



**Houston Forensic Science Center**  
Comparative and Analytical Division - Toxicology

**Headspace GC Maintenance Log**

Instrument: Headspace 3

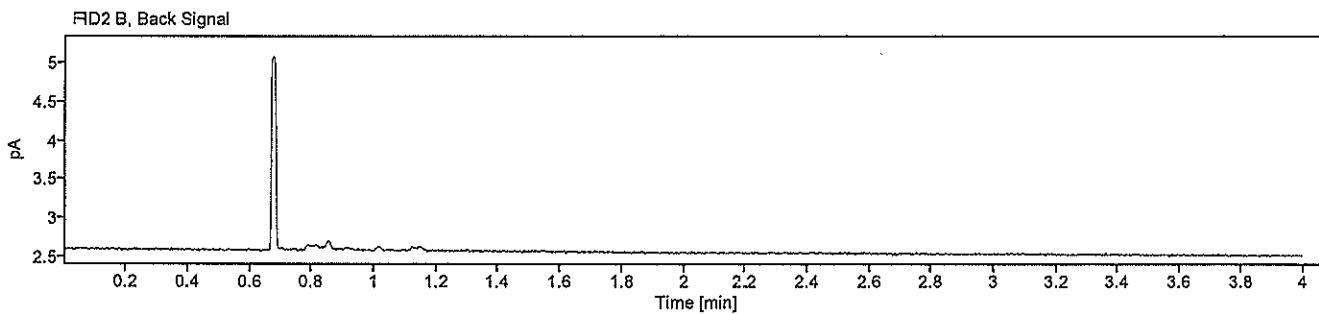
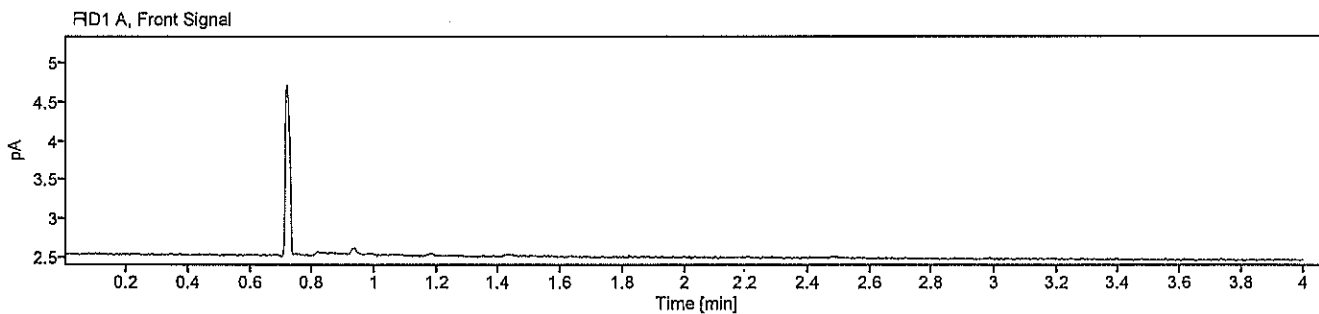
Date	N <sub>2</sub> Tank Pressure	H <sub>2</sub> Water Level	H <sub>2</sub> Pressure	Air Tank Pressure	He Tank Pressure	Air Control	SS	Comments	Signature
						Pass/Fail	Pass/Fail		
01/27/2021	70 1400	yes	70	75 700	70 1300	Pass	Pass	Troubleshooting run (acquisition only)	luk
1/28/2021	70 1400	yes	70	70 2300	70 1250	PASS	PASS	REPLACE AIR TANK. VIAL POSITIONS WERE INCORRECT - SEC. ADJUSTED. SEC. CORRECTED, SAME AS TEST 2. 1/28/2021 AM	DM
<del>_____</del>									
<del>_____</del>									
<del>_____</del>									
									BAM 2/1/2021

Form Complete Date/Signature: Brooke Marshall 2/1/2021

Houston Forensic Science Center, Inc.  
Comparative and Analytical Division - Toxicology  
Volatiles Analysis Chromatograms



