

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 Dates: 04/11/2018

Calibration: 04/06/2018

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0771 g/100cc
					0.0813 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-.2222	0.2008 g/100cc
					g/100cc
Multi-Component mixture:		Exp date: Sept 2020	Lot #	FN06041503	OK
Curve Fit:		Column 1	0.99997	Column2	0.99987

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	0.0511	0.0529	0.0018	0.052
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.1007	0.1006	0.0001	0.1006
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1979	0.1961	0.0018	0.197
0.300	Jun-20	FN06051501	0.300	0.270 - 0.330	0.2995	0.2979	0.0016	0.2987
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5009	0.5024	0.0015	0.5016

Aqueous Controls

Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.080 0.5 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

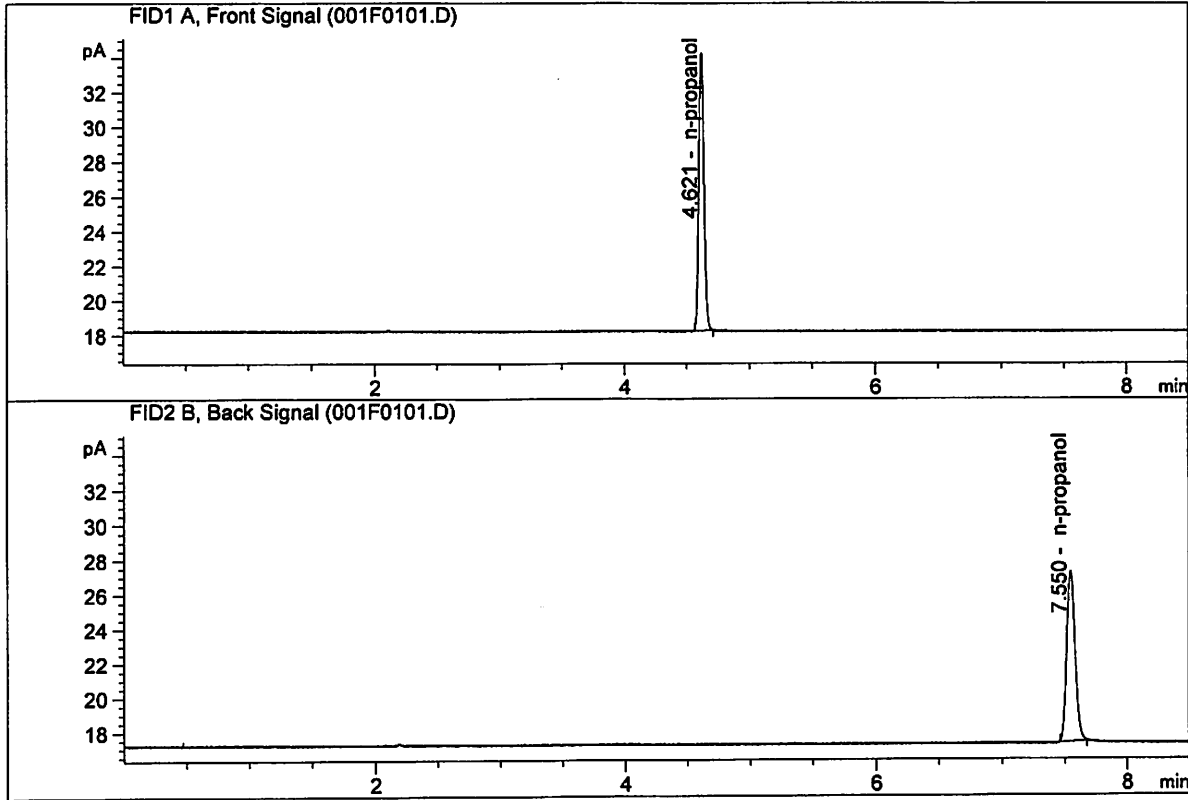
Issuing Authority: Quality Manager

Worklist: 2323

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2018-1711	1	112073	Alcohol Analysis	
M2018-1711	2	112077	Alcohol Analysis	
M2018-1712	1	112078	Alcohol Analysis	
M2018-1713	1	112082	Alcohol Analysis	
M2018-1714	1	112083	Alcohol Analysis	
M2018-1716	1	112085	Alcohol Analysis	
M2018-1717	1	112090	Alcohol Analysis	
M2018-1729	1	112108	Alcohol Analysis	
M2018-1755	1	112175	Alcohol Analysis	
M2018-1756	1	112179	Alcohol Analysis	
M2018-1810	1	112388	Alcohol Analysis	
M2018-1810	2	112392	Alcohol Analysis	
M2018-1819	1	112473	Alcohol Analysis	
M2018-1820	1	112474	Alcohol Analysis	
M2018-1838	1	112603	Alcohol Analysis	
M2018-1840	1	112664	Alcohol Analysis	
P2018-0871	1	110737	Alcohol Analysis	
P2018-0934	1	112895	Alcohol Analysis	
P2018-1007	1	111954	Alcohol Analysis	

