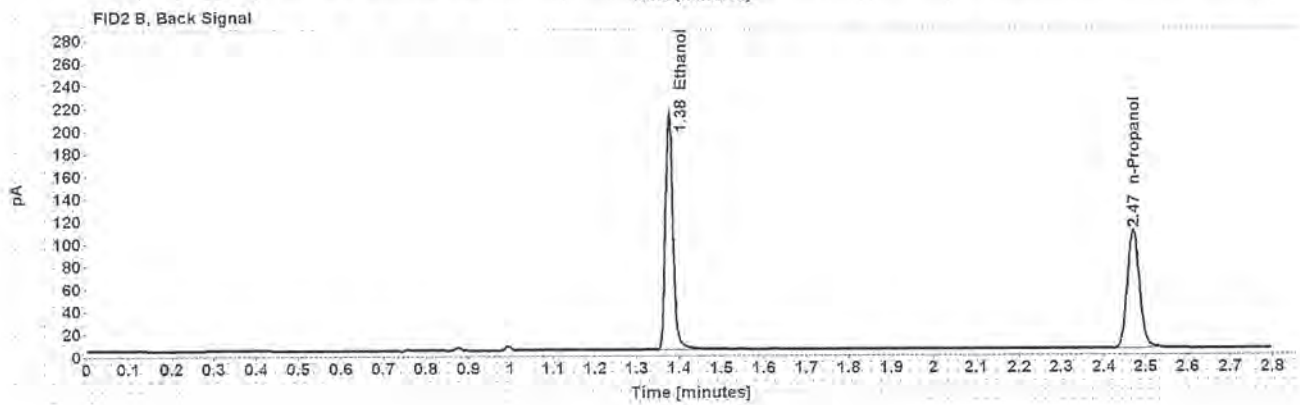
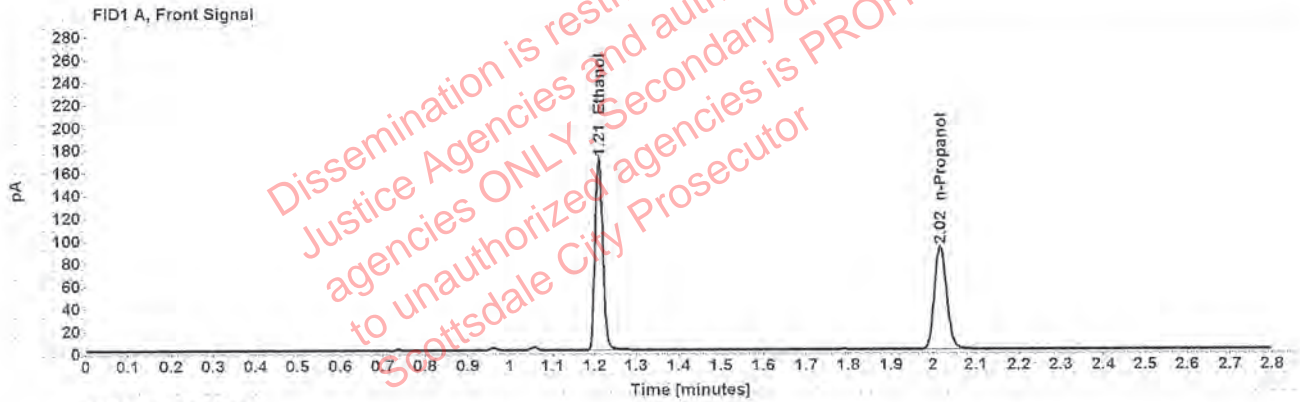


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3291	1.210	216.076
n-Propanol	-----	2.017	181.861

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

Compound	Time (min)	Peak Area
Ethanol	1.376	266.161
n-Propanol	2.470	215.401

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1314405	Vial:	11
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 1:29:54 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\11.D	Analyst:	Brooke

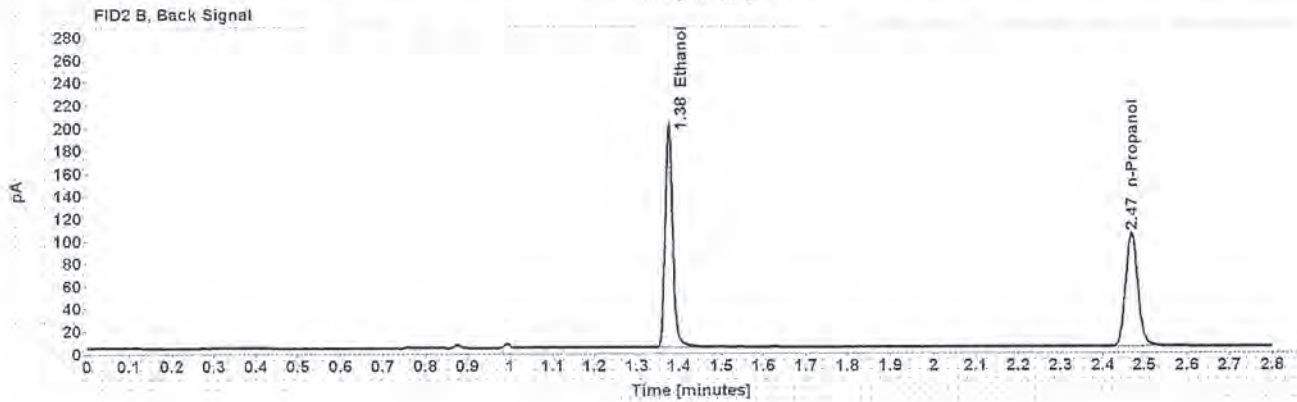
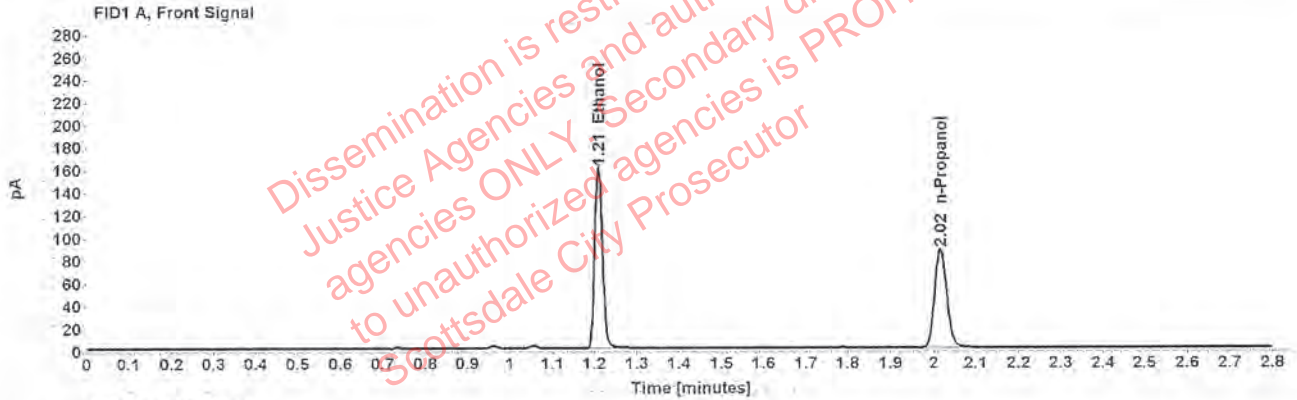


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3241	1.210	204.030
n-Propanol	-----	2.016	174.380

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

Compound	Time (min)	Peak Area
Ethanol	1.375	251.181
n-Propanol	2.469	206.448

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1315786	Vial:	12
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 1:33:55 PM
Data file:	C:\Chem32\11\Data\Raines\15Apr20\12.D	Analyst:	Brooke

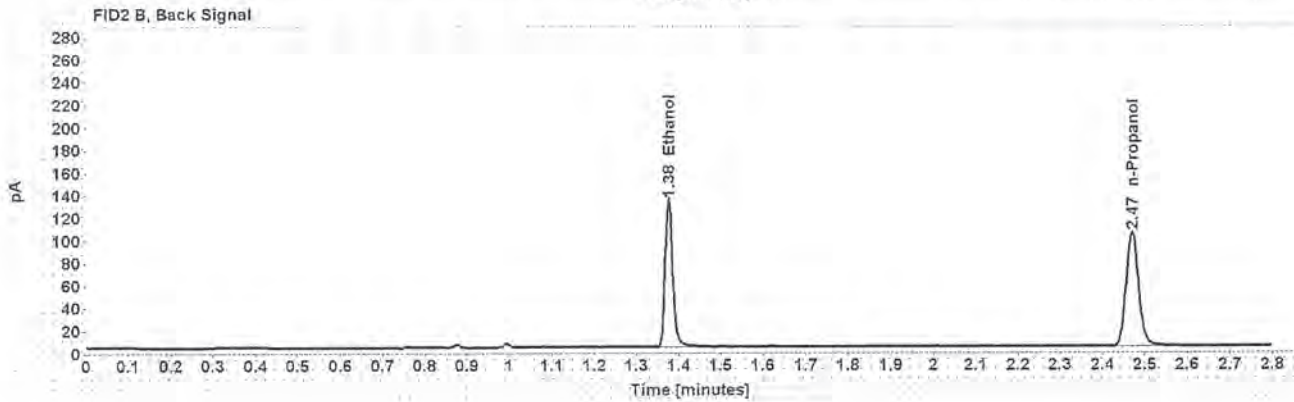
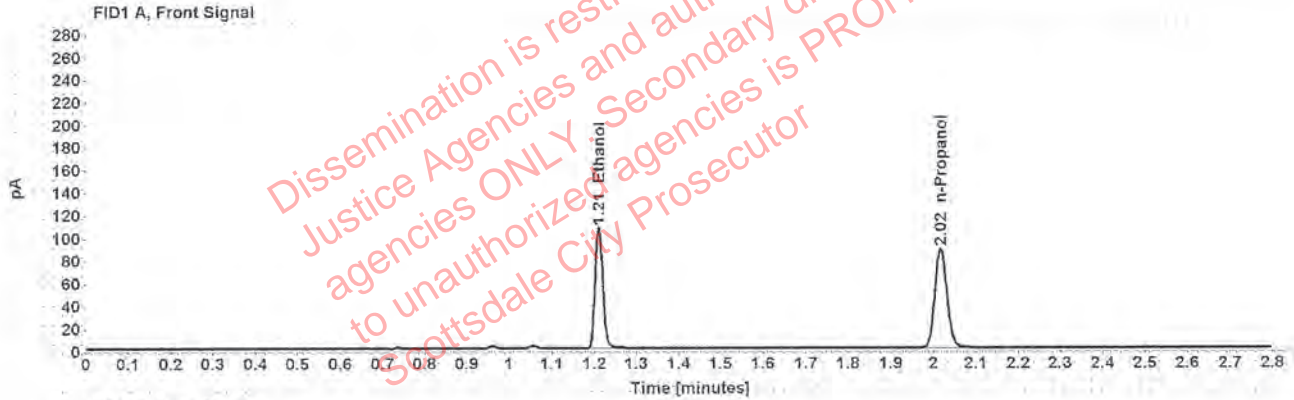


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2161	1.211	137.018
n-Propanol	-----	2.017	175.642

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

Compound	Time (min)	Peak Area
Ethanol	1.376	168.876
n-Propanol	2.470	208.921



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1315786	Vial:	13
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 1:38:10 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\13.D	Analyst:	Brooke

