Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 600 Liquid Processor/Dilutor Serial Number: ML600HC11378

Volatiles Quality Assurance Controls **Run Date(s): 8/29/18**

Calibration Date: 08/22/18

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0778 g/100cc
					0.0806 g/100cc
					g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.2043 g/100cc
					g/100cc
					g/100cc

Multi-Component mixture:	**Exp date: Sept 2020**		**Lot #**	FN06041502	OK
Curve Fit:		**Column 1**	0.10000	**Column2**	0.99994

Ethanol Calibration Reference Material

Calibrator level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Column 1	Column 2	Precision	Mean
0.050	Jul-19	FN06231406	0.050	0.045 - 0.055	0.0502	0.0521	0.0019	0.0511
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Aug-21	FN08101601	0.100	0.090 - 0.110	0.1002	0.0996	0.0006	0.0999
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1996	0.1969	0.0027	0.1982
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.2997	0.3009	0.0012	0.3003
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Sep-21	FN07031402	0.500	0.450 - 0.550	0.5003	0.5006	0.0003	0.5004

Aqueous Controls

Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	May-22	FN04171701	0.08000	0.076 - 0.084	0.081 g/100cc

~Any information on this document can be changed for laboratory use, except for the precision and mean determination fomulas.

Issued: 4/22/2015

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

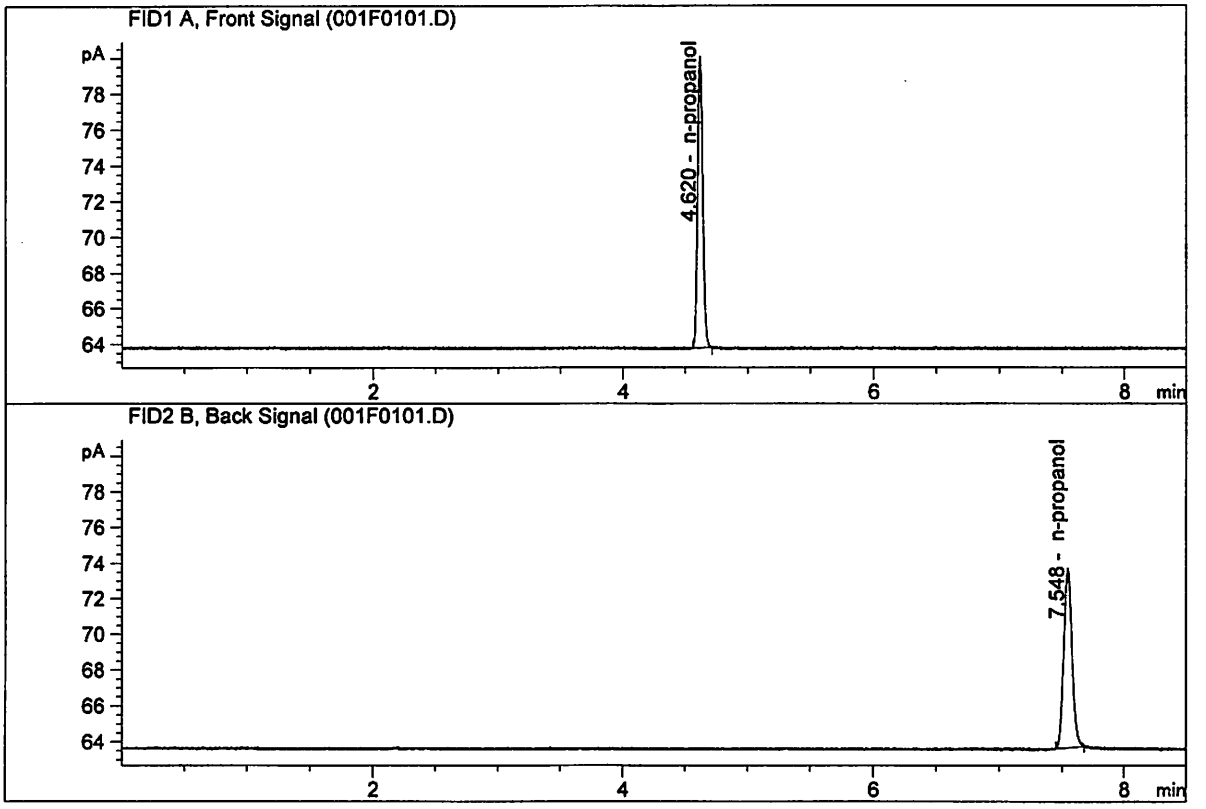
JC

Worklist: 2671

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2018-4212	1	124796	Alcohol Analysis
M2018-4214	1	124798	Alcohol Analysis
M2018-4215	1	124799	Alcohol Analysis
M2018-4231	3	124861	Alcohol Analysis
M2018-4254	1	124901	Alcohol Analysis
M2018-4255	1	124905	Alcohol Analysis
M2018-4257	2	124925	Alcohol Analysis
M2018-4258	1	124926	Alcohol Analysis
M2018-4271	1	124945	Alcohol Analysis
M2018-4292	1	125073	Alcohol Analysis
M2018-4309	1	125191	Alcohol Analysis
M2018-4309	2	125195	Alcohol Analysis
M2018-4309	3	125199	Alcohol Analysis
M2018-4310	1	125200	Alcohol Analysis
M2018-4311	1	125201	Alcohol Analysis
M2018-4312	1	125202	Alcohol Analysis
M2018-4313	1	125206	Alcohol Analysis
P2018-2316	1	124207	Alcohol Analysis
P2018-2393	1	124800	Alcohol Analysis