Sample Name: Air Control Description: Vial Number: 1  
Instrument: Headspace 3 Acq. Method: VOLATILES.M Injection: 1/27/2021 8:20:18 AM  
Data File: C:\Users\Public\Documents\ChemStation\1\Data\ALC\_20210127\_TEST 2021-01-27 08-11-13\001F0101.D

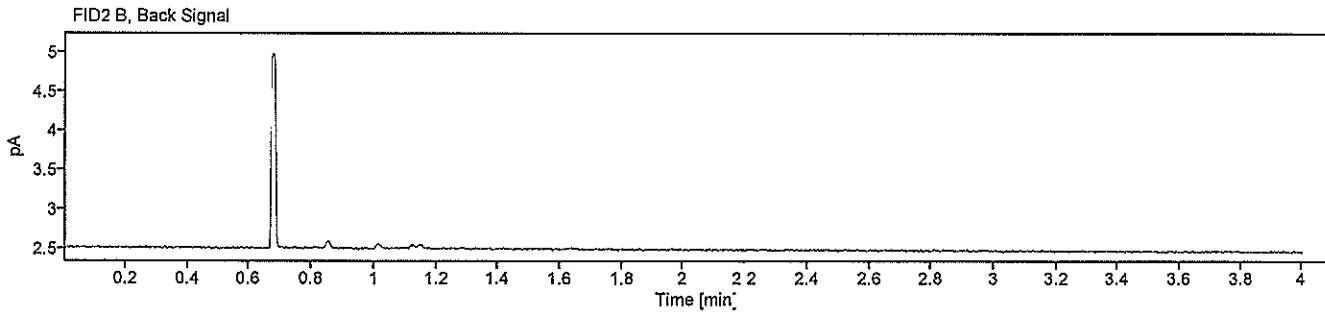
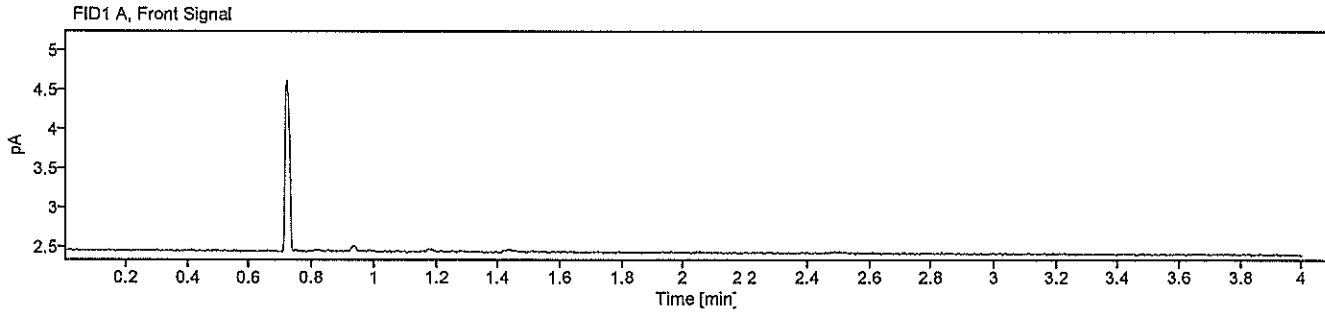


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Volatiles Analysis Chromatograms



Sample Name: Air Control Description: Vial Number: 2  
Instrument: Headspace 3 Acq. Method: VOLATILES.M Injection: 1/27/2021 8:24:48 AM  
Data File: C:\Users\Public\Documents\ChemStation\1\Data\ALC\_20210127\_TEST 2021-01-27 08-11-13\002F0201.D

