

# SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 12/15/2020 SEQUENCE NAME 15Dec20

**EQUIPMENT**

Pipettor  Hamilton ML600EH7497  Hamilton ML600GJ10749  
 Gas Chromatograph  Agilent US14173023

**INSTRUMENT CALIBRATION**

Vial 1 0.02 calibrator Lot FN06141806 Coefficient of determination (r<sup>2</sup>)  
 Vial 2 0.10 calibrator Lot FN05311902 0.99998  
 Vial 3 0.20 calibrator Lot FN05101903  
 Vial 4 0.40 calibrator Lot FN10051906

**CALIBRATION VERIFICATION AND RESOLUTION TEST**

Vial	Sample	Expected result	Measured result	Manufacturer/lot
5	Blank	Not detected	Not detected	SPD lab 071420AQ
6	Volatiles mixture	6 compounds	6 compounds	SPD lab 070819MIX
7	Aqueous control	0.400 g/dL	0.411 g/dL	Lipomed 11092018-A
8	Aqueous control	0.040 g/dL	0.041 g/dL	Lipomed 14082019-B
9	Blood control	0.198 g/dL	0.203 g/dL	ACQ 407041529/13
20	Aqueous control	0.080 g/dL	0.081 g/dL	Lipomed 03102016-A/1
31	Aqueous control	0.080 g/dL	0.082 g/dL	Lipomed 03102016-A/1
42	Aqueous control	0.400 g/dL	0.404 g/dL	Lipomed 11092018-A
43	Aqueous control	0.040 g/dL	0.041 g/dL	Lipomed 14082019-B
44	Blood control	0.198 g/dL	0.201 g/dL	ACQ 407041529/13
45	Blank	Not detected	Not detected	SPD lab 111020WB

**SUBJECT SAMPLES**

Subjects in the sequence 15 Subjects requiring reanalysis 0

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

Run valid  Run invalid  [Signature] Analyst  
 Run valid  Run invalid  [Signature] Technical Reviewer

# Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

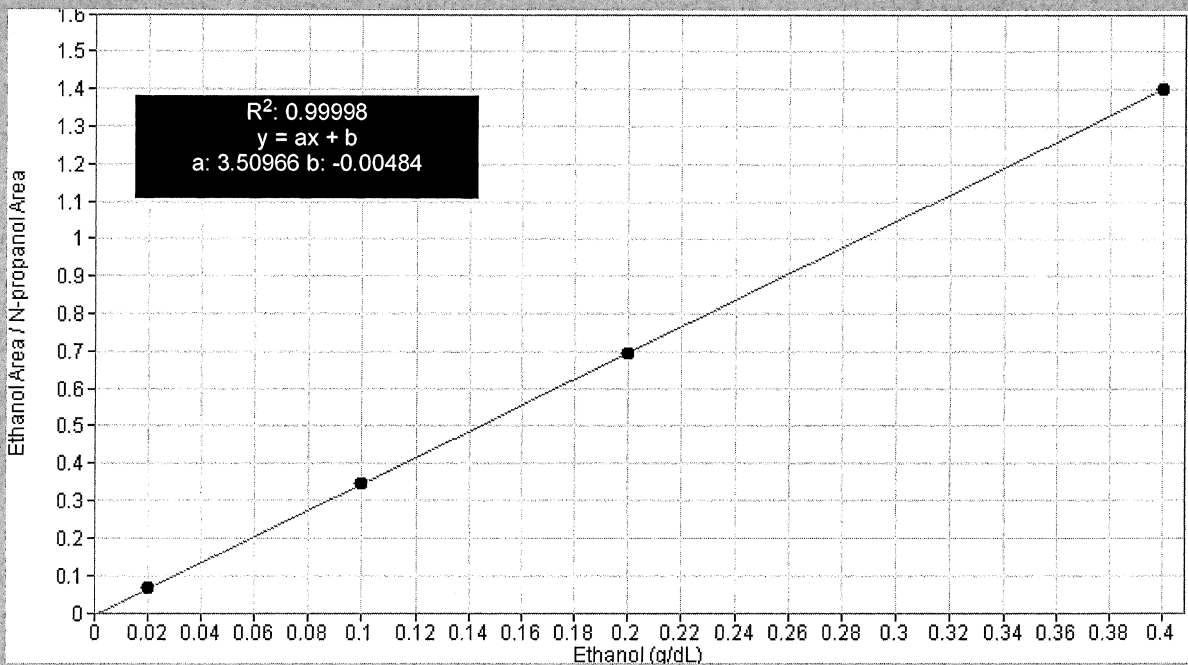
SEQUENCE NAME: 15Dec20

ANALYST: Abbott *Abbott*

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 071420AQ	5	negative	negative	-	-
0.400 11092018-A	7	0.411	0.400	2.75	0.011
0.040 14082019-B	8	0.041	0.040	2.50	0.001
0.198 407041529/13	9	0.203	0.198	2.53	0.005
0.080 03102016-A/1	20	0.081	0.080	1.25	0.001
0.080 03102016-A/1	31	0.082	0.080	2.50	0.002
0.400 11092018-A	42	0.404	0.400	1.00	0.004
0.040 14082019-B	43	0.041	0.040	2.50	0.001
0.198 407041529/13	44	0.201	0.198	1.52	0.003
blank 111020WB	45	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	11.725	173.412	0.068
0.100	60.322	174.394	0.346
0.200	118.965	171.624	0.693
0.400	240.210	171.464	1.401

### Calibration Line



# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN06141806	<b>Vial:</b> 1
<b>Description:</b> 0.020 calibrator	<b>Sequence:</b> 15Dec20
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 12/15/2020 4:14:42 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Abbott
<b>Data file:</b> C:\Chem32\1\Data\15Dec20\1.D	

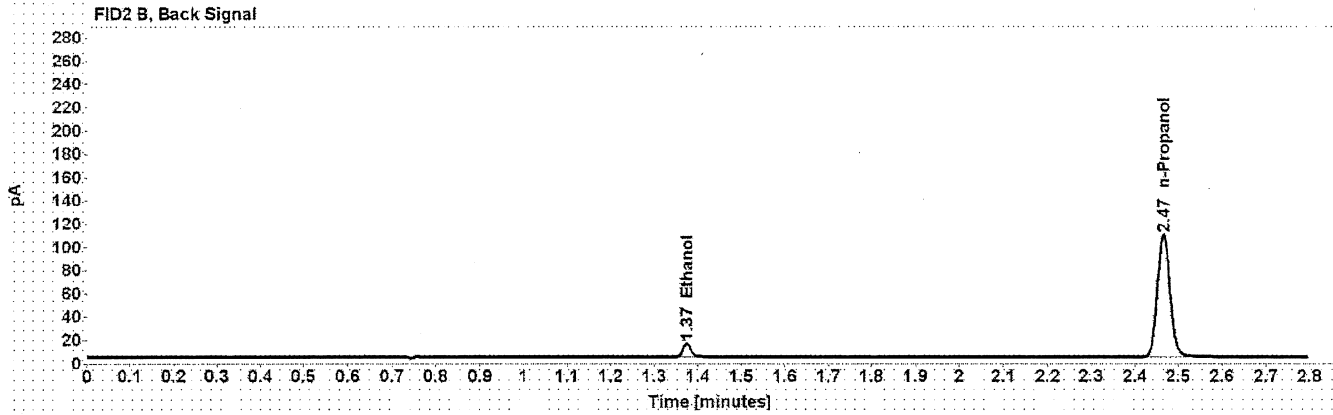


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.212	11.725
n-Propanol	2.015	173.412

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

Compound	Time (min)	Peak Area
Ethanol	1.374	14.636
n-Propanol	2.466	213.770

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN05311902	<b>Vial:</b> 2
<b>Description:</b> 0.100 calibrator	<b>Sequence:</b> 15Dec20
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 12/15/2020 4:18:42 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Abbott <span style="float: right;"><i>Abbott</i></span>
<b>Data file:</b> C:\Chem32\1\Data\15Dec20\2.D	

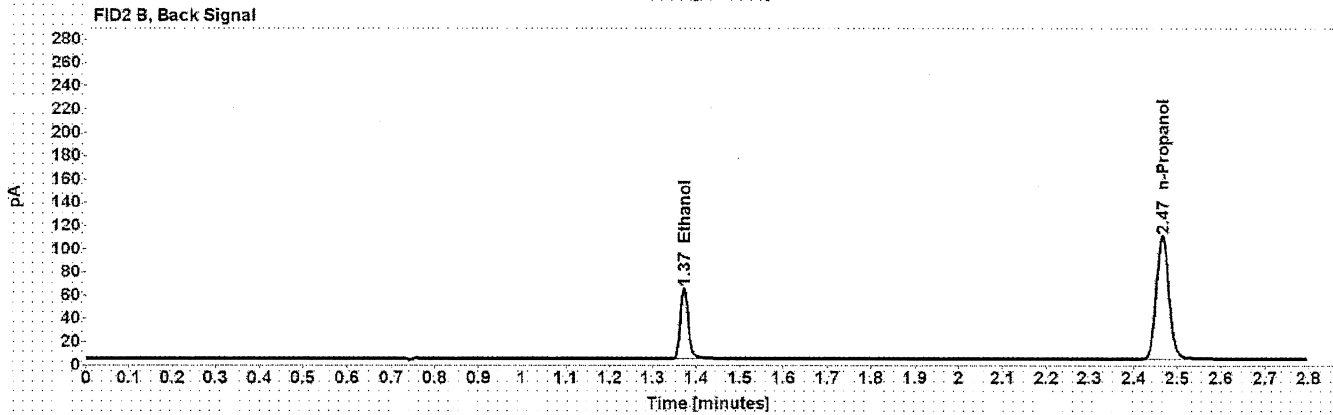
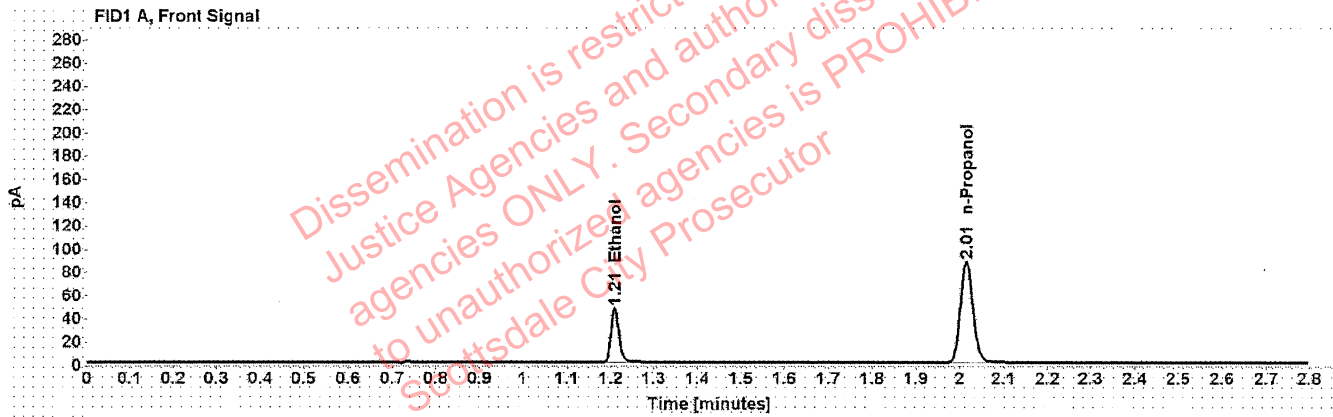


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	60.322
n-Propanol	2.015	174.394

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

Compound	Time (min)	Peak Area
Ethanol	1.372	75.393
n-Propanol	2.466	215.361



# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN05101903	<b>Vial:</b> 3
<b>Description:</b> 0.200 calibrator	<b>Sequence:</b> 15Dec20
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 12/15/2020 4:22:42 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Abbott <span style="float: right;">JA</span>
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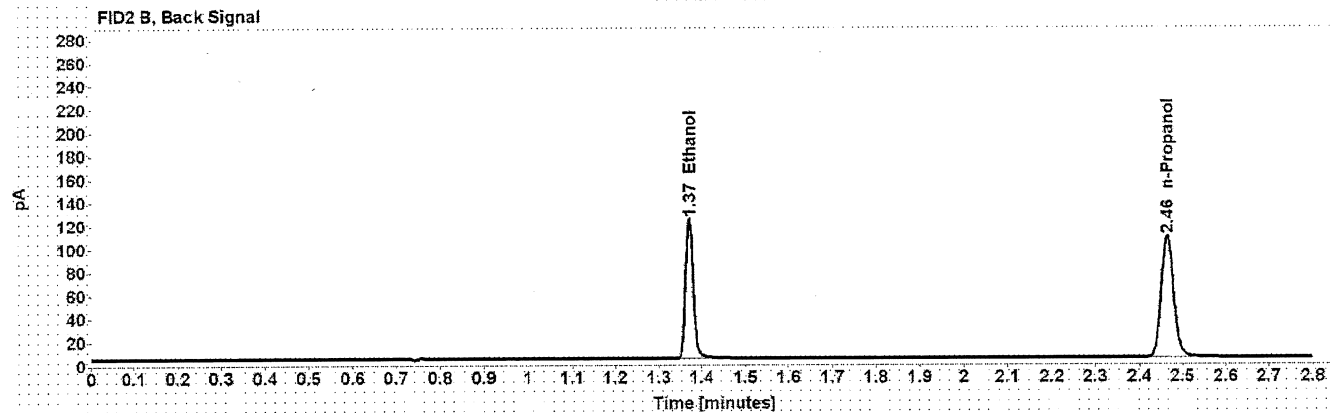
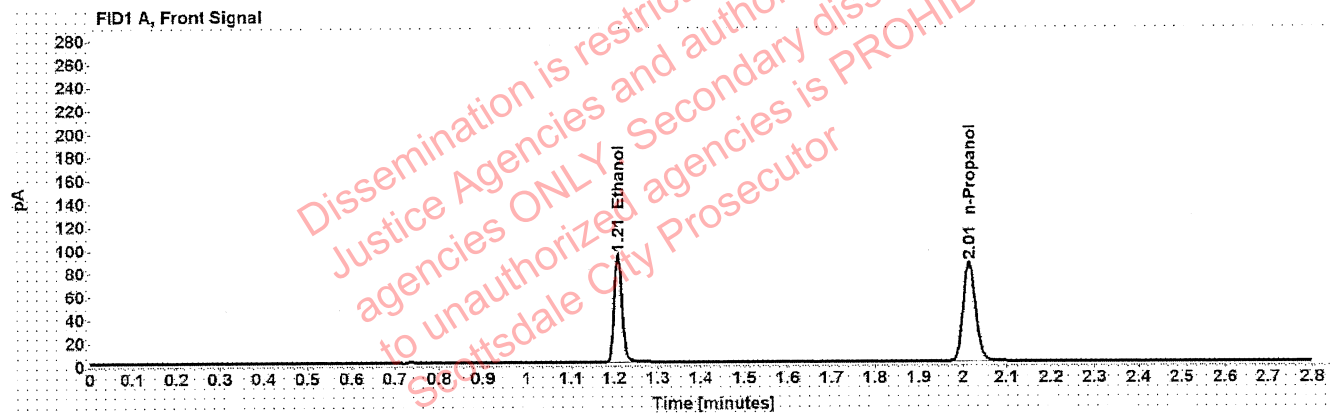


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.208	118.965
n-Propanol	2.014	171.624

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

Compound	Time (min)	Peak Area
Ethanol	1.371	149.285
n-Propanol	2.465	212.044

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> FN10051906	<b>Vial:</b> 4
<b>Description:</b> 0.400 calibrator	<b>Sequence:</b> 15Dec20
<b>Method:</b> ethanol quant.M	<b>Injection date:</b> 12/15/2020 4:26:42 PM
<b>Instrument:</b> US14173023 CN14160045	<b>Analyst:</b> Abbott
<b>Data file:</b> C:\Chem32\1\Data\15Dec20\4.D	

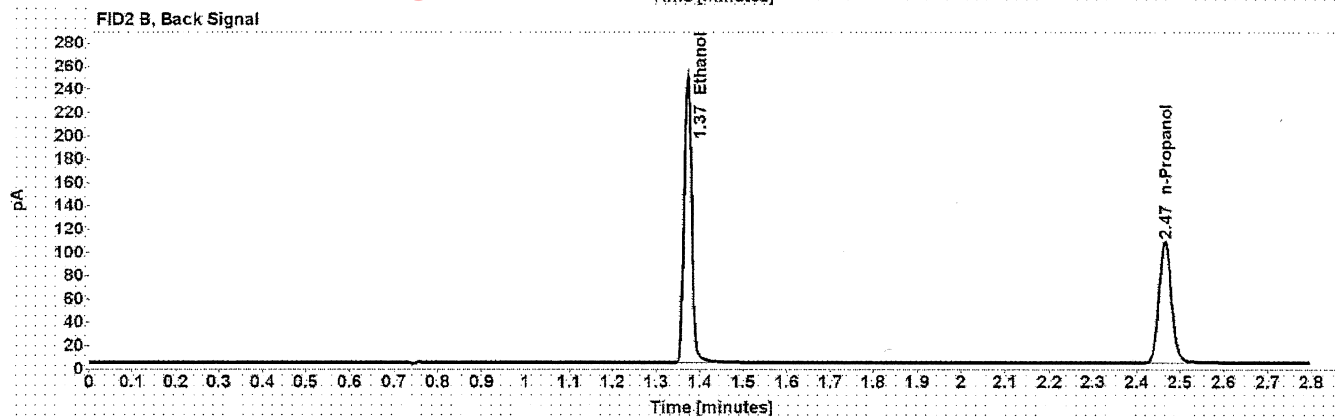
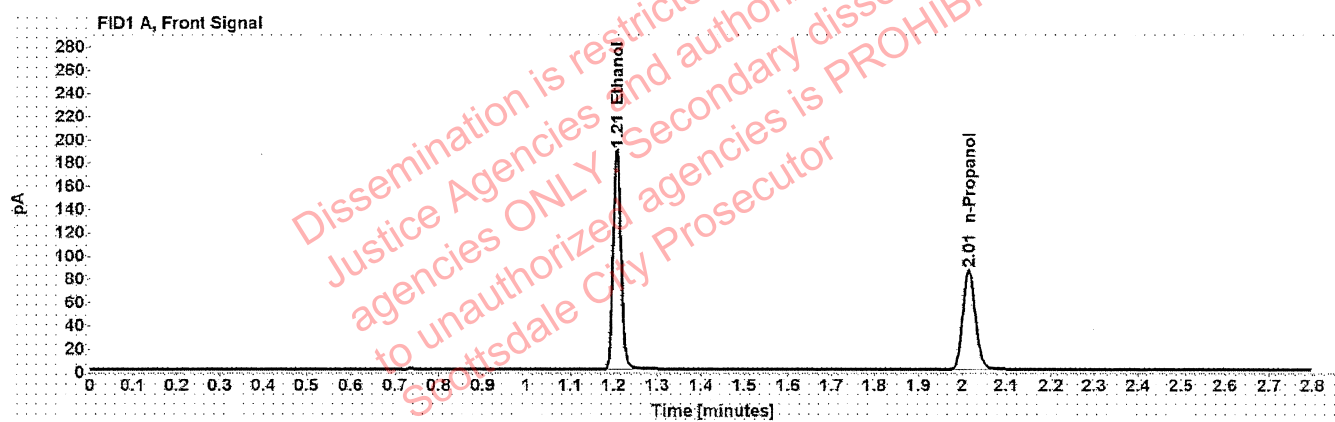


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.208	240.210
n-Propanol	2.015	171.464

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

Compound	Time (min)	Peak Area
Ethanol	1.371	301.614
n-Propanol	2.465	212.190

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	071420AQ	Vial:	5
Description:	Negative	LIMS ID:	
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 4:30:42 PM
Data file:	C:\Chem32\1\Data\15Dec20\5.D	Analyst:	Abbott <span style="float: right;">OH</span>

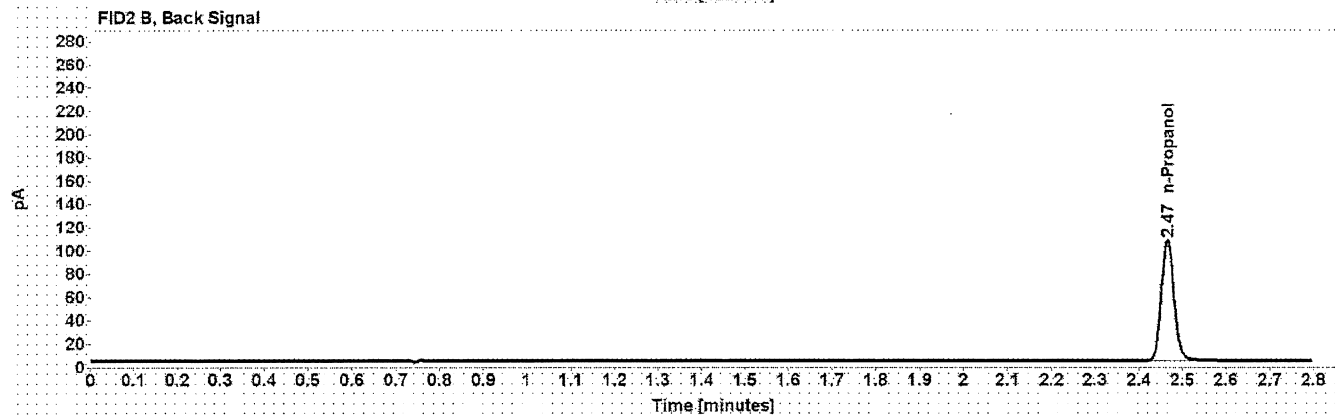
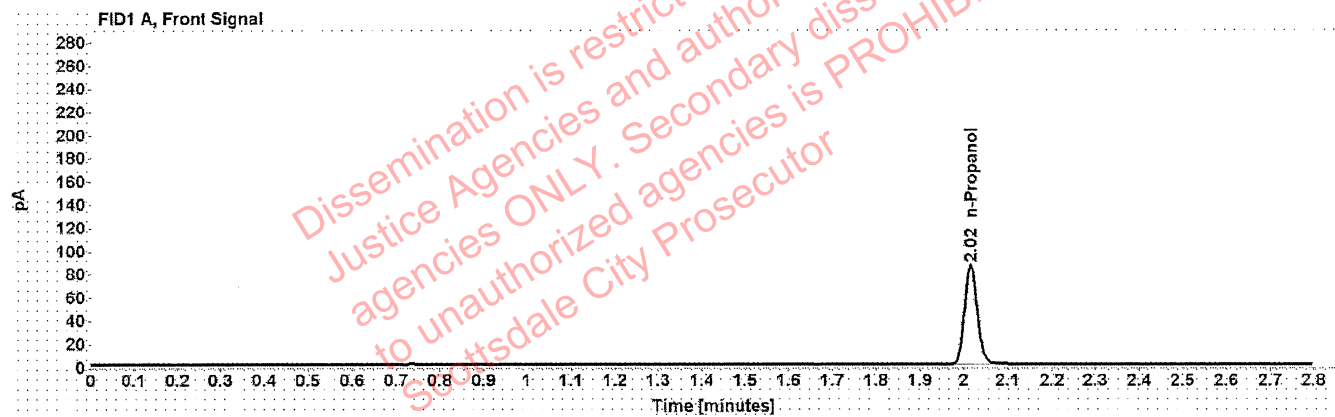