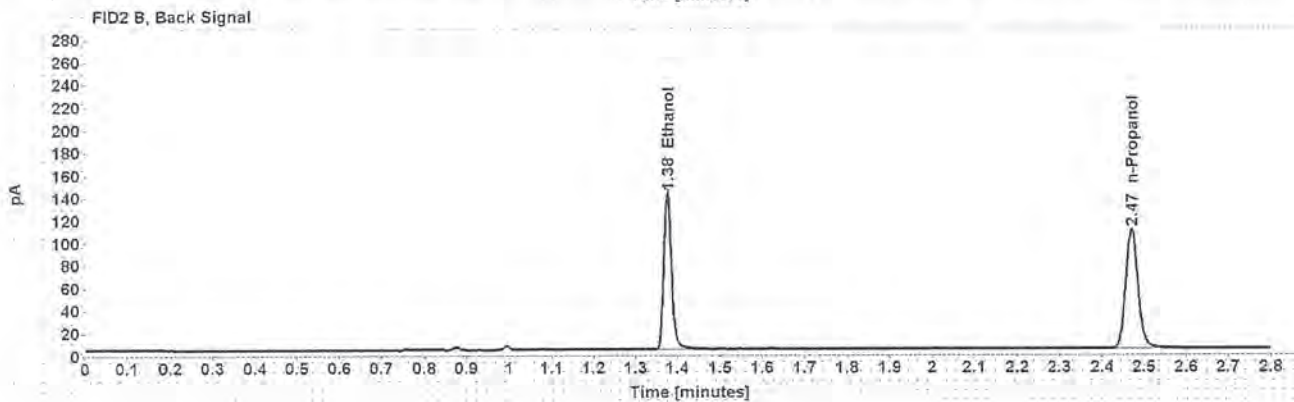
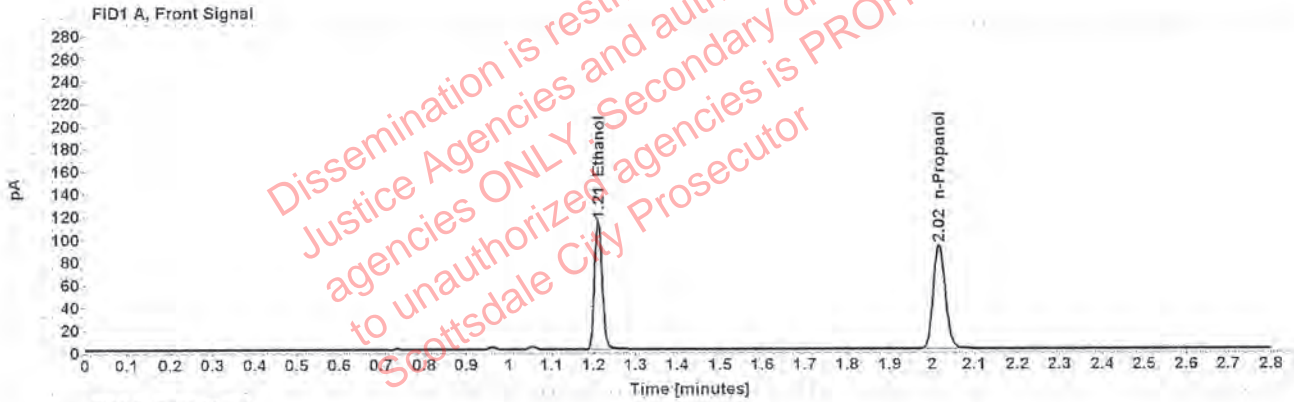


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2201	1.211	145,805
n-Propanol	-----	2.017	183,538

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

Compound	Time (min)	Peak Area
Ethanol	1.376	178,995
n-Propanol	2.470	218,044

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1316432	Vial:	14
Description:	██████████	LIMS ID:	██████████
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 1:42:10 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\14.D	Analyst:	Brooke

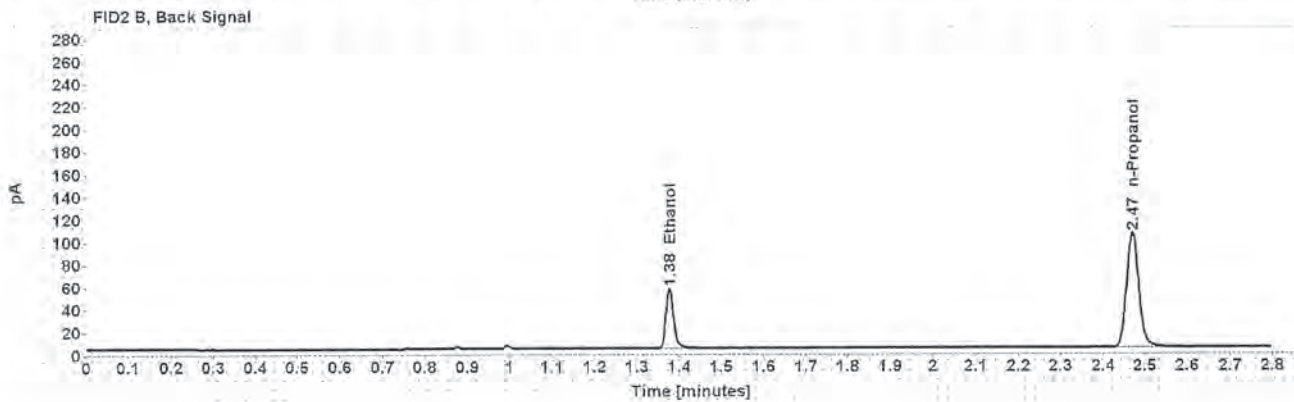
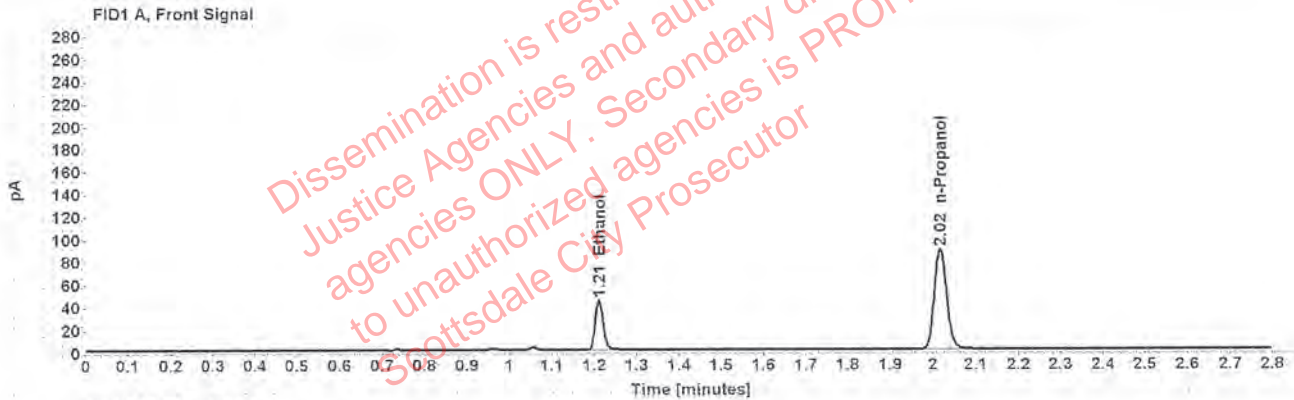


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0887	1.211	56.757
n-Propanol	-----	2.017	177.573

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

Compound	Time (min)	Peak Area
Ethanol	1.377	68.136
n-Propanol	2.470	210.681

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1316432	Vial:	15
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 1:46:09 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\15.D	Analyst:	Brooke

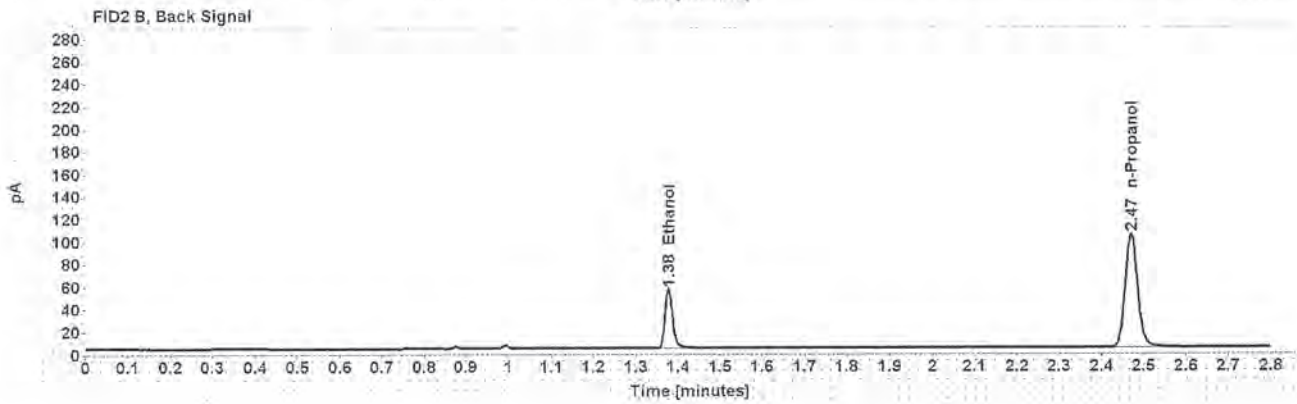
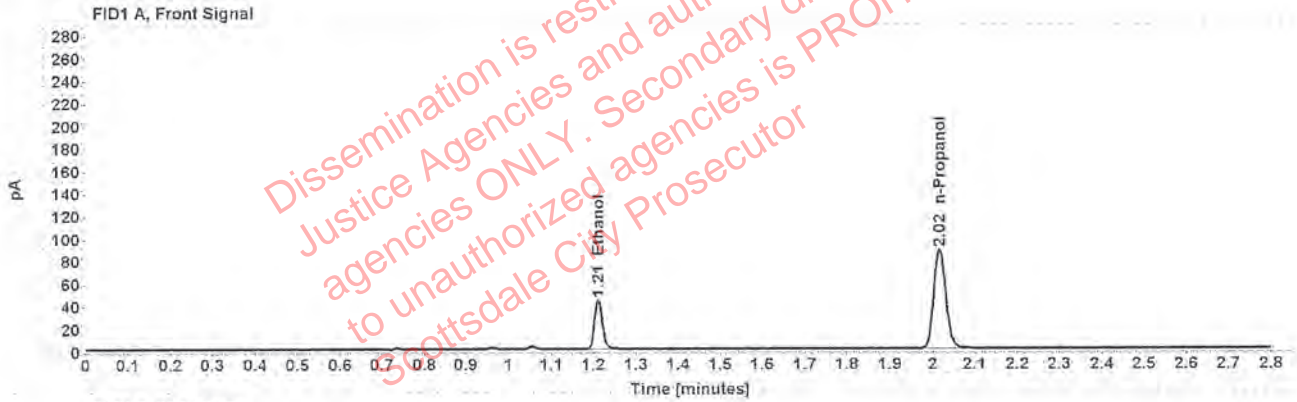


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0882	1.211	55.967
n-Propanol	-----	2.017	175.968

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

Compound	Time (min)	Peak Area
Ethanol	1.377	67.297
n-Propanol	2.470	208.669



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1316731	Vial:	16
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 1:50:09 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\16.D	Analyst:	Brooke