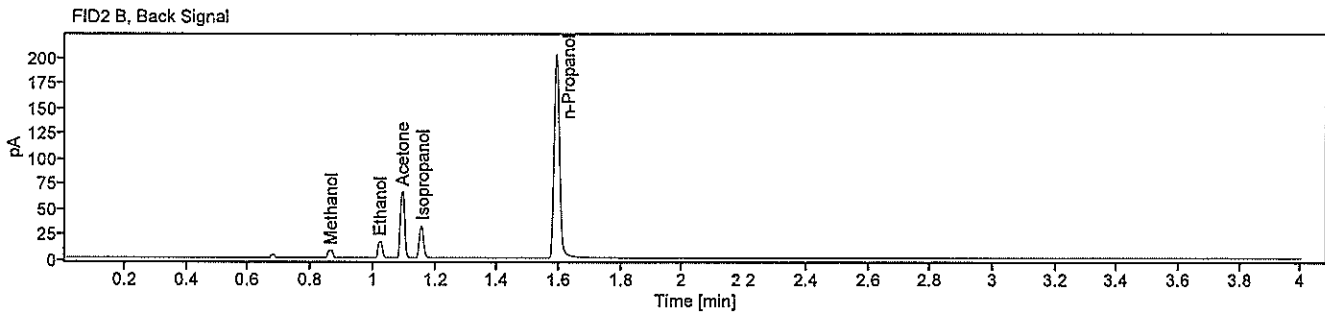
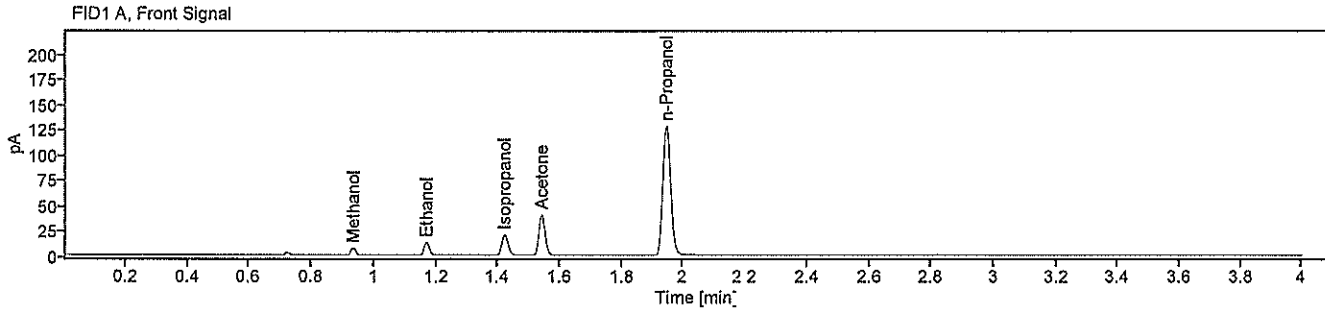


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 Volatiles Analysis Chromatograms



Sample Name: SS Description Lot: FN02242010 Vial Number: 3  
 Instrument: Headspace 3 Acq. Method: VOLATILES.M Injection: 1/27/2021 8:30:40 AM  
 Data File: C:\Users\Public\Documents\ChemStation\1\Data\ALC\_20210127\_TEST 2021-01-27 08-11-13\003F0301.D



Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.14038		0.934	0.934	7.3477	0.0102
Ethanol	0.85129		1.170	1.169	14.4820	0.0101
Isopropanol	0.82933		1.421	1.421	27.8978	0.0099
Acetone	0.86678		1.541	1.541	55.5508	0.0096
n-Propanol	0.86458		1.946	1.946	224.5736	0.0100