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.015	170.862

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

Compound	Time (min)	Peak Area
n-Propanol	2.466	210.700

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 070819MIX	Vial: 6
Description: Volatiles mix	LIMS ID:
Method: ethanol quant.M	Sequence: 15Dec20
Instrument: US14173023 CN14160045	Injection date: 12/15/2020 4:34:42 PM
Data file: C:\Chem32\1\Data\15Dec20\6.D	Analyst: Abbott <span style="float: right;">DA</span>

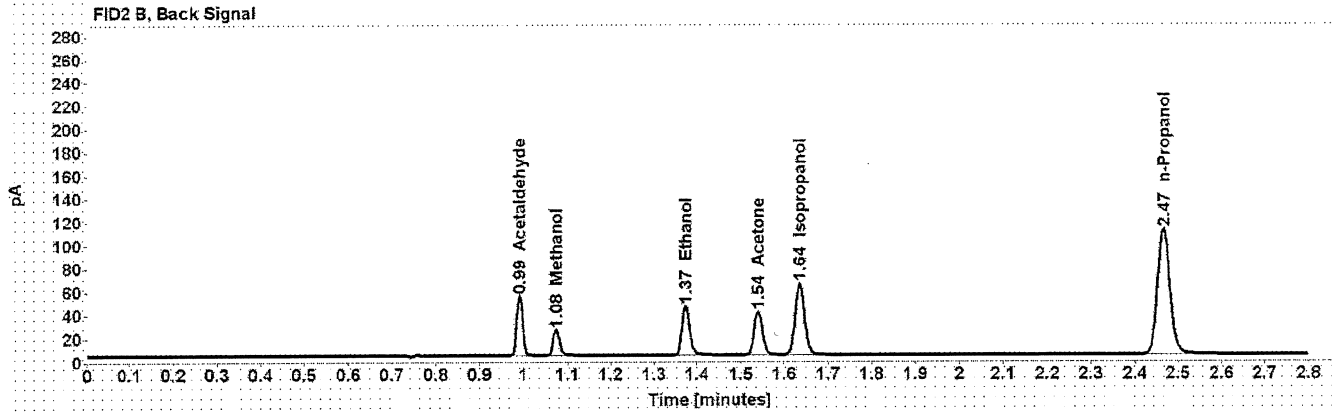
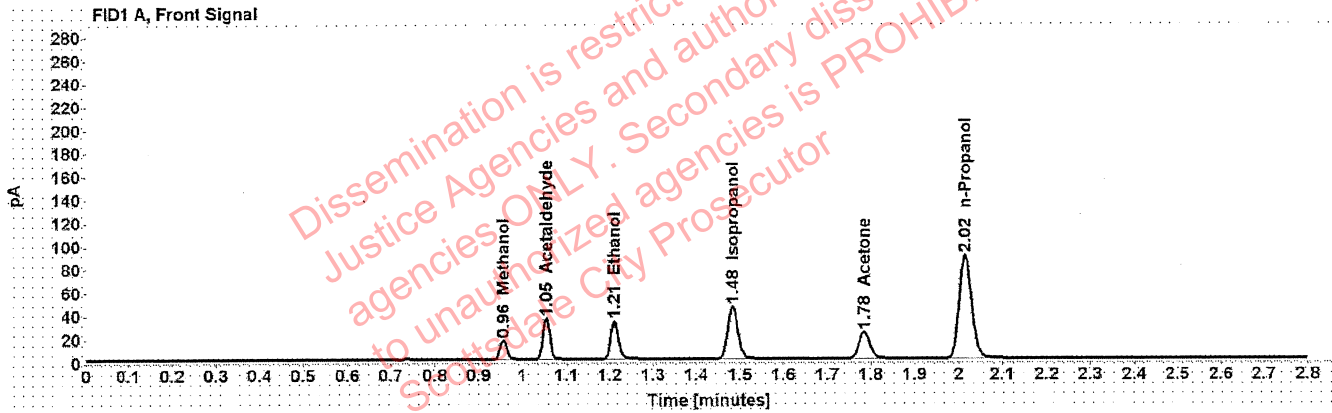


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.957	18.382
Acetaldehyde	-----	1.055	38.455
>Ethanol	0.0690	1.210	42.113
Isopropanol	-----	1.483	72.401
Acetone	-----	1.784	39.573
n-Propanol	-----	2.015	177.463

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.992	50.018
Methanol	1.075	23.658
Ethanol	1.374	52.442
Acetone	1.540	49.181
Isopropanol	1.635	93.128
n-Propanol	2.466	219.179

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 11092018-A	Vial: 7
Description: 0.400	LIMS ID:
Method: ethanol quant.M	Sequence: 15Dec20
Instrument: US14173023 CN14160045	Injection date: 12/15/2020 4:38:57 PM
Data file: C:\Chem32\1\Data\15Dec20\7.D	Analyst: Abbott

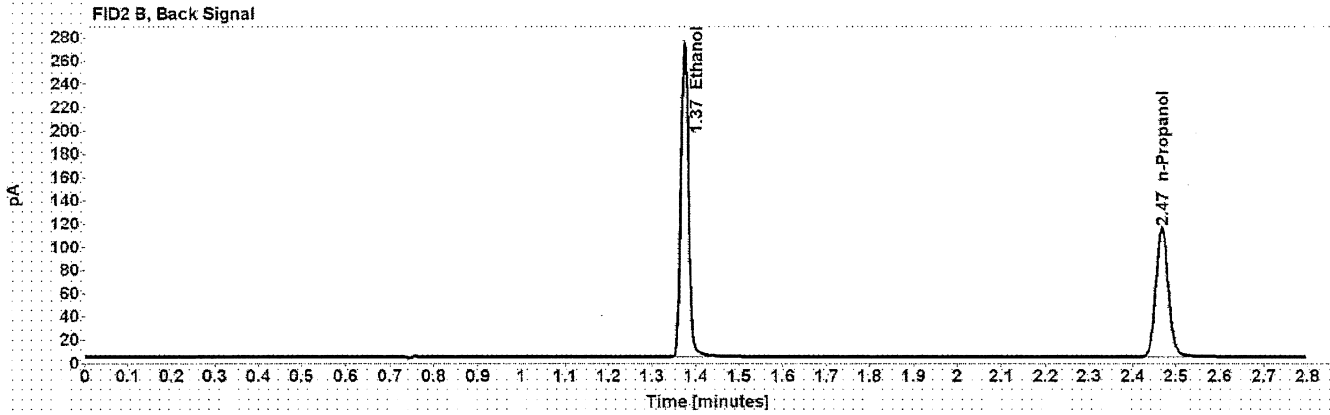
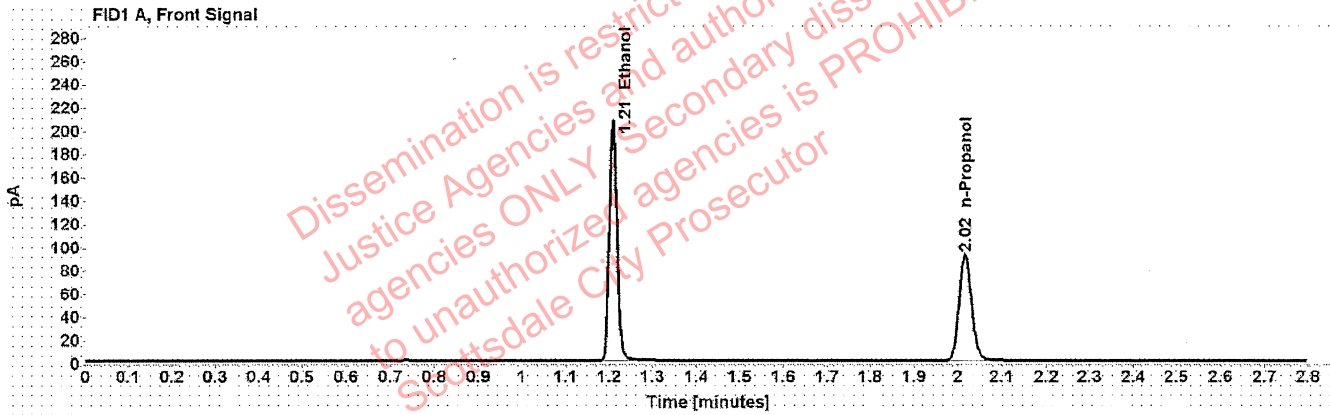


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4112	1.209	262.741
n-Propanol	-----	2.016	182.677

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

Compound	Time (min)	Peak Area
Ethanol	1.374	329.862
n-Propanol	2.468	225.881

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 14082019-B	Vial: 8
Description: 0.040	LIMS ID:
Method: ethanol quant.M	Sequence: 15Dec20
Instrument: US14173023 CN14160045	Injection date: 12/15/2020 4:42:57 PM
Data file: C:\Chem32\1\Data\15Dec20\8.D	Analyst: Abbott

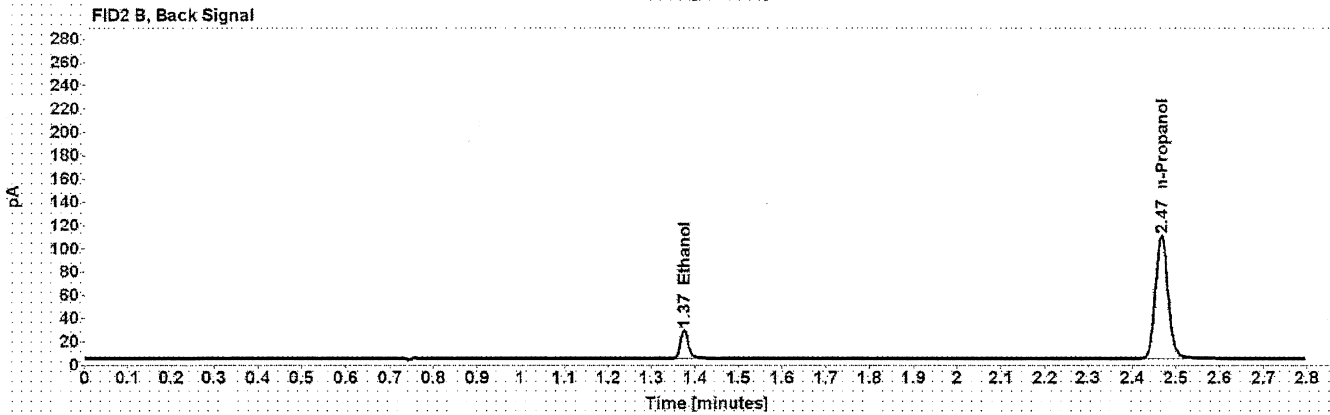
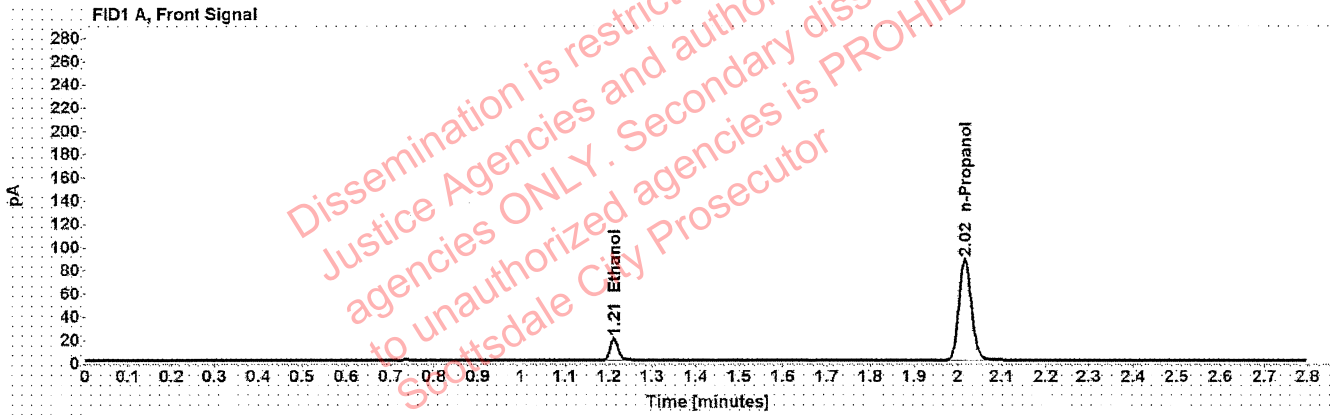


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0411	1.211	24.375
n-Propanol	-----	2.016	174.635

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

Compound	Time (min)	Peak Area
Ethanol	1.375	30.433
n-Propanol	2.467	215.009



# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 407041529/13	<b>Vial:</b> 9
<b>Description:</b> 0.198	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 15Dec20
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 12/15/2020 4:46:57 PM
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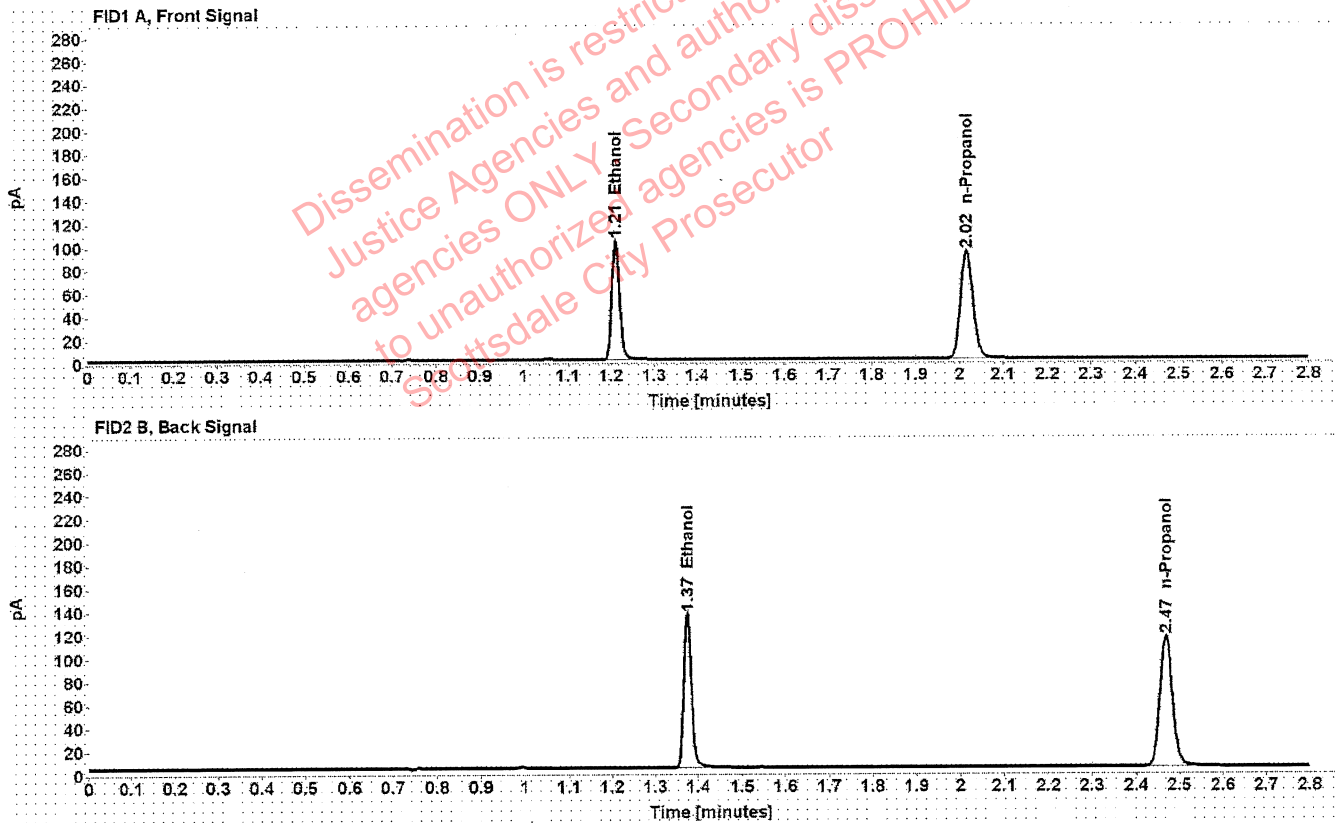


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2033	1.210	130.933
n-Propanol	-----	2.017	184.733

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

Compound	Time (min)	Peak Area
Ethanol	1.375	163.370
n-Propanol	2.468	227.903

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 03102016-A/1	<b>Vial:</b> 20
<b>Description:</b> 0.080	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 15Dec20
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 12/15/2020 5:31:27 PM
<b>Data file:</b> C:\Chem32\1\Data\15Dec20\20.D	<b>Analyst:</b> Abbott <span style="float: right;">AK</span>

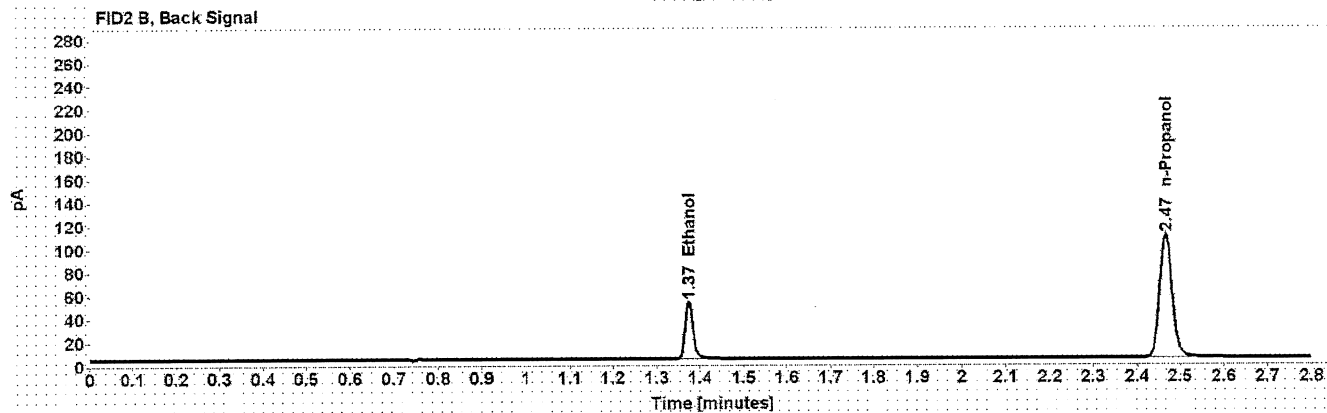
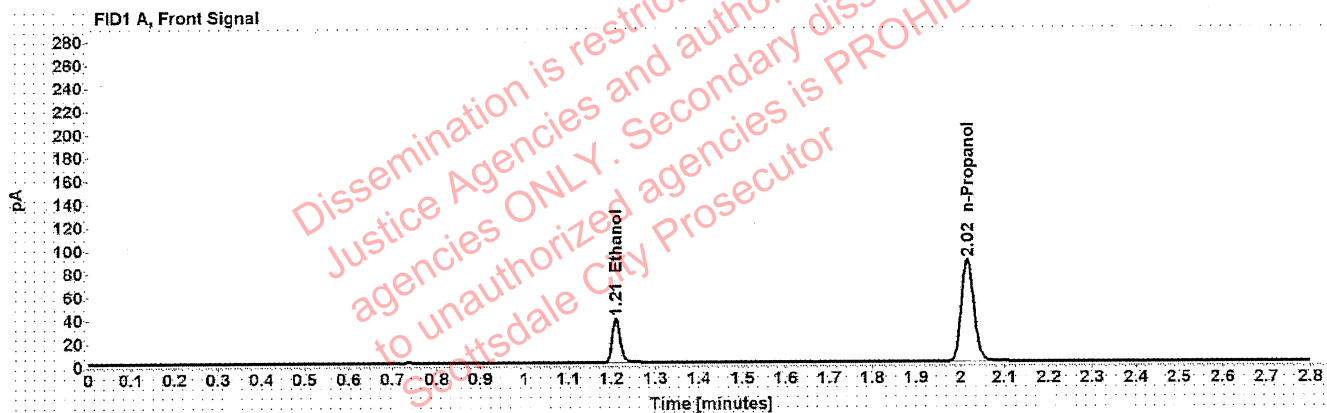


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0814	1.210	49.317
n-Propanol	-----	2.016	175.591