ISP Forensic Services Blood Alcohol Report

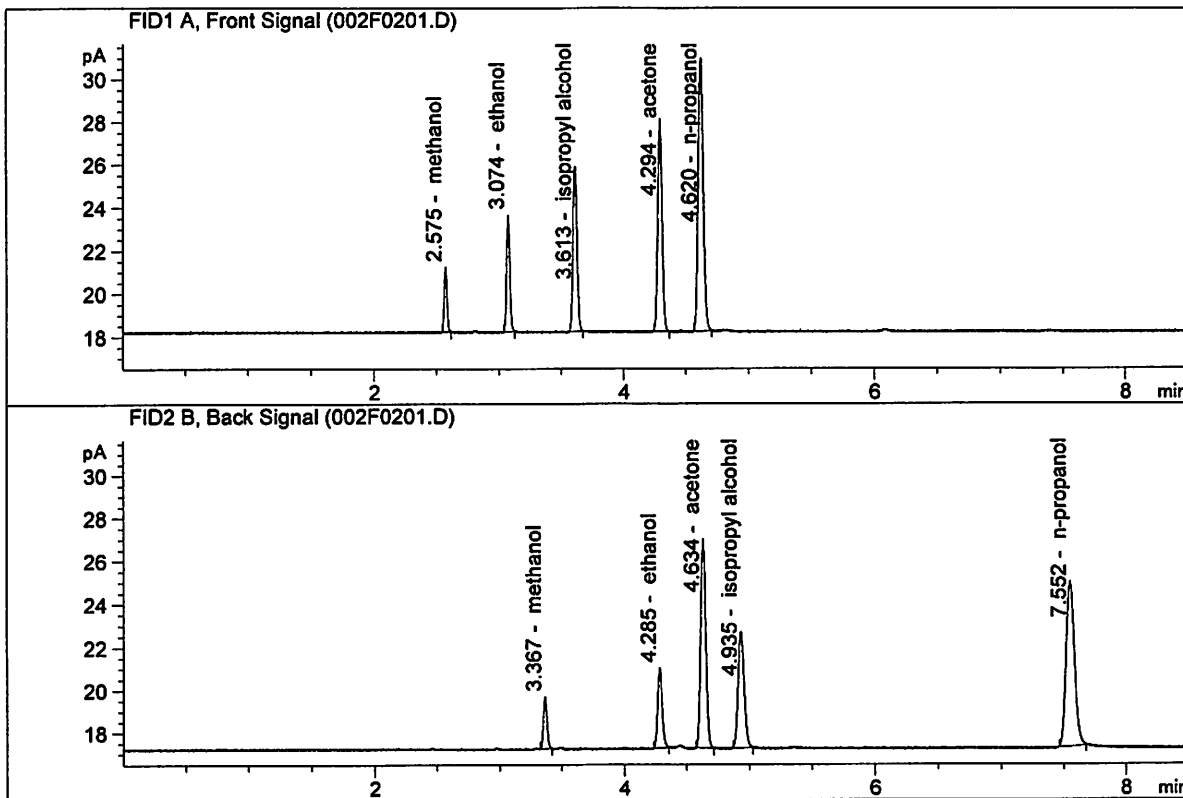
Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	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:	45.65768	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.61004	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041503
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.64317	0.1433	g/100cc
2.	Ethanol	Column 2:	9.92651	0.1431	g/100cc
3.	n-Propanol	Column 1:	35.87641	1.0000	g/100cc
4.	n-Propanol	Column 2:	36.73403	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 11 Apr 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0775	0.0784	0.0009	0.0779	0.0771	
(g/100cc)	0.0758	0.0767	0.0009	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: MDL600HC11378

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.