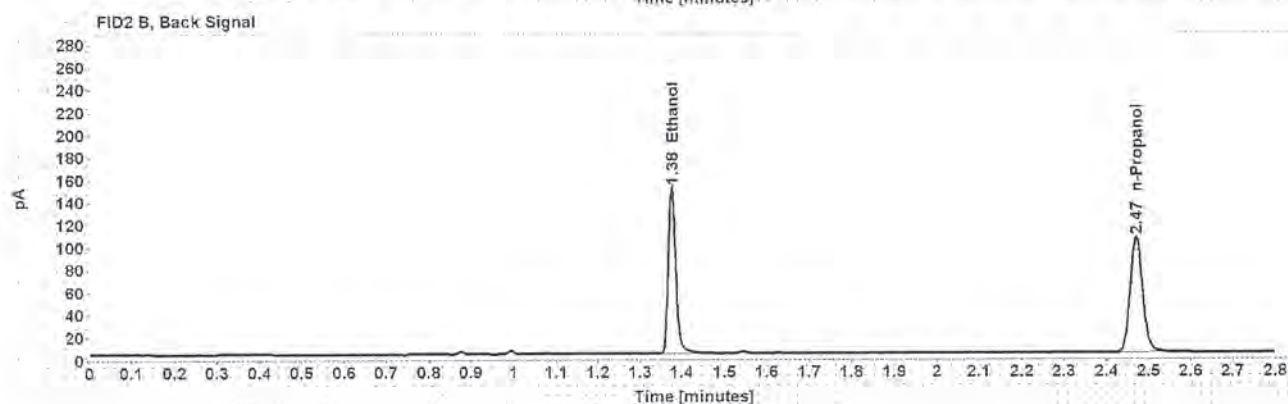
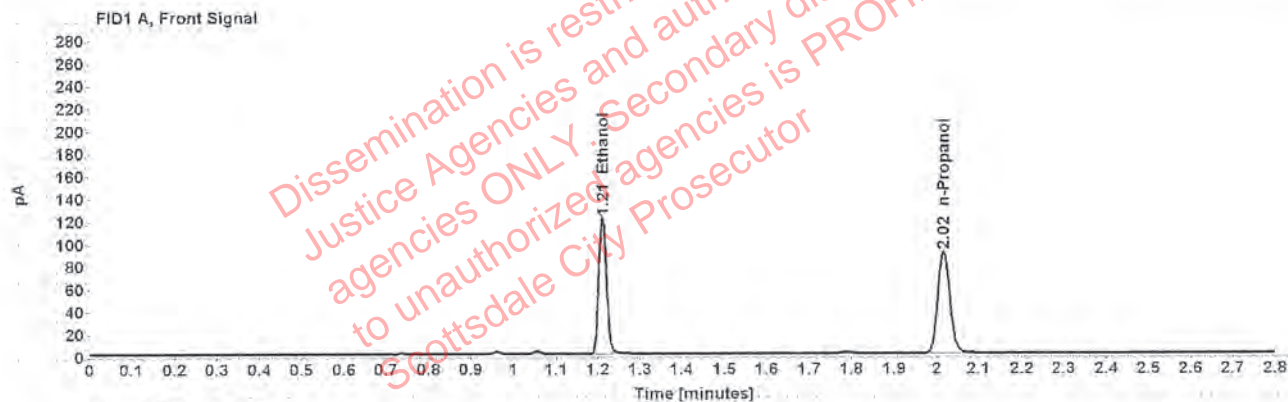


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2390	1.210	154.570
n-Propanol	---	2.017	179.161

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

Compound	Time (min)	Peak Area
Ethanol	1.376	188.502
n-Propanol	2.470	211.740

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1316731	Vial:	17
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 1:54:09 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\17.D	Analyst:	Brooke

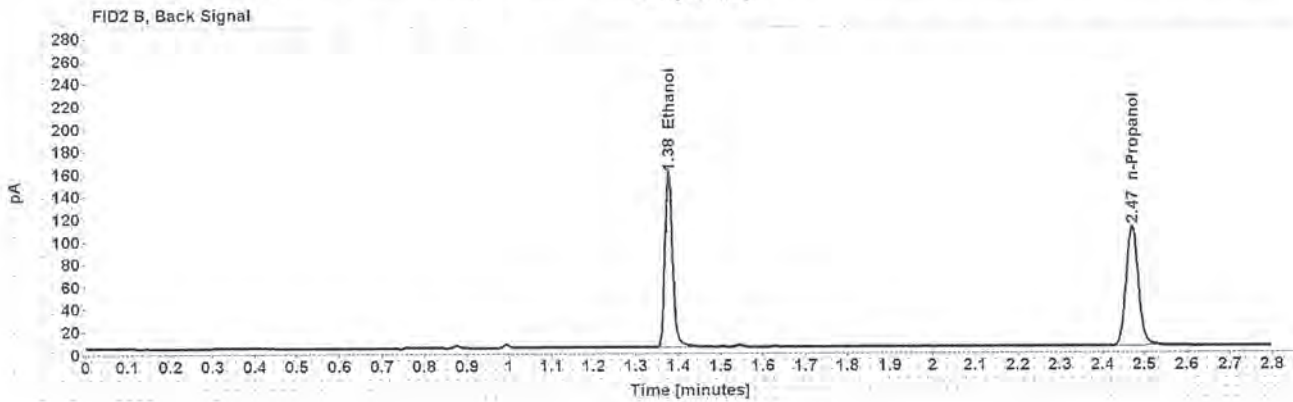
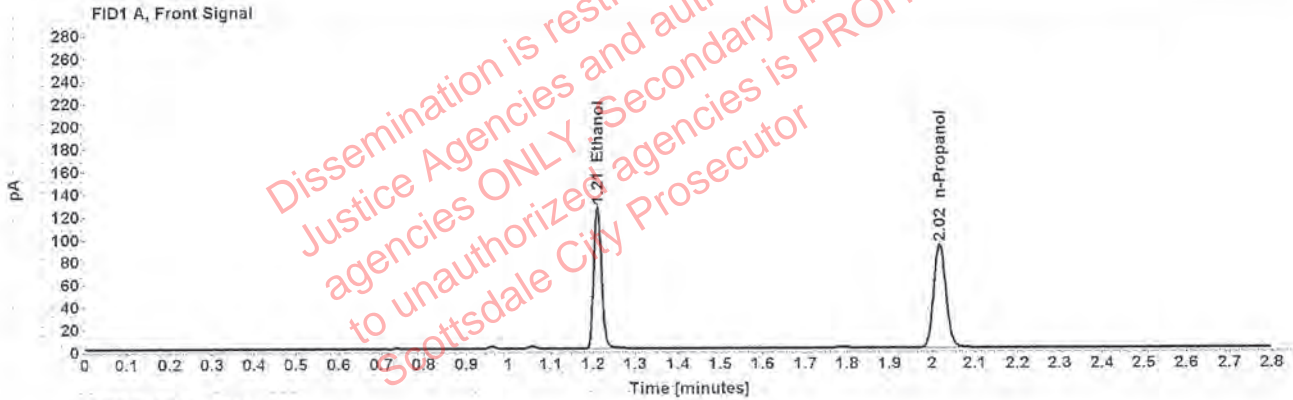


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2421	1.210	161.624
n-Propanol	-----	2.017	184.910

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

Compound	Time (min)	Peak Area
Ethanol	1.376	196.821
n-Propanol	2.470	218.903

Case: [REDACTED] User: pbrooke 4/16/2020

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1313438	Vial:	18
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 1:58:10 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\18.D	Analyst:	Brooke

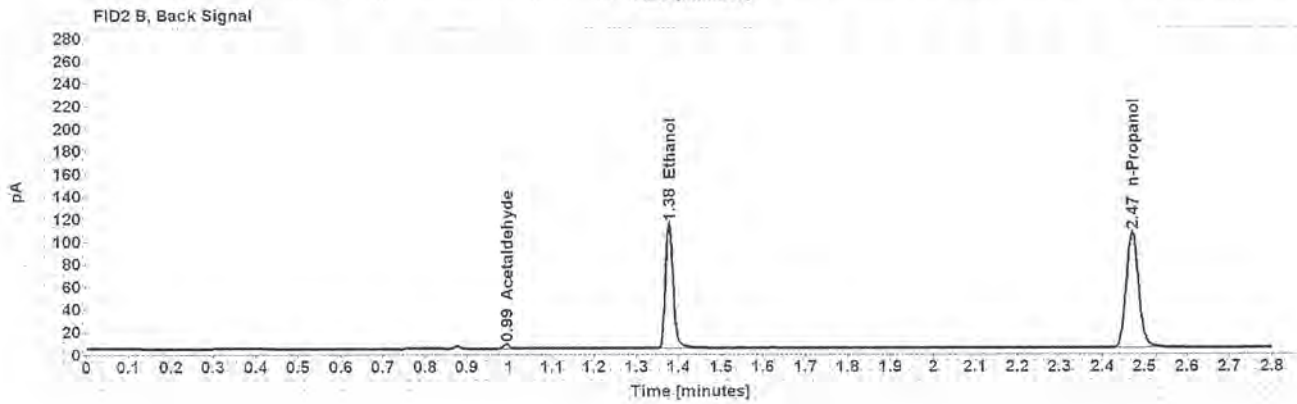
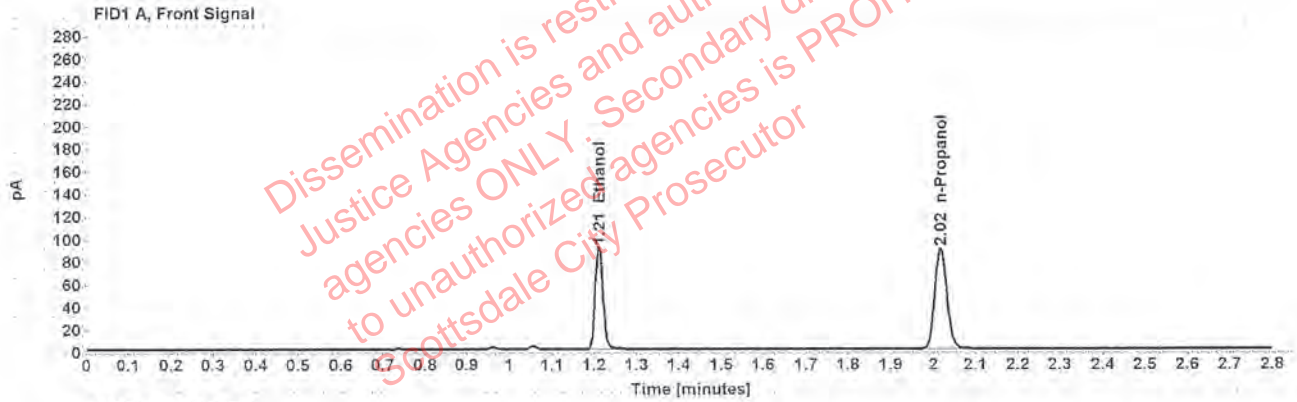


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1812	1.211	116.597
n-Propanol	-----	2.017	178.287

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	3.783
Ethanol	1.377	143.308
n-Propanol	2.470	211.467



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1313438	Vial:	19
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:02:25 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\19.D	Analyst:	Brooke

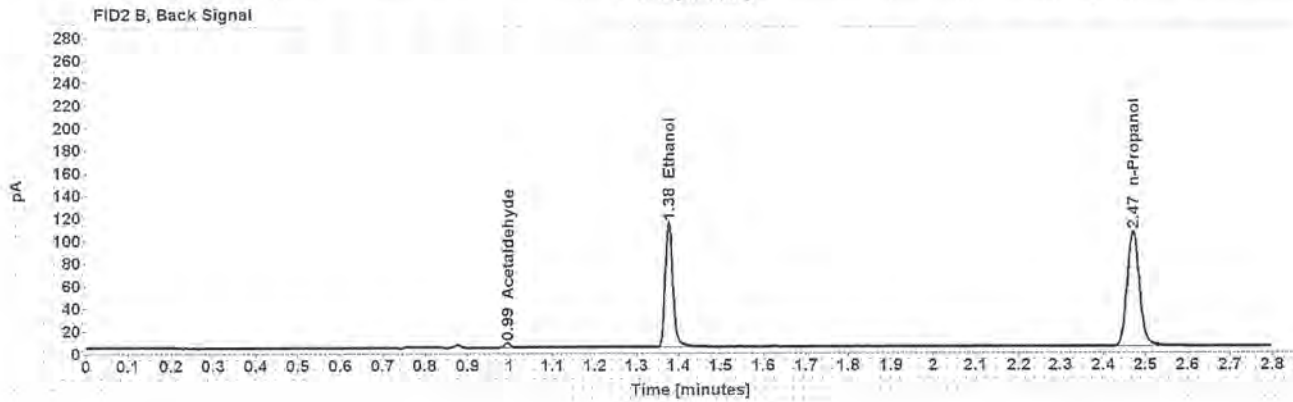
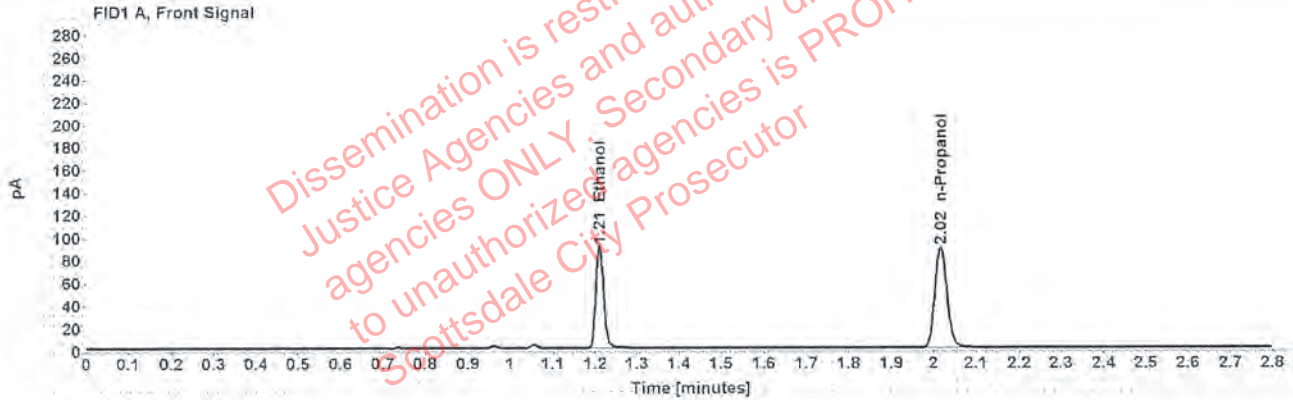