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

Compound	Time (min)	Peak Area
Ethanol	1.374	61.320
n-Propanol	2.467	215.846

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 03102016-A/1	<b>Vial:</b> 31
<b>Description:</b> 0.080	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 15Dec20
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 12/15/2020 6:15:57 PM
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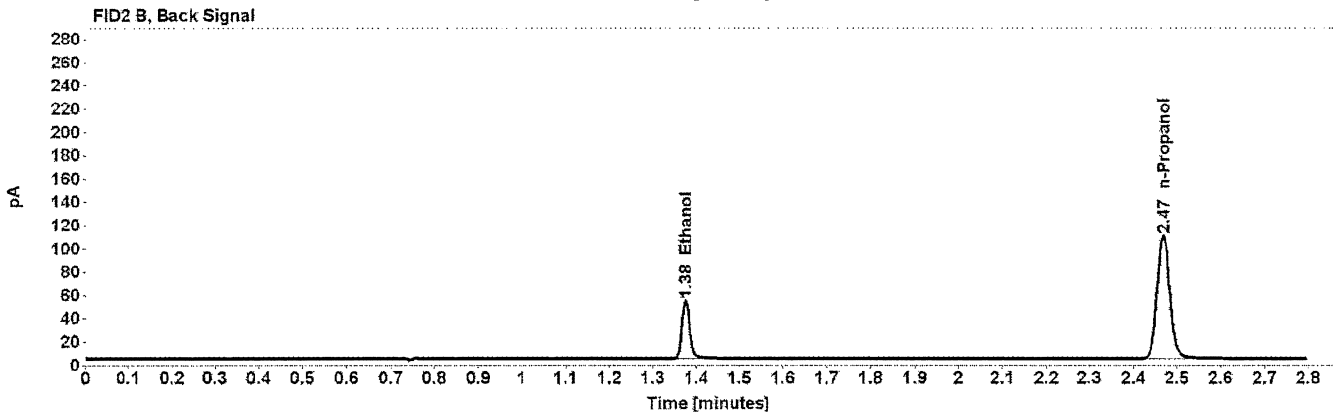
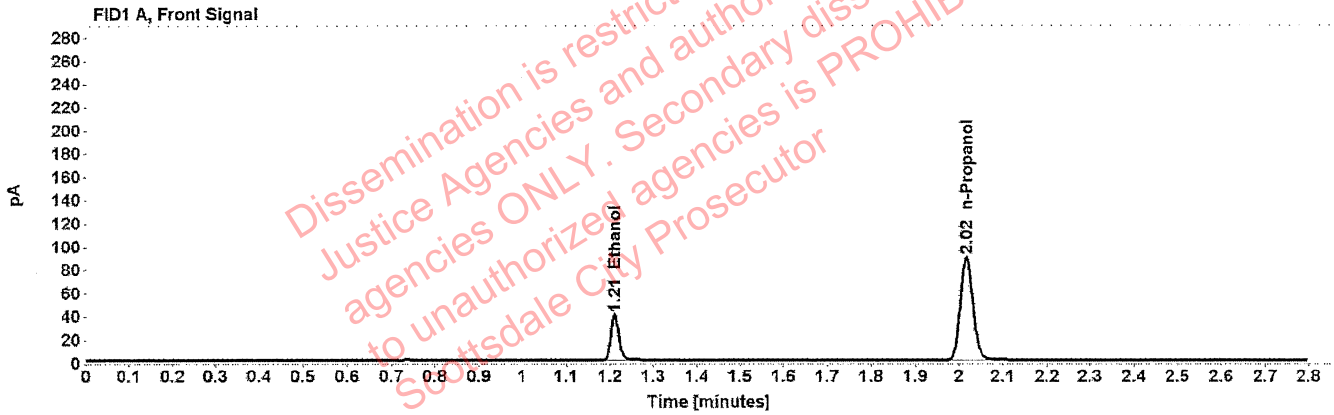


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0823	1.211	50.225
n-Propanol	-----	2.016	176.877

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

Compound	Time (min)	Peak Area
Ethanol	1.375	62.333
n-Propanol	2.468	216.826

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 11092018-A	<b>Vial:</b> 42
<b>Description:</b> 0.400	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 15Dec20
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 12/15/2020 7:00:12 PM
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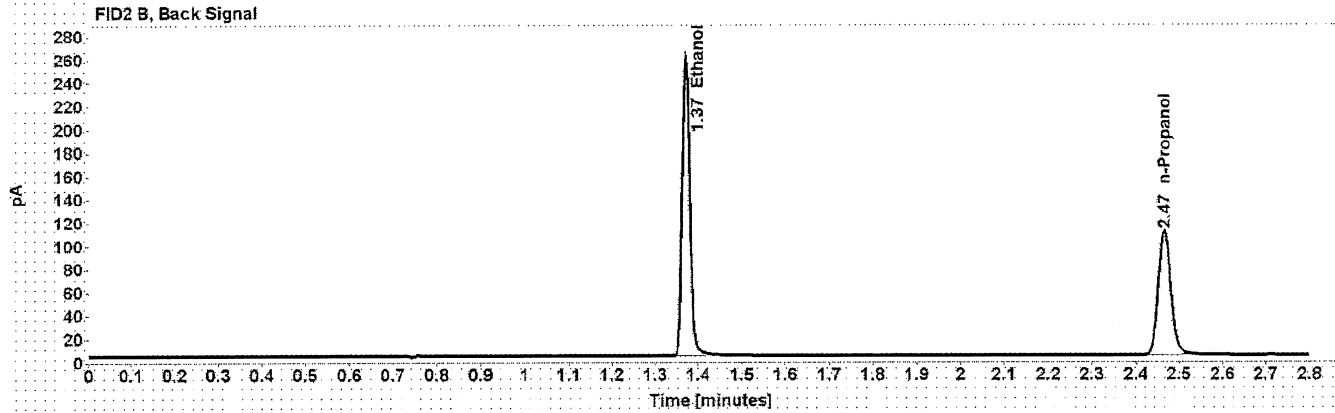
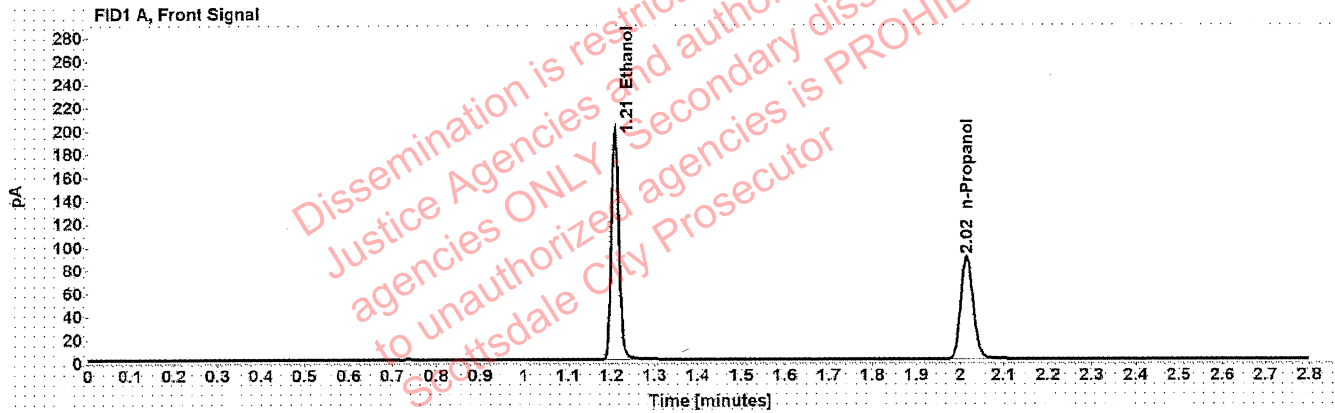


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4042	1.208	251.040
n-Propanol	-----	2.015	177.576

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

Compound	Time (min)	Peak Area
Ethanol	1.372	314.307
n-Propanol	2.466	218.382

# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 14082019-B	Vial: 43
Description: 0.040	LIMS ID:
Method: ethanol quant.M	Sequence: 15Dec20
Instrument: US14173023 CN14160045	Injection date: 12/15/2020 7:04:28 PM
Data file: C:\Chem32\1\Data\15Dec20\43.D	Analyst: Abbott <span style="float: right;">JA</span>

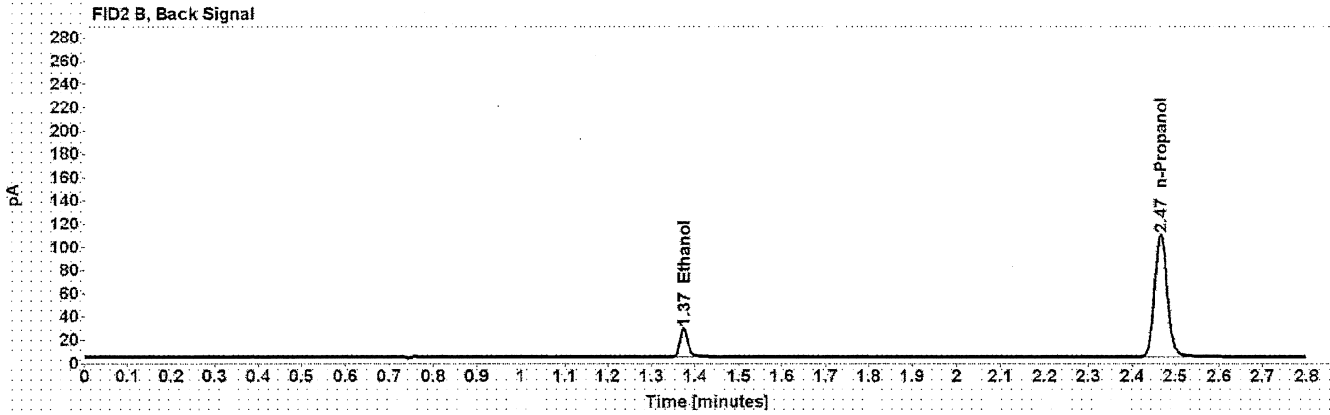


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0412	1.211	24.591
n-Propanol	-----	2.015	175.896

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

Compound	Time (min)	Peak Area
Ethanol	1.373	30.446
n-Propanol	2.466	215.599

# Scottsdale Police Department Crime Lab Volatiles Analysis

<b>Sample:</b> 407041529/13	<b>Vial:</b> 44
<b>Description:</b> 0.198	<b>LIMS ID:</b>
<b>Method:</b> ethanol quant.M	<b>Sequence:</b> 15Dec20
<b>Instrument:</b> US14173023 CN14160045	<b>Injection date:</b> 12/15/2020 7:08:27 PM
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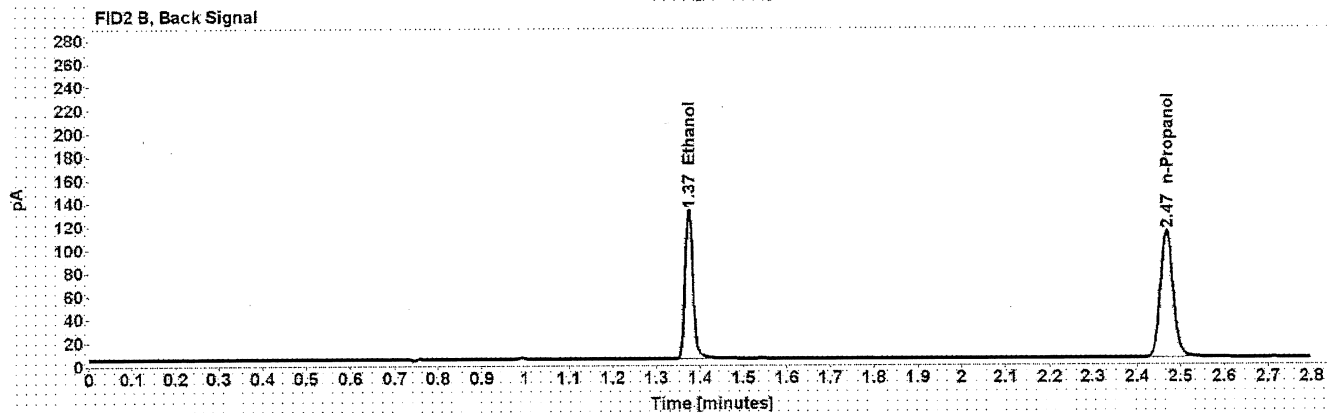
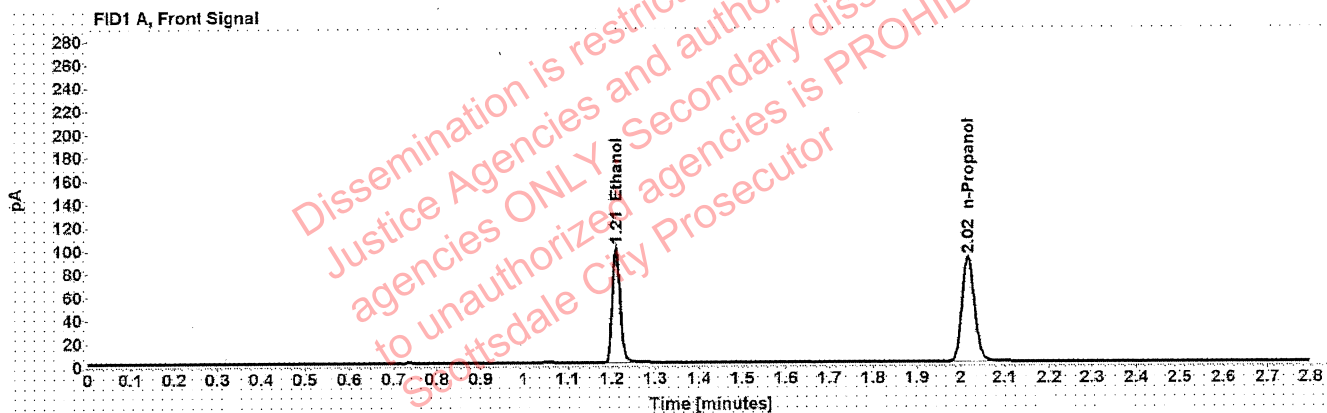


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2019	1.210	127.512
n-Propanol	-----	2.016	181.183

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

Compound	Time (min)	Peak Area
Ethanol	1.374	159.397
n-Propanol	2.468	222.584



# Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	111020WB	Vial:	45
Description:	Negative	LIMS ID:	
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 7:12:27 PM
Data file:	C:\Chem32\1\Data\15Dec20\45.D	Analyst:	Abbott <span style="float: right;">JA</span>

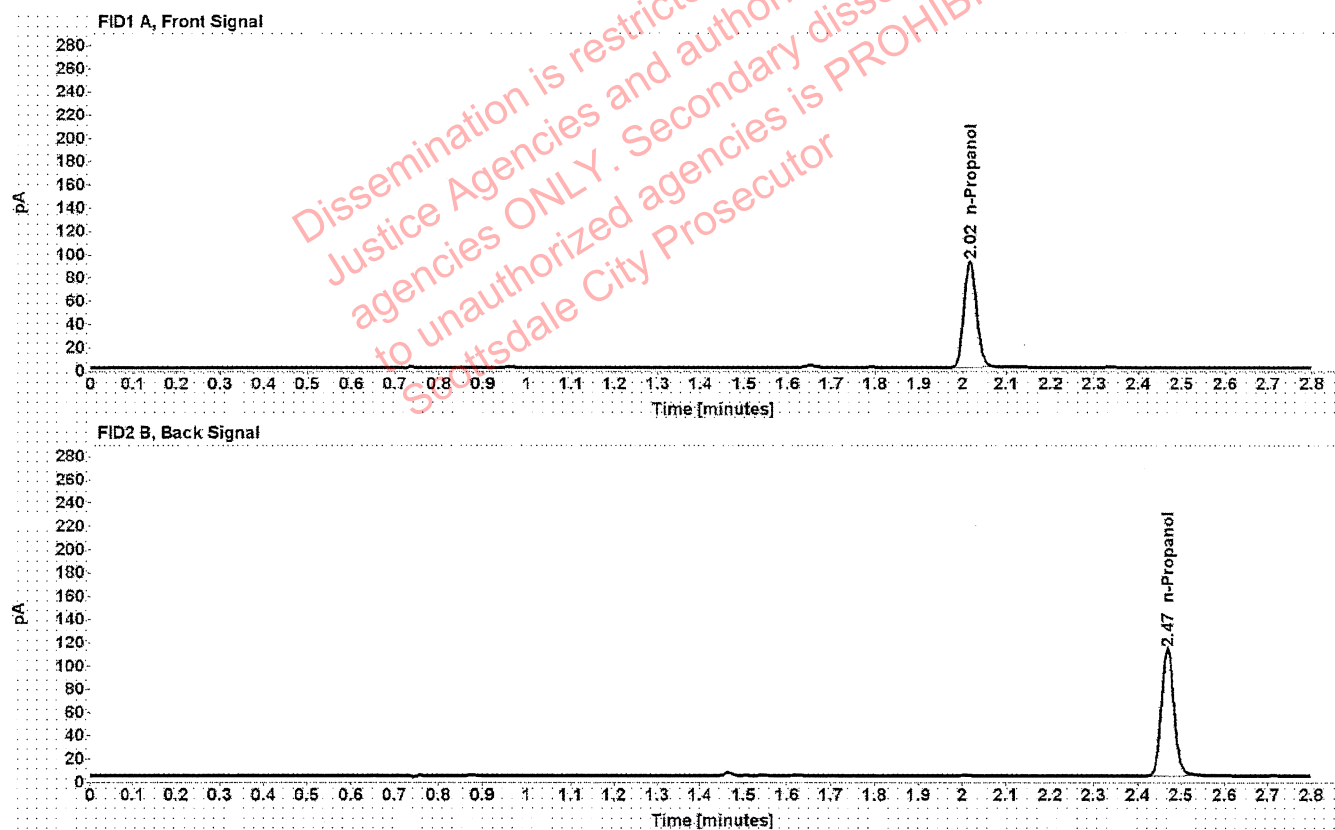


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	182.384

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

Compound	Time (min)	Peak Area
n-Propanol	2.468	223.936

# Sequence Summary

Sequence name: 15Dec20      Instrument: US14173023 CN14160045      Analyst: Abbott *JA*

Vial	Sample	Description	Type	LIMS ID	Method
1	FN06141806	0.020 calibrator	Calibration		ethanol quant.M
2	FN05311902	0.100 calibrator	Calibration		ethanol quant.M
3	FN05101903	0.200 calibrator	Calibration		ethanol quant.M
4	FN10051906	0.400 calibrator	Calibration		ethanol quant.M
5	071420AQ	Negative	Control		ethanol quant.M
6	070819MIX	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	31001SB		Sample		ethanol quant.M
11	31001SB		Sample		ethanol quant.M
12	28501CB		Sample		ethanol quant.M
13	28501CB		Sample		ethanol quant.M
14	31801AB		Sample		ethanol quant.M
15	31801AB		Sample		ethanol quant.M
16	36201RA		Sample		ethanol quant.M
17	36201RA		Sample		ethanol quant.M
18	32601LJ		Sample		ethanol quant.M
19	32601LJ		Sample		ethanol quant.M
20	03102016-A/1	0.080	Control		ethanol quant.M
21	1327889		Sample		ethanol quant.M
22	1327889		Sample		ethanol quant.M
23	1327528		Sample		ethanol quant.M
24	1327528		Sample		ethanol quant.M
25	1349193		Sample		ethanol quant.M
26	1349193		Sample		ethanol quant.M
27	1350138		Sample		ethanol quant.M
28	1350138		Sample		ethanol quant.M
29	1350145		Sample		ethanol quant.M
30	1350145		Sample		ethanol quant.M
31	03102016-A/1	0.080	Control		ethanol quant.M
32	1349585		Sample		ethanol quant.M
33	1349585		Sample		ethanol quant.M
34	1350748		Sample		ethanol quant.M
35	1350748		Sample		ethanol quant.M
36	1350273		Sample		ethanol quant.M
37	1350273		Sample		ethanol quant.M
38	1350309		Sample		ethanol quant.M
39	1350309		Sample		ethanol quant.M
40	1350861		Sample		ethanol quant.M
41	1350861		Sample		ethanol quant.M
42	11092018-A	0.400	Control		ethanol quant.M
43	14082019-B	0.040	Control		ethanol quant.M
44	407041529/13	0.198	Control		ethanol quant.M
45	111020WB	Negative	Control		ethanol quant.M

# Scottsdale Police Department Crime Laboratory Summary of Cases

SEQUENCE NAME: 15Dec20

ANALYST: Abbott 

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.1800	0.1772	0.17860	0.78	0.00140
12 13	0.0801	0.0804	0.08025	0.19	0.00015
14 15	0.3196	0.3212	0.32040	0.25	0.00080
16 17	0.2409	0.2393	0.24010	0.33	0.00080
18 19	0.2225	0.2220	0.22225	0.11	0.00025
21 22	0.1119	0.1117	0.11180	0.09	0.00010
23 24	0.1466	0.1468	0.14670	0.07	0.00010
25 26	0.1438	0.1434	0.14360	0.14	0.00020
27 28	0.2019	0.2014	0.20165	0.12	0.00025
29 30	0.0698	0.0702	0.07000	0.29	0.00020
32 33	0.2448	0.2458	0.24530	0.20	0.00050
34 35	0.2482	0.2489	0.24855	0.14	0.00035
36 37	0.1729	0.1726	0.17275	0.09	0.00015
38 39	0.0000	0.0000	0.00000	0.00	0.00000
40 41	0.2027	0.1999	0.20130	0.70	0.00140

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

# Scottsdale Forensic Lab

## Blood Alcohol Pipetting Log

ANALYST: Abbott *JA*

SEQUENCE: 15Dec20

Instrument Position	Headspace Vial 1	Headspace Vial 2	Blood Tube	Barcode Match
Vials 10 and 11	31001SB	31001SB	31001SB	Yes
Vials 12 and 13	28501CB	28501CB	28501CB	Yes
Vials 14 and 15	31801AB	31801AB	31801AB	Yes
Vials 16 and 17	36201RA	36201RA	36201RA	Yes
Vials 18 and 19	32601LJ	32601LJ	32601LJ	Yes
Vials 21 and 22	1327889	1327889	1327889	Yes
Vials 23 and 24	1327528	1327528	1327528	Yes
Vials 25 and 26	1349193	1349193	1349193	Yes
Vials 27 and 28	1350138	1350138	1350138	Yes
Vials 29 and 30	1350145	1350145	1350145	Yes
Vials 32 and 33	1349585	1349585	1349585	Yes
Vials 34 and 35	1350748	1350748	1350748	Yes
Vials 36 and 37	1350273	1350273	1350273	Yes
Vials 38 and 39	1350309	1350309	1350309	Yes
Vials 40 and 41	1350861	1350861	1350861	Yes



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	31001SB	Vial:	10
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 4:50:57 PM
Data file:	C:\Chem32\1\Data\15Dec20\10.D	Analyst:	Abbott

