SCOTTSDALE POLICE DEPARTMENT CRIME LABORATORY **BLOOD ALCOHOL FACE SHEET**

ANALYSIS DATE	-	091418	SE	QUENCE NAM	ЛЕ	14SEPT18
EQUIPMENT Pipettor Gas Chromatograph		Hamilton ML6 Agilent US141		A Hamilton I	VIL600G.	J10749
INSTRUMENT CAL	IBF	RATION	ricted t	orizesenning	SITE	
Vial 1 0.02 calibrator	Lot	FN03241604	a sur	N R Coeff	icient of o	determination (r²)
Vial 2 0.10 calibrator	Lot	FN06181501	neono	SIST	1.00000	1
Vial 3 0.20 calibrator	Lot	FN07201502	Seanch	, itor		
Vial 4 0.40 calibrator	Lot	FN11191402	39050	<u> </u>		
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CALIBRATION VERIFICATION AND RESOLUTION TEST

CIC

Vial	Sample 📢	Expected result	Measured result	Manufacturer/lot
5	Blank C	Not detected	Not detected	SPD lab 081418
6	Volatiles mixture	6 compounds	6 compounds	SPD lab 020917WLA
7	Aqueous control	0.400 g/dL	0.399 g/dL	Lipomed 08012015-C
8	Aqueous control	0.040 g/dL	0.039 g/dL	Lipomed 09022015-A
9	Blood control	0.198 g/dL	0.198 g/dL	ACQ 407041529/3
20	Aqueous control	0.400 g/dL	0.402 g/dL	Lipomed 08012015-C
21	Aqueous control	0.040 g/dL	0.039 g/dL	Lipomed 09022015-A
22	Blood control	0.198 g/dL	0.202 g/dL	ACQ 407041529/3
23	Blank	Not detected	Not detected	SPD lab 081418

SUBJECT SAMPLES

Subjects in the sequence	5 Subjects requiring g proceeded as expected.	reanalysis <u>0</u>
Run valid Analyst	<u>166 9-17-18</u> Run valid ⊡	UA BISTO 9/18/18 Technical Reviewer

Document ID: 1208 Revision Date:02/27/2017 Issuing Authority: Kris Cano, Forensic Laboratory Manager Page 1 of 1

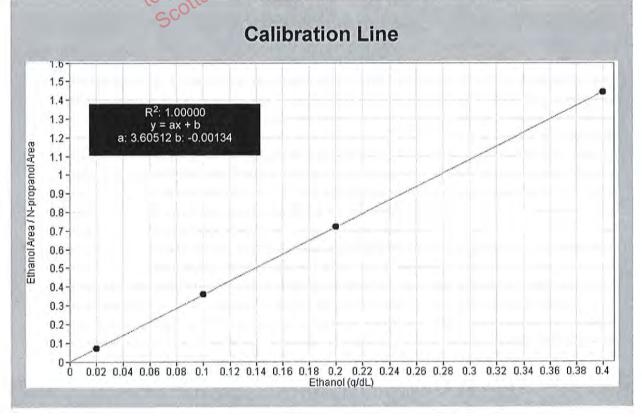
Scottsdale Police Department Crime Laboratory Sequence Quality Assurance Summary

SEQUENCE NAME: 14SEPT18

ANALYST: Raines

Sample Name	Vial	Measured Value (g/dL)	Expected Value (g/dL)	Percent Difference	Absolute Difference (g/dL)
blank 081418	5	negative	negative	J.C	
0.400 Lipomed 08012015-C	7	0.399	0.400	0.25	-0.001
0.040 Lipomed 09022015-A	8	0.039	0.040	2.50	-0.001
0.198 ACQ 407041529/3	9	0.198	0.198	0.00	0.000
0.40 Lipomed 08012015-C	20	0.402	0.400	0.50	0.002
0.04 Lipomed 09022015-A	21	0.039	0.040	2.50	-0.001
0.198 ACQ 407041529/3	22	0.202	0.198	2.02	0.004
blank 081418	23	negative	negative	-	

JISSE	Calibrator	Ethanol	N-propanol Area	Ratio
	0.020	13.070	183.848	0.071
	0.100	65.555	183.163	0.358
20	0.200	132.412	183.660	0.721
	0.400	265.578	184.382	1.440



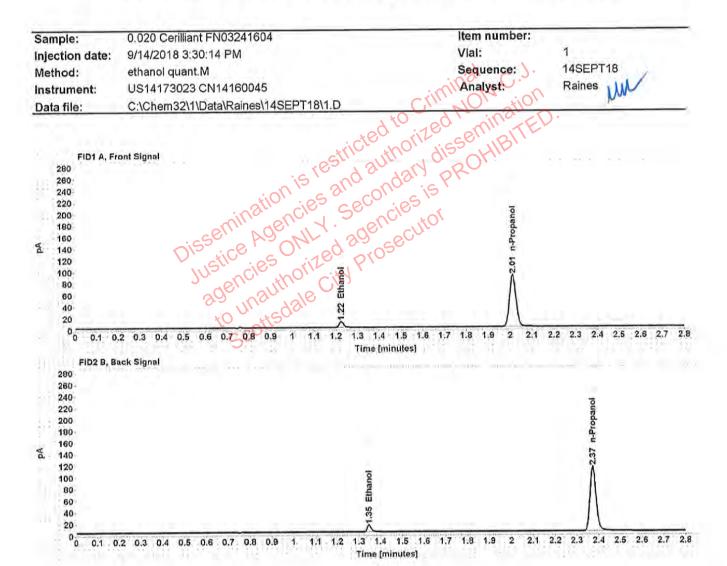


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.225	13.070
n-Propanol	2.012	183.848

