SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY
BLOOD ALCOHOL FACE SHEET

ANALYSIS DATE 8/3/18 SEQUENCE NAME 03AUG18

EQUIPMENT

Pipettor ☐ Hamilton ML600EH7497 ☒ Hamilton ML600GJ10749
Gas Chromatograph ☒ Agilent US14173023

INSTRUMENT CALIBRATION

Vial 1 0.02 calibrator Lot FN03241604 Coefficient of determination (r^2)
Vial 2 0.10 calibrator Lot FN06181501 0.99999
Vial 3 0.20 calibrator Lot FN07201502
Vial 4 0.40 calibrator Lot FN11191402

CALIBRATION VERIFICATION AND RESOLUTION TEST

Vial	Sample	Expected result	Measured result	Manufacturer/lot
5	Blank	Not detected	Not detected	SPD lab 042518
6	Volatiles mixture	6 compounds	6 compounds	SPD lab 020917WLA
7	Aqueous control	0.400 g/dL	0.406 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 407041529/3
20	Aqueous control	0.080 g/dL	0.081 g/dL	Lipomed 28082014-B
31	Aqueous control	0.150 g/dL	0.152 g/dL	Lipomed 09022015-C
40	Aqueous control	0.400 g/dL	0.404 g/dL	Lipomed 08012015-C
41	Aqueous control	0.040 g/dL	0.040 g/dL	Lipomed 09022015-A
42	Blood control	0.198 g/dL	0.200 g/dL	ACQ 407041529/3
43	Blank	Not detected	Not detected	SPD lab 042518

SUBJECT SAMPLES

Subjects in the sequence 14 Subjects requiring reanalysis 0

ADDITIONAL NOTES: Sequence comment not changed to reflect Raines as analyst. Manually corrected on all chromatograms and sequence summary.

Run valid ☒ Run invalid ☐ — Analyst — B1466 — 8/8/18

Run valid ☑ Run invalid ☐ — Technical Reviewer — WLB1529 8/9/18

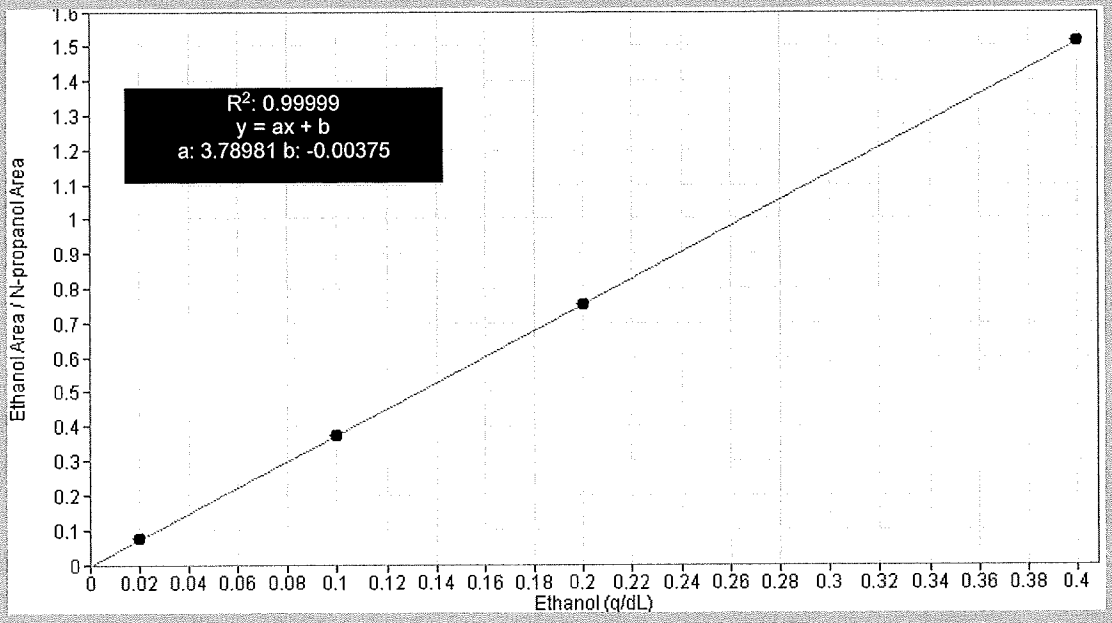
Scottsdale Police Department Crime Laboratory
Sequence Quality Assurance Summary

SEQUENCE NAME: 03AUG18 **ANALYST: Raines**

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 042518	5	negative	negative		-
0.400 Lipomed 08012015-C	7	0.406	0.400	1.50	0.006
0.040 Lipomed 09022015-A	8	0.040	0.040	0.00	0.000
0.198 ACQ 407041529/3	9	0.201	0.198	1.52	0.003
0.080 Lipomed 28082014-B	20	0.081	0.080	1.25	0.001
0.150 Lipomed 09022015-C	31	0.152	0.150	1.33	0.002
0.40 Lipomed 08012015-C	40	0.404	0.400	1.00	0.004
0.04 Lipomed 09022015-A	41	0.040	0.040	0.00	0.000
0.198 ACQ 407041529/3	42	0.200	0.198	1.01	0.002
blank 042518	43	negative	negative	-	-

Calibrator	Ethanol Area	N-propanol Area	Ratio
0.020	12.601	170.670	0.074
0.100	62.103	165.844	0.375
0.200	131.328	174.649	0.752
0.400	260.950	172.426	1.513

Calibration Line



Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.020 Cerilliant FN03241604	**Item number:**	
Injection date:	8/3/2018 11:33:18 AM	**Vial:**	1
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\1.D		

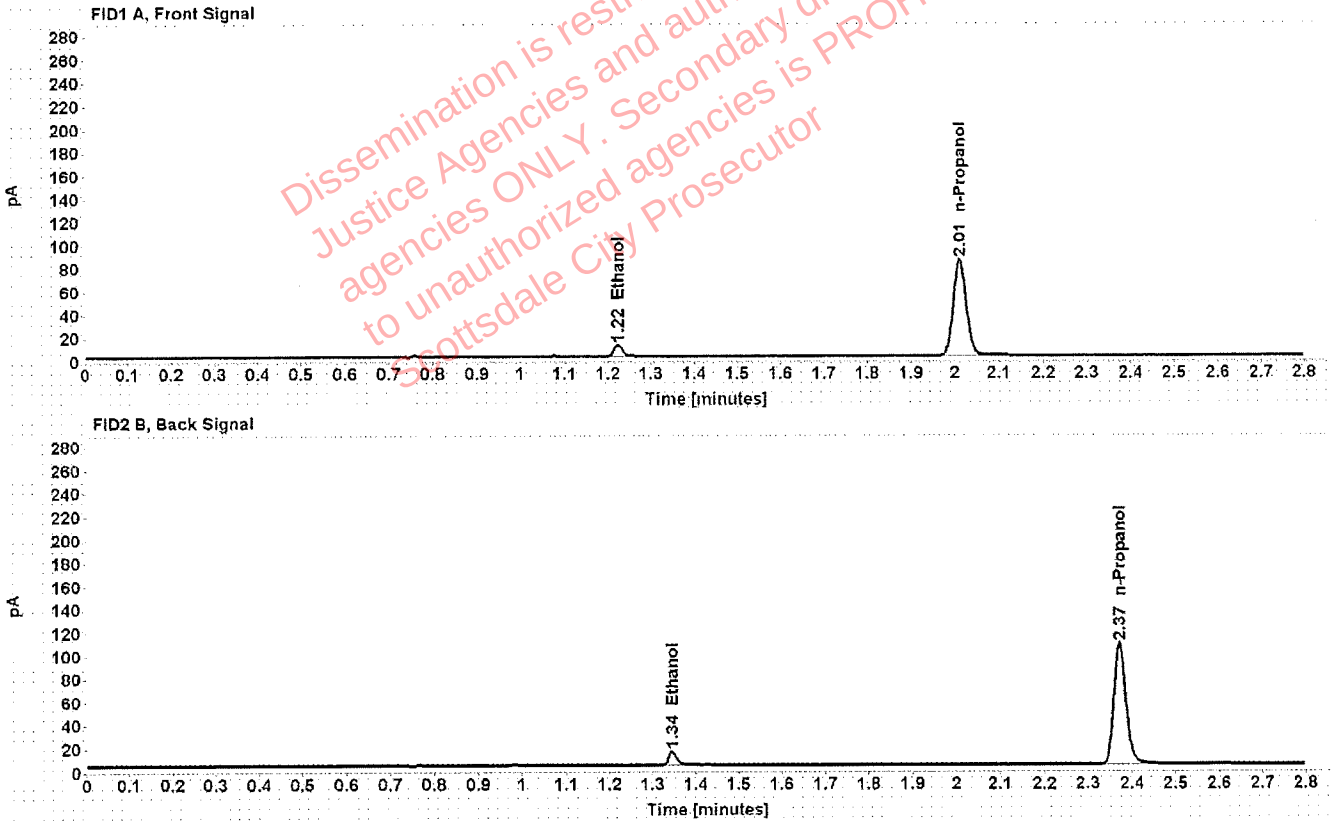


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.223	12.601
n-Propanol	2.010	170.670

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

Compound	Time (min)	Peak Area
Ethanol	1.344	14.590
n-Propanol	2.372	200.271

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.100 Cerilliant FN06181501	**Item number:**	
Injection date:	8/3/2018 11:37:19 AM	**Vial:**	2
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\2.D		8/7/18

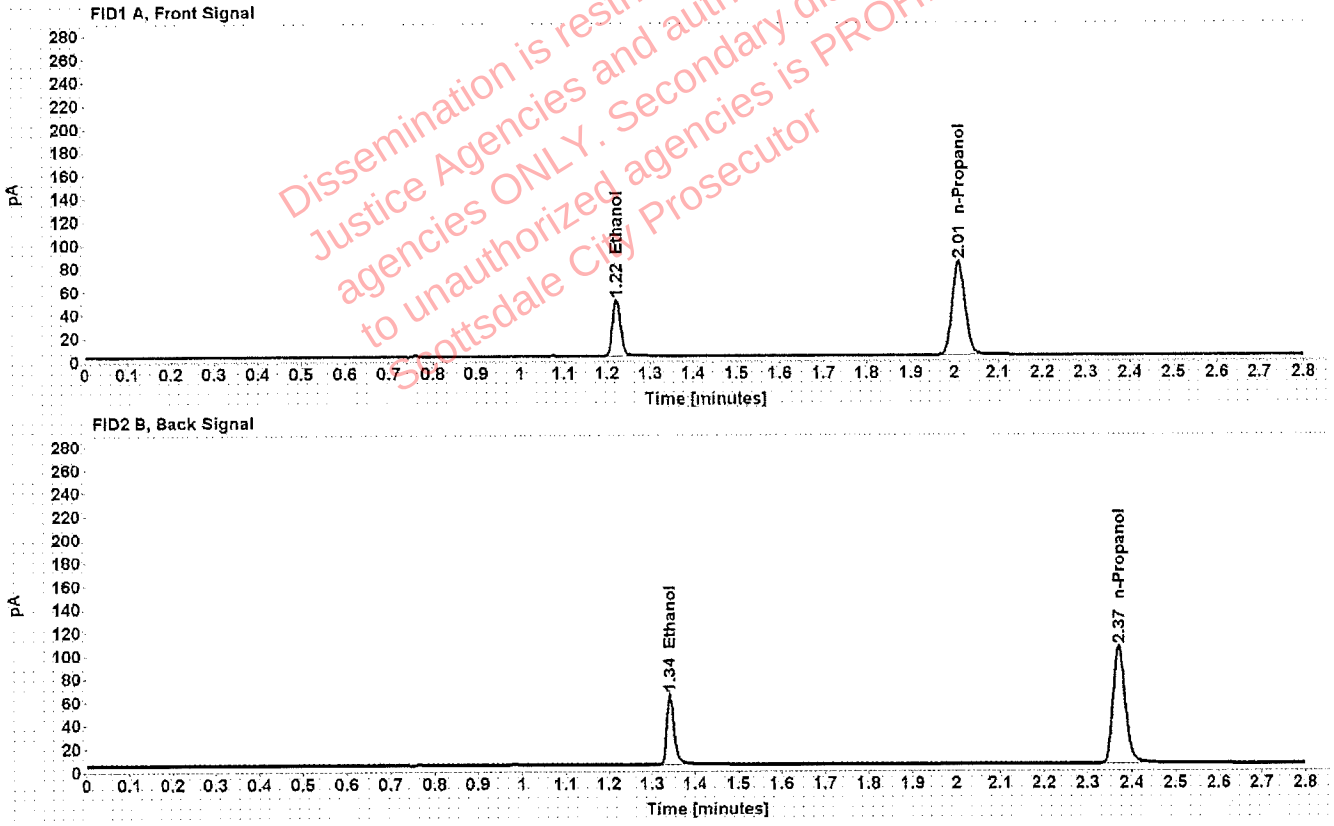


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.222	62.103
n-Propanol	2.010	165.844

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

Compound	Time (min)	Peak Area
Ethanol	1.342	73.034
n-Propanol	2.371	194.437

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.200 Cerilliant FN07201502	**Item number:**	
Injection date:	8/3/2018 11:41:19 AM	**Vial:**	3
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Tue 8/7/18 Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\3.D		

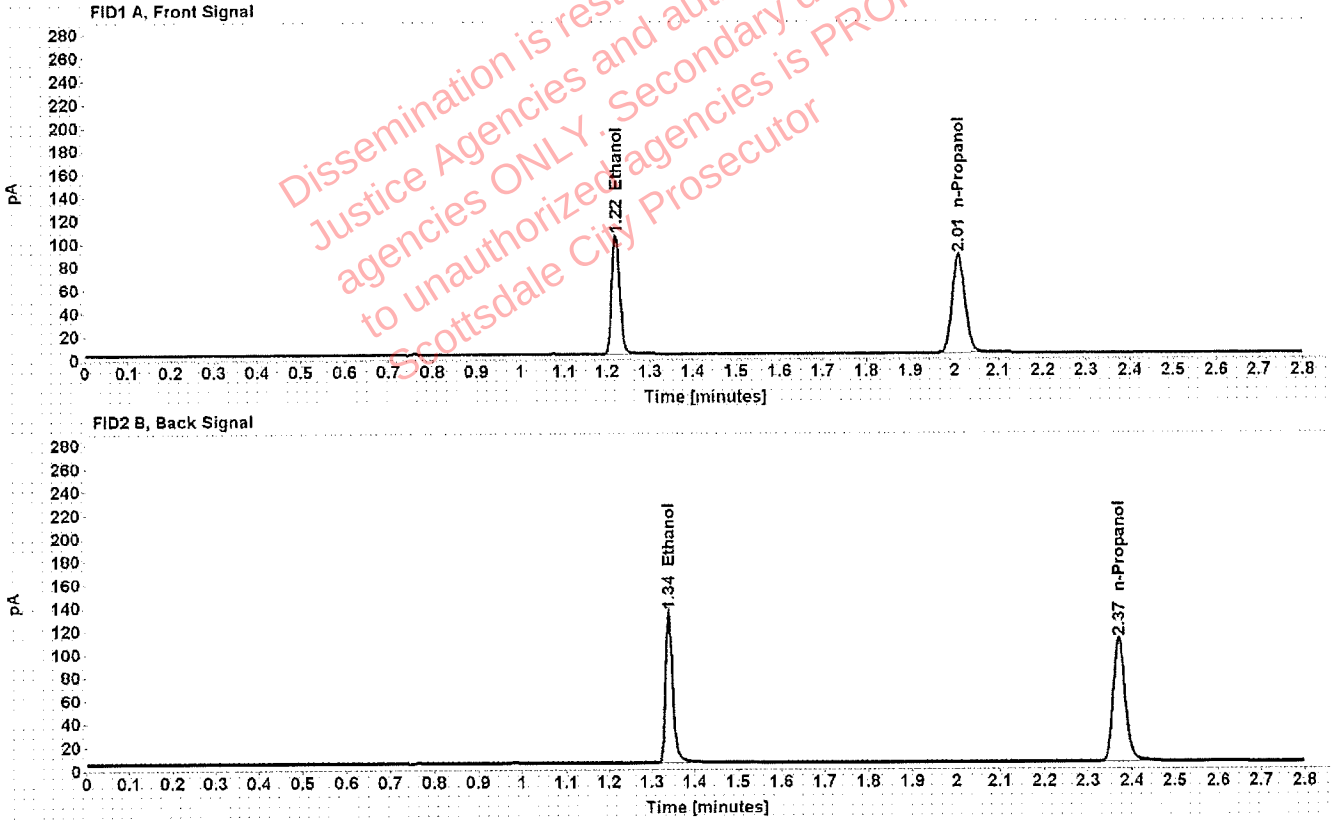


Table 1: FID 1 A (column DB-ALC1)

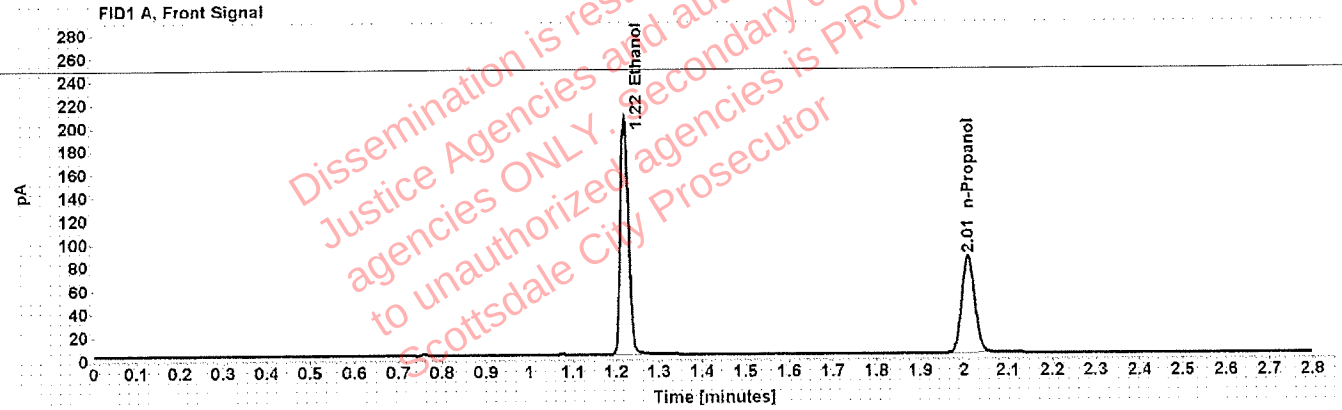
Compound	Time (min)	Peak Area
Ethanol	1.221	131.328
n-Propanol	2.010	174.649

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

Compound	Time (min)	Peak Area
Ethanol	1.340	157.156
n-Propanol	2.371	205.068

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.400 Cerilliant FN11191402	**Item number:**	
Injection date:	8/3/2018 11:45:19 AM	**Vial:**	4
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\4.D		Live 8-7-18



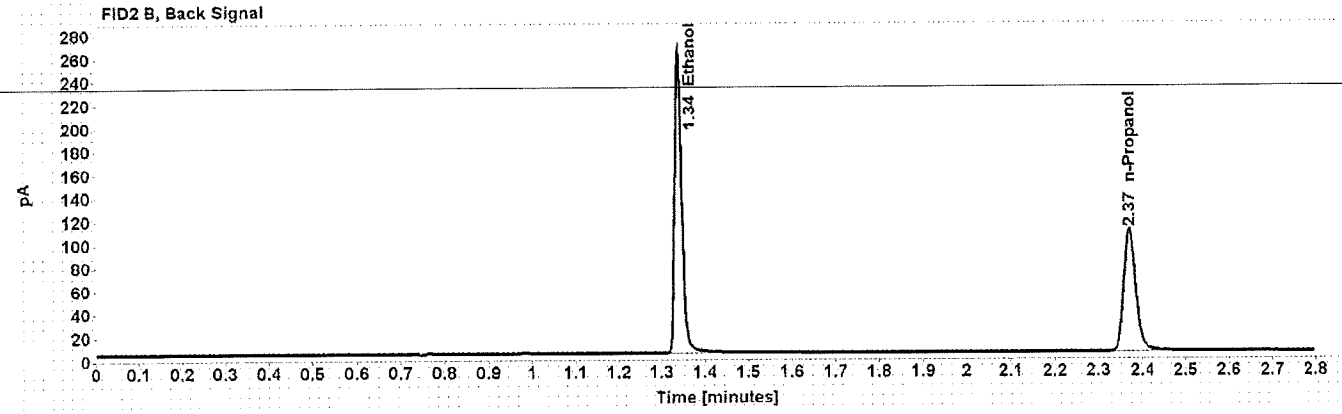


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.220	260.950
n-Propanol	2.010	172.426

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

Compound	Time (min)	Peak Area
Ethanol	1.339	313.610
n-Propanol	2.371	202.798

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	blank 042518	**Item number:**	
Injection date:	8/3/2018 11:49:18 AM	**Vial:**	5
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\5.D		um 8/7/18