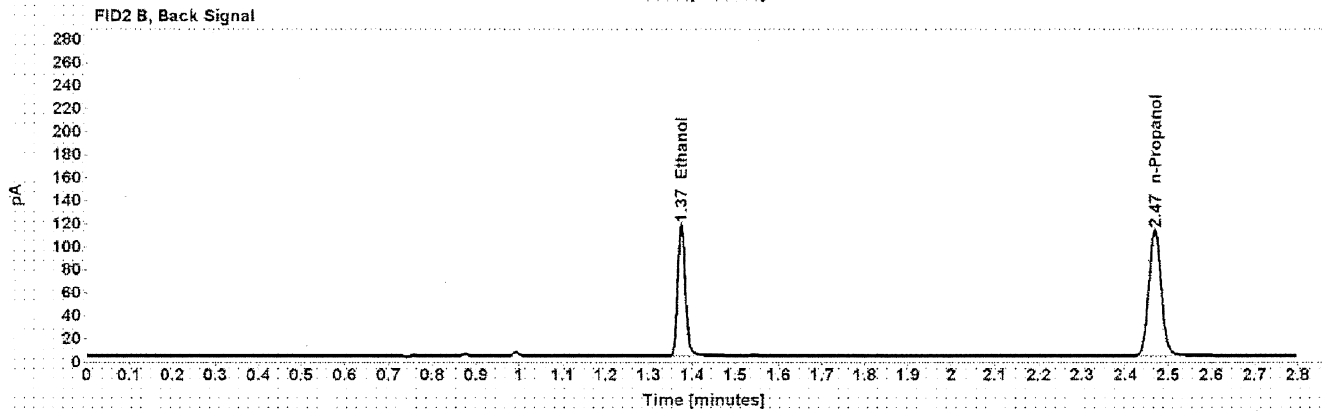
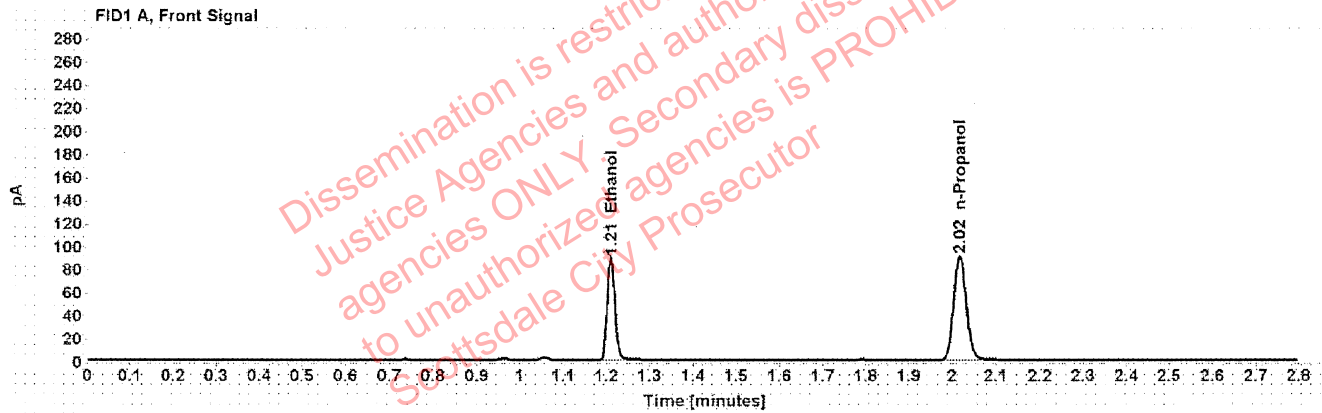


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1800	1.210	113.035
n-Propanol	-----	2.017	180.278

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

Compound	Time (min)	Peak Area
Ethanol	1.375	140.958
n-Propanol	2.468	222.018

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	31001SB	Vial:	11
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 4:54:57 PM
Data file:	C:\Chem32\1\Data\15Dec20\11.D	Analyst:	Abbott

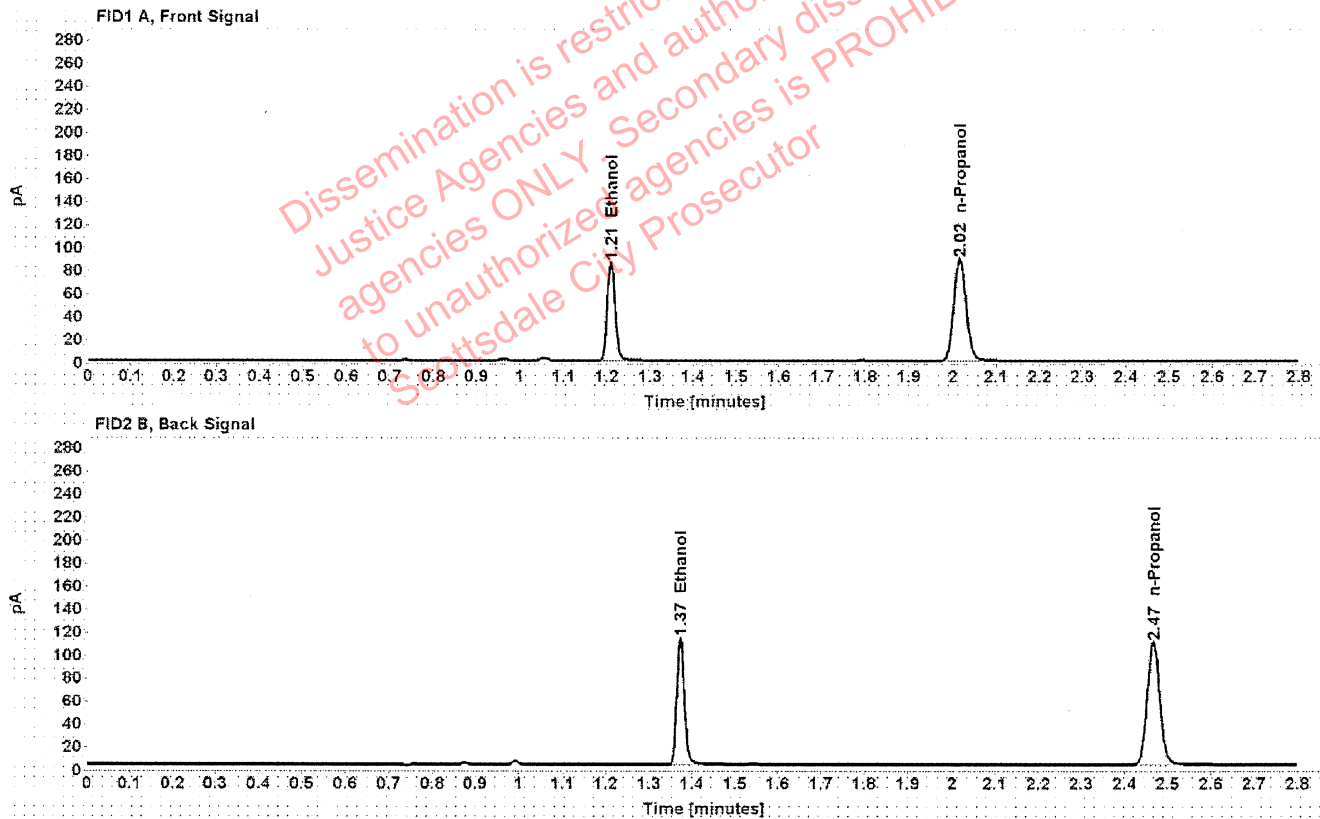


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1772	1.209	109.177
n-Propanol	-----	2.016	176.923

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

Compound	Time (min)	Peak Area
Ethanol	1.373	135.978
n-Propanol	2.466	217.585



## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	28501CB	Vial:	12
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 4:58:57 PM
Data file:	C:\Chem32\1\Data\15Dec20\12.D	Analyst:	Abbott

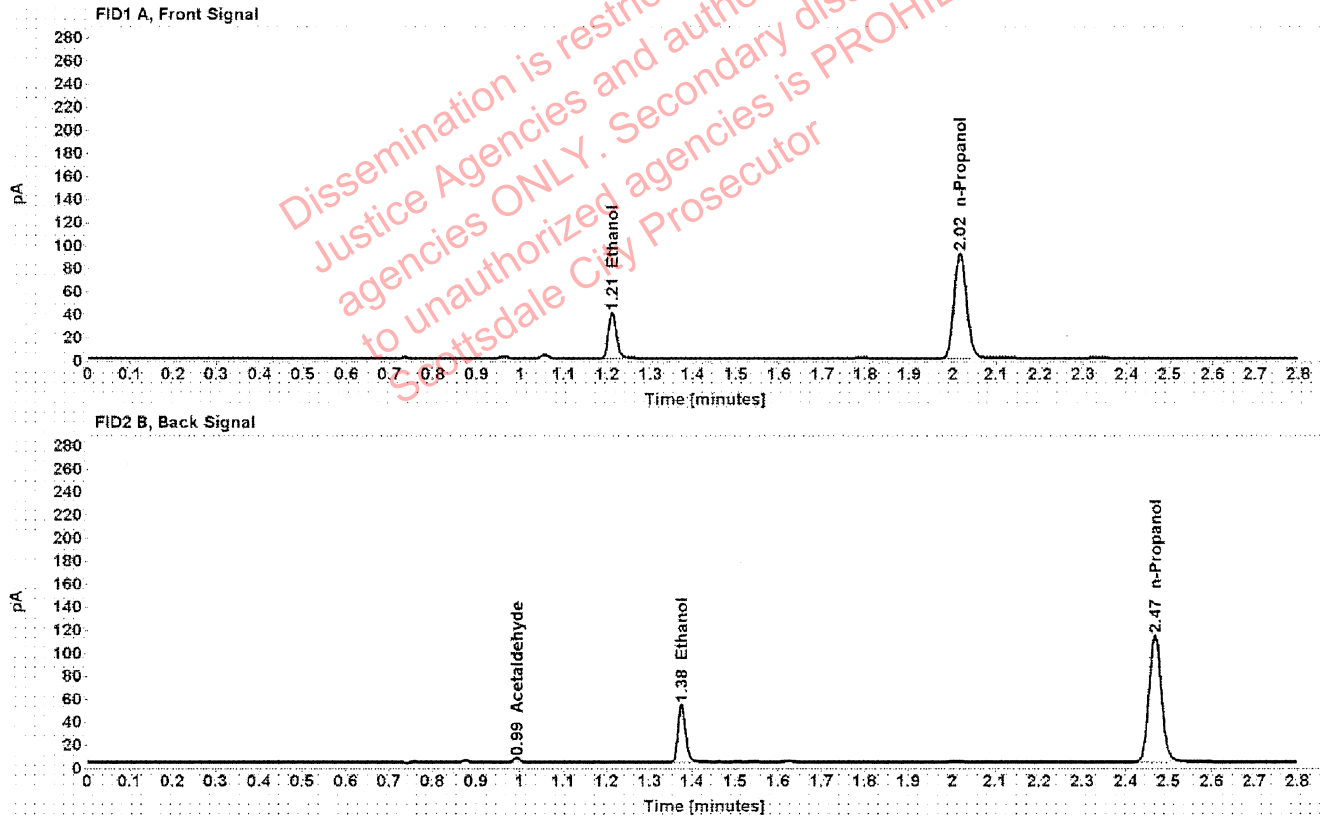


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0801	1.211	50.322
n-Propanol	-----	2.017	182.157

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	3.976
Ethanol	1.375	62.358
n-Propanol	2.468	224.862

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	28501CB	Vial:	13
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:03:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\13.D	Analyst:	Abbott

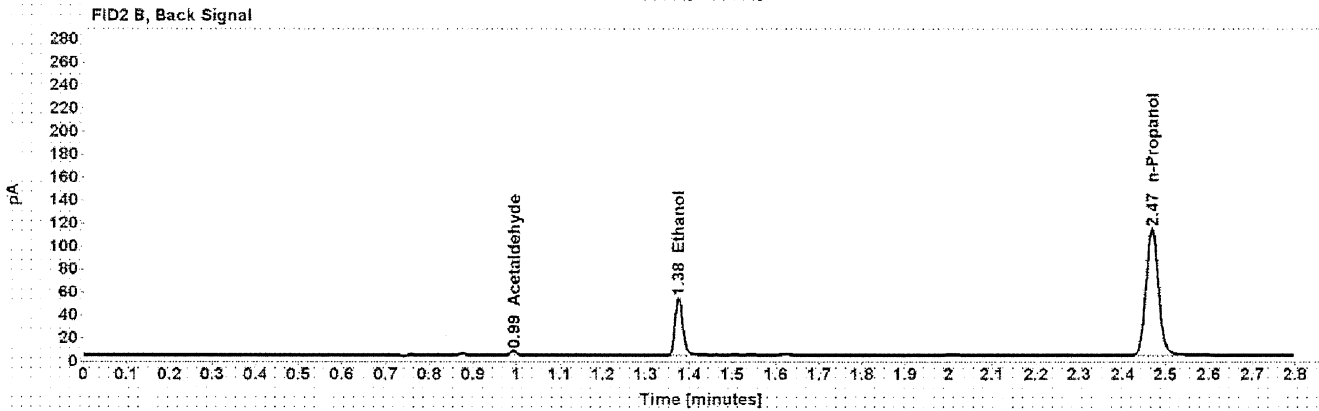
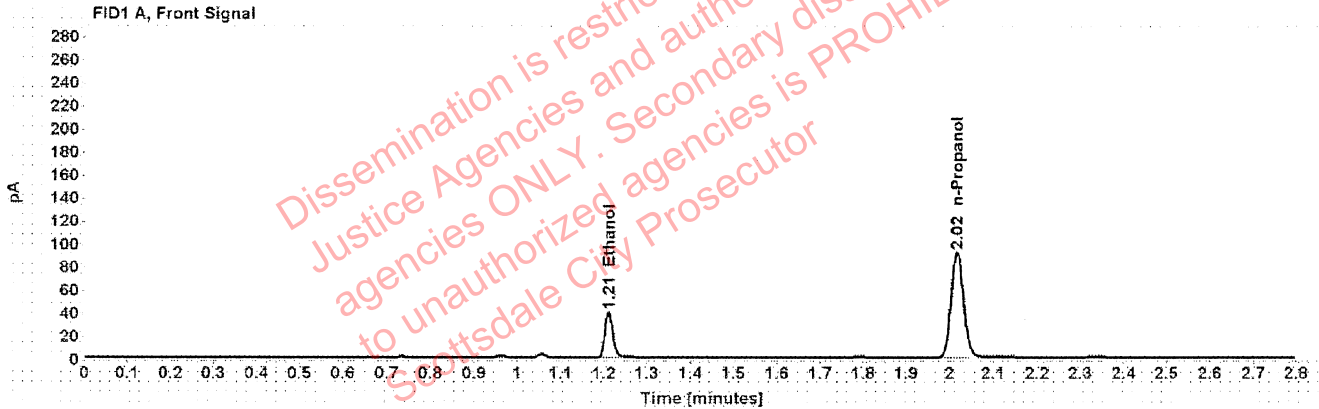


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0804	1.211	50.417
n-Propanol	-----	2.017	181.788

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	3.921
Ethanol	1.375	62.419
n-Propanol	2.468	224.445

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	31801AB	Vial:	14
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:07:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\14.D	Analyst:	Abbott

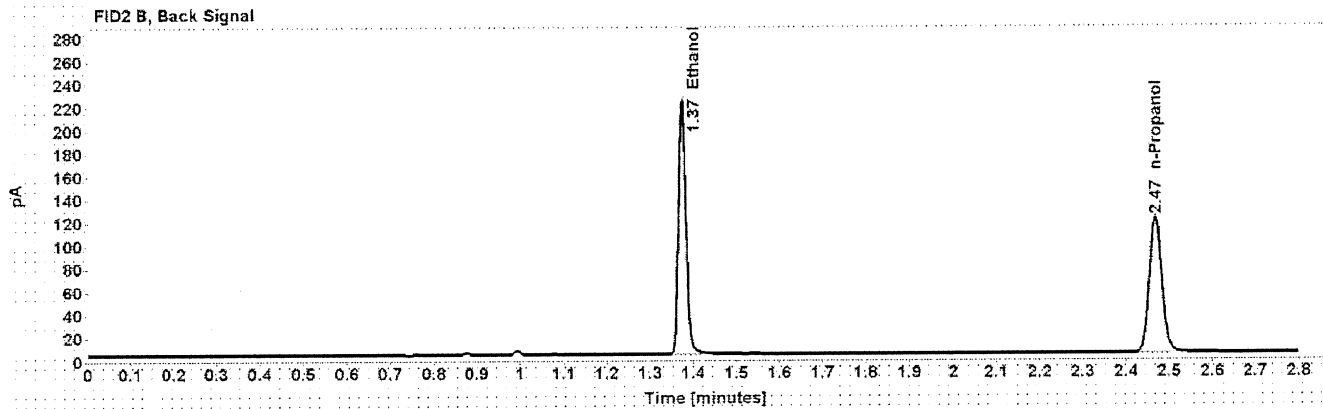
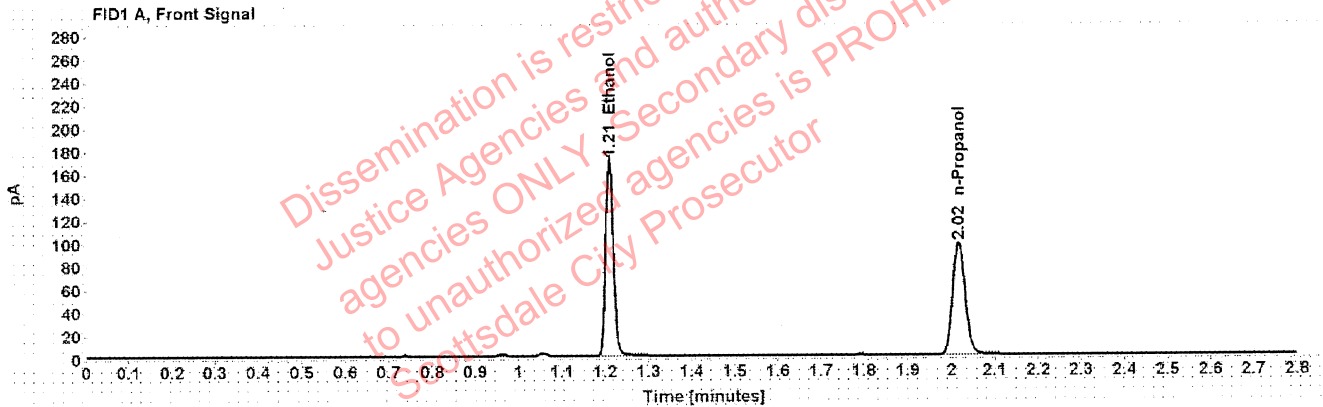


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3196	1.210	216.905
n-Propanol	-----	2.017	194.199

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

Compound	Time (min)	Peak Area
Ethanol	1.375	271.654
n-Propanol	2.468	239.383

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	31801AB	Vial:	15
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:11:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\15.D	Analyst:	Abbott

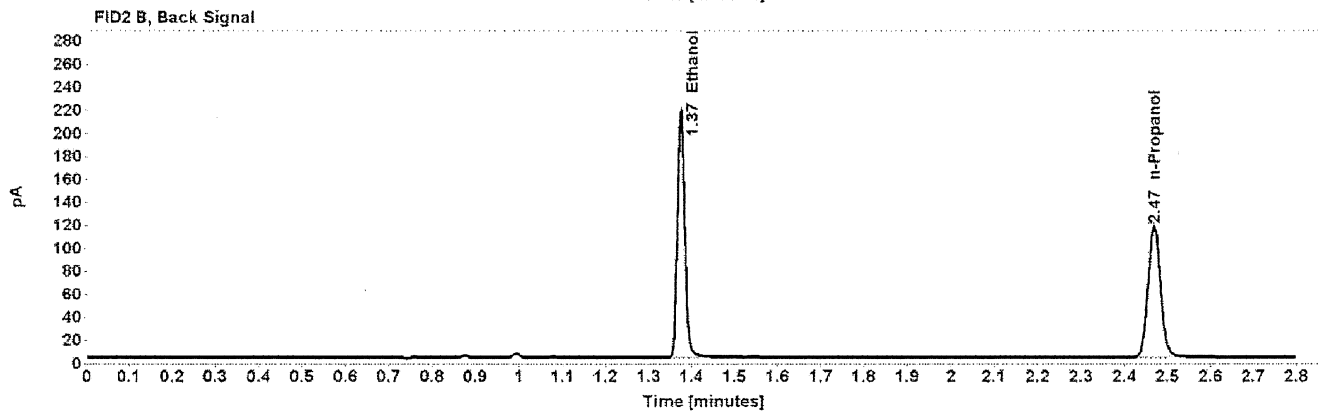
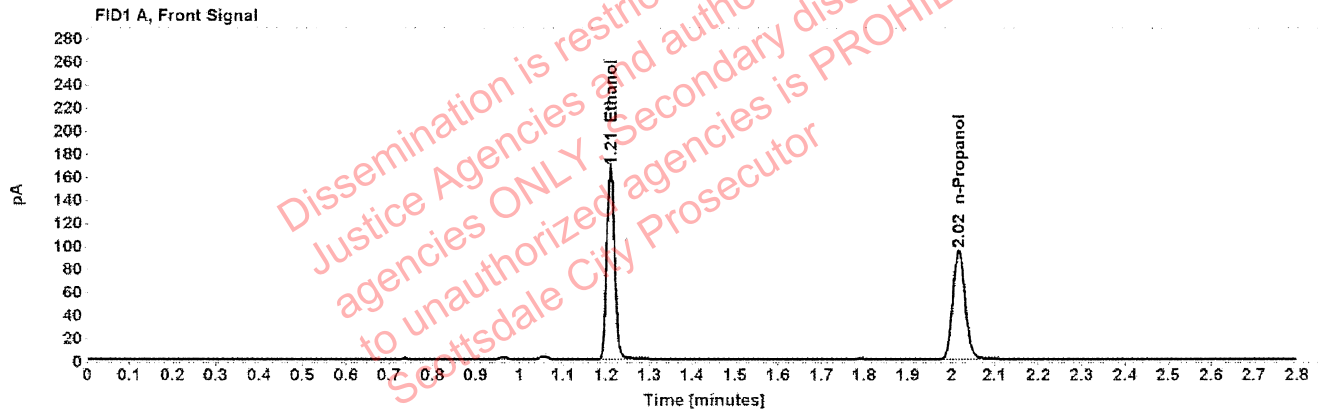


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3212	1.210	211.503
n-Propanol	-----	2.017	188.436

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

Compound	Time (min)	Peak Area
Ethanol	1.375	264.953
n-Propanol	2.468	232.063

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	36201RA	Vial:	16
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:15:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\16.D	Analyst:	Abbott

