

SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 12/03/2019 SEQUENCE NAME 03Dec19

EQUIPMENT

Pipettor Hamilton ML600EH7497 Hamilton ML600GJ10749
 Gas Chromatograph Agilent US14173023

INSTRUMENT CALIBRATION

Vial 1 0.02 calibrator Lot FN03241604 Coefficient of determination (r²)
 Vial 2 0.10 calibrator Lot FN02271802 0.99998
 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 080519
6	Volatiles mixture	6 compounds	6 compounds	SPD lab 070819
7	Aqueous control	0.400 g/dL	0.401 g/dL	Lipomed 08012015-C
8	Aqueous control	0.040 g/dL	0.040 g/dL	Lipomed 09022015-A
9	Blood control	0.198 g/dL	0.201 g/dL	ACQ 407041529/13
20	Aqueous control	0.080 g/dL	0.080 g/dL	Lipomed 03102016-A/1
31	Aqueous control	0.150 g/dL	0.151 g/dL	Lipomed 09022015-C
36	Aqueous control	0.400 g/dL	0.405 g/dL	Lipomed 08012015-C
37	Aqueous control	0.040 g/dL	0.040 g/dL	Lipomed 09022015-A
38	Blood control	0.198 g/dL	0.199 g/dL	ACQ 407041529/13
39	Blank	Not detected	Not detected	SPD lab 040919WB

SUBJECT SAMPLES

Subjects in the sequence 12 Subjects requiring reanalysis 0

ADDITIONAL NOTES: All testing proceeded as expected.

Run valid Run invalid Erika Camonica Analyst
 Run valid Run invalid KOSECKI Technical Reviewer

Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

ee

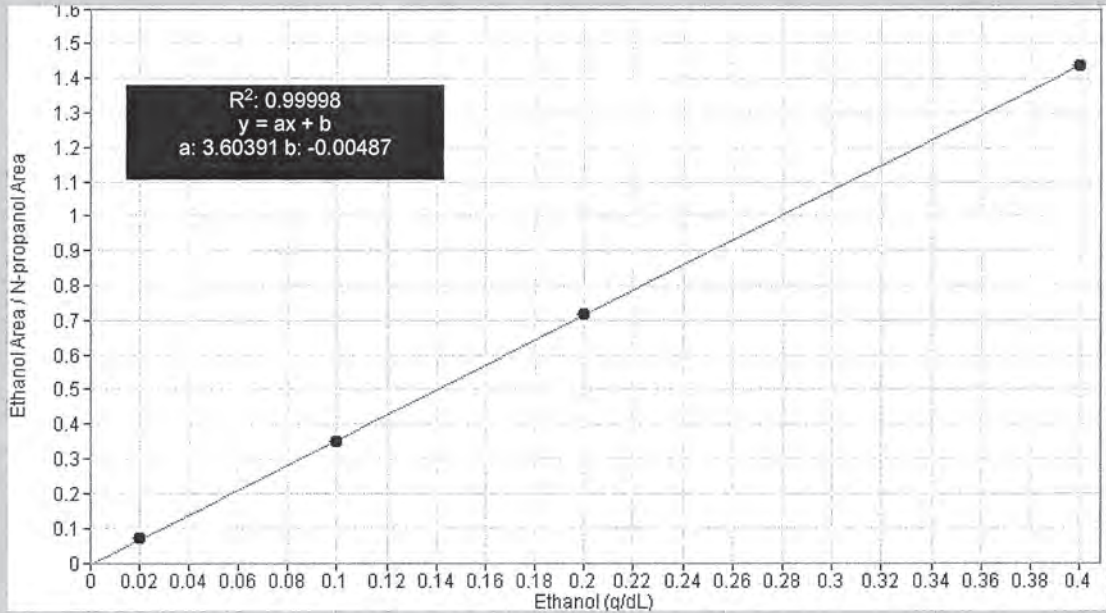
SEQUENCE NAME: 03Dec19

ANALYST: Canonico

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 080519	5	negative	negative	-	-
0.400 08012015-C	7	0.401	0.400	0.25	0.001
0.040 09022015-A	8	0.040	0.040	0.00	0.000
0.198 407041529/13	9	0.201	0.198	1.52	0.003
0.080 03102016-A/1	20	0.080	0.080	0.00	0.000
0.150 09022015-C	31	0.151	0.150	0.67	0.001
0.40 08012015-C	36	0.405	0.400	1.25	0.005
0.04 09022015-A	37	0.040	0.040	0.00	0.000
0.198 407041529/13	38	0.199	0.198	0.51	0.001
blank 040919WB	39	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	11.979	173.293	0.069
0.100	60.017	170.390	0.352
0.200	122.424	170.699	0.717
0.400	247.108	171.988	1.437

Calibration Line



Scottsdale Police Department Crime Lab Volatiles Analysis EQ

Sample: FN03241604	Vial: 1
Description: 0.020 calibrator	Sequence: 03Dec19
Method: ethanol quant.M	Injection date: 12/3/2019 2:05:26 PM
Instrument: US14173023 CN14160045	Analyst: Canonico
Data file: C:\Chem32\1\Data\03Dec19\1.D	

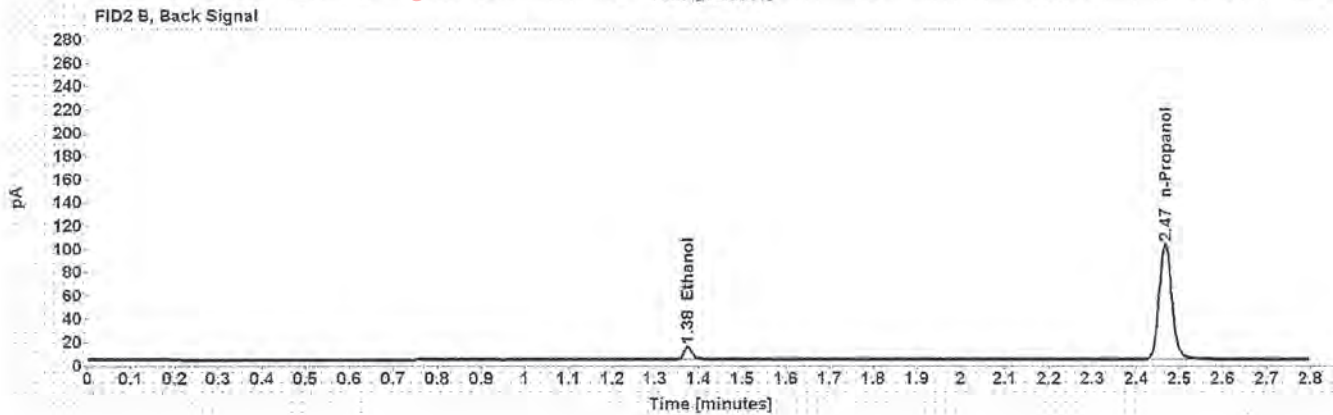


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.211	11.979
n-Propanol	2.014	173.293

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

Compound	Time (min)	Peak Area
Ethanol	1.375	14.504
n-Propanol	2.467	205.588

Scottsdale Police Department Crime Lab Volatiles Analysis EQ

Sample: FN02271802	Vial: 2
Description: 0.100 calibrator	Sequence: 03Dec19
Method: ethanol quant.M	Injection date: 12/3/2019 2:09:28 PM
Instrument: US14173023 CN14160045	Analyst: Canonico
Data file: C:\Chem32\1\Data\03Dec19\2.D	

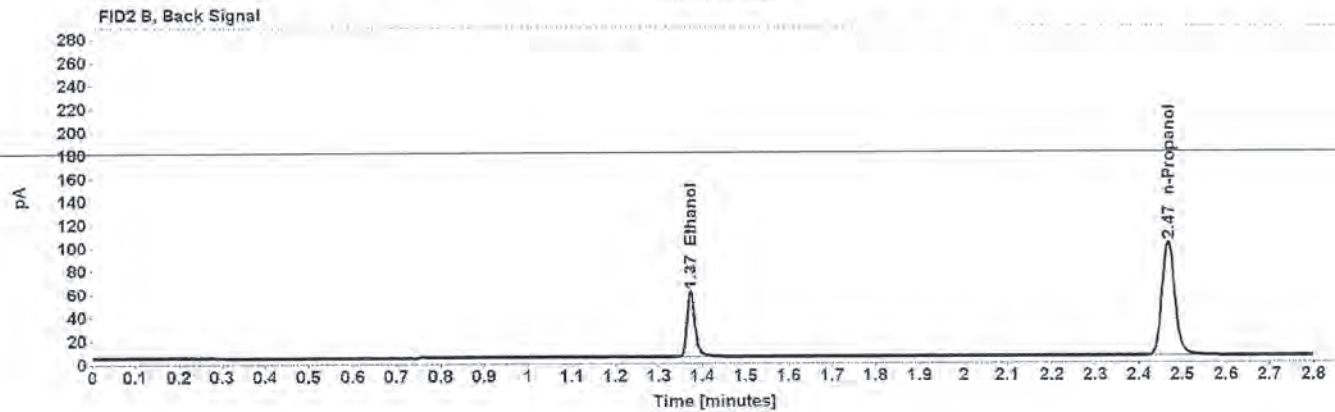
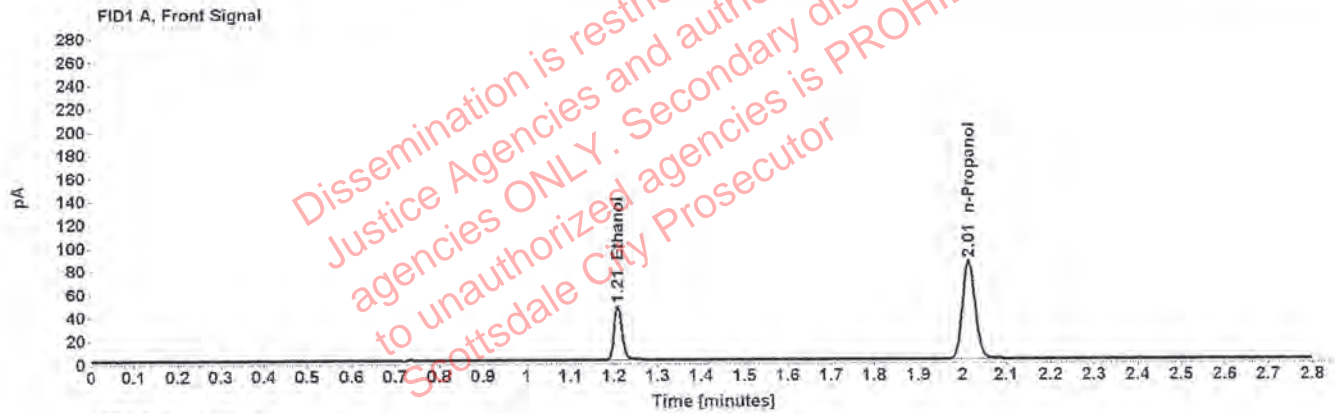


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	60.017
n-Propanol	2.014	170.390

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

Compound	Time (min)	Peak Area
Ethanol	1.373	73.294
n-Propanol	2.467	203.352

Scottsdale Police Department Crime Lab Volatiles Analysis

EE

Sample:	FN06231704	Vial:	3
Description:	0.200 calibrator	Sequence:	03Dec19
Method:	ethanol quant.M	Injection date:	12/3/2019 2:13:28 PM
Instrument:	US14173023 CN14160045	Analyst:	Canonico
Data file:	C:\Chem32\1\Data\03Dec19\3.D		

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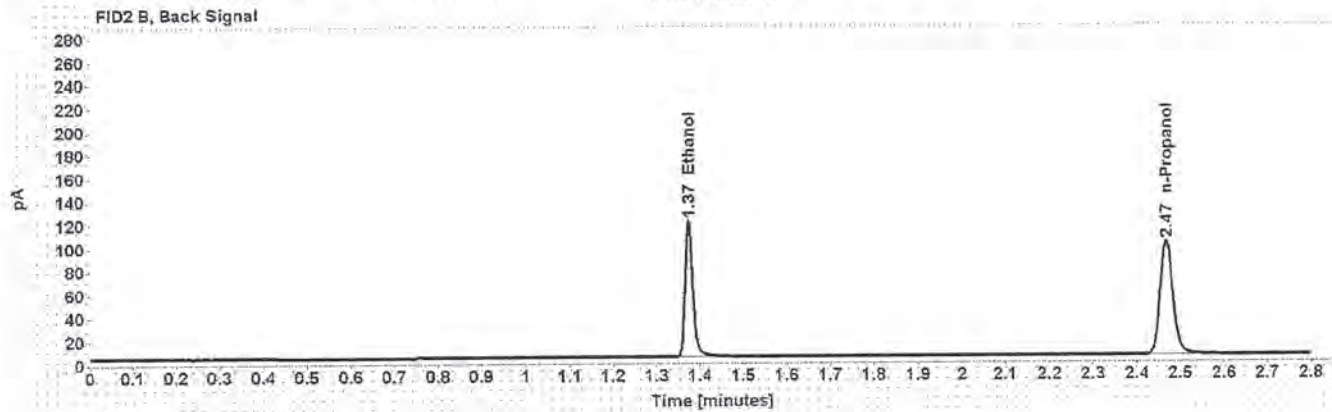
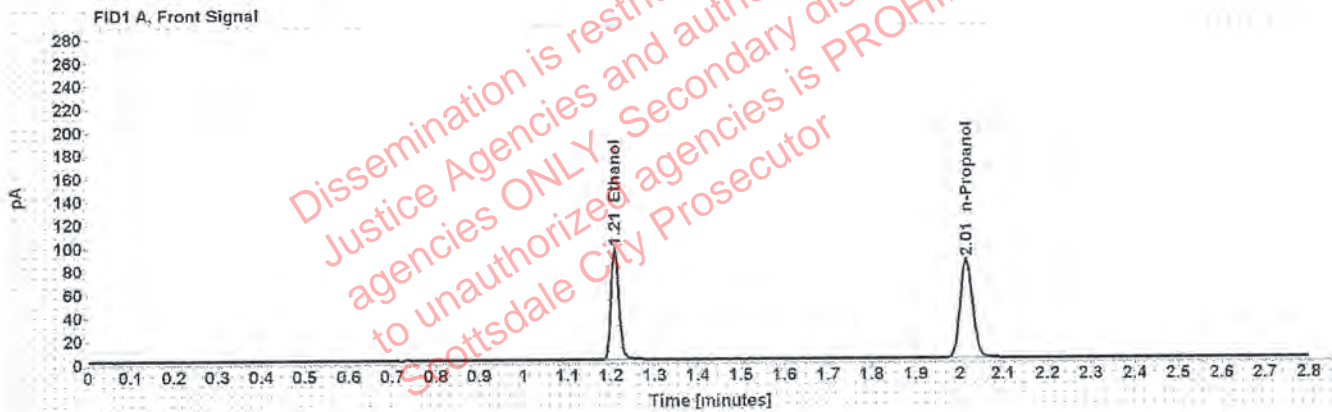


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.209	122.424
n-Propanol	2.015	170.699

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

Compound	Time (min)	Peak Area
Ethanol	1.374	150.188
n-Propanol	2.468	204.205

Scottsdale Police Department Crime Lab Volatiles Analysis

EE

Sample:	FN05131606	Vial:	4
Description:	0.400 callibrator	Sequence:	03Dec19
Method:	ethanol quant.M	Injection date:	12/3/2019 2:17:27 PM
Instrument:	US14173023 CN14160045	Analyst:	Canonico
Data file:	C:\Chem32\1\Data\03Dec19\4.D		

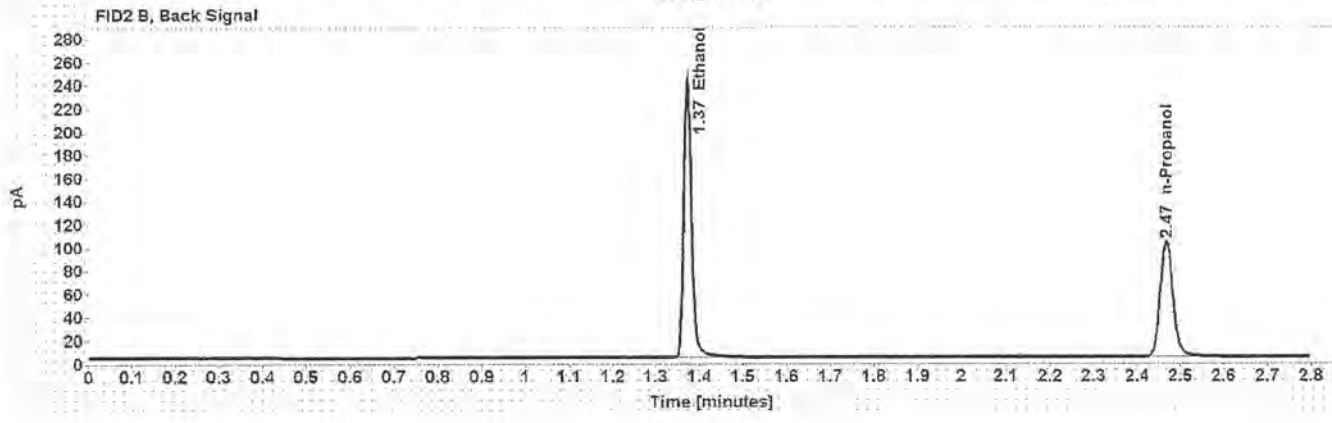
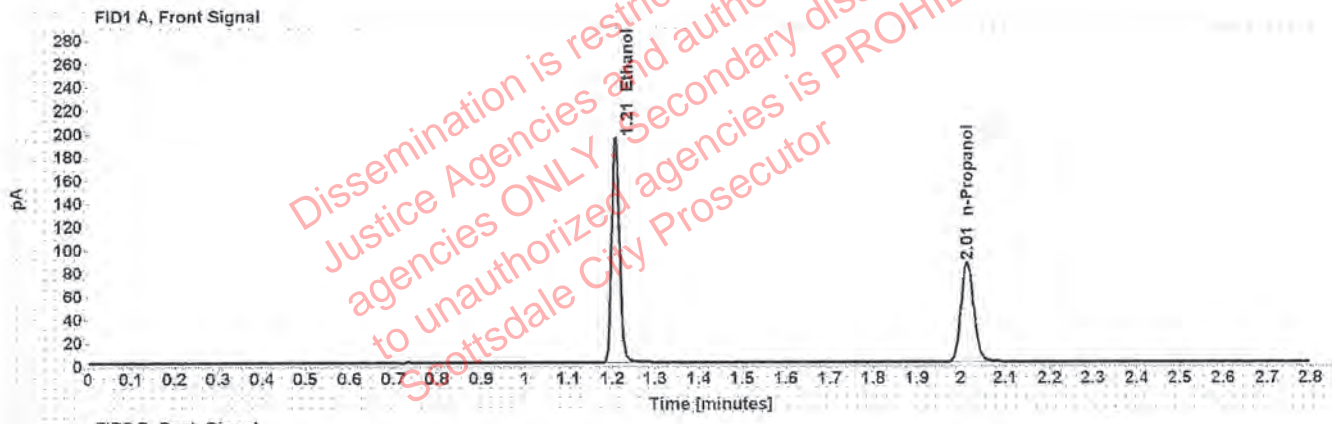


