

Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: MD96BC1382/MD94AMI0010

Volatiles Quality Assurance Controls

Run Dates: 02/16/18

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	0.0766 g/100cc	
					0.0805 g/100cc	
					0.2029 g/100cc	
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	g/100cc g/100cc g/100cc	
Multi-Component mixture:			Exp date: Oct 2019	Lot #	OK	
Curve Fit:			Column 1	0.99999	Column2	0.99998

Ethanol Calibration Reference Material								
Calibrator level	Expiration	Ceriliant 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	Jun-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	FN06051501	0.300	0.270 - 0.330	0.3011	0.2992	0.0019	0.3001
0.400			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	Ceriliant 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 QANQC data spreadsheet Rev 5

Issuing Authority: Quality Manager



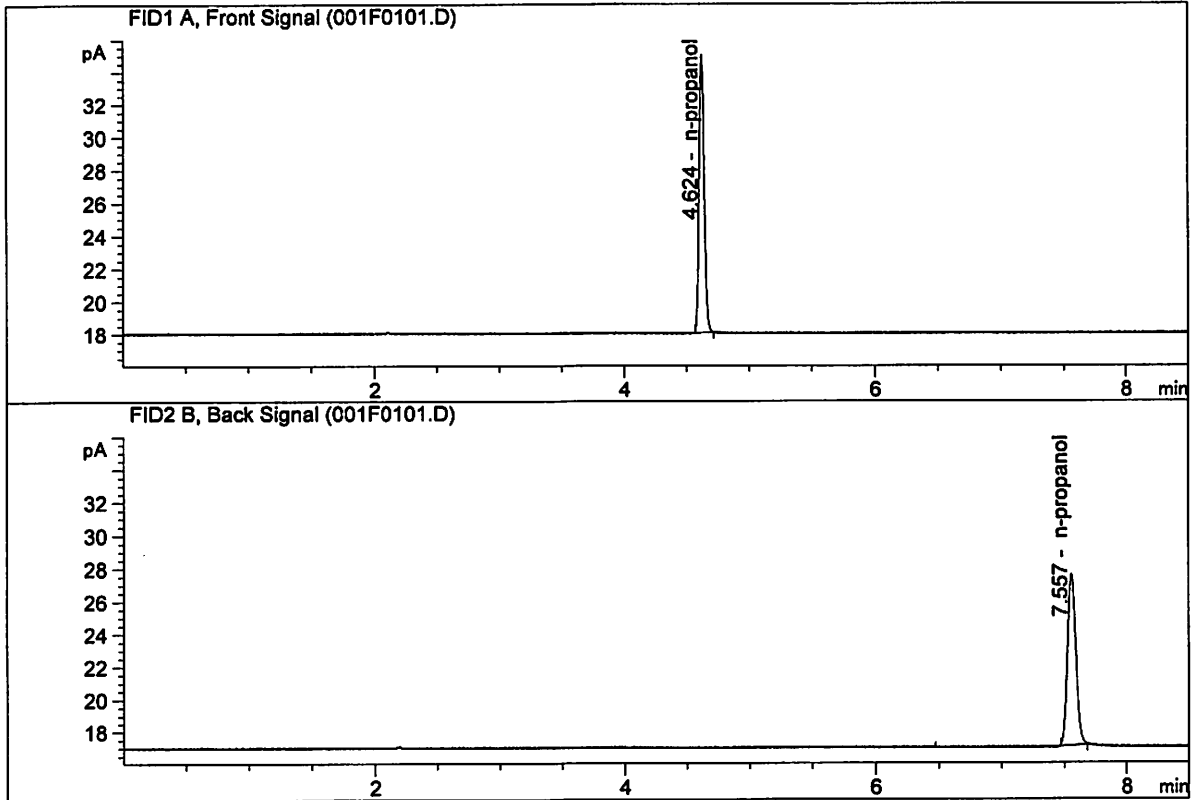
Worklist: 2192

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2018-0585	1	106730	Alcohol Analysis	
M2018-0588	1	106786	Alcohol Analysis	
M2018-0596	1	106850	Alcohol Analysis	
M2018-0597	1	106851	Alcohol Analysis	
M2018-0598	1	106852	Alcohol Analysis	
M2018-0611	1	106879	Alcohol Analysis	
M2018-0614	1	106895	Alcohol Analysis	
M2018-0618	1	106899	Alcohol Analysis	
M2018-0621	1	106958	Alcohol Analysis	
M2018-0622	1	106959	Alcohol Analysis	
M2018-0654	1	107018	Alcohol Analysis	
M2018-0660	1	107026	Alcohol Analysis	
M2018-0675	1	107204	Alcohol Analysis	
M2018-0686	1	107222	Alcohol Analysis	
M2018-0687	1	107223	Alcohol Analysis	
M2018-0692	1	107267	Alcohol Analysis	
M2018-0693	1	107271	Alcohol Analysis	
P2018-0328	2	106179	Alcohol Analysis	
P2018-0363	1	106467	Alcohol Analysis	



ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Feb 15, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