Compound	Time (min)	Peak Area
Ethanol	1.346	15.086
n-Propanol	2.374	213.590

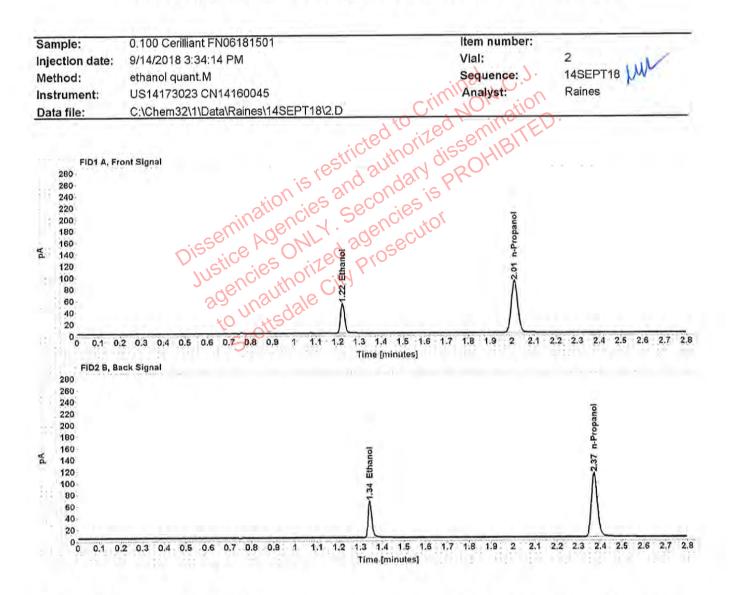


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.222	65.555
n-Propanol	2.011	183.163

Compound	Time (min)	Peak Area
Ethanol	1.342	76.646
n-Propanol	2.372	213.126

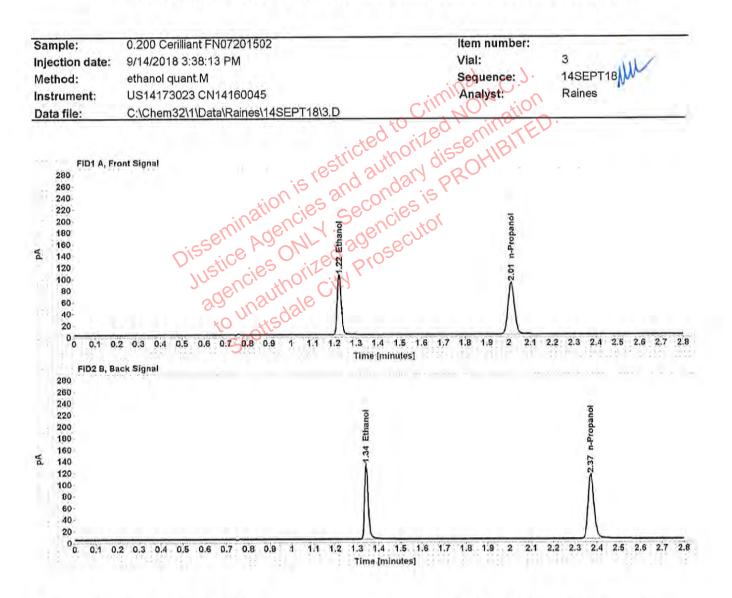


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.222	132.412
n-Propanol	2.011	183.660

Compound	Time (min)	Peak Area
Ethanol	1.342	155.882
n-Propanol	2.373	213.355

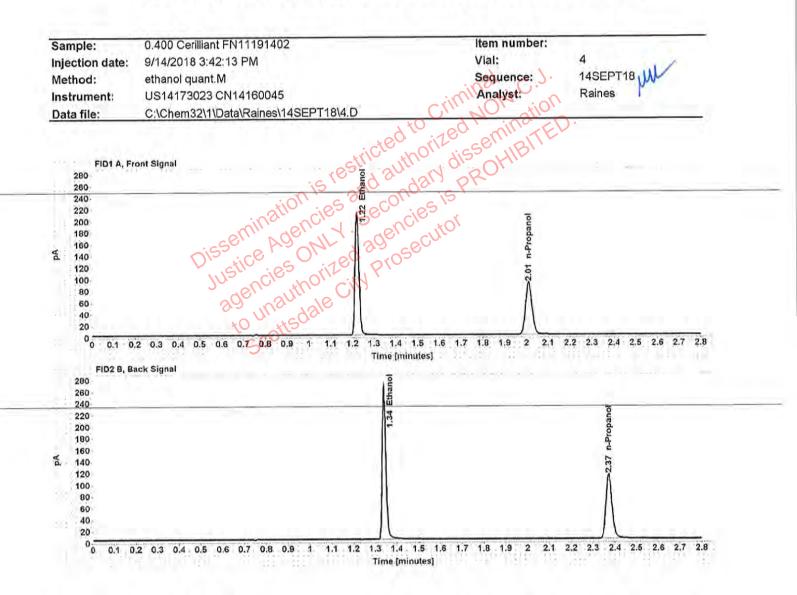
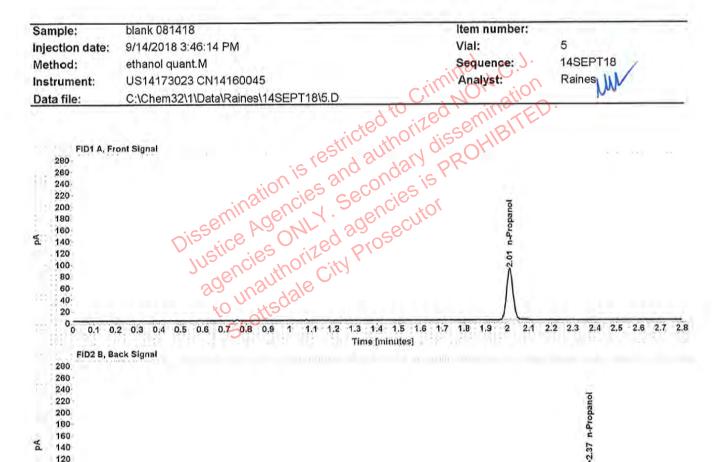