ISP Forensic Services Blood Alcohol Report

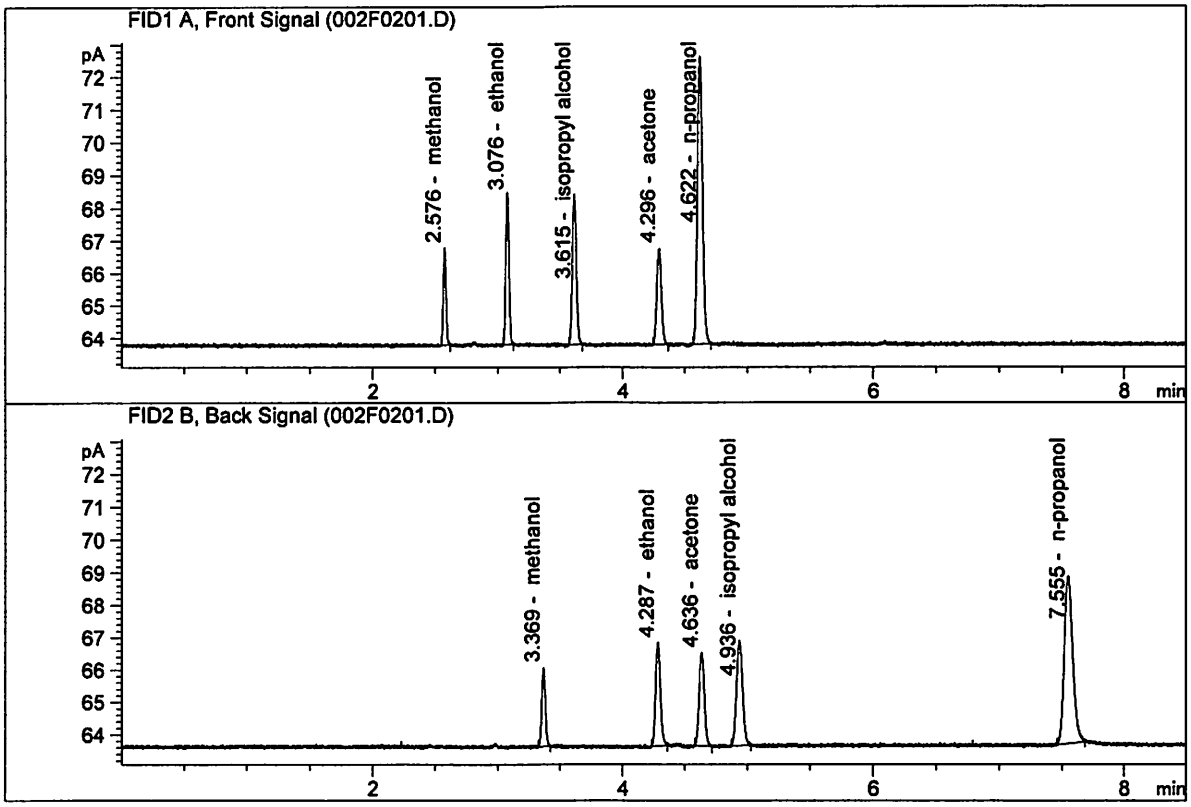
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	46.44567	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.95900	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041502
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.27804	0.1757	g/100cc
2.	Ethanol	Column 2:	8.55224	0.1787	g/100cc
3.	n-Propanol	Column 1:	24.83043	1.0000	g/100cc
4.	n-Propanol	Column 2:	24.88921	1.0000	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 29 Aug 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0766	0.0772	0.0006	0.0769	0.0778	
(g/100cc)	0.0785	0.0791	0.0006	0.0788		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: ML600HC11378

Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.077	**0.073**	**0.081**	**0.004**