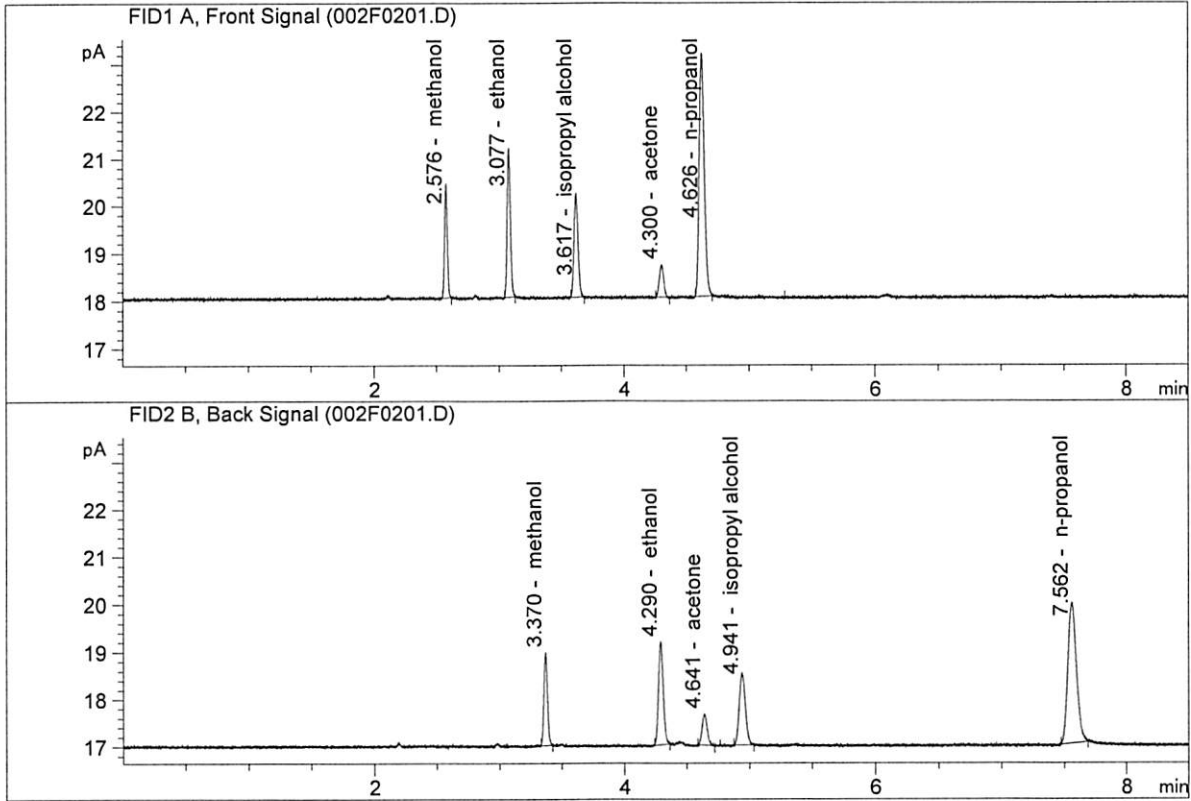


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	48.33735	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.15334	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
 Laboratory : Meridian
 Injection Date : Feb 15, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	5.63831	0.2049	g/100cc
2.	Ethanol	Column 2:	5.80276	0.2101	g/100cc
3.	n-Propanol	Column 1:	14.53321	1.0000	g/100cc
4.	n-Propanol	Column 2:	14.31400	1.0000	g/100cc

JK

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 15 Feb 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0766	0.0769	0.0003	0.0767	0.0766	
(g/100cc)	0.0764	0.0768	0.0004	0.0766		

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	

Calibration and control data are stored centrally.

Issued: 12/30/2016

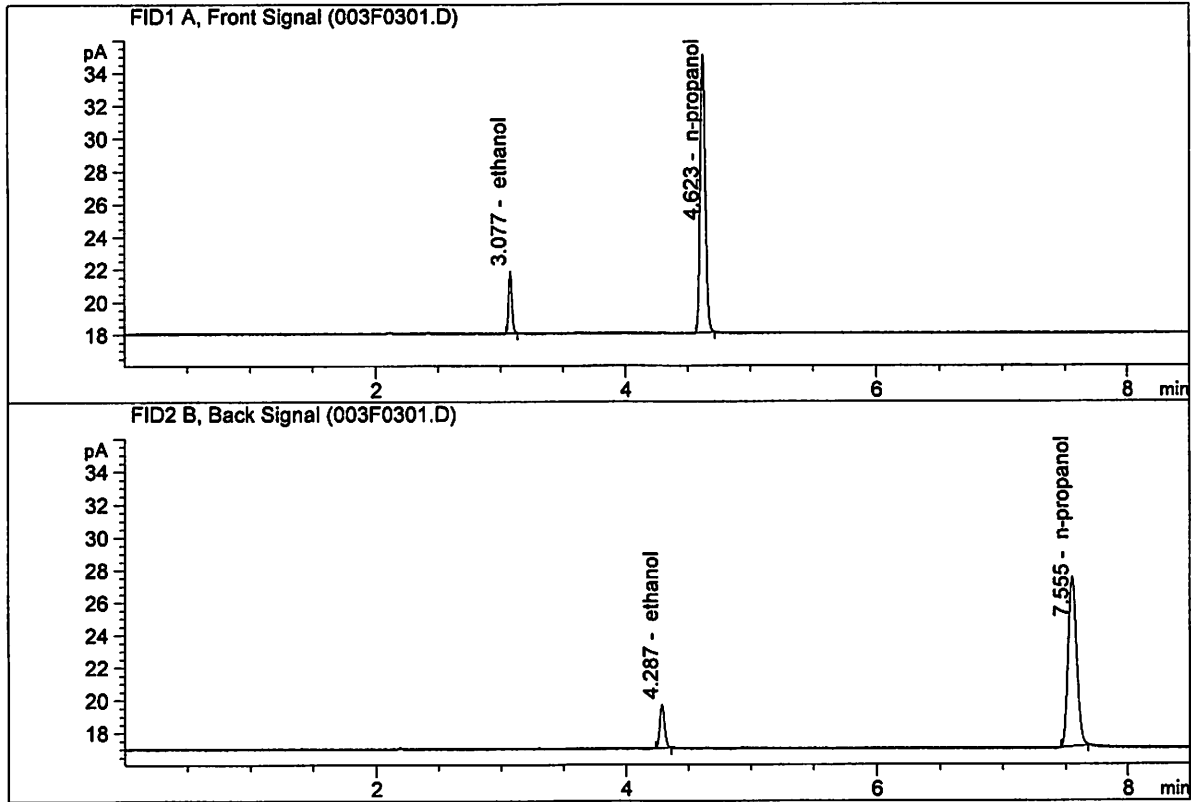
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