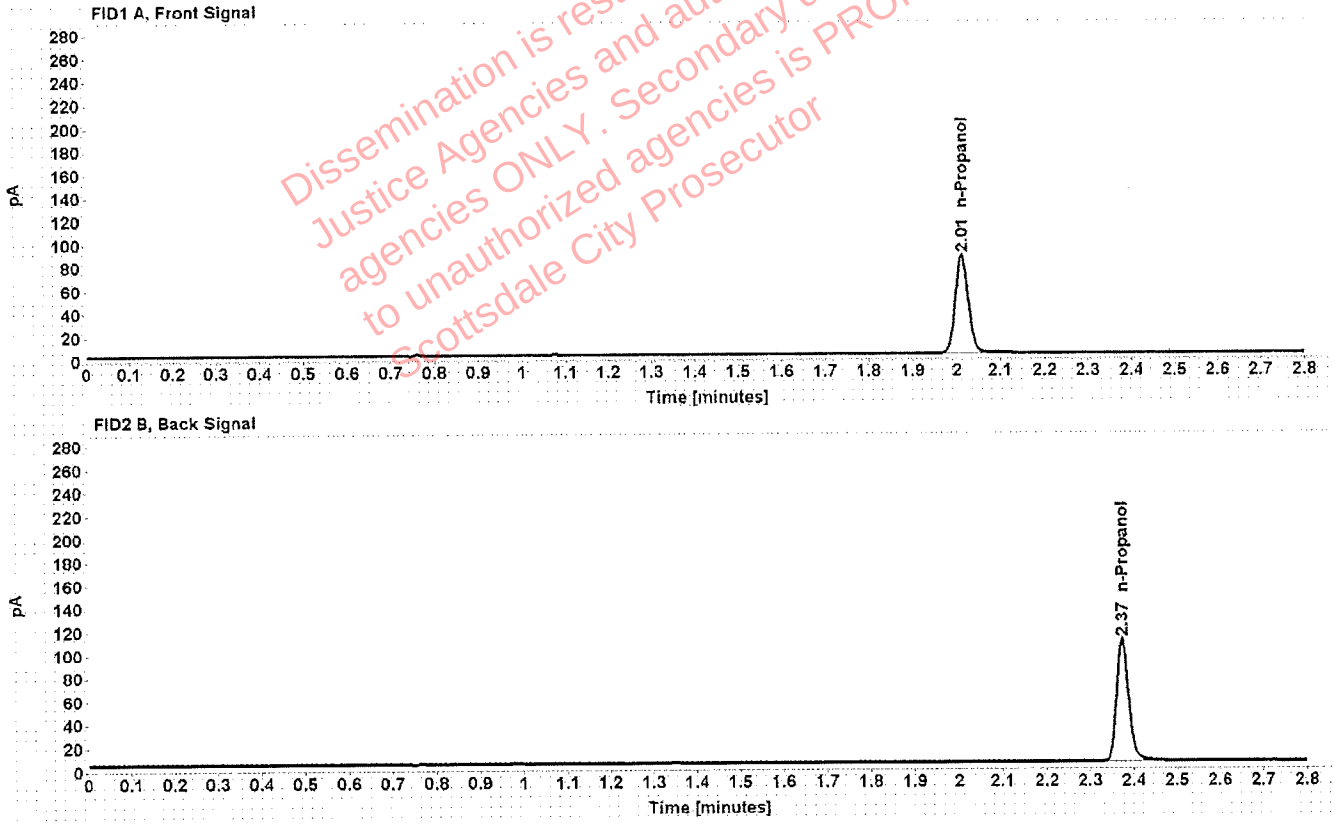


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	------	2.012	173.740

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

Compound	Time (min)	Peak Area
n-Propanol	2.373	203.082

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	volatiles mix 020917 WLA	**Item number:**	
Injection date:	8/3/2018 11:53:18 AM	**Vial:**	6
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\6.D		

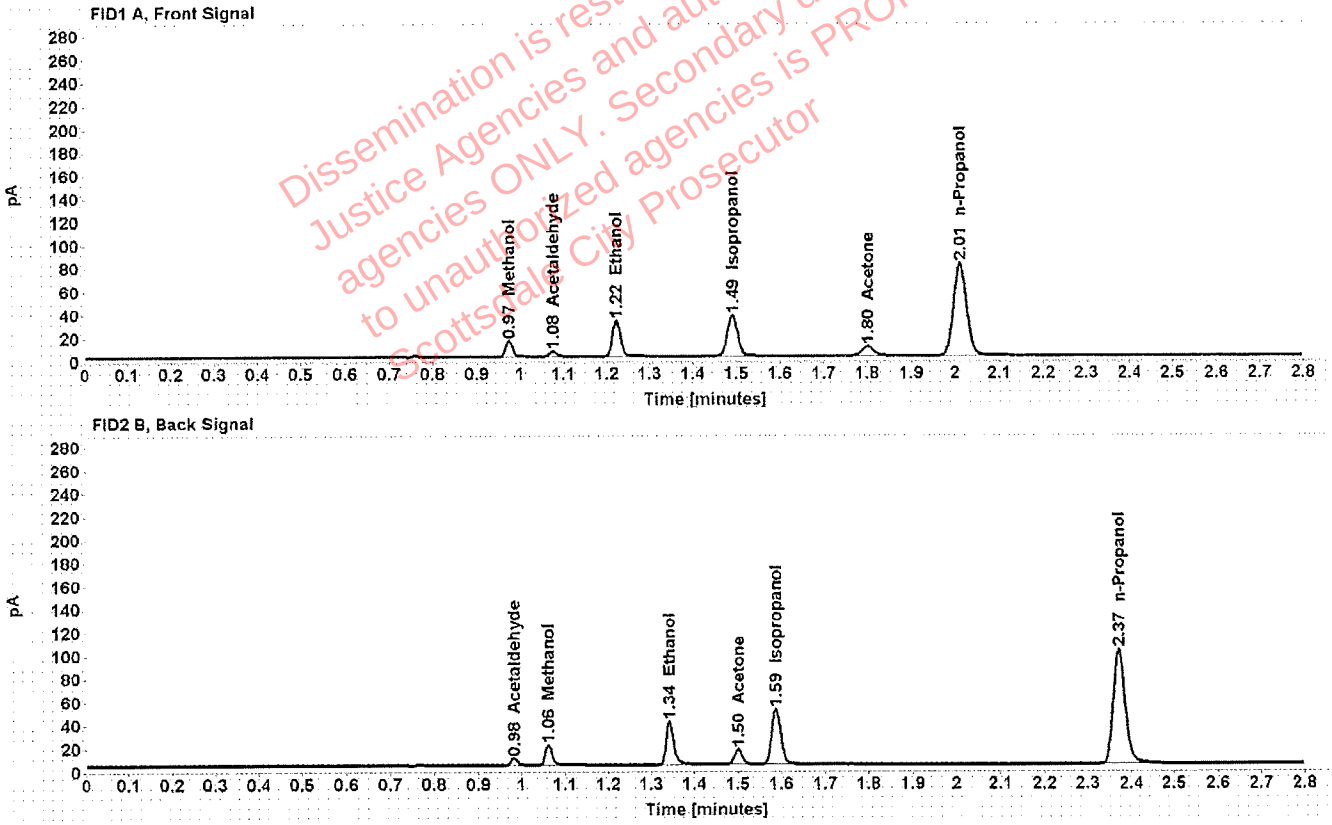


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol	------	0.974	15.320
Acetaldehyde	------	1.076	4.457
>Ethanol	0.0650	1.222	39.633
Isopropanol	------	1.491	57.490
Acetone	------	1.801	14.124
n-Propanol	------	2.011	163.439

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.982	5.641
Methanol	1.062	18.354
Ethanol	1.342	46.390
Acetone	1.500	16.221
Isopropanol	1.588	68.848
n-Propanol	2.372	191.130

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.400 Lipomed 08012015-C	**Item number:**	
Injection date:	8/3/2018 11:57:34 AM	**Vial:**	7
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\7.D		Tue 8/7/18

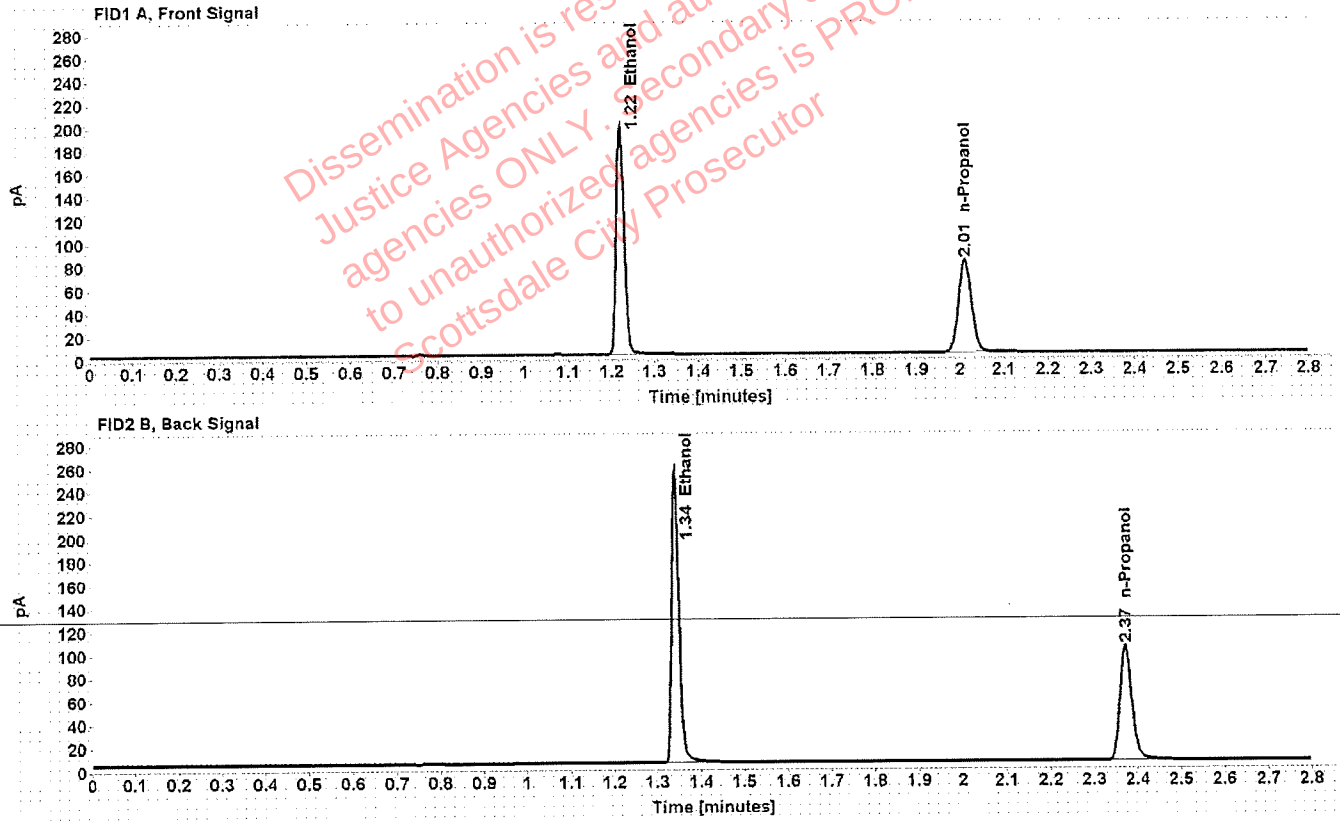


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4062	1.221	251.020
n-Propanol	------	2.011	163.457

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

Compound	Time (min)	Peak Area
Ethanol	1.341	301.134
n-Propanol	2.373	191.445

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.040 Lipomed 09022015-A	**Item number:**	
Injection date:	8/3/2018 12:01:33 PM	**Vial:**	8
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\8.D		8/1/18

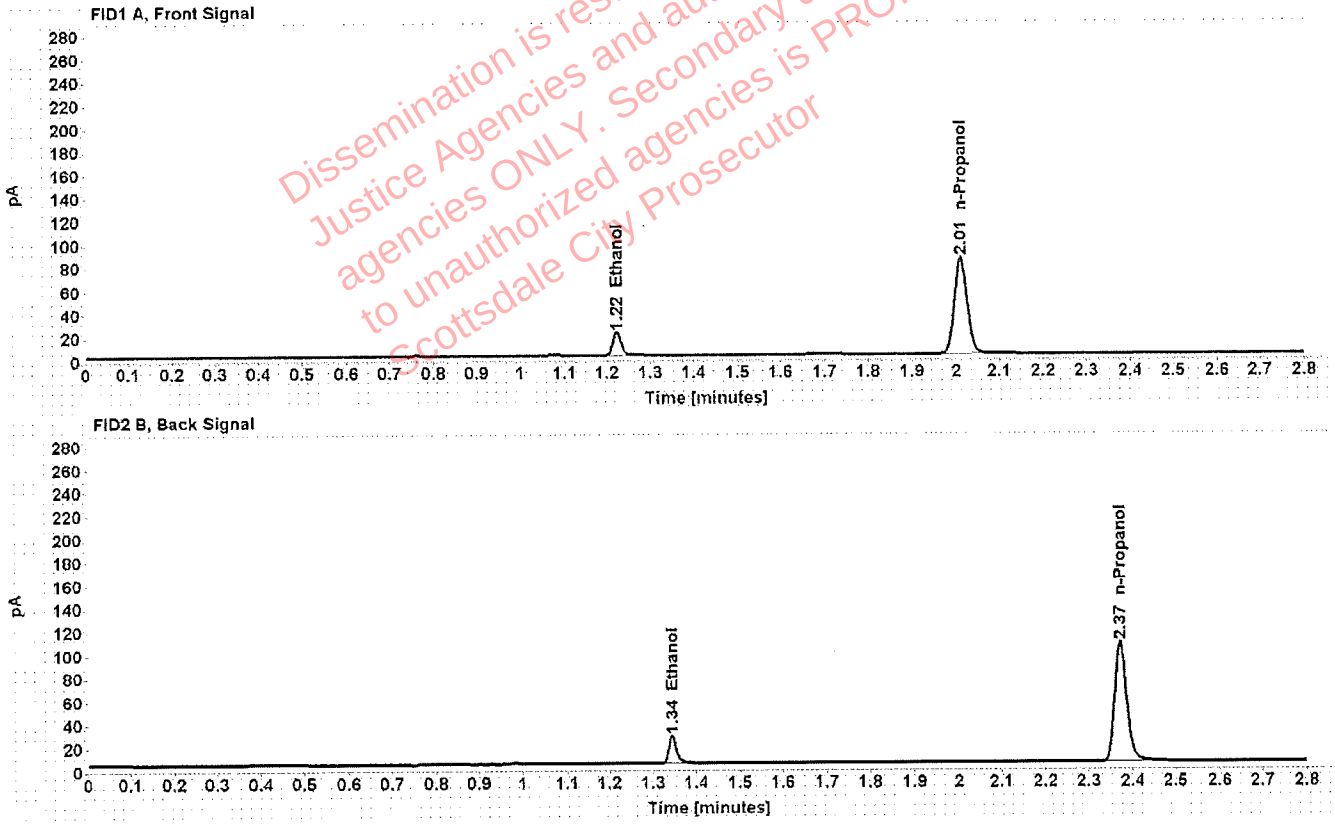


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0403	1.223	25.256
n-Propanol	------	2.011	169.346

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

Compound	Time (min)	Peak Area
Ethanol	1.344	29.341
n-Propanol	2.373	198.127

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.198 ACQ 407041529/3	**Item number:**	
Injection date:	8/3/2018 12:05:34 PM	**Vial:**	9
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\9.D		8/7/18

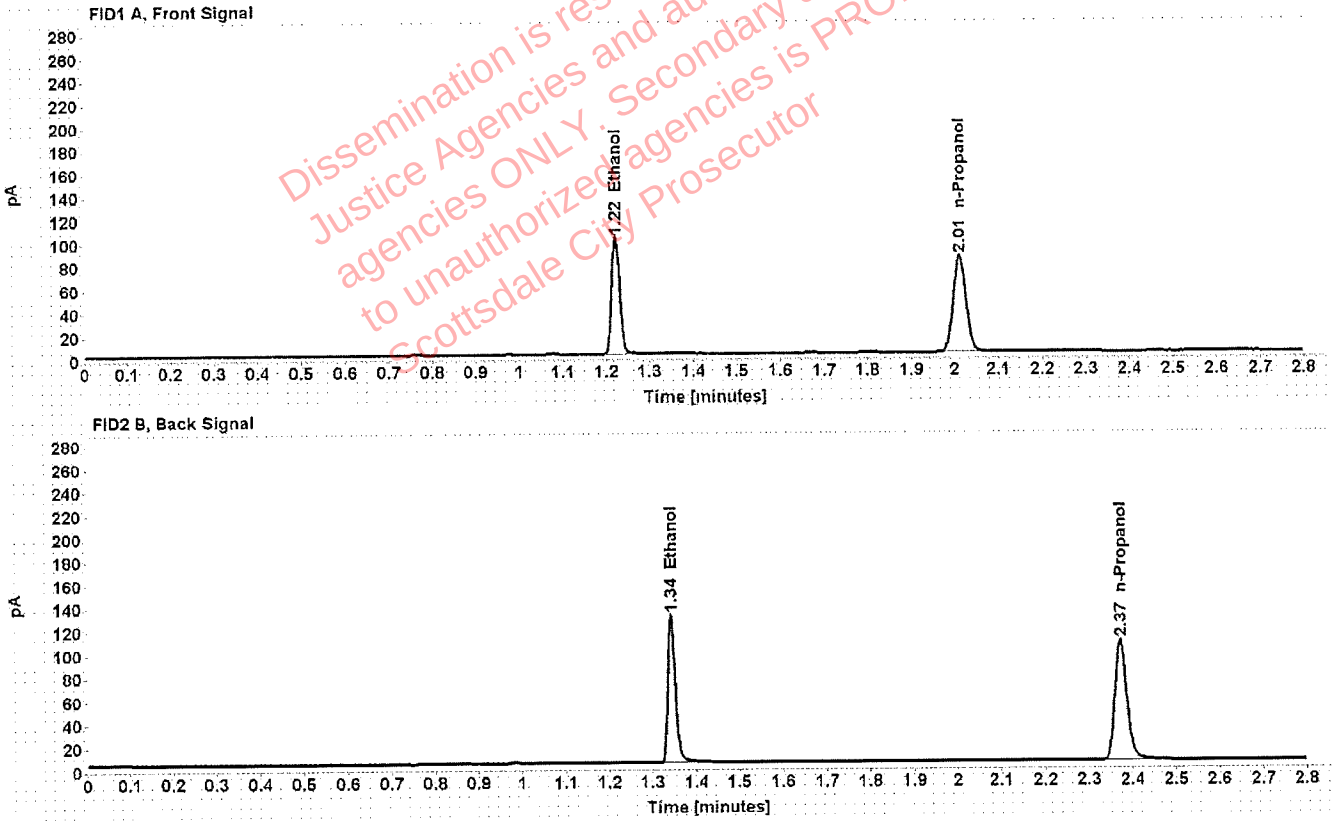


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2011	1.222	129.398
n-Propanol	------	2.011	170.612

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

Compound	Time (min)	Peak Area
Ethanol	1.342	154.439
n-Propanol	2.373	200.143

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.080 Lipomed 28082014-B	**Item number:**	
Injection date:	8/3/2018 12:50:04 PM	**Vial:**	20
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\20.D		8/7/18

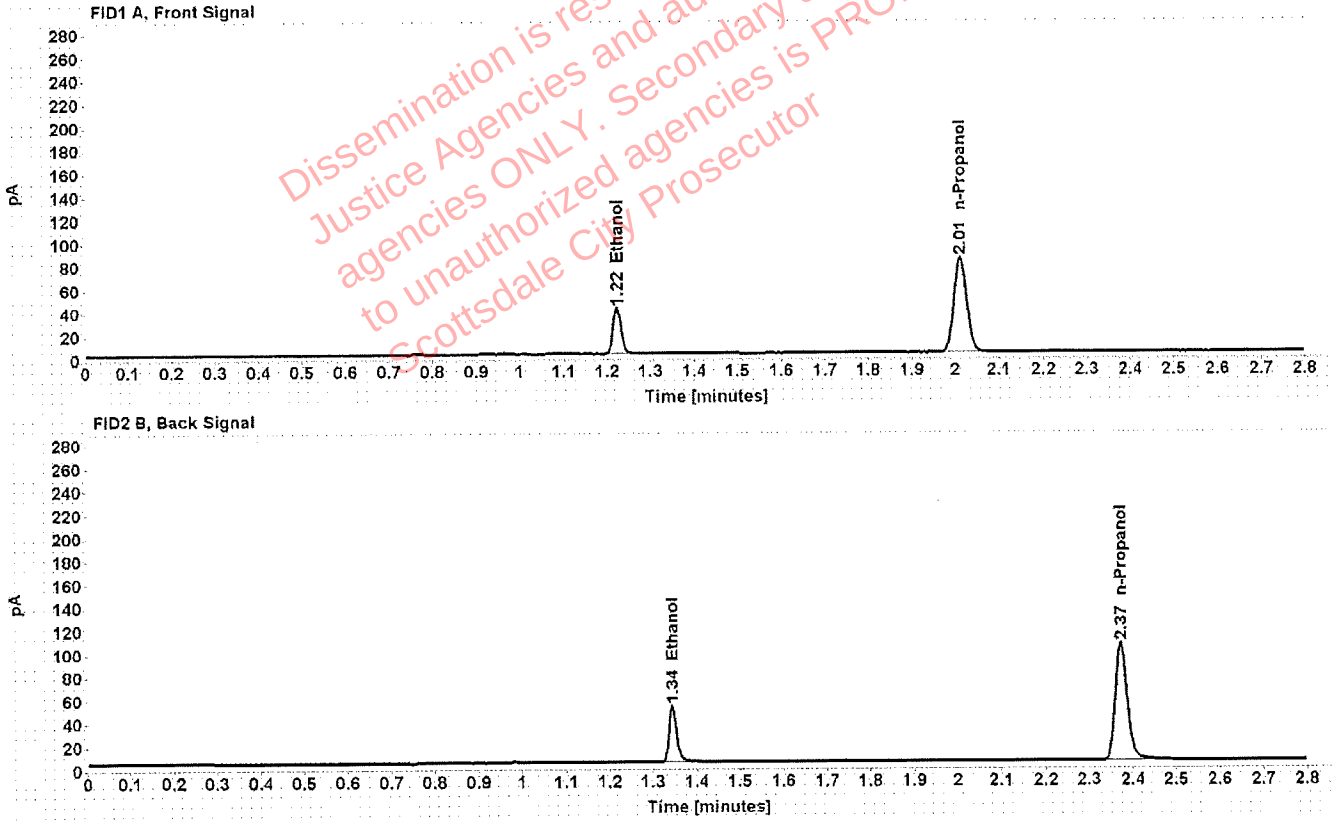


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0813	1.223	51.041
n-Propanol	------	2.011	167.626