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1816	1.211	116.184
n-Propanol	-----	2.017	177.232

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	3.811
Ethanol	1.376	142.730
n-Propanol	2.470	210.132

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1296305	Vial:	21
Description:	[redacted]	LIMS ID:	[redacted]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:10:24 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\21.D	Analyst:	Brooke

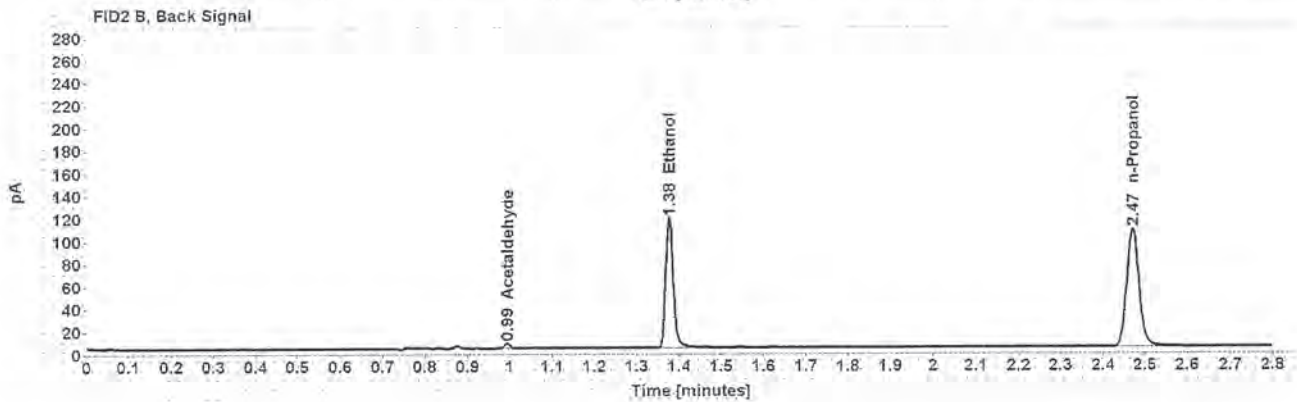
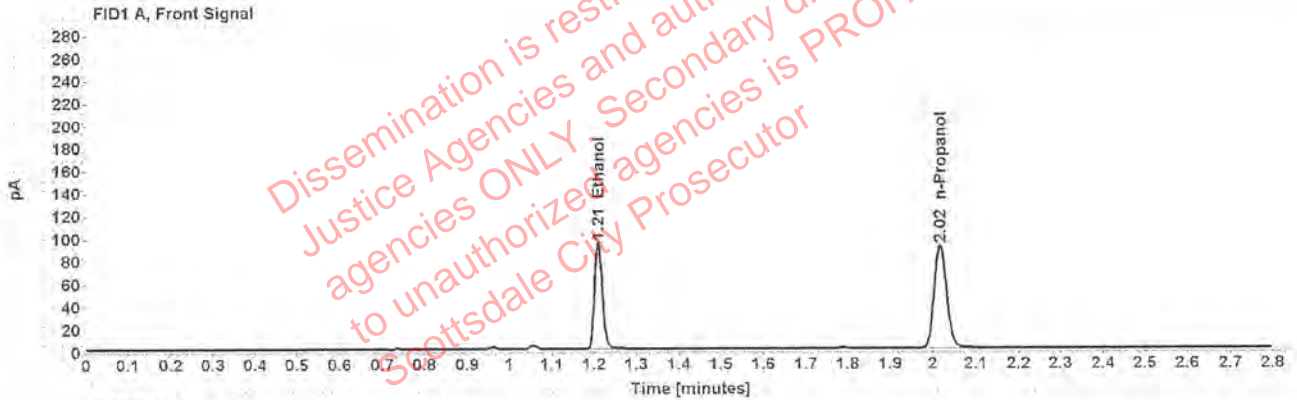


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1841	1.211	121.051
n-Propanol	-----	2.017	182.162

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.230
Ethanol	1.376	148.977
n-Propanol	2.470	216.727

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1296305	Vial:	22
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:14:24 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\22.D	Analyst:	Brooke

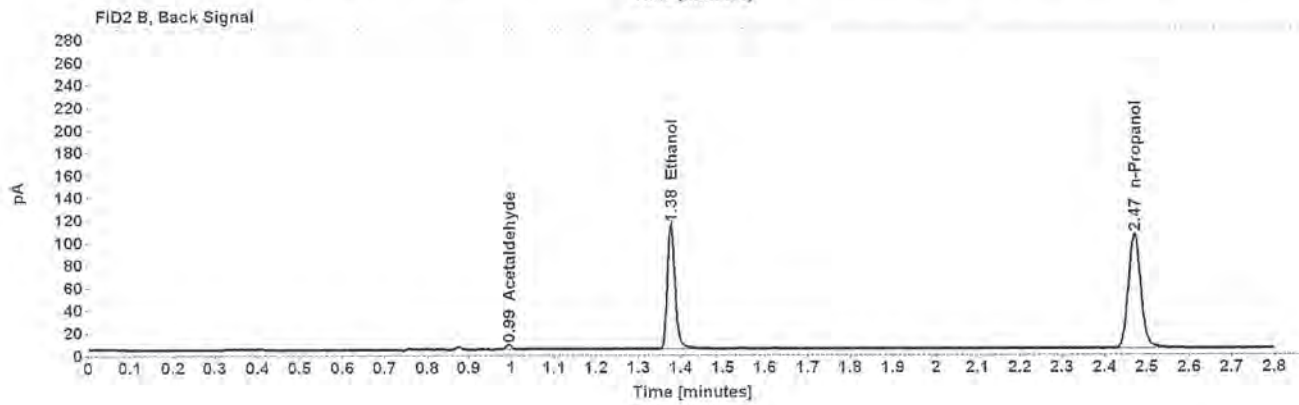
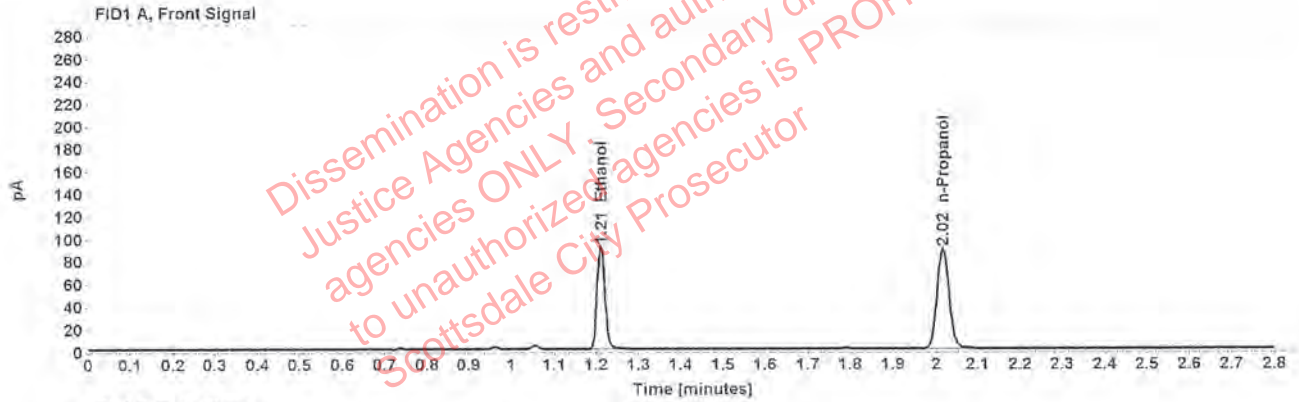


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1832	1.211	116.827
n-Propanol	-----	2.017	176.715

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.117
Ethanol	1.376	143.672
n-Propanol	2.470	210.732



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1313807	Vial:	23
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:18:24 PM
Data file:	C:\Chem3211\Data\Raines\15Apr20\23.D	Analyst:	Brooke

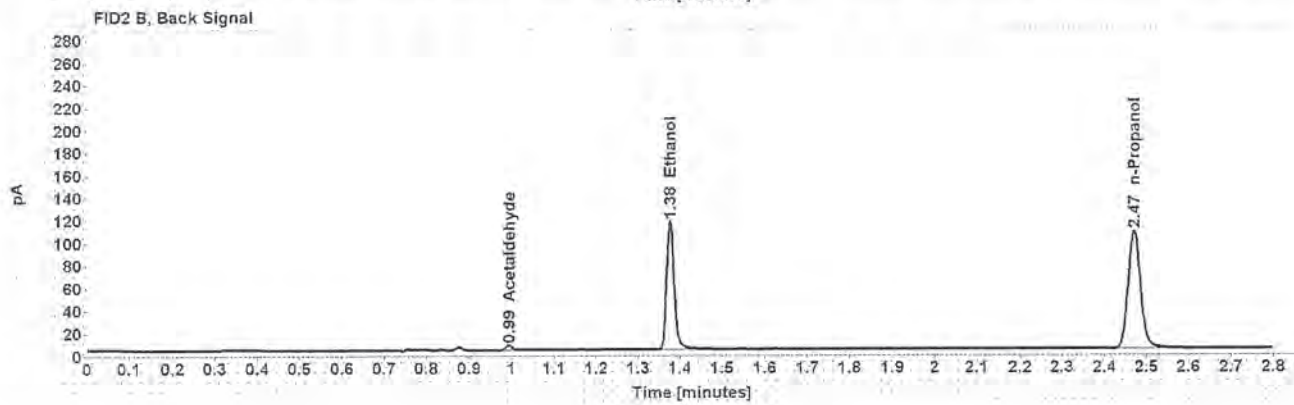
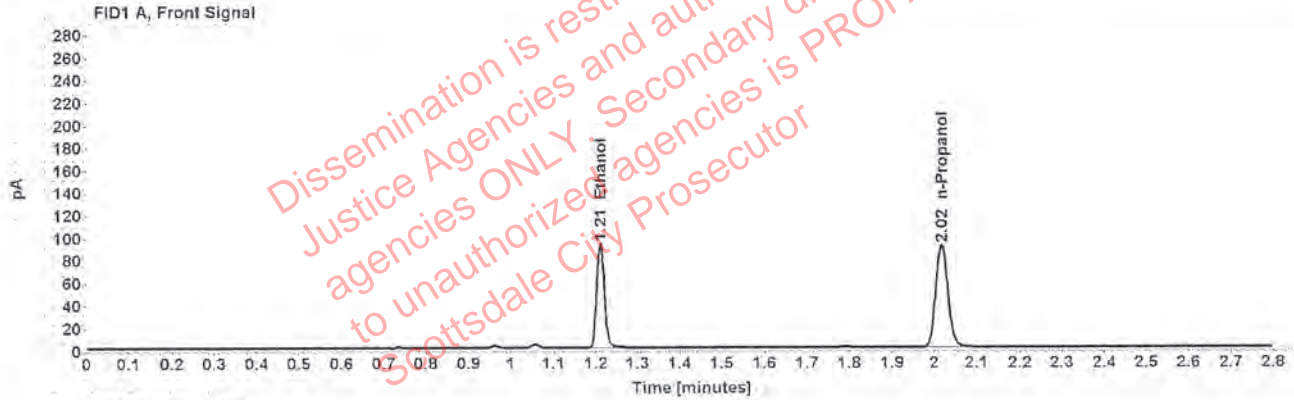


