Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

Headspace GC Maintenance Log

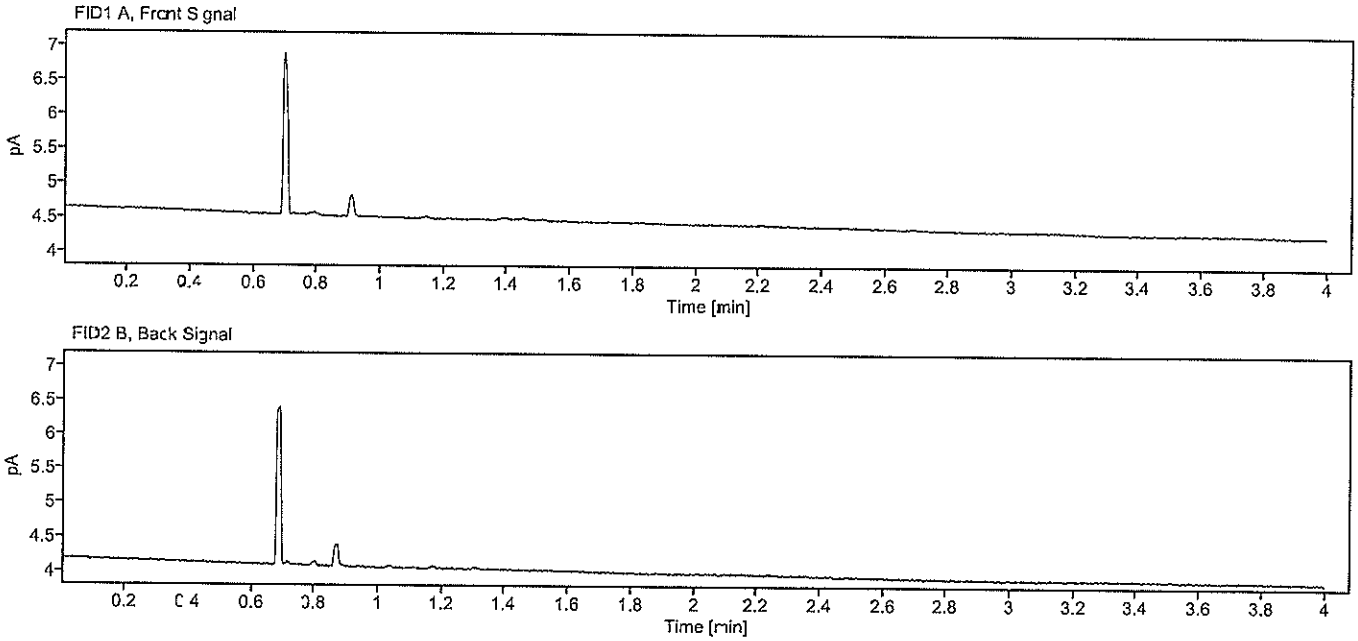
Instrument: Headspace 2

Date	N_2 Tank Pressure	H_2 Pressure / H_2 Water Level	Air Tank Pressure	He Tank Pressure	Air Control Pass/Fail	SS Pass/Fail	Comments	Initials
5/9/2022				aaj 5/9/2022			Full shut down	aaj
5/12/2022	70 / 350	60 / yes	70 / 1700	70 / 400	Pass cm 5/12/2022	Fail	aaj 5/12/22 System turned off on. agilent visit for PM, windows updates and method cycle time updated. Symmetry failed; baking overnight. cm 5/12/2022	aaj
	7	IIM 05/13/2022		400				
05/13/2022	70 / 2500	70 / yes	70 / 1700	70 / 400	pass	pass	changed N_2 tank. Verification run.	XIM
				BAM 5/16/2022				