Issued: 12/30/2016

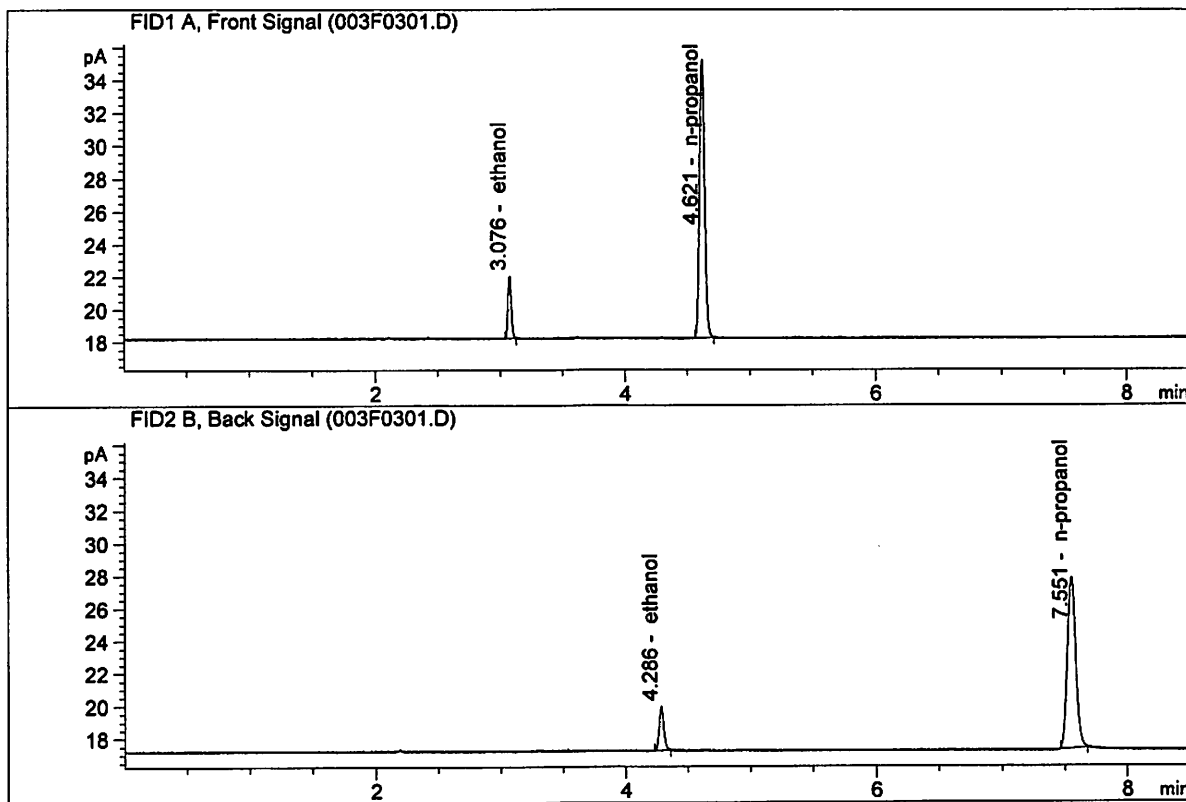
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

JC

ISP Forensic Services Blood Alcohol Report

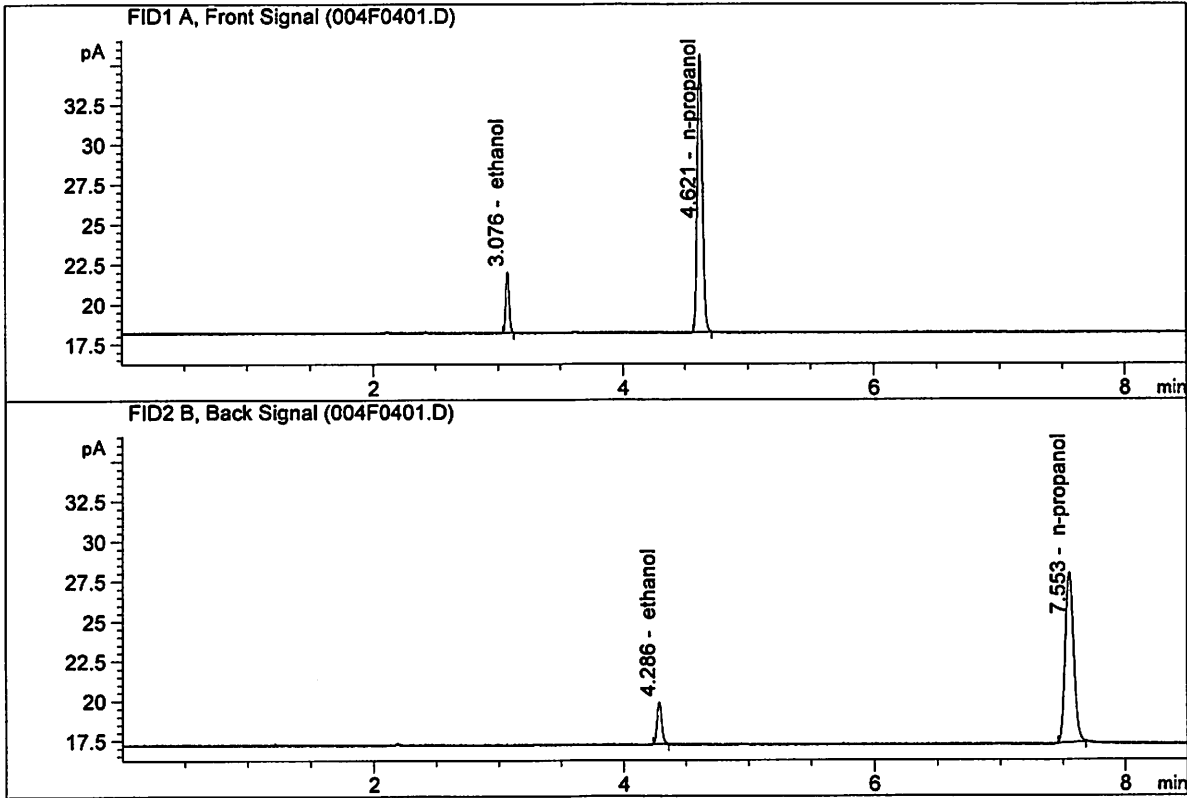
Sample Name : QC1-1-A
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.03926	0.0775	g/100cc
2.	Ethanol	Column 2:	7.22927	0.0784	g/100cc
3.	n-Propanol	Column 1:	48.59067	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.17744	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.03377	0.0758	g/100cc
2.	Ethanol	Column 2:	7.21865	0.0767	g/100cc
3.	n-Propanol	Column 1:	49.67287	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.33649	1.0000	g/100cc