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

Compound	Time (min)	Peak Area
Ethanol	1.343	59.772
n-Propanol	2.373	196.542

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.150 Lipomed 09022015-C	**Item number:**	
Injection date:	8/3/2018 1:34:34 PM	**Vial:**	31
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\31.D		8/7/18

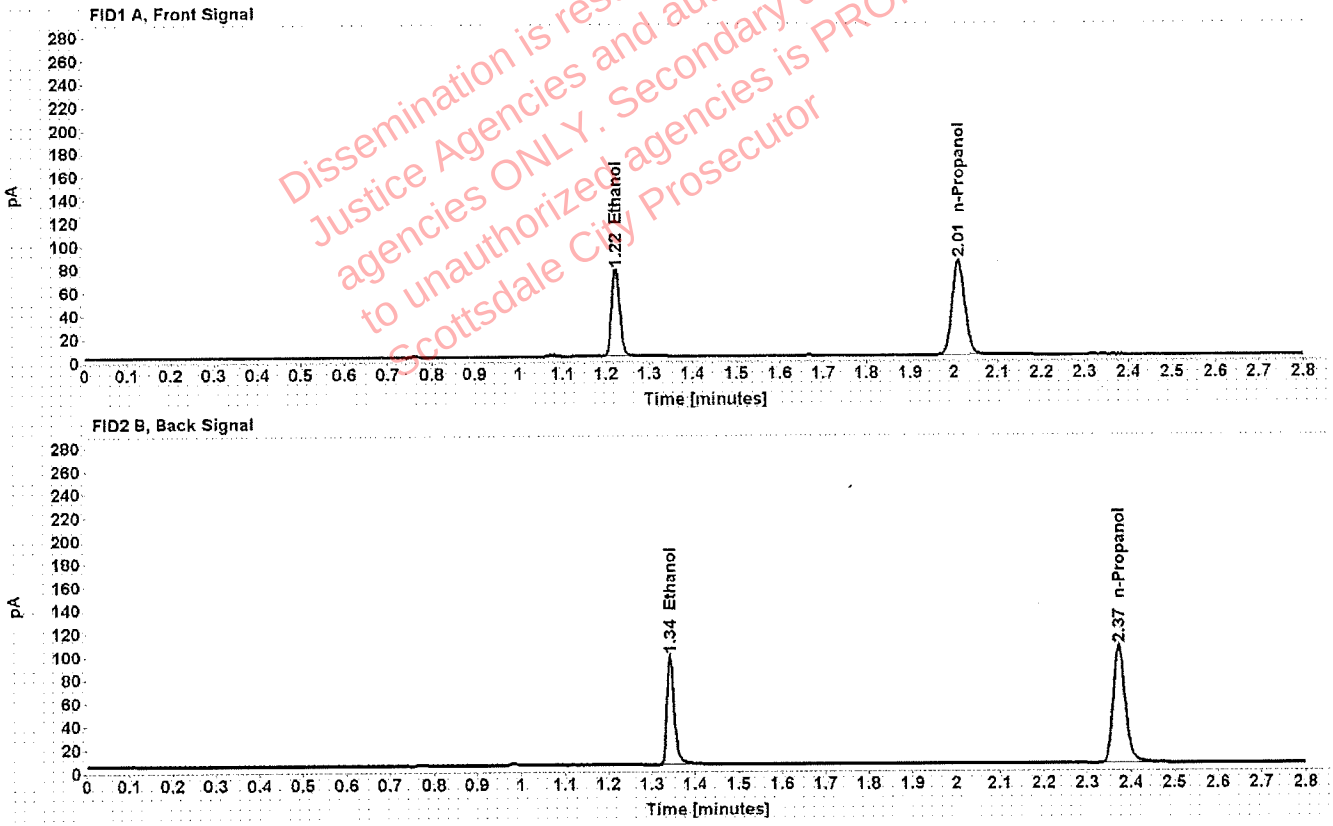


Table 1: FID 1 A (column DB-ALC1)

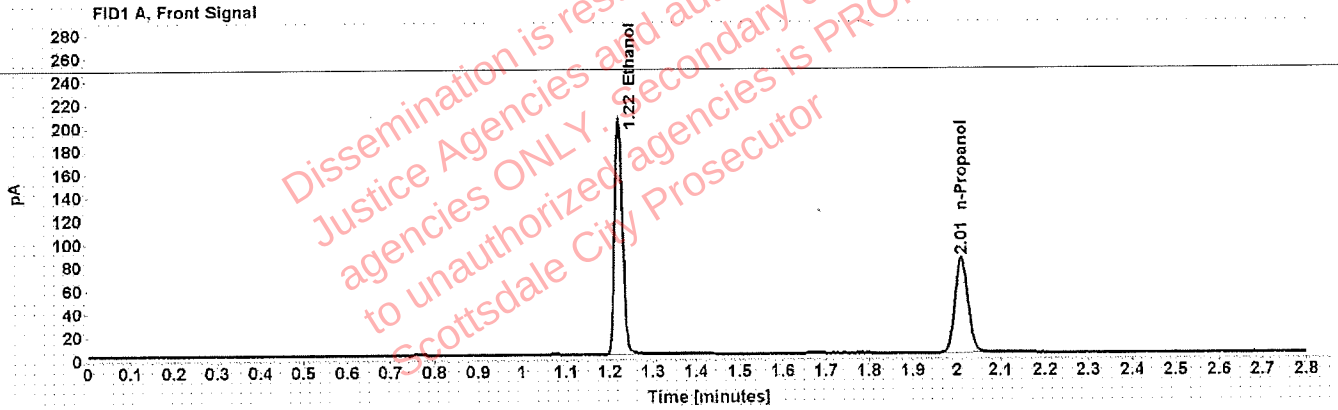
Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1529	1.222	96.499
n-Propanol	------	2.011	167.566

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

Compound	Time (min)	Peak Area
Ethanol	1.343	114.941
n-Propanol	2.373	196.554

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.40 Lipomed 08012015-C	**Item number:**	
Injection date:	8/3/2018 2:10:48 PM	**Vial:**	40
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\40.D		8/7/18



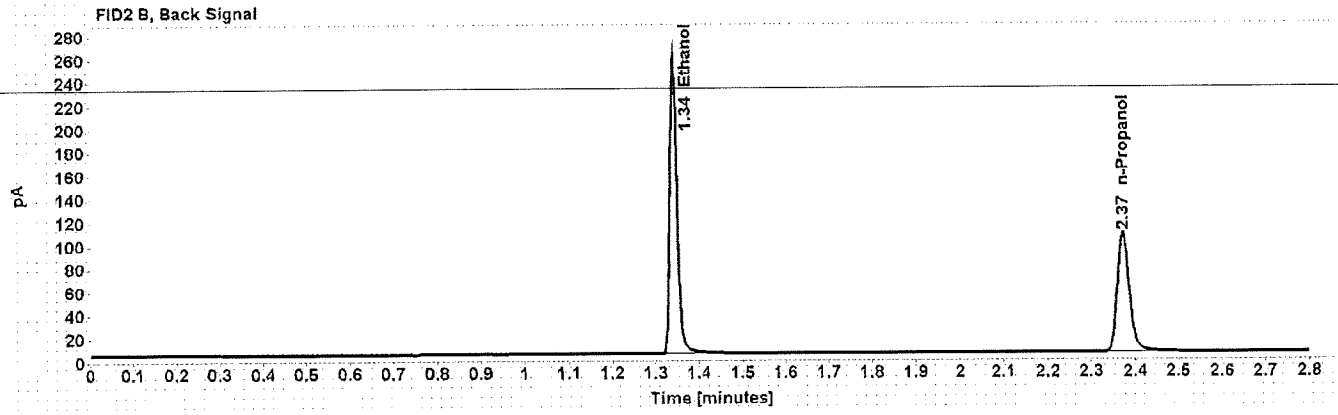


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4044	1.221	257.459
n-Propanol	------	2.011	168.411

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

Compound	Time (min)	Peak Area
Ethanol	1.342	309.884
n-Propanol	2.373	198.460

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.04 Lipomed 09022015-A	**Item number:**	
Injection date:	8/3/2018 2:14:48 PM	**Vial:**	41
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\41.D		8/7/18

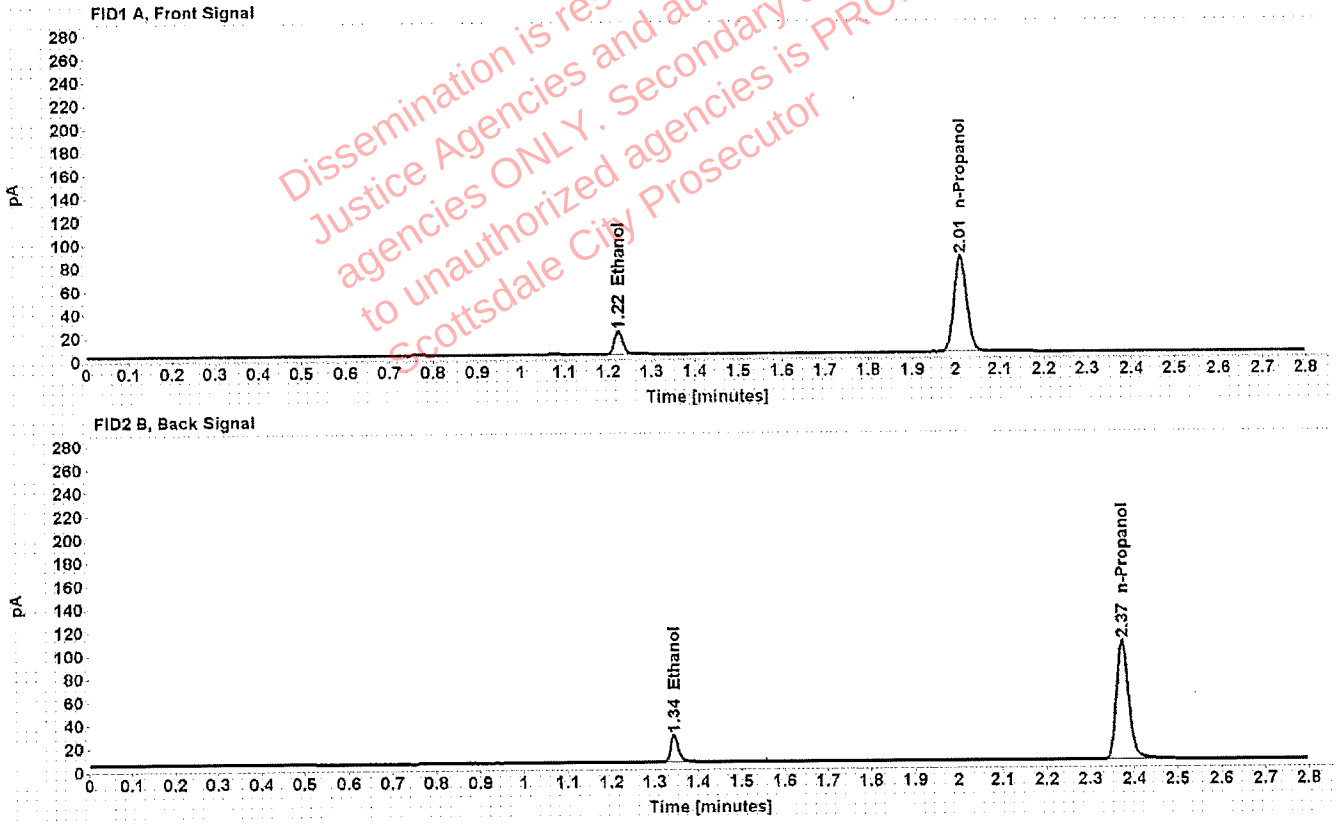


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0403	1.223	25.228
n-Propanol	------	2.011	169.212

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

Compound	Time (min)	Peak Area
Ethanol	1.345	29.384
n-Propanol	2.373	198.783

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	0.198 ACQ 407041529/3	**Item number:**	
Injection date:	8/3/2018 2:18:49 PM	**Vial:**	42
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\42.D		8/7/18

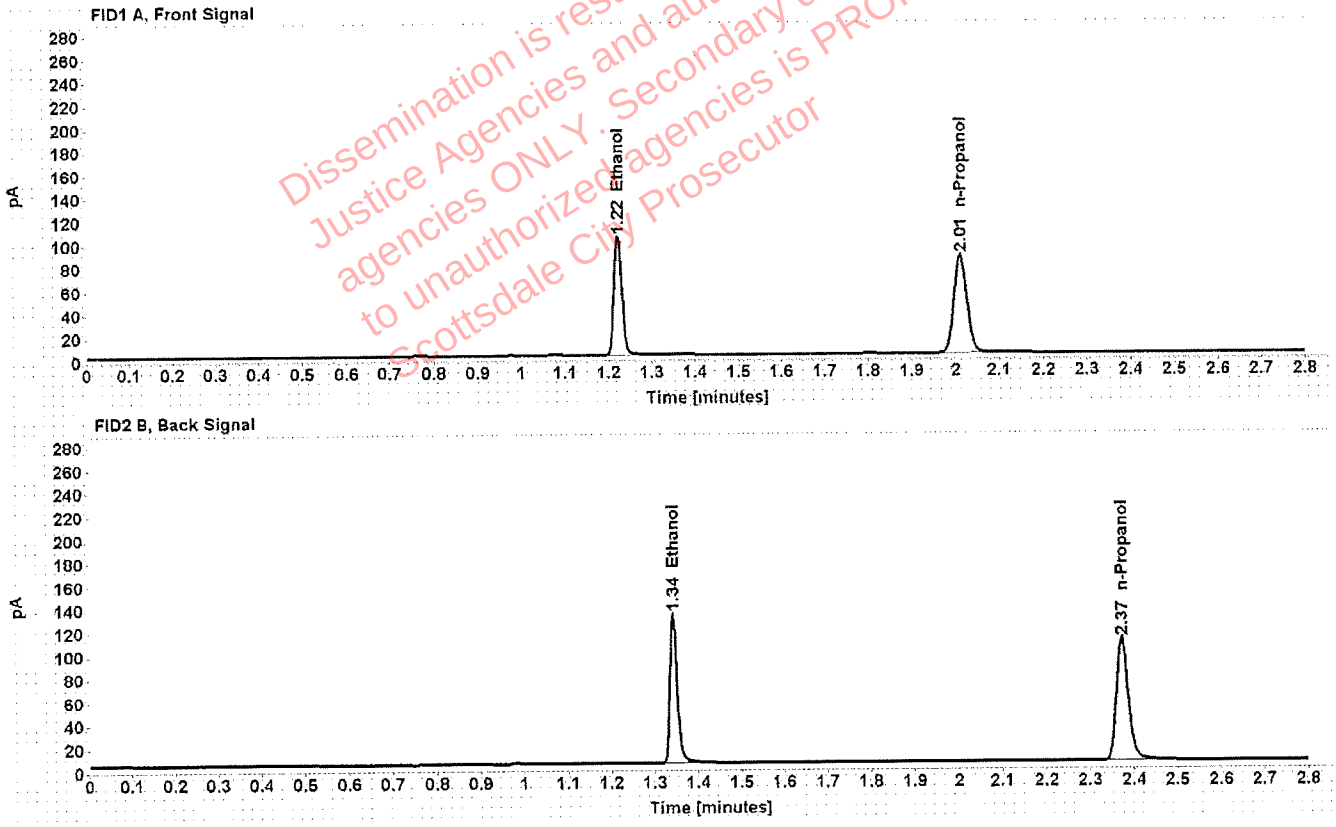


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2009	1.222	131.393
n-Propanol	------	2.011	173.462

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

Compound	Time (min)	Peak Area
Ethanol	1.343	157.067
n-Propanol	2.373	204.012

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	blank 042518	**Item number:**	
Injection date:	8/3/2018 2:23:04 PM	**Vial:**	43
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\43.D		8/7/18

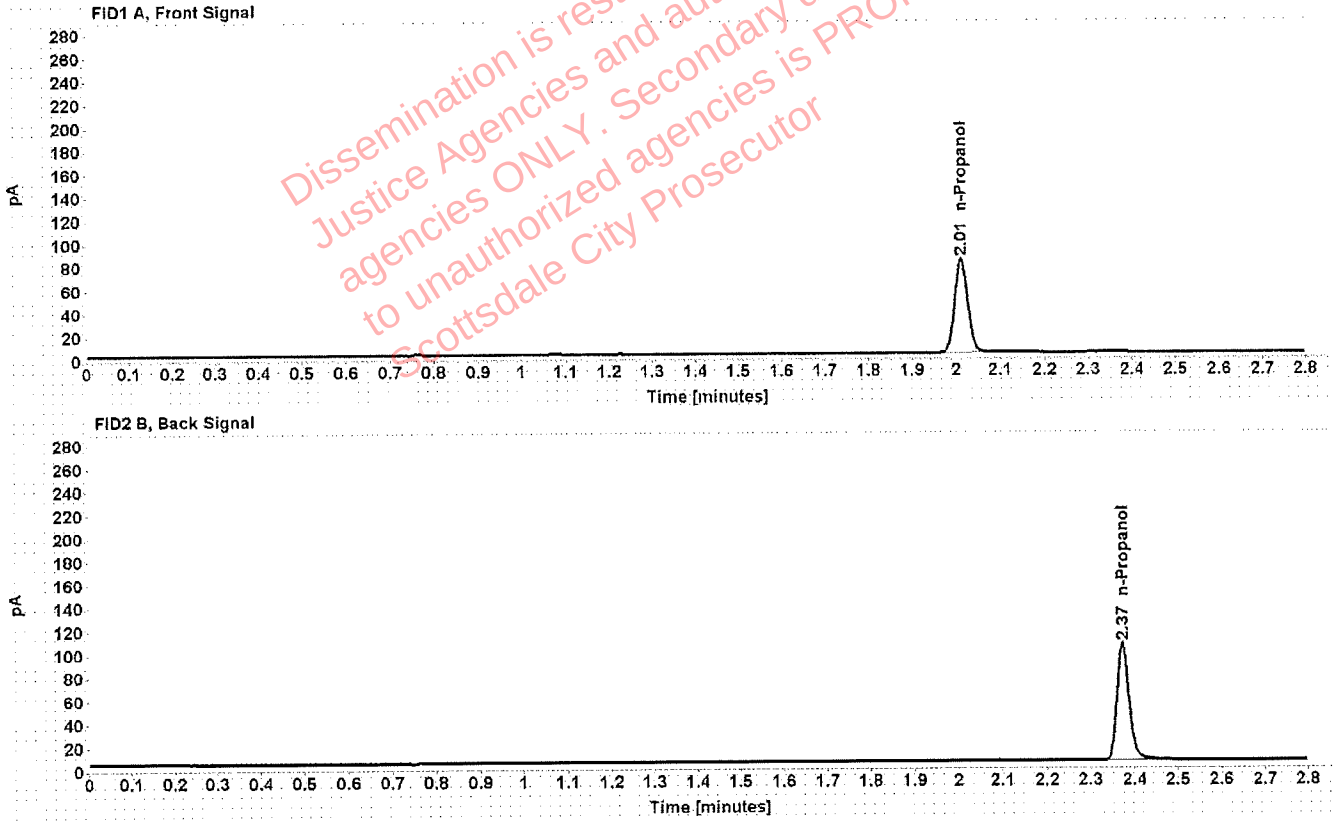


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	------	2.011	165.776

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

Compound	Time (min)	Peak Area
n-Propanol	2.373	194.742

Sequence Summary

8/2/18

Sequence name: 03AUG18 **Instrument:** US14173023 CN14160045 **Analyst:** ~~Adrian~~ Raines

Vial	Sample	Type	Item Number	Method
1	0.020 Cerilliant FN03241604	Calibration		ethanol quant.M
2	0.100 Cerilliant FN06181501	Calibration		ethanol quant.M
3	0.200 Cerilliant FN07201502	Calibration		ethanol quant.M
4	0.400 Cerilliant FN11191402	Calibration		ethanol quant.M
5	blank 042518	Control		ethanol quant.M
6	volatiles mix 020917 WLA	Control		ethanol quant.M
7	0.400 Lipomed 08012015-C	Control		ethanol quant.M
8	0.040 Lipomed 09022015-A	Control		ethanol quant.M
9	0.198 ACQ 407041529/3	Control		ethanol quant.M
10	[redacted]	Sample	1204955	ethanol quant.M
11		Sample	1204955	ethanol quant.M
12		Sample	1202869	ethanol quant.M
13		Sample	1202869	ethanol quant.M
14		Sample	1226403	ethanol quant.M
15		Sample	1226403	ethanol quant.M
16		Sample	1223466	ethanol quant.M
17		Sample	1223466	ethanol quant.M
18		Sample	1227531	ethanol quant.M
19		Sample	1227531	ethanol quant.M
20	0.080 Lipomed 28082014-B	Control		ethanol quant.M
21	[redacted]	Sample	1222774	ethanol quant.M
22		Sample	1222774	ethanol quant.M
23		Sample	1223446	ethanol quant.M
24		Sample	1223446	ethanol quant.M
25		Sample	331-05A	ethanol quant.M
26		Sample	331-05A	ethanol quant.M
27		Sample	331-01A	ethanol quant.M
28		Sample	331-01A	ethanol quant.M
29		Sample	1226740	ethanol quant.M
30		Sample	1226740	ethanol quant.M
31	0.150 Lipomed 09022015-C	Control		ethanol quant.M
32	[redacted]	Sample	1227289	ethanol quant.M
33		Sample	1227289	ethanol quant.M
34		Sample	1227687	ethanol quant.M
35		Sample	1227687	ethanol quant.M
36		Sample	1221020	ethanol quant.M
37		Sample	1221020	ethanol quant.M
38		Sample	1227863	ethanol quant.M
39		Sample	1227863	ethanol quant.M
40	0.40 Lipomed 08012015-C	Control		ethanol quant.M
41	0.04 Lipomed 09022015-A	Control		ethanol quant.M
42	0.198 ACQ 407041529/3	Control		ethanol quant.M
43	blank 042518	Control		ethanol quant.M