Signature: Brooke Mendenhall **Date Completed:** 5/16/2022

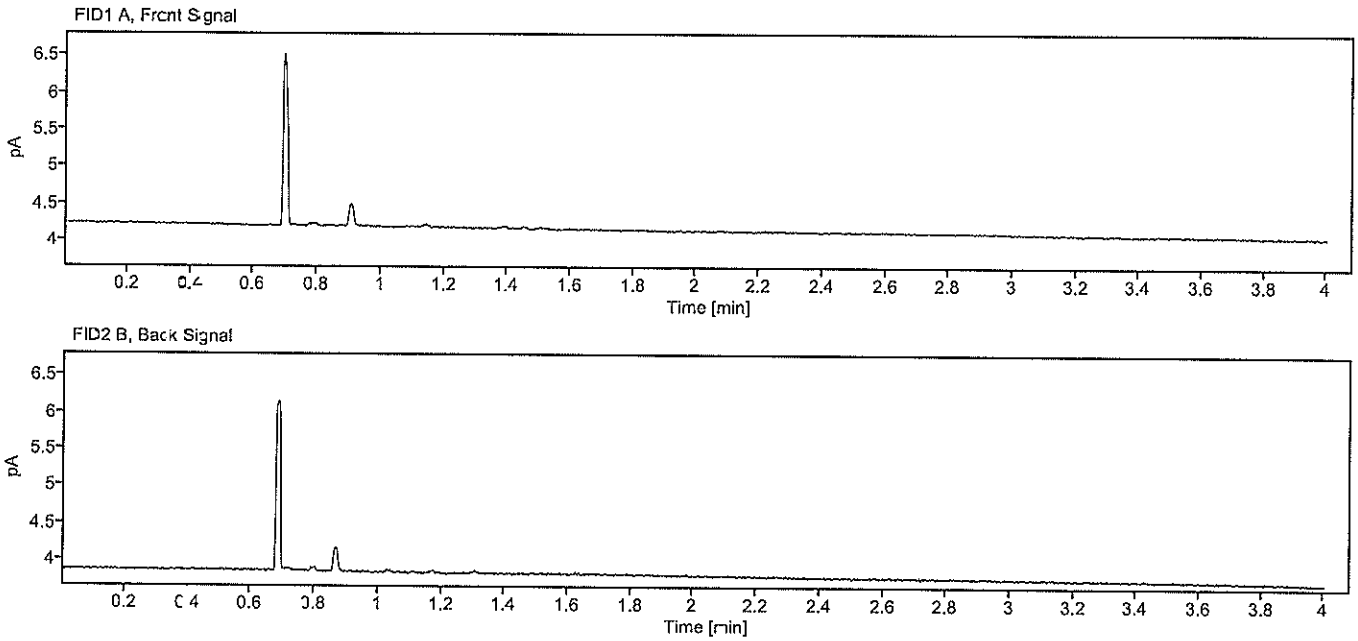
Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

Sample Name	Air Control		Description:	Vial Number:	1
Instrument:	Headspace 2	Acq. Method:	ALC.M	Injection:	5/12/2022 3:22:58 PM
Data File:	C:\Users\Public\Documents\ChemStation\2\Data\ALC_20220512_TEST 2022-05-12 15-13-54\001F0101.D				



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

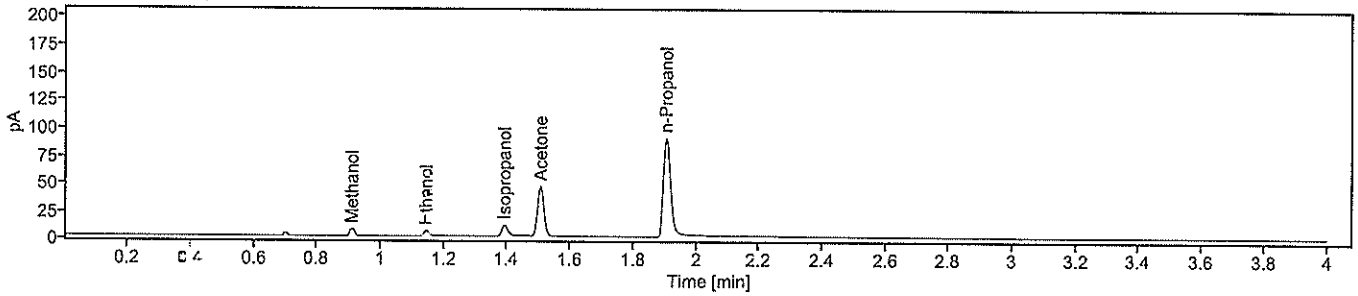
Sample Name	Air Control		Description:	Vial Number:	2
Instrument:	Headspace 2	Acq. Method:	ALC.M	Injection:	5/12/2022 3:27:58 PM
Data File:	C:\Users\Public\Documents\ChemStation\2\Data\ALC_20220512_TEST 2022-05-12 15-13-54\002F0201.D				