Table 1: FID 1 A (column DB-ALC1)

Compound	Time (min)	Peak Area
Ethanol	1.221	265.578
n-Propanol	2.011	184.382

Compound	Time (min)	Peak Area
Ethanol	1.341	315.143
n-Propanol	2.372	214.574



1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2

Time [minutes]

Scottsdale Police Department Crime Lab Volatiles Analysis

Table 1: FID TA (column DB-ALCT	ble 1: FID 1 A (column DB-ALC1)
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Compound	Amount	Time	Peak
	(g/100mL)	(min)	Area
n-Propanol		2.011	181.252

0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9

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

2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8

Compound	Time (min)	Peak Area
n-Propanol	2.372	210.216

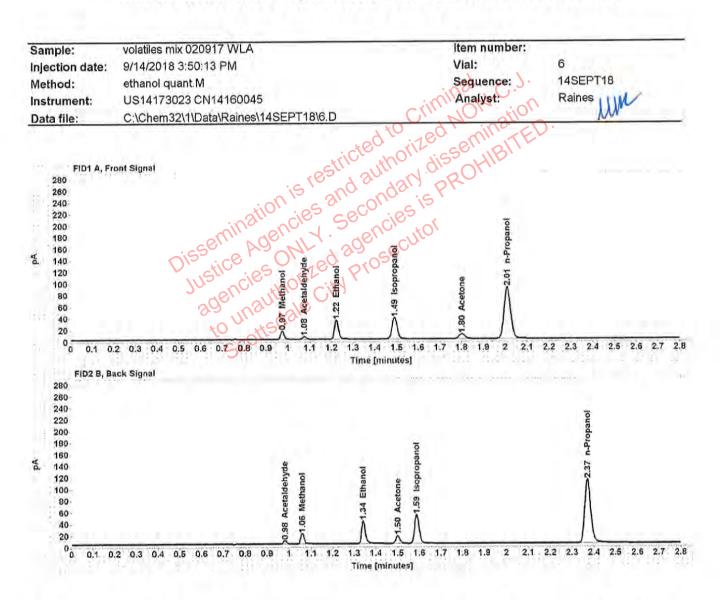


Table 1: FID 1 A	(column DB-ALC1)
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Compound	Amount (g/100mL)	Time (min)	Peak Area
Methanol		0.974	15.814
Acetaldehyde		1.076	4.622
>Ethanol	0.0640	1.222	41.743
Isopropanol		1.491	60.283
Acetone		1.801	14.690
n-Propanol		2.010	182.079

Compound	Time (min)	Peak Area
Acetaldehyde	0.981	5.747
Methanol	1.062	18.870
Ethanol	1.342	48.617
Acetone	1.500	16.720
Isopropanol	1.587	71.642
n-Propanol	2.371	211.651

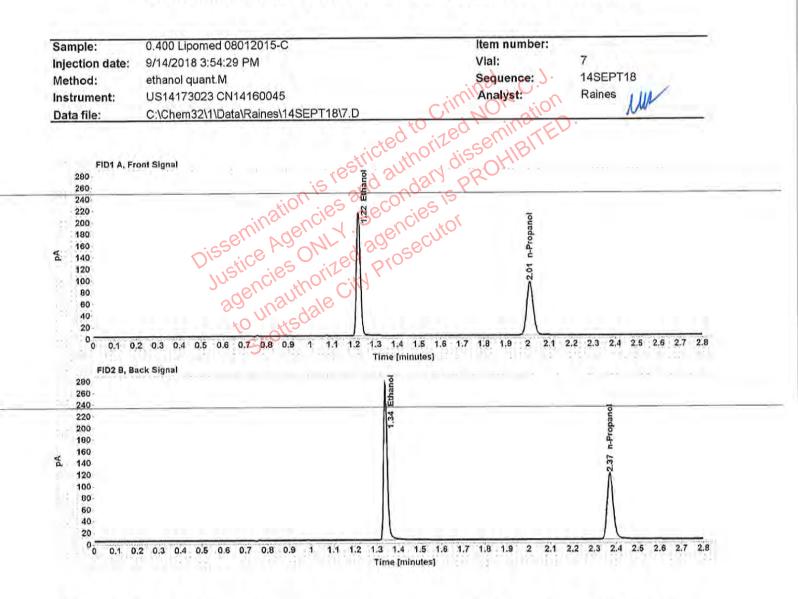


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.3994	1.221	272.016
n-Propanol	· · · · · · · · · · · · · · · · · · ·	2.011	189.076