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.208	247.108
n-Propanol	2.014	171.988

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

Compound	Time (min)	Peak Area
Ethanol	1.373	304.598
n-Propanol	2.467	206.199

Scottsdale Police Department Crime Lab Volatiles Analysis

EQ

Sample:	080519	Vial:	5
Description:	Negative	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 2:21:26 PM
Data file:	C:\Chem32\11Data\03Dec19\5.D	Analyst:	Canonico

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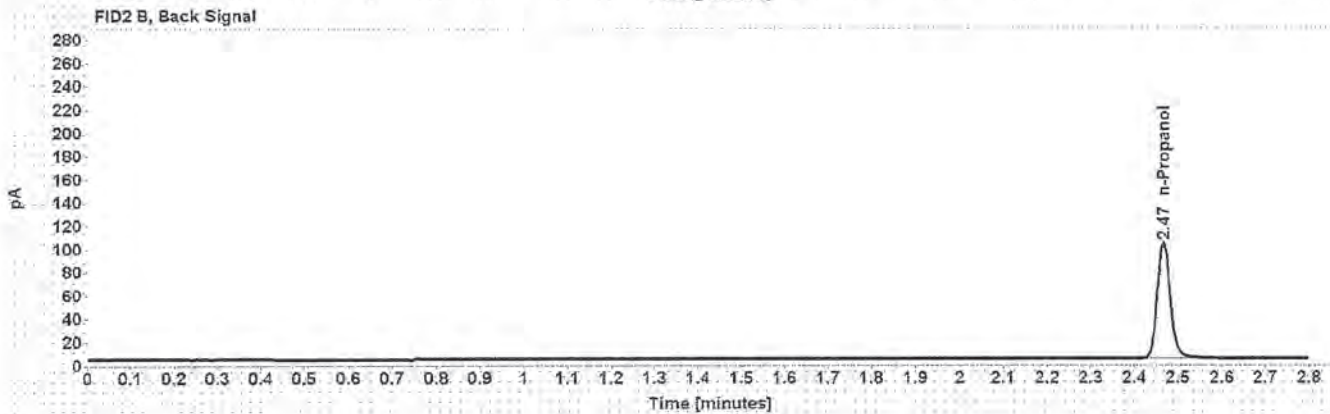
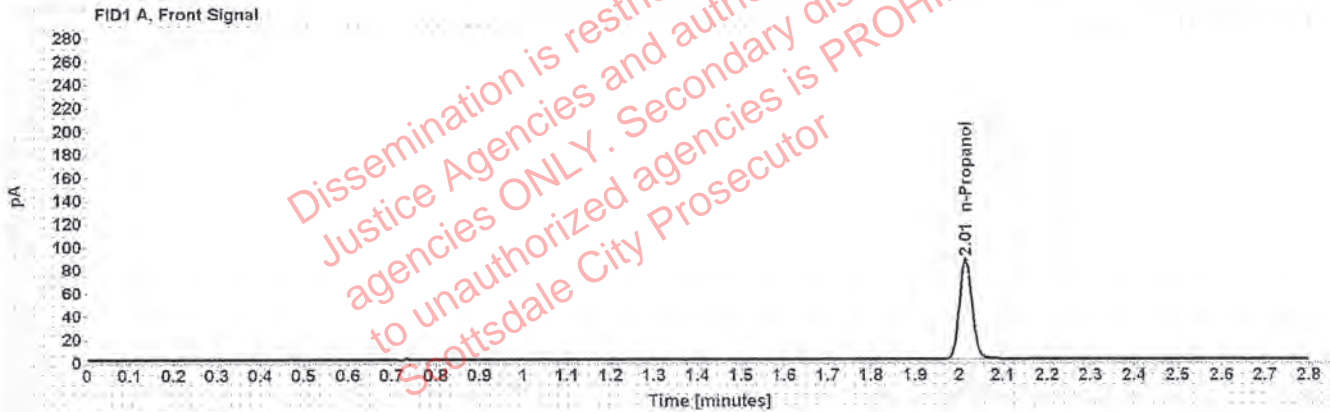


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.014	173.504

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

Compound	Time (min)	Peak Area
n-Propanol	2.467	207.187

Scottsdale Police Department Crime Lab Volatiles Analysis

EL

Sample:	070819	Vial:	6
Description:	Volatiles mix	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 2:25:26 PM
Data file:	C:\Chem32\1\Data\03Dec19\6.D	Analyst:	Canonico

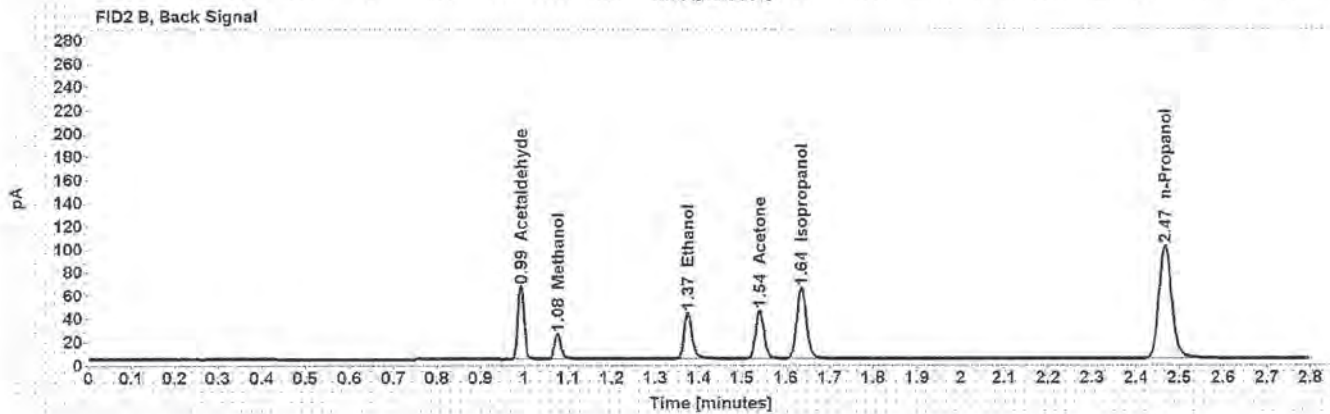
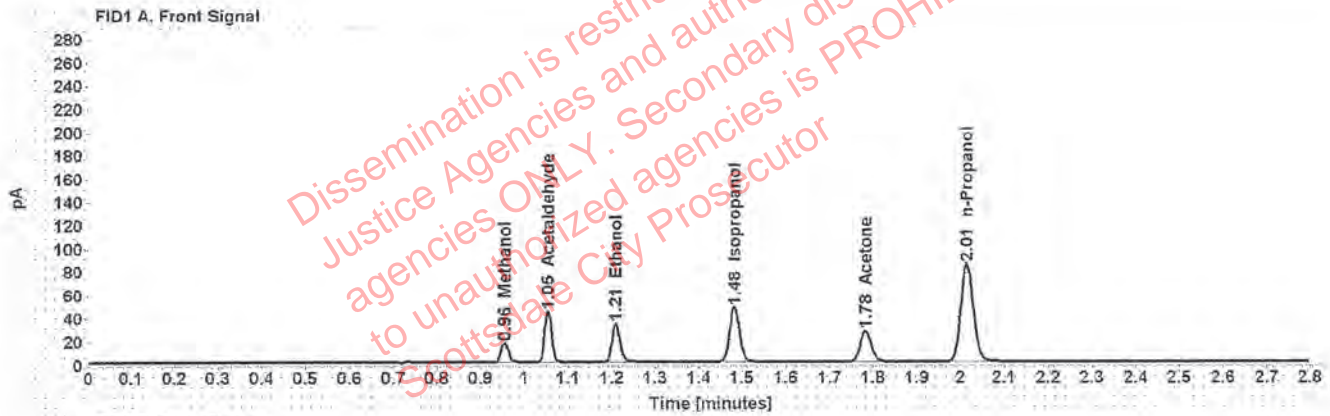


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	-----	0.956	18.798
Acetaldehyde	-----	1.054	48.487
>Ethanol	0.0714	1.209	42.632
Isopropanol	-----	1.482	75.458
Acetone	-----	1.783	46.188
n-Propanol	-----	2.014	168.966

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.992	62.322
Methanol	1.075	23.794
Ethanol	1.374	51.862
Acetone	1.540	55.803
Isopropanol	1.636	94.393
n-Propanol	2.467	202.742

Scottsdale Police Department Crime Lab Volatiles Analysis

ee

Sample:	08012015-C	Vial:	7
Description:	0.400	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 2:29:42 PM
Data file:	C:\Chem32\1\Data\03Dec19\7.D	Analyst:	Canonico

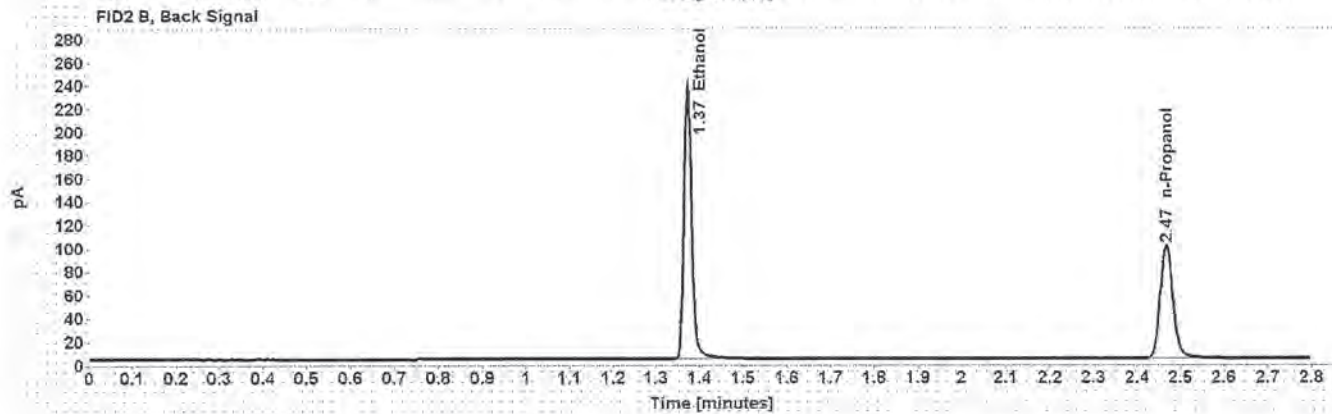
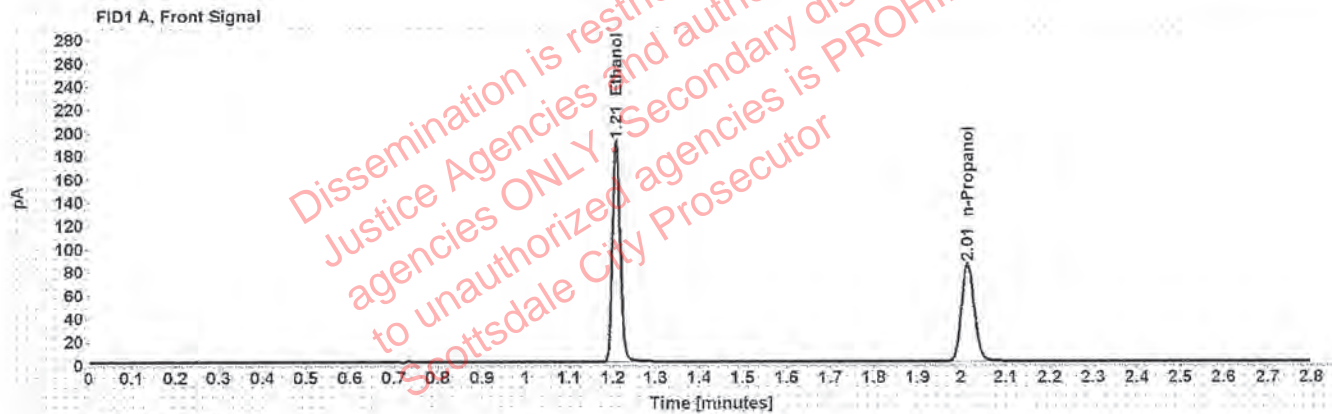


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4015	1.208	242.819
n-Propanol	-----	2.014	168.365

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

Compound	Time (min)	Peak Area
Ethanol	1.373	299.287
n-Propanol	2.467	201.742

Scottsdale Police Department Crime Lab Volatiles Analysis

ee

Sample: 09022015-A	Vial: 8
Description: 0.040	LIMS ID:
Method: ethanol quant.M	Sequence: 03Dec19
Instrument: US14173023 CN14160045	Injection date: 12/3/2019 2:33:41 PM
Data file: C:\Chem32\1\Data\03Dec19\8.D	Analyst: Canonico

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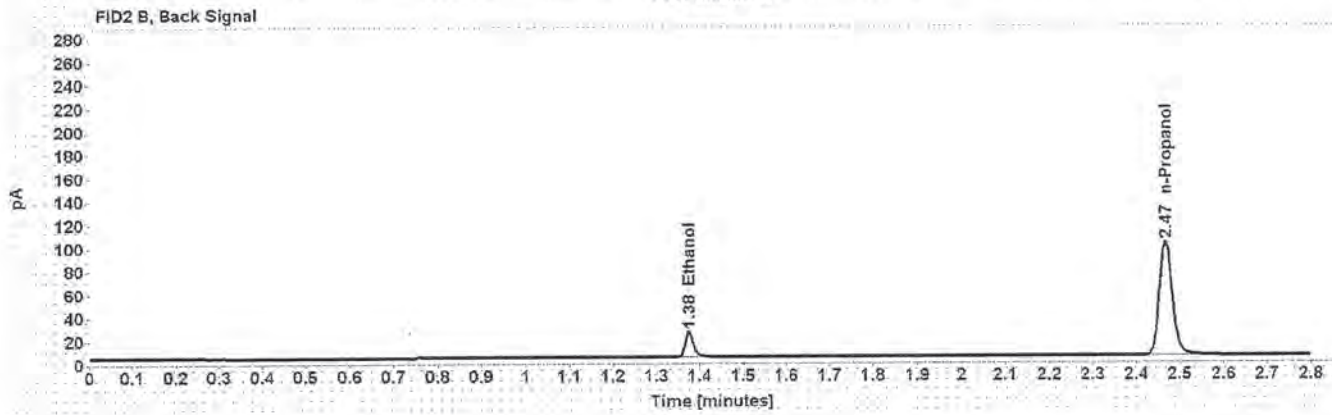
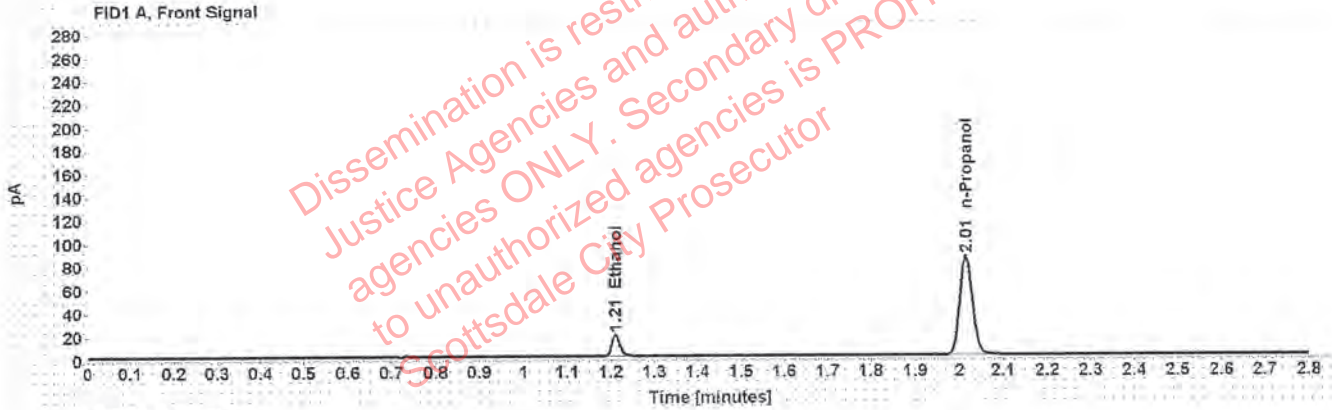


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0400	1.210	23.817
n-Propanol	-----	2.015	170.888

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

Compound	Time (min)	Peak Area
Ethanol	1.375	28.821
n-Propanol	2.468	204.250

Scottsdale Police Department Crime Lab Volatiles Analysis EE

Sample:	407041529/13	Vial:	9
Description:	0.198	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 2:37:41 PM
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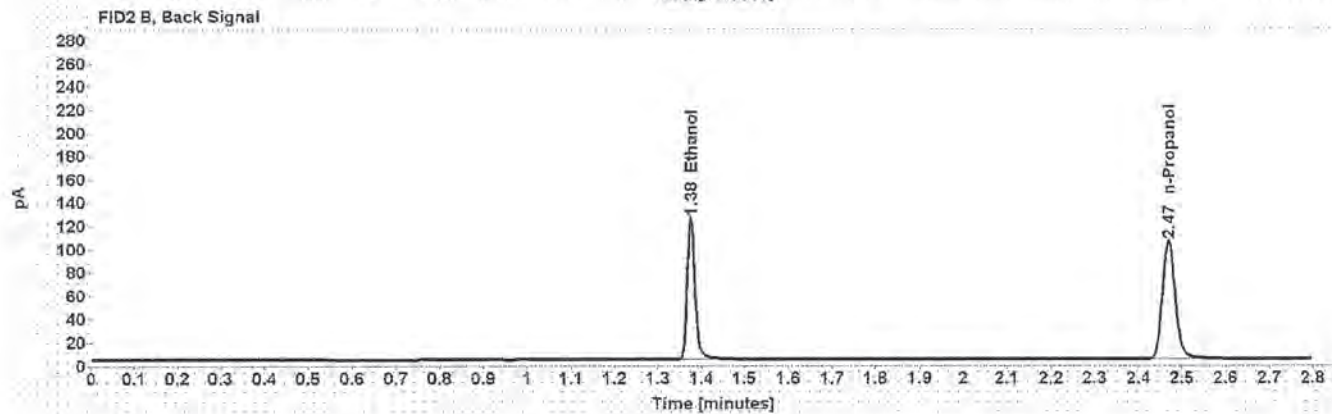
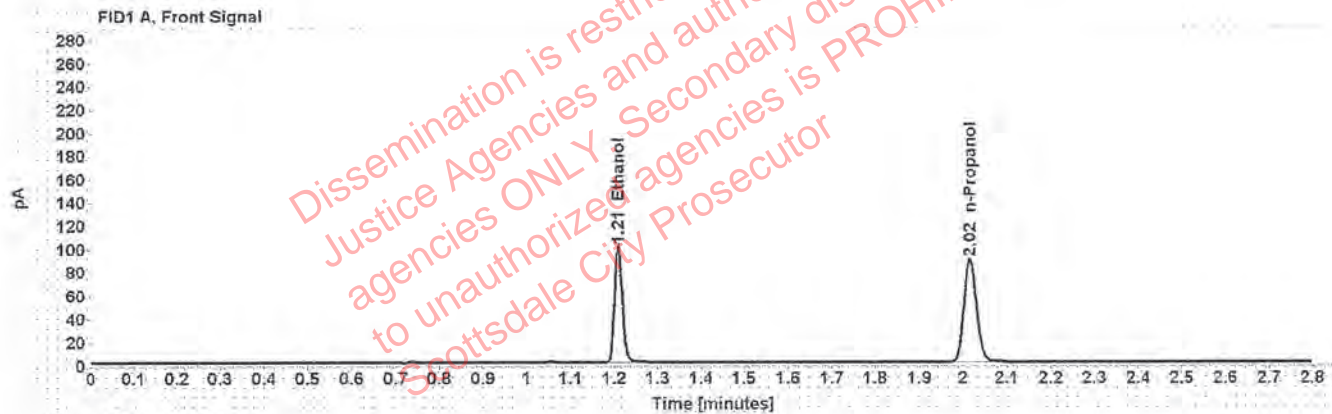