Name FID2B

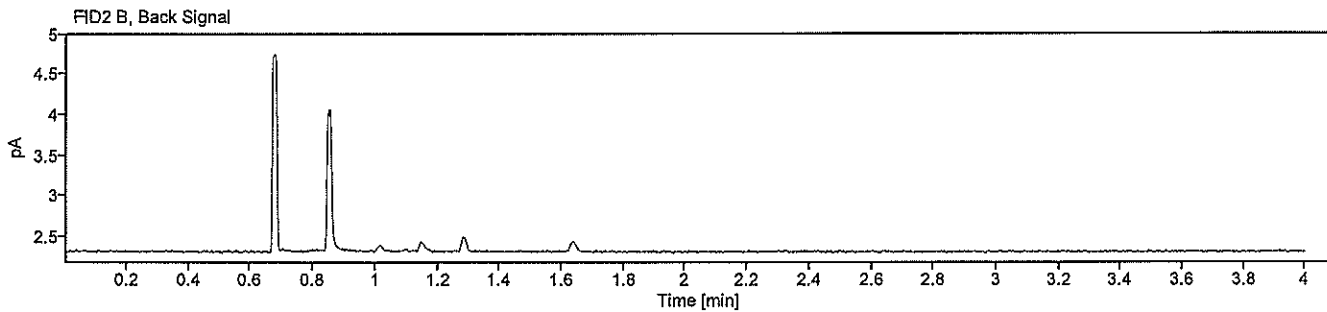
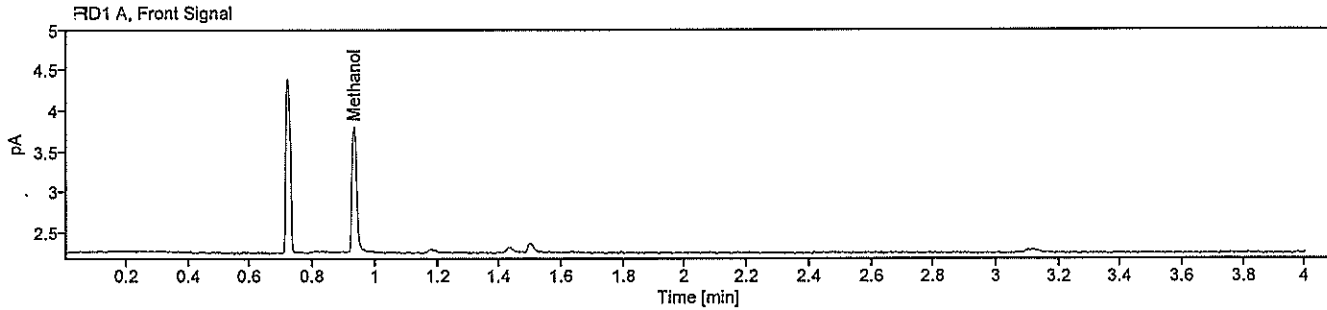
Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.55085		0.865	0.865	8.2138	0.0103
Ethanol	0.97476		1.023	1.023	16.1870	0.0103
Acetone	0.92704	826.035156247802	1.095	1.095	62.4950	0.0098
Isopropanol	0.88585	394.05037865667	1.155	1.157	31.4402	0.0102
n-Propanol	0.81345		1.591	1.591	247.4526	0.0100

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 Volatiles Analysis Chromatograms



Sample Name: Air Control Description: Vial Number: 1  
 Instrument: Headspace 3 Acq. Method: VOLATILES.M Injection: 1/28/2021 3:40:27 PM  
 Data File: C:\Users\Public\Documents\ChemStation\1\Data\ALC\_20210128\_TEST2 2021-01-28 15-31-22\001F0101.D



Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	0.84081		0.933	0.934	1.6689	0.0000

AIR CONTROL DOES NOT MEET ACCEPTANCE CRITERIA.  
 PEAK INTERFERENCE, SS PREPARED AGAIN, SEE TEST 3.