Compound	Time (min)	Peak Area
Ethanol	1.341	322.054
n-Propanol	2.372	219.959

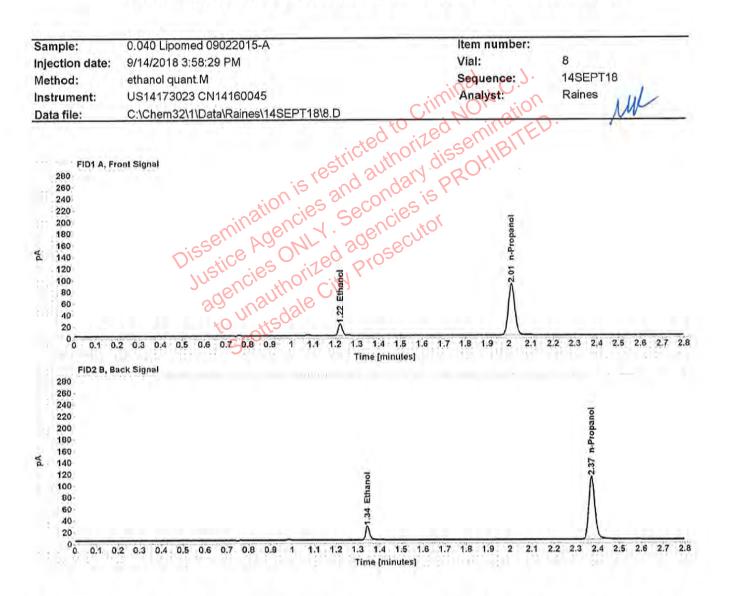


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0394	1.223	25.553
n-Propanol		2.011	181.567

Compound	Time (min)	Peak Area
Ethanol	1.344	29.470
n-Propanol	2.373	210.344

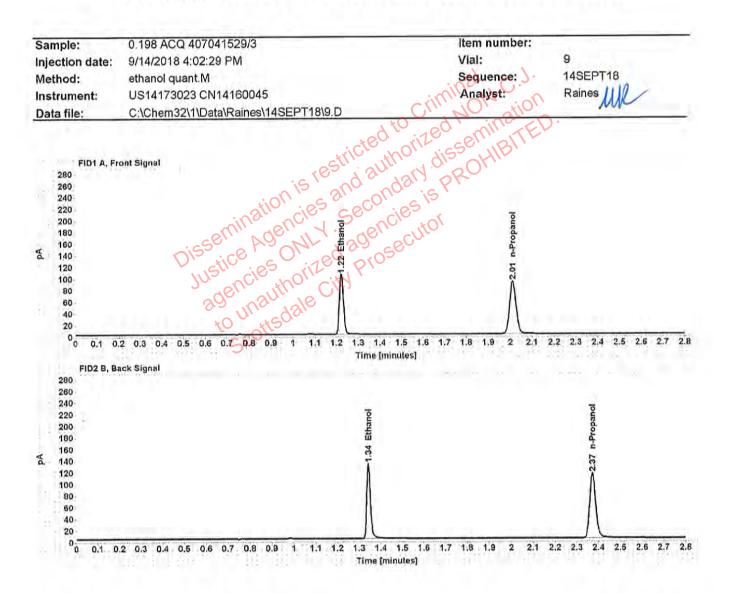


Table 1: FID 1 A (column DB-ALC1)
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Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1987	1.222	133.577
n-Propanol		2.012	186.833

Compound	Time (min)	Peak Area
Ethanol	1.342	157.218
n-Propanol	2.373	216.841

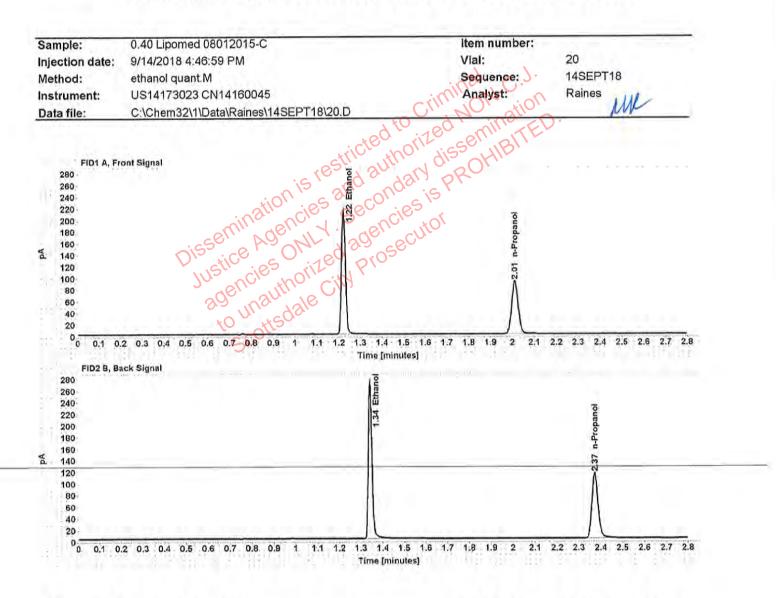


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.4020	1.222	271.817
n-Propanol		2.011	187.737