Table 1; FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1818	1.211	119.190
n-Propanol	-----	2.017	181.701

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.202
Ethanol	1.377	146.983
n-Propanol	2.470	216.601

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1313807	Vial:	24
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:22:25 PM
Data file:	C:\Chem3211\Data\Raines\15Apr20\24.D	Analyst:	Brooke

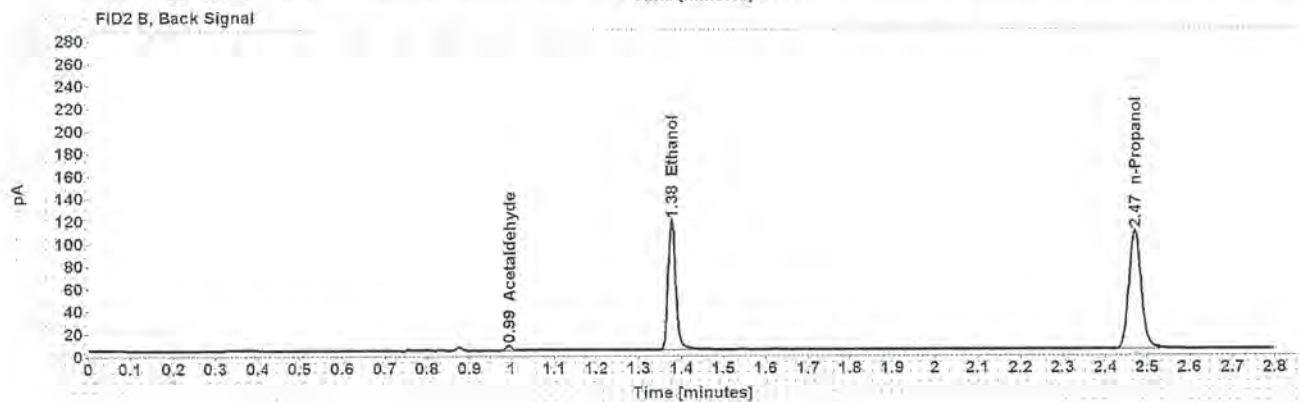
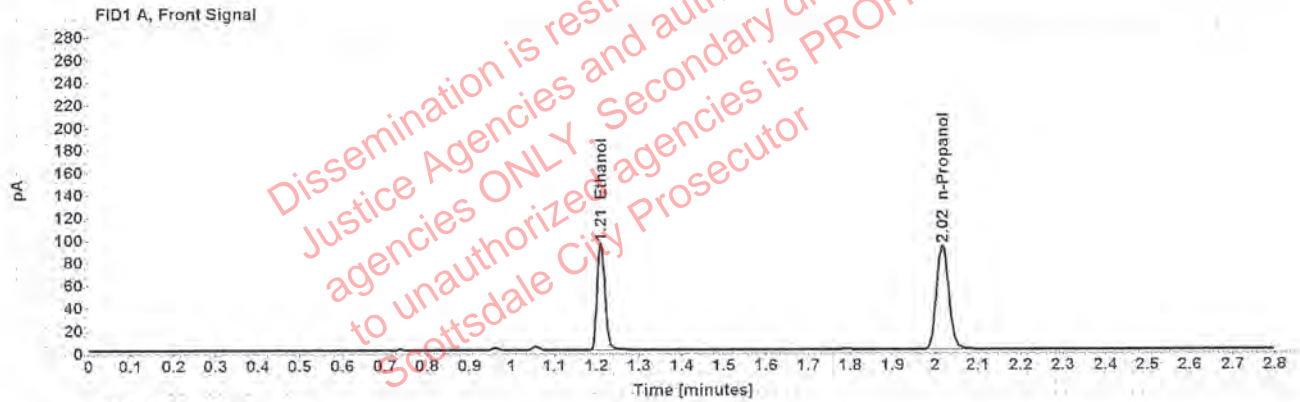


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1828	1.211	121.178
n-Propanol	-----	2.017	183.694

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.259
Ethanol	1.376	149.192
n-Propanol	2.470	219.049

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1314648	Vial:	25
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:26:39 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\25.D	Analyst:	Brooke

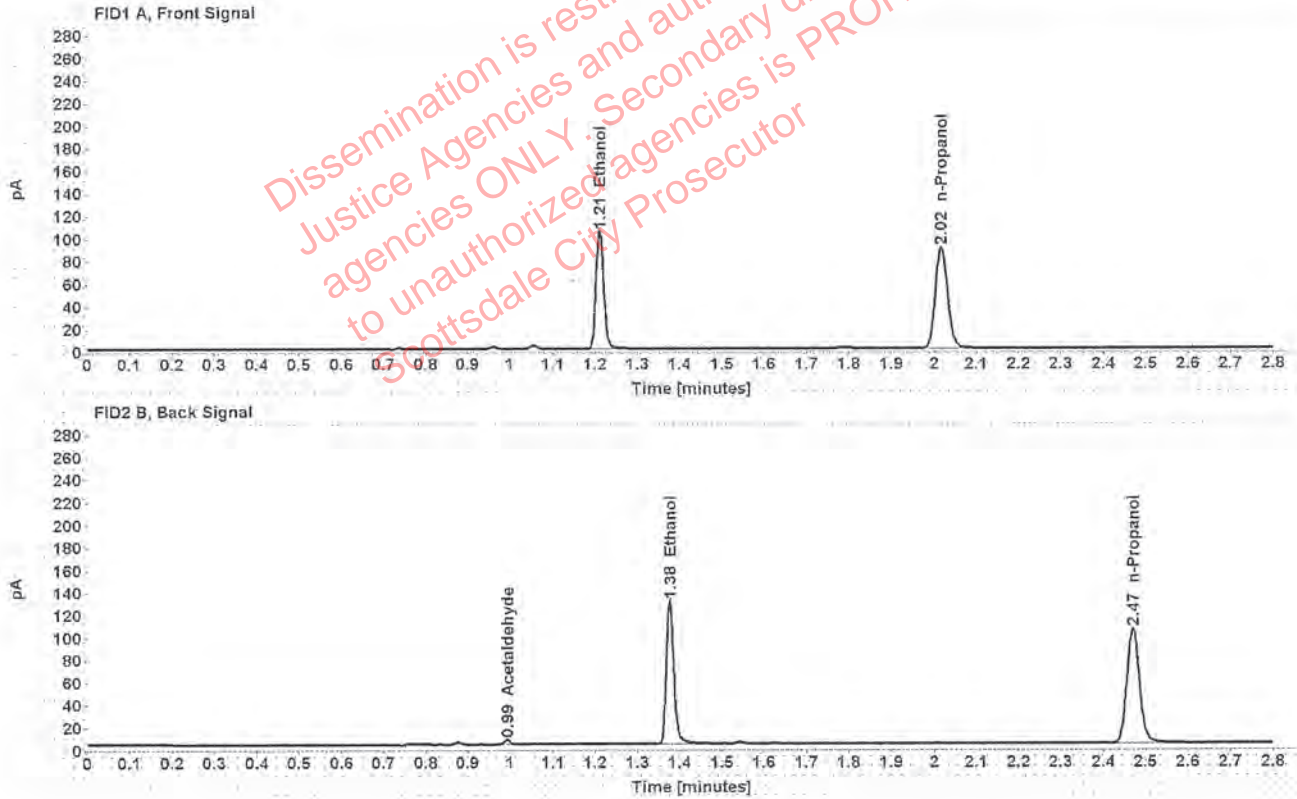


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2081	1.211	133.917
n-Propanol	—	2.017	178.247

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	3.875
Ethanol	1.376	164.620
n-Propanol	2.470	211.372



Case: [REDACTED] User: pbrooke 4/16/2020

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1314648	Vial:	26
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:30:39 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\26.D	Analyst:	Brooke

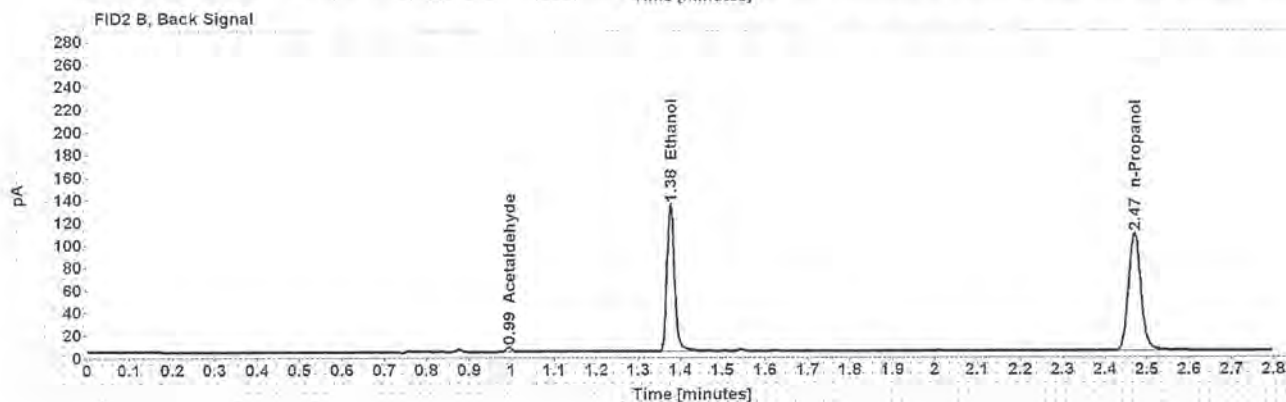
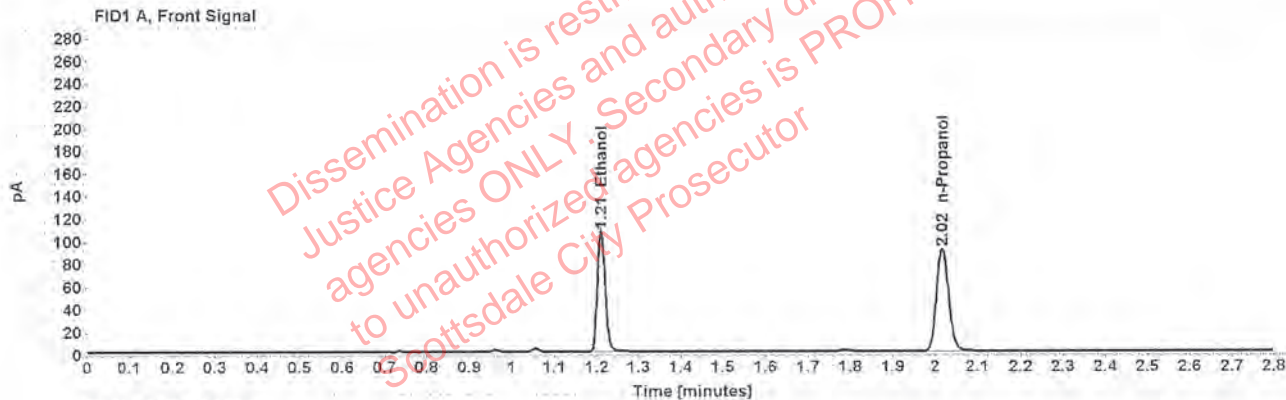


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2089	1.211	137.076
n-Propanol	-----	2.017	181.748

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	3.957
Ethanol	1.376	168.699
n-Propanol	2.470	216.563