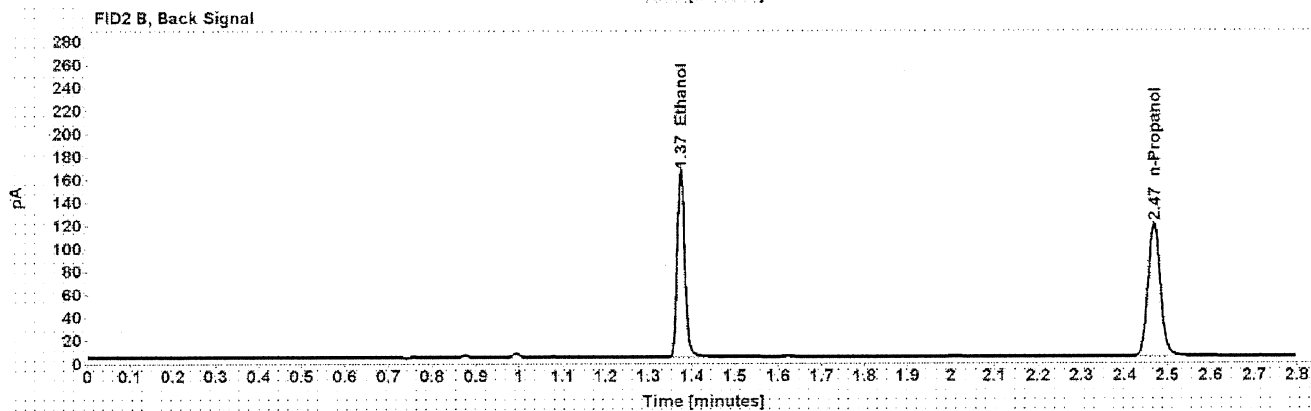
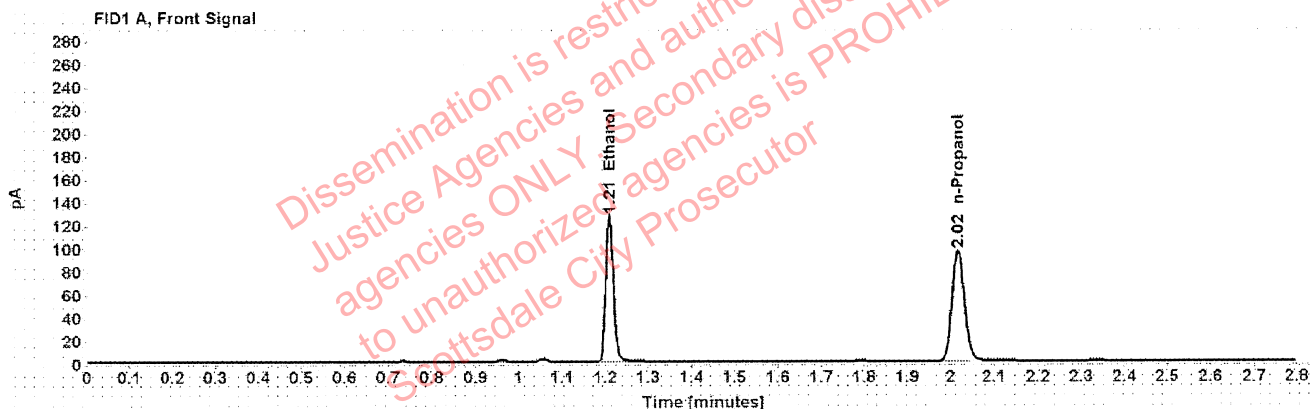


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2409	1.210	160.476
n-Propanol	-----	2.017	190.860

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

Compound	Time (min)	Peak Area
Ethanol	1.375	201.946
n-Propanol	2.469	235.455

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	36201RA	Vial:	17
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:19:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\17.D	Analyst:	Abbott

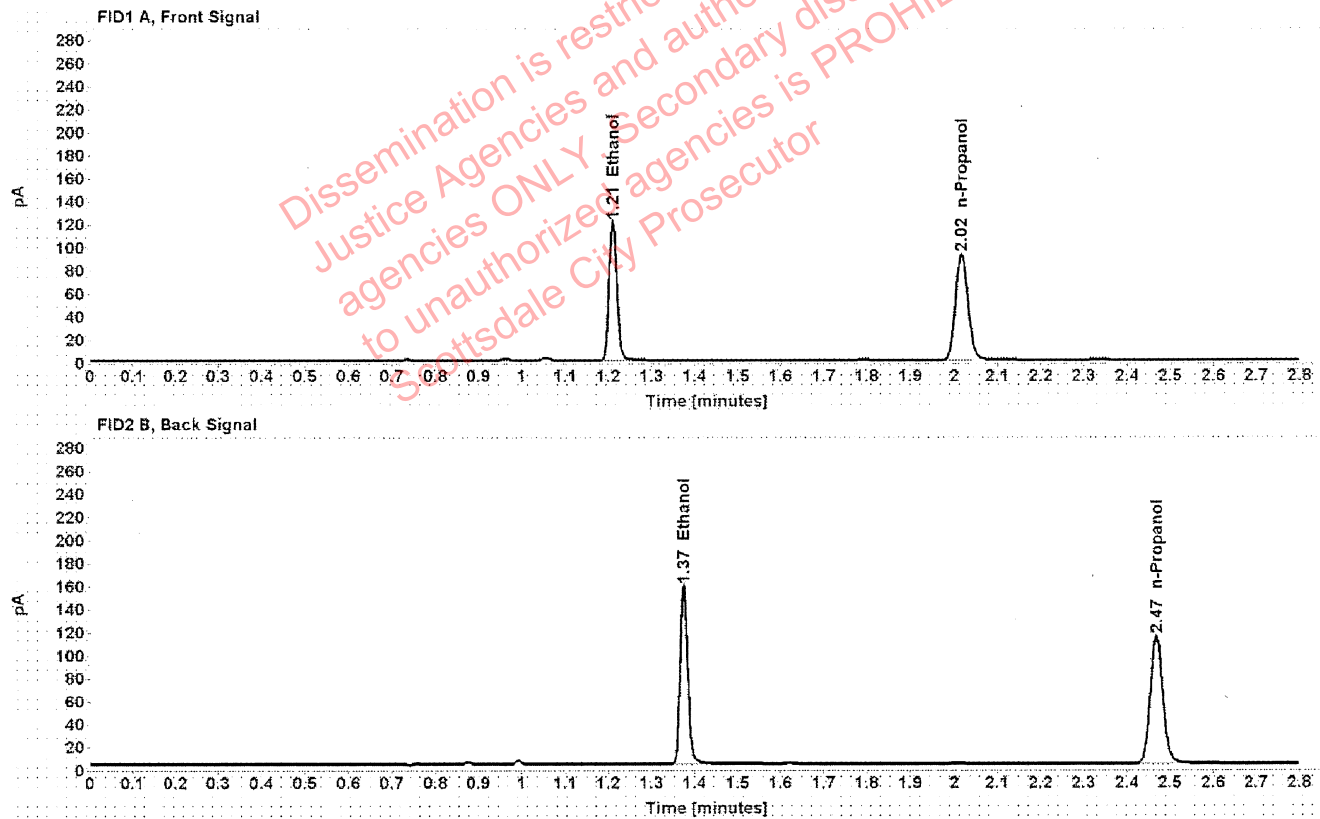


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2393	1.210	153.386
n-Propanol	-----	2.017	183.699

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

Compound	Time (min)	Peak Area
Ethanol	1.375	193.128
n-Propanol	2.468	226.361



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	32601LJ	Vial:	18
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:23:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\18.D	Analyst:	Abbott

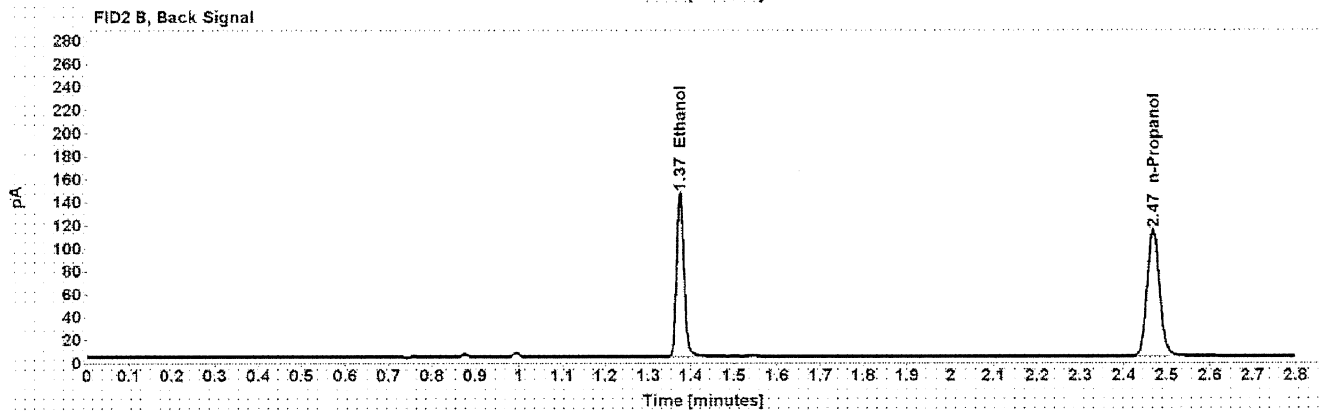
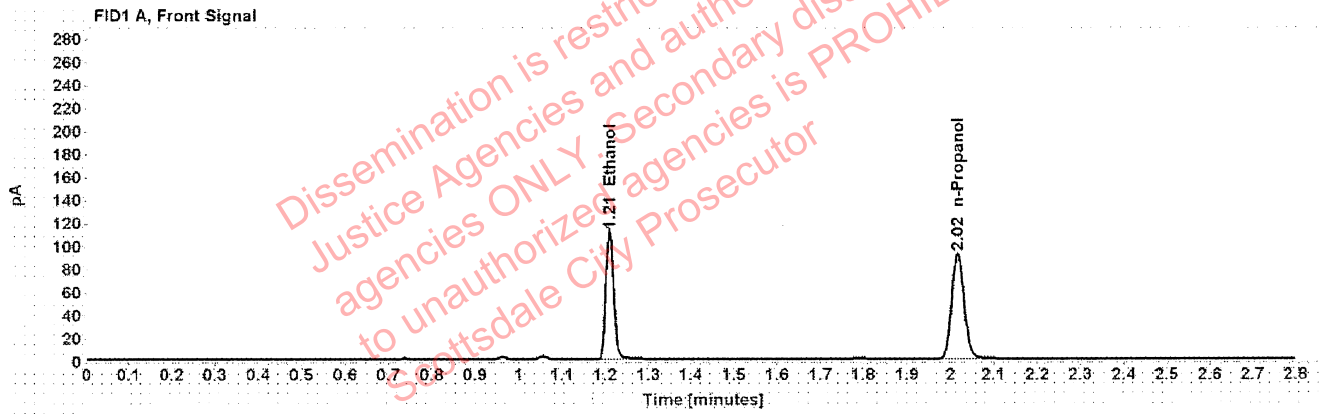


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2225	1.210	141.490
n-Propanol	-----	2.017	182.312

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

Compound	Time (min)	Peak Area
Ethanol	1.375	177.018
n-Propanol	2.468	223.931

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	32601LJ	Vial:	19
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:27:27 PM
Data file:	C:\Chem32\1\Data\15Dec20\19.D	Analyst:	Abbott

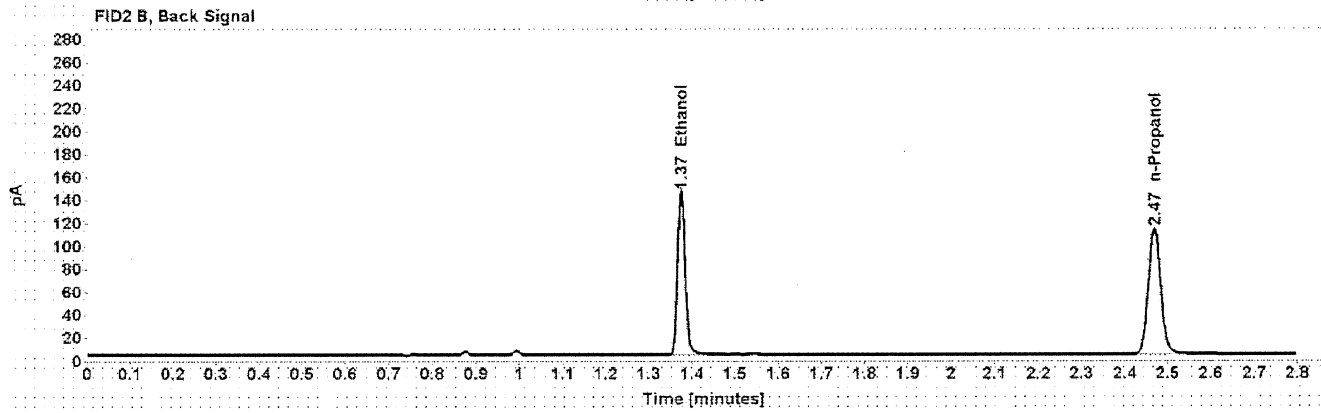
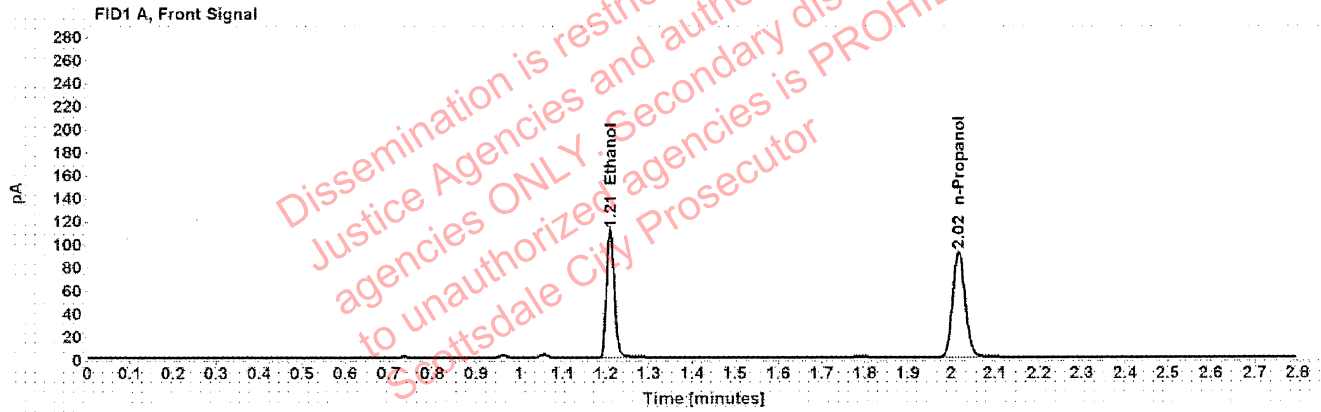


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2220	1.210	140.908
n-Propanol	-----	2.017	182.011

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

Compound	Time (min)	Peak Area
Ethanol	1.375	176.242
n-Propanol	2.468	223.398

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1327889	Vial:	21
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:35:27 PM
Data file:	C:\Chem32\1\Data\15Dec20\21.D	Analyst:	Abbott

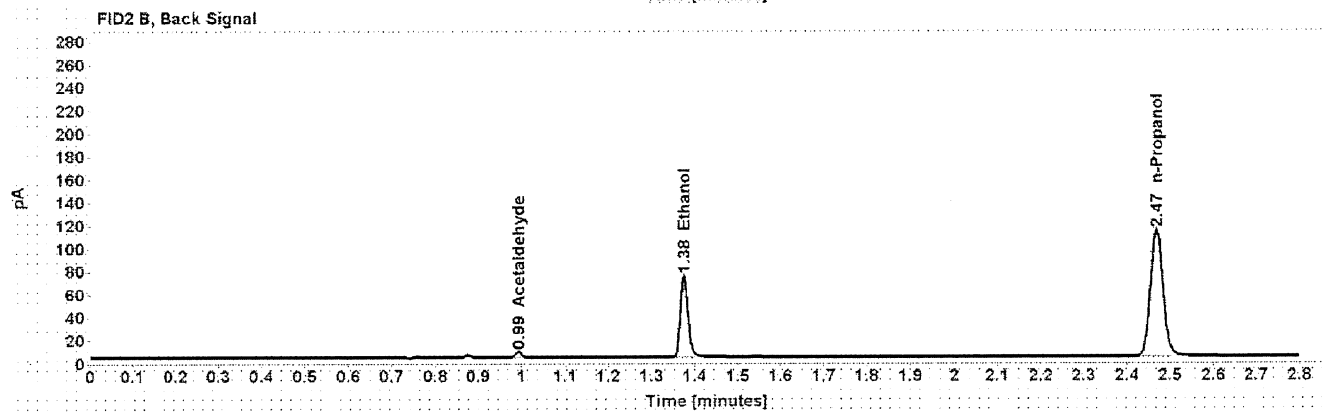
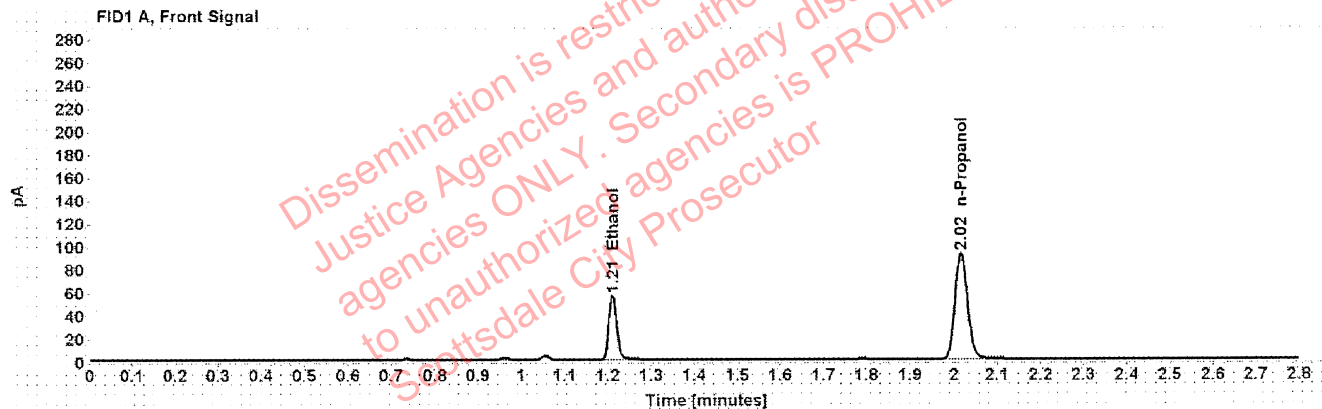


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1119	1.211	71.159
n-Propanol	-----	2.017	183.491

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	4.530
Ethanol	1.375	88.427
n-Propanol	2.468	225.272

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1327889	Vial:	22
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:39:27 PM
Data file:	C:\Chem32\1\Data\15Dec20\22.D	Analyst:	Abbott

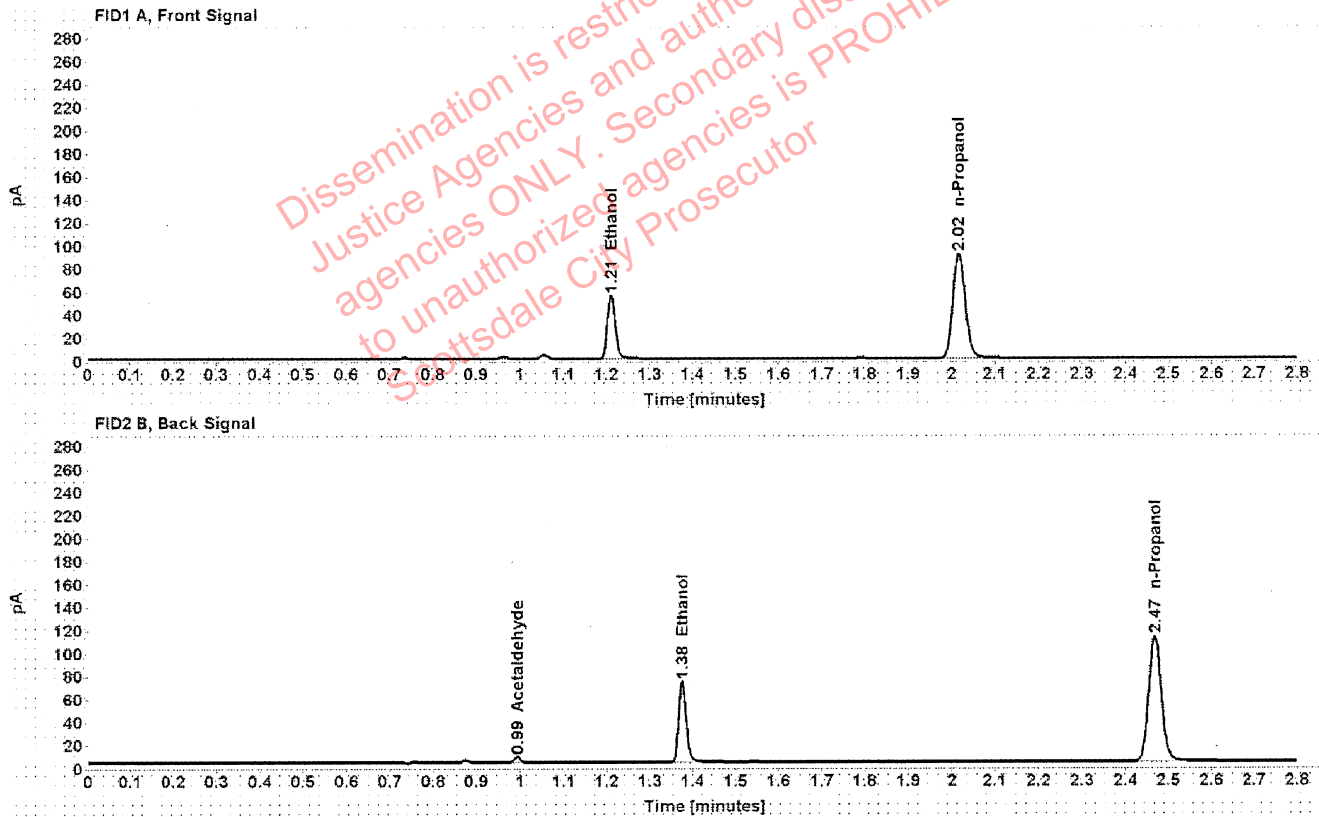


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1117	1.211	70.304
n-Propanol	-----	2.017	181.635

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	4.534
Ethanol	1.375	87.280
n-Propanol	2.468	223.219

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1327528	Vial:	23
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:43:27 PM
Data file:	C:\Chem32\1\Data\15Dec20\23.D	Analyst:	Abbott