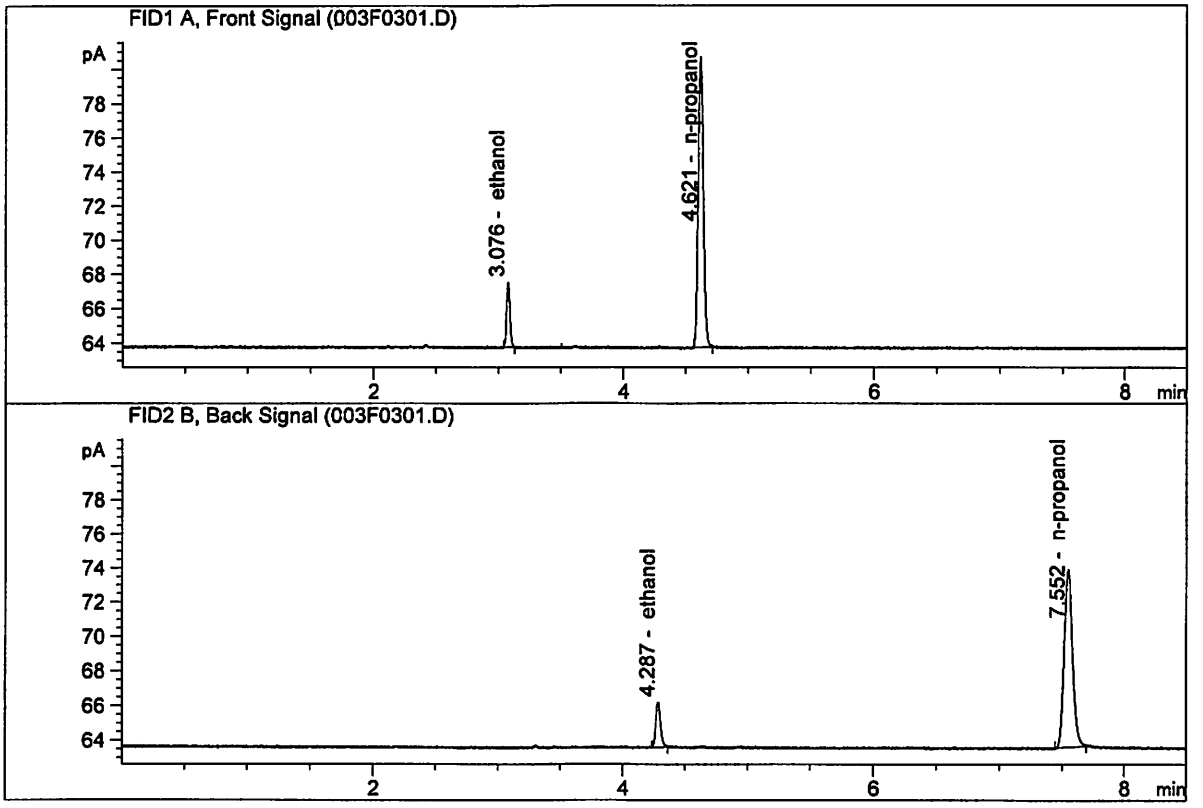
Reported Result

0.077

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

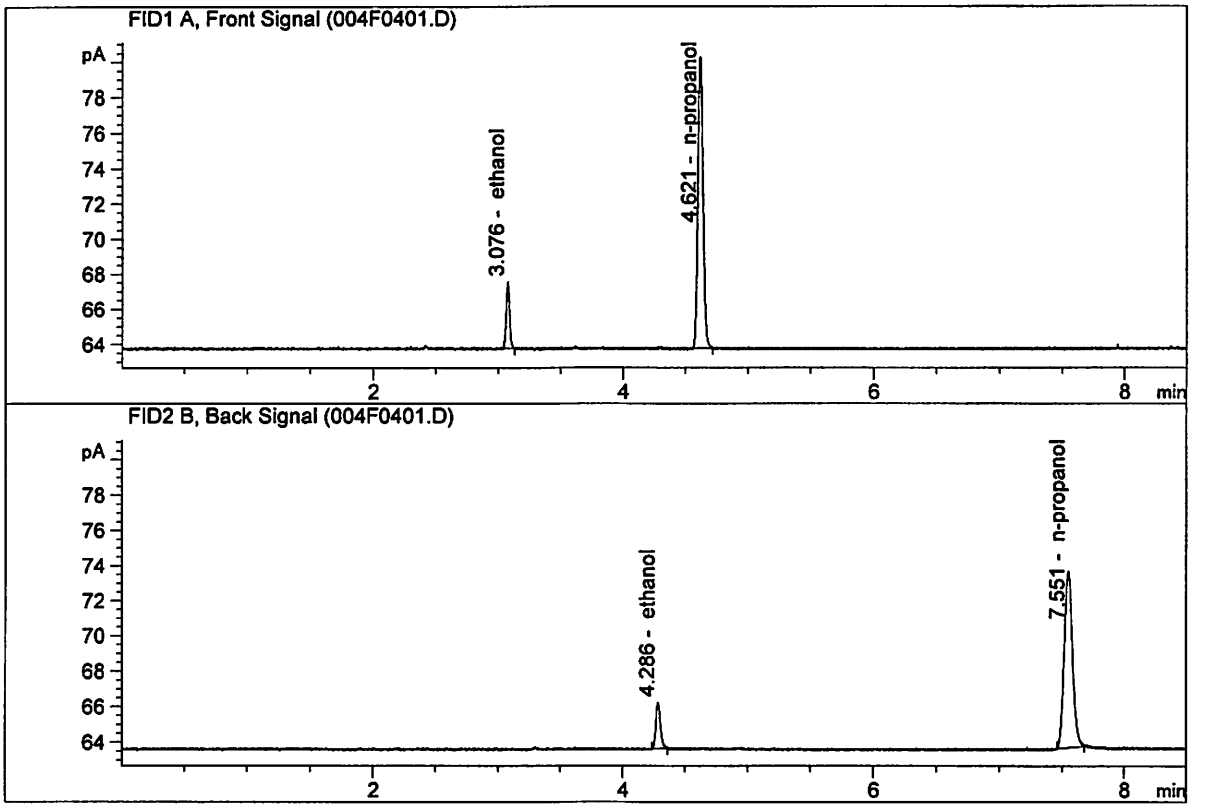


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.96931	0.0766	g/100cc
2.	Ethanol	Column 2:	7.14567	0.0772	g/100cc
3.	n-Propanol	Column 1:	48.15976	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.59843	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.96935	0.0785	g/100cc
2.	Ethanol	Column 2:	7.05431	0.0791	g/100cc
3.	n-Propanol	Column 1:	47.04347	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.71206	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701 **Analysis Date(s): 29 Aug 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0826	0.0831	0.0005	0.0828	0.0816	
(g/100cc)	0.0807	0.0803	0.0004	0.0805		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: ML600HC11378

Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.081	**0.076**	**0.086**	**0.005**