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2014	1.210	127.245
n-Propanol	-----	2.016	176.478

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

Compound	Time (min)	Peak Area
Ethanol	1.376	155.943
n-Propanol	2.469	211.305

Scottsdale Police Department Crime Lab Volatiles Analysis

EE

Sample:	03102016-A/1	Vial:	20
Description:	0.080	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:22:12 PM
Data file:	C:\Chem32\11\Data\03Dec19\20.D	Analyst:	Canonico

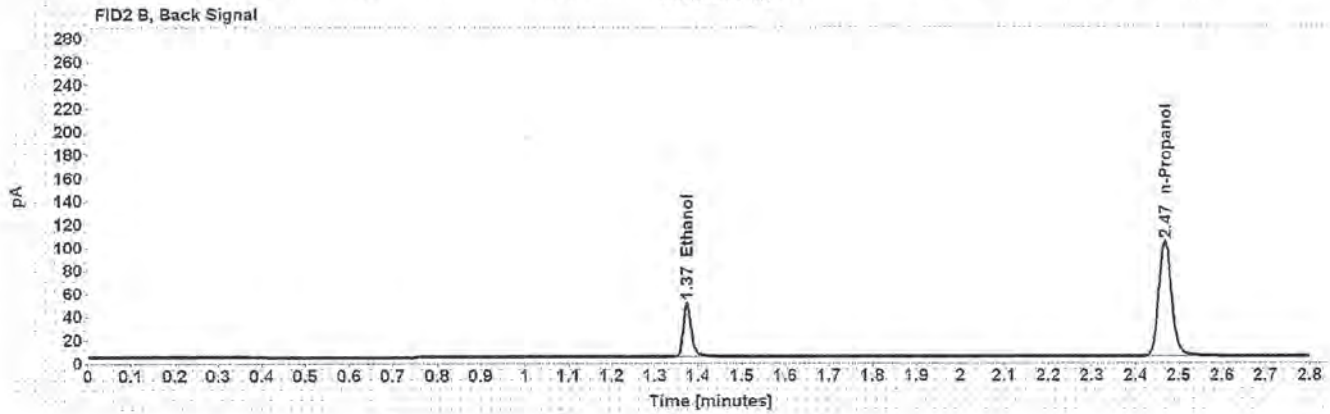
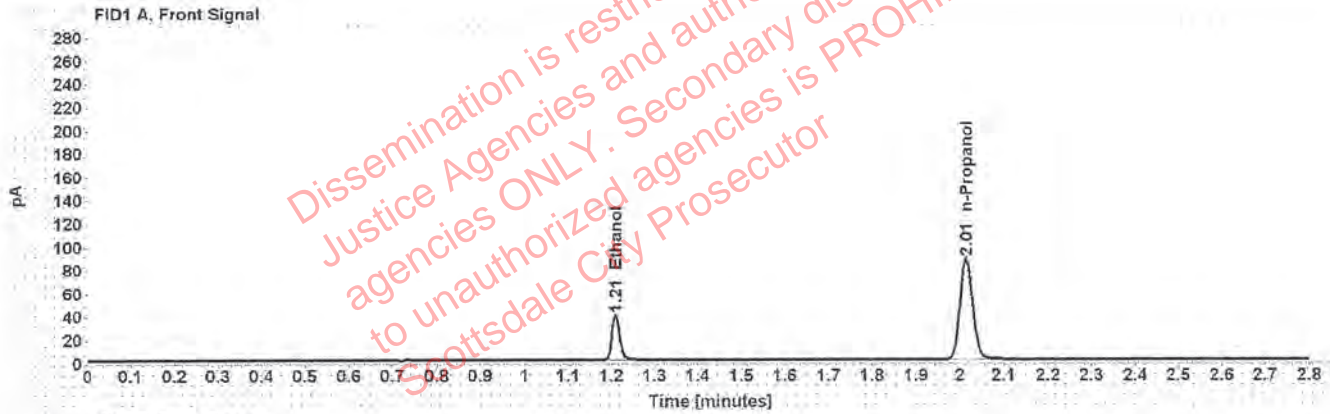


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0806	1.209	49.808
n-Propanol	-----	2.014	174.458

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

Compound	Time (min)	Peak Area
Ethanol	1.374	61.002
n-Propanol	2.468	208.064

Scottsdale Police Department Crime Lab Volatiles Analysis

EE

Sample:	09022015-C	Vial:	31
Description:	0.150	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 4:06:43 PM
Data file:	C:\Chem32\1\Data\03Dec19\31.D	Analyst:	Canonico

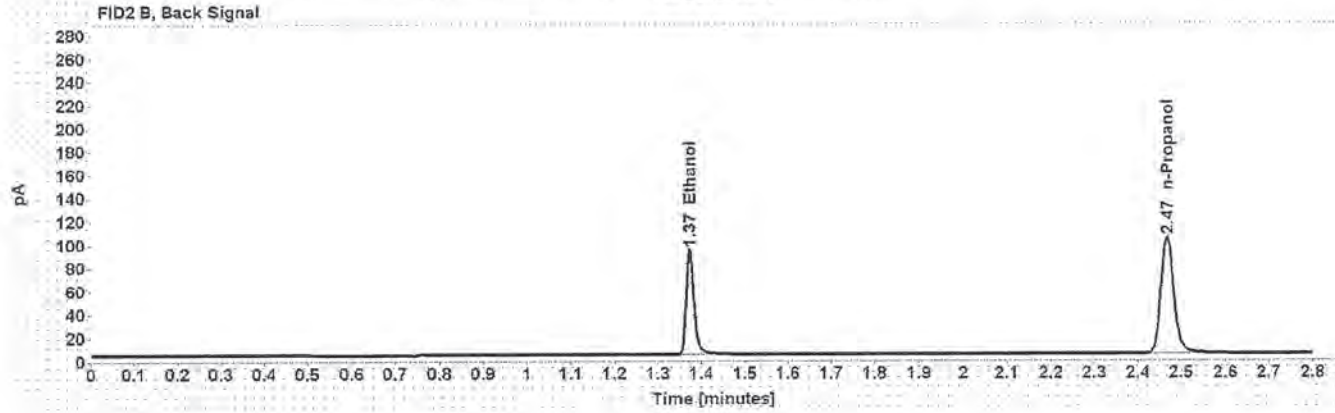
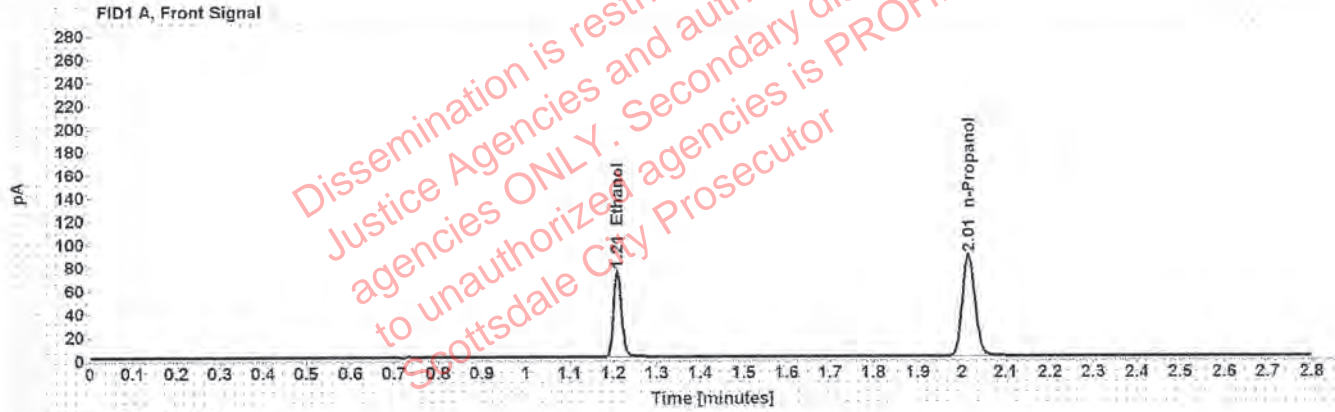


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1517	1.209	95.038
n-Propanol	-----	2.015	175.339

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

Compound	Time (min)	Peak Area
Ethanol	1.374	116.415
n-Propanol	2.468	209.250

Scottsdale Police Department Crime Lab Volatiles Analysis

EL

Sample:	08012015-C	Vial:	36
Description:	0.400	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 4:26:42 PM
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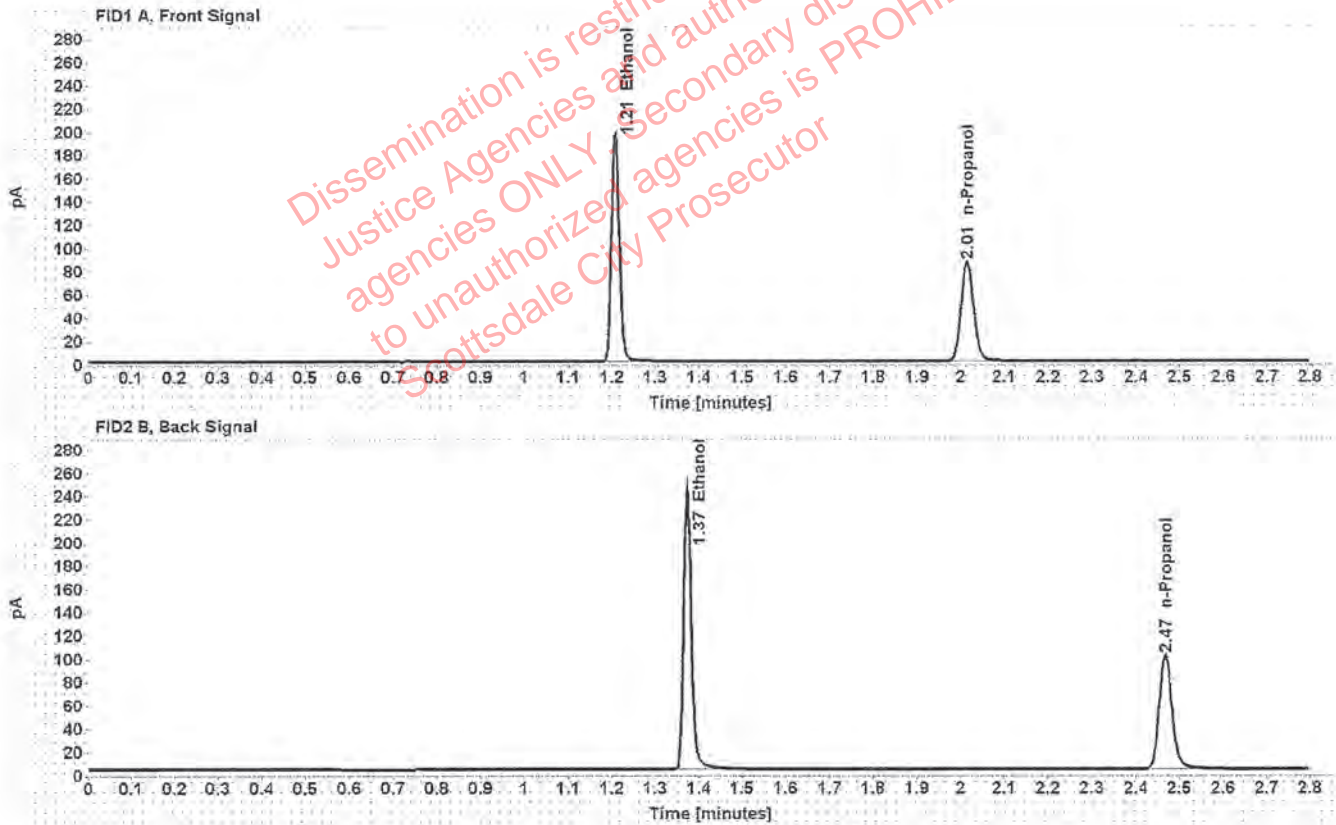


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4052	1.208	249.529
n-Propanol	-----	2.014	171.429

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

Compound	Time (min)	Peak Area
Ethanol	1.373	307.961
n-Propanol	2.468	205.487

Scottsdale Police Department Crime Lab Volatiles Analysis

EE

Sample:	09022015-A	Vial:	37
Description:	0.040	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 4:30:58 PM
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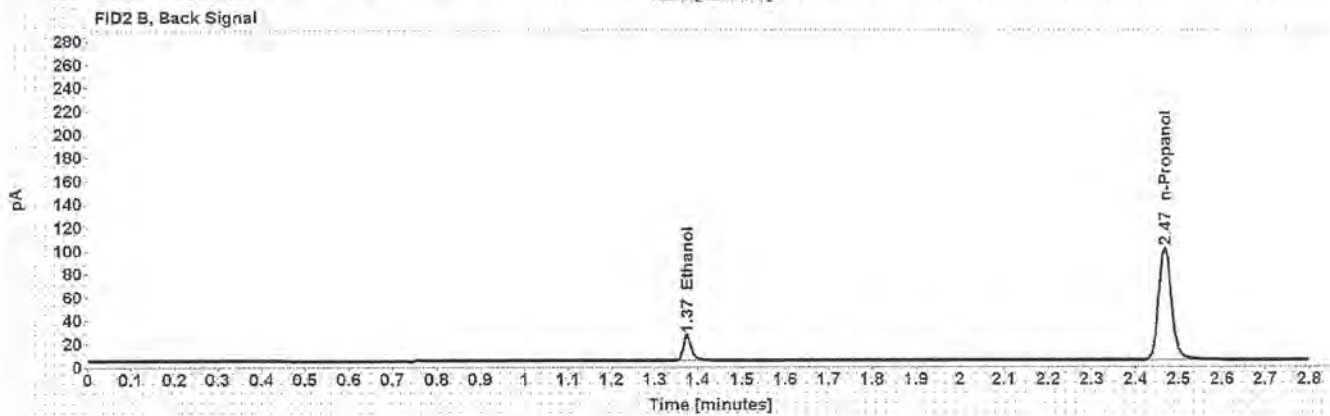


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0401	1.210	23.711
n-Propanol	-----	2.014	169.706

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

Compound	Time (min)	Peak Area
Ethanol	1.375	28.825
n-Propanol	2.468	201.775

Scottsdale Police Department Crime Lab Volatiles Analysis

EE

Sample:	407041529/13	Vial:	38
Description:	0.198	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 4:34:56 PM
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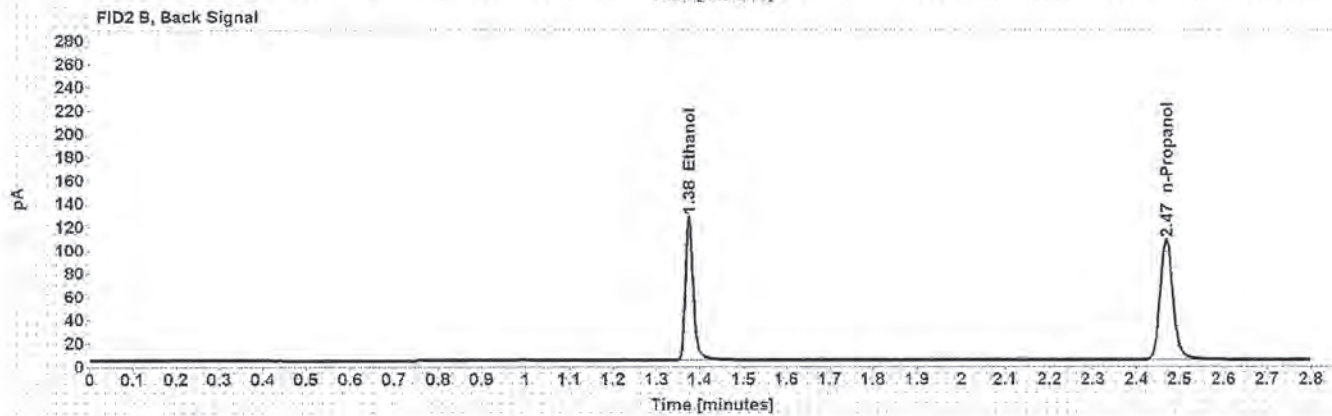
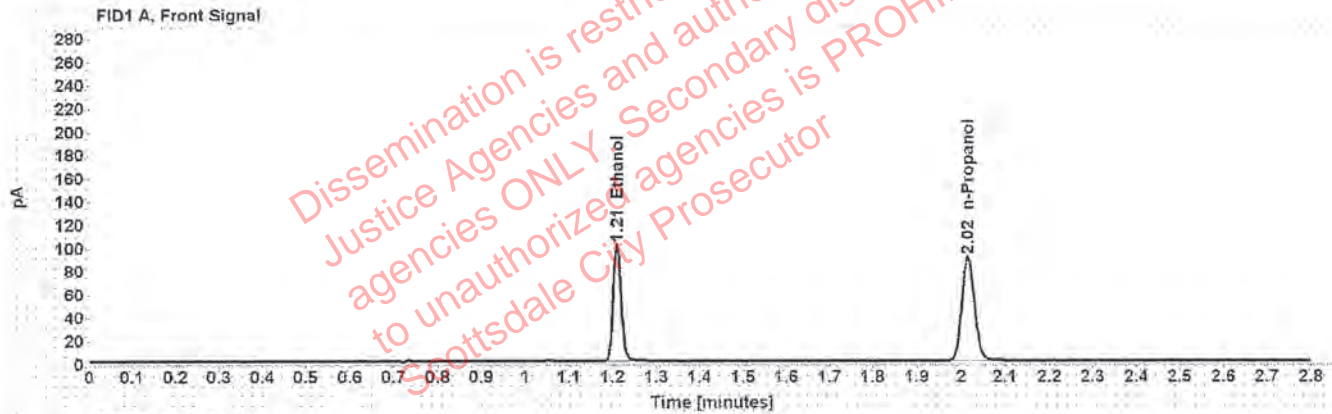


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1998	1.209	129.129
n-Propanol	-----	2.015	180.533