XC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
 Laboratory : Meridian
 Injection Date : Feb 15, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

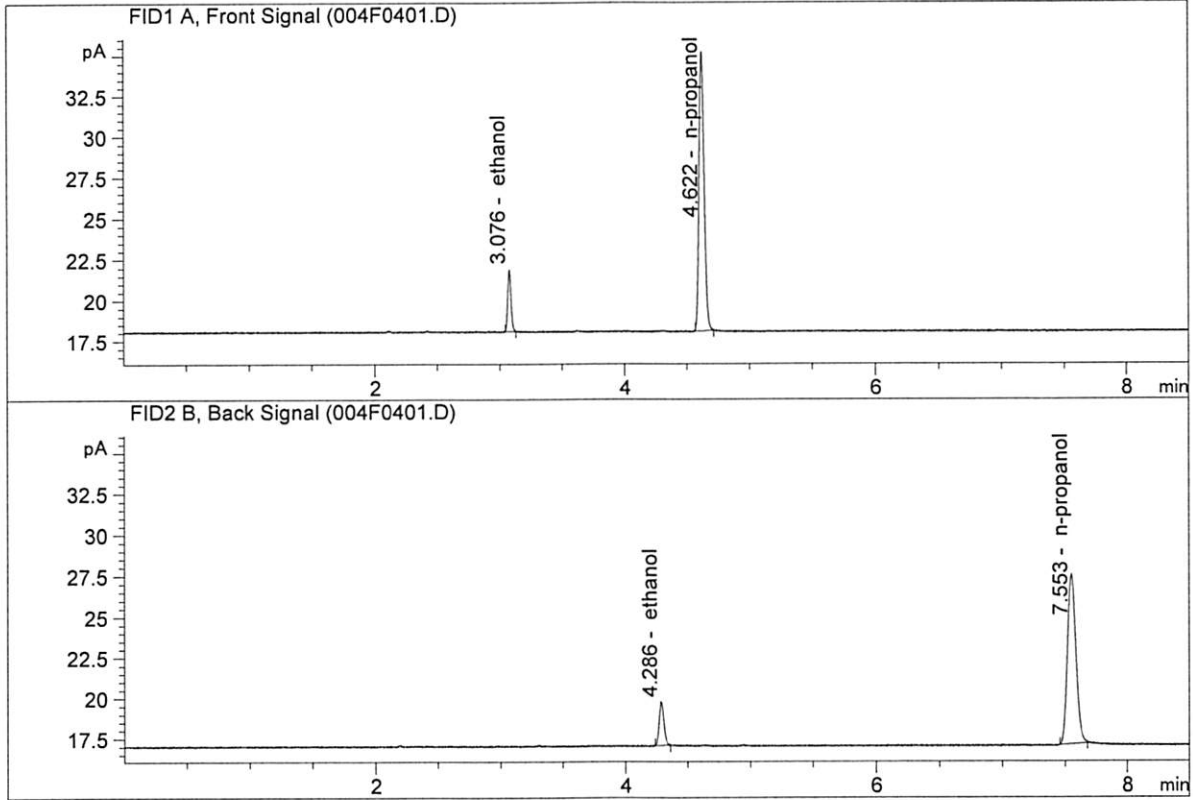


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.02029	0.0766	g/100cc
2.	Ethanol	Column 2:	7.10707	0.0769	g/100cc
3.	n-Propanol	Column 1:	48.43854	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.58351	1.0000	g/100cc

K

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
 Laboratory : Meridian
 Injection Date : Feb 15, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.02305	0.0764	g/100cc
2.	Ethanol	Column 2:	7.12004	0.0768	g/100cc
3.	n-Propanol	Column 1:	48.61387	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.77052	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510

Analysis Date(s): 15 Feb 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0791	0.0793	0.0002	0.0792	0.0792	
(g/100cc)	0.0792	0.0794	0.0002	0.0793		

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.