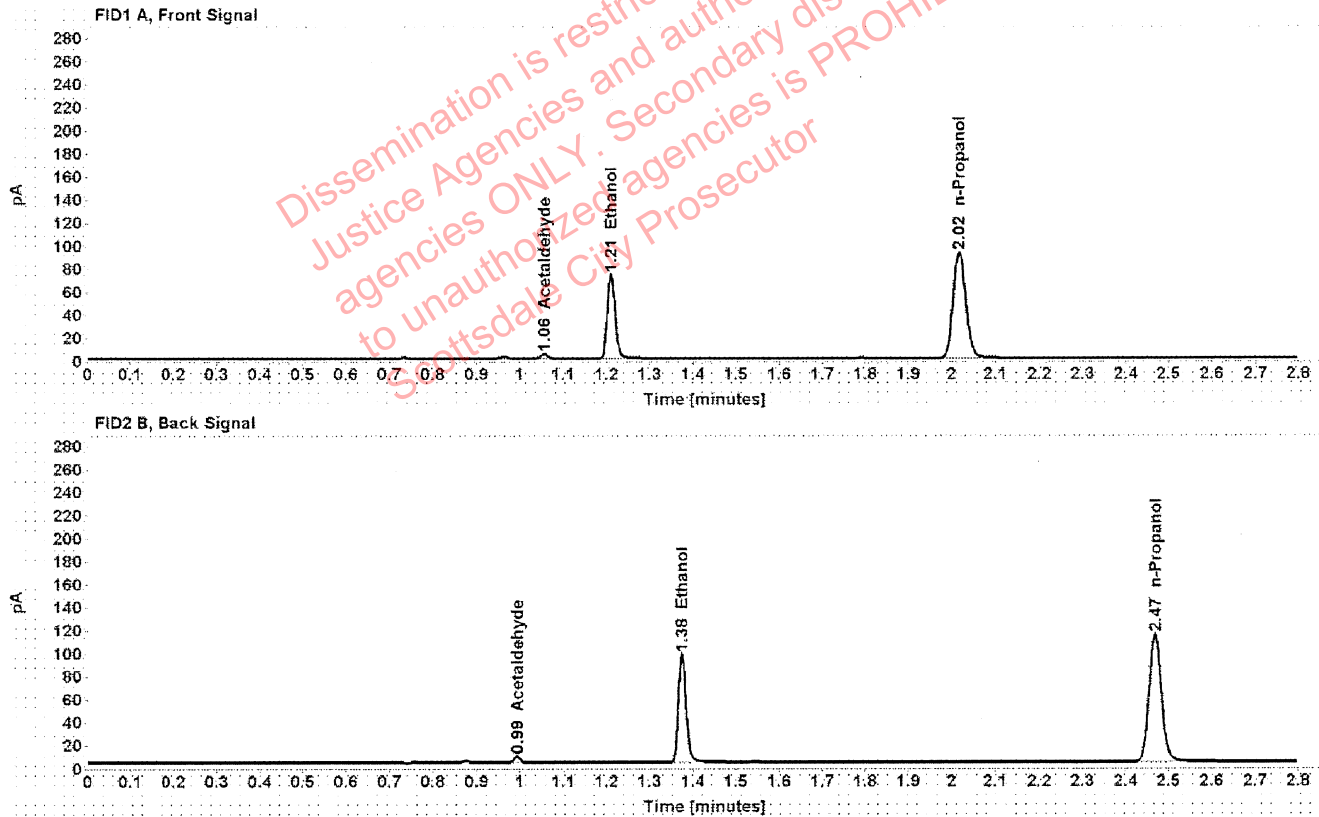


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.056	3.978
>Ethanol	0.1466	1.211	93.655
n-Propanol	-----	2.017	183.717

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	5.200
Ethanol	1.375	116.188
n-Propanol	2.468	225.571

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1327528	Vial:	24
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:47:27 PM
Data file:	C:\Chem32\1\Data\15Dec20\24.D	Analyst:	Abbott

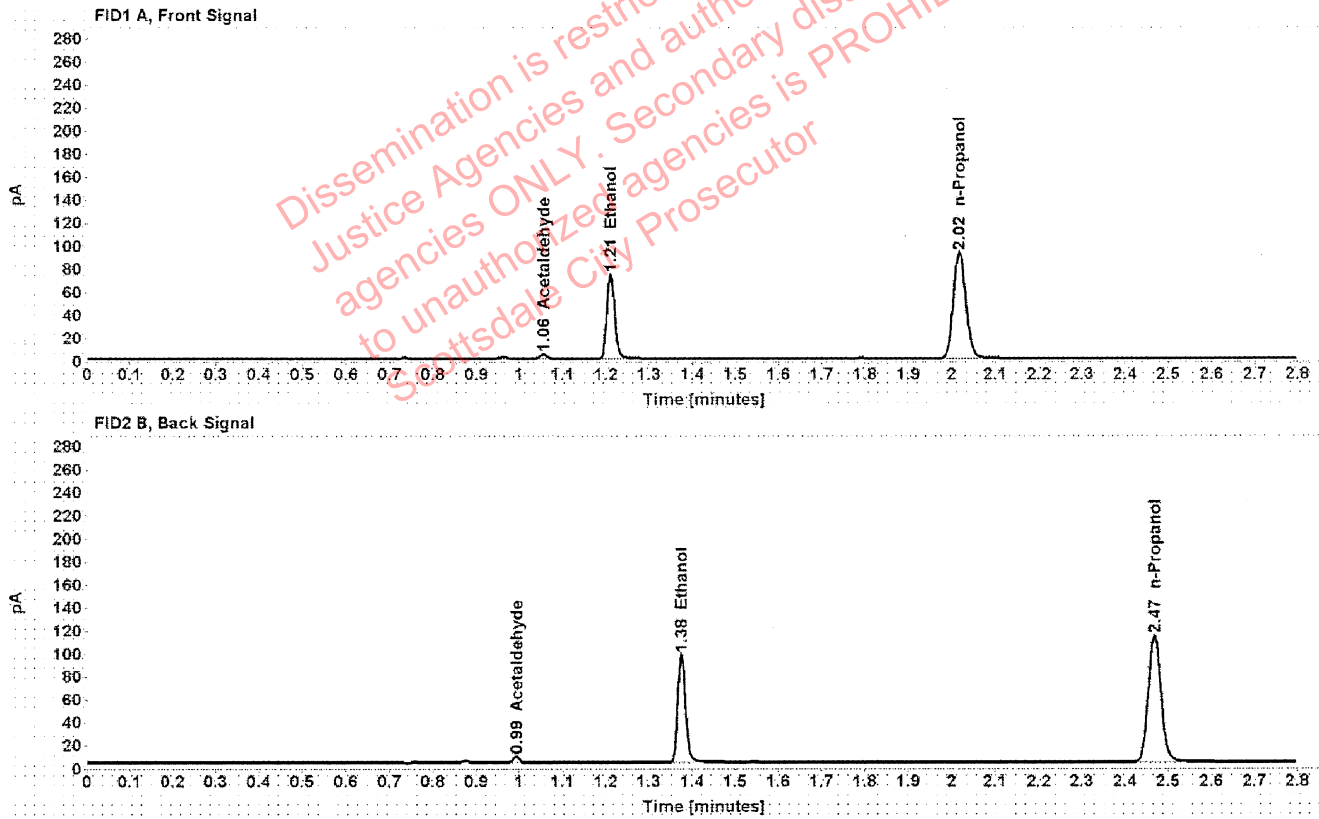


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.056	3.919
>Ethanol	0.1468	1.211	93.900
n-Propanol	-----	2.017	183.948

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	5.124
Ethanol	1.375	116.609
n-Propanol	2.469	226.245

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1349193	Vial:	25
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:51:42 PM
Data file:	C:\Chem32\1\Data\15Dec20\25.D	Analyst:	Abbott

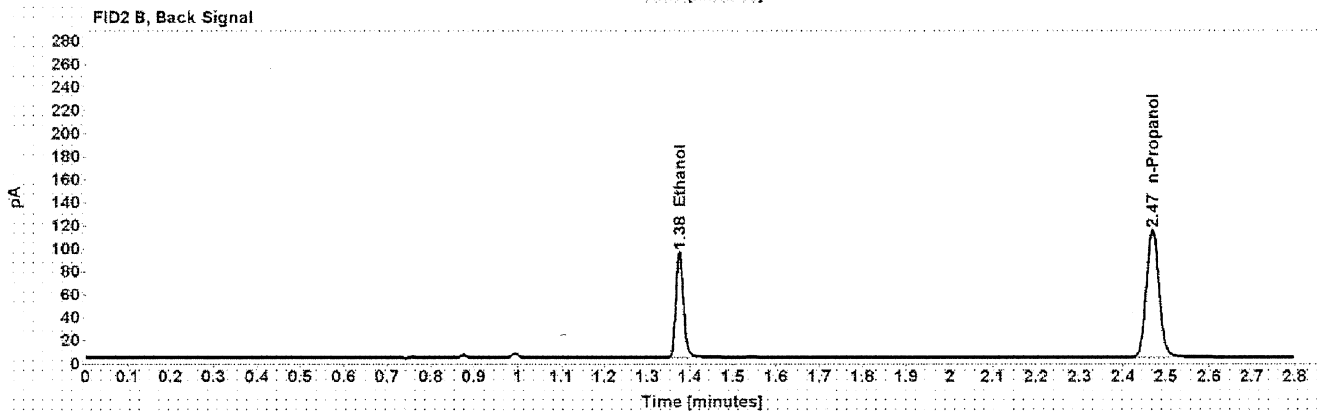
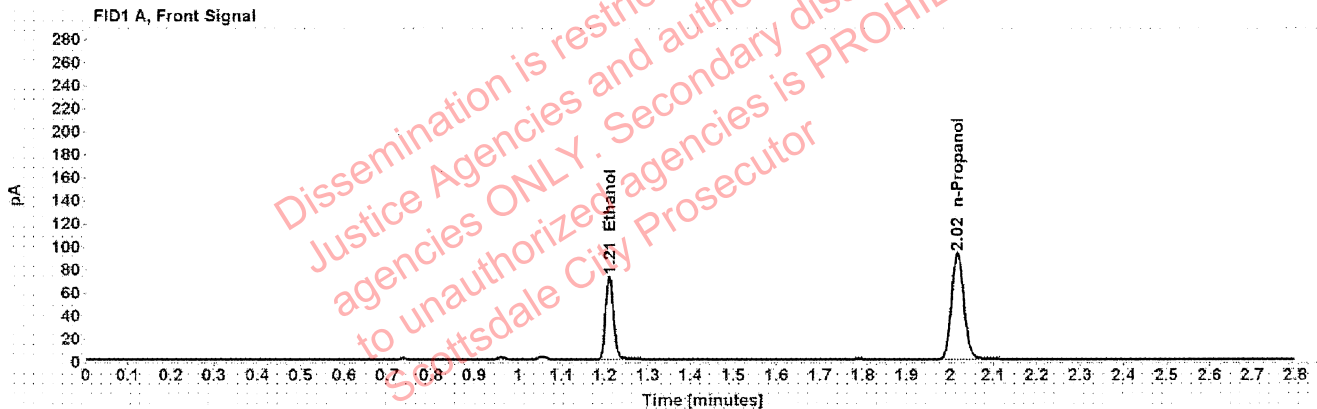


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1438	1.211	92.136
n-Propanol	-----	2.017	184.284

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

Compound	Time (min)	Peak Area
Ethanol	1.375	114.172
n-Propanol	2.469	226.529

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1349193	Vial:	26
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:55:43 PM
Data file:	C:\Chem32\11\Data\15Dec20\26.D	Analyst:	Abbott

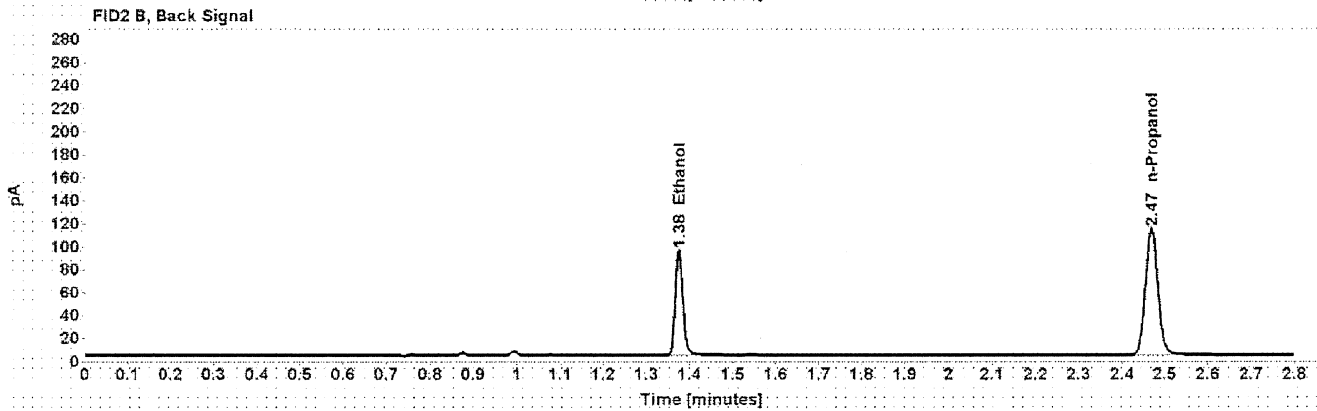
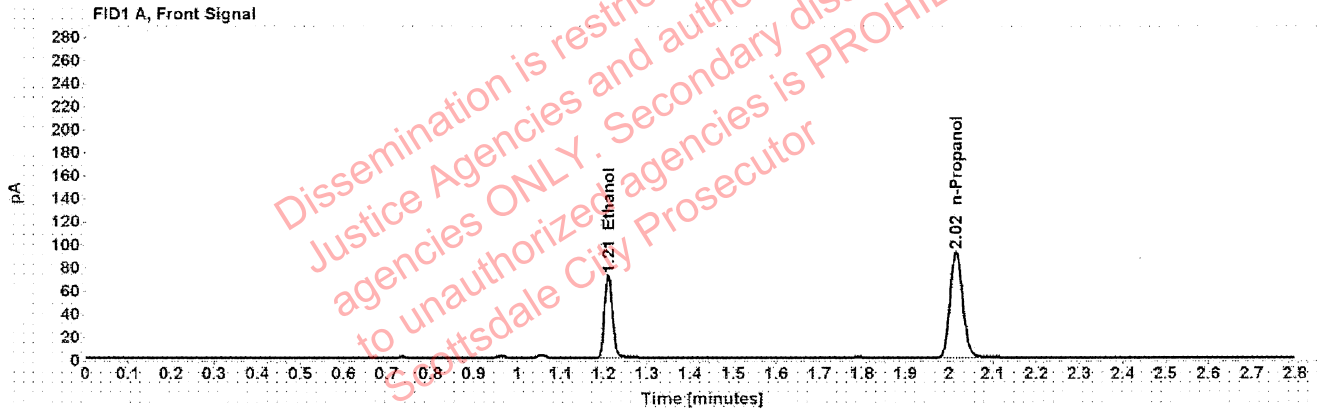


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1434	1.211	91.584
n-Propanol	-----	2.017	183.710

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

Compound	Time (min)	Peak Area
Ethanol	1.375	113.621
n-Propanol	2.468	225.773



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350138	Vial:	27
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 5:59:42 PM
Data file:	C:\Chem32\1\Data\15Dec20\27.D	Analyst:	Abbott

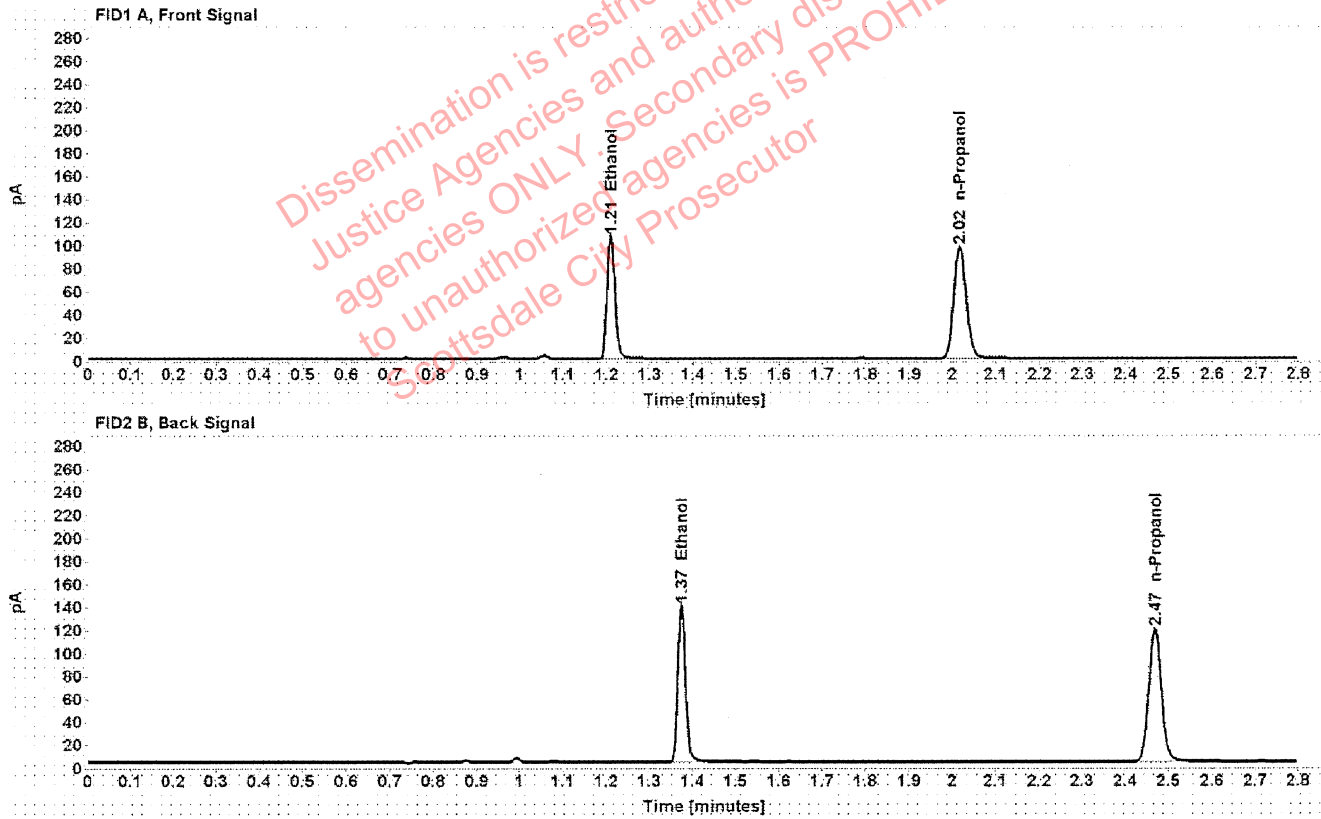


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2019	1.210	135.534
n-Propanol	-----	2.017	192.576

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

Compound	Time (min)	Peak Area
Ethanol	1.375	168.752
n-Propanol	2.469	236.606

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350138	Vial:	28
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:03:42 PM
Data file:	C:\Chem32\1\Data\15Dec20\28.D	Analyst:	Abbott

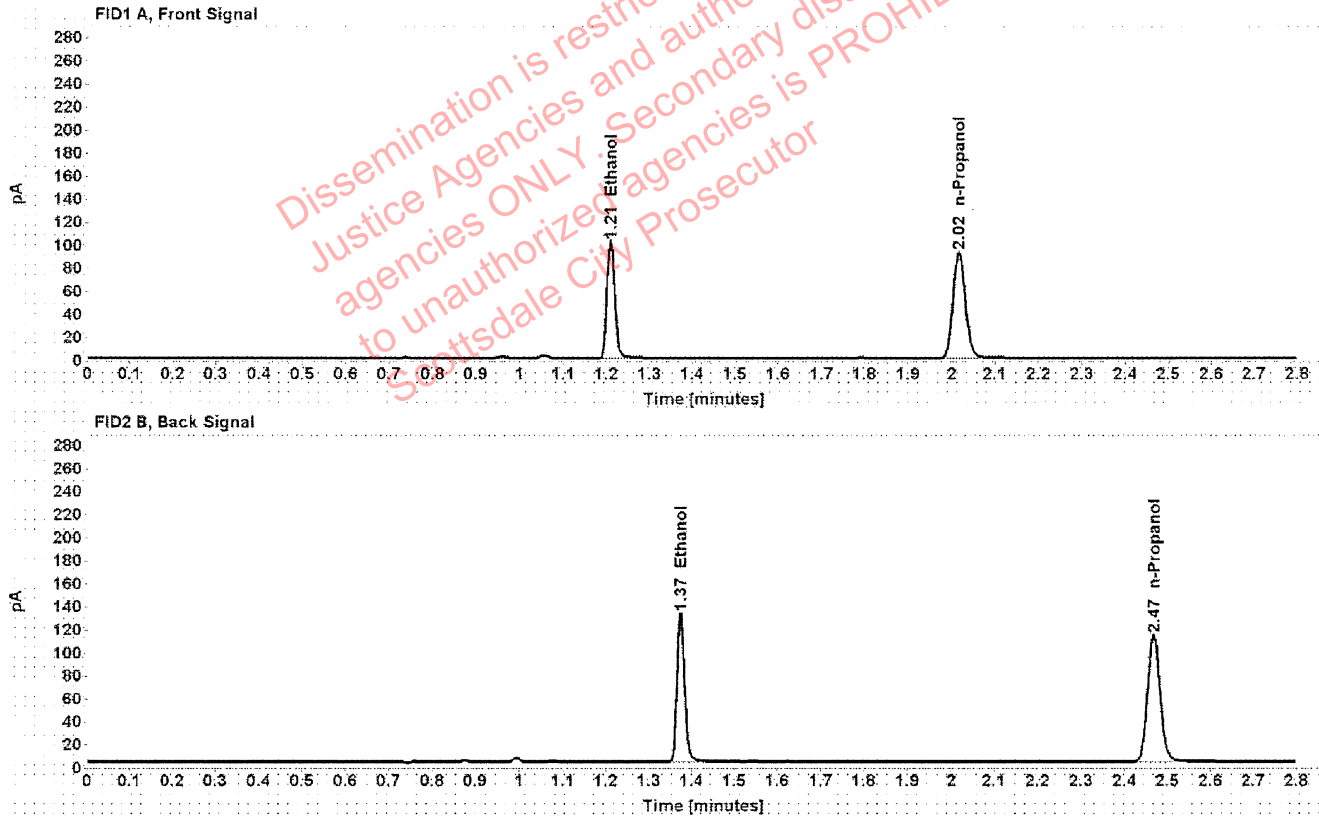


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2014	1.210	128.916
n-Propanol	-----	2.016	183.635

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

Compound	Time (min)	Peak Area
Ethanol	1.374	161.206
n-Propanol	2.468	225.897

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350145	Vial:	29
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:07:42 PM
Data file:	C:\Chem32\1\Data\15Dec20\29.D	Analyst:	Abbott