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

Compound	Time (min)	Peak Area
Ethanol	1.375	159.042
n-Propanol	2.469	215.731

Scottsdale Police Department Crime Lab Volatiles Analysis

El

Sample:	040919WB	Vial:	39
Description:	Negative	LIMS ID:	
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 4:38:57 PM
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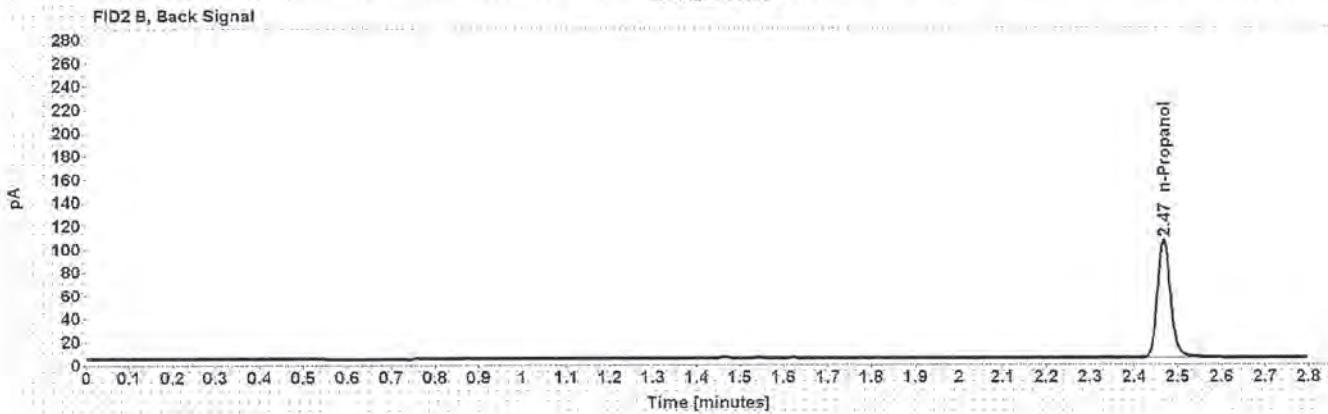
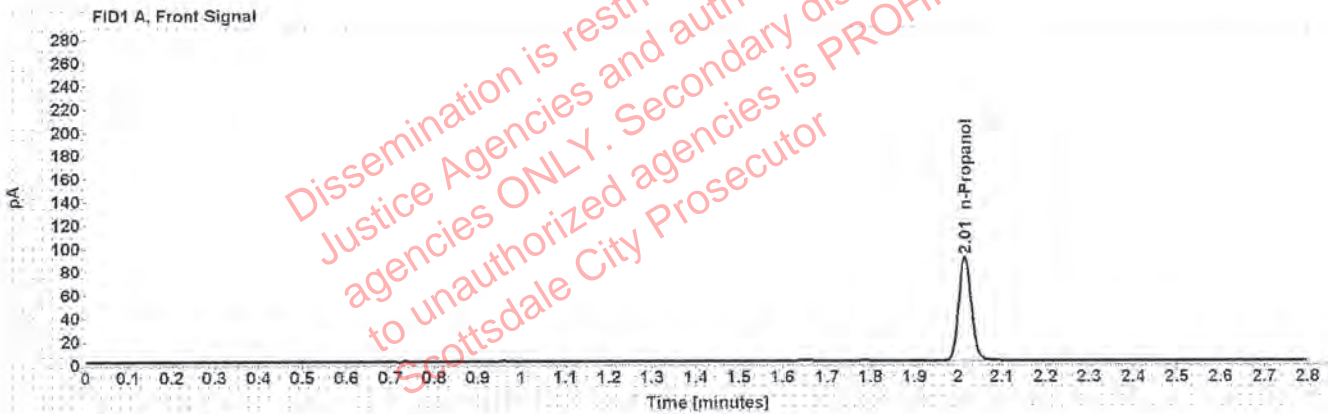


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.015	178.509

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

Compound	Time (min)	Peak Area
n-Propanol	2.468	213.205

Sequence Summary

EQ

Sequence name: 03Dec19 Instrument: US14173023 CN14160045 Analyst: Canonico

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	080519	Negative	Control		ethanol quant.M
6	070819	Volatiles mix	Control		ethanol quant.M
7	08012015-C	0.400	Control		ethanol quant.M
8	09022015-A	0.040	Control		ethanol quant.M
9	407041529/13	0.198	Control		ethanol quant.M
10	1265993		Sample		ethanol quant.M
11	1265993		Sample		ethanol quant.M
12	1280949		Sample		ethanol quant.M
13	1280949		Sample		ethanol quant.M
14	1294891		Sample		ethanol quant.M
15	1294891		Sample		ethanol quant.M
16	1294331		Sample		ethanol quant.M
17	1294331		Sample		ethanol quant.M
18	1296077		Sample		ethanol quant.M
19	1296077		Sample		ethanol quant.M
20	03102016-A/1	0.080	Control		ethanol quant.M
21	1295359		Sample		ethanol quant.M
22	1295359		Sample		ethanol quant.M
23	1295776		Sample		ethanol quant.M
24	1295776		Sample		ethanol quant.M
25	1273562		Sample		ethanol quant.M
26	1273562		Sample		ethanol quant.M
27	1288610		Sample		ethanol quant.M
28	1288610		Sample		ethanol quant.M
29	1295794		Sample		ethanol quant.M
30	1295794		Sample		ethanol quant.M
31	09022015-C	0.150	Control		ethanol quant.M
32	1296844		Sample		ethanol quant.M
33	1296844		Sample		ethanol quant.M
34	1295354		Sample		ethanol quant.M
35	1295354		Sample		ethanol quant.M
36	08012015-C	0.400	Control		ethanol quant.M
37	09022015-A	0.040	Control		ethanol quant.M
38	407041529/13	0.198	Control		ethanol quant.M
39	040919WB	Negative	Control		ethanol quant.M

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Scottsdale Police Department Crime Laboratory

Summary of Cases

ee

SEQUENCE NAME: 03Dec19

ANALYST: Canonico

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.1783	0.1759	0.17710	0.68	0.00120
12 13	0.0932	0.0932	0.09320	0.00	0.00000
14 15	0.1572	0.1560	0.15660	0.38	0.00060
16 17	0.0985	0.0997	0.09910	0.61	0.00060
18 19	0.1396	0.1407	0.14015	0.39	0.00055
21 22	0.0797	0.0790	0.07935	0.44	0.00035
23 24	0.0970	0.0959	0.09645	0.57	0.00055
25 26	0.1784	0.1756	0.17700	0.79	0.00140
27 28	0.0000	0.0000	0.00000	0.00	0.00000
29 30	0.2360	0.2359	0.23595	0.02	0.00005
32 33	0.1672	0.1661	0.16665	0.33	0.00055
34 35	0.3016	0.2985	0.30005	0.52	0.00155

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

Scottsdale Forensic Lab Blood Alcohol Pipetting Log

EL

ANALYST: Canonico

SEQUENCE: 03Dec19

Instrument Position	Headspace Vial 1	Headspace Vial 2	Blood Tube	Barcode Match
Vials 10 and 11	1265993	1265993	1265993	Yes
Vials 12 and 13	1280949	1280949	1280949	Yes
Vials 14 and 15	1294891	1294891	1294891	Yes
Vials 16 and 17	1294331	1294331	1294331	Yes
Vials 18 and 19	1296077	1296077	1296077	Yes
Vials 21 and 22	1295359	1295359	1295359	Yes
Vials 23 and 24	1295776	1295776	1295776	Yes
Vials 25 and 26	1273562	1273562	1273562	Yes
Vials 27 and 28	1288610	1288610	1288610	Yes
Vials 29 and 30	1295794	1295794	1295794	Yes
Vials 32 and 33	1296844	1296844	1296844	Yes
Vials 34 and 35	1295354	1295354	1295354	Yes

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1265993	Vial:	10
Description:	██████████	LIMS ID:	██████████
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 2:41:42 PM
Data file:	C:\Chem32\1\Data\03Dec19\10.D	Analyst:	Canonico

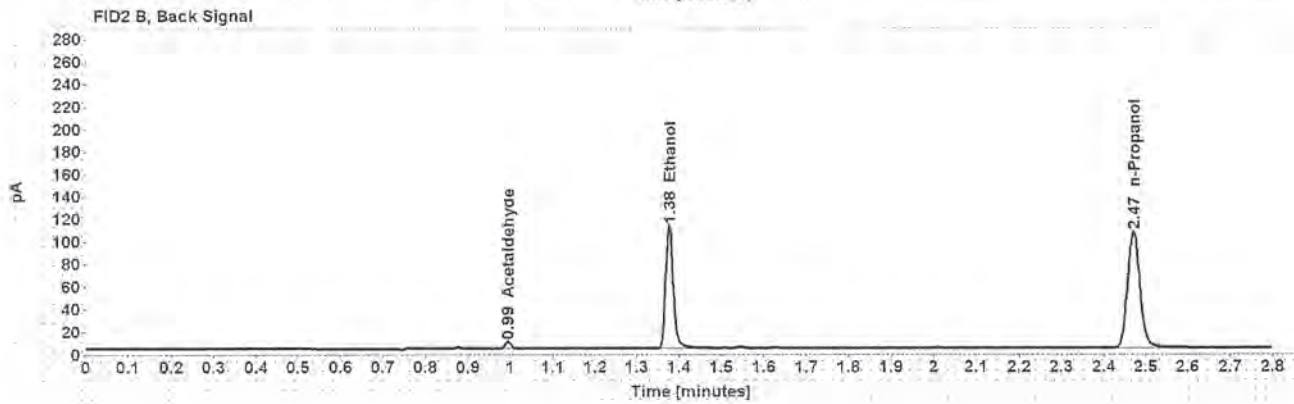
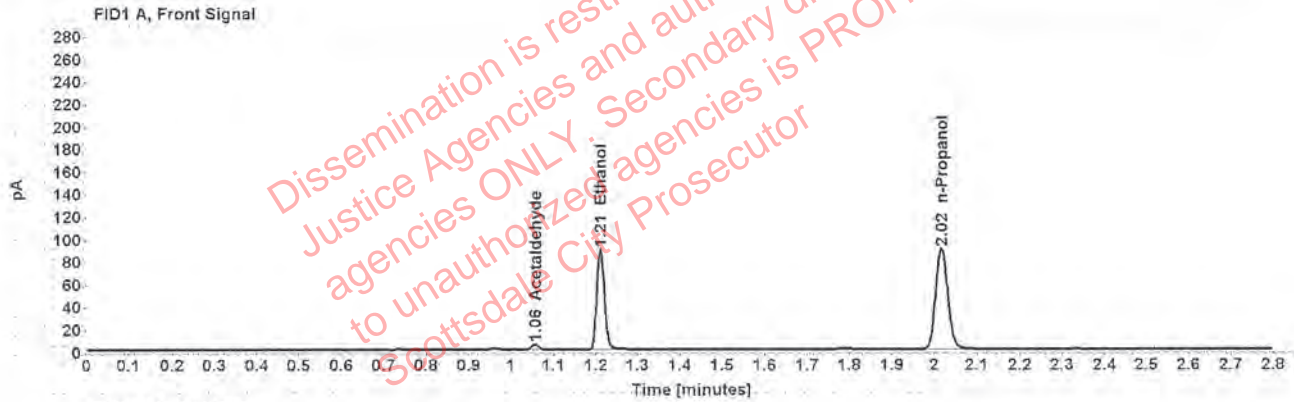


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.056	4.564
>Ethanol	0.1783	1.211	113.921
n-Propanol	-----	2.016	178.650

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	5.907
Ethanol	1.377	141.161
n-Propanol	2.471	214.496

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1265993	Vial:	11
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 2:45:42 PM
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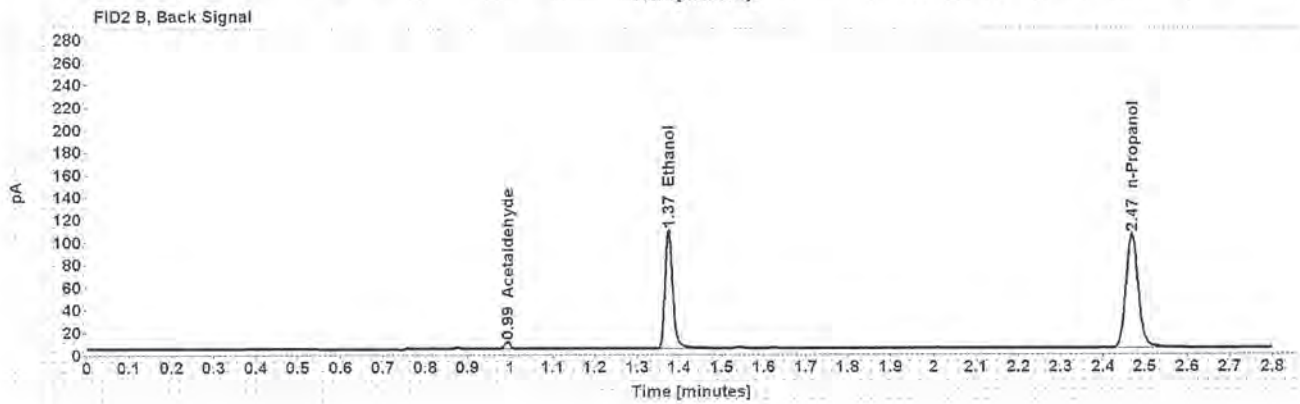
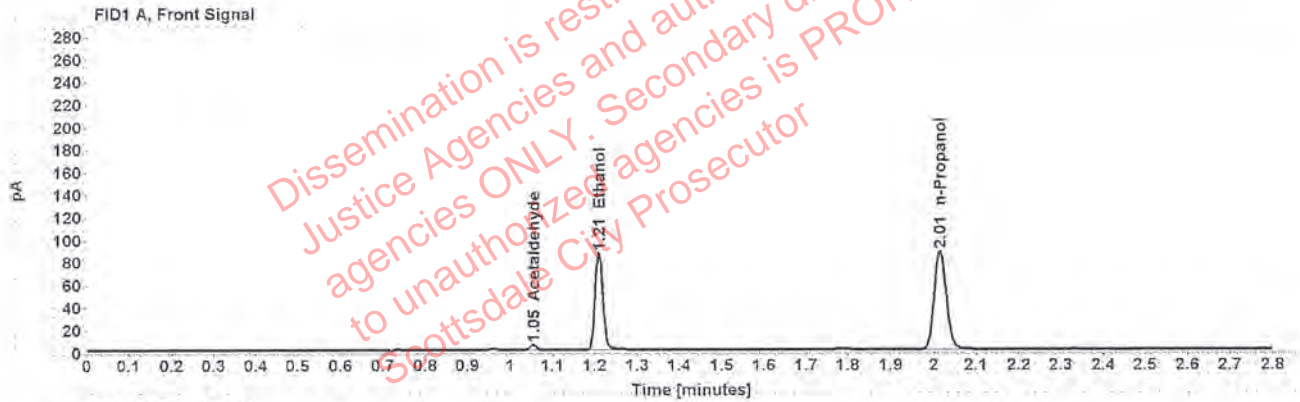


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.055	4.599
>Ethanol	0.1759	1.209	110.201
n-Propanol	-----	2.015	175.224

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	6.007
Ethanol	1.374	136.411
n-Propanol	2.468	209.717

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1280949	Vial:	12
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 2:49:42 PM
Data file:	C:\Chem32\11\Data\03Dec19\12.D	Analyst:	Canonico

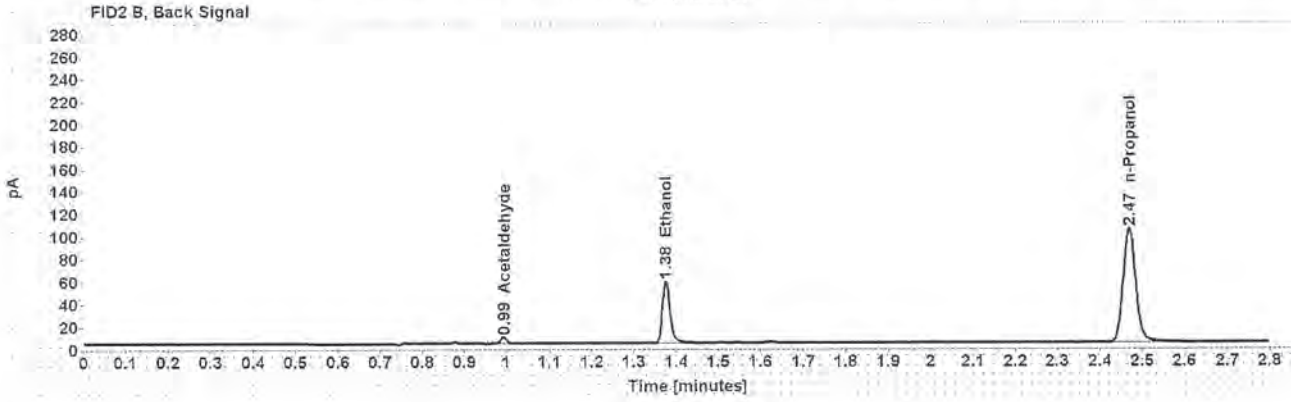
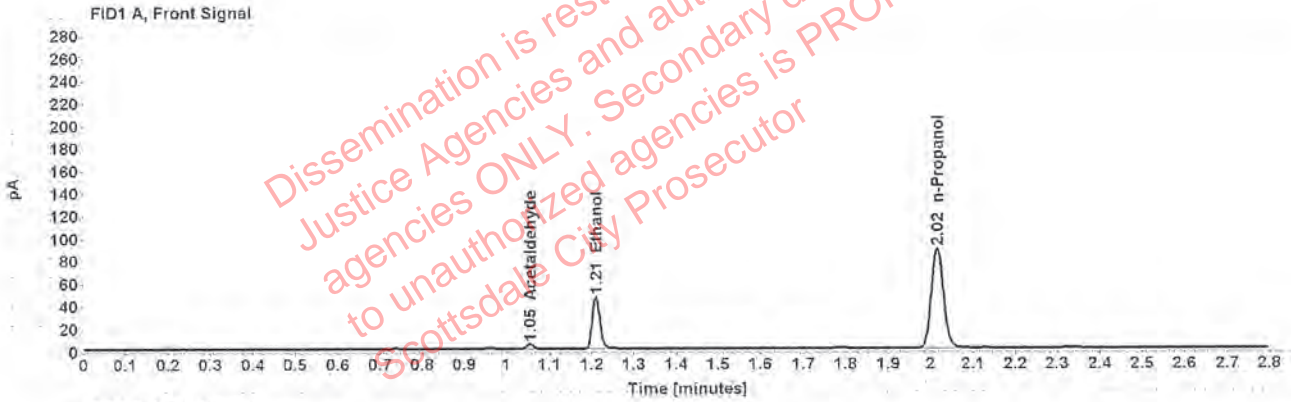


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.055	4.337
>Ethanol	0.0932	1.210	58.245
n-Propanol	-----	2.015	175.927

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	5.625
Ethanol	1.375	70.603
n-Propanol	2.469	210.741

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1280949	Vial:	13
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 2:53:56 PM
Data file:	C:\Chem32\11\Data\03Dec19\13.D	Analyst:	Canonico