26

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510

Analysis Date(s): 11 Apr 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0800	0.0807	0.0007	0.0803	0.0801
(g/100cc)	0.0796	0.0801	0.0005	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: MDL600HC11378

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
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Calibration and control data are stored centrally.

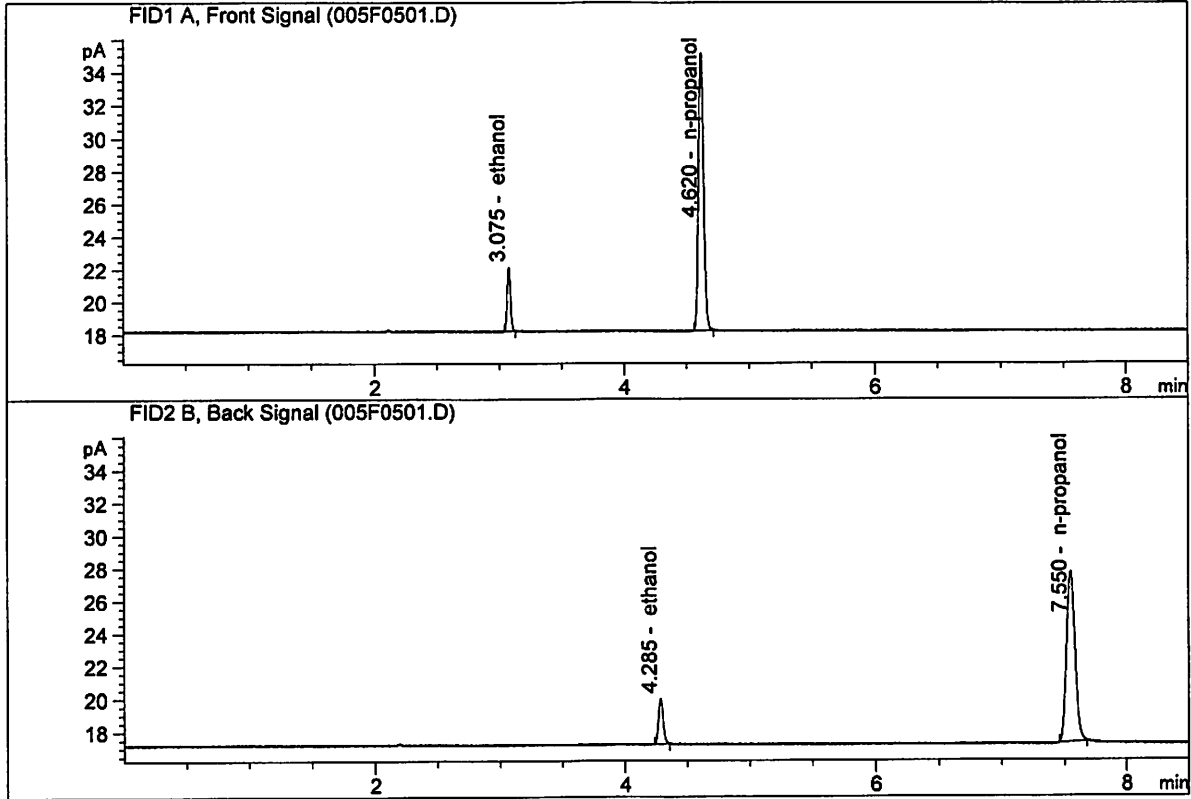
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