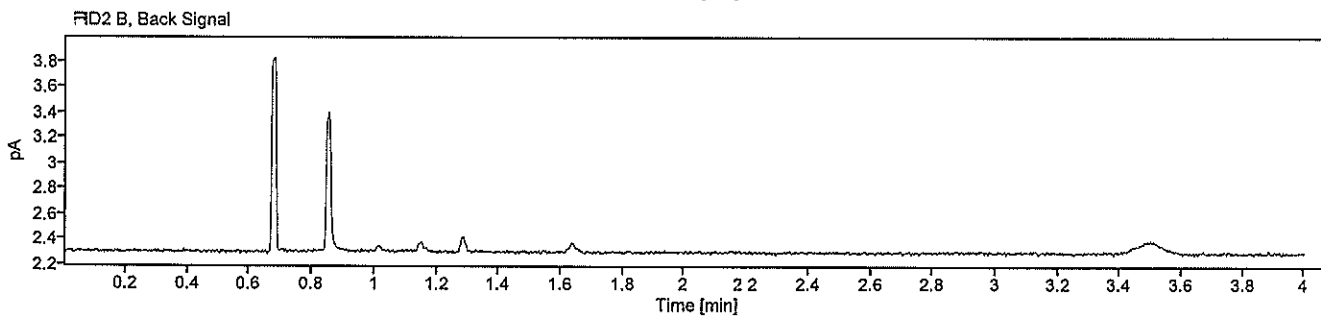
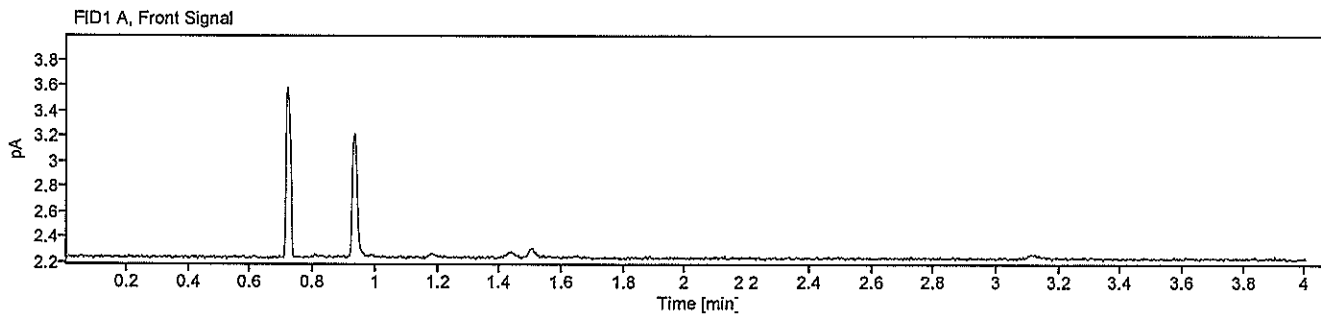
1/28/2021  
 KM

KM

Houston Forensic Science Center, Inc.  
Comparative and Analytical Division - Toxicology  
Volatiles Analysis Chromatograms



Sample Name: Air Control Description: Vial Number: 2  
Instrument: Headspace 3 Acq. Method: VOLATILES.M Injection: 1/28/2021 3:44:58 PM  
Data File: C:\Users\Public\Documents\ChemStation\1\Data\ALC\_20210128\_TEST2 2021-01-28 15-31-22\002F0201.D

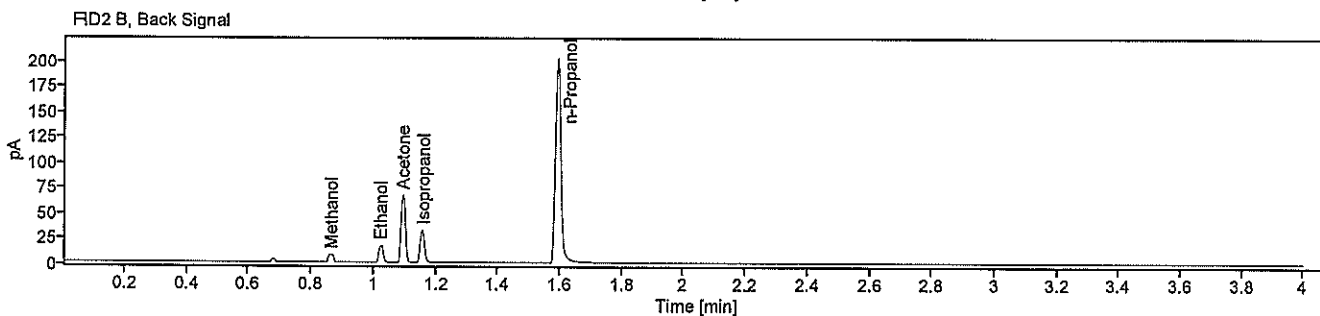
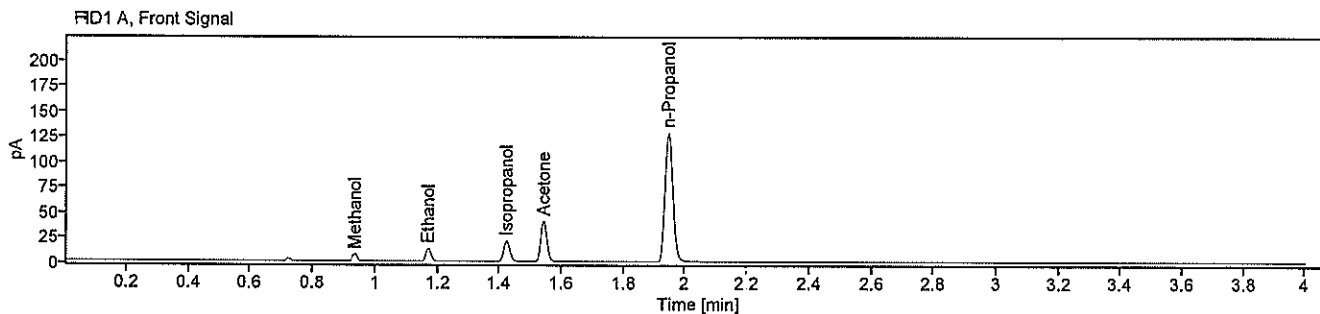