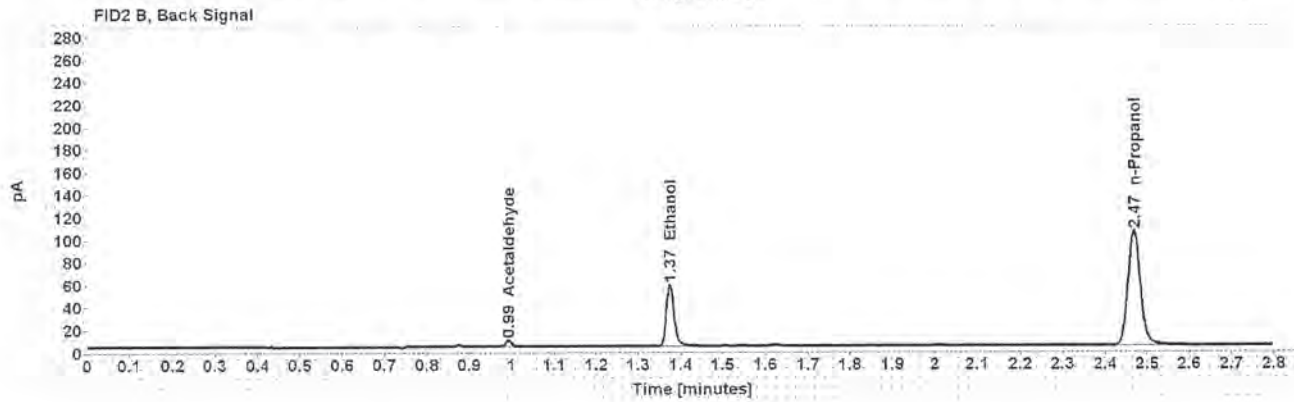
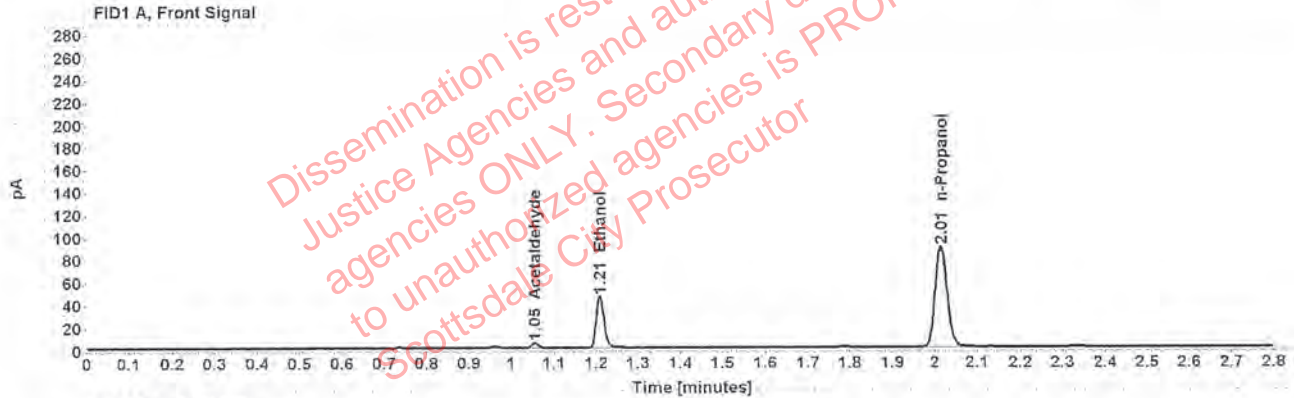


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.055	4.222
>Ethanol	0.0932	1.209	58.639
n-Propanol	-----	2.014	177.194

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	5.489
Ethanol	1.374	70.769
n-Propanol	2.468	212.377

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1294891	Vial:	14
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 2:57:58 PM
Data file:	C:\Chem32\1\Data\03Dec19\14.D	Analyst:	Canonico

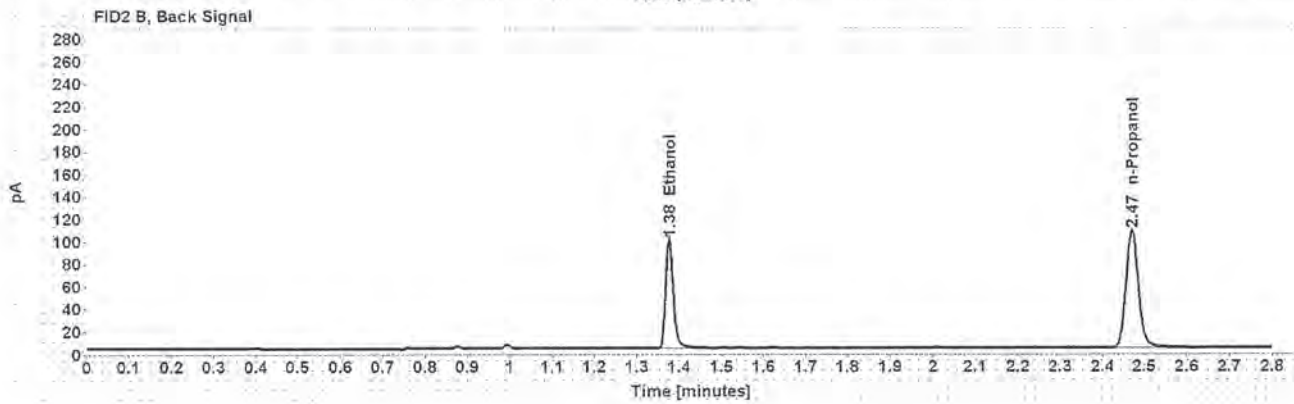
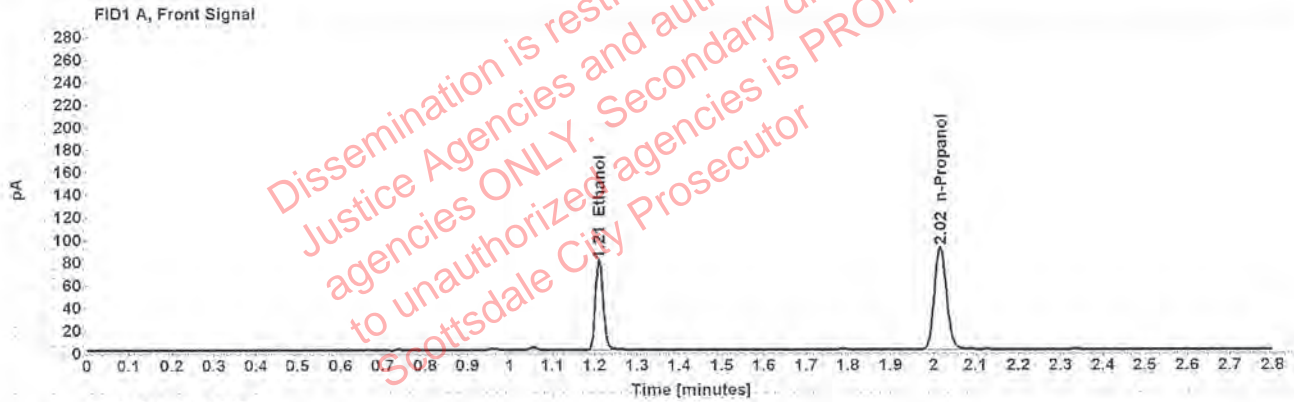


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1572	1.210	101.494
n-Propanol	-----	2.016	180.723

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

Compound	Time (min)	Peak Area
Ethanol	1.376	125.442
n-Propanol	2.470	217.127

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1294891	Vial:	15
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:01:58 PM
Data file:	C:\Chem32\1\Data\03Dec19\15.D	Analyst:	Canonico

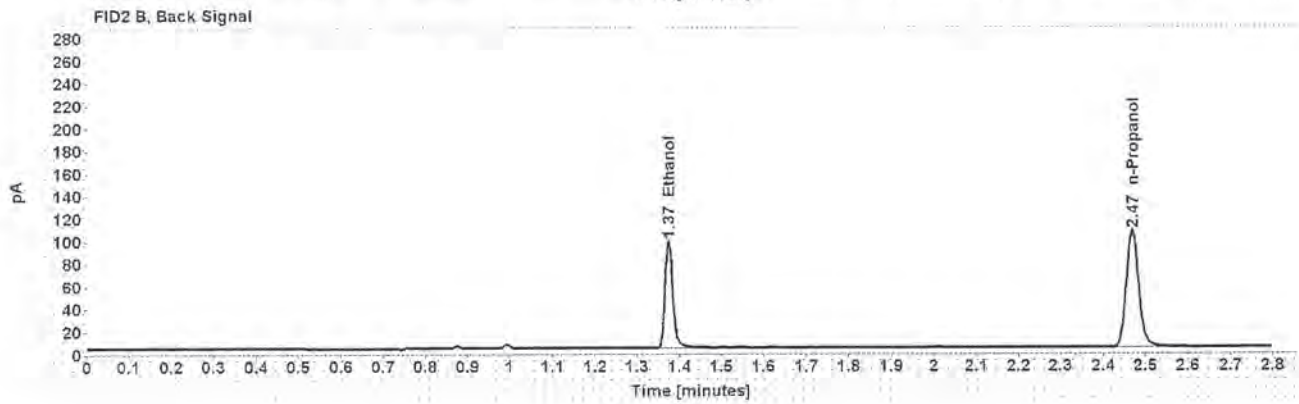
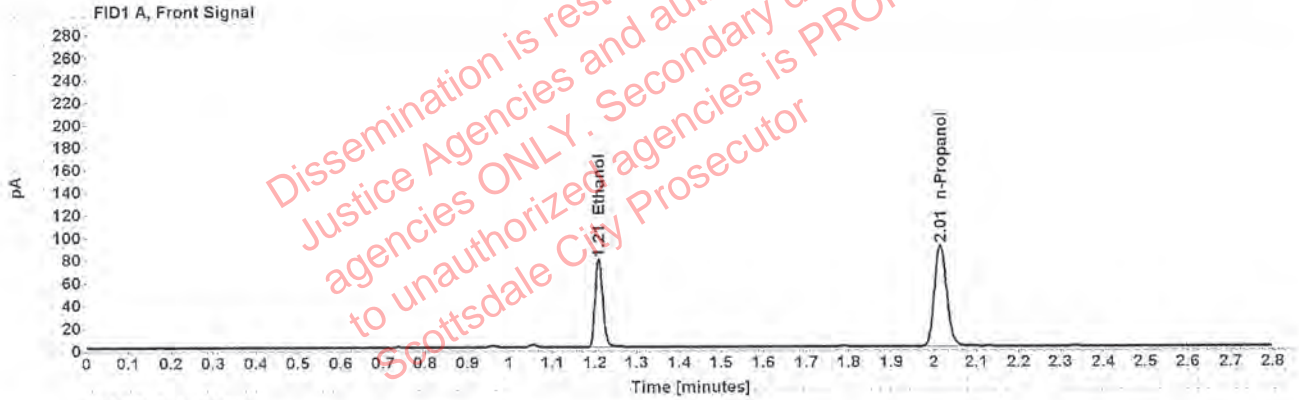


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1560	1.209	99.843
n-Propanol	-----	2.015	179.179

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

Compound	Time (min)	Peak Area
Ethanol	1.375	123.759
n-Propanol	2.468	214.632

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1294331	Vial:	16
Description:	██████████	LIMS ID:	██████████
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:05:57 PM
Data file:	C:\Chem32\1\Data\03Dec19\16.D	Analyst:	Canonico

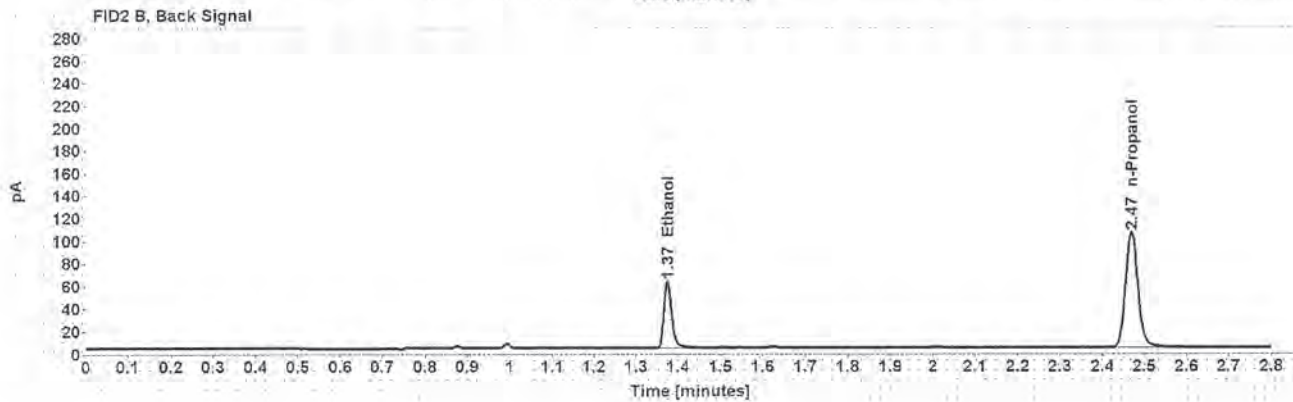
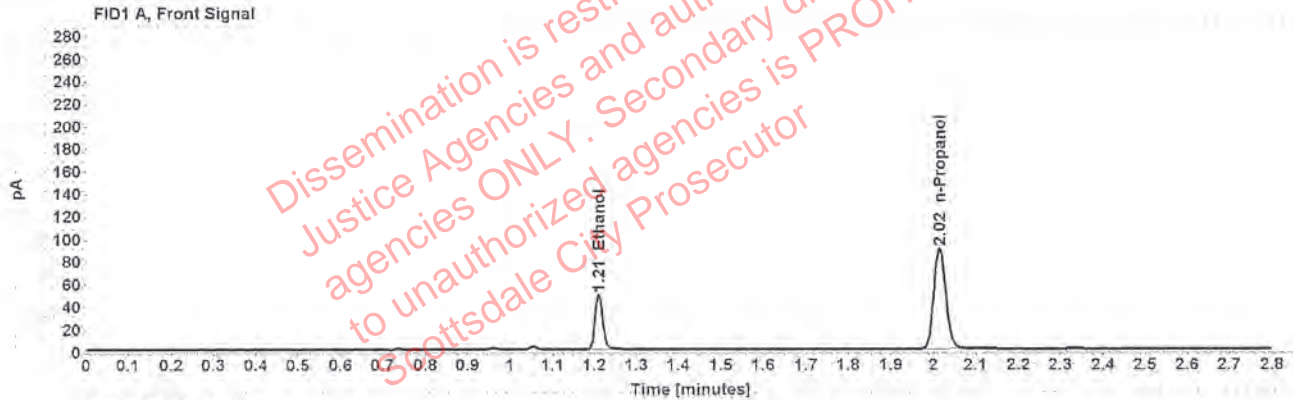


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0985	1.210	62.366
n-Propanol	-----	2.015	178.110

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

Compound	Time (min)	Peak Area
Ethanol	1.375	75.849
n-Propanol	2.469	213.505

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1294331	Vial:	17
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:09:58 PM
Data file:	C:\Chem32\1\Data\03Dec19\17.D	Analyst:	Canonico

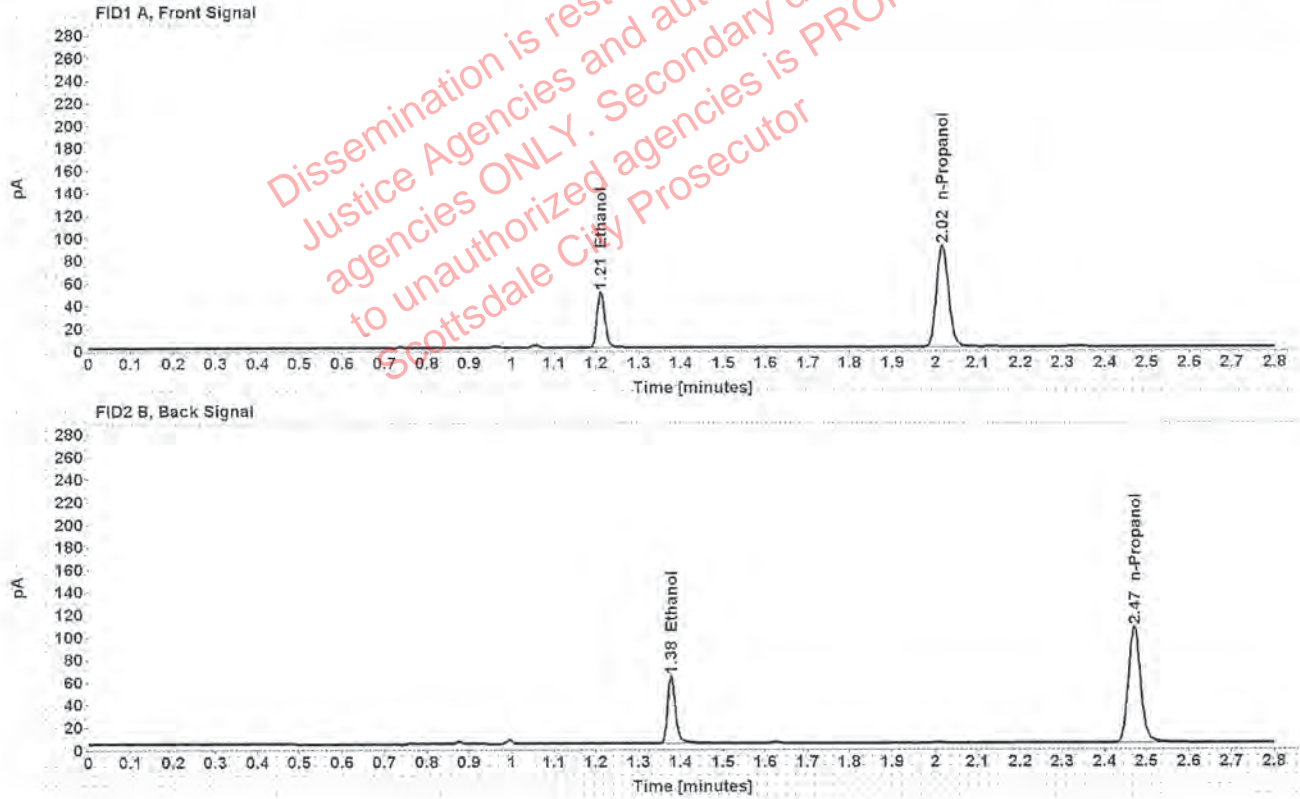


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0997	1.211	63.338
n-Propanol	-----	2.016	178.658