Case: [REDACTED] User: pbrooke 4/16/2020

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1314387	Vial:	27
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:34:40 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\27.D	Analyst:	Brooke

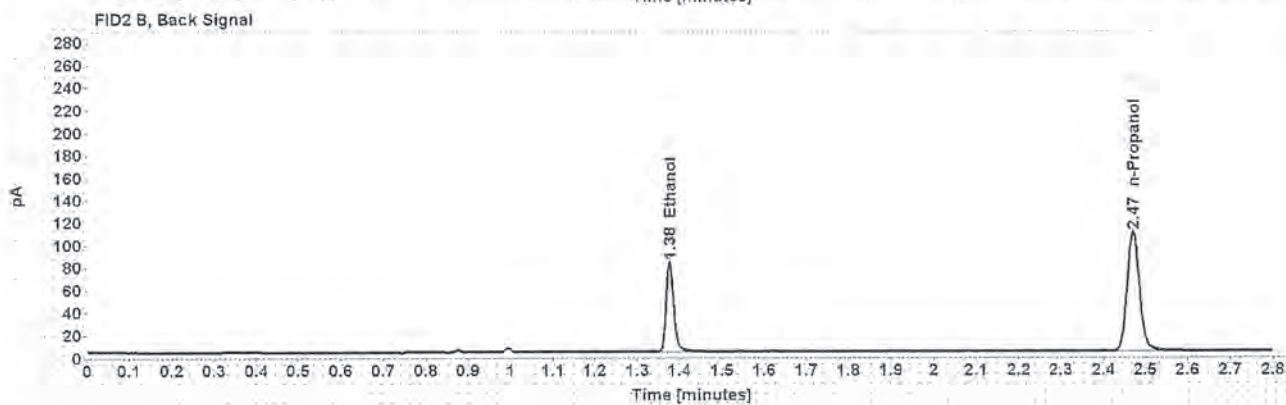
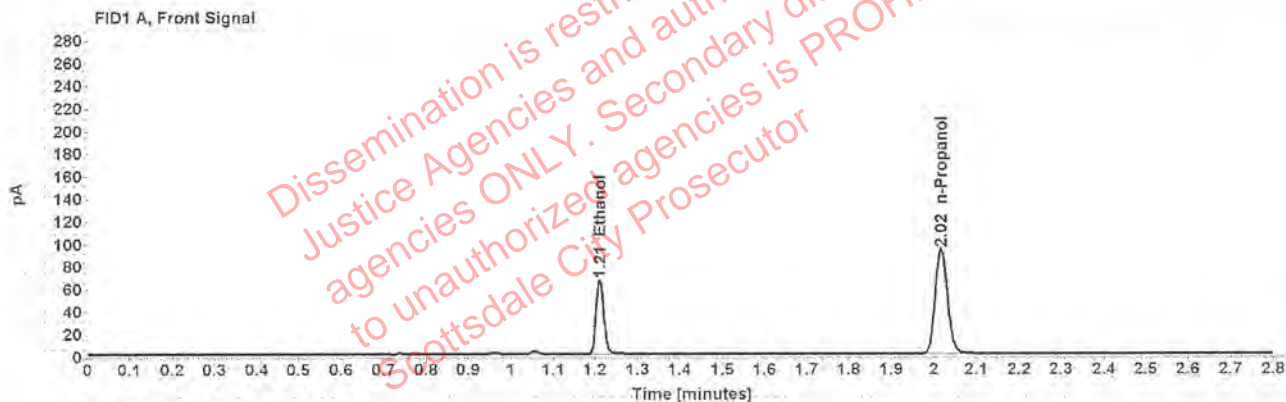


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1264	1.211	84.405
n-Propanol	---	2.017	185.159

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

Compound	Time (min)	Peak Area
Ethanol	1.377	102.092
n-Propanol	2.470	221.169

Case: [REDACTED] User: pbrooke 4/16/2020

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1314387	Vial:	28
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:38:39 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\28.D	Analyst:	Brooke

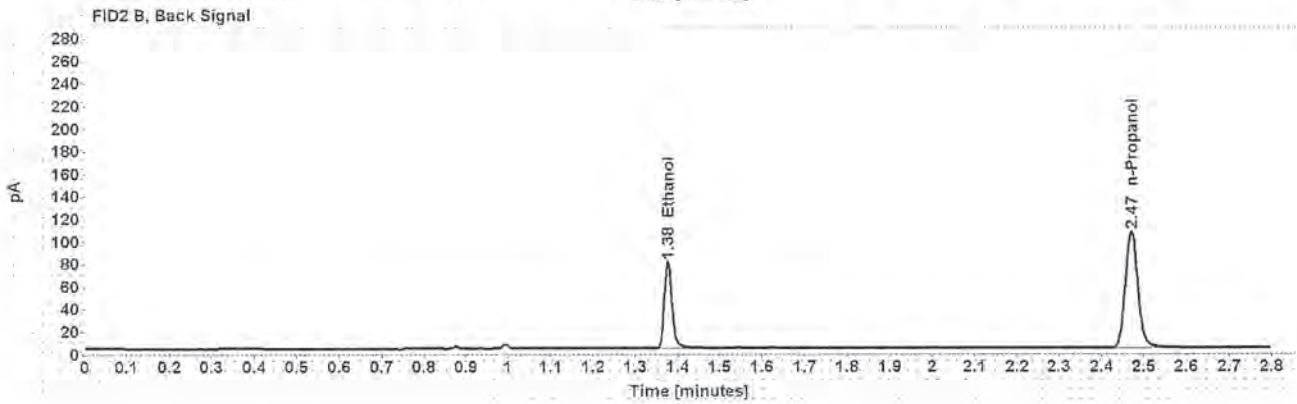
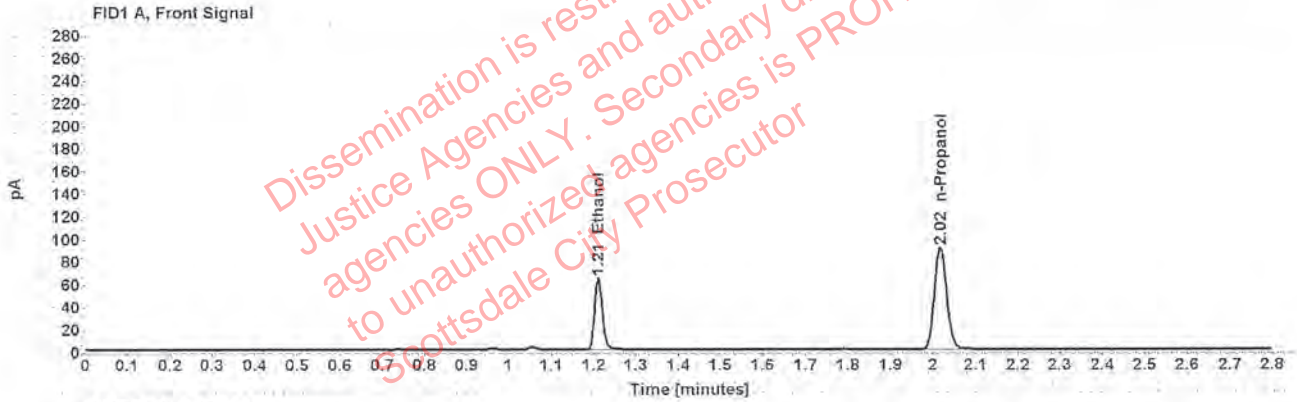


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1252	1.211	81.439
n-Propanol	-----	2.017	180.364

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

Compound	Time (min)	Peak Area
Ethanol	1.377	98.703
n-Propanol	2.470	215.080



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	33501AM	Vial:	29
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:42:39 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\29.D	Analyst:	Brooke

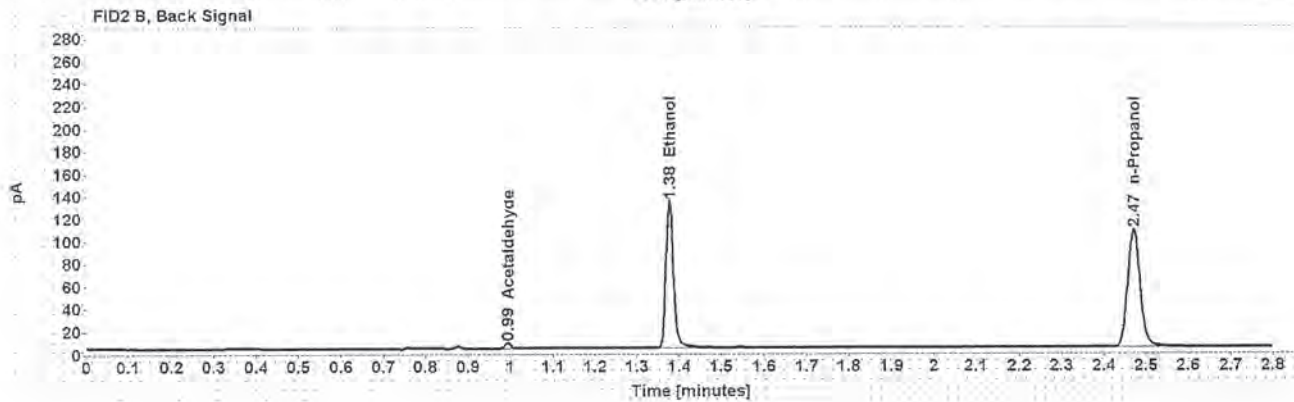
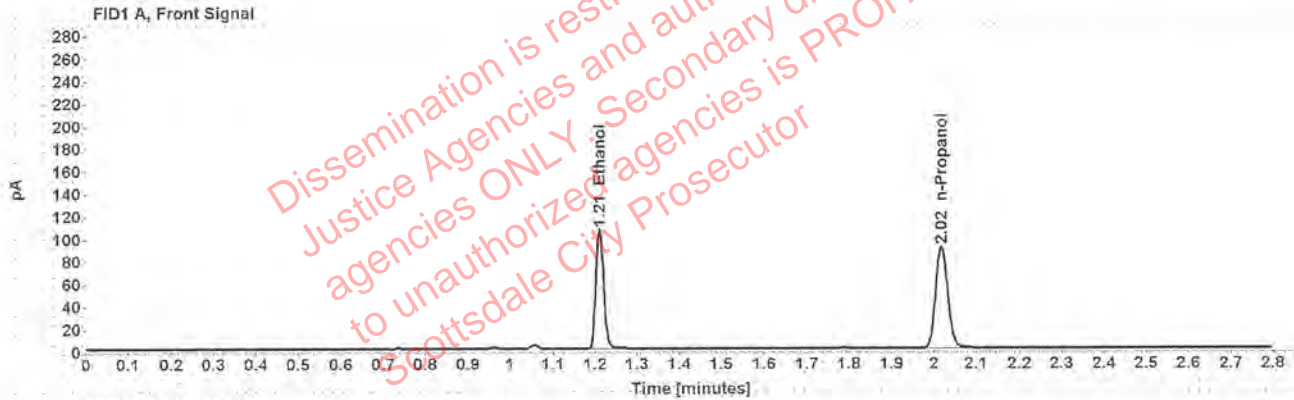


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2086	1.211	135.990
n-Propanol	-----	2.017	180.639

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.637
Ethanol	1.376	166.041
n-Propanol	2.470	214.808

Case: [REDACTED] User: pbrooke 4/16/2020

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	33501AM	Vial:	30
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:46:39 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\30.D	Analyst:	Brooke