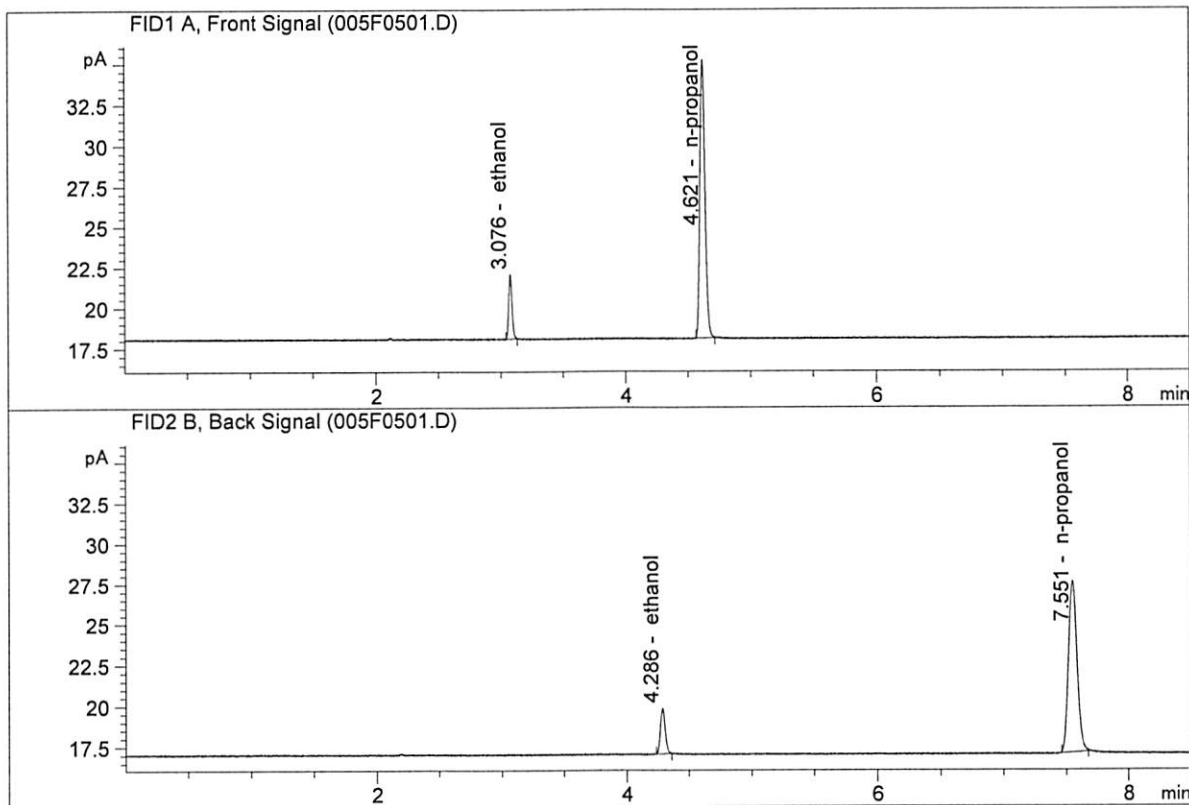
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
 Laboratory : Meridian
 Injection Date : Feb 15, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

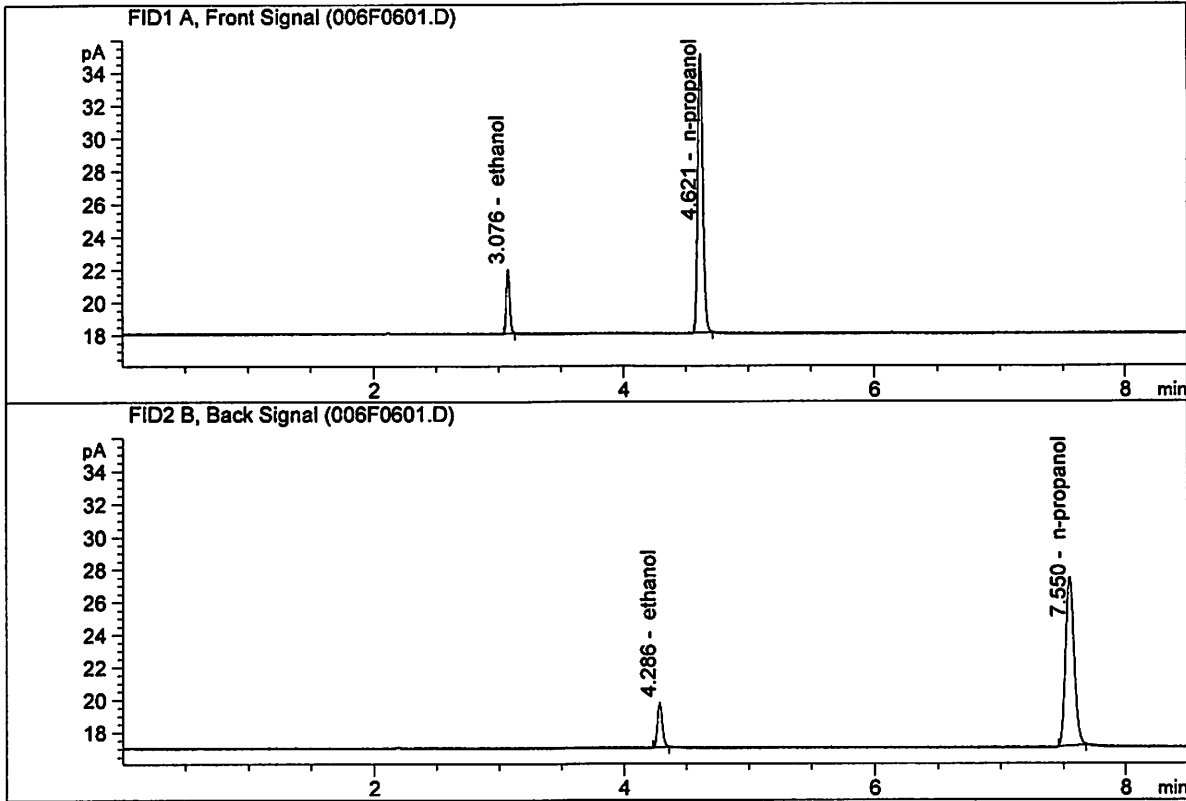


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.27633	0.0791	g/100cc
2.	Ethanol	Column 2:	7.37181	0.0793	g/100cc
3.	n-Propanol	Column 1:	48.65023	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.82234	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
 Laboratory : Meridian
 Injection Date : Feb 15, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.23274	0.0792	g/100cc
2.	Ethanol	Column 2:	7.31638	0.0794	g/100cc
3.	n-Propanol	Column 1:	48.28627	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.40520	1.0000	g/100cc