Scottsdale Police Department Crime Laboratory
Summary of Cases

SEQUENCE NAME: 03AUG18 **ANALYST: Raines**

Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*
10 11	0.1569	0.1546	0.15575	0.74	0.00115
12 13	0.1517	0.1541	0.15290	0.78	0.00120
14 15	0.1570	0.1575	0.15725	0.16	0.00025
16 17	0.1381	0.1340	0.13605	1.51	0.00205
18 19	0.5037	0.4981	0.50090	0.56	0.00280
21 22	0.2236	0.2214	0.22250	0.49	0.00110
23 24	0.1677	0.1691	0.16840	0.42	0.00070
25 26	0.1879	0.1860	0.18695	0.51	0.00095
27 28	0.1232	0.1197	0.12145	1.44	0.00175
29 30	0.2238	0.2274	0.22560	0.80	0.00180
32 33	0.1186	0.1191	0.11885	0.21	0.00025
34 35	0.1905	0.1873	0.18890	0.85	0.00160
36 37	0.0000	0.0000	0.00000	0.00	0.00000
38 39	0.1405	0.1405	0.14050	0.00	0.00000

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

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1204955
Injection date:	8/3/2018 12:09:34 PM	**Vial:**	10
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\10.D		8/2/18

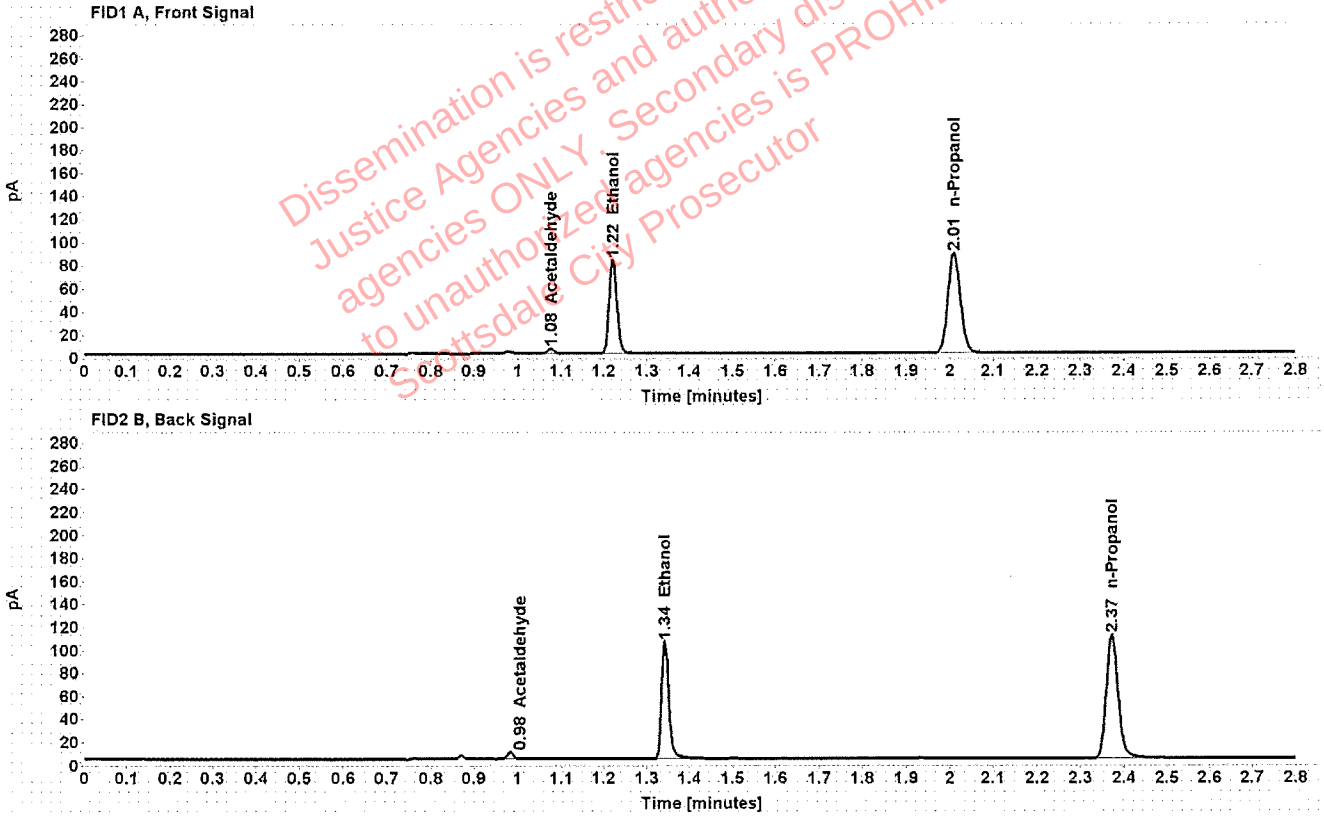


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.076	4.479
>Ethanol	0.1569	1.222	104.222
n-Propanol	------	2.011	176.436

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	5.656
Ethanol	1.342	122.858
n-Propanol	2.372	207.773

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1204955
Injection date:	8/3/2018 12:13:33 PM	**Vial:**	11
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\11.D		MR 8/7/18

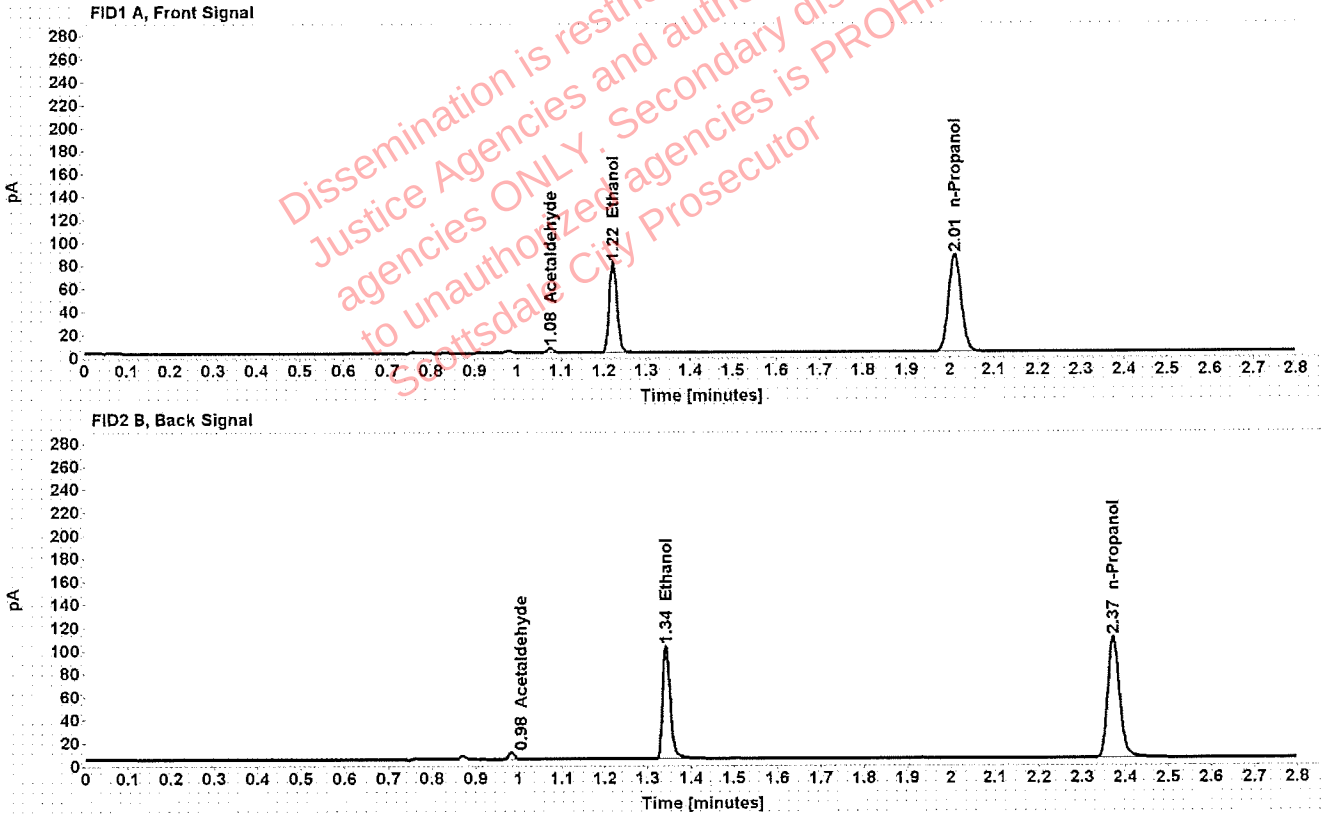


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.076	4.499
>Ethanol	0.1546	1.222	100.701
n-Propanol	------	2.011	172.960

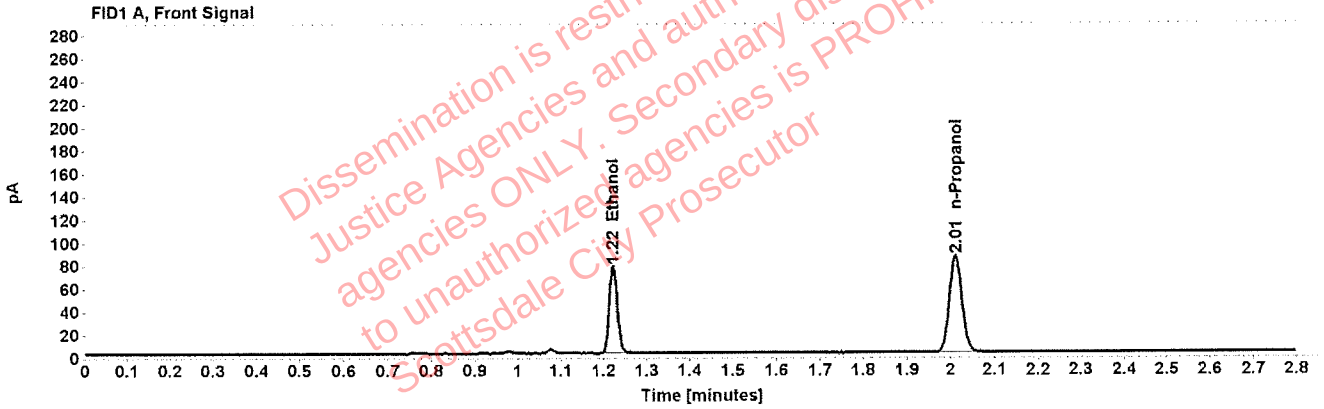
Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	5.674
Ethanol	1.342	118.767
n-Propanol	2.373	203.457

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1202869
Injection date:	8/3/2018 12:17:34 PM	**Vial:**	12
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\12.D		8/7/18



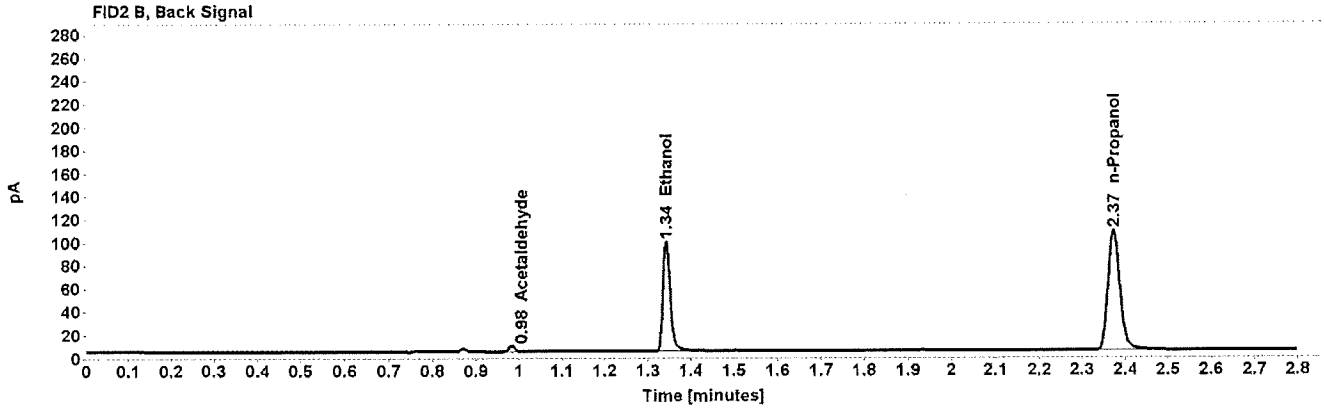


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1517	1.222	97.931
n-Propanol	------	2.011	171.411

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	4.668
Ethanol	1.343	115.553
n-Propanol	2.373	201.746

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1202869
Injection date:	8/3/2018 12:21:48 PM	**Vial:**	13
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\13.D		mr 8/7/18

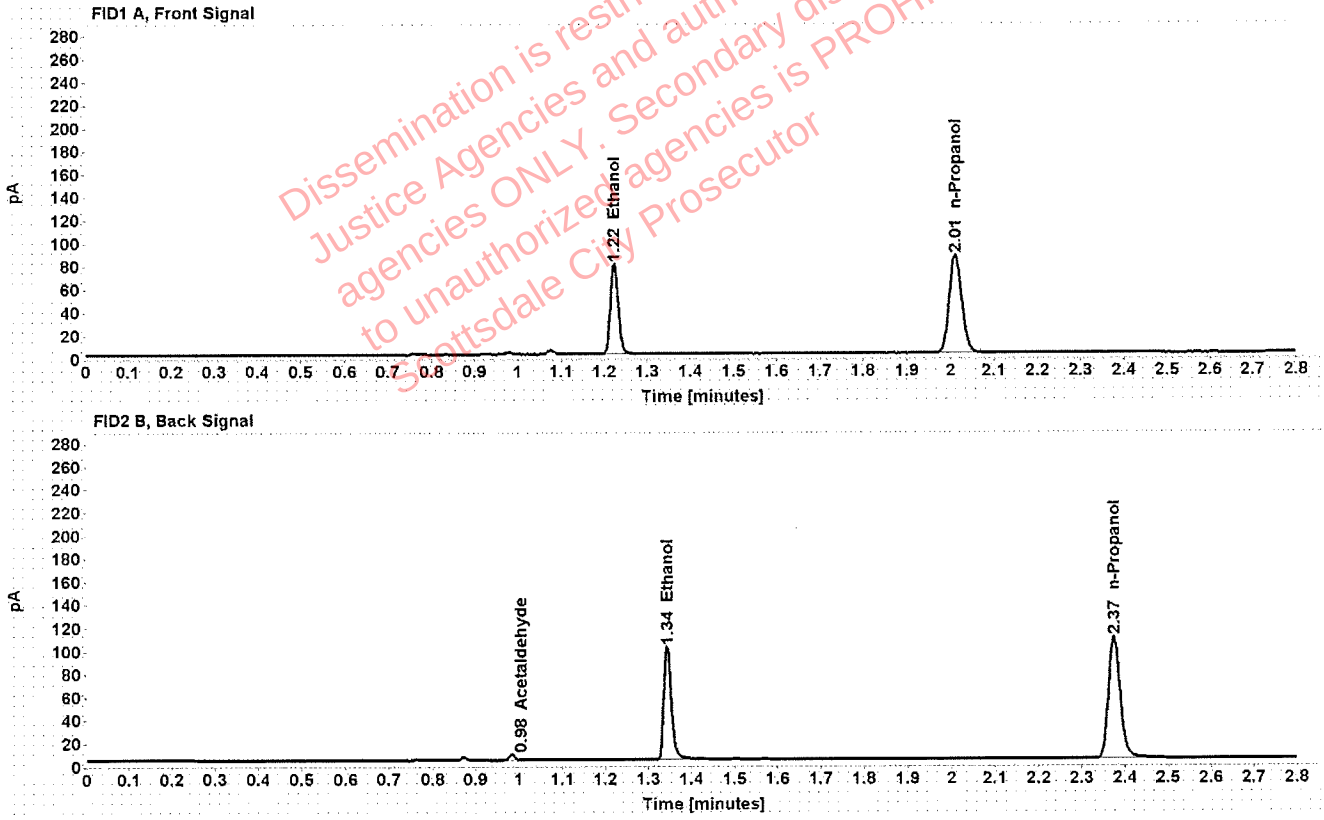


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1541	1.223	100.493
n-Propanol	------	2.012	173.199

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.984	4.554
Ethanol	1.344	118.604
n-Propanol	2.374	203.585

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1226403
Injection date:	8/3/2018 12:25:48 PM	**Vial:**	14
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\14.D		

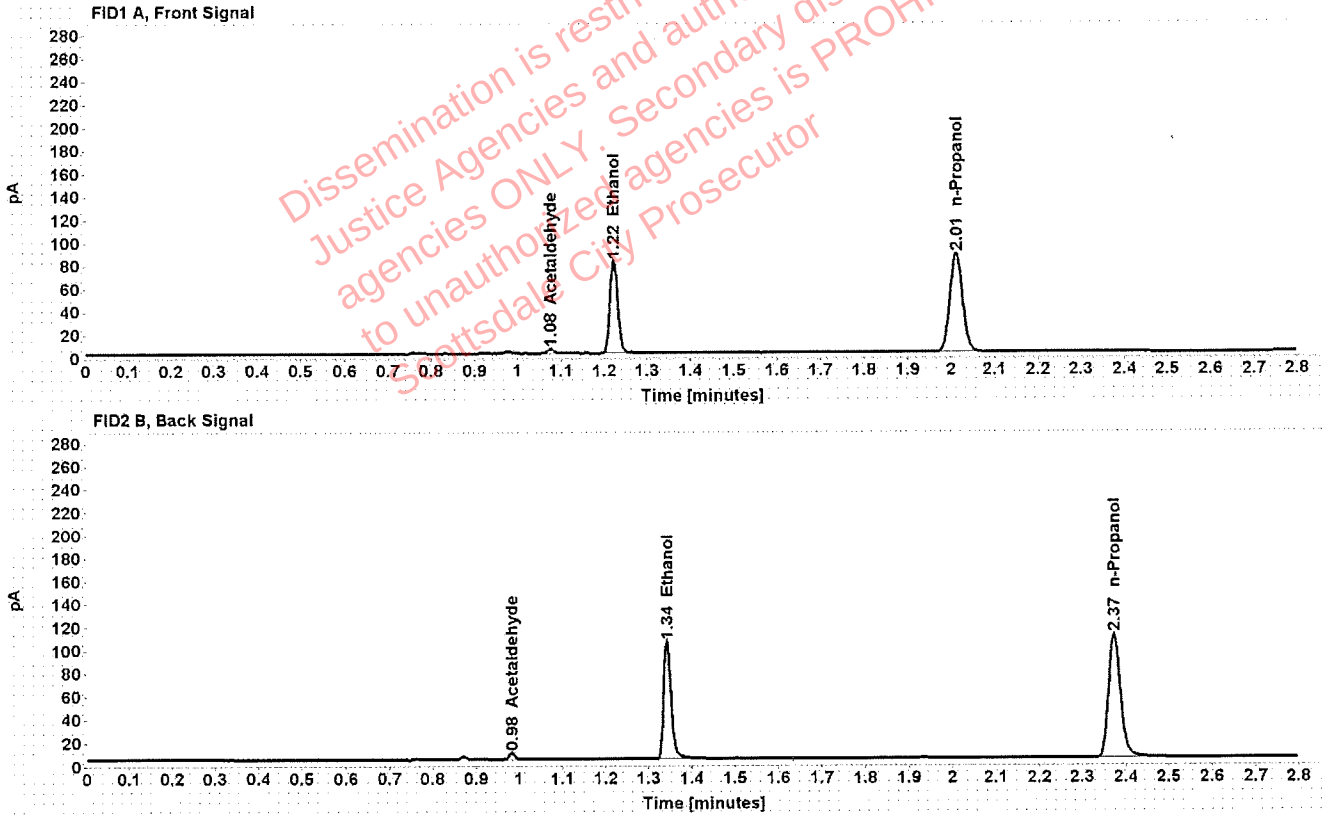


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.076	4.158
>Ethanol	0.1570	1.222	103.712
n-Propanol	------	2.012	175.441

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	5.218
Ethanol	1.343	122.646
n-Propanol	2.373	206.396

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1226403
Injection date:	8/3/2018 12:29:49 PM	**Vial:**	15
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian ~~Raines~~ Raines 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\15.D		