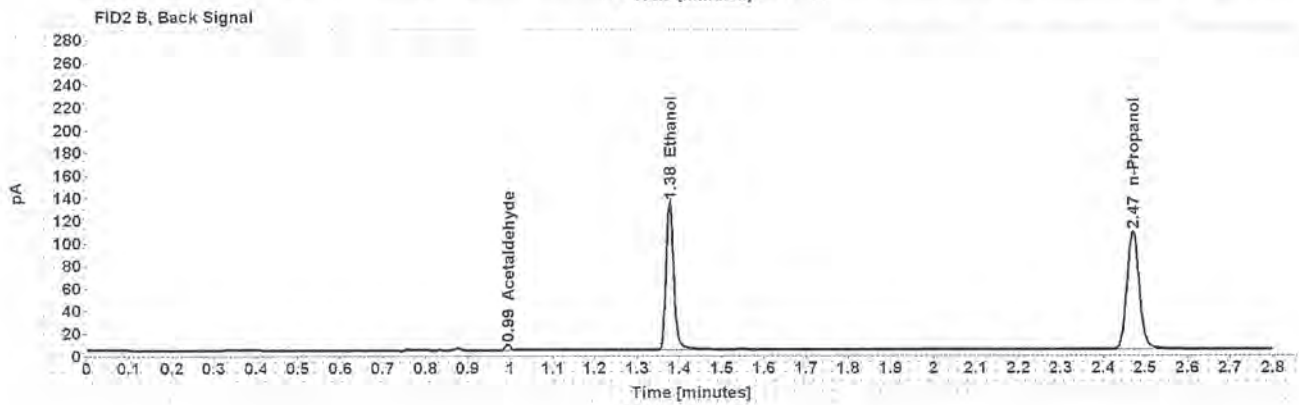
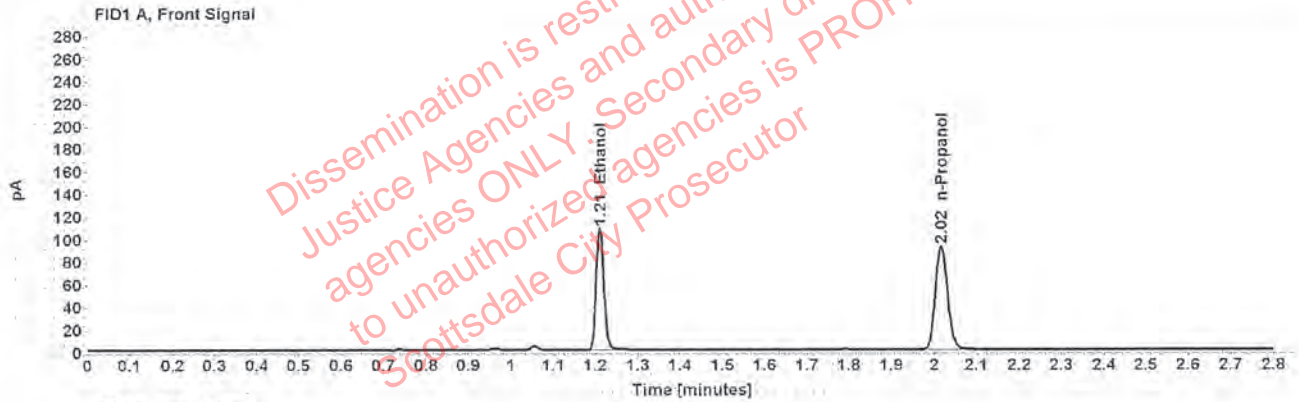


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2086	1.211	137.787
n-Propanol	-----	2.017	182.975

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.758
Ethanol	1.376	168.158
n-Propanol	2.470	217.353

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1314133	Vial:	32
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:54:54 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\32.D	Analyst:	Brooke

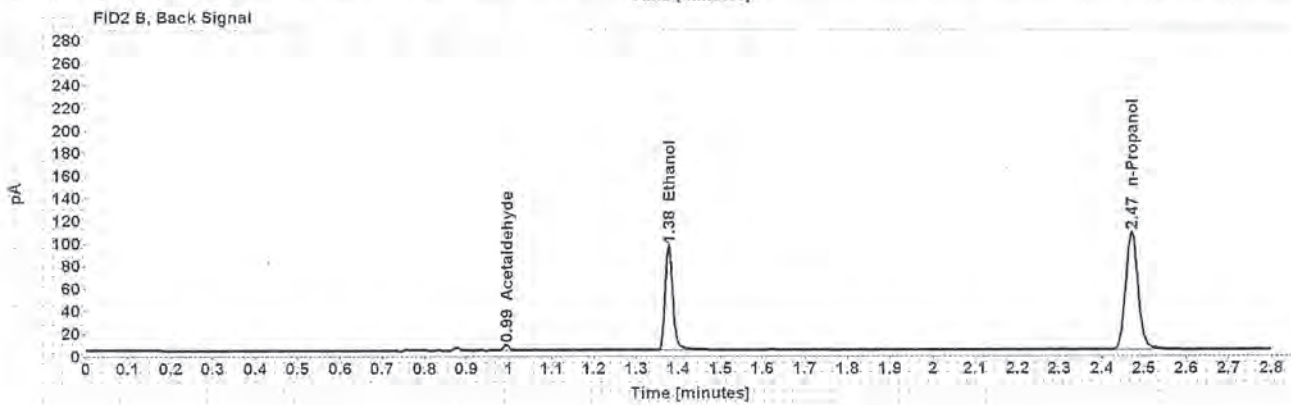
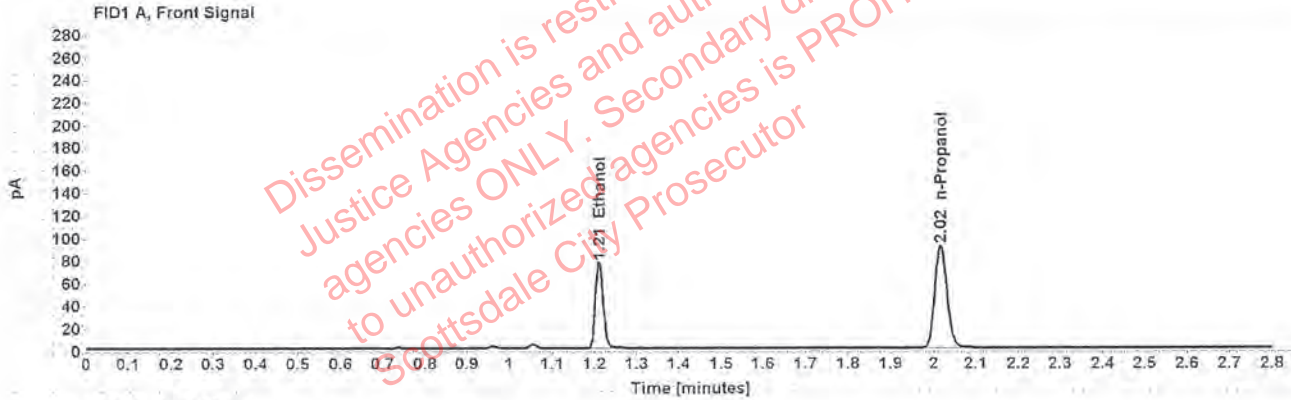


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1496	1.211	97.818
n-Propanol	-----	2.017	181.178

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.689
Ethanol	1.377	118.496
n-Propanol	2.470	216.403



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1314133	Vial:	33
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 2:58:54 PM
Data file:	C:\Chem321\Data\Raines\15Apr20\33.D	Analyst:	Brooke

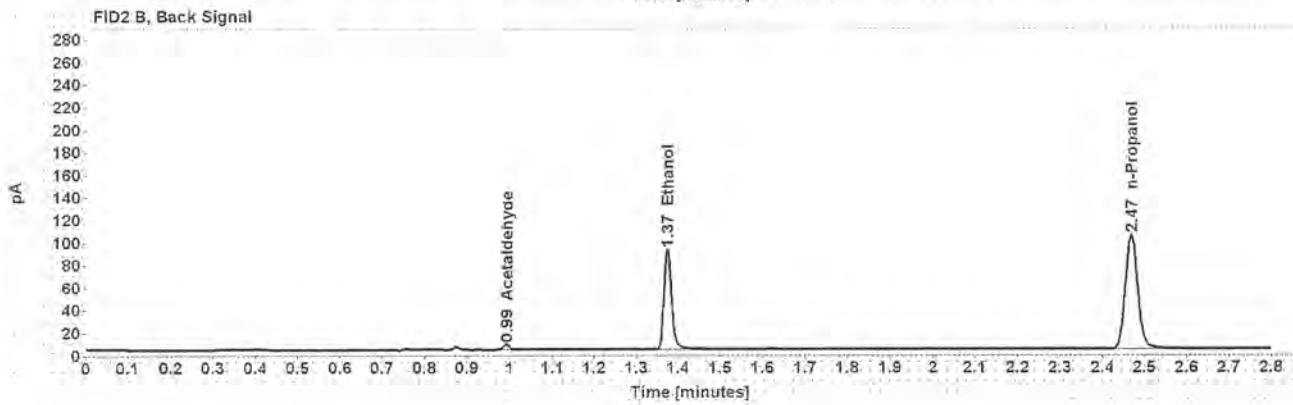
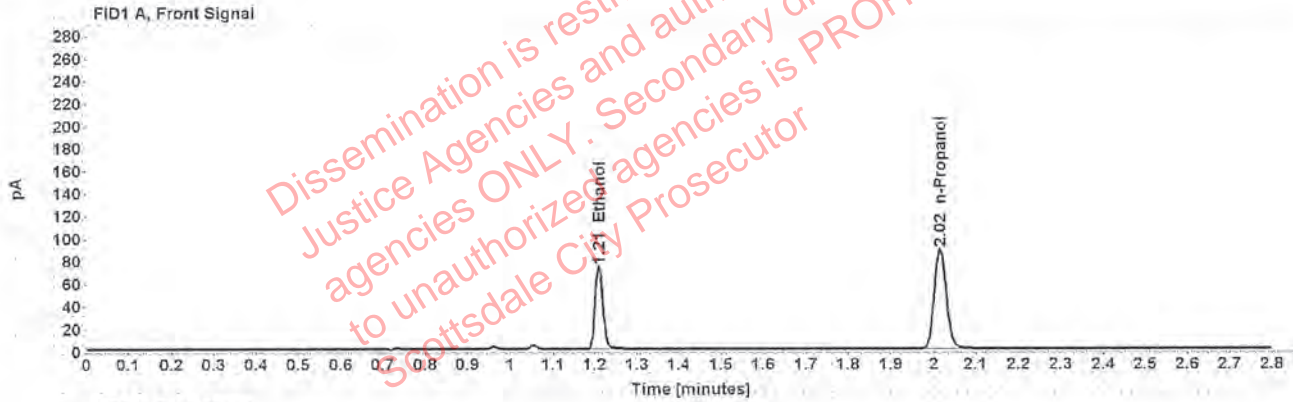


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1480	1.210	93.945
n-Propanol	-----	2.015	175.874

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	4.670
Ethanol	1.374	115.987
n-Propanol	2.468	210.225

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1315279	Vial:	34
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 3:02:54 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\34.D	Analyst:	Brooke