JL

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 15 Feb 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2030	0.2026	0.0004	0.2028	0.2029	
(g/100cc)	0.2032	0.2028	0.0004	0.2030		

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
0.202	0.191	0.213	0.011

	Reported Result 0.202	
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Calibration and control data are stored centrally.

Issued: 12/30/2016

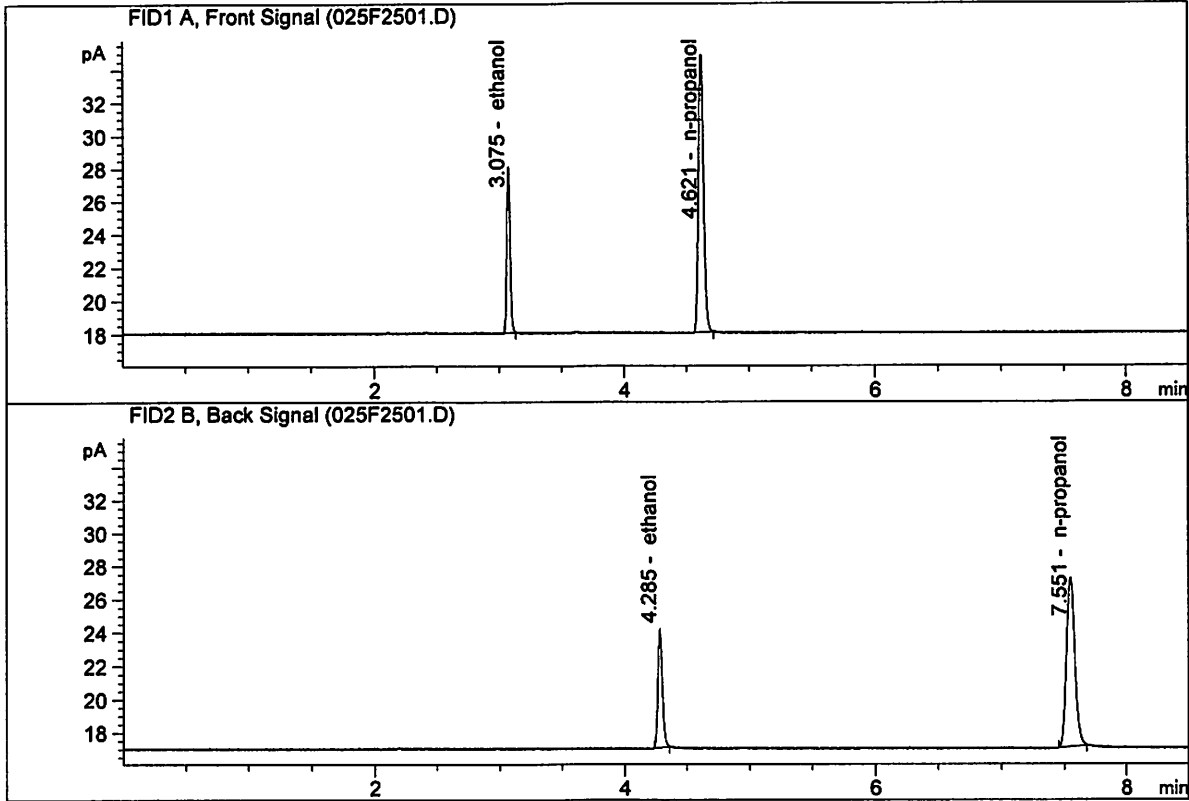
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
 Laboratory : Meridian
 Injection Date : Feb 15, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