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Houston Forensic Science Center, Inc.  
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 Volatiles Analysis Chromatograms



Sample Name: SS Description: Lot: FN02242010 Vial Number: 3  
 Instrument: Headspace 3 Acq. Method: VOLATILES.M Injection: 1/28/2021 3:50:51 PM  
 Data File: C:\Users\Public\Documents\ChemStation\1\Data\ALC\_20210128\_TEST2 2021-01-28 15-31-22\003F0301.D



Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.05074		0.934	0.934	7.6445	0.0106
Ethanol	0.85258		1.170	1.169	14.9507	0.0104
Isopropanol	0.82486		1.422	1.421	28.3911	0.0101
Acetone	0.86655		1.542	1.541	56.2535	0.0097
n-Propanol	0.85885		1.946	1.946	225.6180	0.0100

Name FID2B

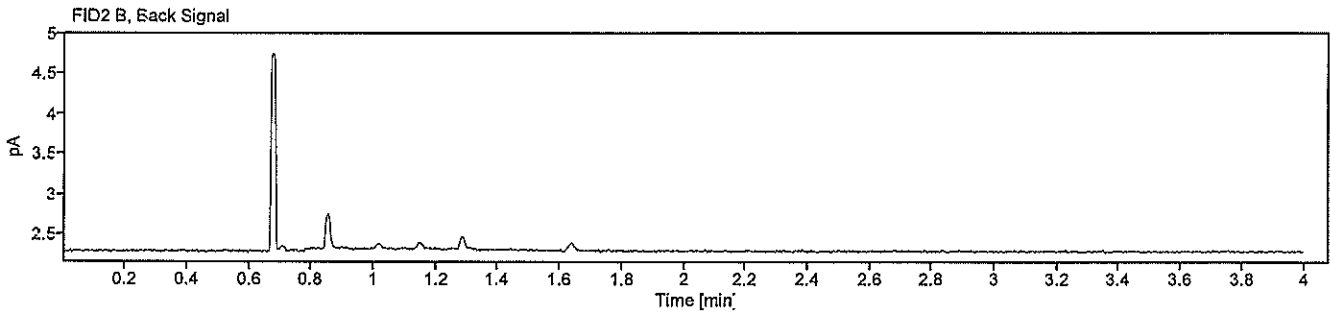
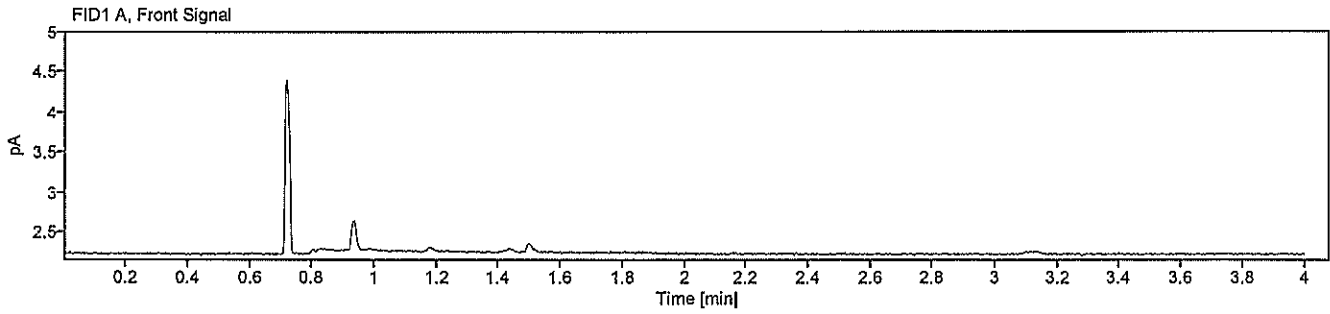
Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.44502		0.865	0.865	8.5809	0.0108
Ethanol	0.95261	379.201820754408	1.024	1.023	16.7091	0.0106
Acetone	0.91489	970.062303930937	1.095	1.095	63.2580	0.0099
Isopropanol	0.88619	463.551038960743	1.156	1.157	32.1047	0.0103
n-Propanol	0.79157		1.592	1.591	248.3231	0.0100