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

Compound	Time (min)	Peak Area
Ethanol	1.377	77.245
n-Propanol	2.471	214.155

Case: [REDACTED] User: ecanonico 12/4/2019

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1296077	Vial:	18
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:13:57 PM
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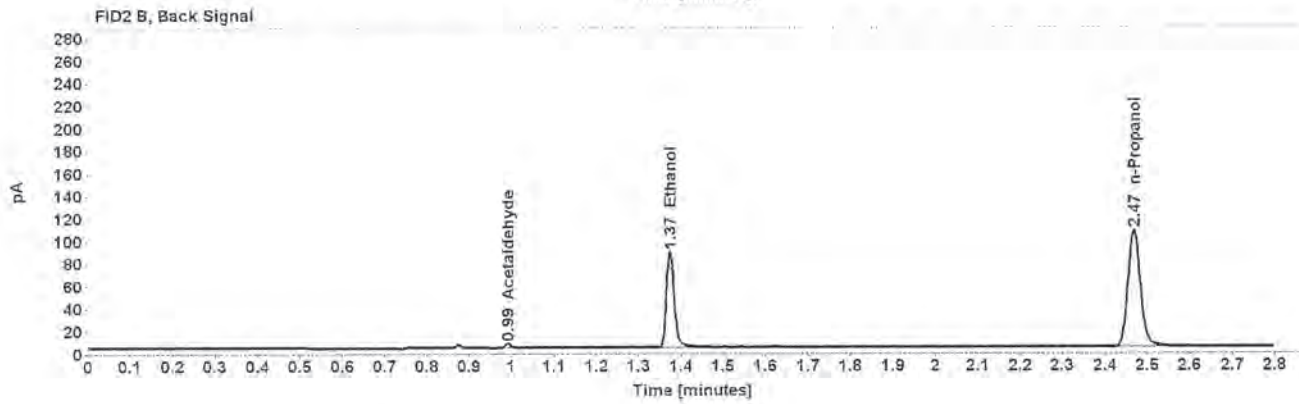
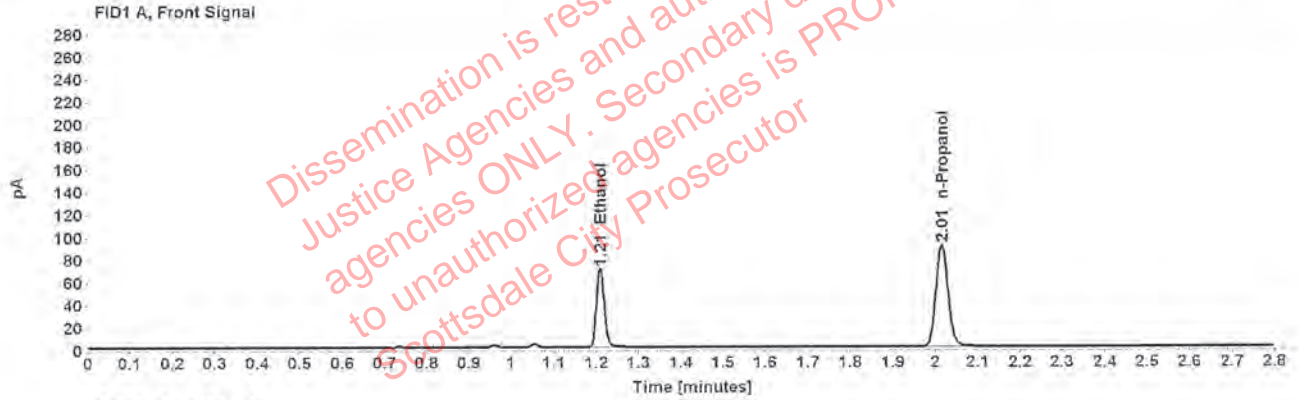


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1396	1.209	89.788
n-Propanol	-----	2.015	180.196

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	3.764
Ethanol	1.374	110.890
n-Propanol	2.468	216.514

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1296077	Vial:	19
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:18:13 PM
Data file:	C:\Chem32\1\Data\03Dec19\19.D	Analyst:	Canonico

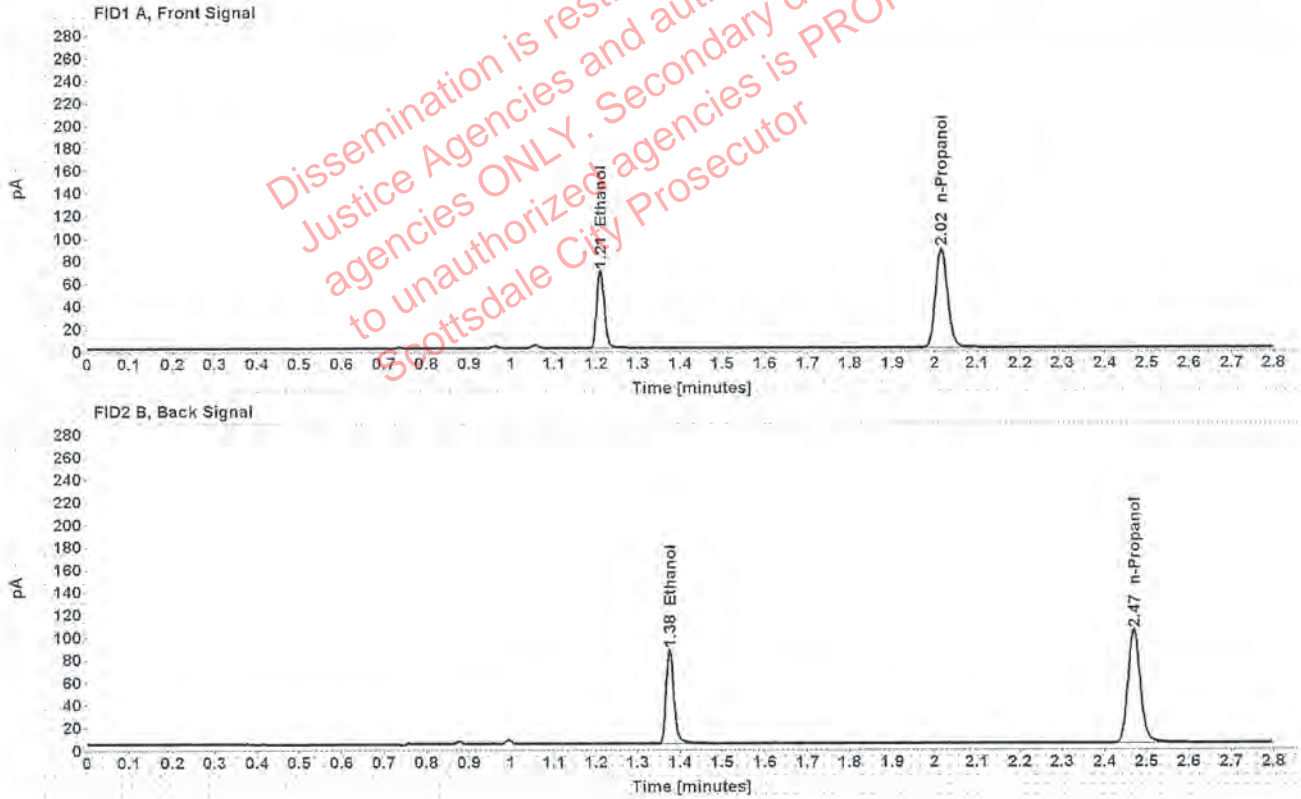


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1407	1.210	87.784
n-Propanol	-----	2.016	174.858

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

Compound	Time (min)	Peak Area
Ethanol	1.376	108.522
n-Propanol	2.469	209.379

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 1295359	Vial: 21
Description: ██████████	LIMS ID: ██████████
Method: ethanol quant.M	Sequence: 03Dec19
Instrument: US14173023 CN14160045	Injection date: 12/3/2019 3:26:13 PM
Data file: C:\Chem32\1\Data\03Dec19\21.D	Analyst: Canonico

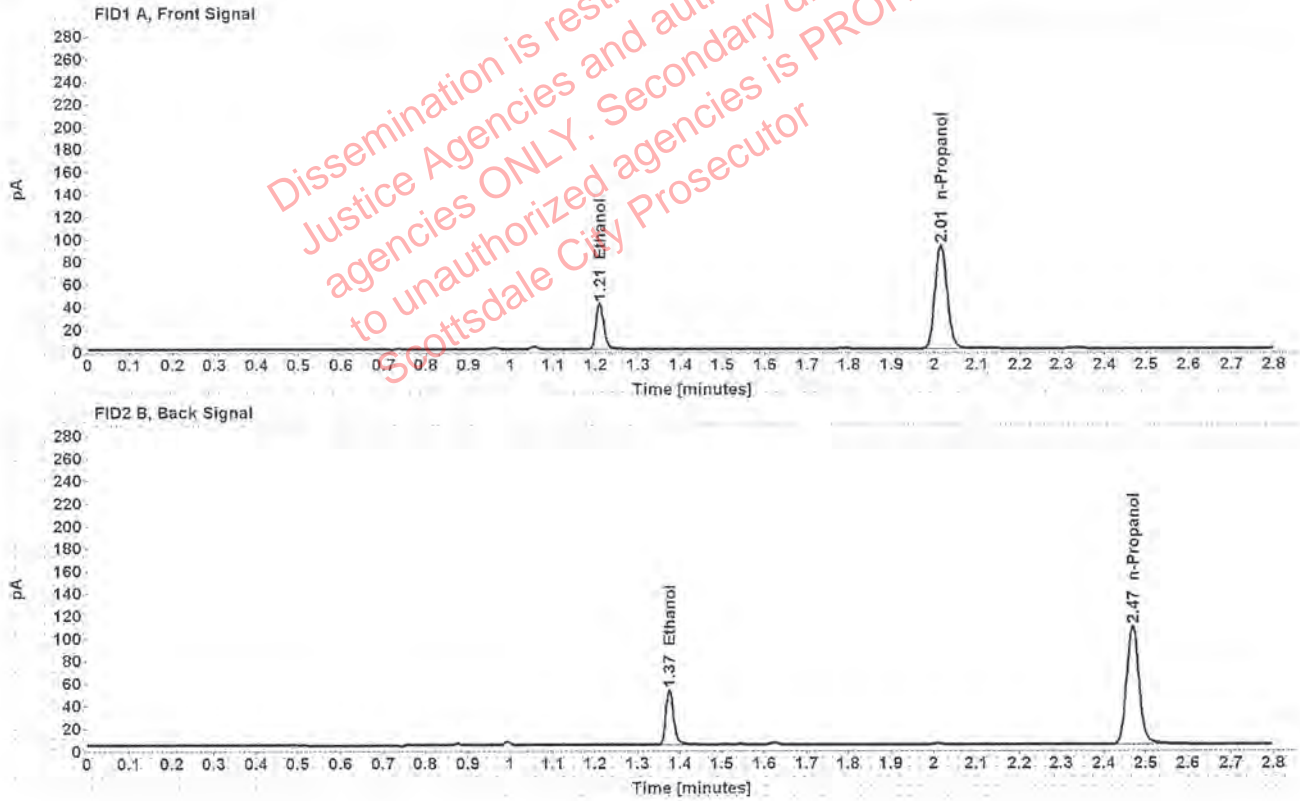


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0797	1.210	52.201
n-Propanol	-----	2.015	184.762

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

Compound	Time (min)	Peak Area
Ethanol	1.375	63.473
n-Propanol	2.468	220.033

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1295359	Vial:	22
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
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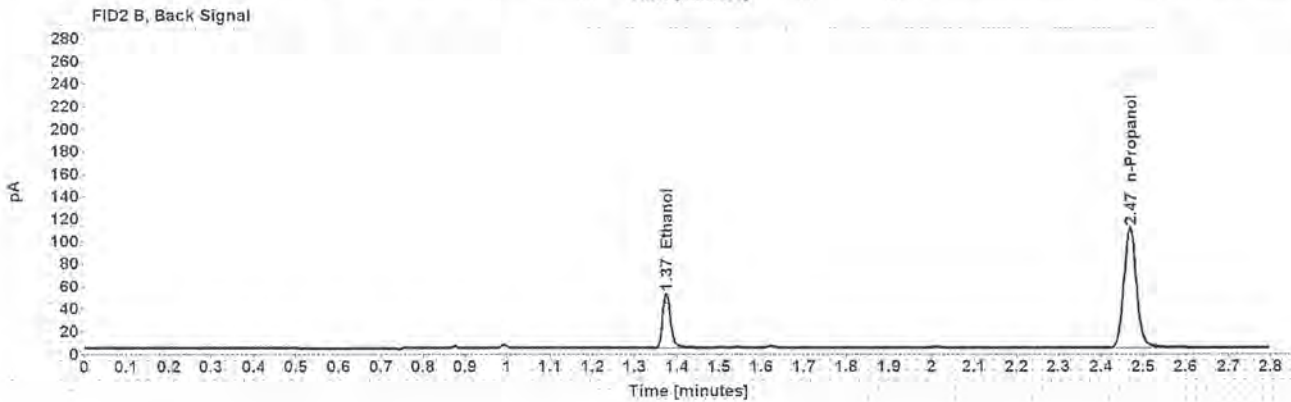
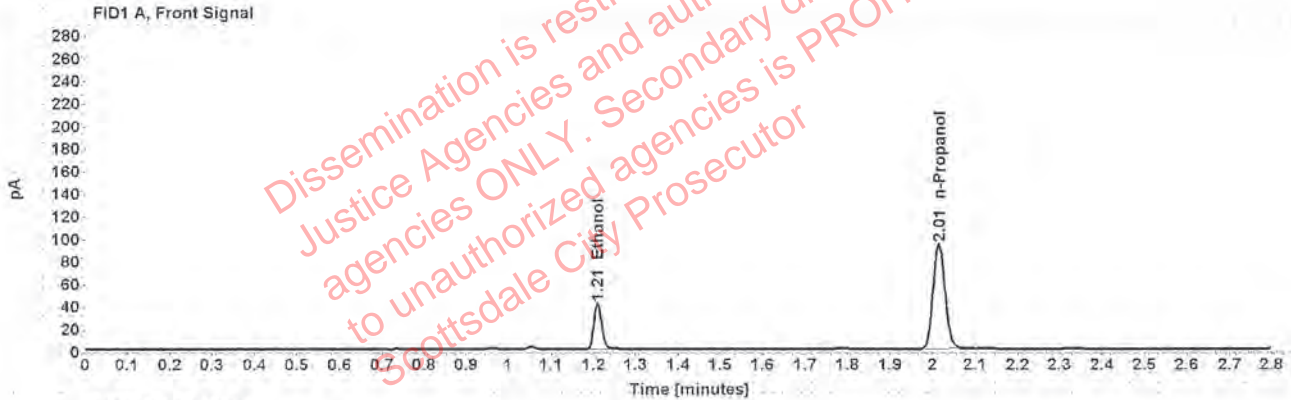


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0790	1.209	51.998
n-Propanol	-----	2.014	185.721

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

Compound	Time (min)	Peak Area
Ethanol	1.374	63.159
n-Propanol	2.468	223.285

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1295776	Vial:	23
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:34:13 PM
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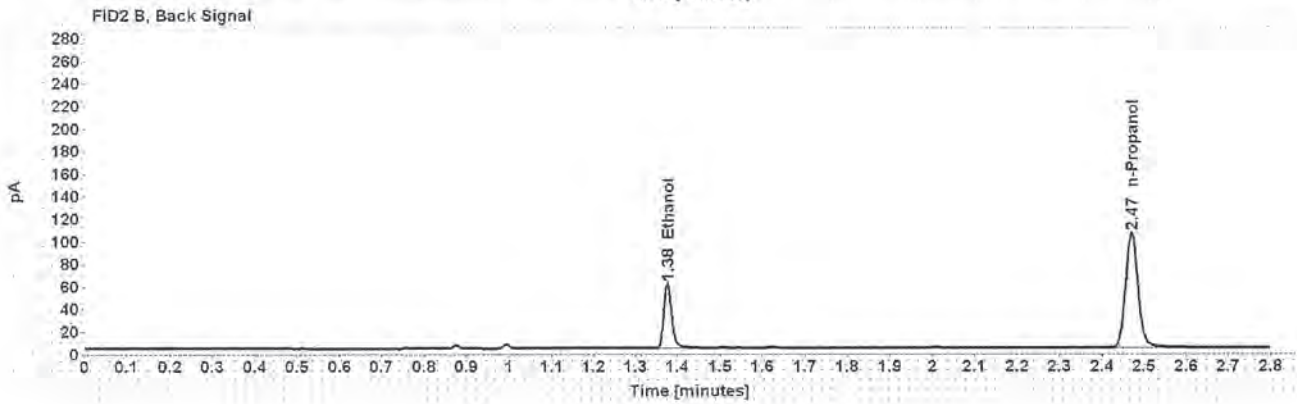
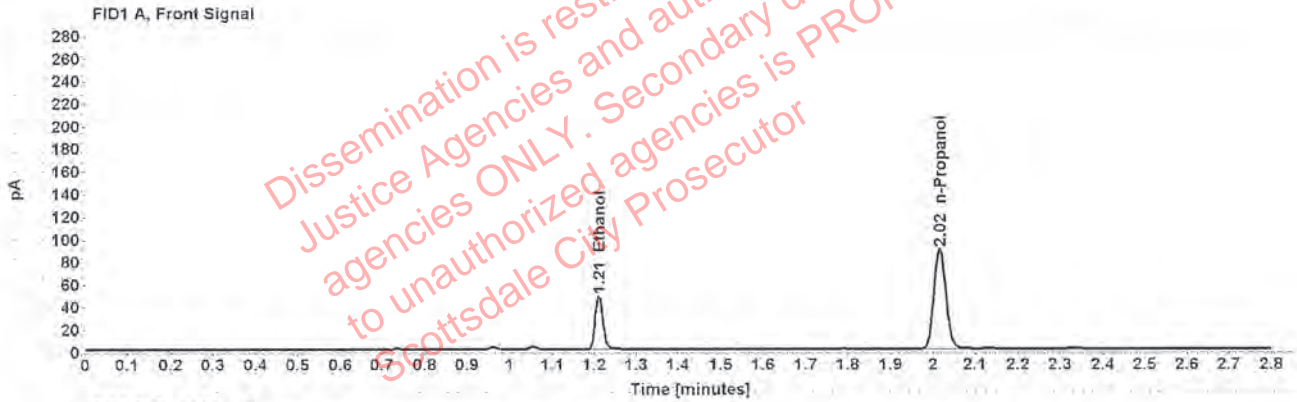


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0970	1.211	60.976
n-Propanol	-----	2.016	176.898