Compound	Time (min)	Peak Area
Ethanol	1.342	322.701
n-Propanol	2.373	218,293

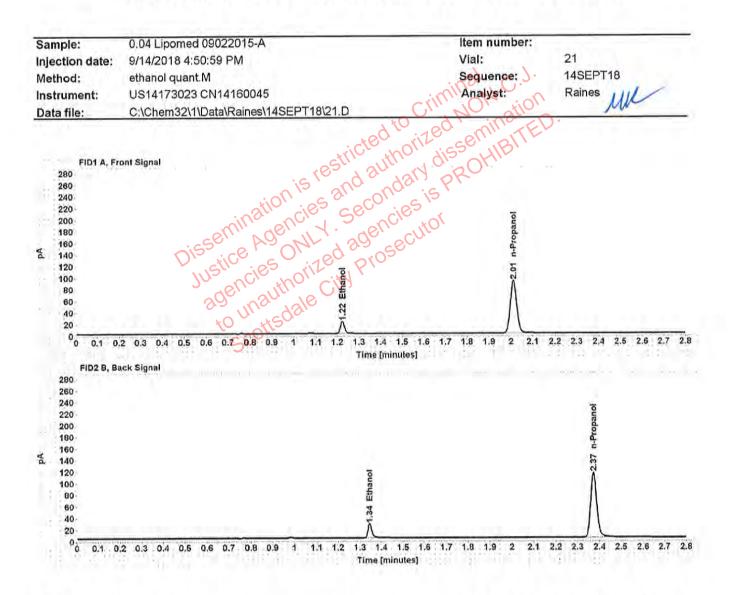


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0396	1.223	26.317
n-Propanol	>	2.012	186.055

Compound	Time (min)	Peak Area
Ethanol	1.344	30.482
n-Propanol	2.373	215.891

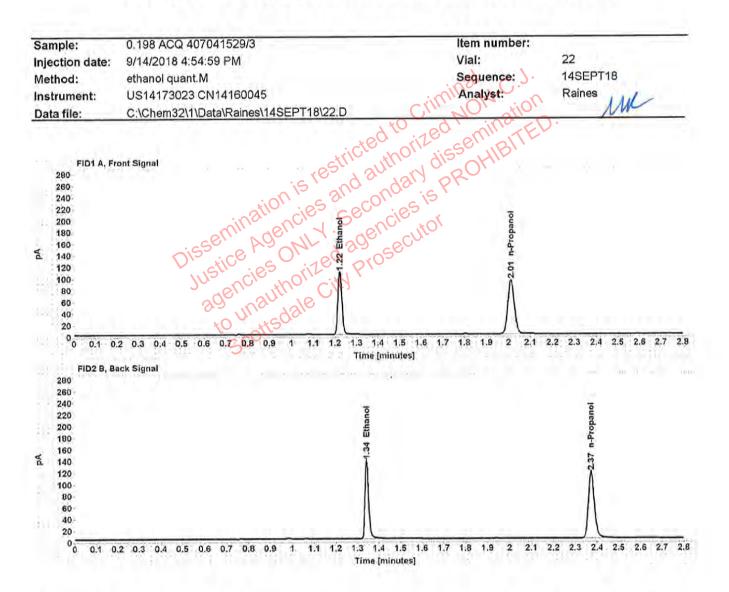


Table 1: FID 1 A	(column DB-ALC1)
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Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.2022	1.223	139.141
n-Propanol	in so die j. – S	2.012	191.208

Compound	Time (min)	Peak Area
Ethanol	1.343	164.039
n-Propanol	2.374	222.363

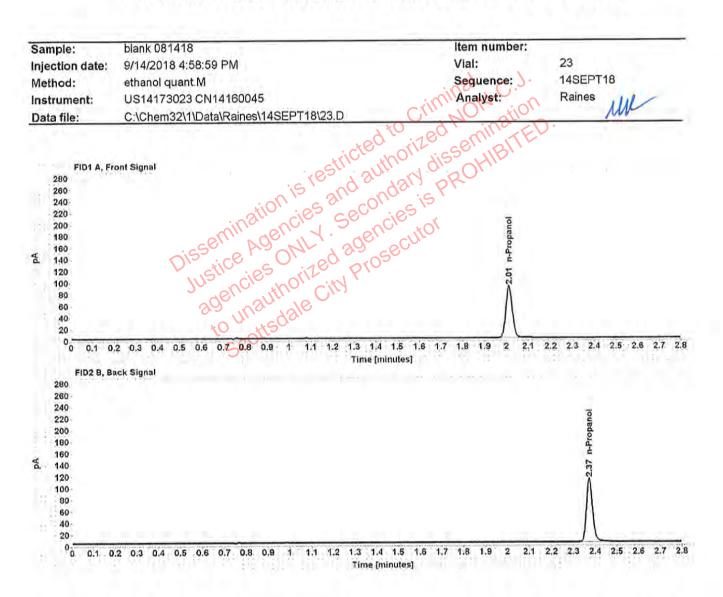


Table 1: FID 1 A (column DB-ALC1)