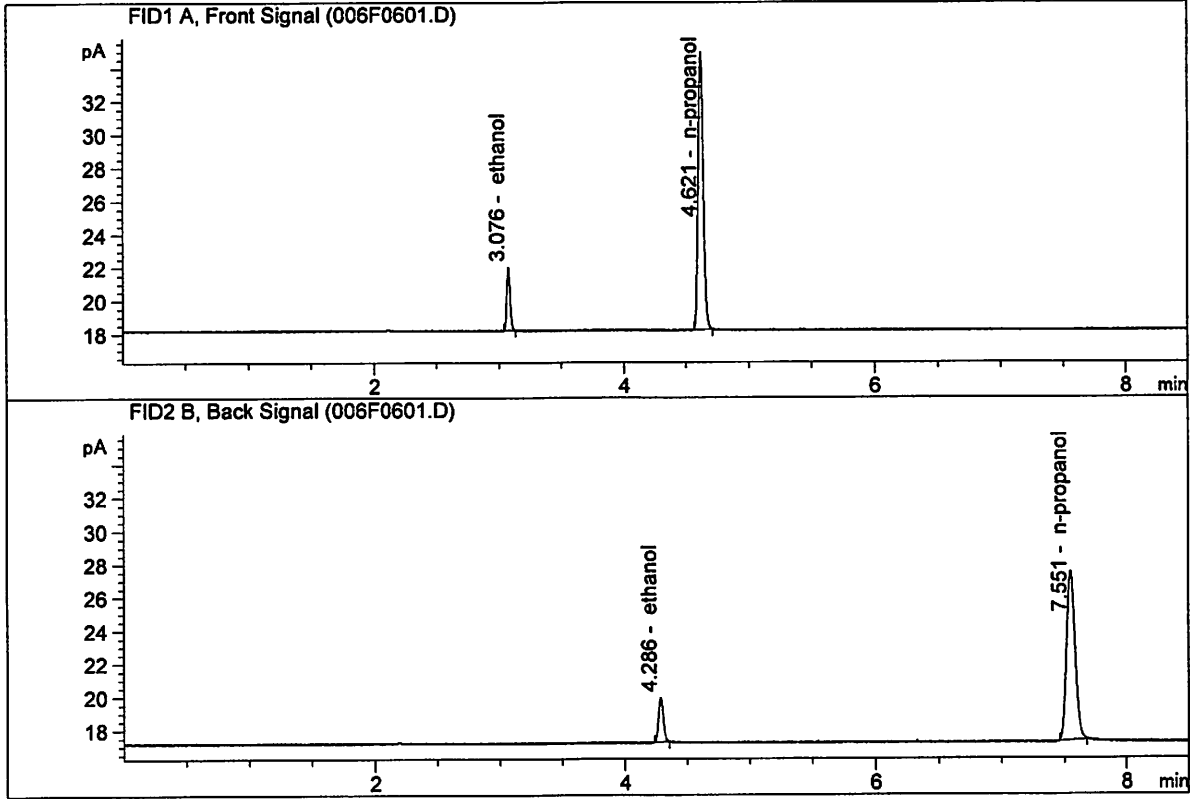


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.22545	0.0800	g/100cc
2.	Ethanol	Column 2:	7.38622	0.0807	g/100cc
3.	n-Propanol	Column 1:	48.30816	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.73905	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.07357	0.0796	g/100cc
2.	Ethanol	Column 2:	7.21557	0.0801	g/100cc
3.	n-Propanol	Column 1:	47.56427	1.0000	g/100cc
4.	n-Propanol	Column 2:	48.98476	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 11 Apr 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2002	0.2003	0.0001	0.2002	0.2008	
(g/100cc)	0.2017	0.2013	0.0004	0.2015		