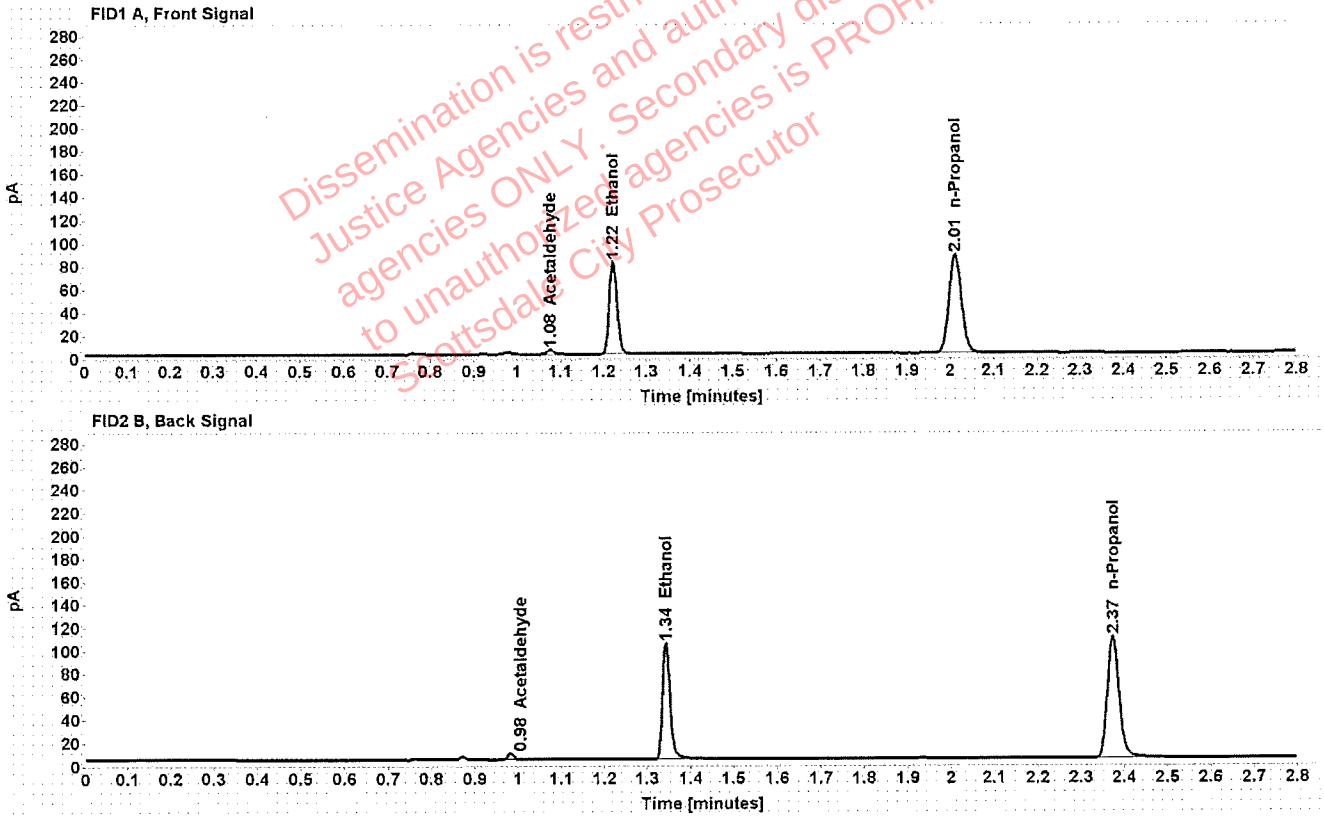


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.076	4.106
>Ethanol	0.1575	1.222	103.080
n-Propanol	------	2.011	173.822

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	5.161
Ethanol	1.343	121.844
n-Propanol	2.373	204.448

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1223466
Injection date:	8/3/2018 12:33:48 PM	**Vial:**	16
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\16.D		8/3/18

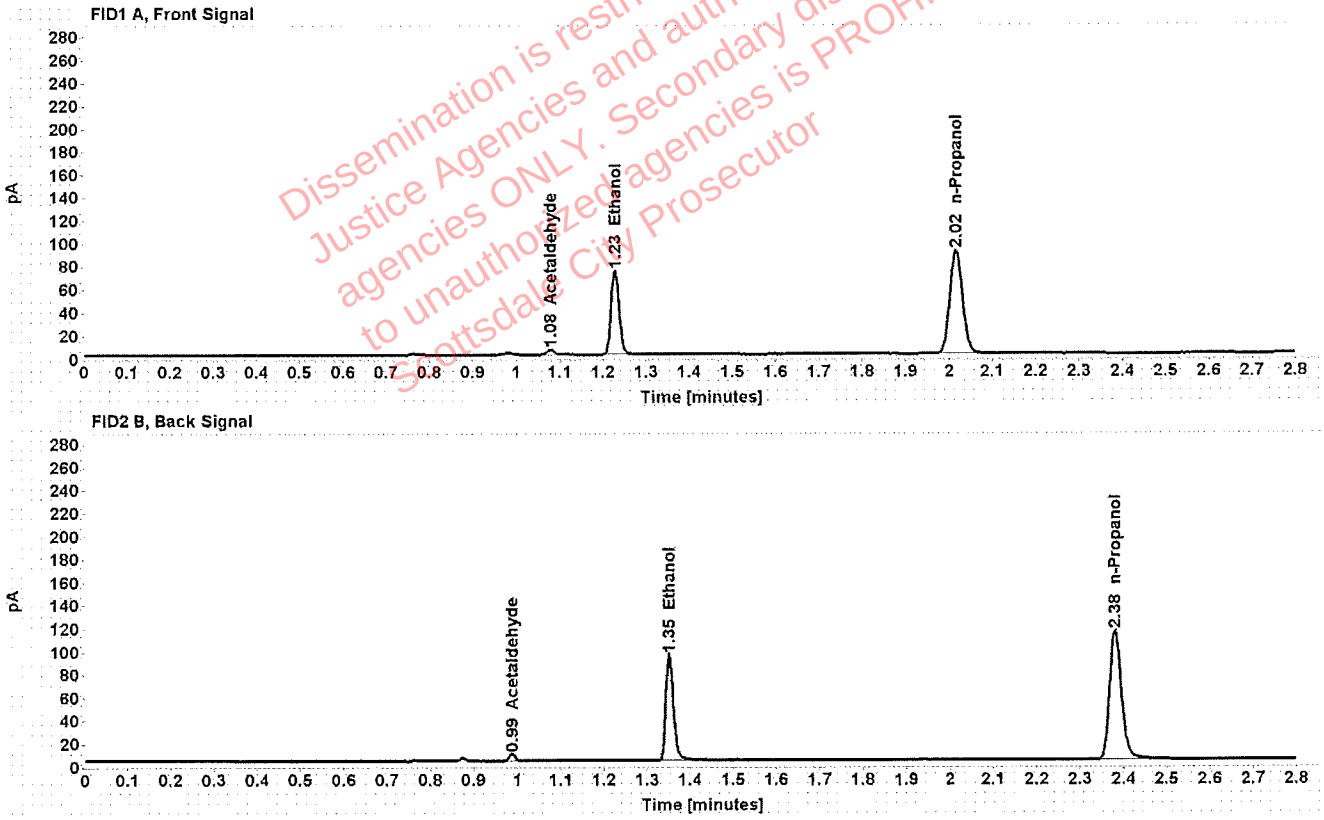


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.080	4.568
>Ethanol	0.1381	1.228	95.223
n-Propanol	------	2.017	183.273

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.988	5.767
Ethanol	1.352	112.595
n-Propanol	2.381	216.071

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1223466
Injection date:	8/3/2018 12:37:50 PM	**Vial:**	17
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\17.D		MM 8/1/18

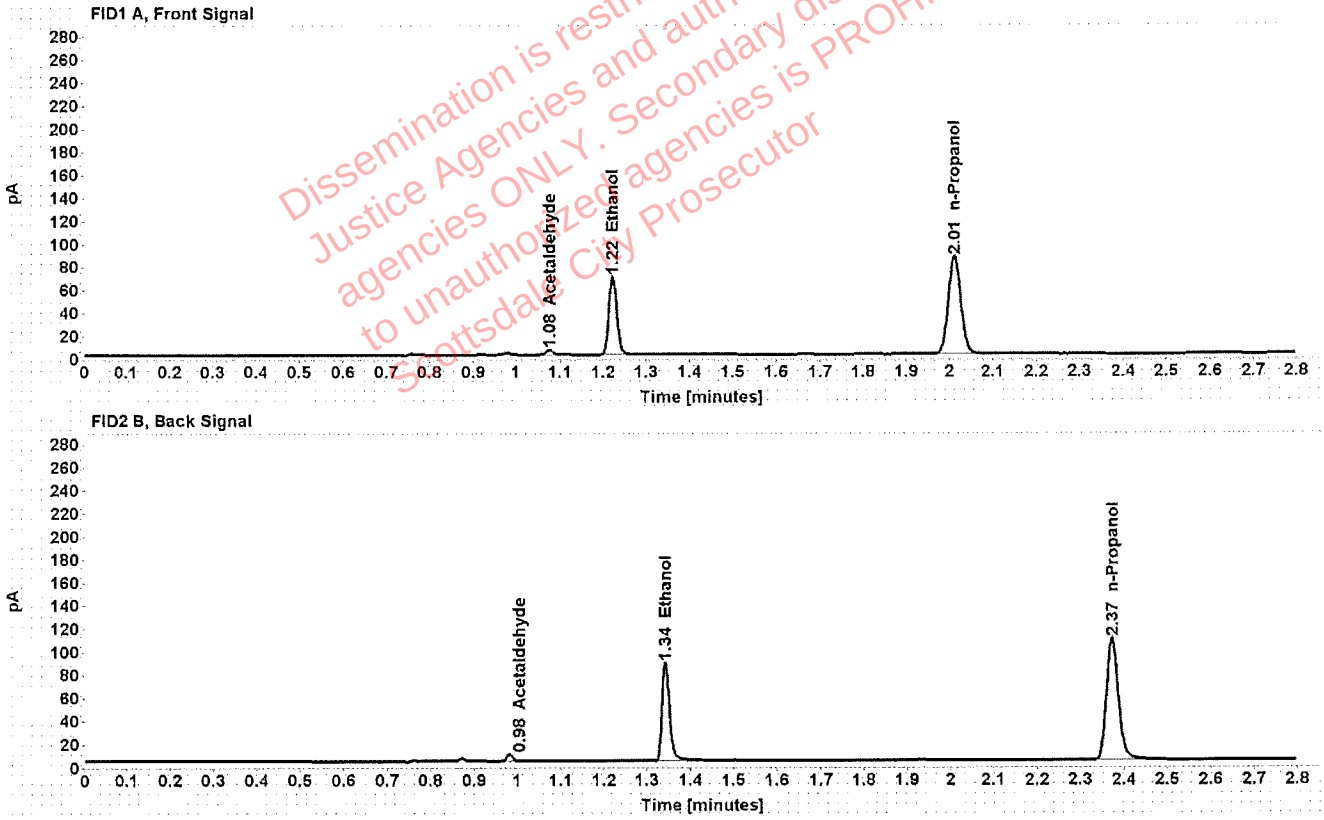


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.076	4.481
>Ethanol	0.1340	1.222	87.503
n-Propanol	------	2.011	173.606

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	5.665
Ethanol	1.343	103.169
n-Propanol	2.373	204.371

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1227531
Injection date:	8/3/2018 12:41:49 PM	**Vial:**	18
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Ruiz 8/7/18
Data file:	C:\Chem32\1\Data\03AUG18\18.D		

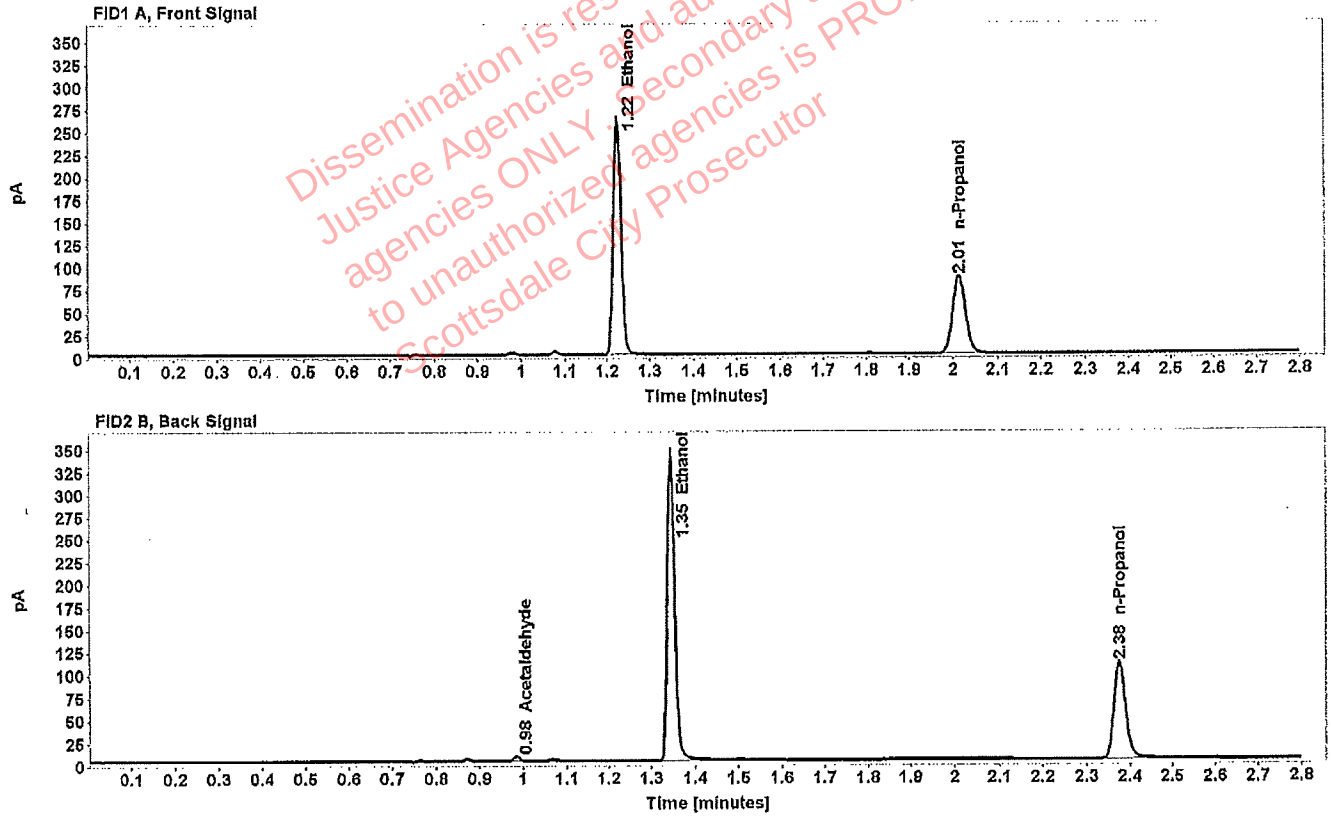


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.5037	1.224	332.638
n-Propanol	------	2.013	174.612

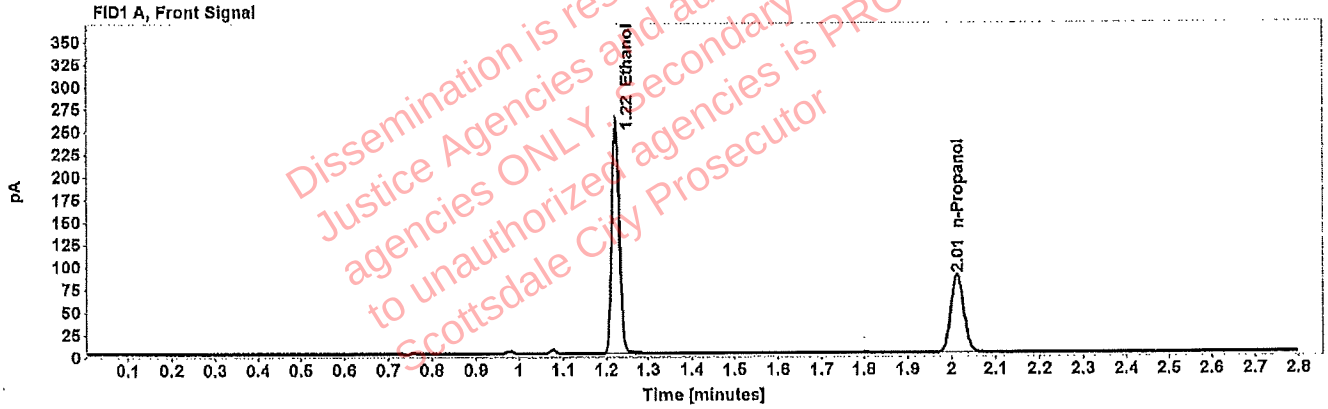
Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Acetaldehyde	0.985	4.614
Ethanol	1.345	398.587
n-Propanol	2.376	204.779

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1227531
Injection date:	8/3/2018 12:46:03 PM	**Vial:**	19
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/7/18
Data file:	C:\Chem32\1\Data\03AUG18\19.D		



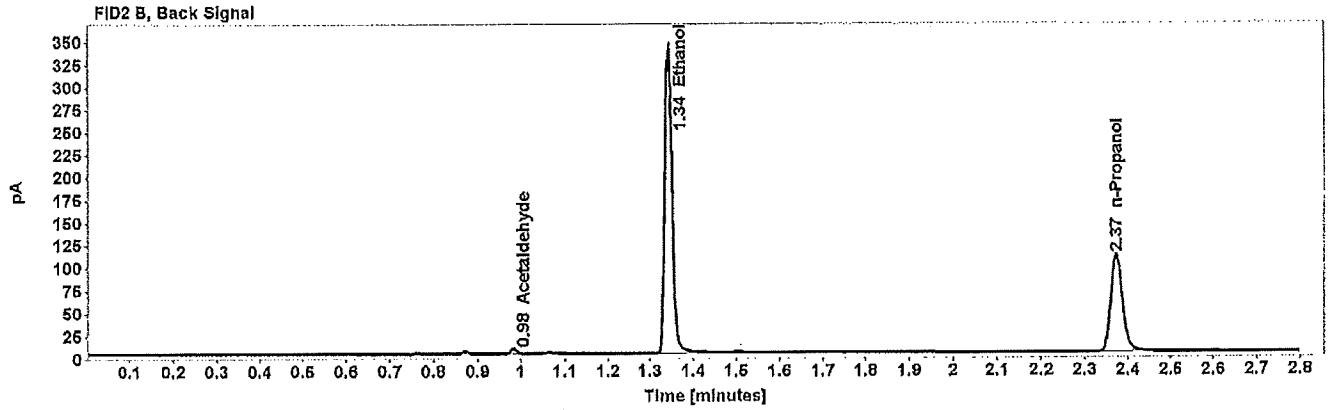


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4981	1.222	331.280
n-Propanol	------	2.012	175.844

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.984	4.733
Ethanol	1.343	397.332
n-Propanol	2.374	205.080

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1222774
Injection date:	8/3/2018 12:54:04 PM	**Vial:**	21
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\21.D		

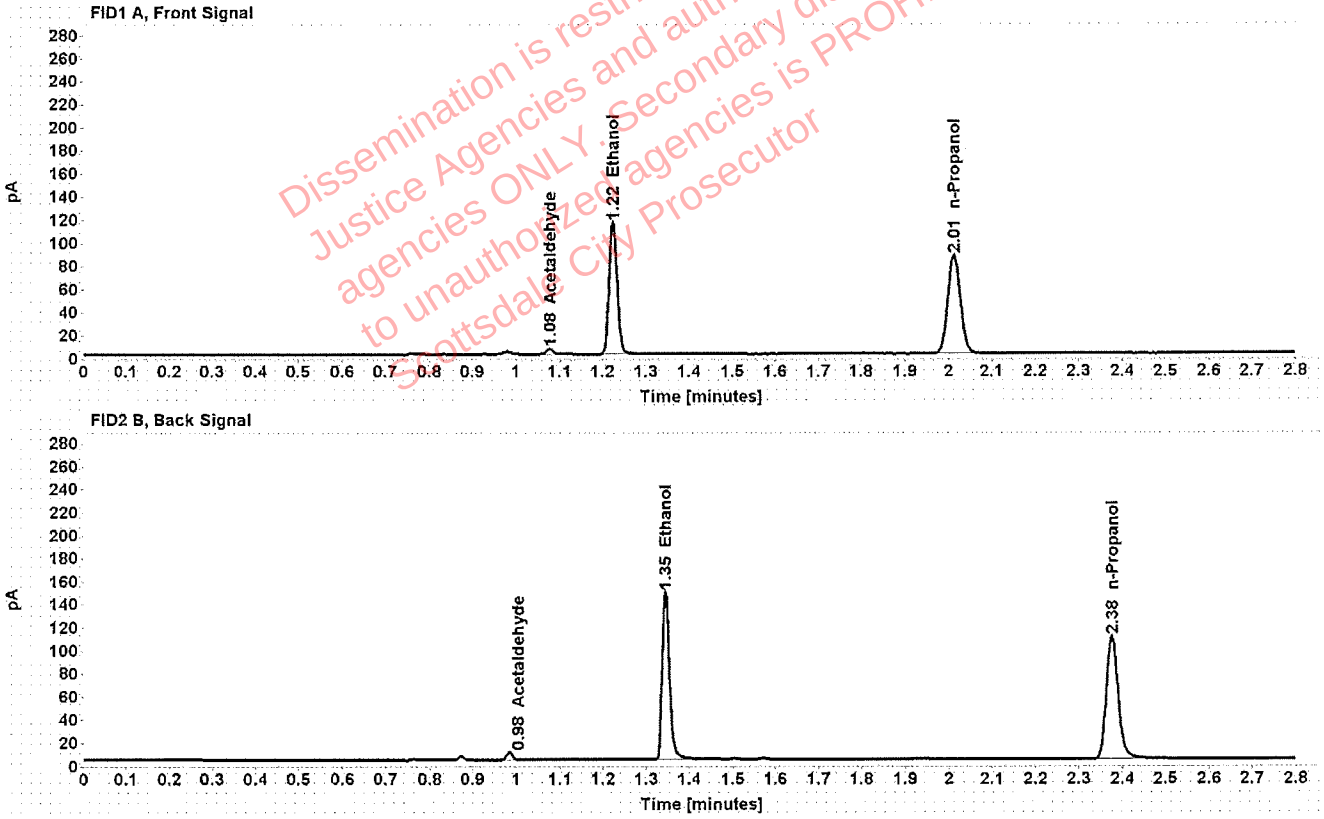


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.077	4.853
>Ethanol	0.2236	1.224	147.050
n-Propanol	------	2.013	174.269

