

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: MD96BC1382/MD944M10010

Volatiles Quality Assurance Controls

Run Dates: 02/10/18

Calibration: 02/7/2018

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0765 g/100cc	
					0.0793 g/100cc	
					0.2006 g/100cc	
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	g/100cc	
					g/100cc	
Multi-Component mixture:			Exp date: Oct 2019	Lot #	FN09231404	
Curve Fit:			Column 1	0.99999	Column2	0.99998

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	0.0516	0.0014	0.0509
0.080	Jul-20		0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jan-19	FN06181501	0.100	0.090 - 0.110	0.0994	0.0994	0	0.0994
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1997	0.1989	0.0008	0.1993
0.300	Jun-20	FN02121501	0.300	0.270 - 0.330	0.3011	0.2992	0.0019	0.3001
0.400		FN06051501	0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.4996	0.5009	0.0013	0.5002

Aqueous Controls					
Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.079 g/100cc

Issued: 4/22/2015




















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

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

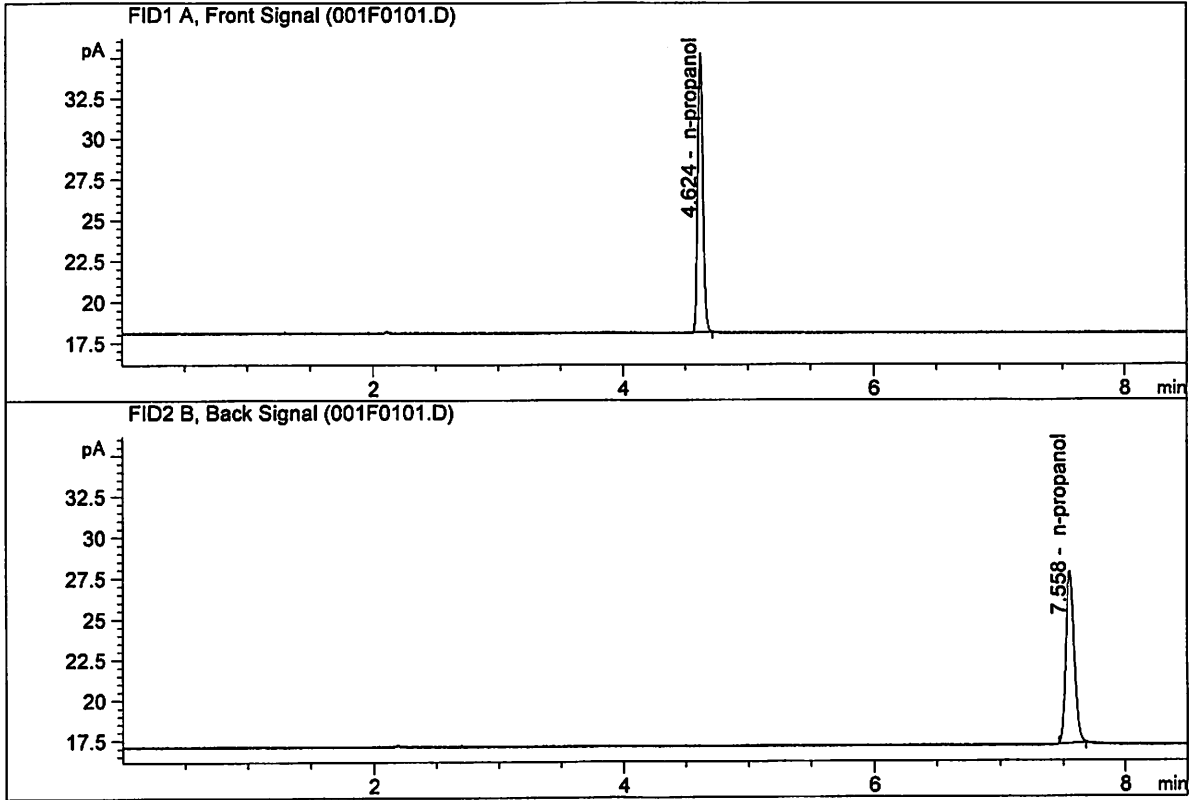
JK

Worklist: 2183

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2018-0446	1	106034	Alcohol Analysis	
M2018-0448	1	106043	Alcohol Analysis	
M2018-0448	2	106047	Alcohol Analysis	
M2018-0451	3	106067	Alcohol Analysis	
M2018-0453	2	106066	Alcohol Analysis	
M2018-0455	1	106112	Alcohol Analysis	
M2018-0485	1	106243	Alcohol Analysis	
M2018-0488	1	106246	Alcohol Analysis	
M2018-0525	1	106418	Alcohol Analysis	
M2018-0526	1	106419	Alcohol Analysis	
M2018-0527	1	106420	Alcohol Analysis	
M2018-0546	1	106445	Alcohol Analysis	
M2018-0547	1	106448	Alcohol Analysis	
M2018-0548	1	106452	Alcohol Analysis	
M2018-0555	1	106501	Alcohol Analysis	
M2018-0557	1	106541	Alcohol Analysis	
M2018-0573	1	106617	Alcohol Analysis	
M2018-0574	1	106621	Alcohol Analysis	
M2018-0575	1	106622	Alcohol Analysis	