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: MDL600HC11378

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

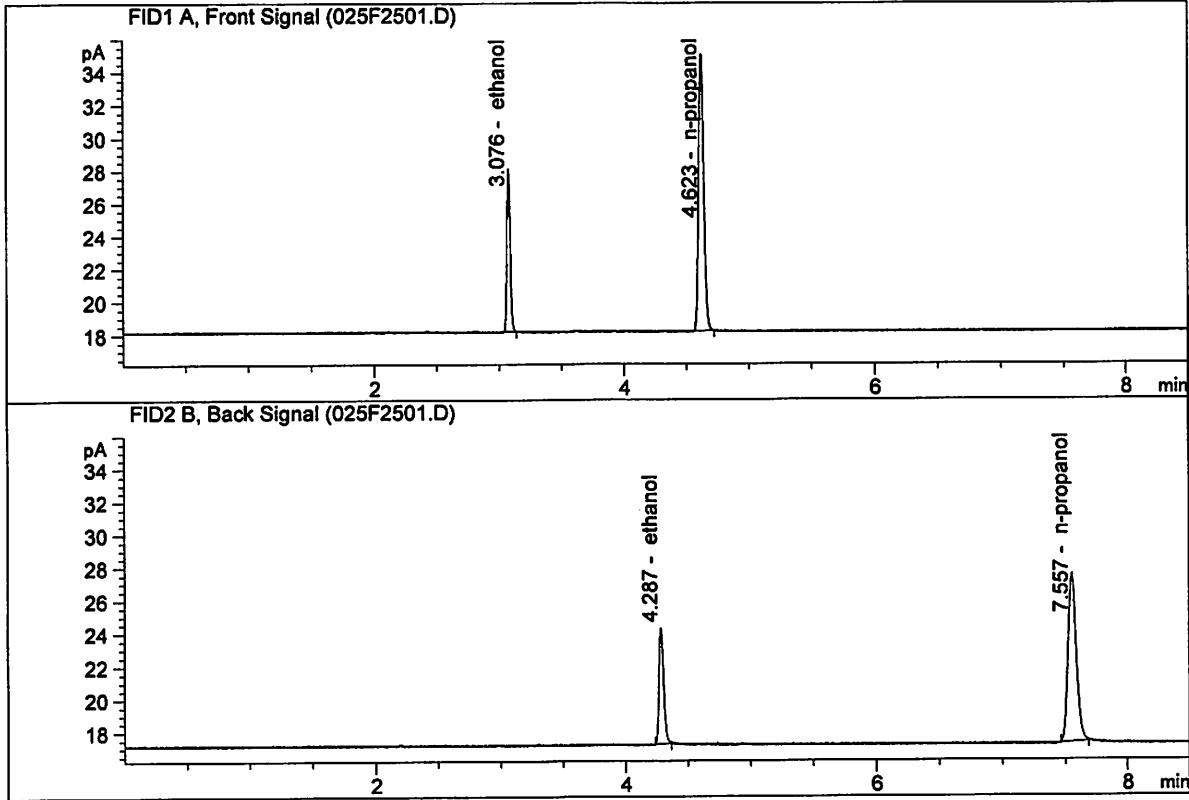
	Reported Result	
	0.200	

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

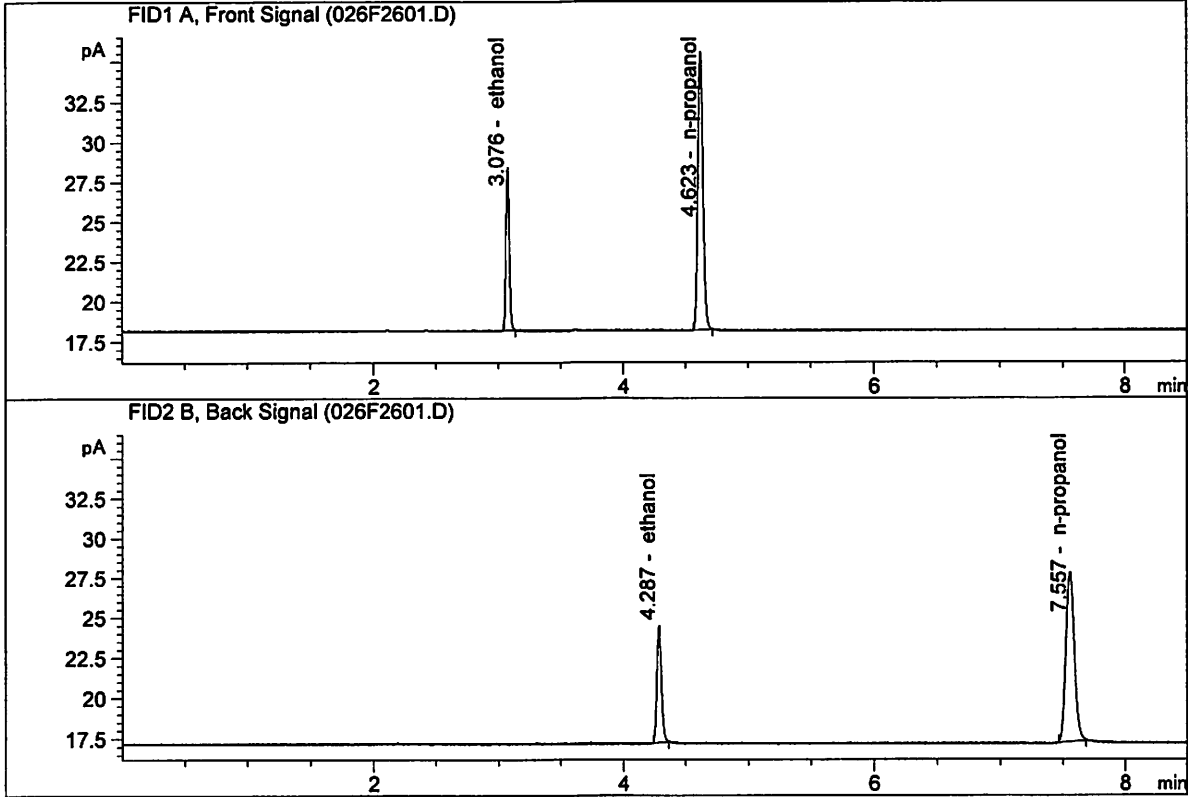
Sample Name : QC2-1-A
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.12138	0.2002	g/100cc
2.	Ethanol	Column 2:	18.77601	0.2003	g/100cc
3.	n-Propanol	Column 1:	48.20134	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.18796	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.74310	0.2017	g/100cc
2.	Ethanol	Column 2:	19.38420	0.2013	g/100cc
3.	n-Propanol	Column 1:	49.48906	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.51774	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 11 Apr 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0812	0.0822	0.0010	0.0817	0.0813	
(g/100cc)	0.0807	0.0813	0.0006	0.0810		

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: MDL600HC11378

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.