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.984	6.068
Ethanol	1.345	176.501
n-Propanol	2.376	205.863

Case: [redacted] mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1222774
Injection date:	8/3/2018 12:58:03 PM	**Vial:**	22
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\22.D		

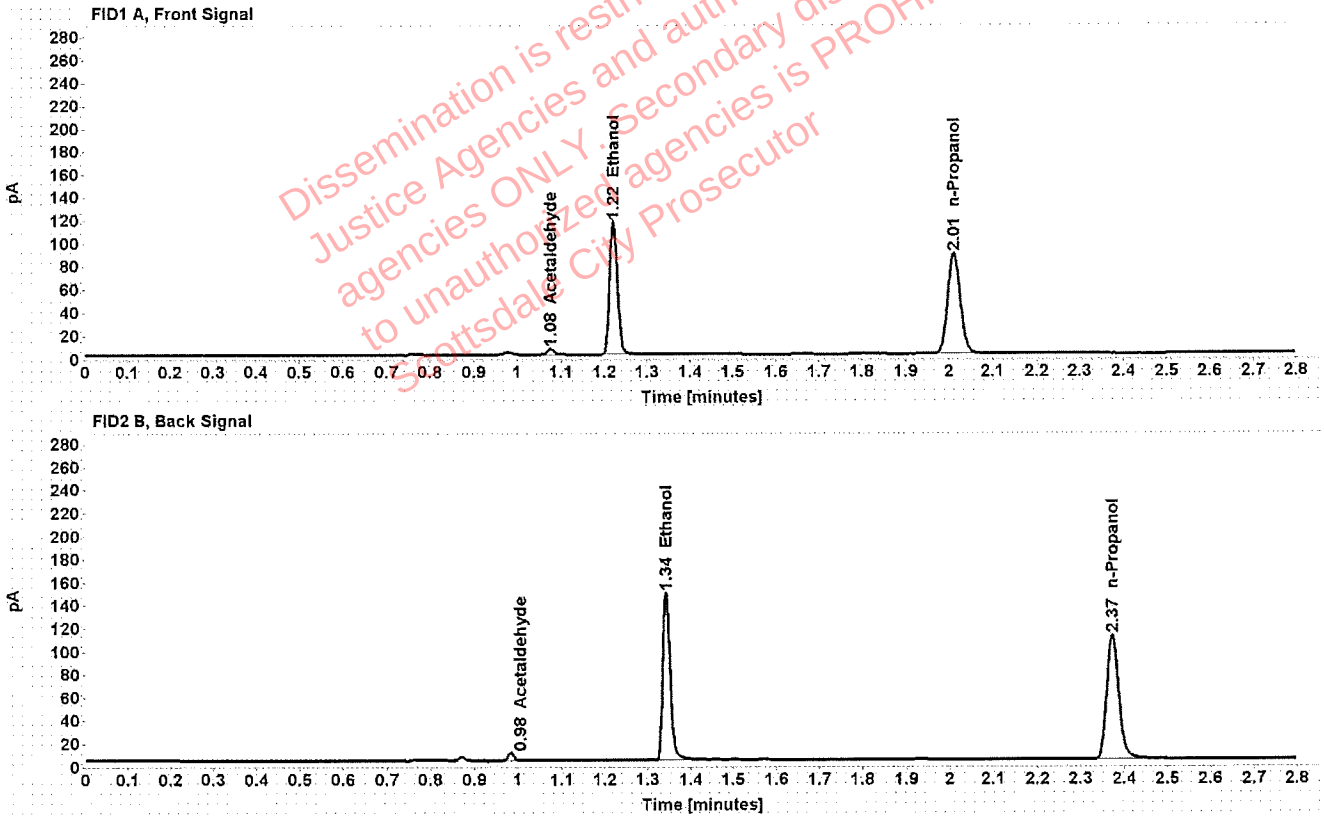


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.076	4.904
>Ethanol	0.2214	1.222	147.501
n-Propanol	------	2.011	176.593

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	6.169
Ethanol	1.342	177.031
n-Propanol	2.373	208.727

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1223446
Injection date:	8/3/2018 1:02:03 PM	**Vial:**	23
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines Lun 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\23.D		

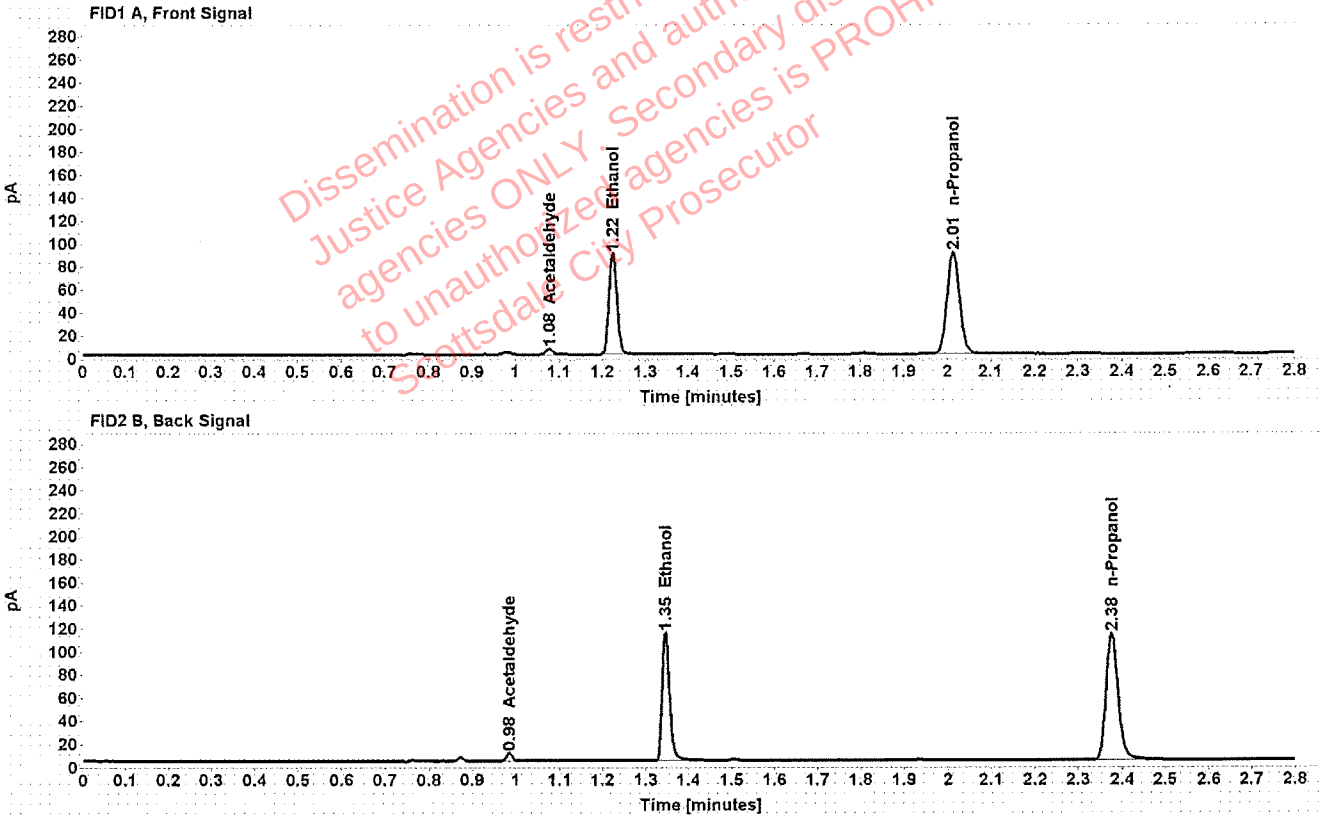


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.078	5.050
>Ethanol	0.1677	1.224	113.730
n-Propanol	------	2.013	180.045

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.985	6.271
Ethanol	1.346	134.614
n-Propanol	2.376	212.049

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1223446
Injection date:	8/3/2018 1:06:03 PM	**Vial:**	24
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines MR 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\24.D		

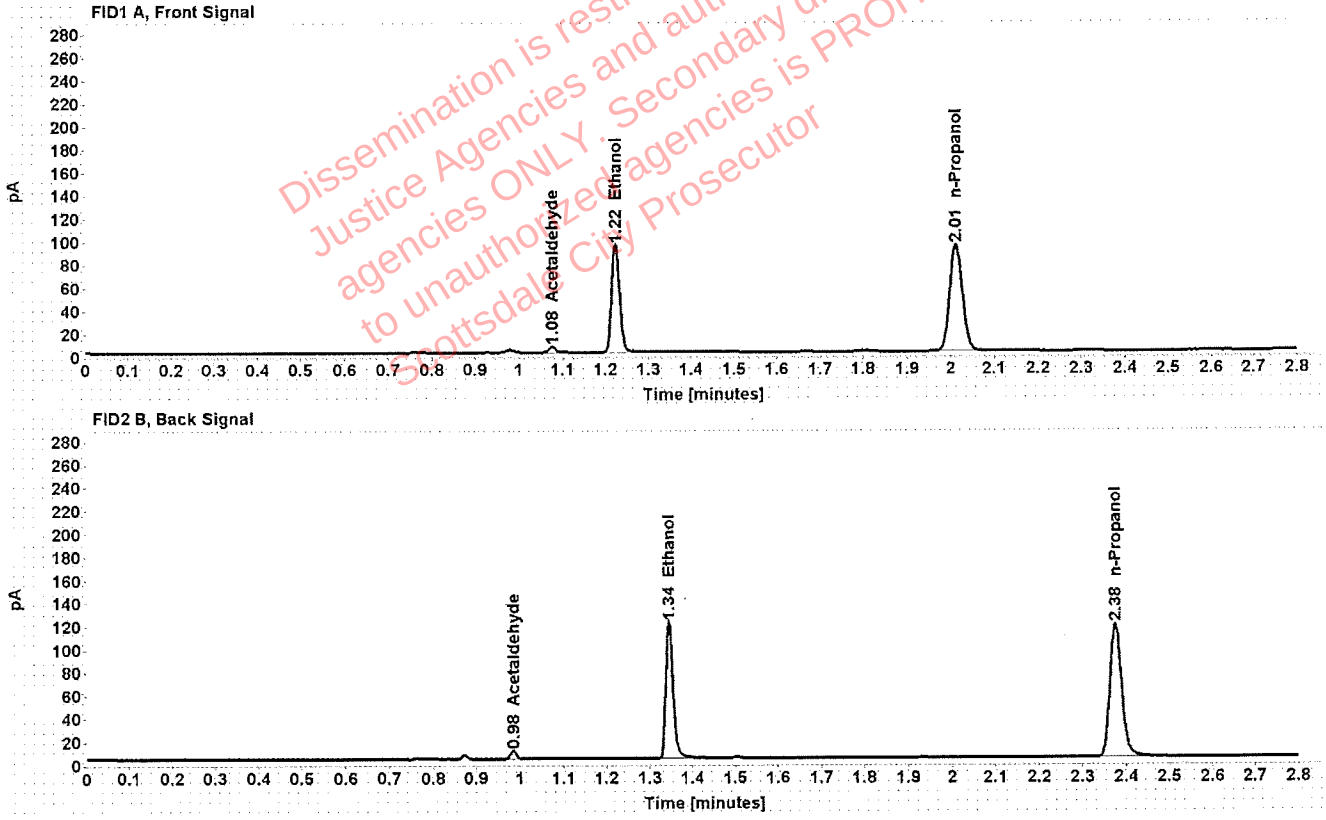


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.077	5.163
>Ethanol	0.1691	1.224	120.254
n-Propanol	------	2.013	188.732

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.984	6.452
Ethanol	1.345	142.192
n-Propanol	2.375	222.721

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	331-05A
Injection date:	8/3/2018 1:10:18 PM	**Vial:**	25
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\25.D		MM 8/7/18

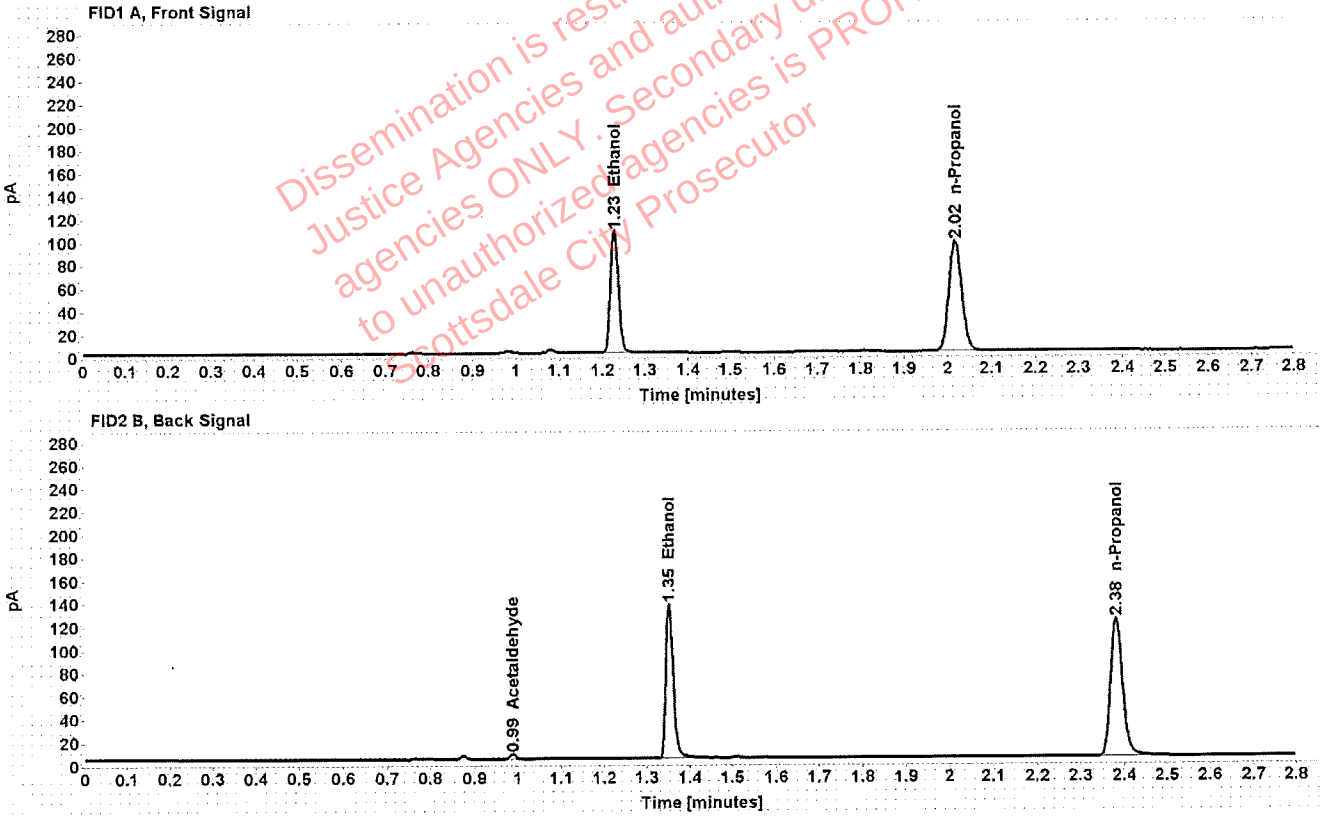


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1879	1.228	138.117
n-Propanol	------	2.017	194.956

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.988	3.864
Ethanol	1.352	165.695
n-Propanol	2.382	230.411

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	331-05A
Injection date:	8/3/2018 1:14:19 PM	**Vial:**	26
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\26.D		8/7/18

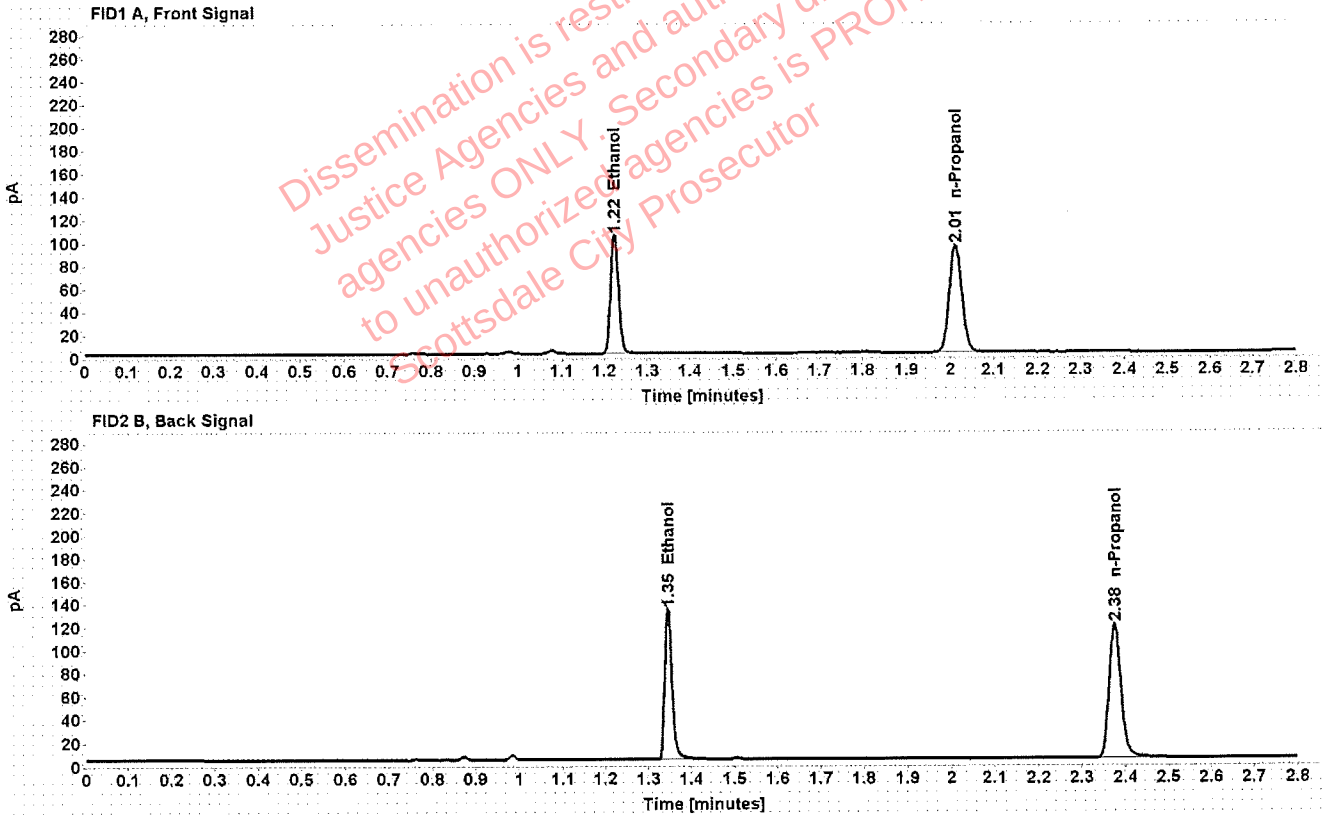


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1860	1.224	132.985
n-Propanol	------	2.013	189.684

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

Compound	Time (min)	Peak Area
Ethanol	1.345	157.979
n-Propanol	2.376	224.096

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	331-01A
Injection date:	8/3/2018 1:18:19 PM	**Vial:**	27
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\27.D		MR 8/7/18

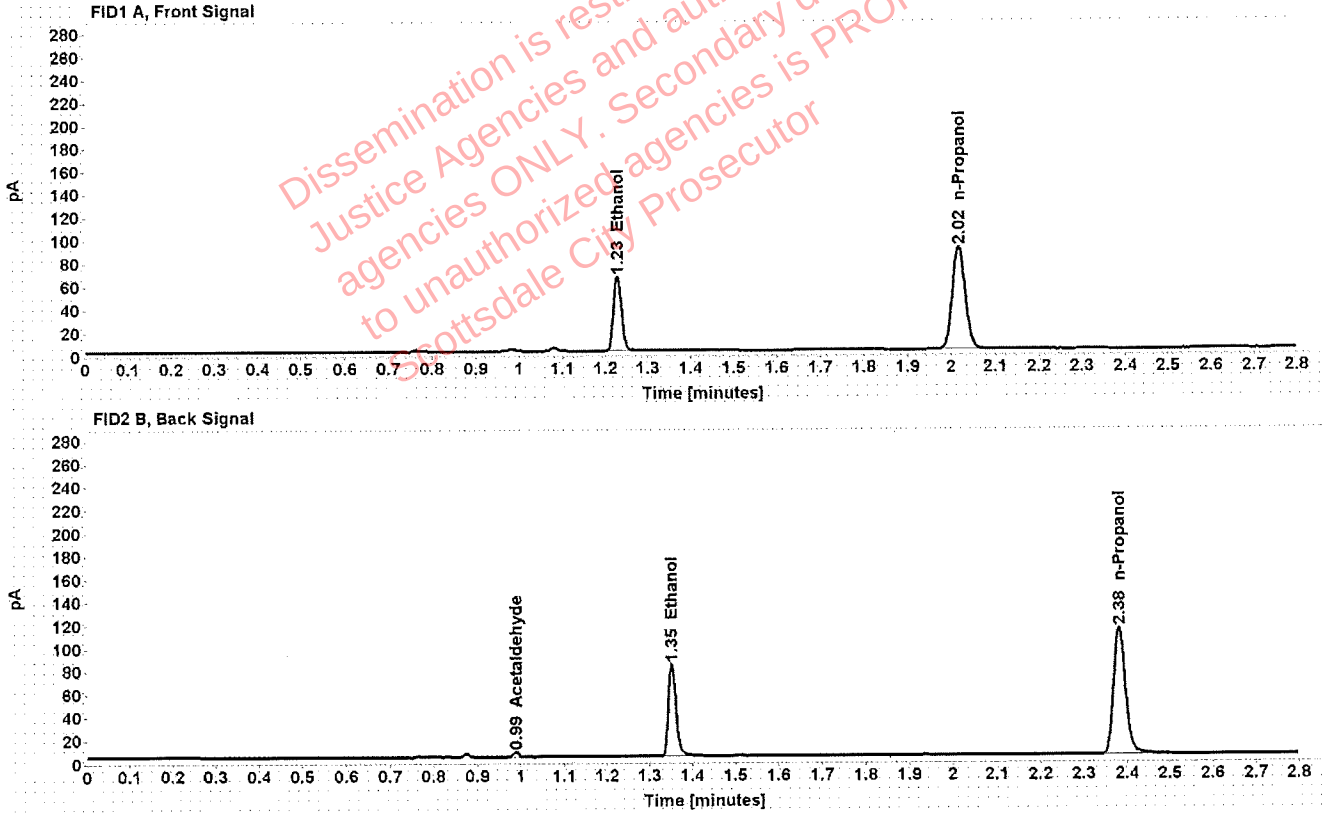


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1232	1.228	83.973
n-Propanol	------	2.017	181.267