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

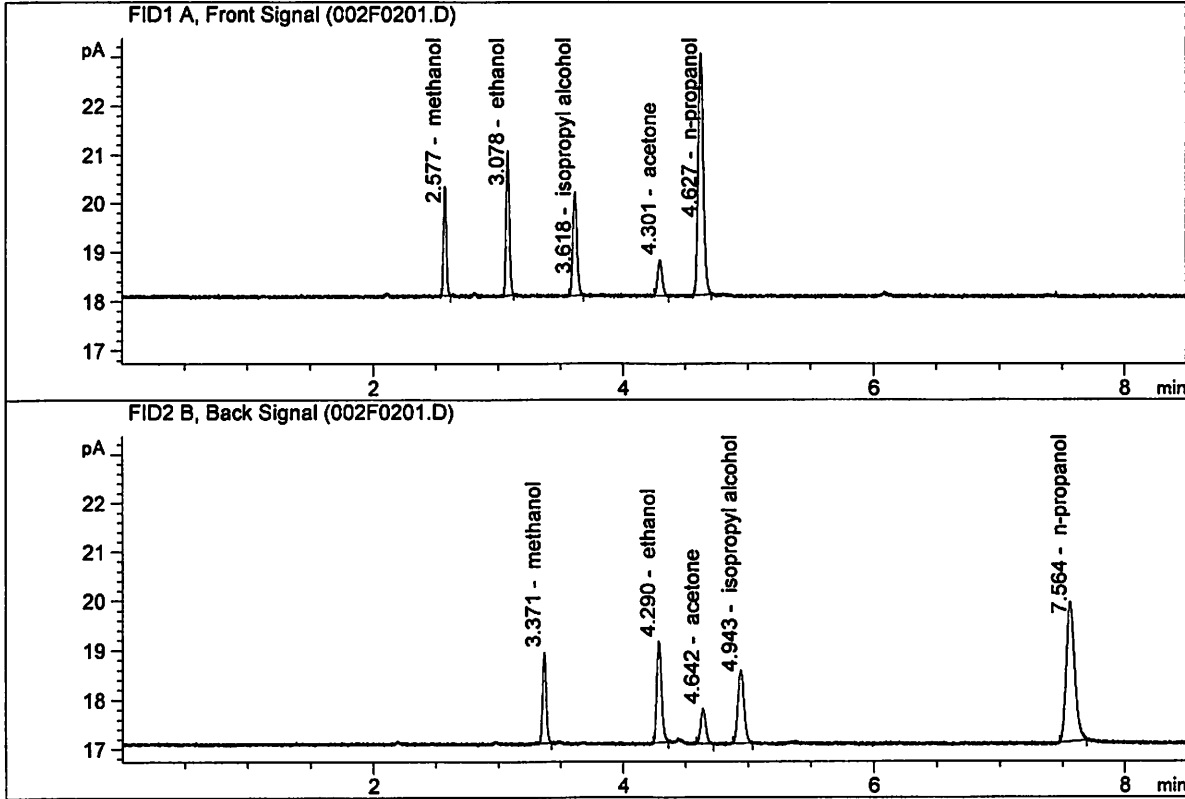


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	48.97134	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.75731	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	5.33885	0.2012	g/100cc
2.	Ethanol	Column 2:	5.45388	0.2059	g/100cc
3.	n-Propanol	Column 1:	14.01690	1.0000	g/100cc
4.	n-Propanol	Column 2:	13.73867	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 10 Feb 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0765	0.0772	0.0007	0.0768	0.0765
(g/100cc)	0.0762	0.0763	0.0001	0.0762	

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:
MD96BC1382/MD94AM10010

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	0.072	0.080	0.004

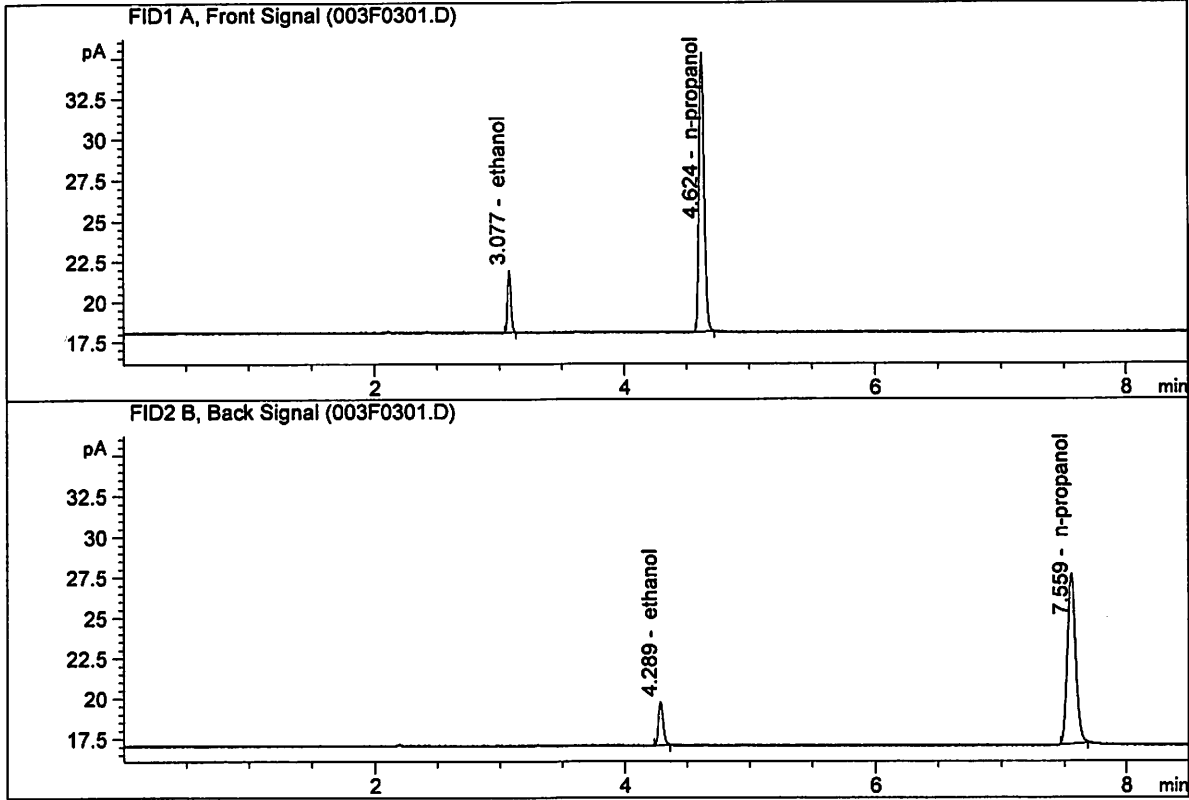
	Reported Result 0.076
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Calibration and control data are stored centrally.