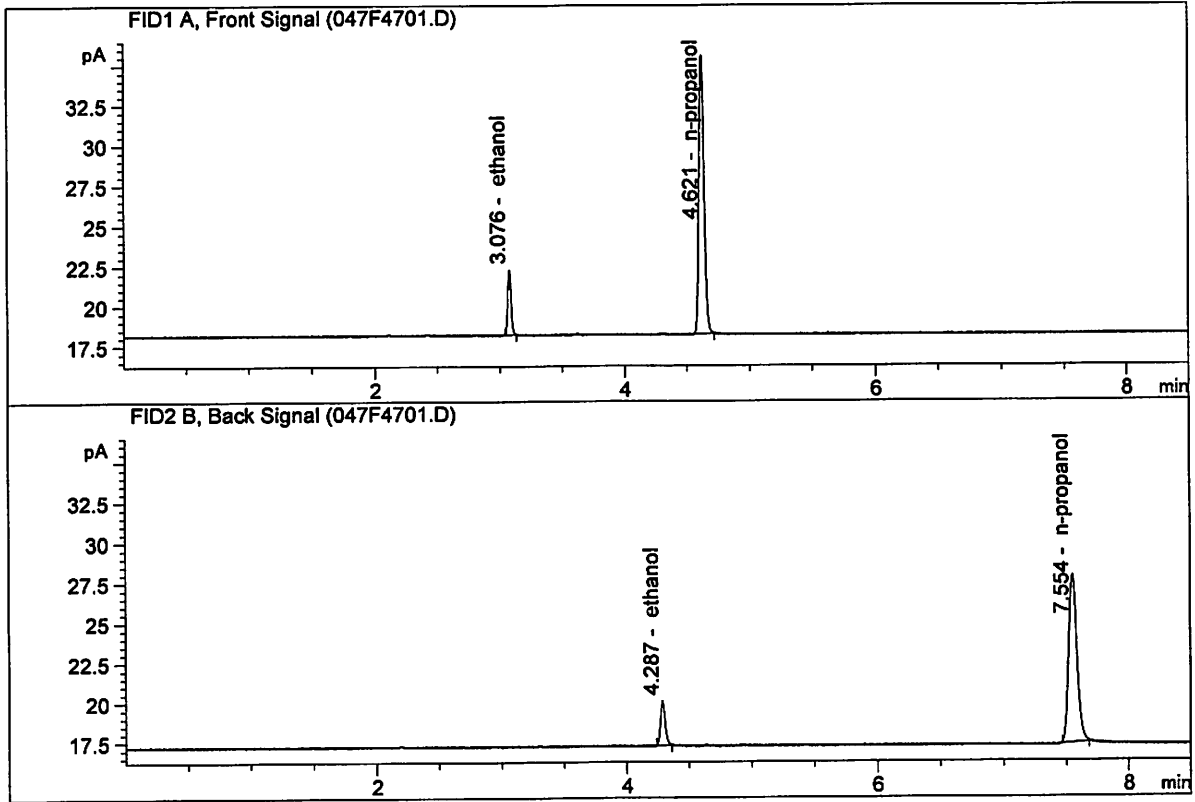
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

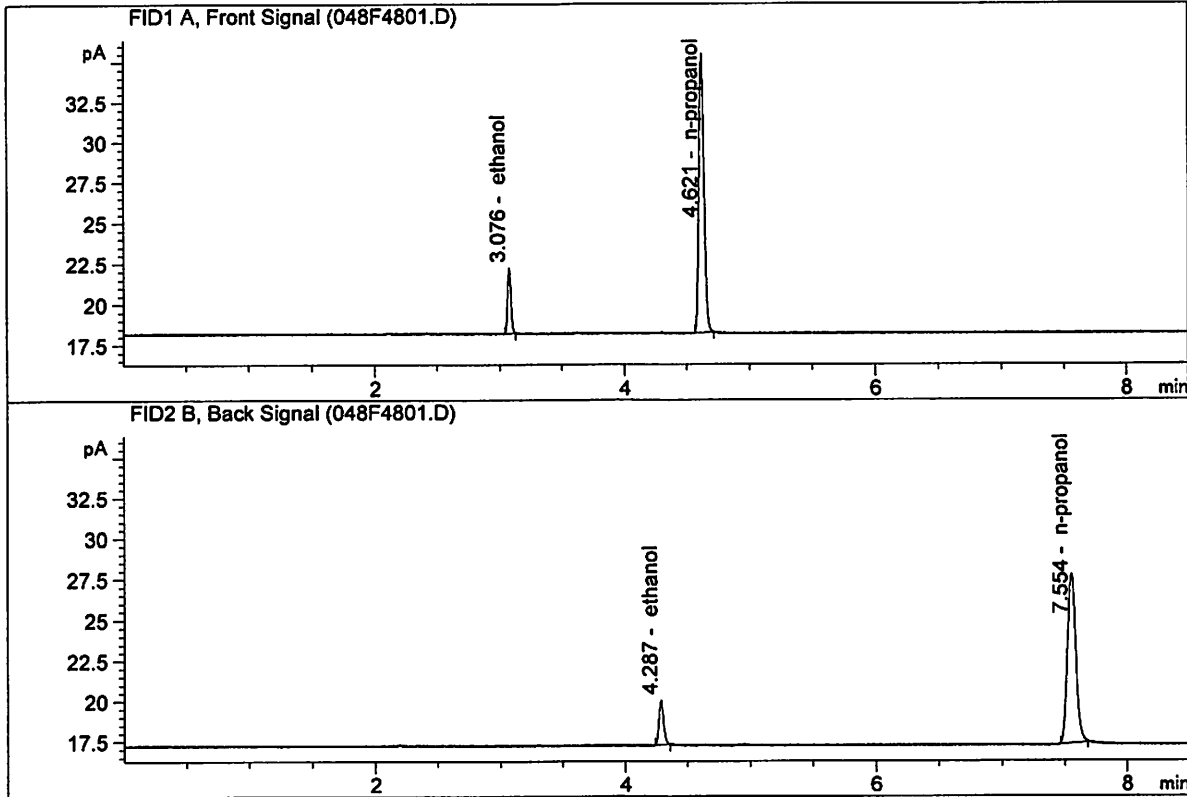
Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.50541	0.0812	g/100cc
2.	Ethanol	Column 2:	7.60527	0.0822	g/100cc
3.	n-Propanol	Column 1:	49.45259	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.23714	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : Apr 11, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