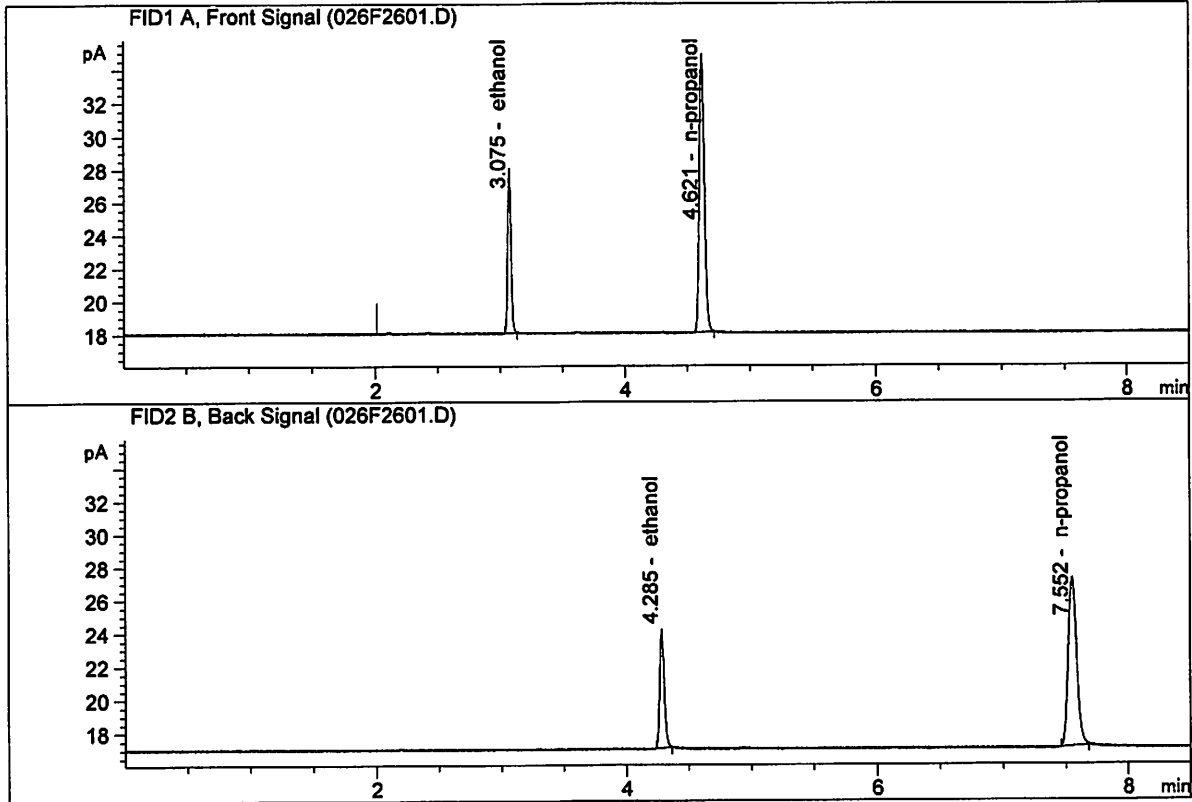


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.35533	0.2030	g/100cc
2.	Ethanol	Column 2:	18.92881	0.2026	g/100cc
3.	n-Propanol	Column 1:	47.76340	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.46727	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
 Laboratory : Meridian
 Injection Date : Feb 15, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.31736	0.2032	g/100cc
2.	Ethanol	Column 2:	18.89243	0.2028	g/100cc
3.	n-Propanol	Column 1:	47.62015	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.32131	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 16 Feb 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0812	0.0814	0.0002	0.0813	0.0805	
(g/100cc)	0.0794	0.0803	0.0009	0.0798		

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
0.080	0.076	0.084	0.004

	Reported Result <hr style="border-top: 1px dashed black;"/> 0.080	
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Calibration and control data are stored centrally.

Issued: 12/30/2016

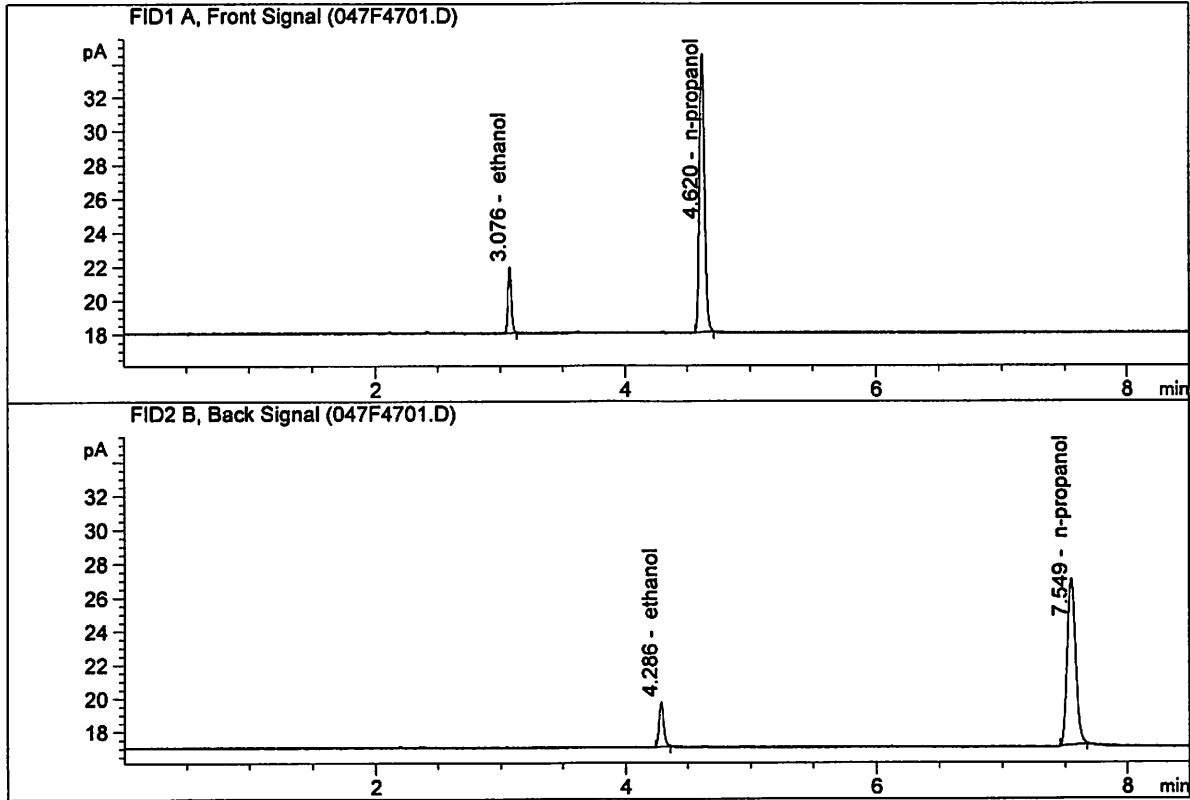
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