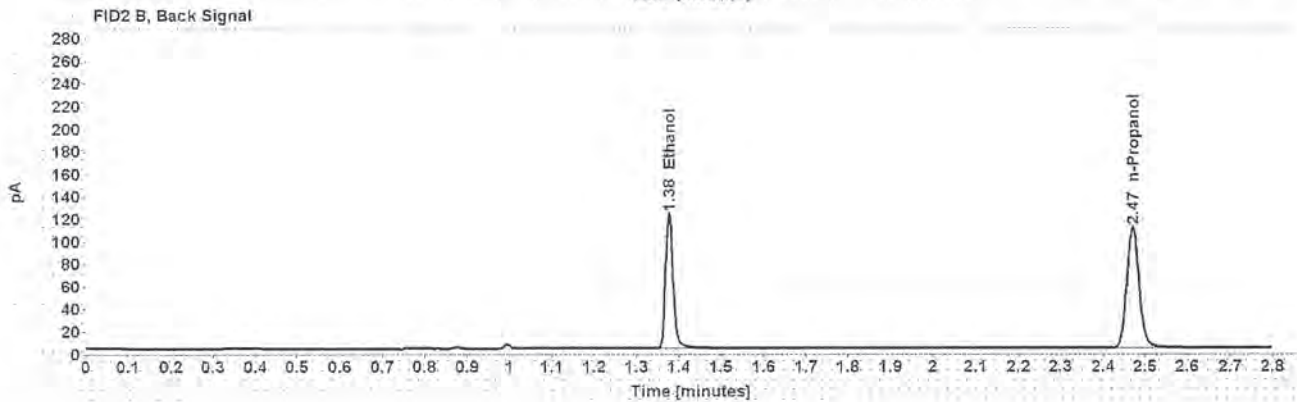
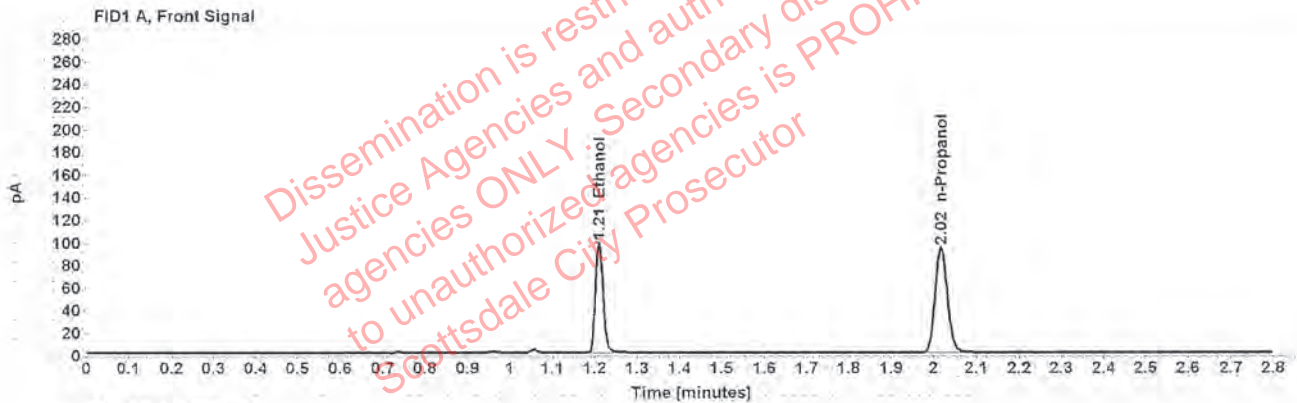


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1865	1.211	125.712
n-Propanol	—	2.017	186.789

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

Compound	Time (min)	Peak Area
Ethanol	1.377	153.528
n-Propanol	2.470	222.648

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1315279	Vial:	35
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 3:06:54 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\35.D	Analyst:	Brooke

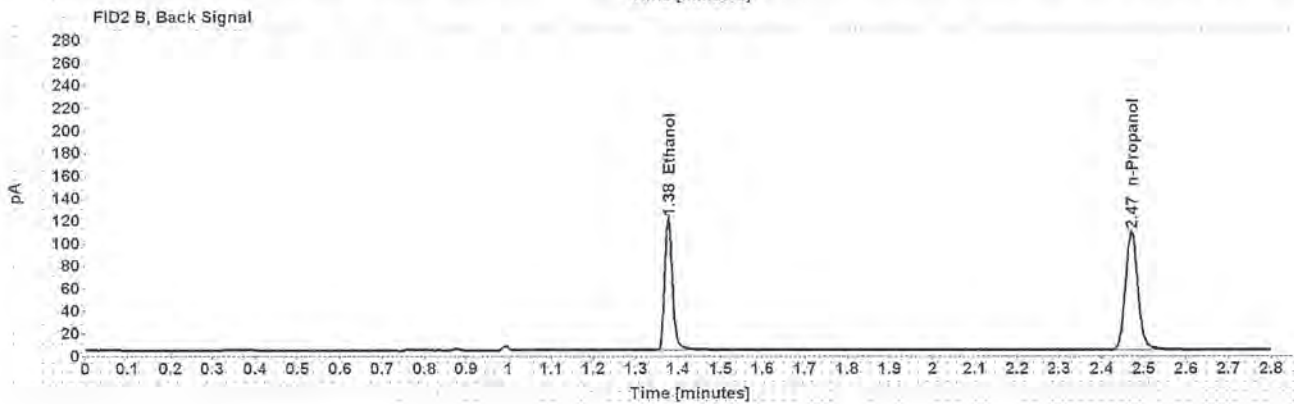
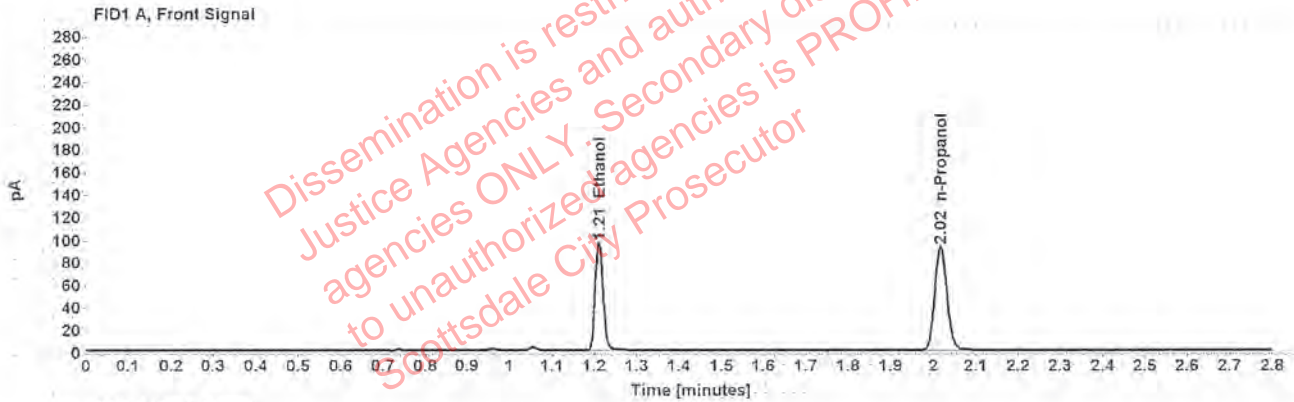


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1860	1.211	123.227
n-Propanol	-----	2.017	183.544

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

Compound	Time (min)	Peak Area
Ethanol	1.376	150.379
n-Propanol	2.470	218.275



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1306868	Vial:	36
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 3:10:54 PM
Data file:	C:\Chem32\1\Data\Raines\15Apr20\36.D	Analyst:	Brooke

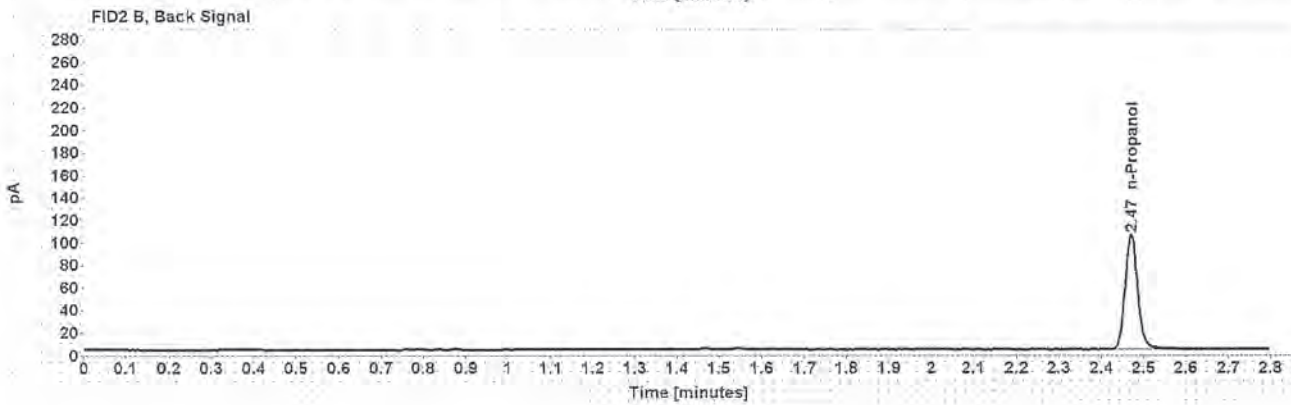


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	177.572

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

Compound	Time (min)	Peak Area
n-Propanol	2.470	211.783

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1306868	Vial:	37
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Apr20
Instrument:	US14173023 CN14160045	Injection date:	4/15/2020 3:15:09 PM
Data file:	C:\Chem3211\Data\Raines\15Apr20\37.D	Analyst:	Brooke

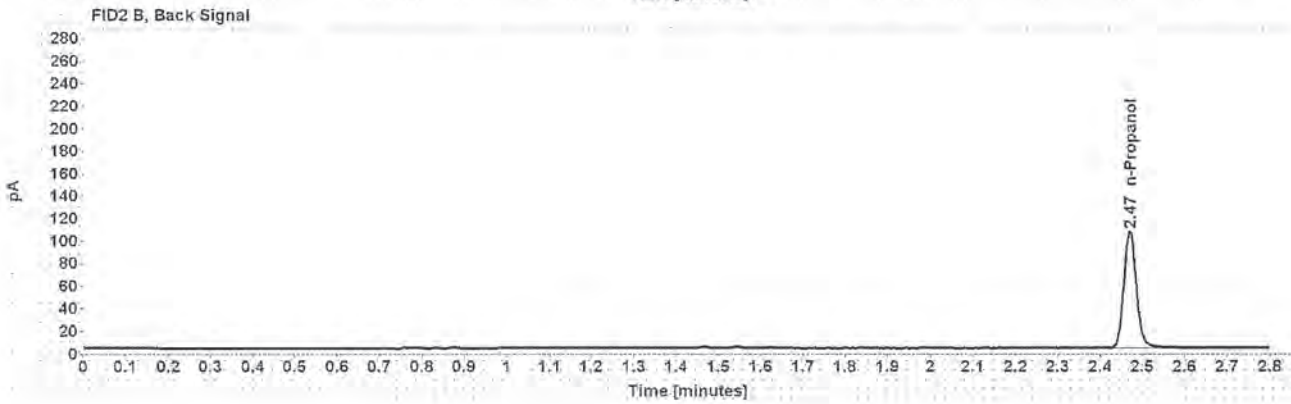
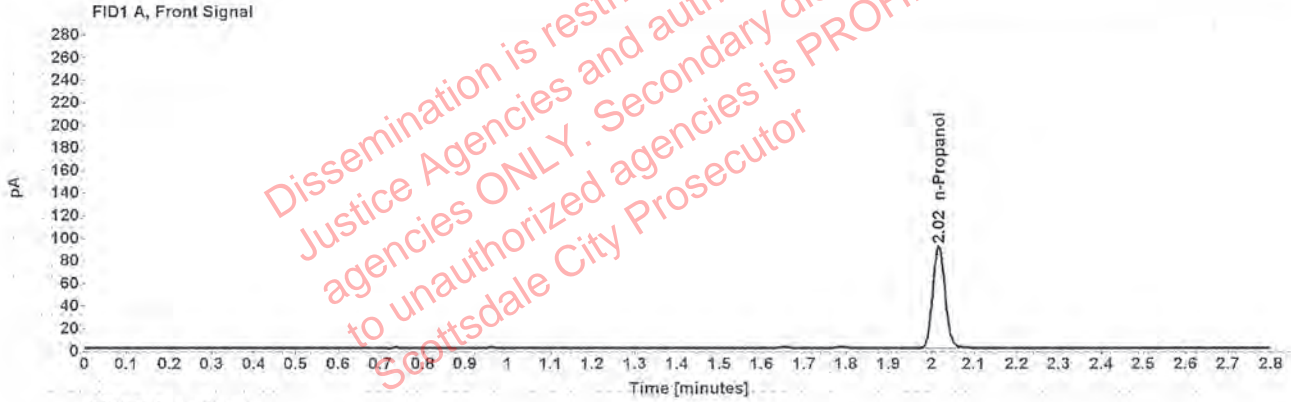


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	181,540

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

Compound	Time (min)	Peak Area
n-Propanol	2.470	216.295