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

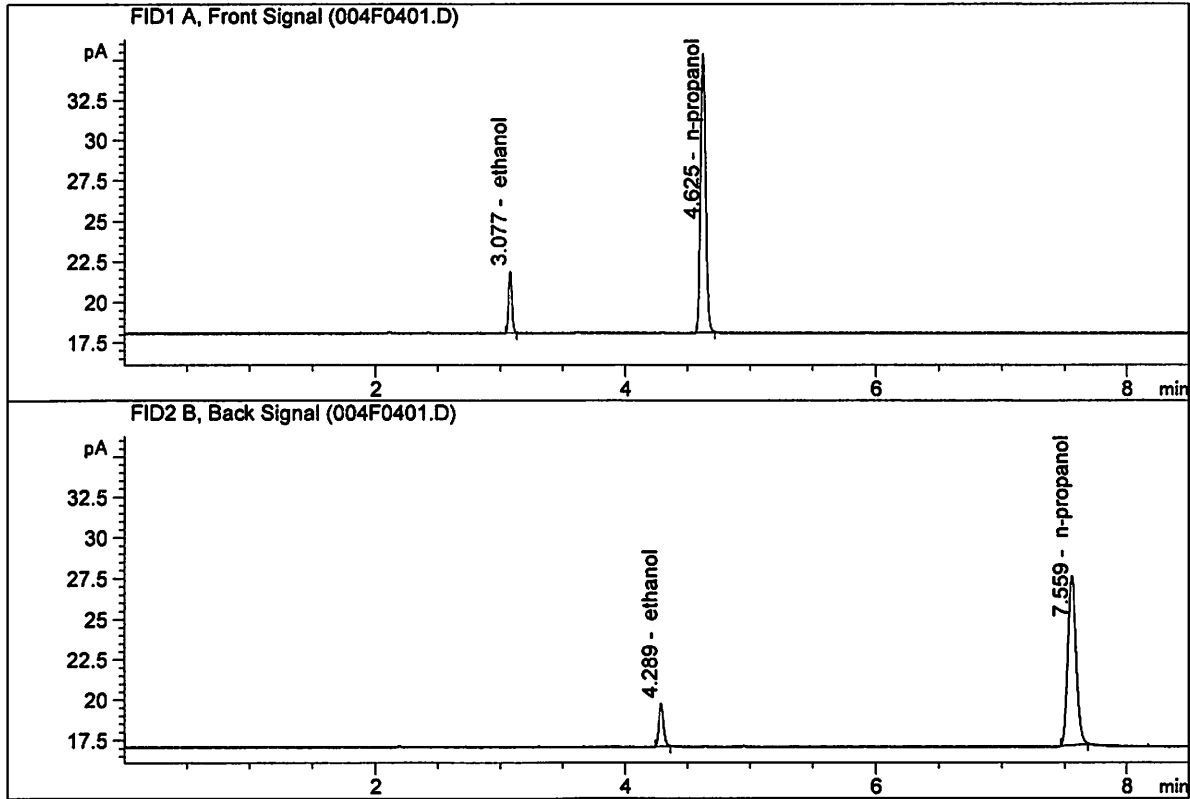


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.09542	0.0765	g/100cc
2.	Ethanol	Column 2:	7.21919	0.0772	g/100cc
3.	n-Propanol	Column 1:	49.04488	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.17181	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.08909	0.0762	g/100cc
2.	Ethanol	Column 2:	7.13248	0.0763	g/100cc
3.	n-Propanol	Column 1:	49.17365	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.23477	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510

Analysis Date(s): 10 Feb 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0790	0.0793	0.0003	0.0791	0.0794	
(g/100cc)	0.0798	0.0796	0.0002	0.0797		

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:
MD96BC1382/MD94AM10010

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	0.075	0.083	0.004

Reported Result	
0.079	

Calibration and control data are stored centrally.