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Volatiles Analysis Chromatograms



Sample Name: Air Control Description: Vial Number: 1  
Instrument: Headspace 3 Acq. Method: VOLATILES.M Injection: 1/28/2021 4:40:35 PM  
Data File: C:\Users\Public\Documents\ChemStation\1\Data\ALC\_20210128\_TEST3 2021-01-28 16-31-31\001F0101.D



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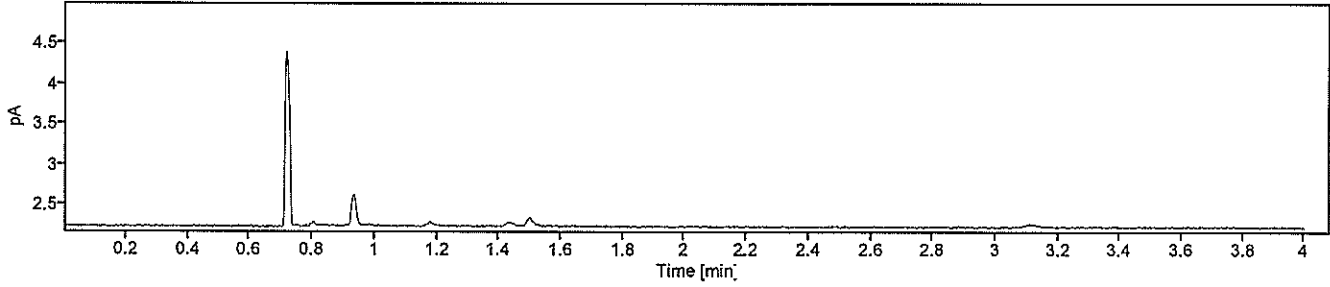


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Volatiles Analysis Chromatograms

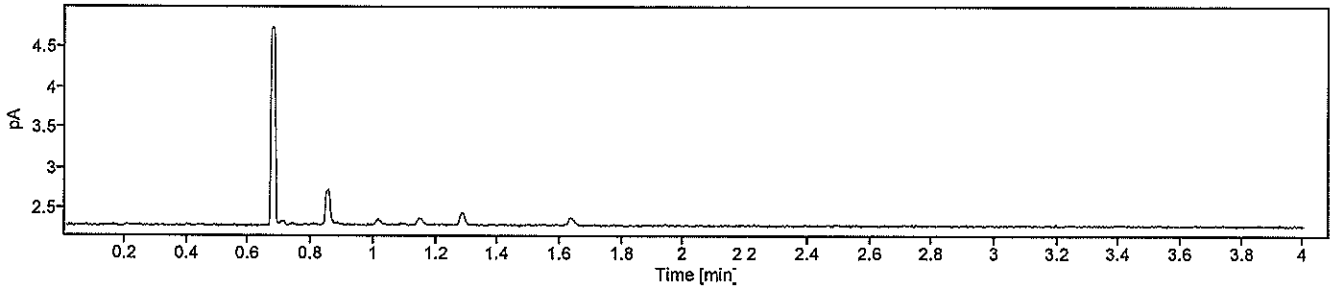


Sample Name: Air Control Description: Vial Number: 2  
Instrument: Headspace 3 Acq. Method: VOLATILES.M Injection: 1/28/2021 4:45:05 PM  
Data File: C:\Users\Public\Documents\ChemStation\1\Data\ALC\_20210128\_TEST3 2021-01-28 16-31-31\002F0201.D