Compound	Amount	Time	Peak
	(g/100mL)	(min)	Area
n-Propanol	1	2.012	183.142

Compound	Time (min)	Peak Area
n-Propanol	2.373	212.296

Sequence Summary

Page 1 of 1

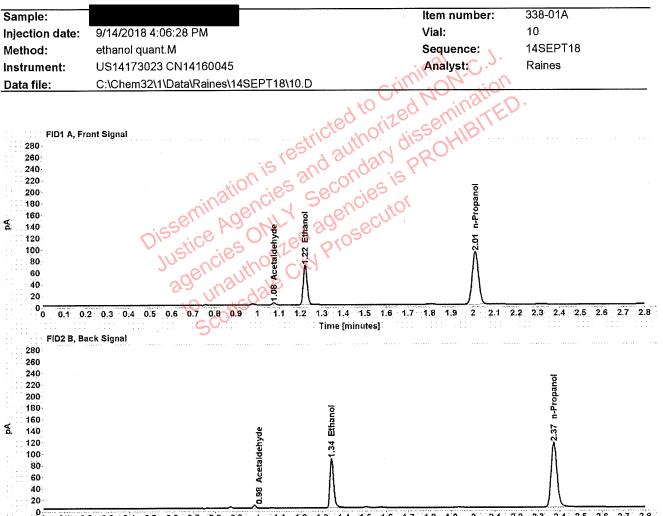
Sequence name: 14SEPT18 Instrument: US14173023 CN14160045 Analyst: Raines				
Vial	Sample	Туре	Item Number	Method
1	0.020 Cerilliant FN03241604	Calibration	NON tion	ethanol quant.M
2	0.100 Cerilliant FN06181501	Calibration	inater	• ethanol quant.M
3	0.200 Cerilliant FN07201502	Calibration	cell BIL	ethanol quant.M
4	0.400 Cerilliant FN11191402	Calibration	SHIP	ethanol quant.M
5	blank 081418	Control	R	ethanol quant.M
6	volatiles mix 020917 WLA	Control .S		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	0,00,00,00,180	Sample	338-01A	ethanol quant.M
11	USU GOS OTL	Sample	338-01A	ethanol quant.M
12	Je contraction Chr.	Sample	1211906	ethanol quant.M
13	and the second	Sample	1211906	ethanol quant.M
14	to tts	Sample	347-01A	ethanol quant.M
15	CCOt I	Sample	347-01A	ethanol quant.M
16		Sample	339-01A	ethanol quant.M
17		Sample	339-01A	ethanol quant.M
18		Sample	340-01A	ethanol quant.M
19		Sample	340-01A	ethanol quant.M
20	0.40 Lipomed 08012015-C	Control		ethanol quant.M
21	0.04 Lipomed 09022015-A	Control		ethanol quant.M
22	0.198 ACQ 407041529/3	Control		ethanol quant.M
23	blank 081418	Control		ethanol quant.M

Scottsdale Police Department Crime Laboratory Summary of Cases

EQUENC	E NAME: 14SEPT18				ANALYST: Raine	
Vials	Test 1 (g/dL)	Test 2 (g/dL)	Mean (g/dL)	Percent Difference*	Absolute Difference (g/dL)*	
10 11	0.1322	0.1325	0.13235	0.11	0.00015	
12 13	0.0990	0.0991	0.09905	0.05	0.00005	
14 15	0.1330	0.1327	0.13285	0.11	0.00015	
16 17	0.0625	0.0629	0.06270	0.32	0.00020	
18 19	0.0680	0.0681	0.06805	0.07	0.00005	

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

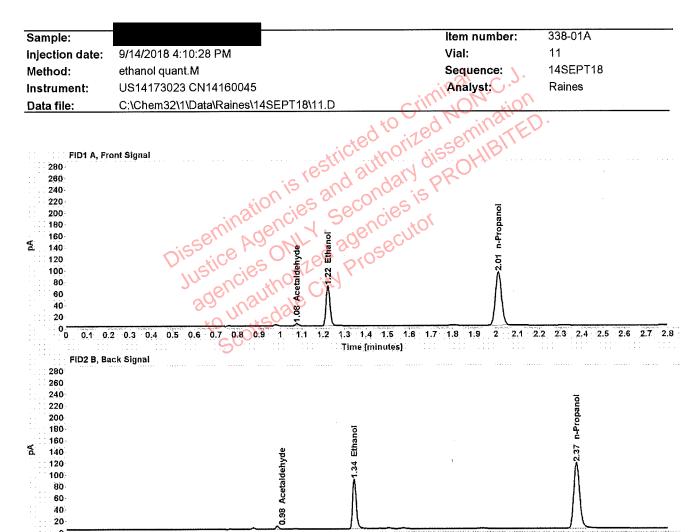
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0 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 Time [minutes]

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde		1.077	3.833
>Ethanol	0.1322	1.223	88.483
n-Propanol		2.012	186.116

Compound	Time (min)	Peak Area	
Acetaldehyde	0.983	4.704	
Ethanol	1.343	104.483	
n-Propanol	2.373	217.193	



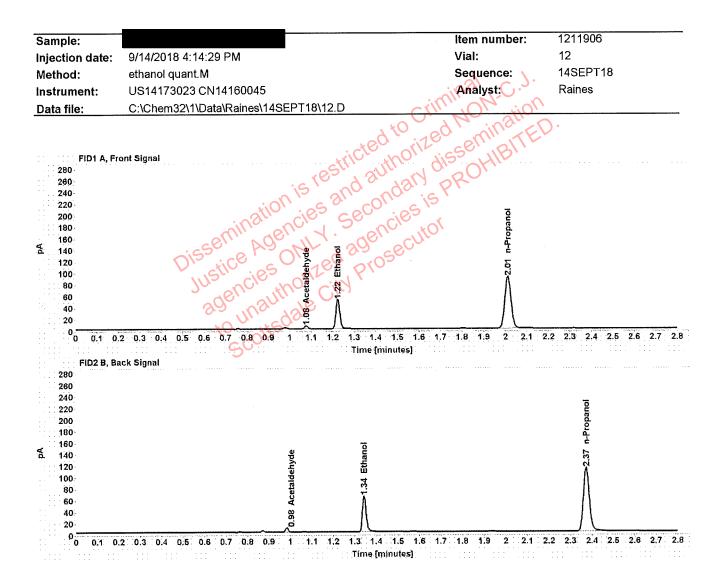
0 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 Time [minutes]

Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde		1.076	3.928
>Ethanol	0.1325	1.223	89.768
n-Propanol		2.012	188.514

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

Compound	Time (min)	Peak Area	
Acetaldehyde	0.983	4.866	
Ethanol	1.343	104.816	
n-Propanol	2.373	220.207	

Case:



Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde		1.076	5.426
>Ethanol	0.0990	1.223	65.318
n-Propanol		2.011	183.650