Issued: 12/30/2016

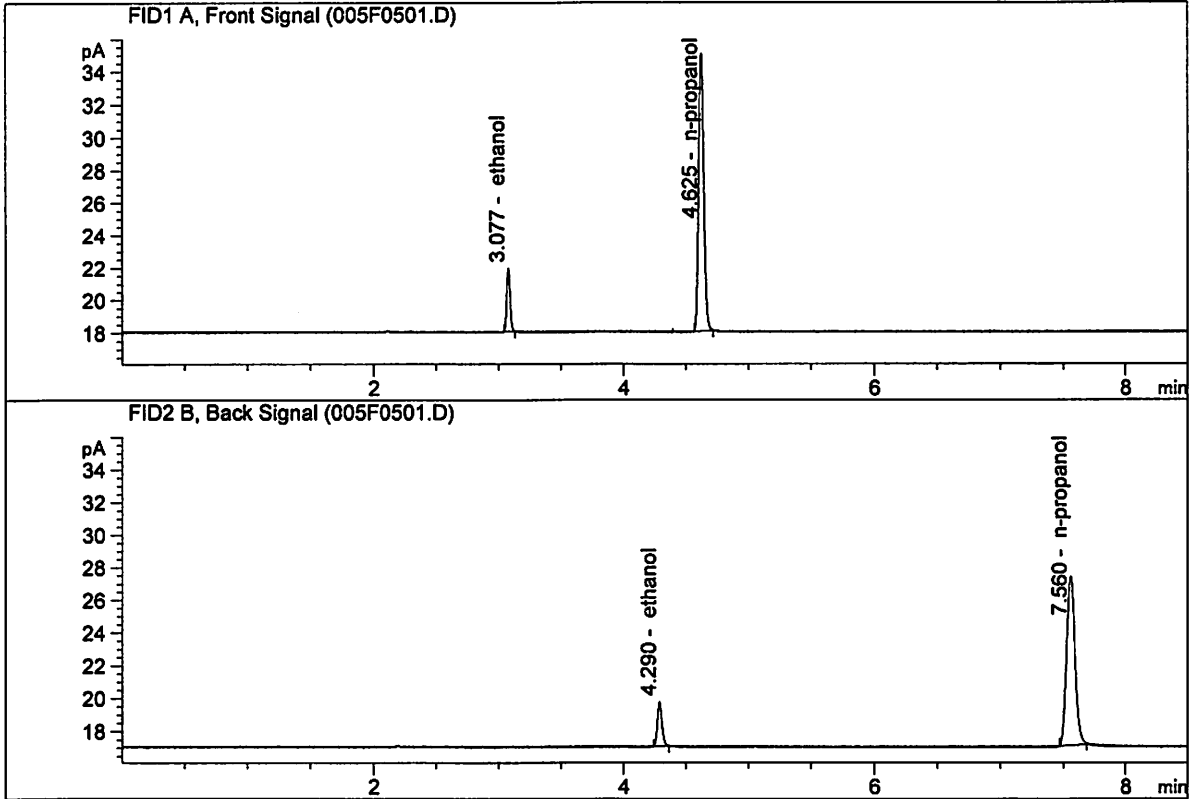
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

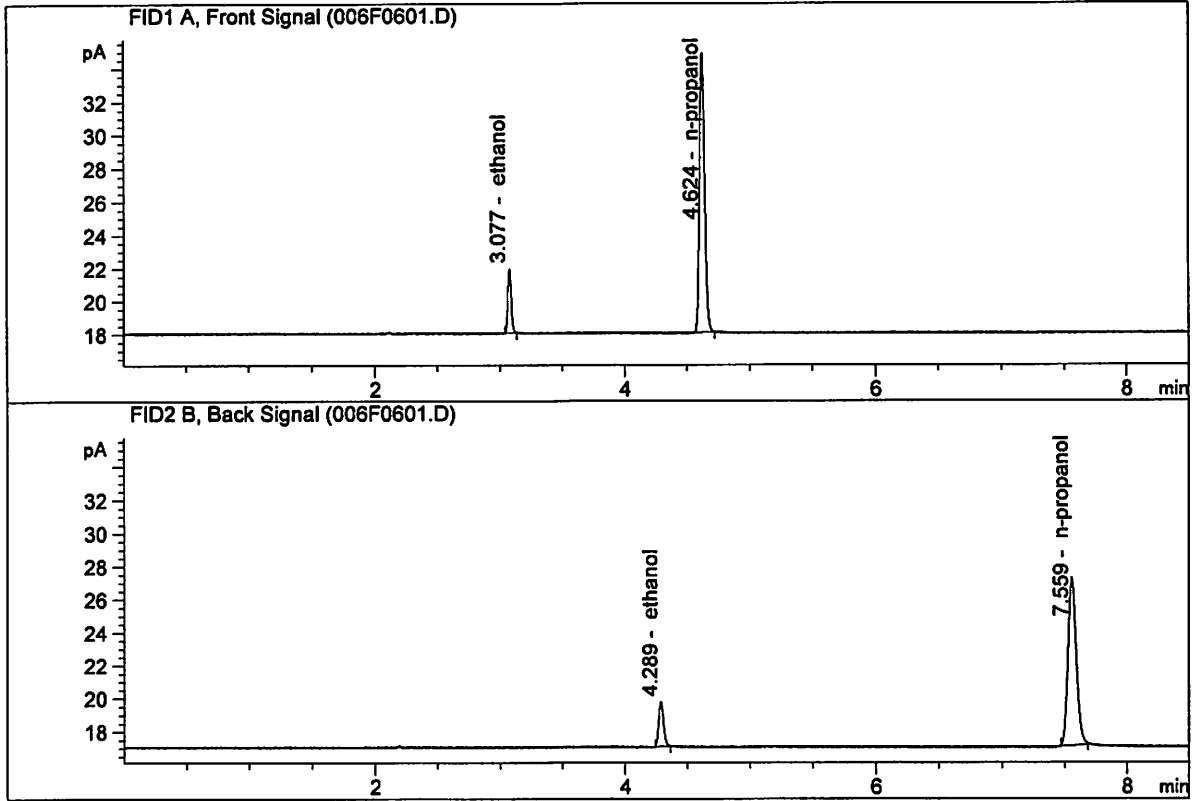
Sample Name : 0.08 FN10281510-A
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.23144	0.0790	g/100cc
2.	Ethanol	Column 2:	7.29729	0.0793	g/100cc
3.	n-Propanol	Column 1:	48.38478	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.34198	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.21184	0.0798	g/100cc
2.	Ethanol	Column 2:	7.22816	0.0796	g/100cc
3.	n-Propanol	Column 1:	47.80544	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.67917	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 10 Feb 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2007	0.2014	0.0007	0.2010	0.2006	
(g/100cc)	0.2010	0.1993	0.0017	0.2001		