Reported Result

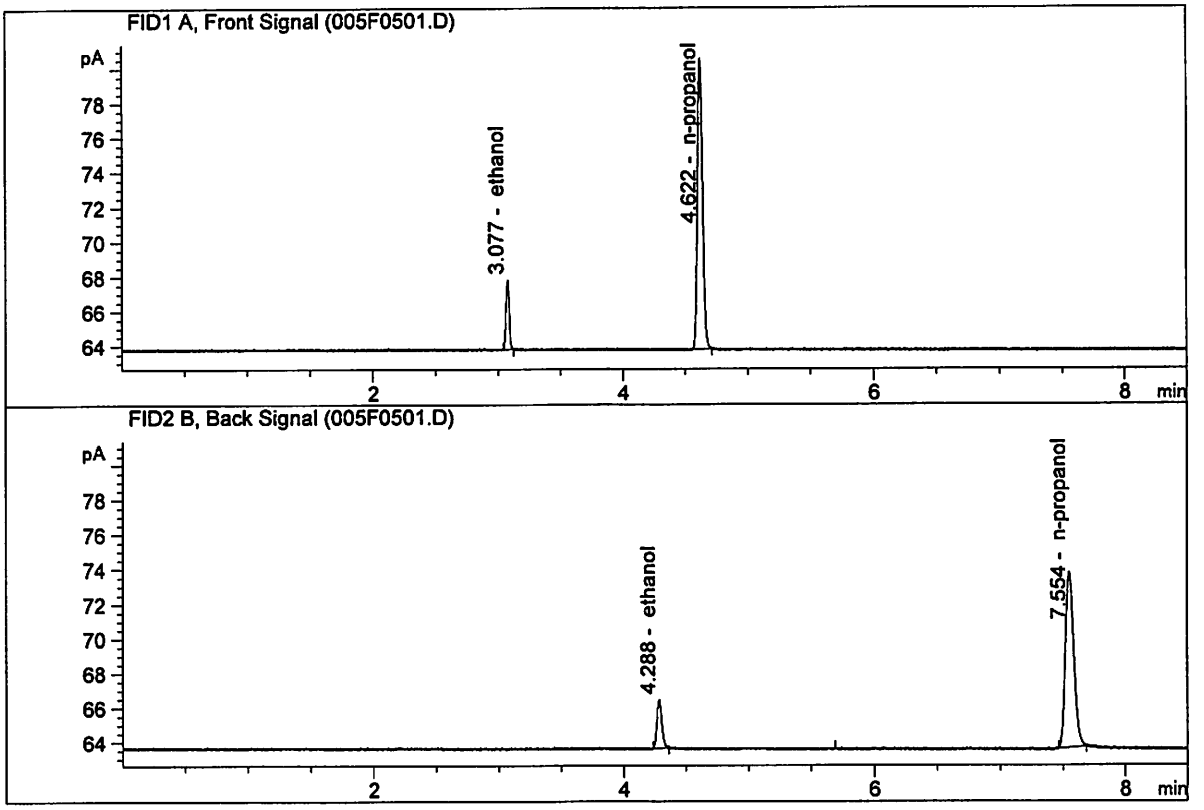
0.081

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-A
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

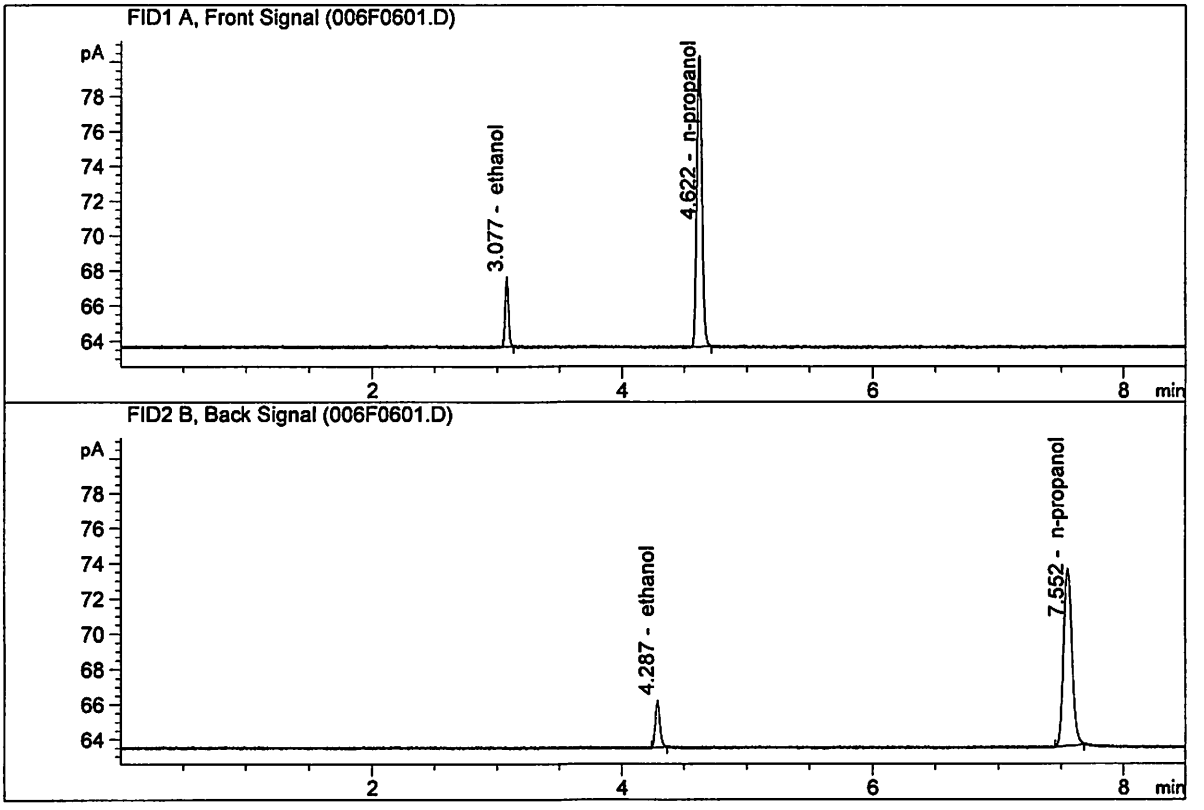


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.44594	0.0826	g/100cc
2.	Ethanol	Column 2:	7.55346	0.0831	g/100cc
3.	n-Propanol	Column 1:	47.73945	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.50191	1.0000	g/100cc