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

Compound	Time (min)	Peak Area
Ethanol	1.376	74.124
n-Propanol	2.470	212.721

Case: [REDACTED] User: ecanonico 12/4/2019

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1295776	Vial:	24
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:38:12 PM
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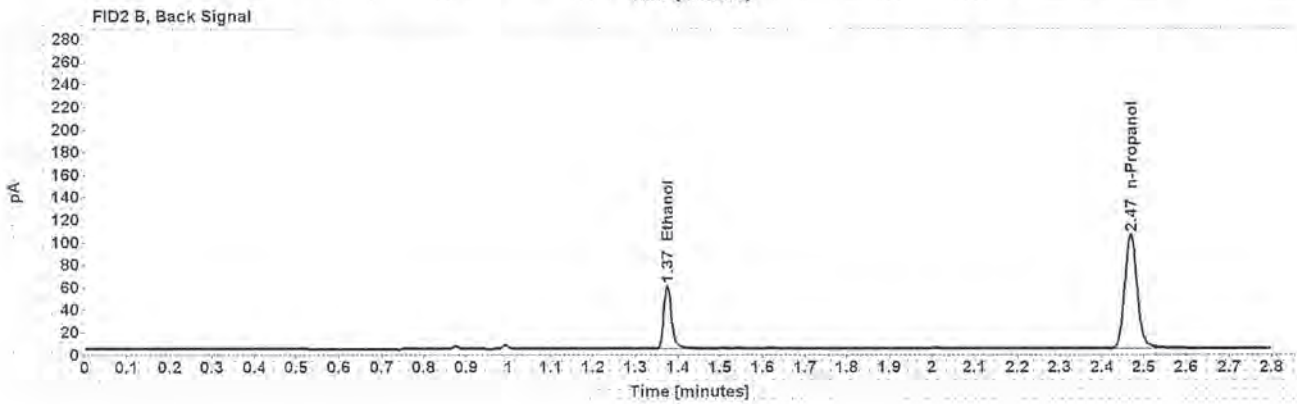
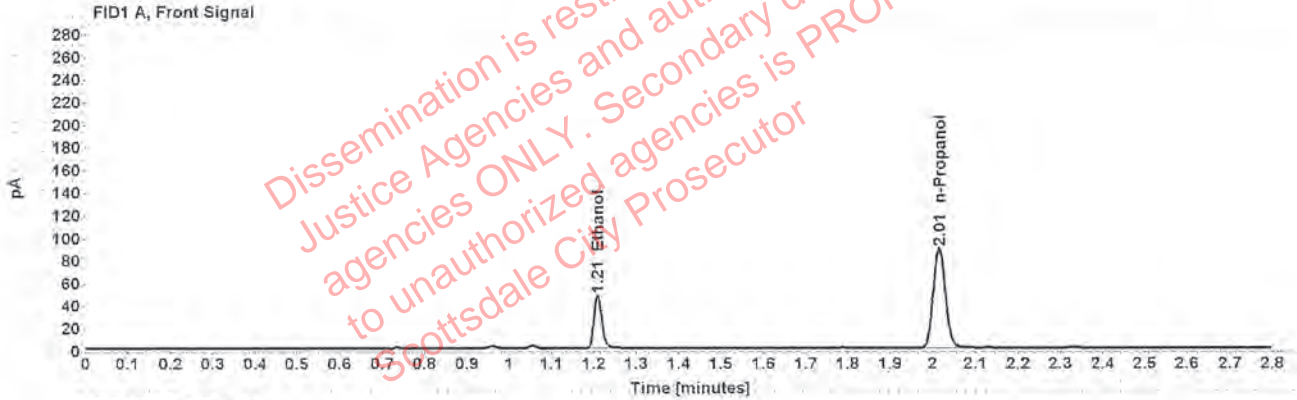


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0959	1.209	60.162
n-Propanol	-----	2.015	176.477

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

Compound	Time (min)	Peak Area
Ethanol	1.375	73.227
n-Propanol	2.468	211.974

Case: [REDACTED] User: ecanonico 12/4/2019

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1273562	Vial:	25
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:42:27 PM
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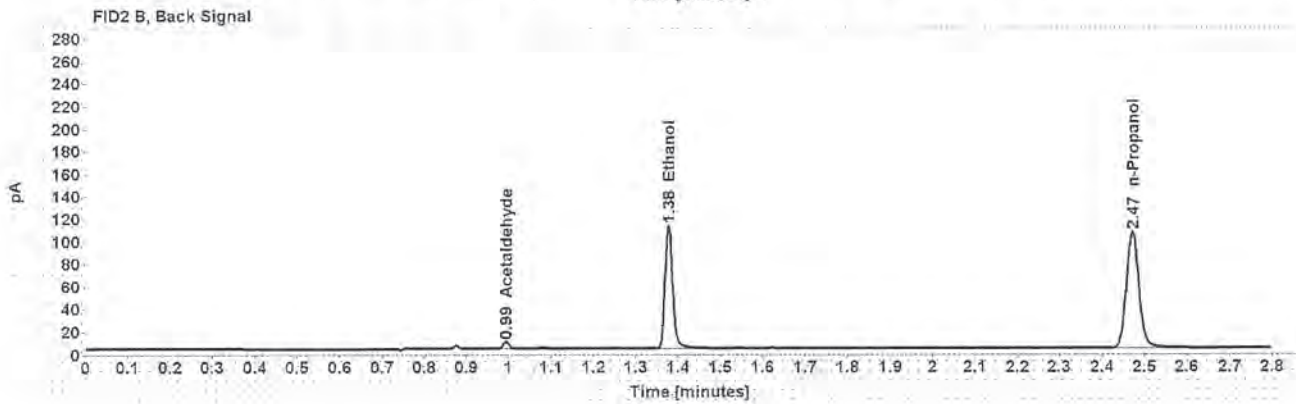
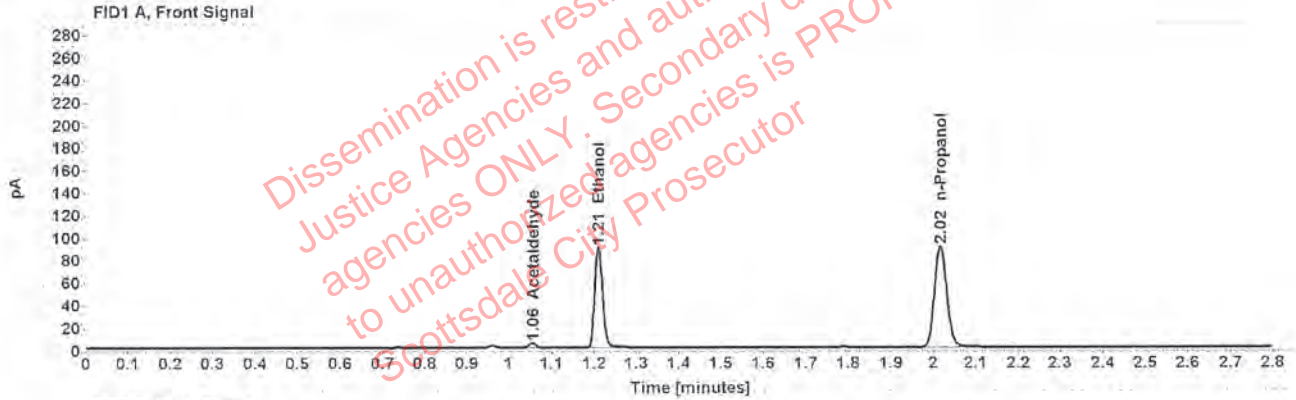


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.056	4.371
>Ethanol	0.1784	1.211	114.725
n-Propanol	-----	2.016	179.833

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	5.686
Ethanol	1.377	141.674
n-Propanol	2.471	215.038

Case: [REDACTED] User: ecanonico 12/4/2019

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1273562	Vial:	26
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
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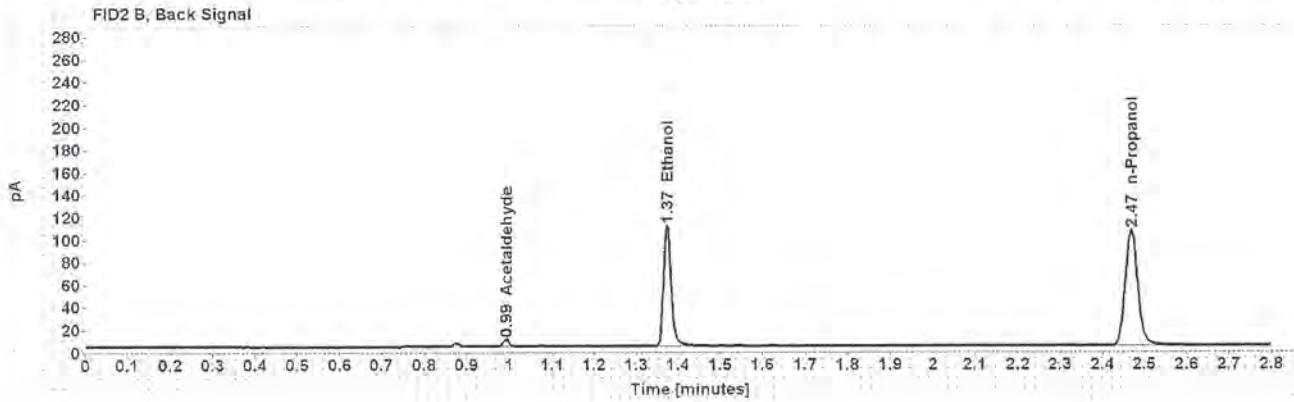
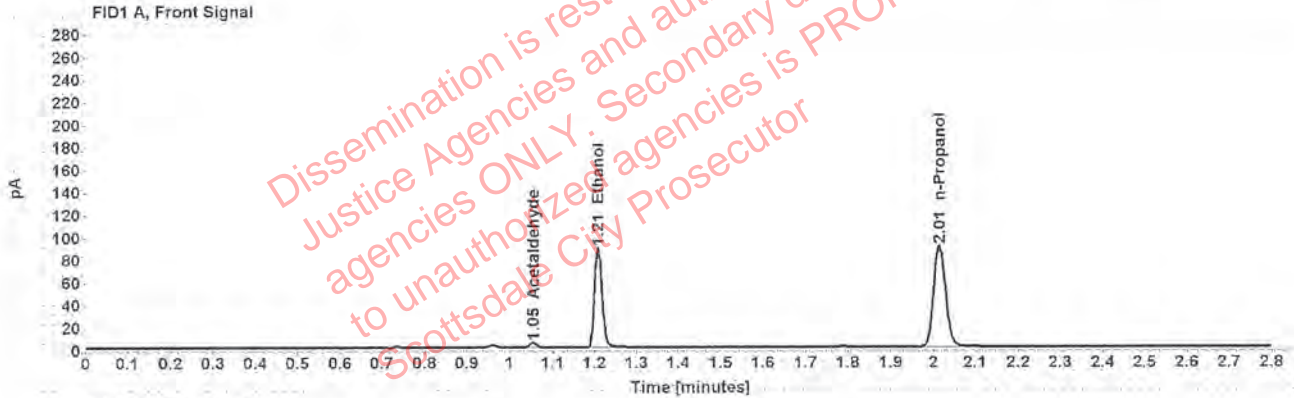


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	-----	1.055	4.480
>Ethanol	0.1756	1.209	112.422
n-Propanol	-----	2.015	179.060

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	5.895
Ethanol	1.374	139.240
n-Propanol	2.468	214.899

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1288610	Vial:	27
Description:	██████████	LIMS ID:	██████████
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:50:28 PM
Data file:	C:\Chem32\1\Data\03Dec19\27.D	Analyst:	Canonico

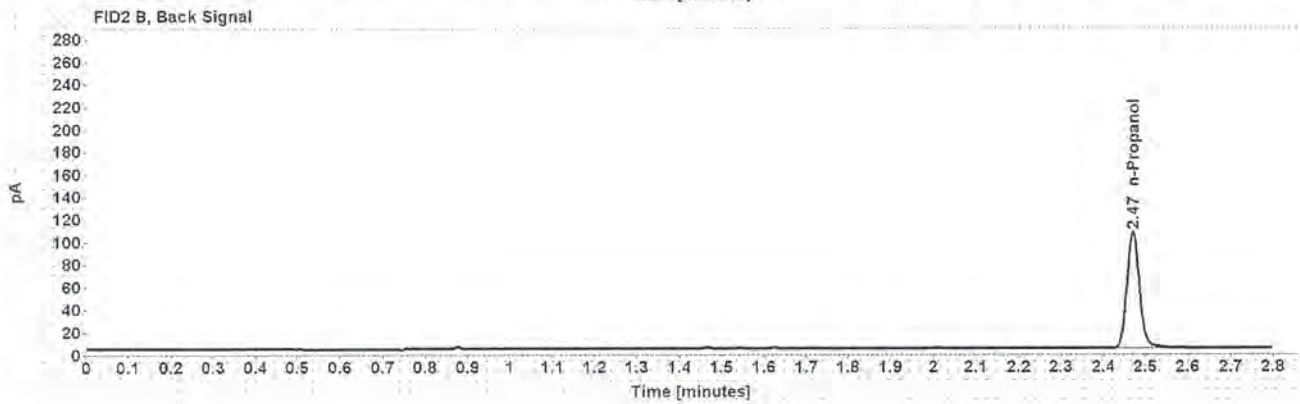


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.016	179.646

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

Compound	Time (min)	Peak Area
n-Propanol	2.470	214.884

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1288610	Vial:	28
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:54:28 PM
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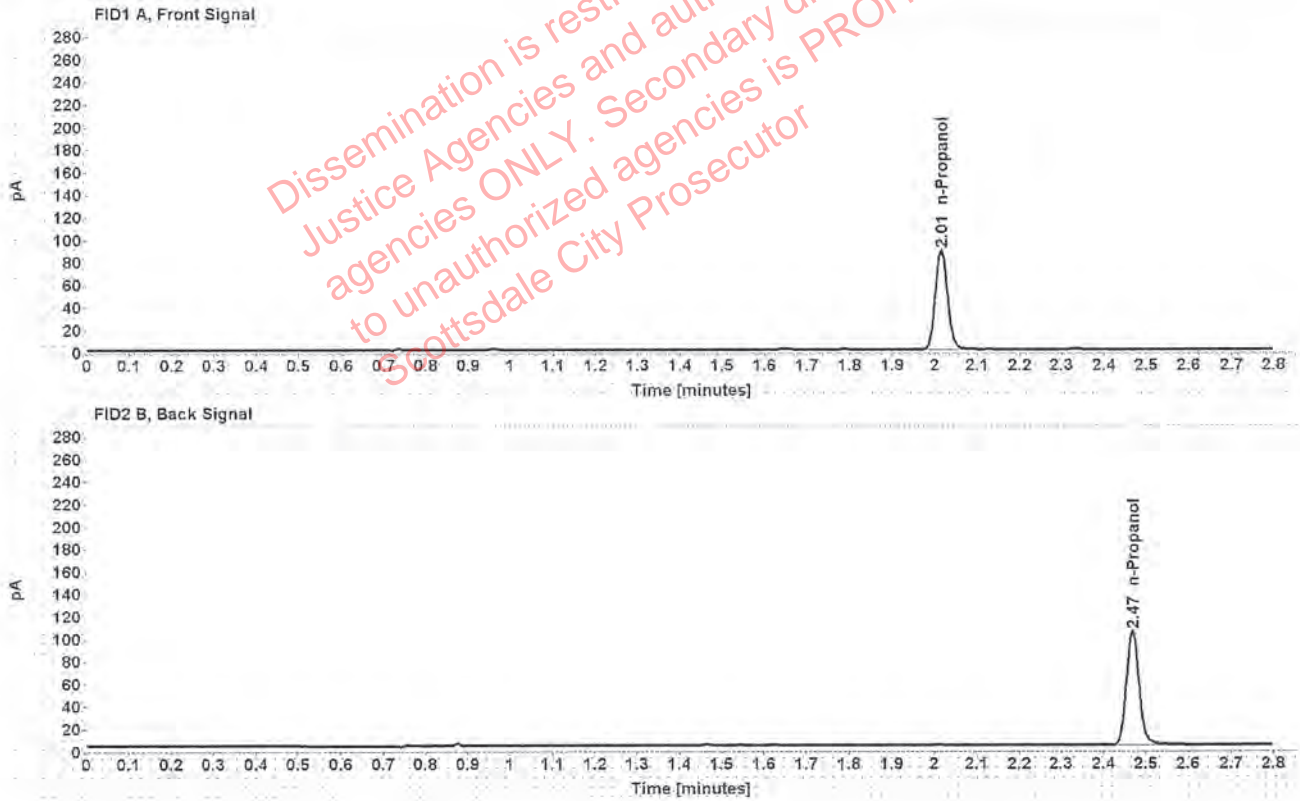


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	-----	2.015	176.225

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

Compound	Time (min)	Peak Area
n-Propanol	2.468	211.331

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1295794	Vial:	29
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 3:58:28 PM
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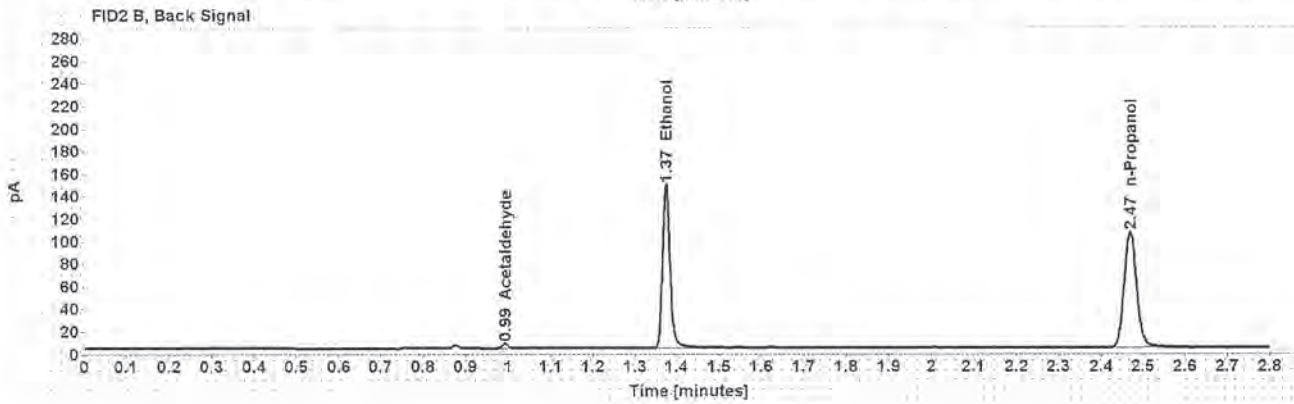
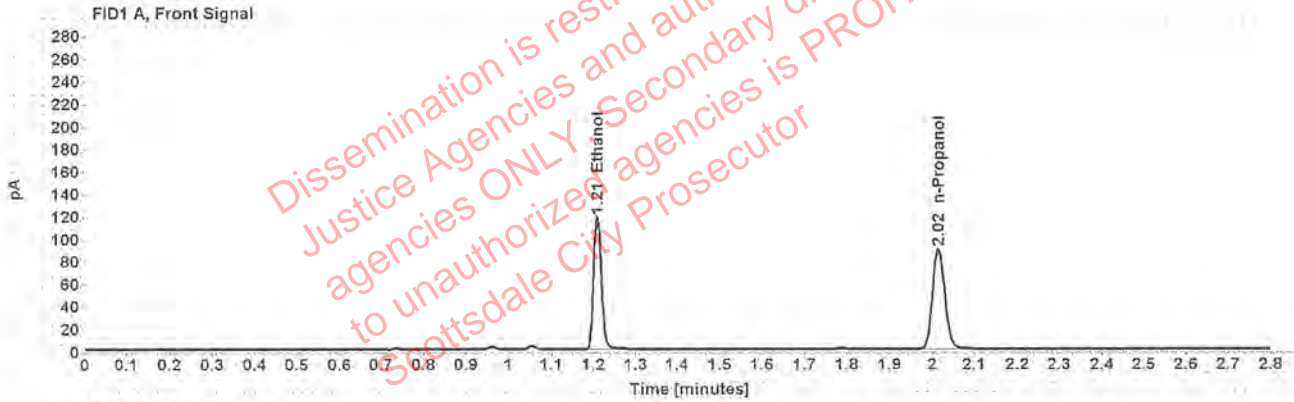


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2360	1.209	151.079
n-Propanol	-----	2.015	178.661

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	4.084
Ethanol	1.375	186.903
n-Propanol	2.469	212.676

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1295794	Vial:	30
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 4:02:27 PM
Data file:	C:\Chem32\1\Data\03Dec19\30.D	Analyst:	Canonico