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:
MD96BC1382/MD94AM10010

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.200	0.190	0.210	0.010

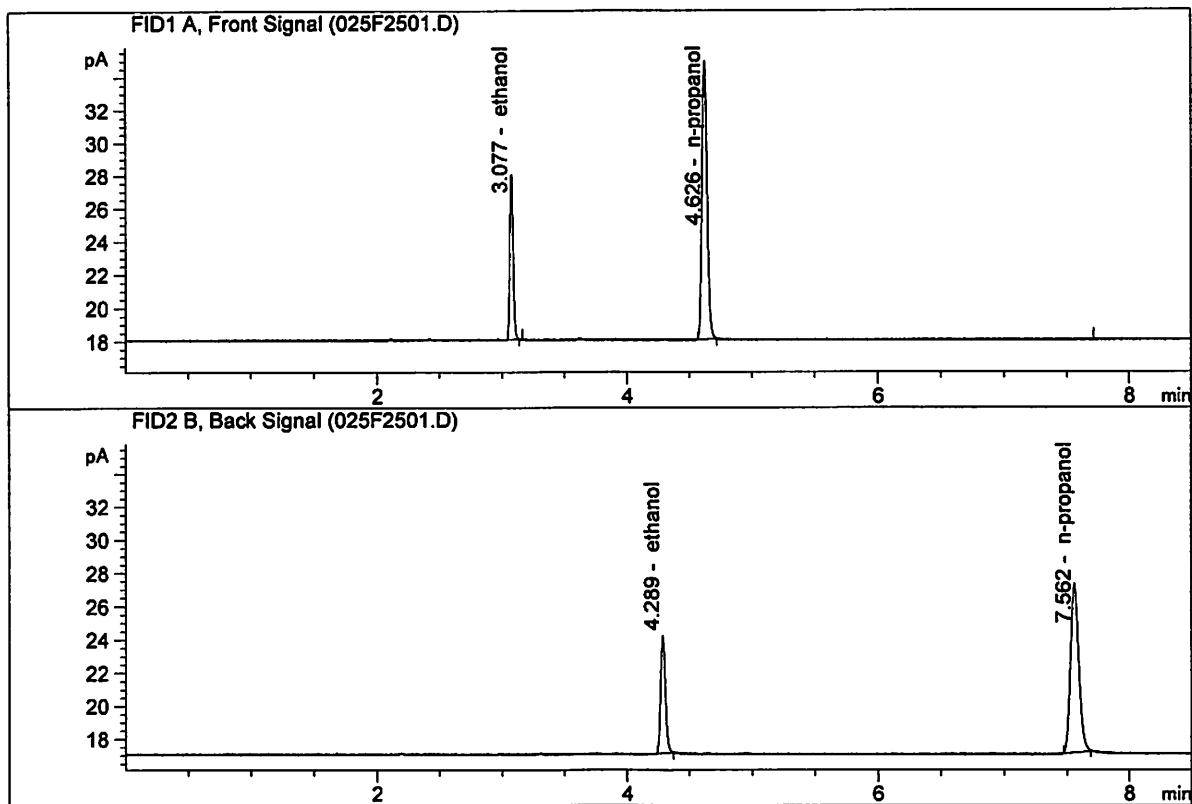
	Reported Result	
	0.200	

Calibration and control data are stored centrally.

Issued: 12/30/2016
Volatiles BAC Calculation Spreadsheet Rev 4
Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