JL

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.23676	0.0807	g/100cc
2.	Ethanol	Column 2:	7.26652	0.0803	g/100cc
3.	n-Propanol	Column 1:	47.50463	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.38735	1.0000	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 29 Aug 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2044	0.2050	0.0006	0.2047	0.2043	
(g/100cc)	0.2032	0.2049	0.0017	0.2040		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: ML600HC11378

Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.204	**0.193**	**0.215**	**0.011**

Reported Result

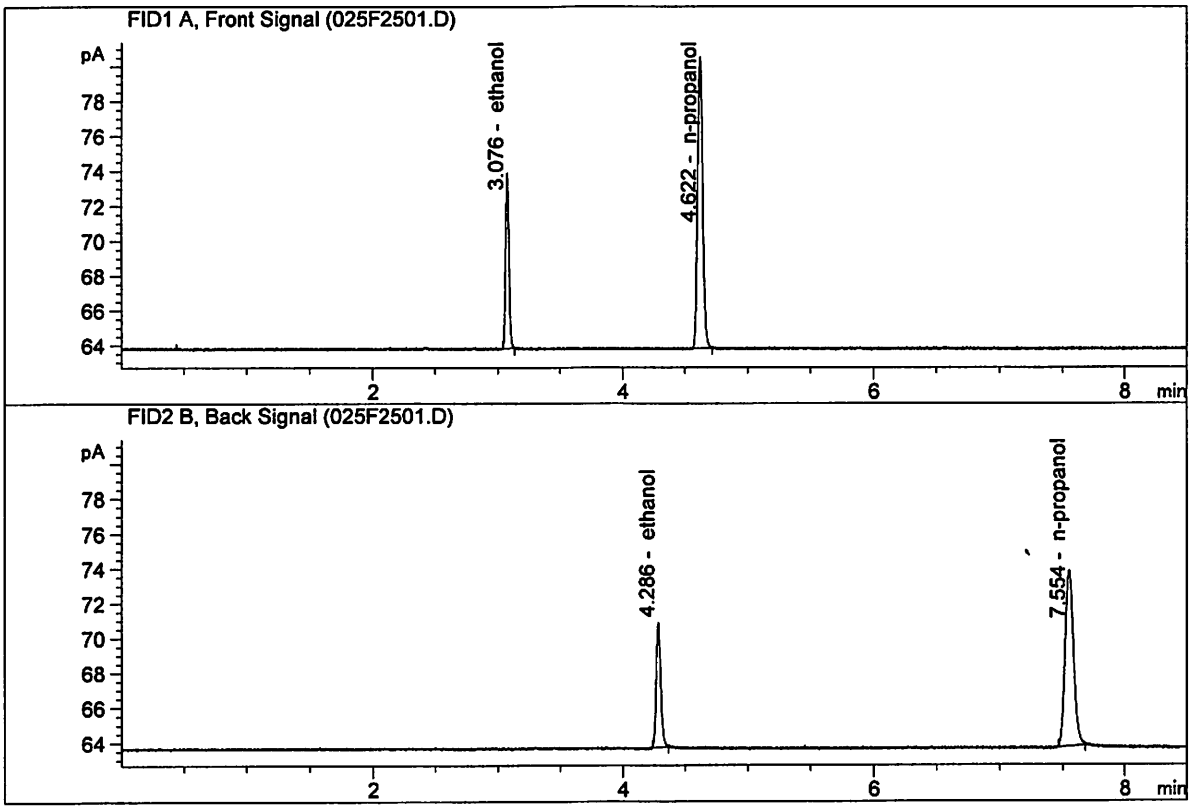
0.204

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

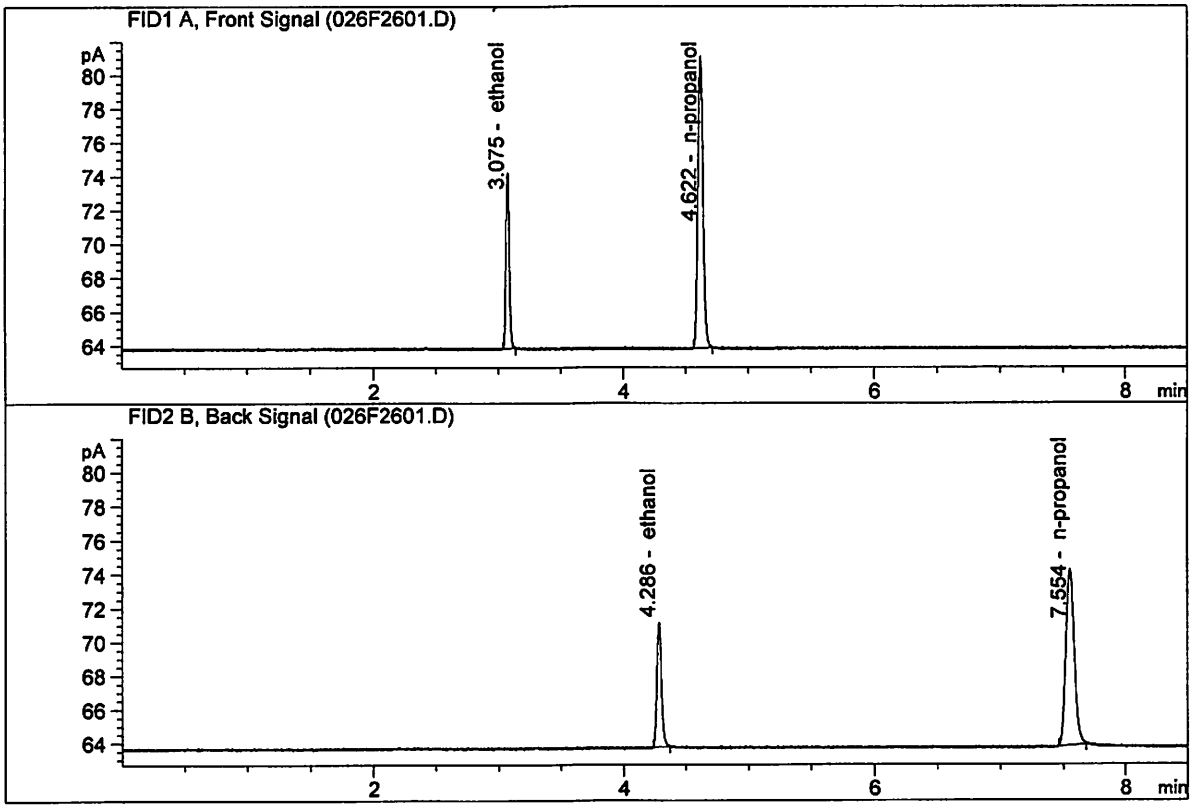
Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.45918	0.2044	g/100cc
2.	Ethanol	Column 2:	19.14968	0.2050	g/100cc
3.	n-Propanol	Column 1:	47.57283	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.44213	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.95026	0.2032	g/100cc
2.	Ethanol	Column 2:	19.75937	0.2049	g/100cc
3.	n-Propanol	Column 1:	49.12371	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.00220	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 29 Aug 2018**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0803	0.0810	0.0007	0.0806	0.0806	
(g/100cc)	0.0803	0.0811	0.0008	0.0807		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number: ML600HC11378