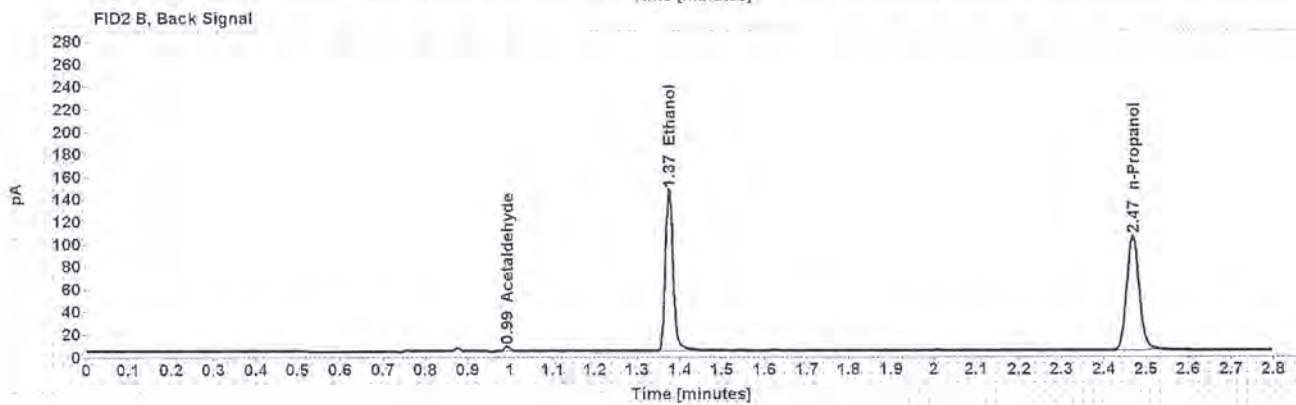
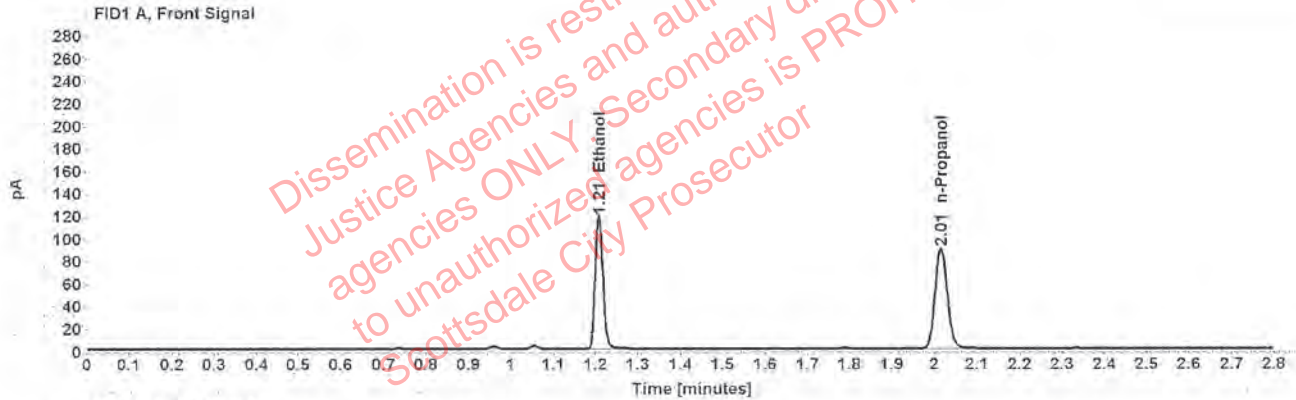


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2359	1.209	149.883
n-Propanol	---	2.015	177.317

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	4.073
Ethanol	1.374	185.172
n-Propanol	2.468	211.418

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1296844	Vial:	32
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 4:10:42 PM
Data file:	C:\Chem32\1\Data\03Dec19\32.D	Analyst:	Canonico

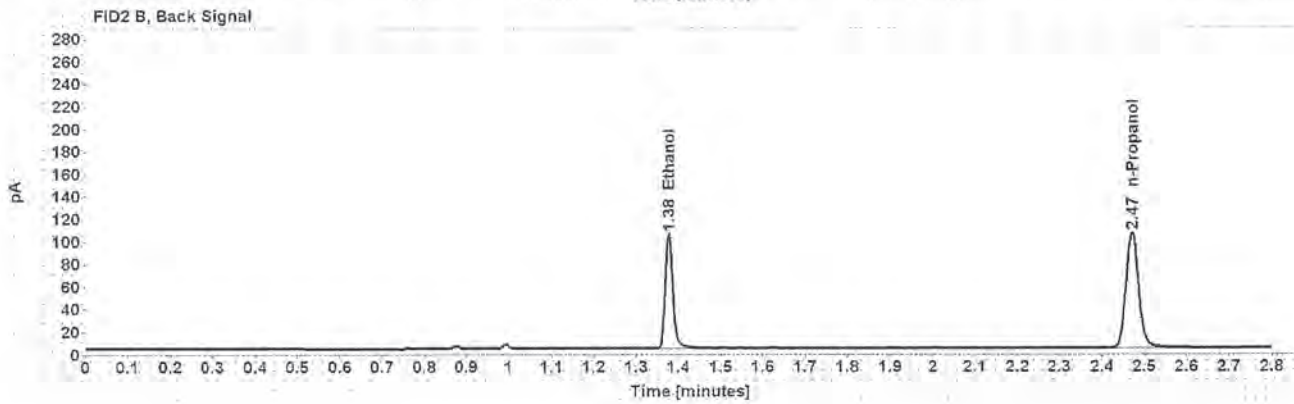
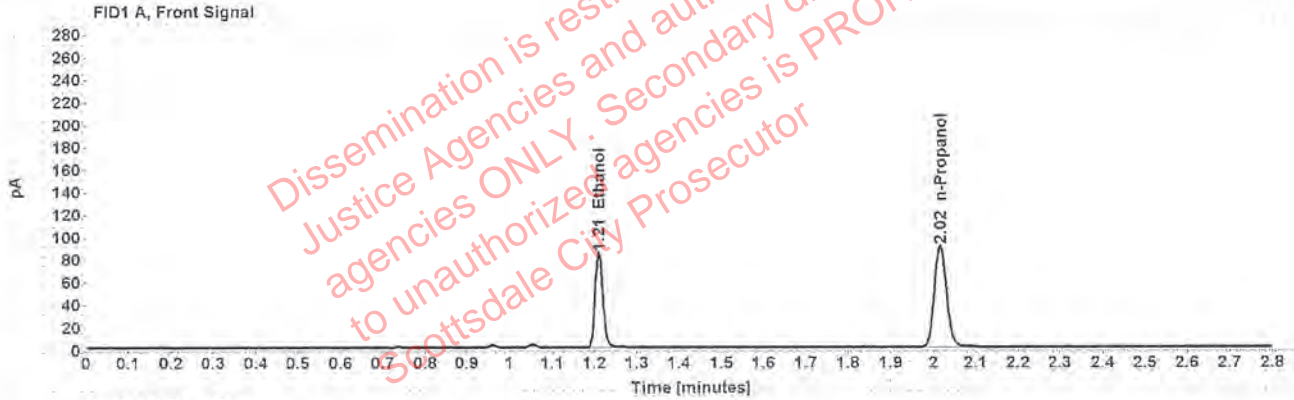


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1672	1.210	106.973
n-Propanol	-----	2.016	178.972

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

Compound	Time (min)	Peak Area
Ethanol	1.376	132.434
n-Propanol	2.470	213.432

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample: 1296844	Vial: 33
Description: ██████████	LIMS ID: ██████████
Method: ethanol quant.M	Sequence: 03Dec19
Instrument: US14173023 CN14160045	Injection date: 12/3/2019 4:14:42 PM
Data file: C:\Chem32\1\Data\03Dec19\33.D	Analyst: Canonico <i>EC</i>

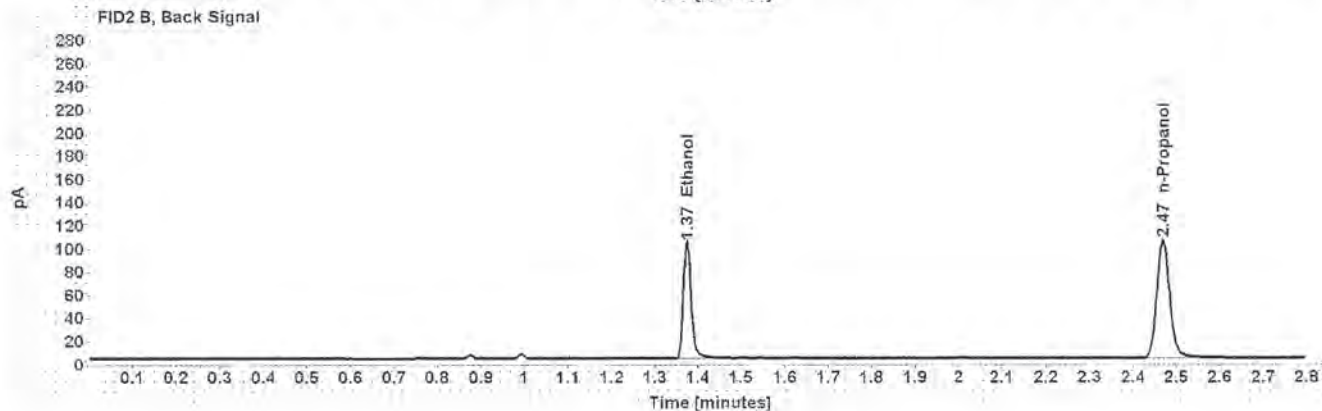
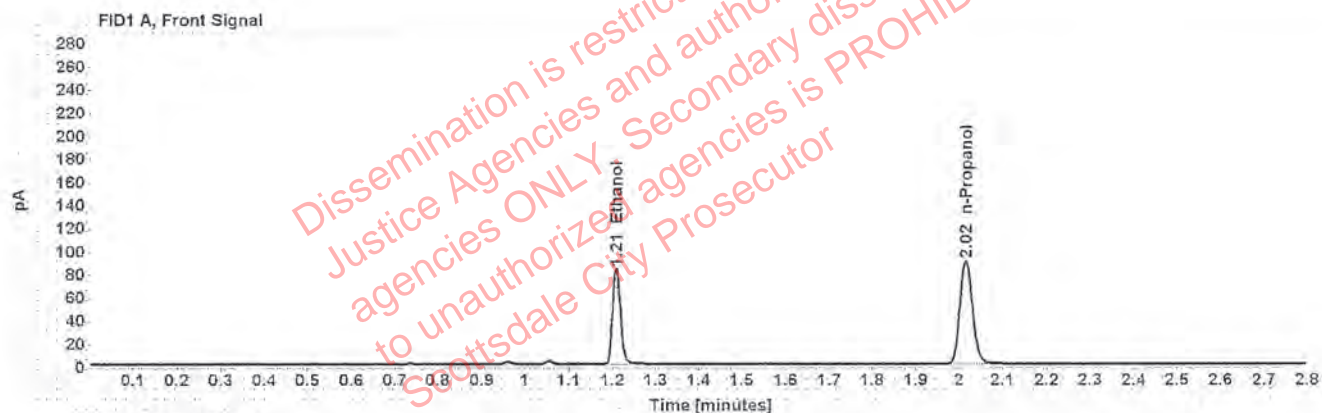


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1661	1.209	105.967
n-Propanol	-----	2.015	178.518

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

Compound	Time (min)	Peak Area
Ethanol	1.375	131.297
n-Propanol	2.469	214.478

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1295354	Vial:	34
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 4:18:42 PM
Data file:	C:\Chem32\1\Data\03Dec19\34.D	Analyst:	Canonico

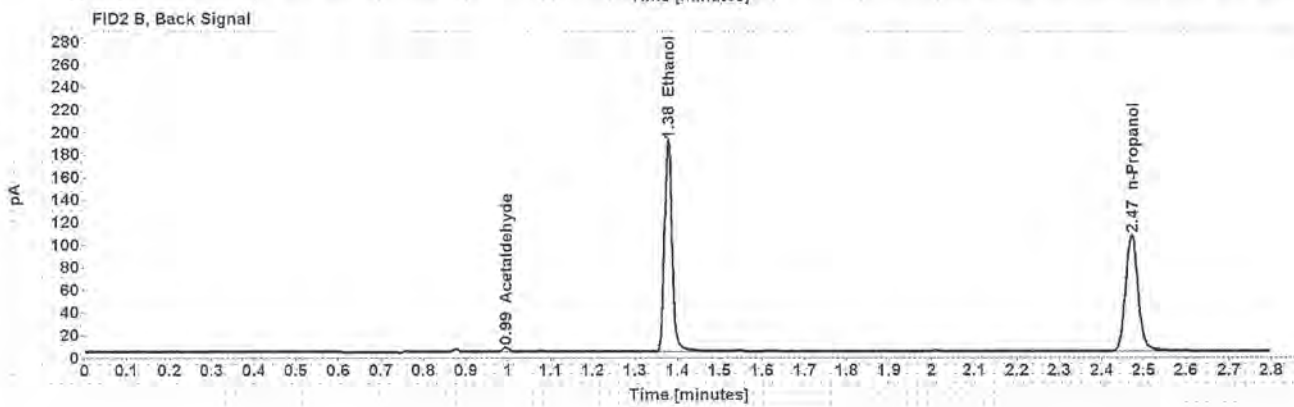
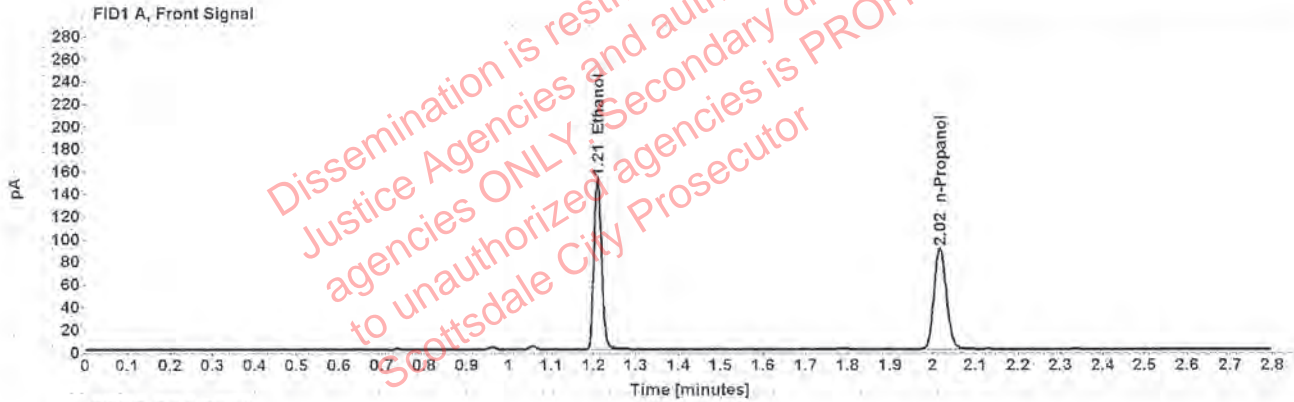


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3016	1.210	193,652
n-Propanol	-----	2.016	178,961

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.994	4.054
Ethanol	1.377	239,049
n-Propanol	2.471	215,413

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	1295354	Vial:	35
Description:	[REDACTED]	LIMS ID:	[REDACTED]
Method:	ethanol quant.M	Sequence:	03Dec19
Instrument:	US14173023 CN14160045	Injection date:	12/3/2019 4:22:42 PM
Data file:	C:\Chem32\1\Data\03Dec19\35.D	Analyst:	Canonico

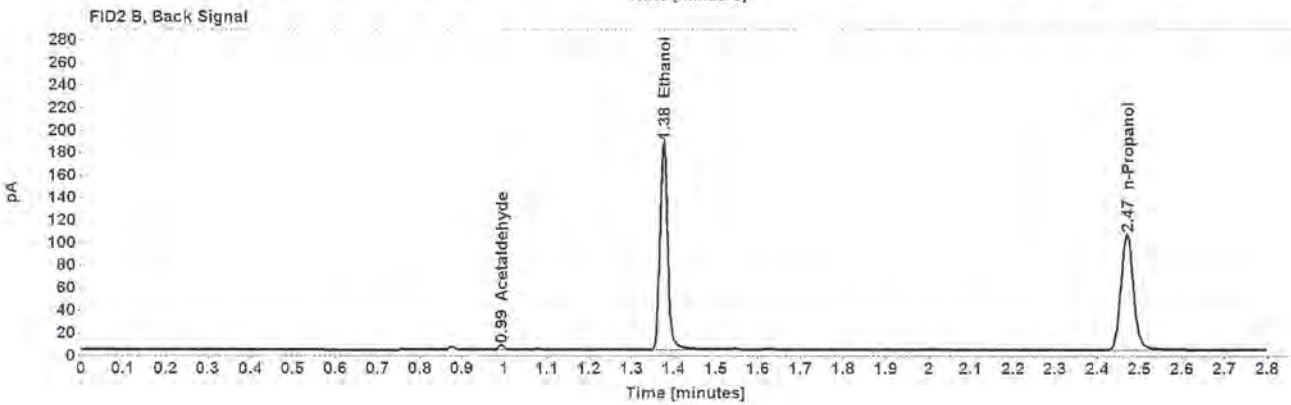
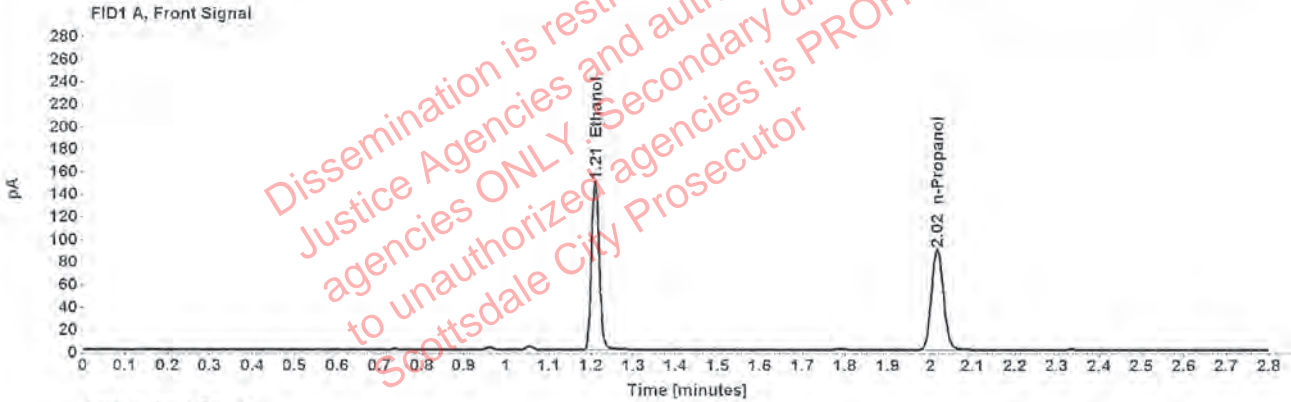


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2985	1.209	191.067
n-Propanol	-----	2.015	178.438

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.993	4.084
Ethanol	1.375	236.236
n-Propanol	2.469	214.784