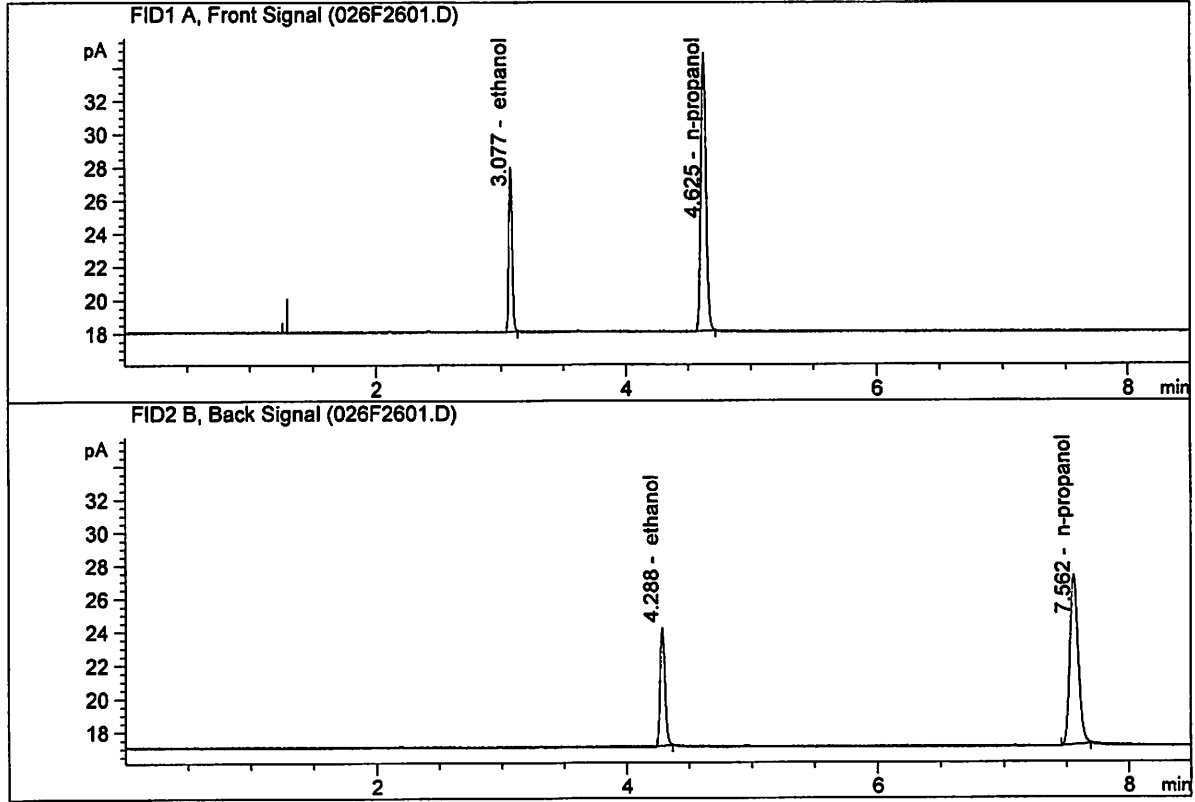
Sample Name : QC2-1-A
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.19727	0.2007	g/100cc
2.	Ethanol	Column 2:	18.91234	0.2014	g/100cc
3.	n-Propanol	Column 1:	47.87996	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.70510	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.16485	0.2010	g/100cc
2.	Ethanol	Column 2:	18.75280	0.1993	g/100cc
3.	n-Propanol	Column 1:	47.74571	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.83536	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 10 Feb 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0793	0.0810	0.0017	0.0801	0.0793	
(g/100cc)	0.0782	0.0788	0.0006	0.0785		

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:
MD96BC1382/MD94AM10010

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	0.075	0.083	0.004

	<p>Reported Result</p> <p style="font-size: 1.2em;">0.079</p>	
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Calibration and control data are stored centrally.

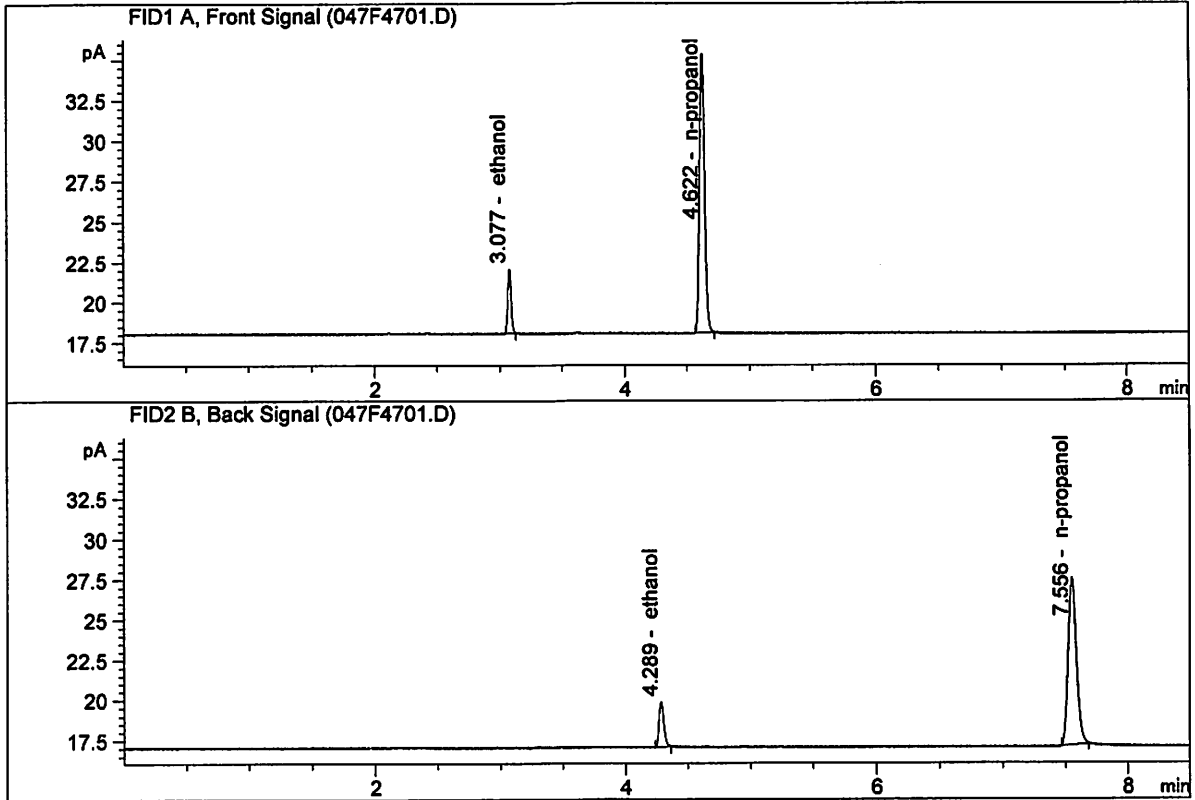
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