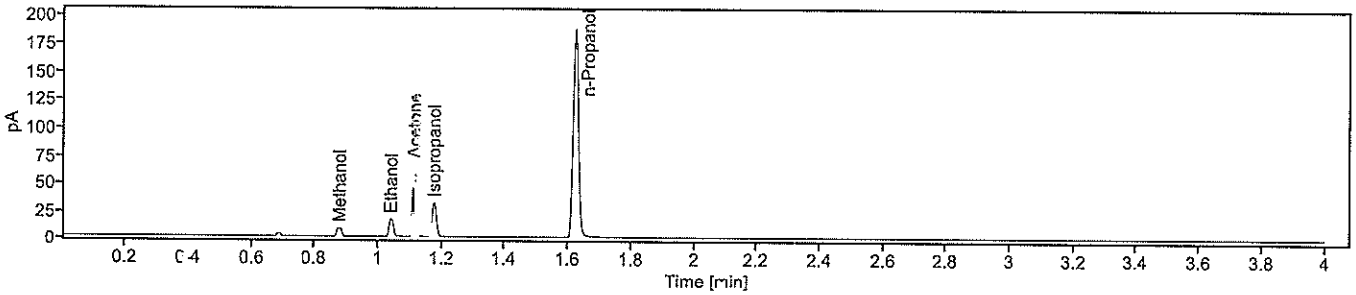
Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

Sample Name: SS Description: Lot: FN02242010 Vial Number: 3
Instrument: Headspace 2 Acq. Method: ALC.M Injection: 5/12/2022 3:33:20 PM
Data File: C:\Users\Public\Documents\ChemStation\2\Data\ALC_20220512_TEST 2022-05-12 15-13-54\003F0301.D

FID1 A, Front Signal



FID2 B, Back Signal



Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	0.83999		0.909	0.908	7.5009	0.0140
Ethanol	0.42281		1.144	1.138	7.9242	0.0072
Isopropanol	0.71933		1.390	1.385	13.0684	0.0062
Acetone	0.92587		1.506	1.503	61.5660	0.0142
n-Propanol	0.56109		1.905	1.900	169.1375	0.0100

Name FID2B

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.17784		0.877	0.877	7.9323	0.0112
Ethanol	0.86048	868.585644345086	1.040	1.038	15.6249	0.0107
Acetone	0.91095	3613.09644516293	1.113	1.112	60.8274	0.0108
Isopropanol	0.87290		1.176	1.176	29.7527	0.0107
n-Propanol	0.88177		1.623	1.621	220.9091	0.0100

Etoh peak symmetry fails on FID1. em 5/13/2022

em

method: C:\USERS\PUBLIC\DOCUMENTS\CHEMSTATION\2\METHODS\ALC.M
Modified on: 5/12/2022 at 1:43:24 PM

Method Audit Trail

Operator : SYSTEM
Date : 2/15/2022 9:22:44 AM
Change Info: This method was created at 2/15/2022 9:22:44 AM and based on method 'C:\Users\Public\Documents\ChemStation\2\Methods\def_GC.M'

Operator : SYSTEM
Date : 2/15/2022 9:22:46 AM
Change Info: Method saved. User comment: ""

Operator : SYSTEM
Date : 2/15/2022 9:23:52 AM
Change Info: Method saved. User comment: ""

Operator : Andrea S Gooden, M.S.
Date : 2/15/2022 10:15:10 AM
Change Info: Method saved. User comment: ""

Operator : Toxicology
Date : 2/15/2022 12:08:14 PM
Change Info: Method saved. User comment: "Rebuilt ALC.M using the VOLATILES.M from the upgrade 12/30/2020 and updated method calibration table with numbers from ALC_20220210_JR. -BAM 2/15/2022"