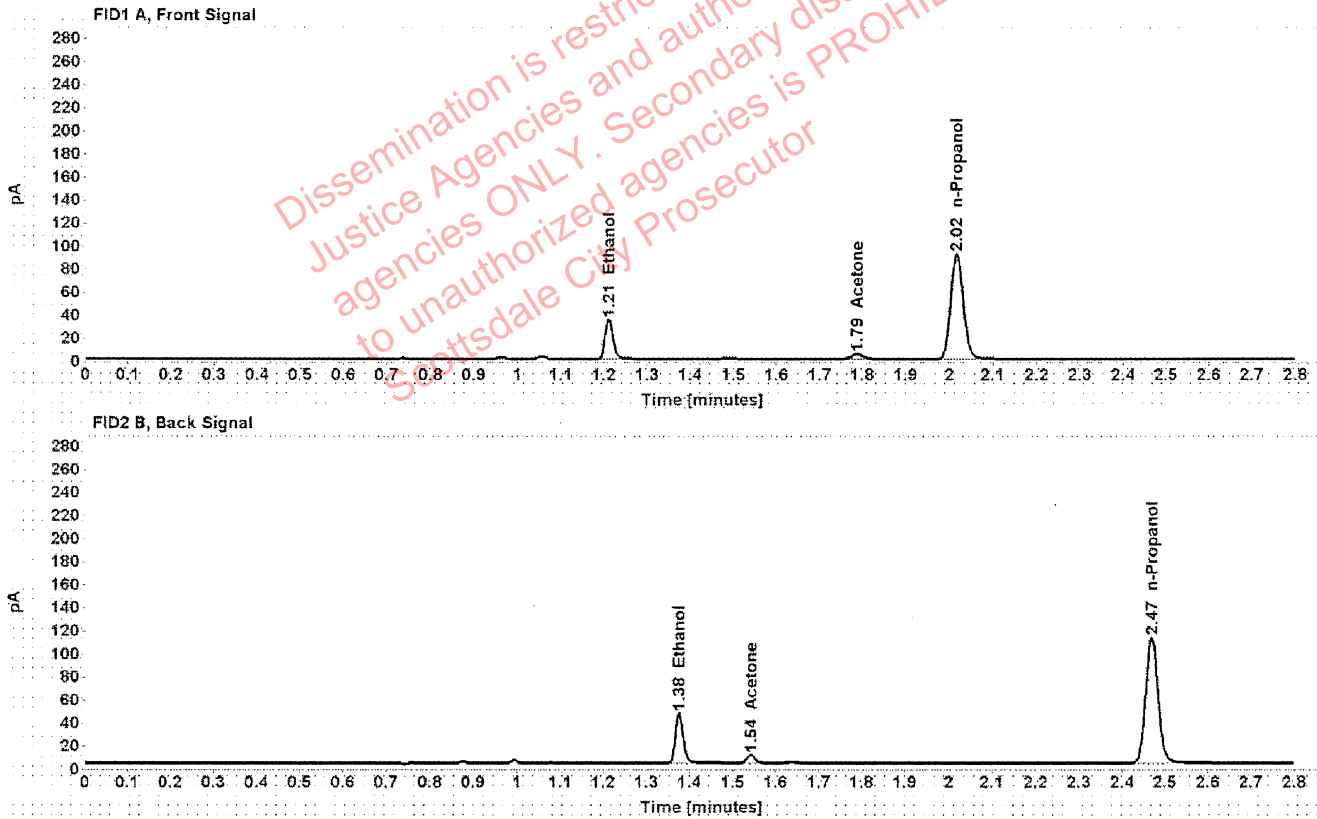


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0698	1.211	43.768
Acetone	-----	1.787	7.615
n-Propanol	-----	2.017	182.330

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

Compound	Time (min)	Peak Area
Ethanol	1.376	54.087
Acetone	1.542	9.280
n-Propanol	2.468	223.771

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350145	Vial:	30
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:11:42 PM
Data file:	C:\Chem32\1\Data\15Dec20\30.D	Analyst:	Abbott

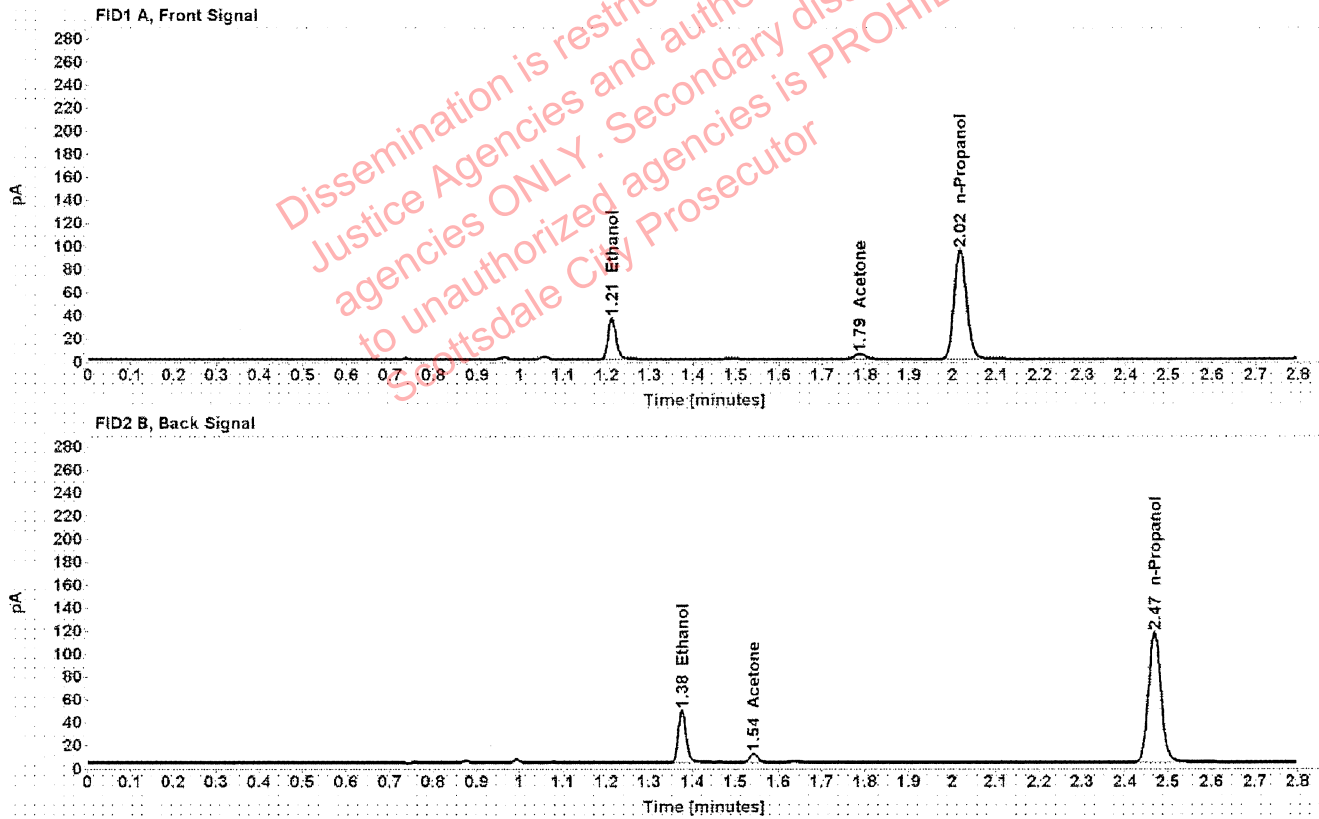


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0702	1.211	45.638
Acetone	-----	1.787	7.758
n-Propanol	-----	2.017	188.919

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

Compound	Time (min)	Peak Area
Ethanol	1.376	56.335
Acetone	1.543	9.456
n-Propanol	2.468	231.916

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1349585	Vial:	32
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:19:57 PM
Data file:	C:\Chem32\1\Data\15Dec20\32.D	Analyst:	Abbott

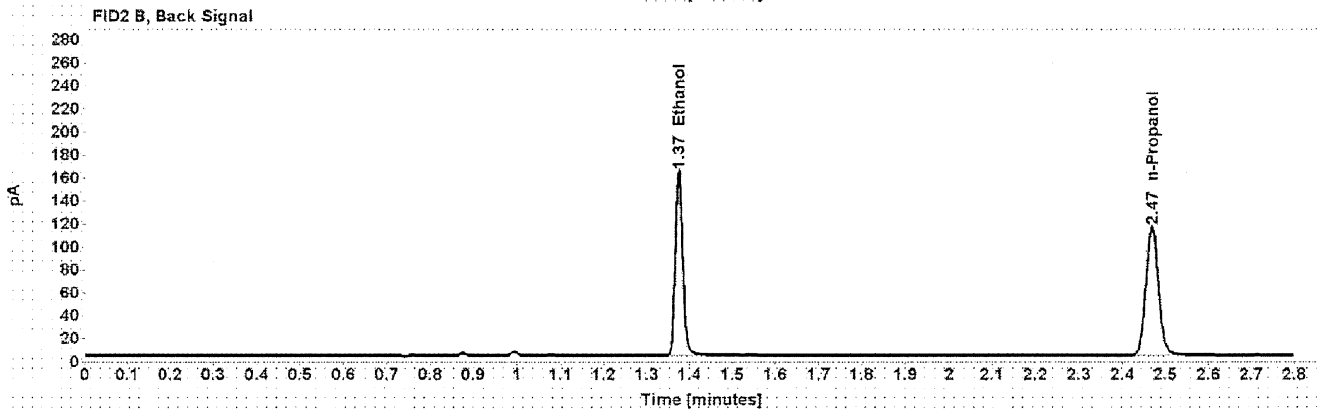
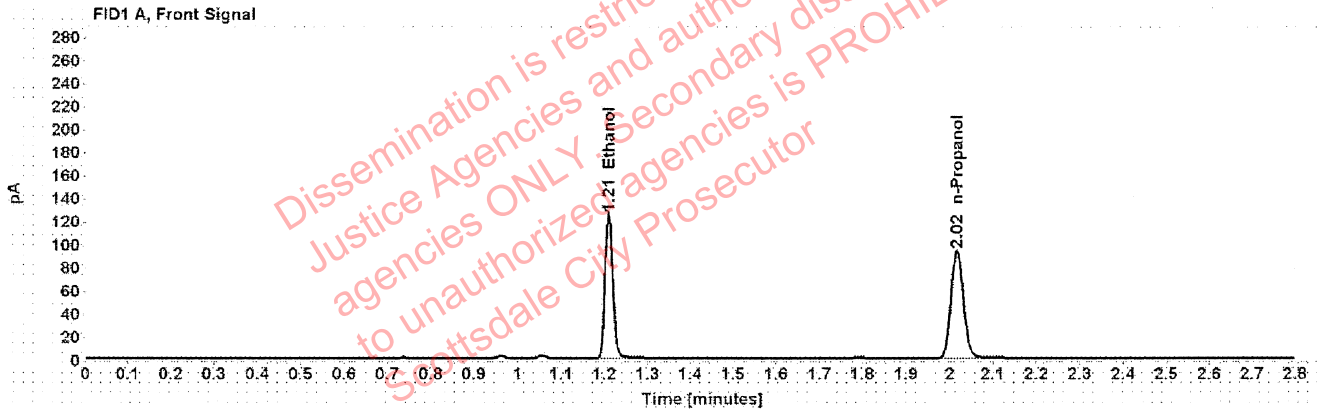


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2448	1.210	159.020
n-Propanol	-----	2.017	186.109

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

Compound	Time (min)	Peak Area
Ethanol	1.375	198.614
n-Propanol	2.468	228.753

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1349585	Vial:	33
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:23:57 PM
Data file:	C:\Chem32\1\Data\15Dec20\33.D	Analyst:	Abbott

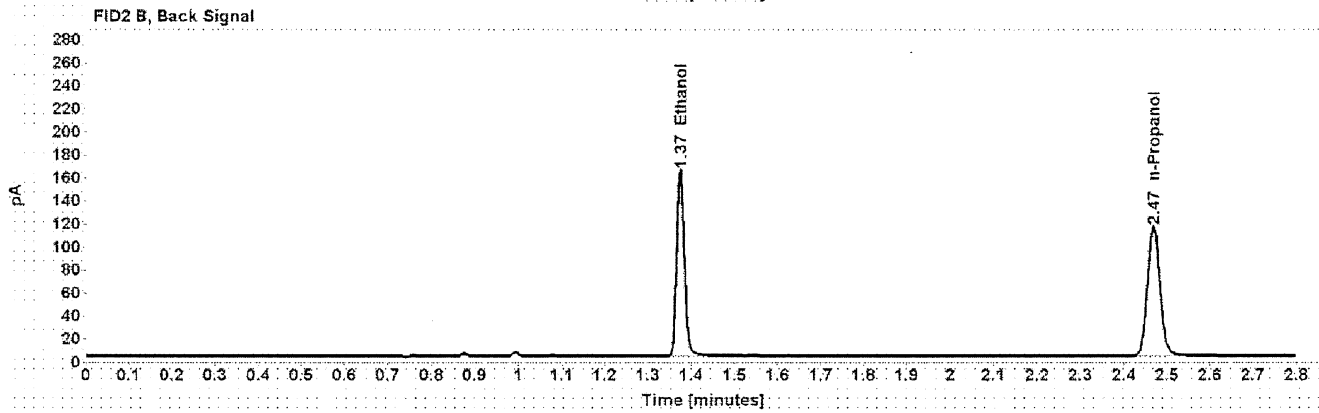
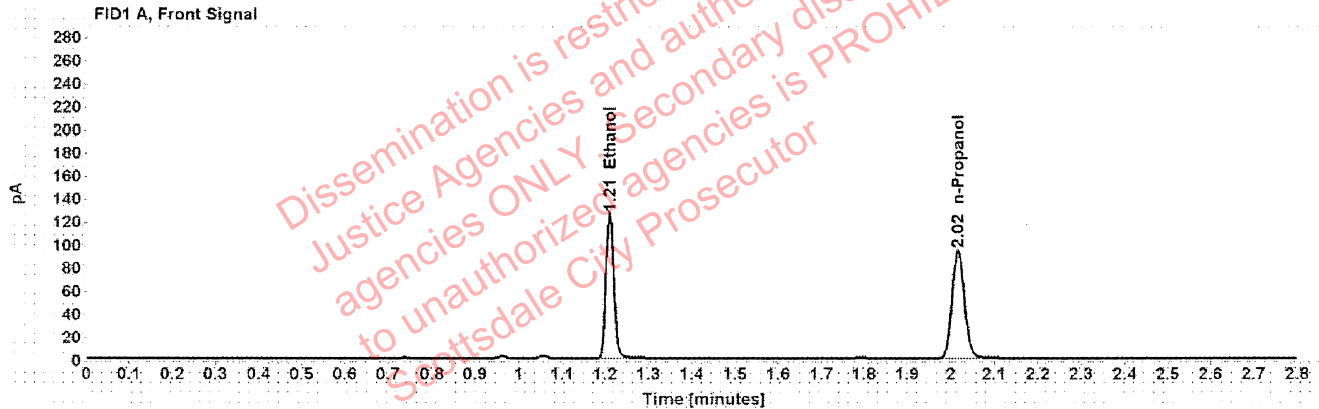


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2458	1.210	159.920
n-Propanol	-----	2.017	186.398

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

Compound	Time (min)	Peak Area
Ethanol	1.375	199.725
n-Propanol	2.468	229.042

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350748	Vial:	34
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:27:57 PM
Data file:	C:\Chem32\1\Data\15Dec20\34.D	Analyst:	Abbott

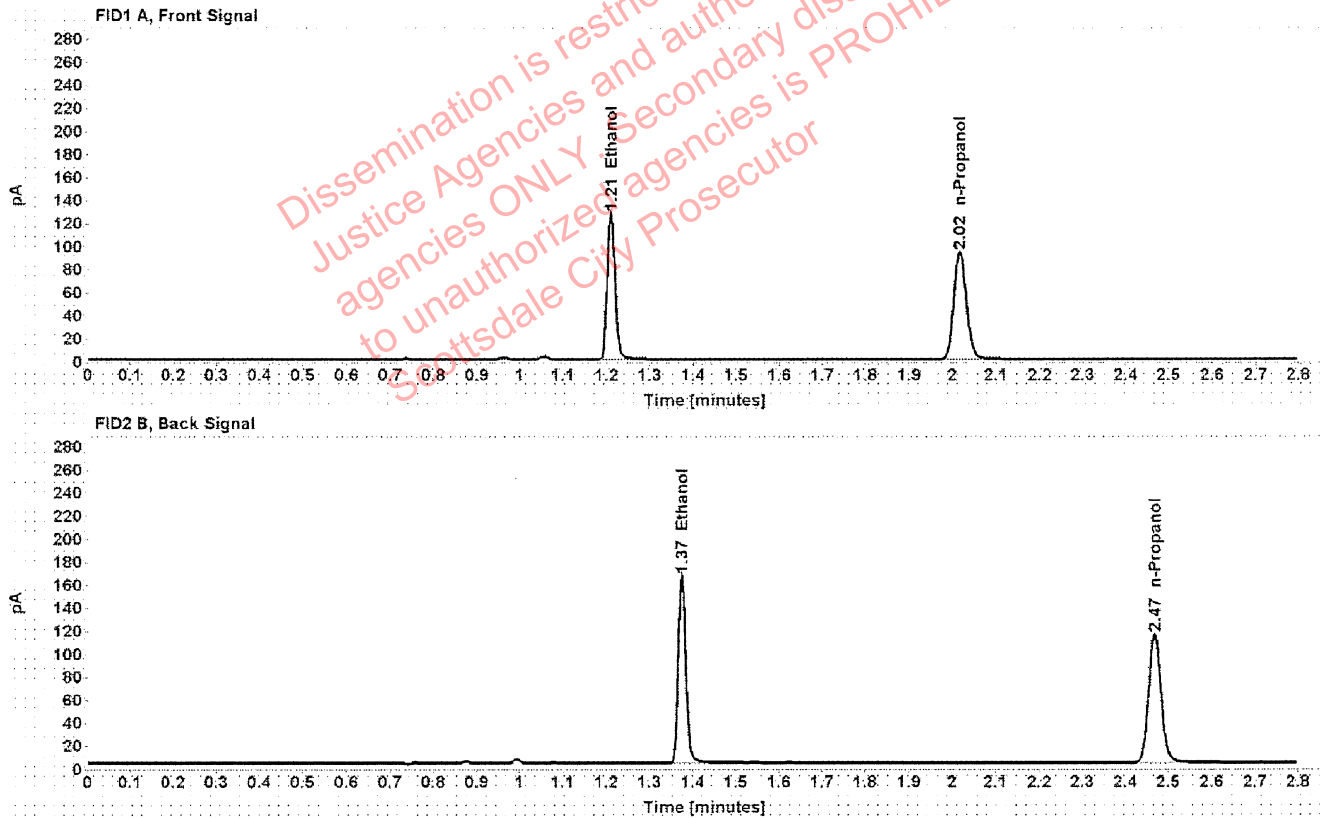


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2482	1.210	161.148
n-Propanol	-----	2.017	185.992

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

Compound	Time (min)	Peak Area
Ethanol	1.375	201.376
n-Propanol	2.468	228.445

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350748	Vial:	35
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:31:57 PM
Data file:	C:\Chem32\11\Data\15Dec20\35.D	Analyst:	Abbott

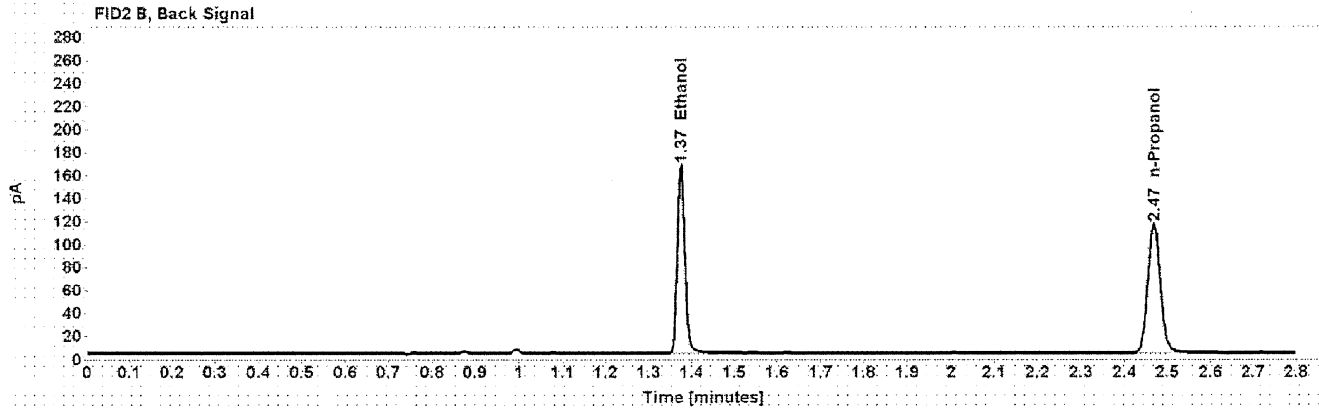
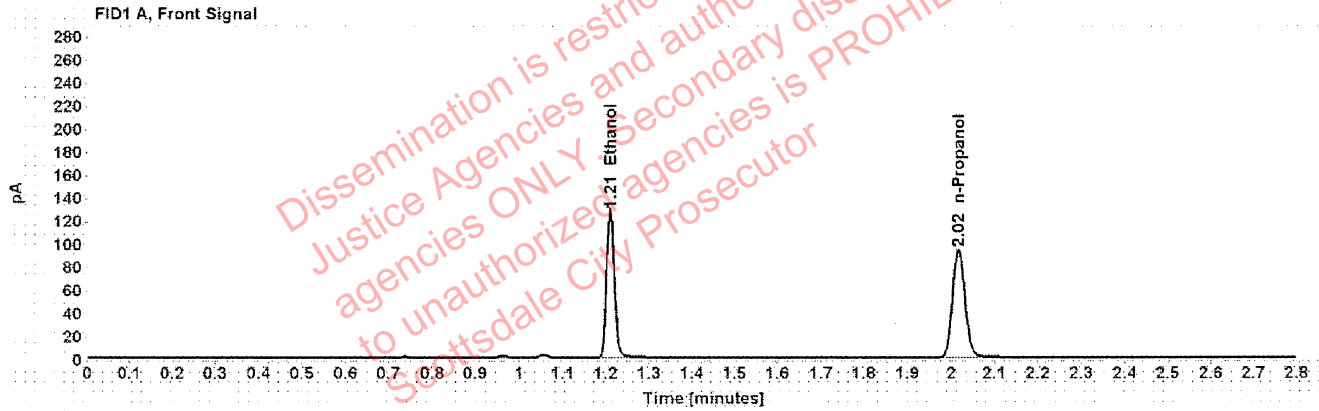


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2489	1.210	162.039
n-Propanol	-----	2.017	186.529

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

Compound	Time (min)	Peak Area
Ethanol	1.375	202.612
n-Propanol	2.468	229.228



### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350273	Vial:	36
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:35:57 PM
Data file:	C:\Chem32\1\Data\15Dec20\36.D	Analyst:	Abbott