Reporting of Results **Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	**0.076**	**0.084**	**0.004**

Reported Result

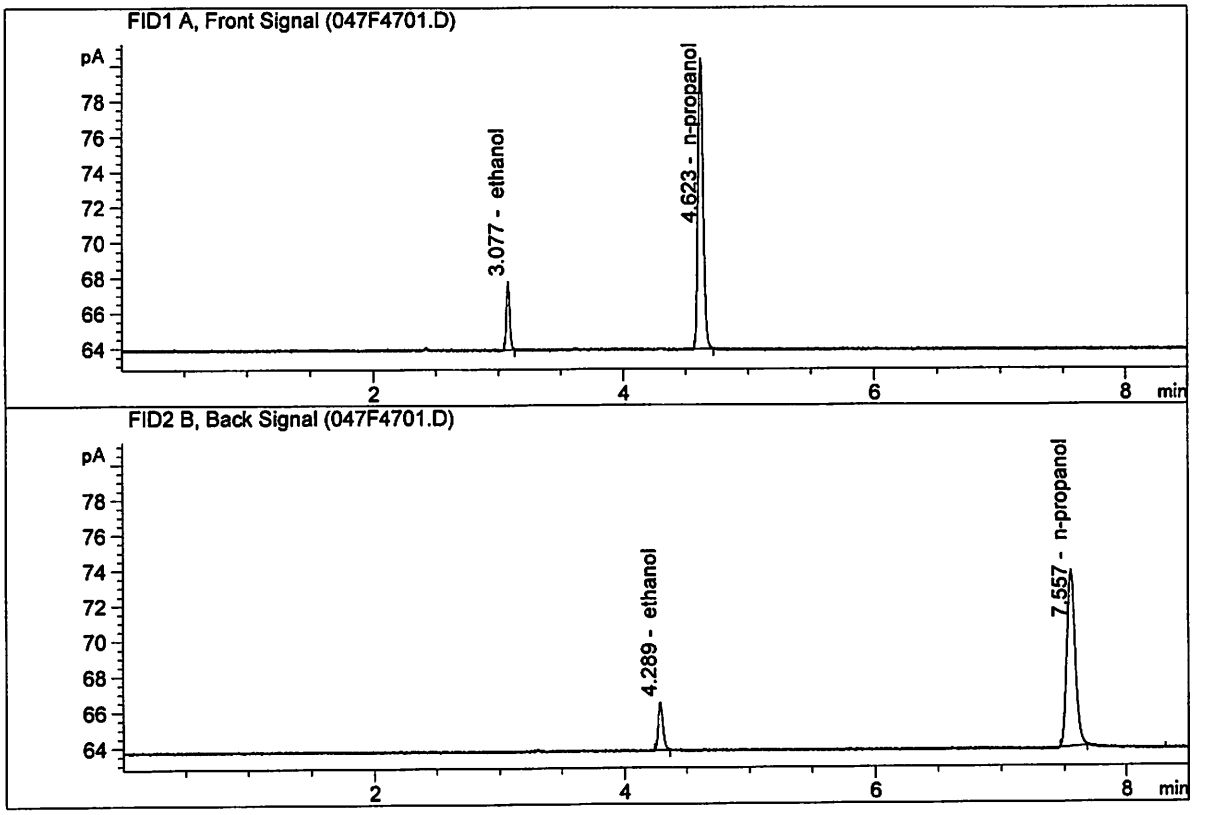
0.080

Calibration and control data are stored centrally.