Operator : Toxicology
Date : 2/15/2022 1:38:00 PM
Change Info: Method saved. User comment: "Updating the event_FID table to match current approved ALC.M method. - AAJ 02/15/2022"

Operator : Melissa Rodriguez M.S.
Date : 2/22/2022 3:03:26 PM
Change Info: Method saved. User comment: "Changed 7697A Parameters action for Leak Detected to continue, to match parameters of the instrument before system upgrade when previously located in Manage Rules and Alerts. Does not affect data acquisition. "

Operator : Andrea S Gooden, M.S.
Date : 3/16/2022 8:52:43 AM
Change Info: Method saved. User comment: "Updated the method comment to reference the date the instrument was suitable for casework after verification from February 15, 2022 to February 18, 2022. -ASG 3/16/2022"

Operator : Ashley Ann Johnson, M.S.
Date : 5/12/2022 1:43:24 PM
Change Info: Method saved. User comment: "Updated cycle time to 5min. "

Houston Forensic Science Center, Inc.
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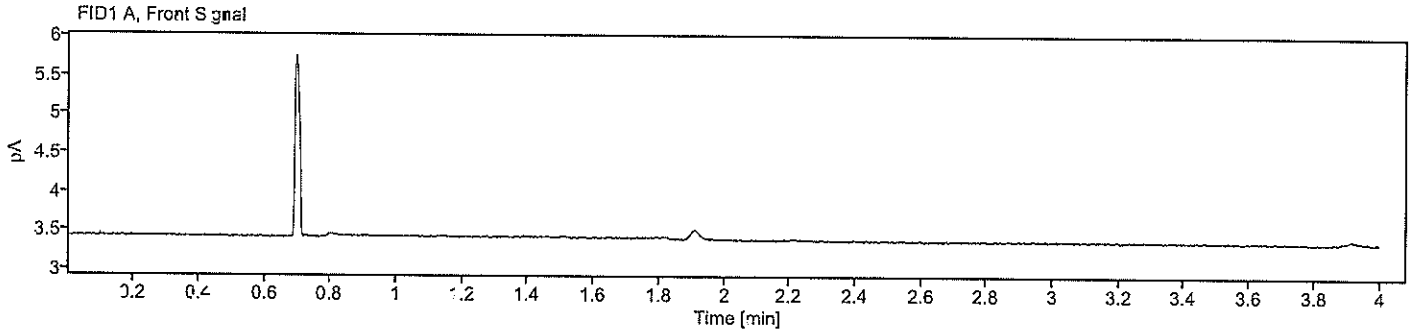
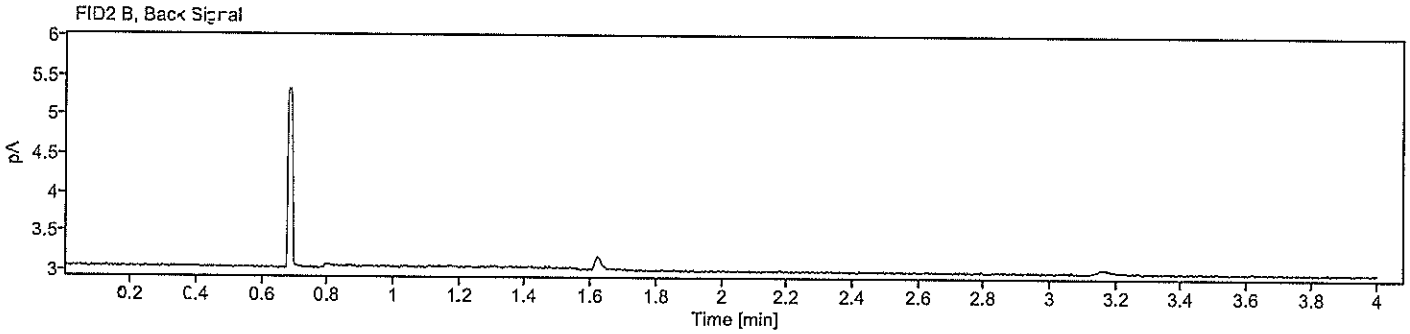
Sample Name: Air Control Description: Vial Number: 1
Instrument: Headspace 2 Acq. Method: ALC.M Injection: 5/13/2022 8:56:19 AM
Data File: C:\Users\Public\Documents\ChemStation\2\Data\ALC_20220513_TEST 2022-05-13 08-47-15\001F0101.D