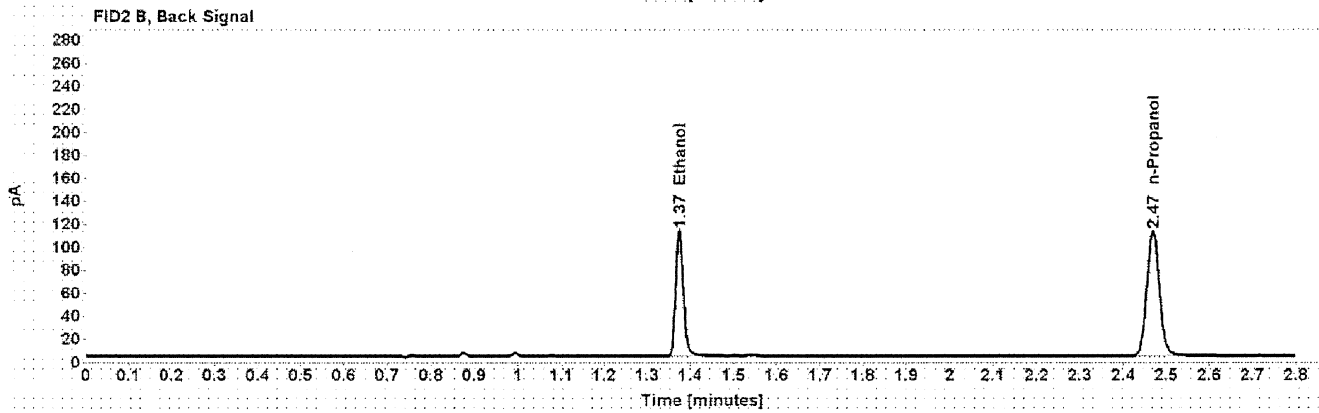
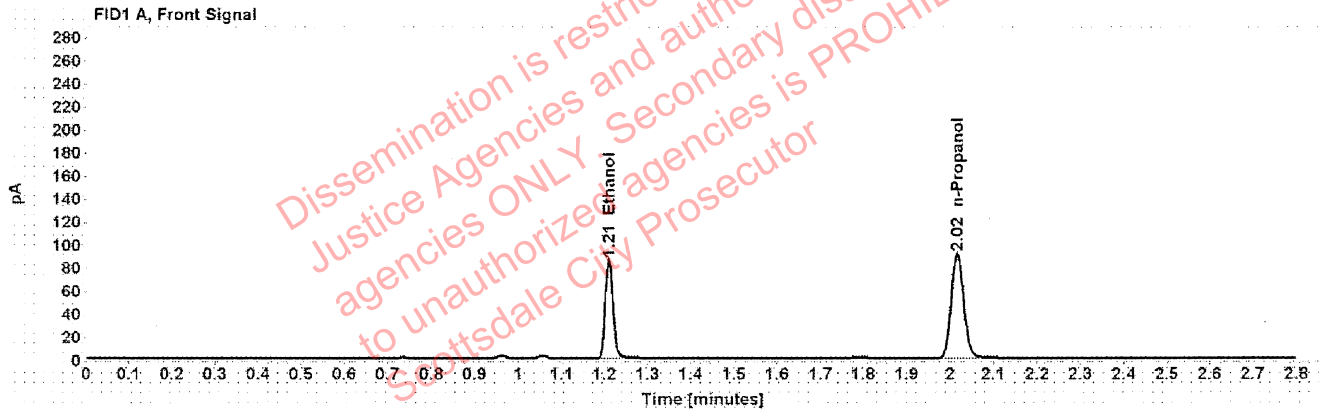


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1729	1.210	108.962
n-Propanol	-----	2.017	181.025

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

Compound	Time (min)	Peak Area
Ethanol	1.375	135.488
n-Propanol	2.468	221.902

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350273	Vial:	37
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:40:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\37.D	Analyst:	Abbott

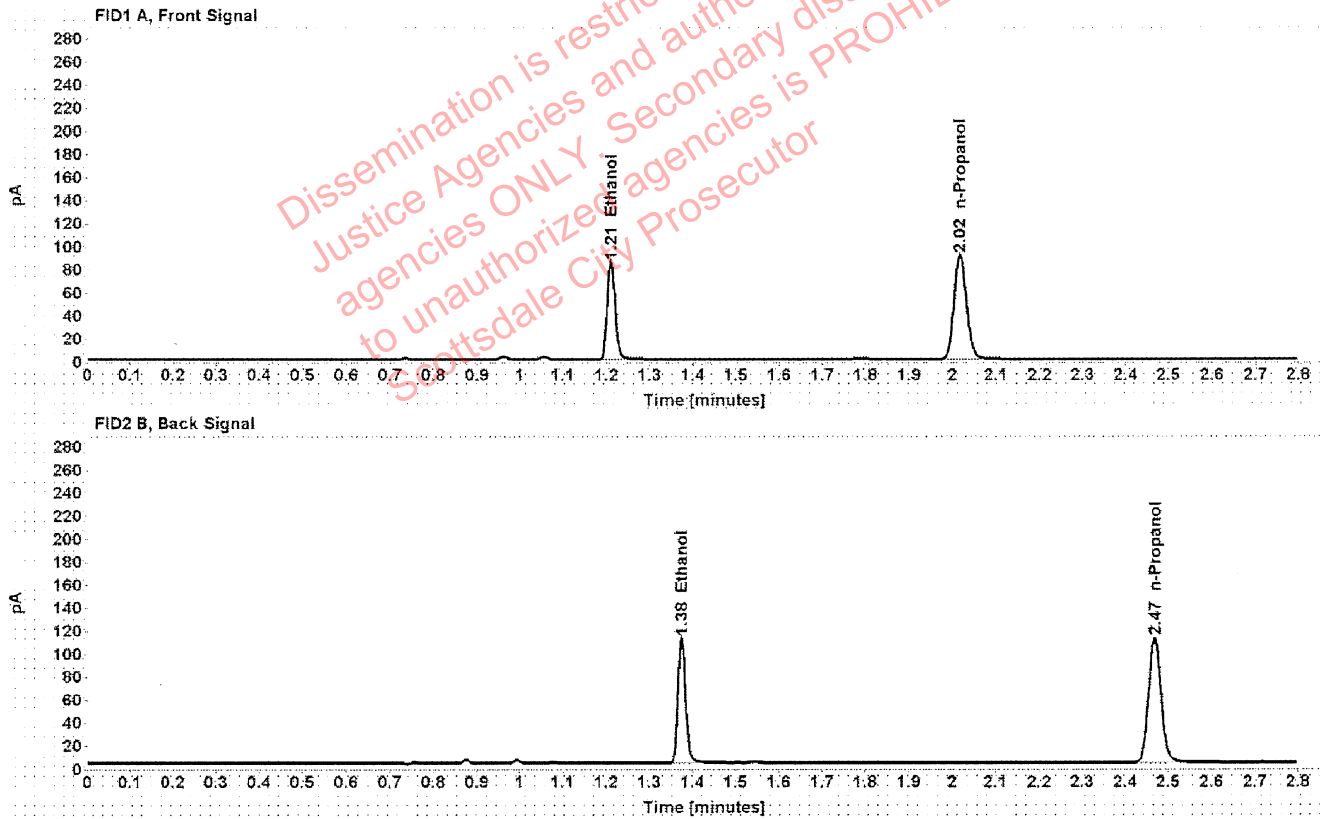


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1726	1.210	108.672
n-Propanol	-----	2.017	180.875

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

Compound	Time (min)	Peak Area
Ethanol	1.375	135.049
n-Propanol	2.468	221.699

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350309	Vial:	38
Description:		LIMS ID:	
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:44:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\38.D	Analyst:	Abbott

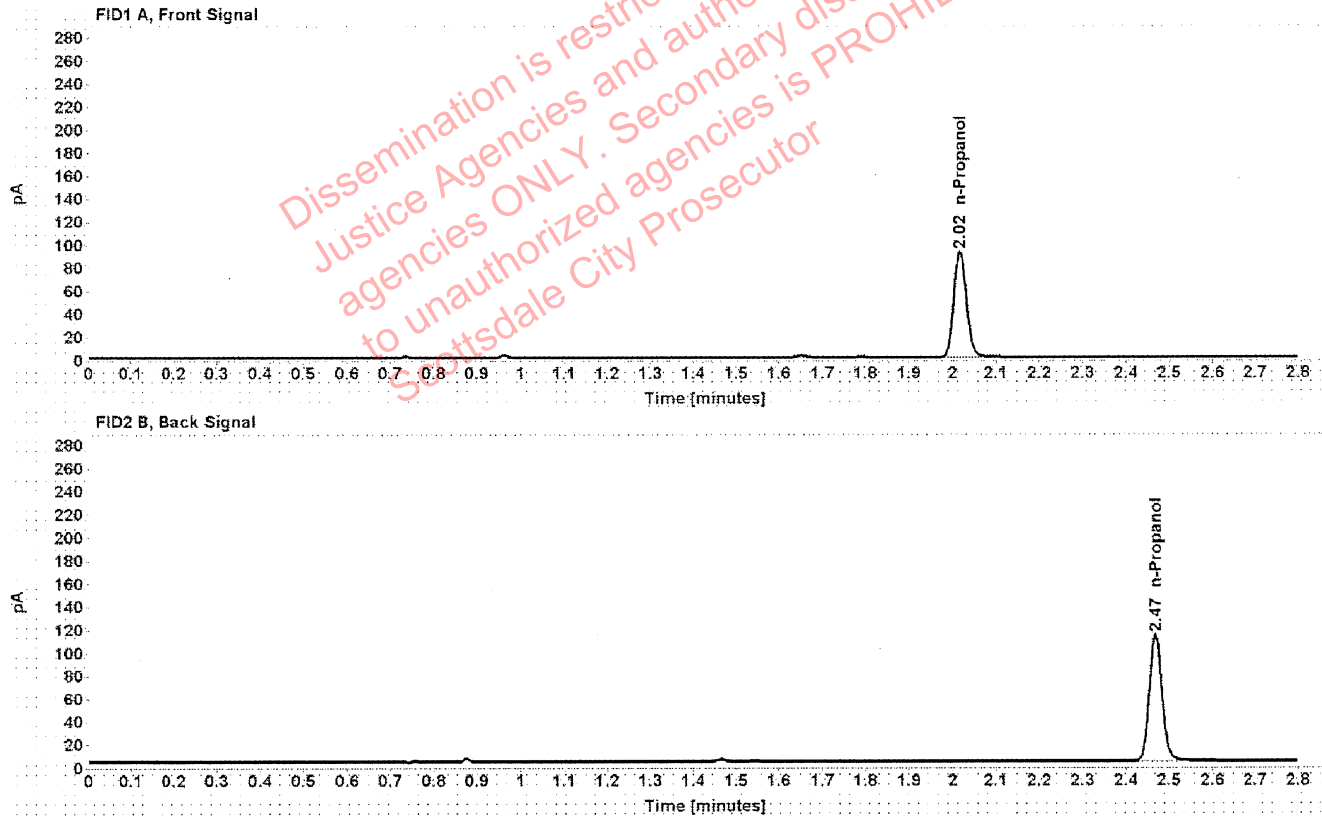


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	184.133

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

Compound	Time (min)	Peak Area
n-Propanol	2.468	225.985

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350309	Vial:	39
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:48:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\39.D	Analyst:	Abbott

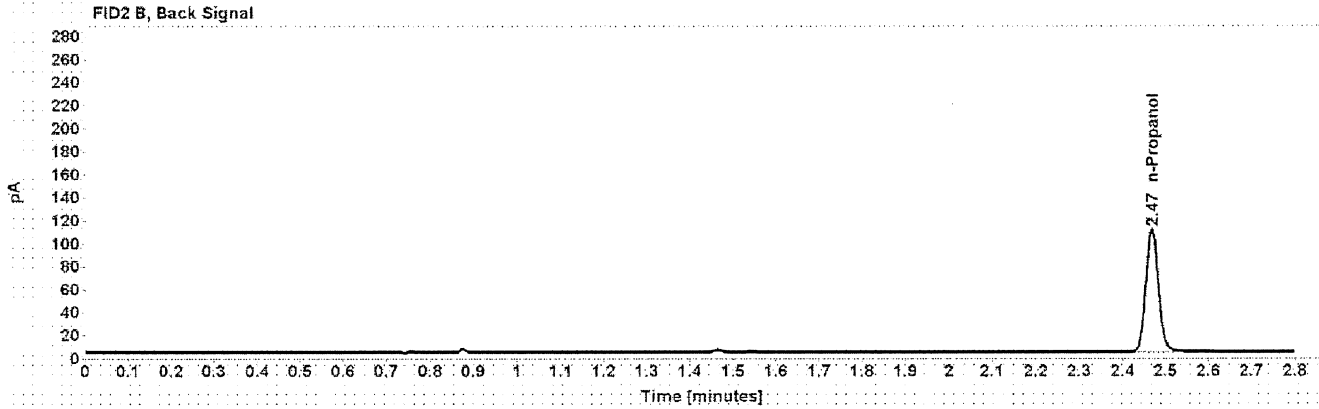
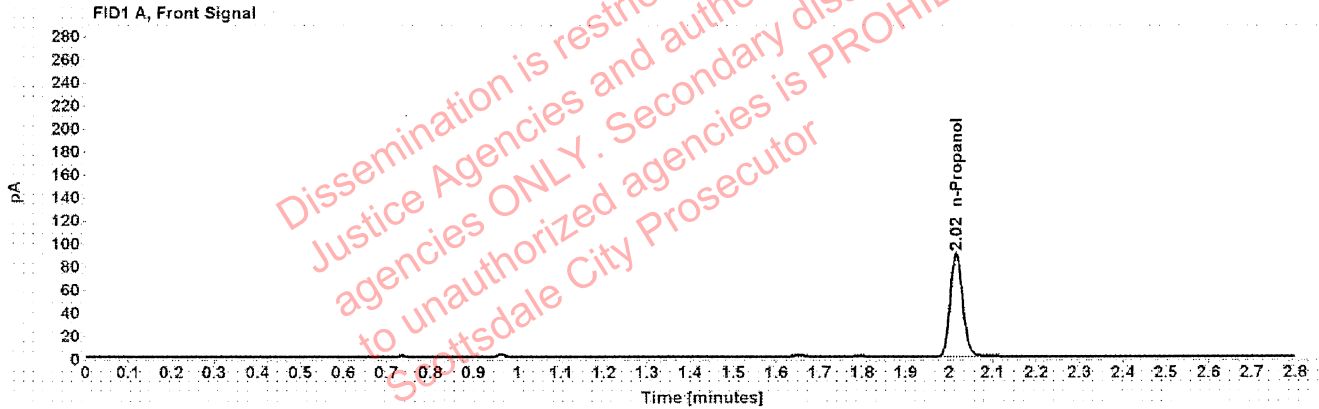


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.017	178.538

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

Compound	Time (min)	Peak Area
n-Propanol	2.468	219.160

## Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350861	Vial:	40
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:52:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\40.D	Analyst:	Abbott

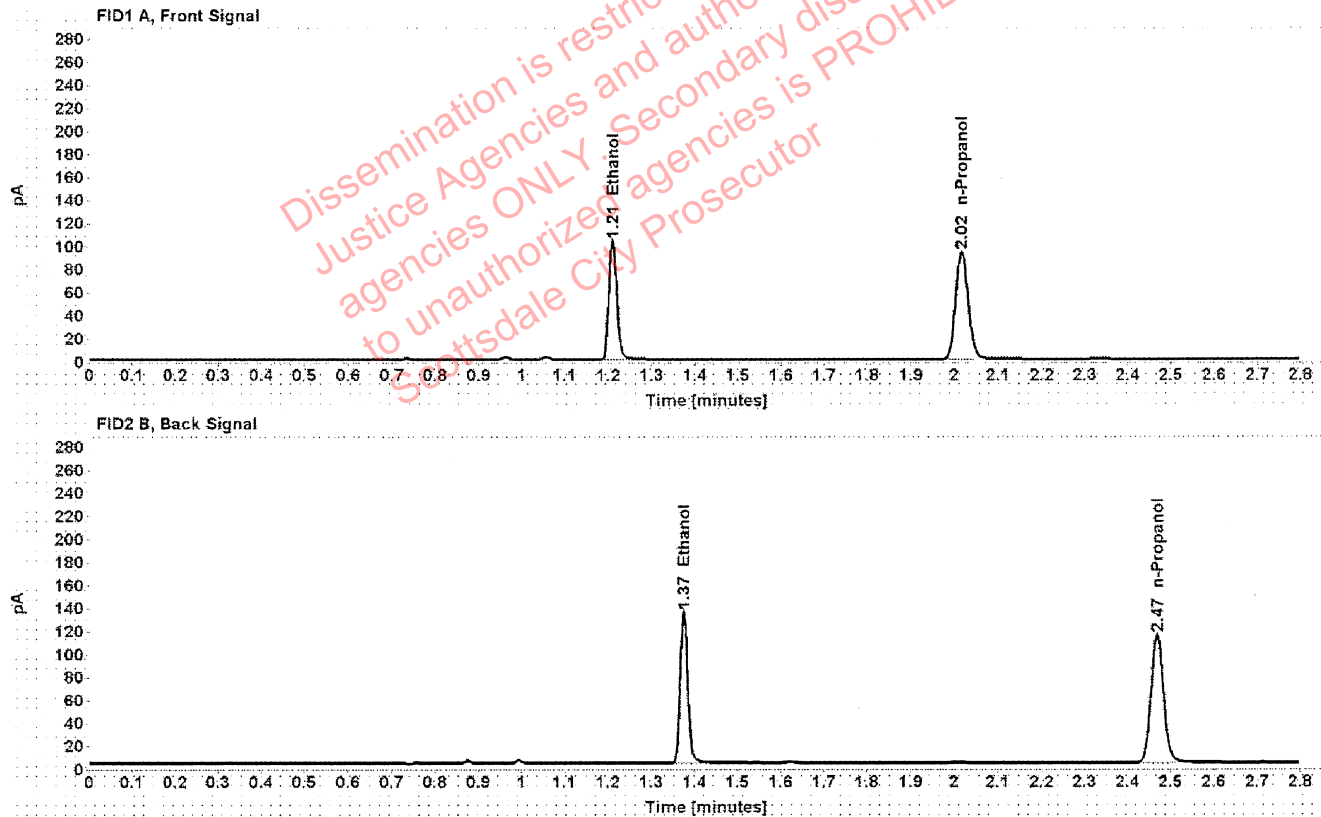


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2027	1.210	131.199
n-Propanol	-----	2.017	185.689

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

Compound	Time (min)	Peak Area
Ethanol	1.375	164.930
n-Propanol	2.468	228.627

### Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1350861	Vial:	41
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	15Dec20
Instrument:	US14173023 CN14160045	Injection date:	12/15/2020 6:56:12 PM
Data file:	C:\Chem32\1\Data\15Dec20\41.D	Analyst:	Abbott

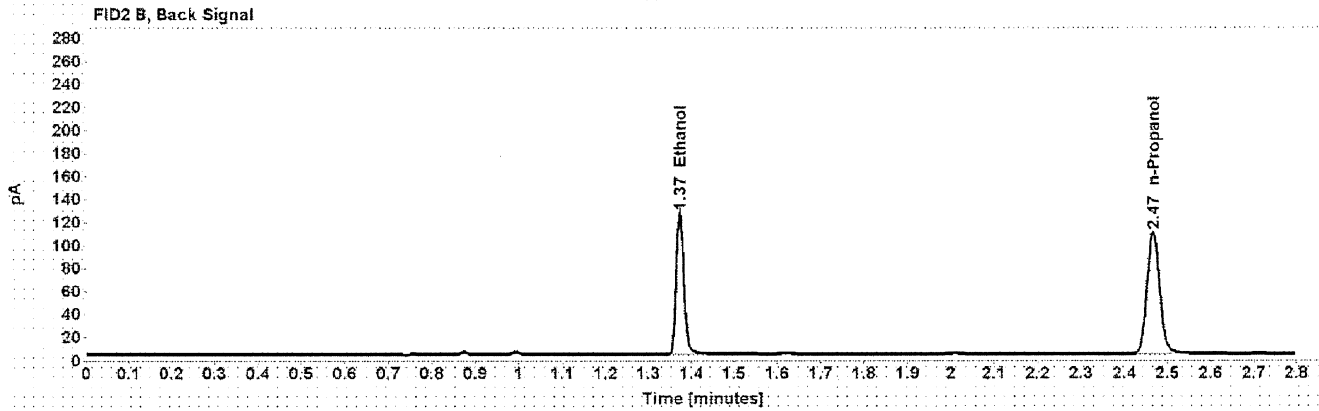
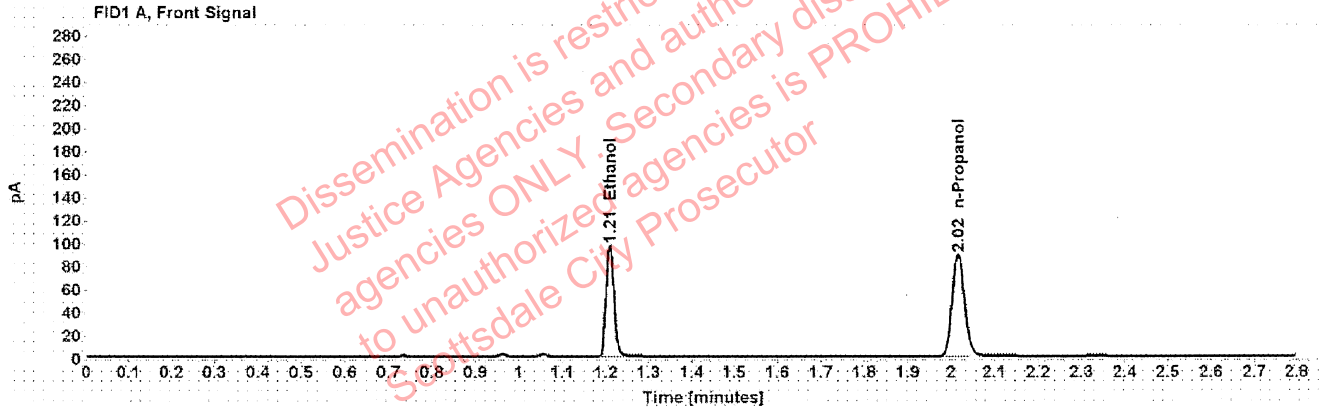


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1999	1.209	122.932
n-Propanol	-----	2.016	176.469

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

Compound	Time (min)	Peak Area
Ethanol	1.373	154.617
n-Propanol	2.467	217.334