JL

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

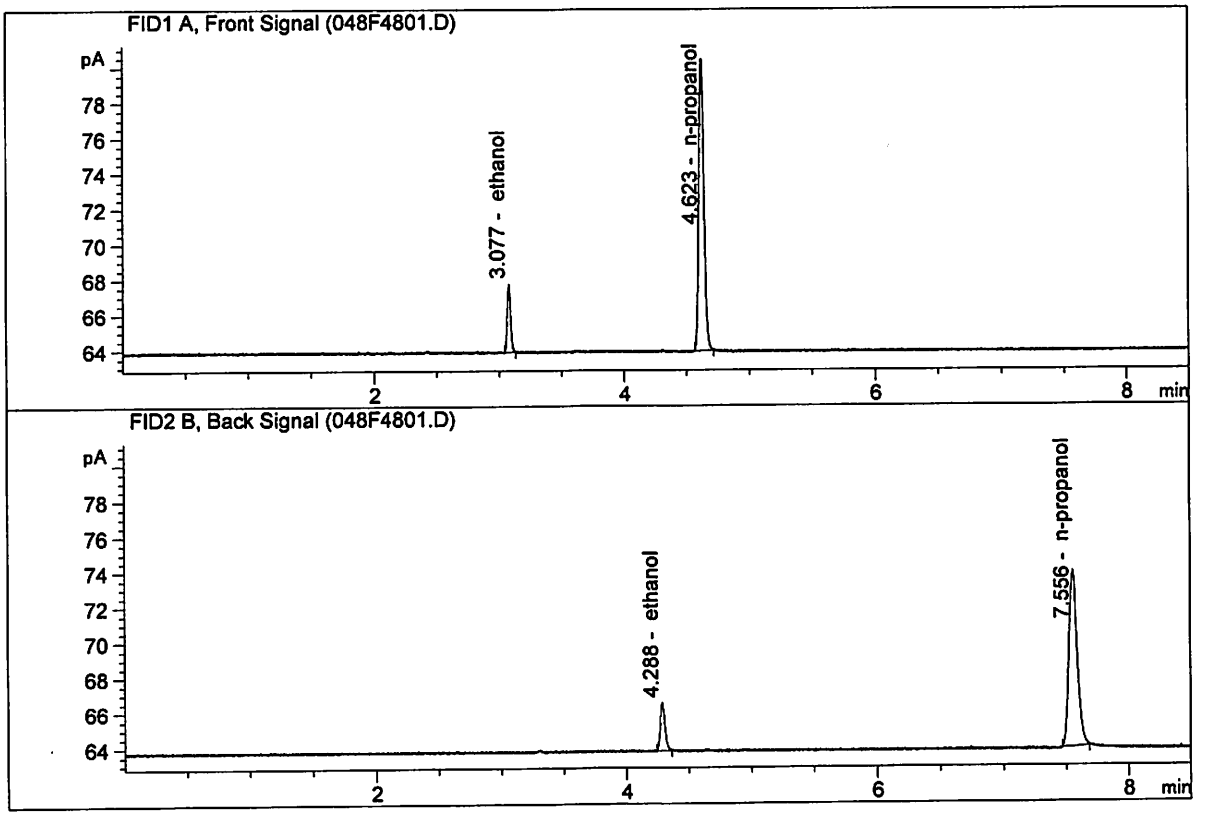


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.14704	0.0803	g/100cc
2.	Ethanol	Column 2:	7.25223	0.0810	g/100cc
3.	n-Propanol	Column 1:	47.13707	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.85749	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

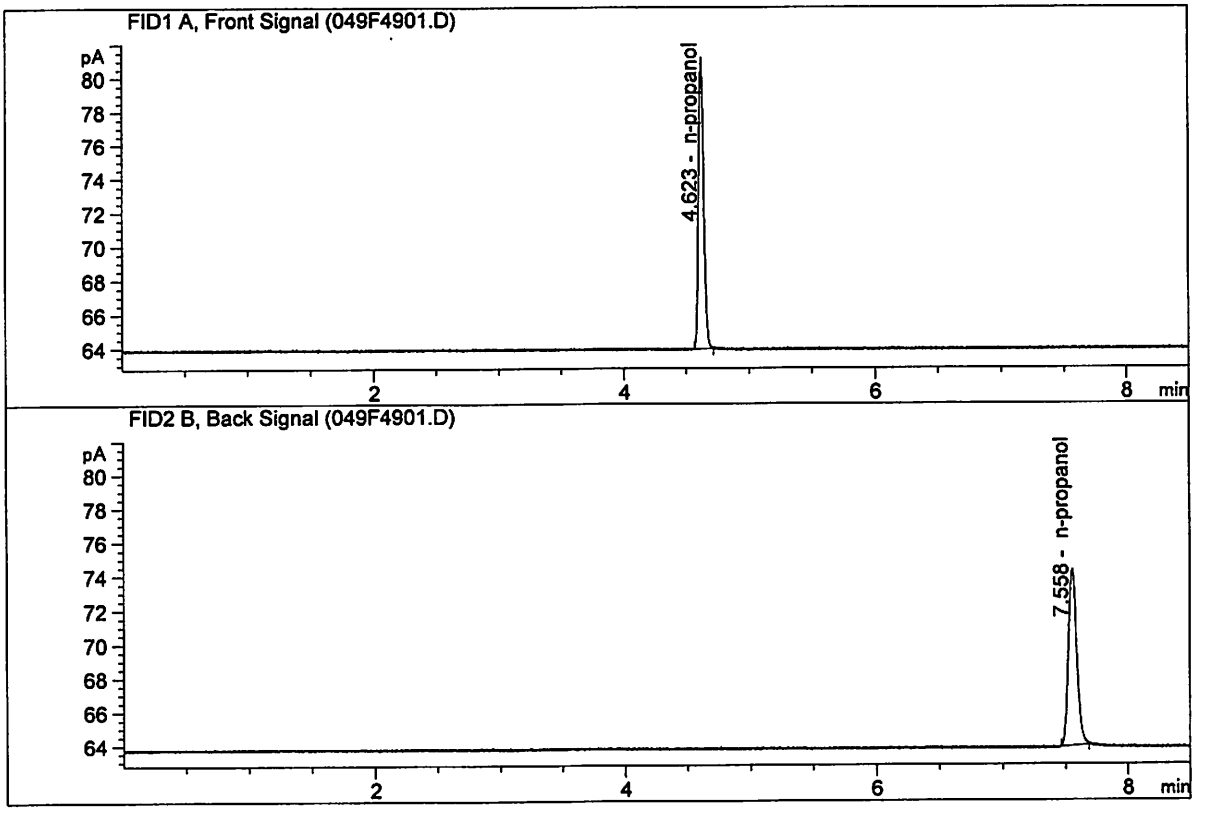


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.15215	0.0803	g/100cc
2.	Ethanol	Column 2:	7.28056	0.0811	g/100cc
3.	n-Propanol	Column 1:	47.18531	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.01486	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Aug 29, 2018
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	49.03525	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.08923	1.0000	g/100cc