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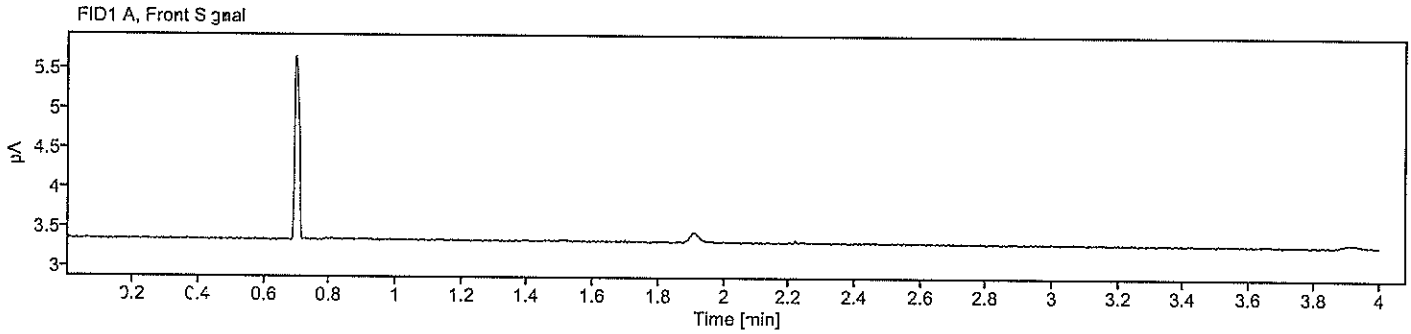
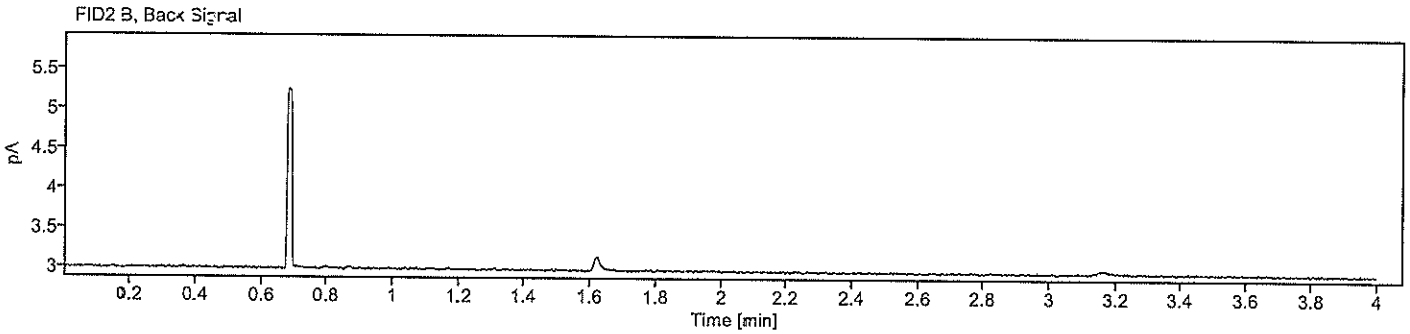
Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