XC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : Feb 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

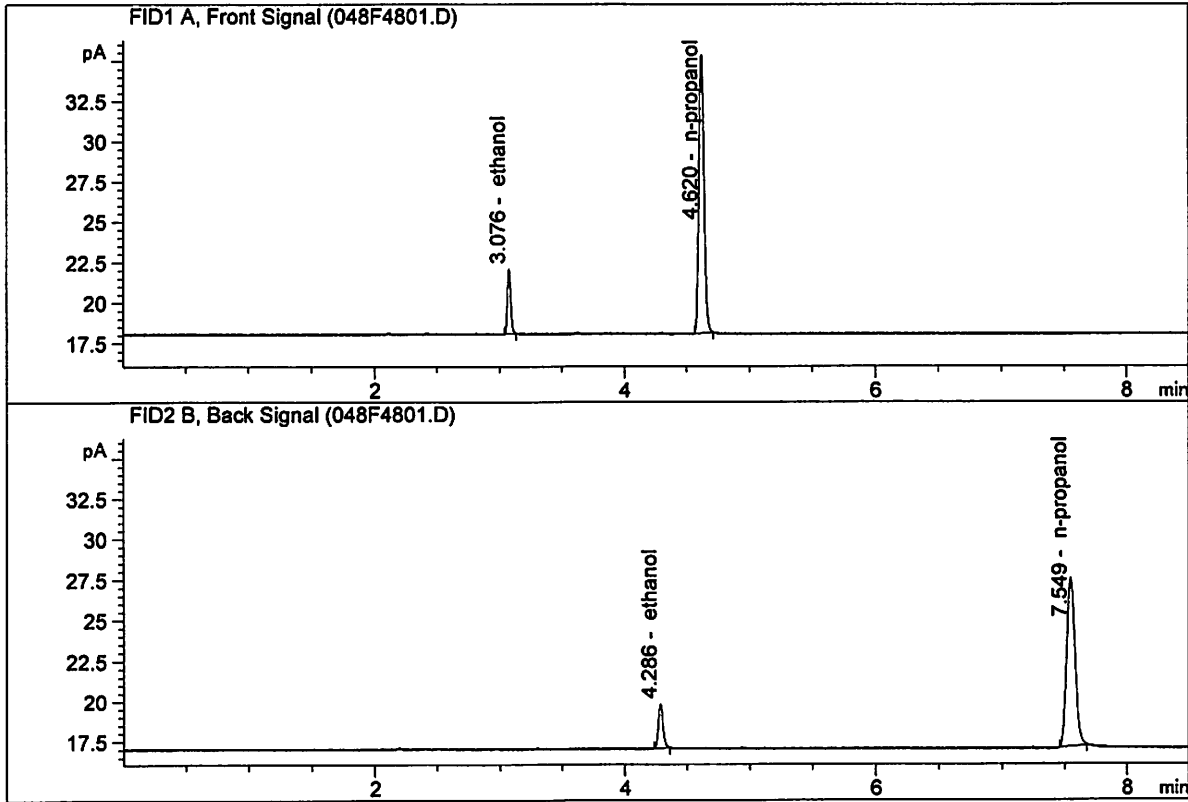


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.18152	0.0812	g/100cc
2.	Ethanol	Column 2:	7.17449	0.0814	g/100cc
3.	n-Propanol	Column 1:	46.75834	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.14974	1.0000	g/100cc

X

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : Feb 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