Sequence File C:\Chem32\...-18_SAMPLES\8-29-18_SAMPLES 2018-08-29 10-47-23\8-29-18_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\08-29-18_SAMPLES\8-29-18_SAMPLES 2018-08-29 10-47-23\8-2-18_SAMPLES.S
Data directory path: C:\Chem32\1\Data\08-29-18_SAMPLES\8-29-18_SAMPLES 2018-08-29 10-47-23\
Logbook: C:\Chem32\1\Data\08-29-18_SAMPLES\8-29-18_SAMPLES 2018-08-29 10-47-23\8-2-18_SAMPLES.LOG
Sequence start: 8/29/2018 11:02:04 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\08-29-18_SAMPLES\8-29-18_SAMPLES 2018-08-29 10-47-23\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	Cmp
1	1	1	INTERNAL STD BLK	-	1.0000	001F0101.D		2
2	2	1	MIX VOL FN060415	-	1.0000	002F0201.D		10
3	3	1	QC1-1-A	-	1.0000	003F0301.D		4
4	4	1	QC1-1-B	-	1.0000	004F0401.D		4
5	5	1	0.08 FN04171701-	-	1.0000	005F0501.D		4
6	6	1	0.08 FN04171701-	-	1.0000	006F0601.D		4
7	7	1	M2018-4212-1A	-	1.0000	007F0701.D		4
8	8	1	M2018-4212-1B	-	1.0000	008F0801.D		4
9	9	1	M2018-4214-1A	-	1.0000	009F0901.D		6
10	10	1	M2018-4214-1B	-	1.0000	010F1001.D		6
11	11	1	M2018-4215-1A	-	1.0000	011F1101.D		6
12	12	1	M2018-4215-1B	-	1.0000	012F1201.D		6
13	13	1	M2018-4231-3A	-	1.0000	013F1301.D		2
14	14	1	M2018-4231-3B	-	1.0000	014F1401.D		2
15	15	1	M2018-4254-1A	-	1.0000	015F1501.D		6
16	16	1	M2018-4254-1B	-	1.0000	016F1601.D		6
17	17	1	M2018-4255-1A	-	1.0000	017F1701.D		6
18	18	1	M2018-4255-1B	-	1.0000	018F1801.D		6
19	19	1	M2018-4257-2A	-	1.0000	019F1901.D		2
20	20	1	M2018-4257-2B	-	1.0000	020F2001.D		2
21	21	1	M2018-4258-1A	-	1.0000	021F2101.D		2
22	22	1	M2018-4258-1B	-	1.0000	022F2201.D		2
23	23	1	M2018-4271-1A	-	1.0000	023F2301.D		4
24	24	1	M2018-4271-1B	-	1.0000	024F2401.D		4
25	25	1	QC2-1-A	-	1.0000	025F2501.D		4
26	26	1	QC2-1-B	-	1.0000	026F2601.D		4
27	27	1	M2018-4292-1A	-	1.0000	027F2701.D		4
28	28	1	M2018-4292-1B	-	1.0000	028F2801.D		4
29	29	1	M2018-4309-1A	-	1.0000	029F2901.D		2
30	30	1	M2018-4309-1B	-	1.0000	030F3001.D		2
31	31	1	M2018-4309-2A	-	1.0000	031F3101.D		2
32	32	1	M2018-4309-2B	-	1.0000	032F3201.D		2
33	33	1	M2018-4309-3A	-	1.0000	033F3301.D		2
34	34	1	M2018-4309-3B	-	1.0000	034F3401.D		2
35	35	1	M2018-4310-1A	-	1.0000	035F3501.D		4
36	36	1	M2018-4310-1B	-	1.0000	036F3601.D		5
37	37	1	M2018-4311-1A	-	1.0000	037F3701.D		4
38	38	1	M2018-4311-1B	-	1.0000	038F3801.D		4
39	39	1	M2018-4312-1A	-	1.0000	039F3901.D		2
40	40	1	M2018-4312-1B	-	1.0000	040F4001.D		2
41	41	1	M2018-4313-1A	-	1.0000	041F4101.D		6
42	42	1	M2018-4313-1B	-	1.0000	042F4201.D		4
43	43	1	P2018-2316-1A	-	1.0000	043F4301.D		4

Sequence File C:\Chem32\...-18_SAMPLES\8-29-18_SAMPLES 2018-08-29 10-47-23\8-29-18_SAMPLES.S

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
44	44	1	P2018-2316-1B	-	1.0000	044F4401.D		4
45	45	1	P2018-2393-1A	-	1.0000	045F4501.D		2
46	46	1	P2018-2393-1B	-	1.0000	046F4601.D		2
47	47	1	QC1-2-A	-	1.0000	047F4701.D		4
48	48	1	QC1-2-B	-	1.0000	048F4801.D		4
49	49	1	INTERNAL STD BLK	-	1.0000	049F4901.D		2

Method file name: C:\Chem32\1\Data\08-29-18_SAMPLES\8-29-18_SAMPLES 2018-08-29 10-47-23 \SHUTDOWN.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal	# Cmp
50	50	1	EMPTY	-	1.0000	050F5001.D		0