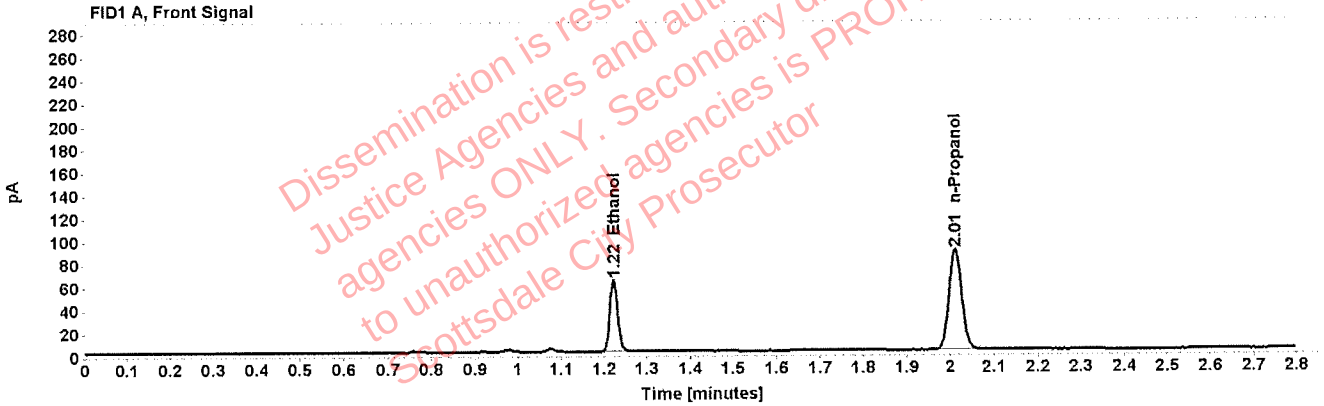
Table 2: FID 2 B (column DB-ALC2)

Compound	Time (min)	Peak Area
Acetaldehyde	0.988	3.810
Ethanol	1.352	98.910
n-Propanol	2.382	213.467

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	331-01A
Injection date:	8/3/2018 1:22:19 PM	**Vial:**	28
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines MR 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\28.D		



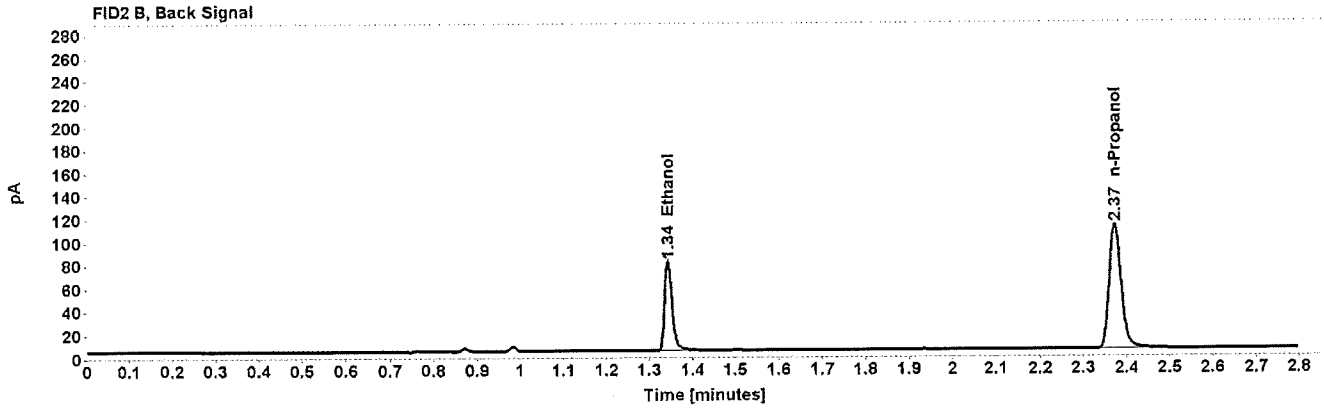


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1197	1.223	79.786
n-Propanol	------	2.011	177.410

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

Compound	Time (min)	Peak Area
Ethanol	1.343	94.183
n-Propanol	2.373	209.192

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1226740
Injection date:	8/3/2018 1:26:19 PM	**Vial:**	29
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/1/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\29.D		

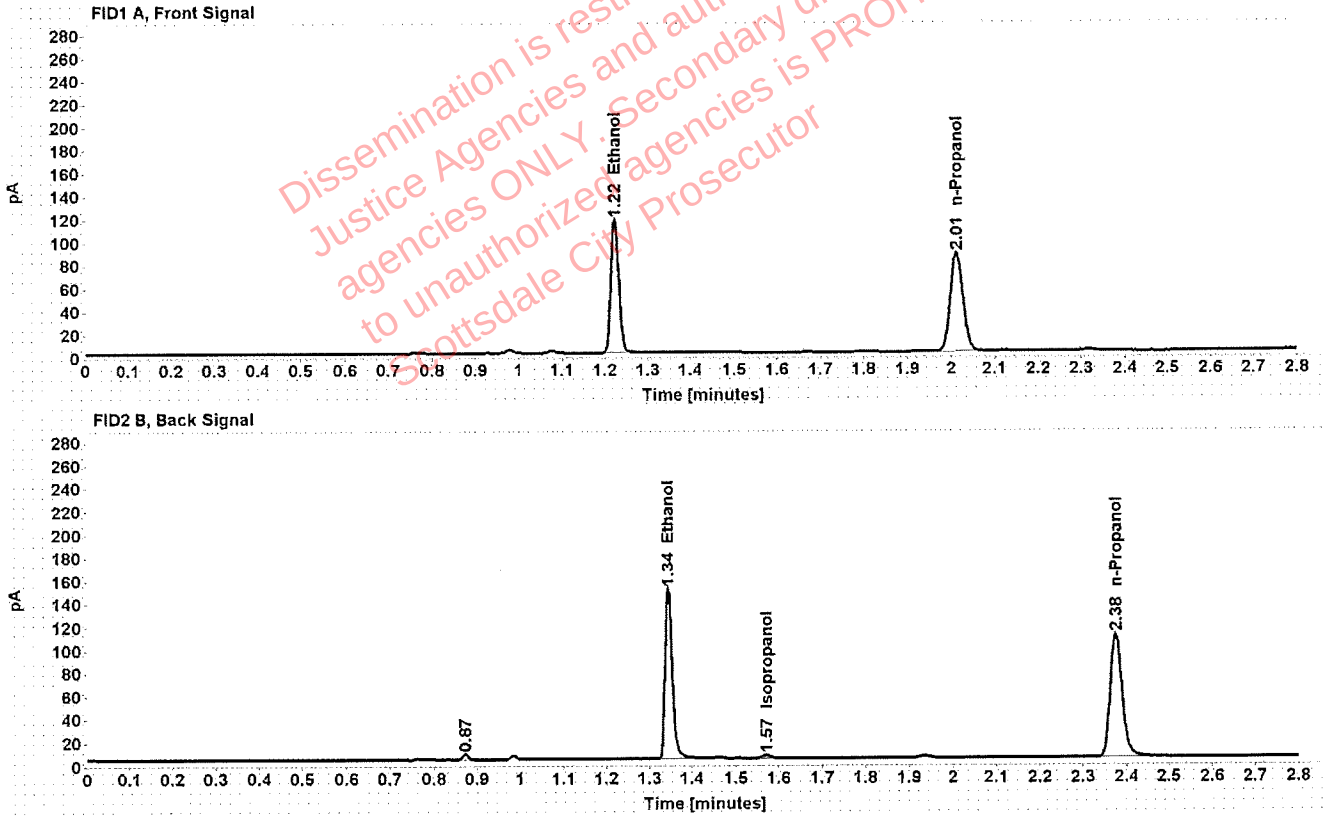


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2238	1.224	149.277
n-Propanol	------	2.013	176.776

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

Compound	Time (min)	Peak Area
Ethanol	1.345	179.484
Isopropanol	1.571	4.261
n-Propanol	2.376	207.078

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1226740
Injection date:	8/3/2018 1:30:18 PM	**Vial:**	30
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\30.D		8/7/18

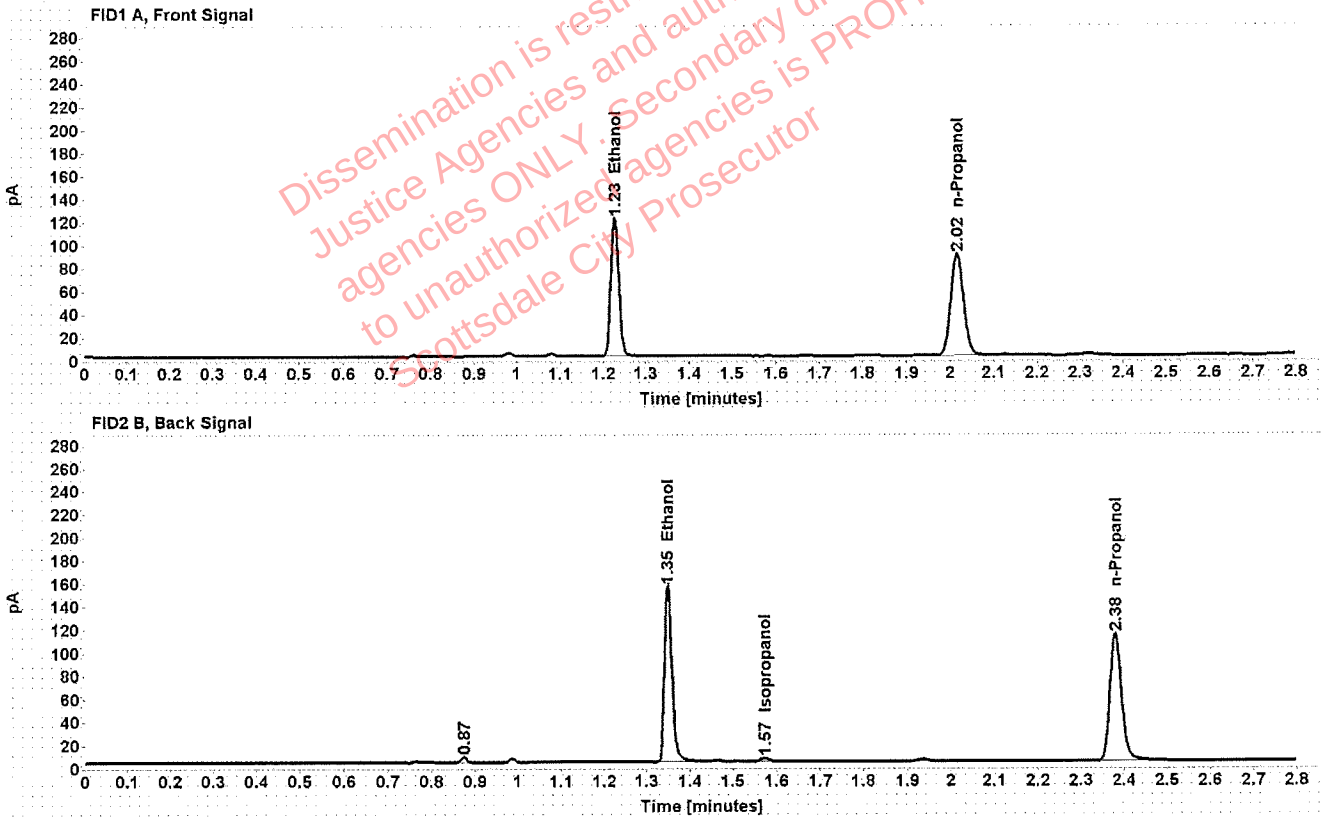


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2274	1.227	155.516
n-Propanol	------	2.016	181.228

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

Compound	Time (min)	Peak Area
Ethanol	1.350	187.027
Isopropanol	1.573	4.421
n-Propanol	2.380	212.554

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1227289
Injection date:	8/3/2018 1:38:33 PM	**Vial:**	32
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\32.D		MM 8/1/18

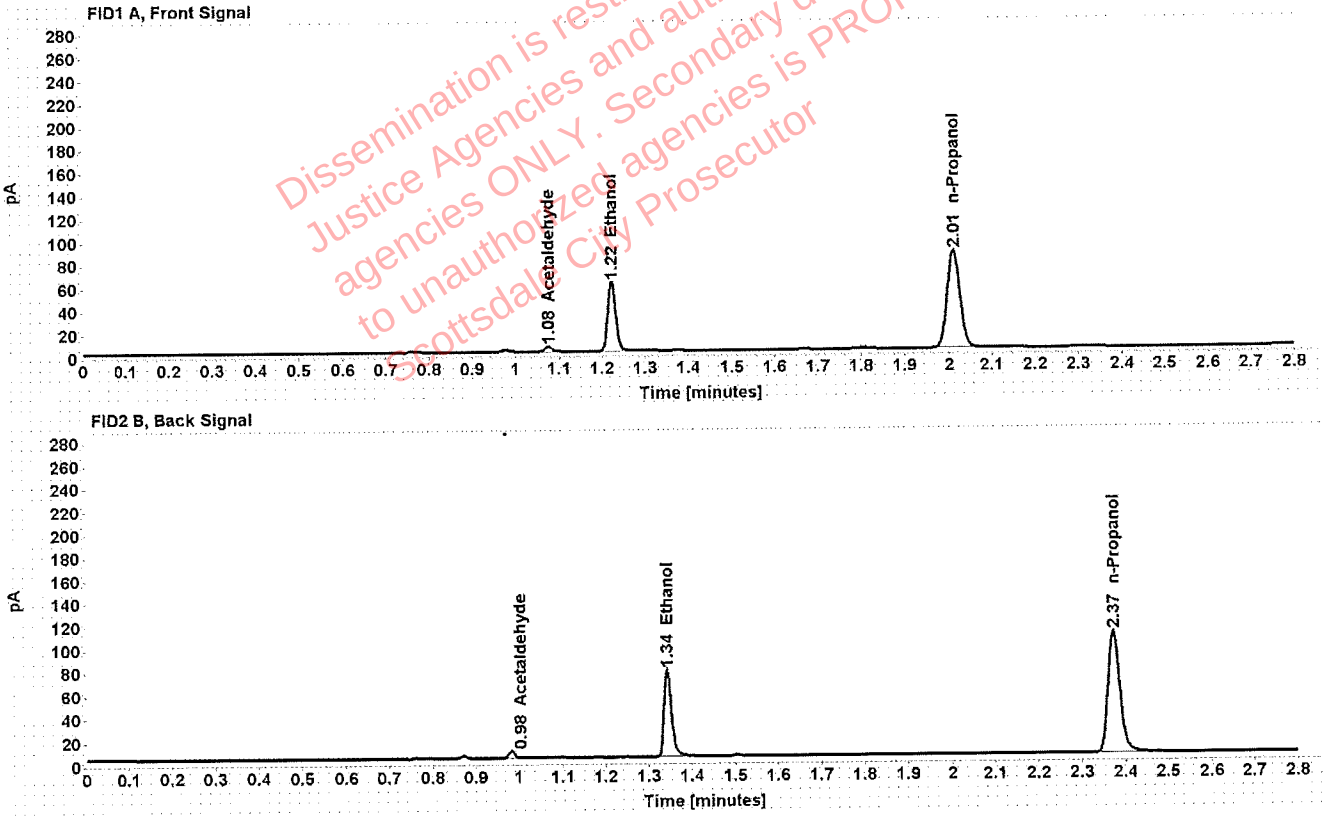


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.076	4.496
>Ethanol	0.1186	1.223	77.084
n-Propanol	------	2.011	172.908

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	5.639
Ethanol	1.343	90.420
n-Propanol	2.373	203.748

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1227289
Injection date:	8/3/2018 1:42:33 PM	**Vial:**	33
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\33.D		8/7/18

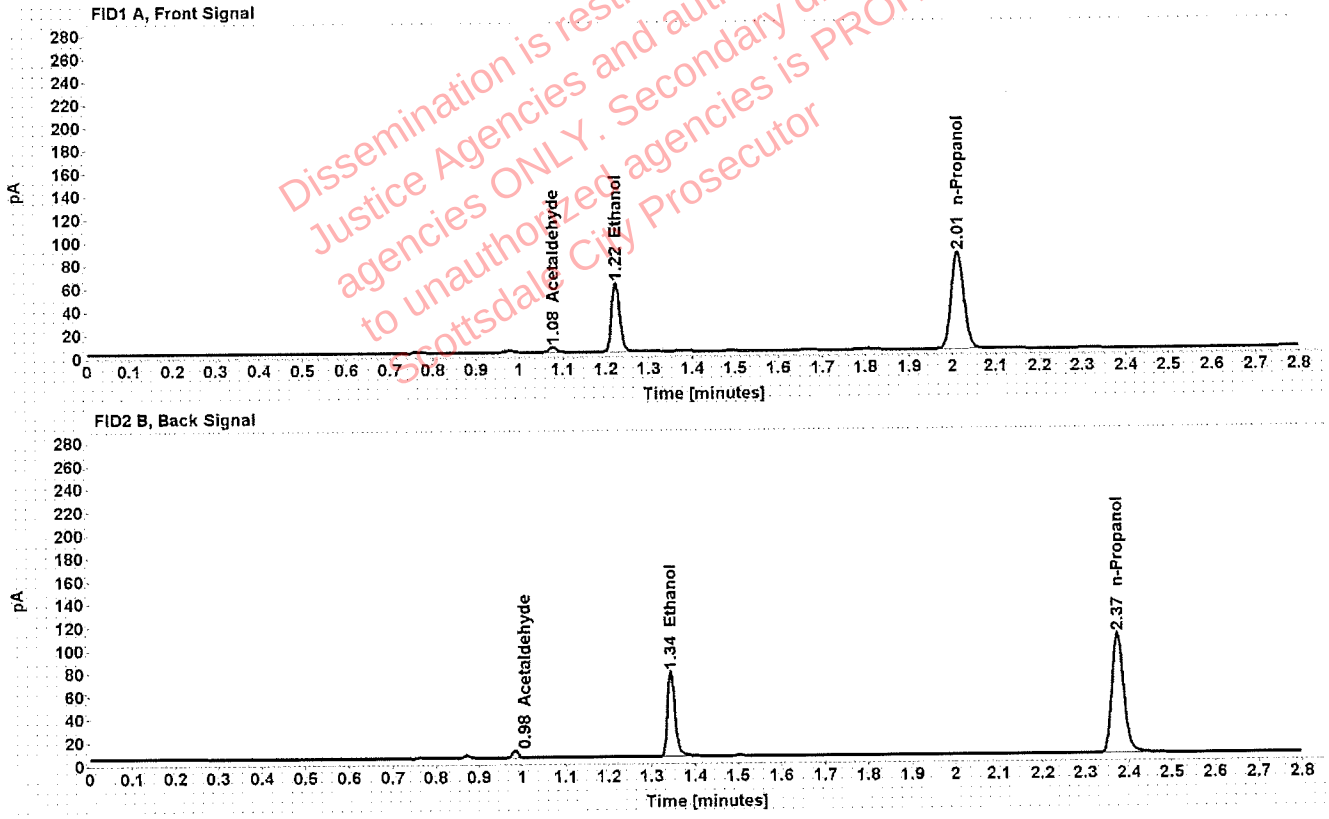


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.077	4.580
>Ethanol	0.1191	1.223	76.704
n-Propanol	------	2.012	171.383

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.984	5.738
Ethanol	1.344	89.907
n-Propanol	2.374	201.686

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1227687
Injection date:	8/3/2018 1:46:33 PM	**Vial:**	34
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	~~Adrian~~ Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\34.D		MM 8/2/18