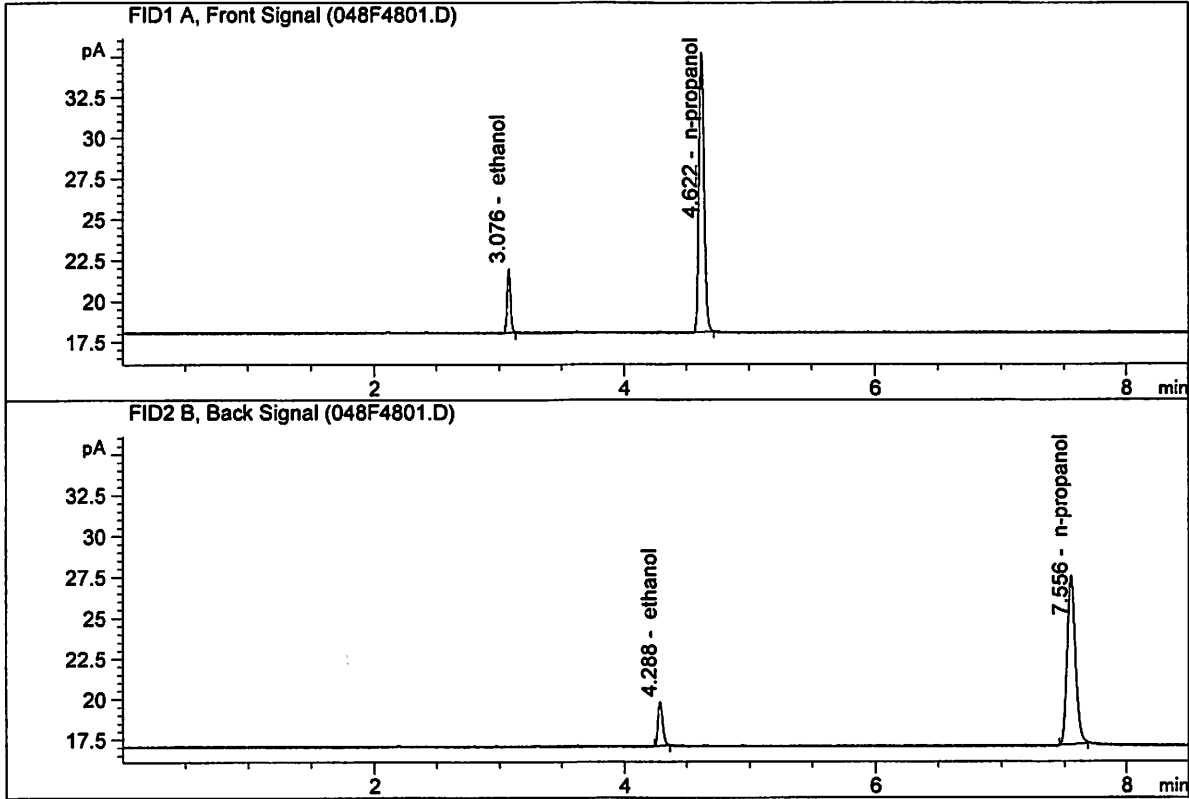
Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.38129	0.0793	g/100cc
2.	Ethanol	Column 2:	7.54238	0.0810	g/100cc
3.	n-Propanol	Column 1:	49.22798	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.87650	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

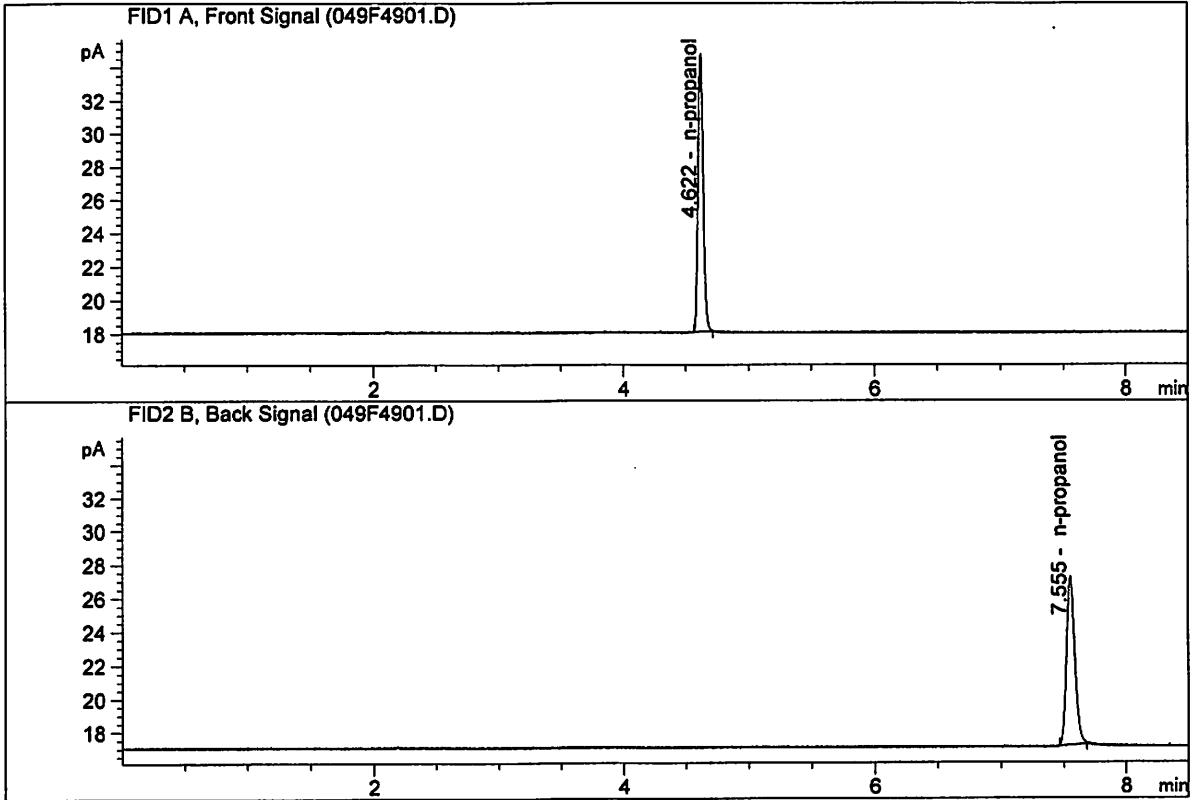
Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : Feb 10, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.20380	0.0782	g/100cc
2.	Ethanol	Column 2:	7.27978	0.0788	g/100cc
3.	n-Propanol	Column 1:	48.74464	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.55171	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Feb 10, 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:	47.44538	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.15845	1.0000	g/100cc