Compound	Time (min)	Peak Area	
Acetaldehyde	0.983	6.681	
Ethanol	1.343	75.623	
n-Propanol	2.373	213.330	



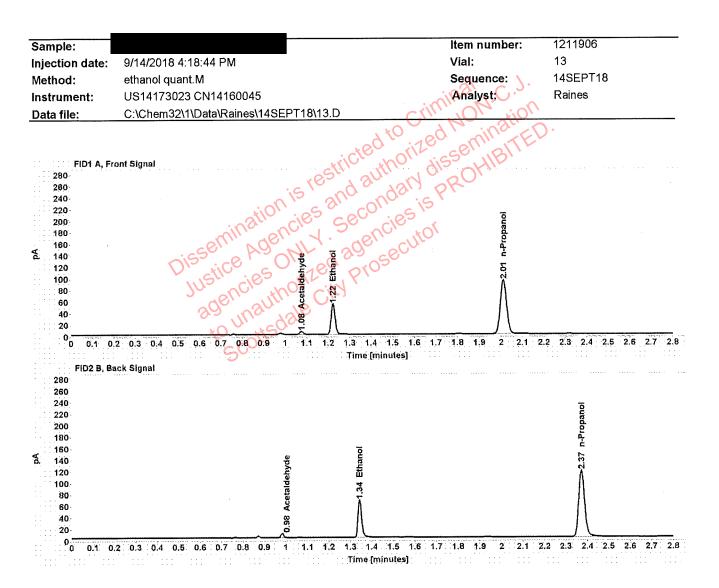
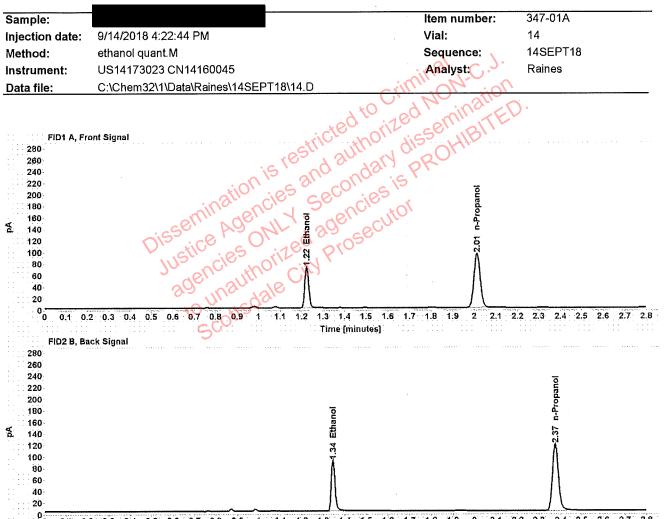


Table 1: FID 1 A (column DB-ALC1)
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Compound	Amount (g/100mL)	Time (min)	Peak Area
Acetaldehyde		1.076	5.379
>Ethanol	0.0991	1.223	67.958
n-Propanol		2.011	190.933

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

Compound	Time (min)	Peak Area
Acetaldehyde	0.983	6.661
Ethanol	1.343	79.106
n-Propanol	2.373	222.018



0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 Time [minutes]

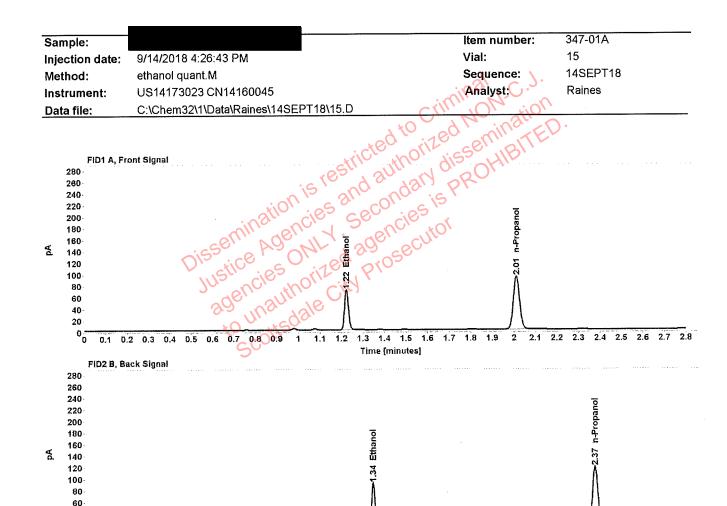
Table 1: FID 1 A (column DB-ALC1)

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1330	1.224	91.746
n-Propanol		2.013	191.944

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

Compound	Time (min)	Peak Area
Ethanol	1.344	107.099
n-Propanol	2.375	224.053

Case:



1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 Time [minutes]

Scottsdale Police Department Crime Lab Volatiles Analysis

Table 1: FI	2 1 A	(column DB-ALC1)	
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Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.1327	1.223	89.894
n-Propanol		2.012	188.483

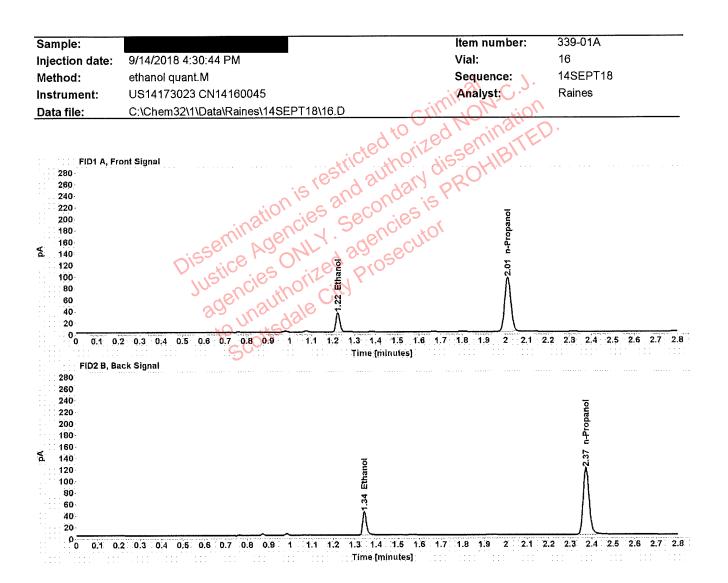
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9