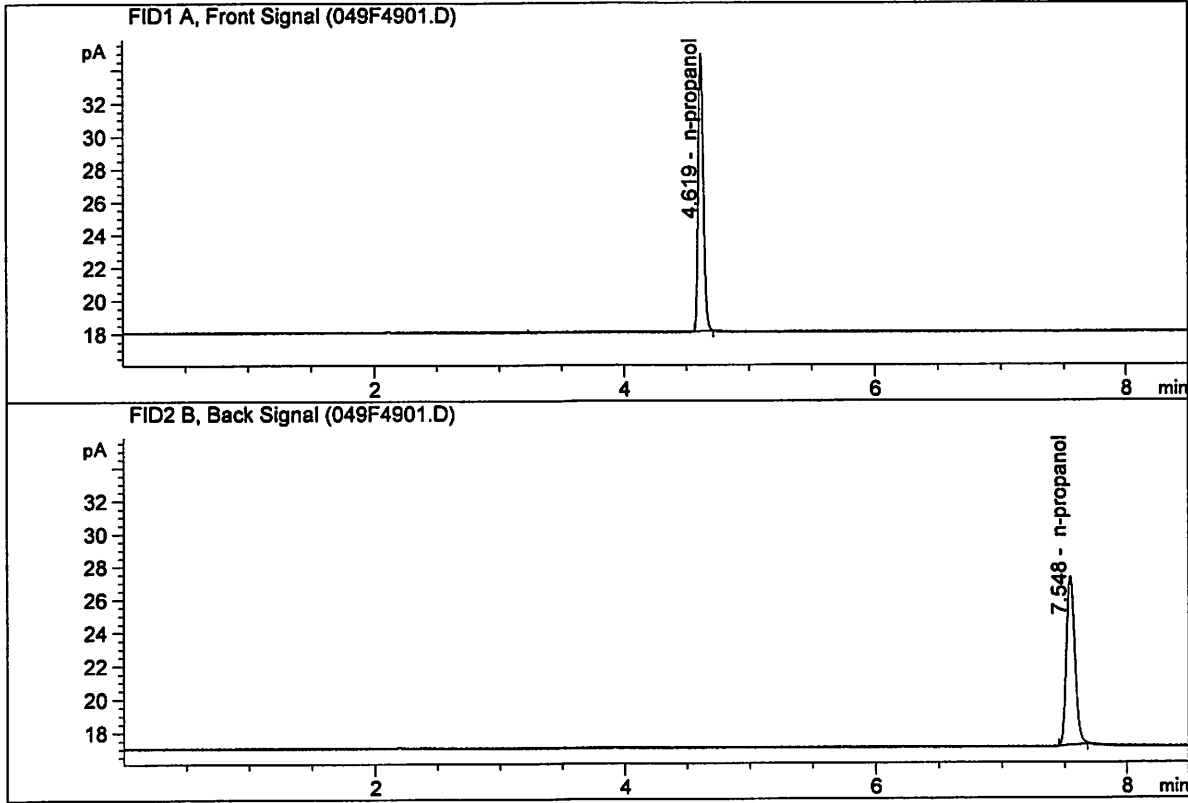


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.35081	0.0794	g/100cc
2.	Ethanol	Column 2:	7.41940	0.0803	g/100cc
3.	n-Propanol	Column 1:	48.98286	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.49558	1.0000	g/100cc

Handwritten signature or mark.

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Feb 16, 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:	47.74625	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.38252	1.0000	g/100cc

JK

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

Sequence table: C:\Chem32\1\Data\02-15-18_SAMPLES\02-15-18_SAMPLES 2018-02-15 15-55-45\02-15-18_SAMPLES.S
 Data directory path: C:\Chem32\1\Data\02-15-18_SAMPLES\02-15-18_SAMPLES 2018-02-15 15-55-45\
 Logbook: C:\Chem32\1\Data\02-15-18_SAMPLES\02-15-18_SAMPLES 2018-02-15 15-55-45\02-15-18_SAMPLES.LOG
 Sequence start: 2/15/2018 4:10:34 PM
 Sequence Operator: SYSTEM
 Operator: SYSTEM
 Method file name: C:\Chem32\1\Data\02-15-18_SAMPLES\02-15-18_SAMPLES 2018-02-15 15-55-45\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	M2018-0585-1-A	-	1.0000	007F0701.D		6
8	8	1	M2018-0585-1-B	-	1.0000	008F0801.D		6
9	9	1	M2018-0588-1-A	-	1.0000	009F0901.D		6
10	10	1	M2018-0588-1-B	-	1.0000	010F1001.D		6
11	11	1	M2018-0596-1-A	-	1.0000	011F1101.D		4
12	12	1	M2018-0596-1-B	-	1.0000	012F1201.D		5
13	13	1	M2018-0597-1-A	-	1.0000	013F1301.D		4
14	14	1	M2018-0597-1-B	-	1.0000	014F1401.D		4
15	15	1	M2018-0598-1-A	-	1.0000	015F1501.D		4
16	16	1	M2018-0598-1-B	-	1.0000	016F1601.D		4
17	17	1	M2018-0611-1-A	-	1.0000	017F1701.D		6
18	18	1	M2018-0611-1-B	-	1.0000	018F1801.D		6
19	19	1	M2018-0614-1-A	-	1.0000	019F1901.D		6
20	20	1	M2018-0614-1-B	-	1.0000	020F2001.D		6
21	21	1	M2018-0618-1-A	-	1.0000	021F2101.D		6
22	22	1	M2018-0618-1-B	-	1.0000	022F2201.D		6
23	23	1	M2018-0621-1-A	-	1.0000	023F2301.D		6
24	24	1	M2018-0621-1-B	-	1.0000	024F2401.D		6
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	M2018-0622-1-A	-	1.0000	027F2701.D		6
28	28	1	M2018-0622-1-B	-	1.0000	028F2801.D		6
29	29	1	M2018-0654-1-A	-	1.0000	029F2901.D		6
30	30	1	M2018-0654-1-B	-	1.0000	030F3001.D		6
31	31	1	M2018-0660-1-A	-	1.0000	031F3101.D		6
32	32	1	M2018-0660-1-B	-	1.0000	032F3201.D		6
33	33	1	M2018-0675-1-A	-	1.0000	033F3301.D		2
34	34	1	M2018-0675-1-B	-	1.0000	034F3401.D		2
35	35	1	M2018-0686-1-A	-	1.0000	035F3501.D		6
36	36	1	M2018-0686-1-B	-	1.0000	036F3601.D		6
37	37	1	M2018-0687-1-A	-	1.0000	037F3701.D		6
38	38	1	M2018-0687-1-B	-	1.0000	038F3801.D		6
39	39	1	M2018-0692-1-A	-	1.0000	039F3901.D		4
40	40	1	M2018-0692-1-B	-	1.0000	040F4001.D		4
41	41	1	M2018-0693-1-A	-	1.0000	041F4101.D		4
42	42	1	M2018-0693-1-B	-	1.0000	042F4201.D		4
43	43	1	P2018-0328-2-A	-	1.0000	043F4301.D		6

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
44	44	1	P2018-0328-2-B	-	1.0000	044F4401.D		6
45	45	1	P2018-0363-1-A	-	1.0000	045F4501.D		2
46	46	1	P2018-0363-1-B	-	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\02-15-18_SAMPLES\02-15-18_SAMPLES 2018-02-15 15-55-45 \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

26