S a m p l e S u m m a r y

Sequence table: C:\Chem32\1\Data\02-10-18_SAMPLES\02-10-18_SAMPLES 2018-02-10 11-01-20\02-10-18_SAMPLES.S
 Data directory path: C:\Chem32\1\Data\02-10-18_SAMPLES\02-10-18_SAMPLES 2018-02-10 11-01-20\
 Logbook: C:\Chem32\1\Data\02-10-18_SAMPLES\02-10-18_SAMPLES 2018-02-10 11-01-20\02-10-18_SAMPLES.LOG
 Sequence start: 2/10/2018 11:16:04 AM
 Sequence Operator: SYSTEM
 Operator: SYSTEM
 Method file name: C:\Chem32\1\Data\02-10-18_SAMPLES\02-10-18_SAMPLES 2018-02-10 11-01-20\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 FN092314	-	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 FN10281510-	-	1.0000	005F0501.D		4
6	6	1	0.08 FN10281510-	-	1.0000	006F0601.D		4
7	7	1	M2018-0446-1-A	-	1.0000	007F0701.D		6
8	8	1	M2018-0446-1-B	-	1.0000	008F0801.D		6
9	9	1	M2018-0448-1-A	-	1.0000	009F0901.D		2
10	10	1	M2018-0448-1-B	-	1.0000	010F1001.D		2
11	11	1	M2018-0448-2-A	-	1.0000	011F1101.D		2
12	12	1	M2018-0448-2-B	-	1.0000	012F1201.D		2
13	13	1	M2018-0451-3-A	-	1.0000	013F1301.D		2
14	14	1	M2018-0451-3-B	-	1.0000	014F1401.D		2
15	15	1	M2018-0453-2-A	-	1.0000	015F1501.D		2
16	16	1	M2018-0453-2-B	-	1.0000	016F1601.D		2
17	17	1	M2018-0455-1-A	-	1.0000	017F1701.D		4
18	18	1	M2018-0455-1-B	-	1.0000	018F1801.D		4
19	19	1	M2018-0485-1-A	-	1.0000	019F1901.D		6
20	20	1	M2018-0485-1-B	-	1.0000	020F2001.D		6
21	21	1	M2018-0488-1-A	-	1.0000	021F2101.D		6
22	22	1	M2018-0488-1-B	-	1.0000	022F2201.D		6
23	23	1	M2018-0525-1-A	-	1.0000	023F2301.D		4
24	24	1	M2018-0525-1-B	-	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	M2018-0526-1-A	-	1.0000	027F2701.D		6
28	28	1	M2018-0526-1-B	-	1.0000	028F2801.D		4
29	29	1	M2018-0527-1-A	-	1.0000	029F2901.D		6
30	30	1	M2018-0527-1-B	-	1.0000	030F3001.D		6
31	31	1	M2018-0546-1-A	-	1.0000	031F3101.D		6
32	32	1	M2018-0546-1-B	-	1.0000	032F3201.D		6
33	33	1	M2018-0547-1-A	-	1.0000	033F3301.D		6
34	34	1	M2018-0547-1-B	-	1.0000	034F3401.D		6
35	35	1	M2018-0548-1-A	-	1.0000	035F3501.D		6
36	36	1	M2018-0548-1-B	-	1.0000	036F3601.D		6
37	37	1	M2018-0555-1-A	-	1.0000	037F3701.D		6
38	38	1	M2018-0555-1-B	-	1.0000	038F3801.D		6
39	39	1	M2018-0557-1-A	-	1.0000	039F3901.D		2
40	40	1	M2018-0557-1-B	-	1.0000	040F4001.D		2
41	41	1	M2018-0573-1-A	-	1.0000	041F4101.D		2
42	42	1	M2018-0573-1-B	-	1.0000	042F4201.D		2
43	43	1	M2018-0574-1-A	-	1.0000	043F4301.D		3

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Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #
44	44	1	M2018-0574-1-B	-	1.0000	044F4401.D	3
45	45	1	M2018-0575-1-A	-	1.0000	045F4501.D	4
46	46	1	M2018-0575-1-B	-	1.0000	046F4601.D	4
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\02-10-18_SAMPLES\02-10-18_SAMPLES 2018-02-10 11-01-20 \SHUTDOWN.M

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

36