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

2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8

Compound	Time (min)	Peak Area
Ethanol	1.343	104.647
n-Propanol	2.374	219.972



Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0625	1.223	43.104
n-Propanol	*	2.012	192.301

Compound	Time (min)	Peak Area
Ethanol	1.344	49.773
n-Propanol	2.374	223.753

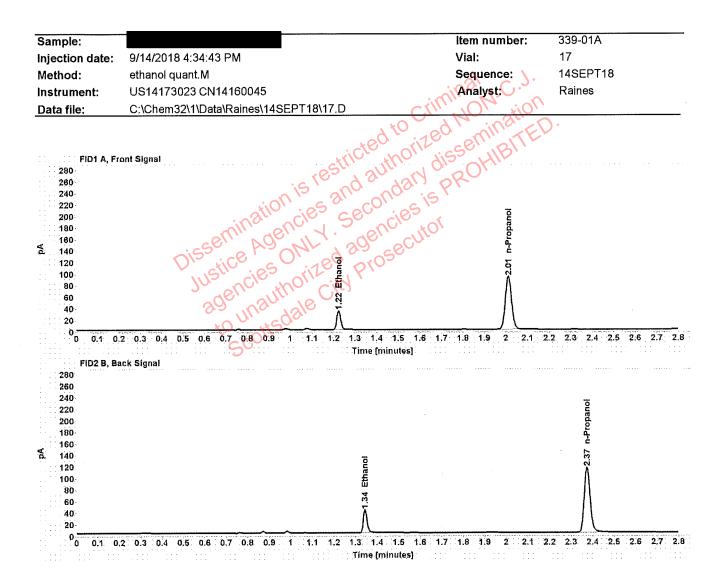
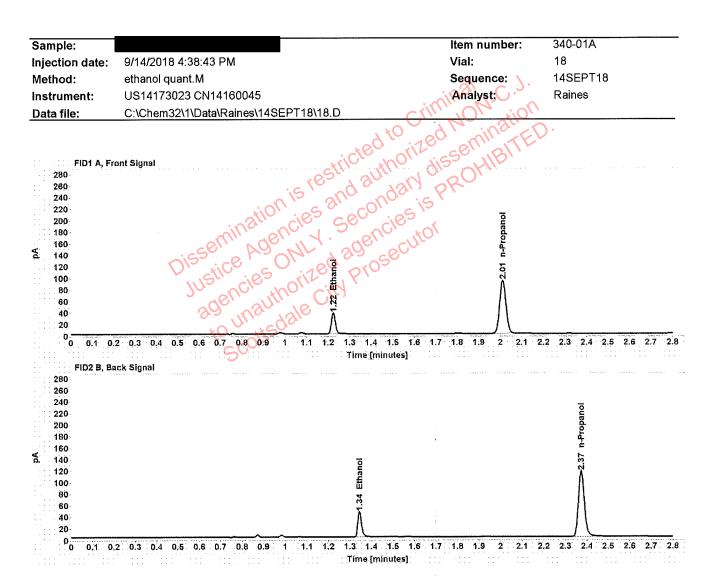


Table 1:	FID1A((column DE	3-ALC1)
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Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0629	1.223	42.318
n-Propanol		2.012	187.796

Compound	Time (min)	Peak Area
Ethanol	1.344	48.820
n-Propanol	2.374	218.131

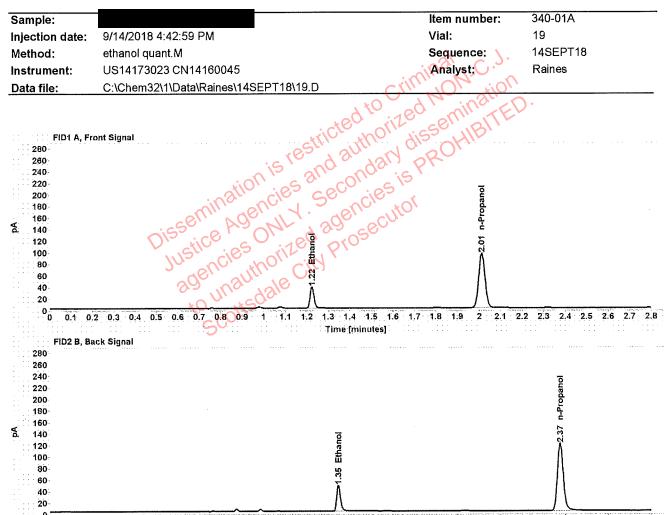




Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0680	1.223	46.106
n-Propanol		2.012	188.996

Compound	Time (min)	Peak Area
Ethanol	1.344	53.238
n-Propanol	2.374	220.046

Case



P 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 Time (minutes)

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

Compound	Amount (g/100mL)	Time (min)	Peak Area
>Ethanol	0.0681	1.224	47.295
n-Propanol		2.013	193.612

Compound	Time (min)	Peak Area
Ethanol	1.345	54.488
n-Propanol	2.375	225.680