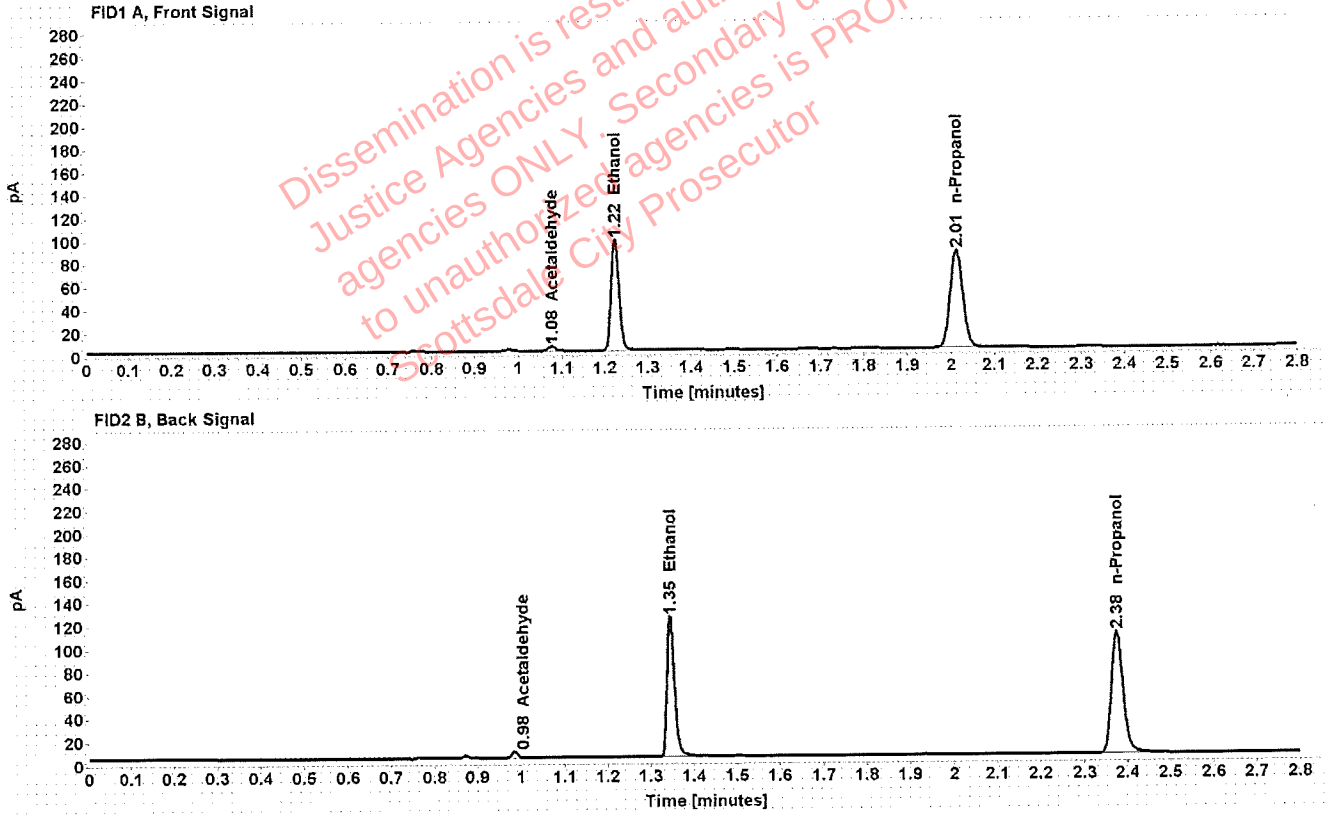


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.078	4.167
>Ethanol	0.1905	1.224	124.310
n-Propanol	------	2.013	173.079

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.985	5.152
Ethanol	1.346	147.618
n-Propanol	2.376	204.544

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1227687
Injection date:	8/3/2018 1:50:33 PM	**Vial:**	35
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\35.D		

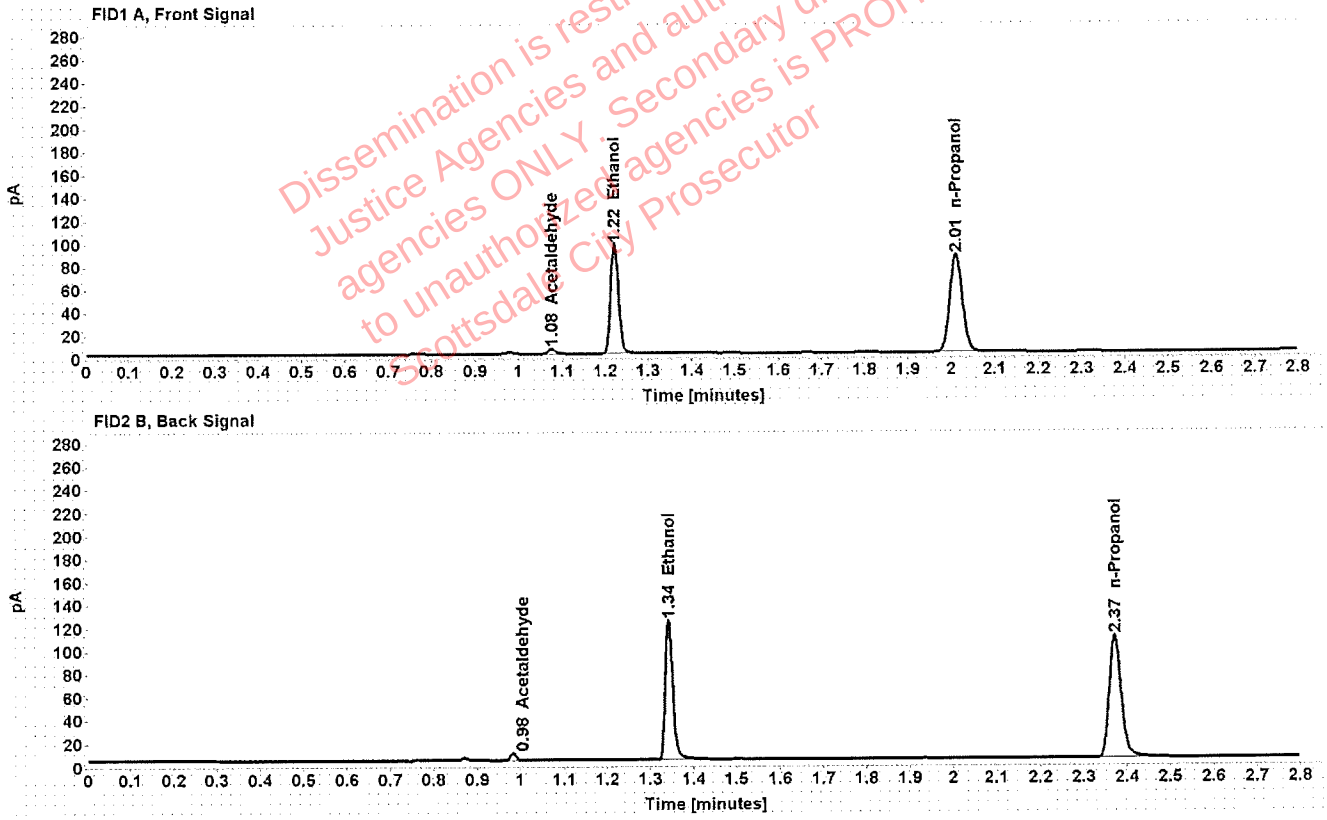


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde	------	1.076	4.313
>Ethanol	0.1873	1.222	122.676
n-Propanol	------	2.011	173.782

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	5.421
Ethanol	1.342	145.747
n-Propanol	2.373	205.400

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1221020
Injection date:	8/3/2018 1:54:33 PM	**Vial:**	36
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\36.D		

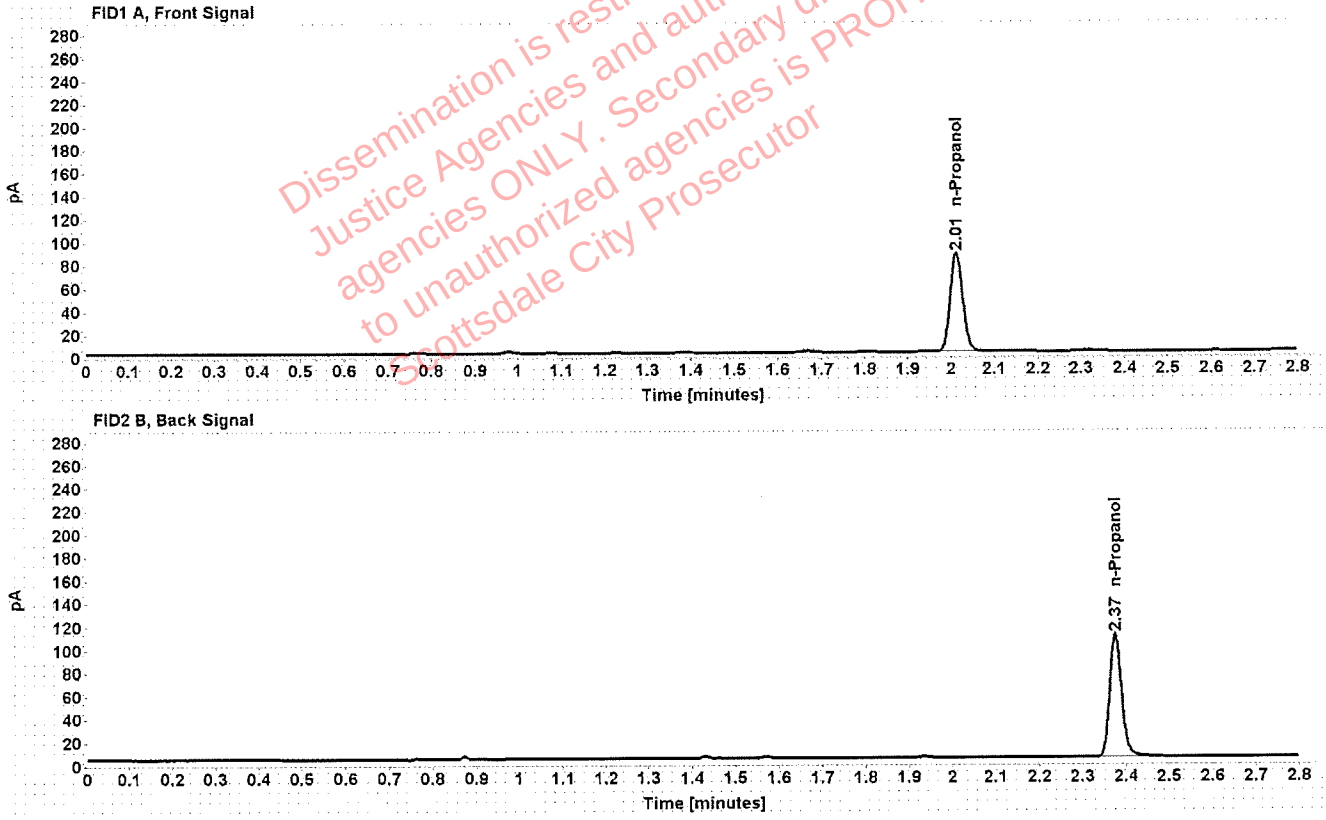


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	------	2.013	174.047

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

Compound	Time (min)	Peak Area
n-Propanol	2.375	205.264

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1221020
Injection date:	8/3/2018 1:58:48 PM	**Vial:**	37
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines MR 8/7/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\37.D		

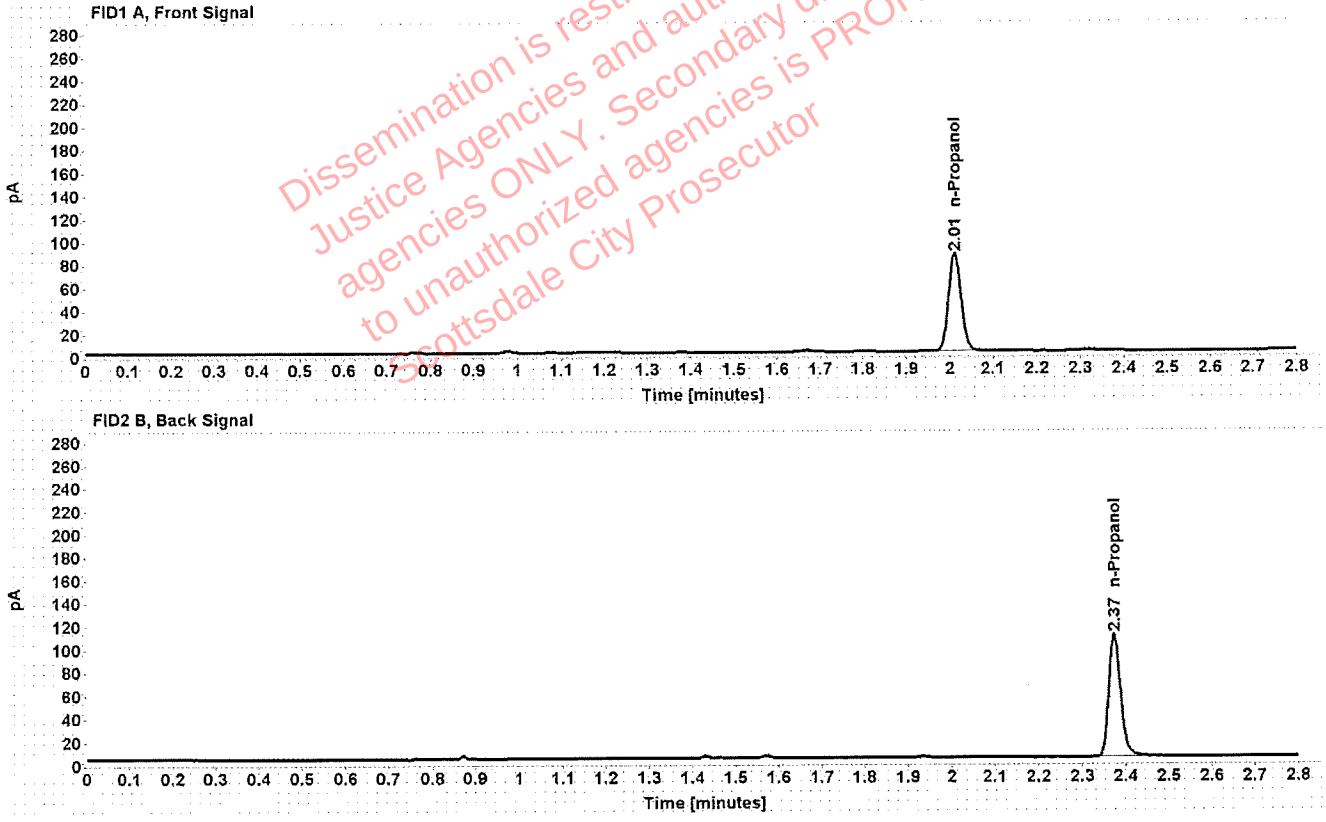


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
n-Propanol	------	2.012	172.862

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

Compound	Time (min)	Peak Area
n-Propanol	2.374	204.233

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1227863
Injection date:	8/3/2018 2:02:48 PM	**Vial:**	38
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines 8/1/18
Data file:	C:\Chem32\1\Data\Raines\03AUG18\38.D		

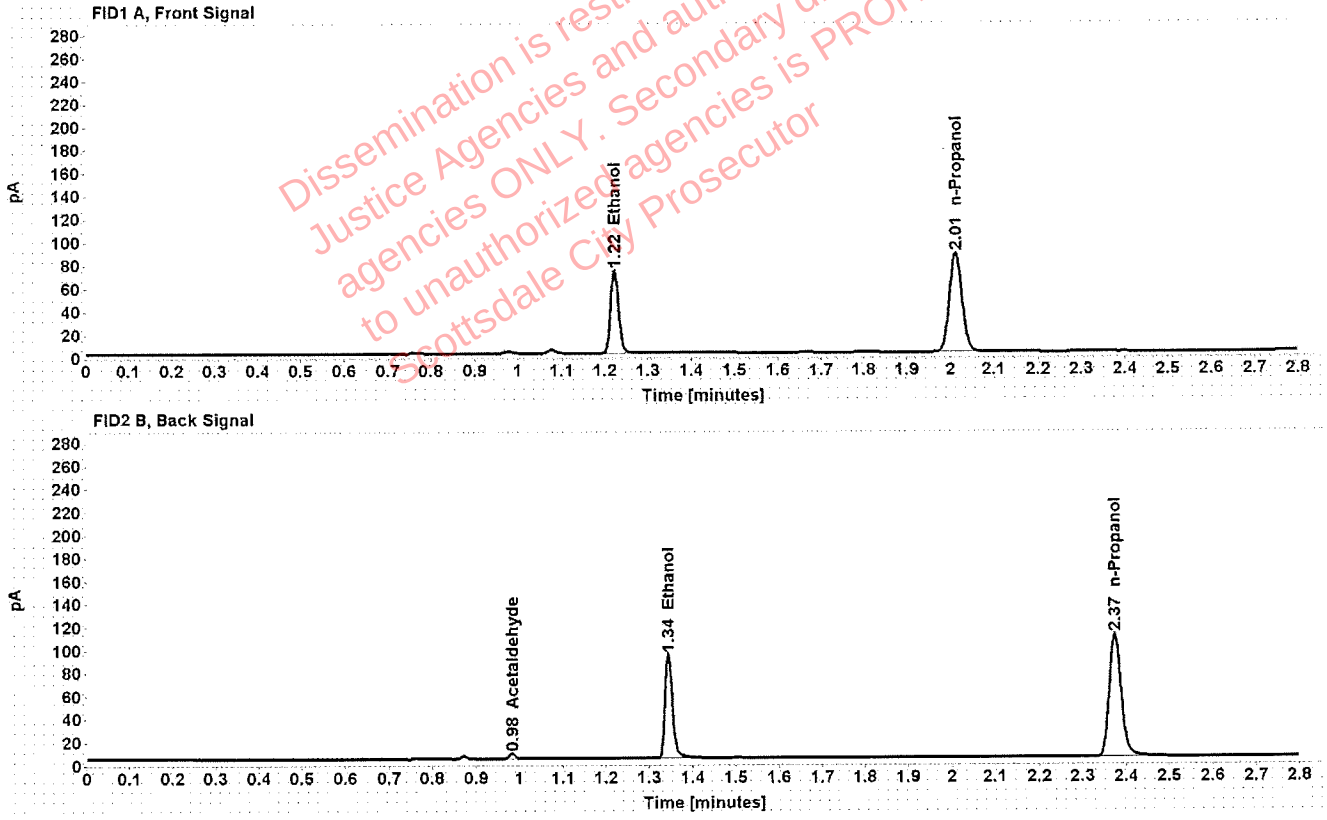


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1405	1.223	92.422
n-Propanol	------	2.012	174.858

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.984	4.302
Ethanol	1.344	109.164
n-Propanol	2.374	206.732

Case: [redacted] User: mraines 8/3/2018

Scottsdale Police Department Crime Lab Volatiles Analysis

Sample:	[redacted]	**Item number:**	1227863
Injection date:	8/3/2018 2:06:49 PM	**Vial:**	39
Method:	ethanol quant.M	**Sequence:**	03AUG18
Instrument:	US14173023 CN14160045	**Analyst:**	Adrian Raines
Data file:	C:\Chem32\1\Data\Raines\03AUG18\39.D		8/7/18

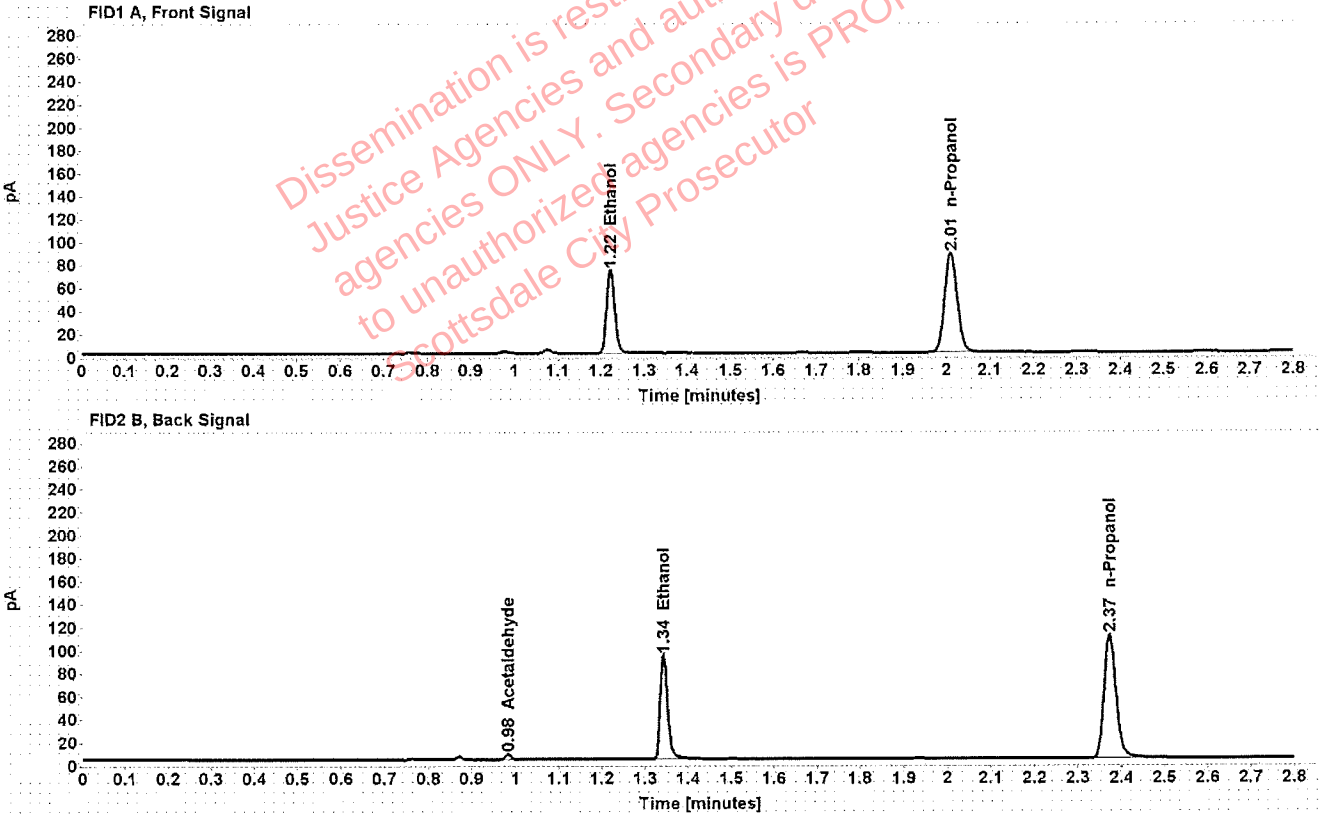


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1405	1.222	92.770
n-Propanol	------	2.011	175.454

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	4.240
Ethanol	1.343	109.727
n-Propanol	2.373	207.422