FID1 A, Front Signal



FID2 B, Back Signal

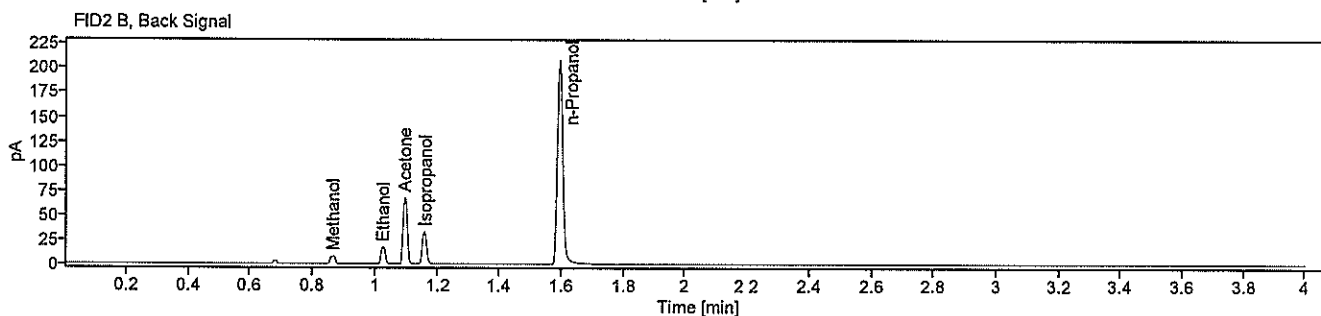
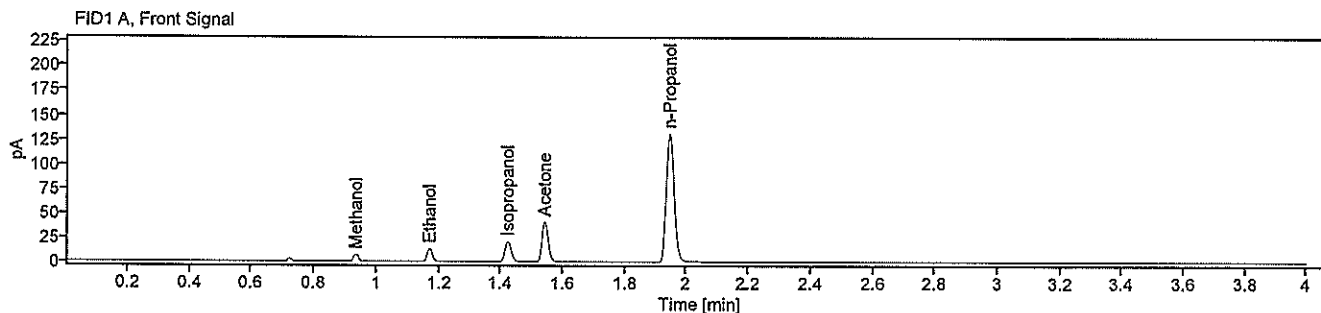


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**Houston Forensic Science Center, Inc.**  
**Comparative and Analytical Division - Toxicology**  
**Volatiles Analysis Chromatograms**



Sample Name: SS Description: Lot: FN02242010 Vial Number: 3  
 Instrument: Headspace 3 Acq. Method: VOLATILES.M Injection: 1/28/2021 4:50:58 PM  
 Data File: C:\Users\Public\Documents\ChemStation\1\Data\ALC\_20210128\_TEST3 2021-01-28 16-31-31\003F0301.D



Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.02443		0.934	0.934	7.7533	0.0105
Ethanol	0.85912		1.171	1.169	15.1524	0.0104
Isopropanol	0.83051		1.422	1.421	28.7813	0.0100
Acetone	0.86870		1.542	1.541	56.5287	0.0096
n-Propanol	0.86394		1.947	1.946	229.0181	0.0100

Name FID2B

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.33486		0.865	0.865	8.6196	0.0106
Ethanol	0.97500		1.025	1.023	16.8880	0.0105
Acetone	0.93507		1.096	1.095	63.3513	0.0097
Isopropanol	0.90087		1.158	1.157	32.3469	0.0102
n-Propanol	0.81054		1.593	1.591	253.1819	0.0100

SS MEETS ACCEPTABLE CRITERIA. 1/29/2021 DM

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