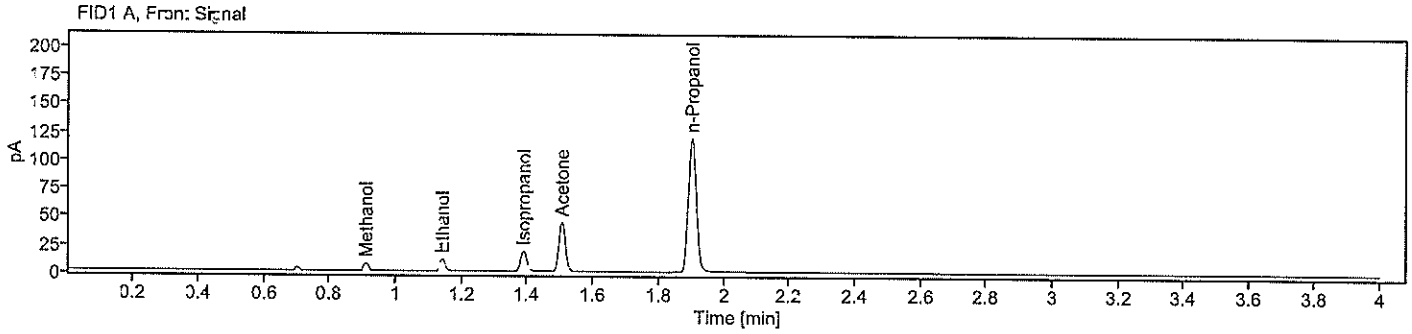
Sample Name: Air Control Description: Vial Number: 2
Instrument: Headspace 2 Acq. Method: ALC.M Injection: 5/13/2022 9:01:19 AM
Data File: C:\Users\Public\Documents\ChemStation\2\Data\ALC_20220513_TEST 2022-05-13 08-47-15\002F0201.D

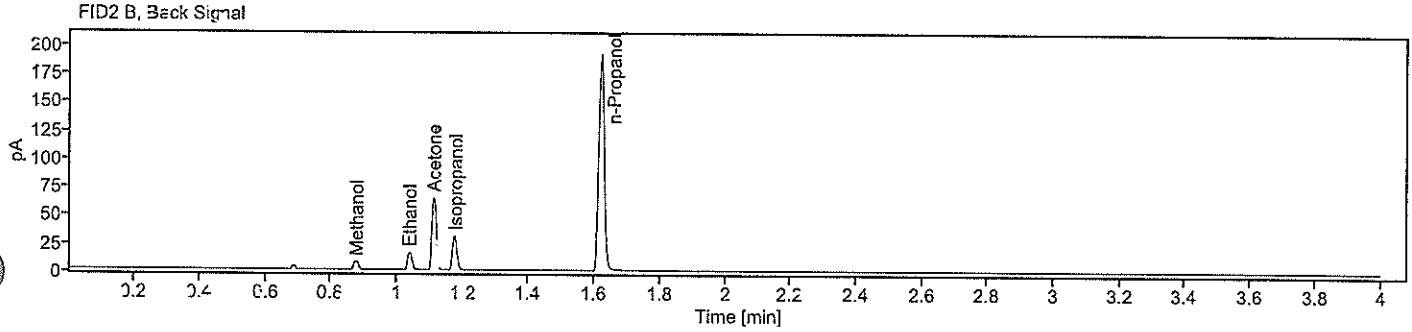




Houston Forensic Science Center, Inc.
Comparative and Analytical Division - Toxicology
Volatiles Analysis Chromatograms

Sample Name: SS Description: Lot: FN07272001 Vial Number: 3
Instrument: Headspace 2 Acq. Method: ALC.M Injection: 5/13/2022 9:06:42 AM
Data File: C:\Users\Public\Documents\ChemStation\2\Data\ALC_20220513_TEST 2022-05-13 08-47-15\003F0301.D





Name FID1A

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.01016		0.909	0.908	7.1529	0.0109
Ethanol	0.78321		1.141	1.138	12.4231	0.0093
Isopropanol	0.80527	143.00252139695	1.387	1.385	25.3215	0.0097
Acetone	0.92218	349.239414028185	1.505	1.503	61.0351	0.0115
n-Propanol	0.86167		1.902	1.900	207.1029	0.0100

Name FID2B

Compound	Peak Symmetry	Peak to Valley Ratio	RT [min]	Expected RT [min]	Area	Concentration [g/100 mL]
Methanol	1.30469		0.877	0.877	7.5328	0.0105
Ethanol	0.90802		1.038	1.038	14.7818	0.0099
Acetone	0.9[illegible]542		1.112	1.112	59.5712	0.0104
Isopropanol	0.88160		1.175	1.176	28.8413	0.0102
n-Propanol	0.9[illegible]944		1.621	1.621	224.6245	0.0100

KM