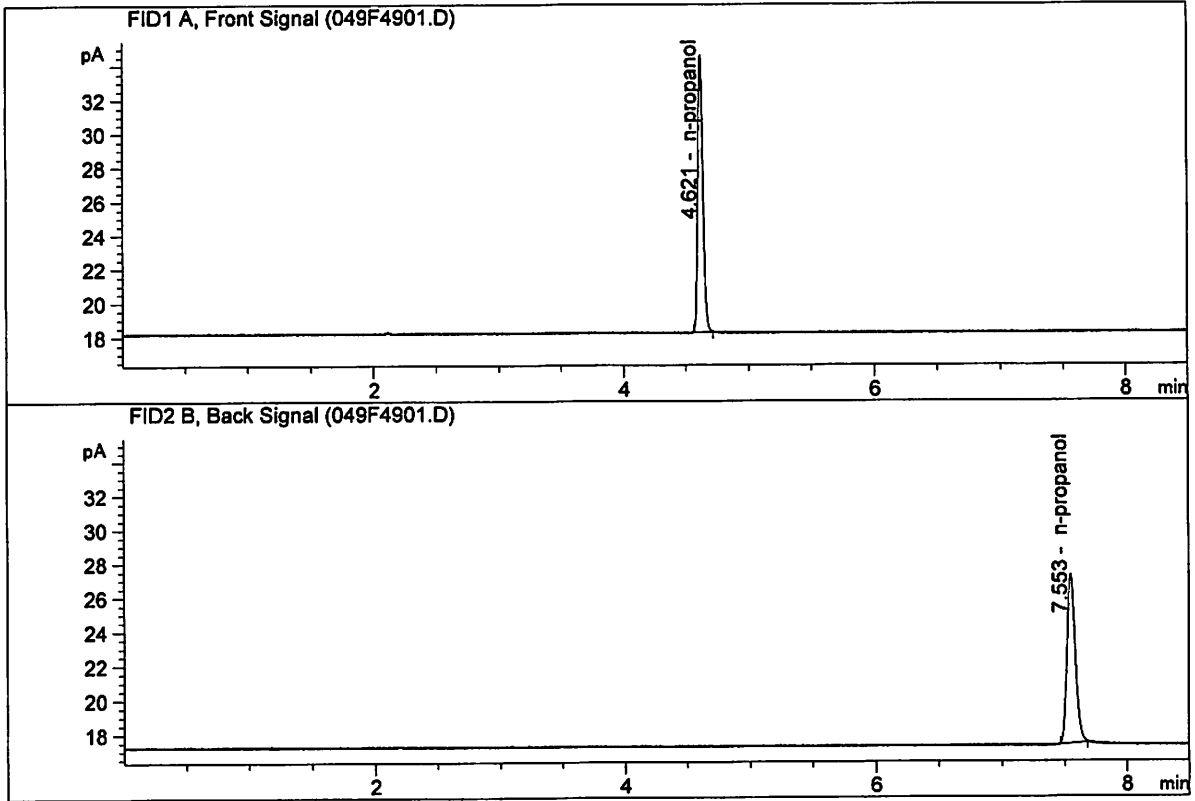


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.39930	0.0807	g/100cc
2.	Ethanol	Column 2:	7.48998	0.0813	g/100cc
3.	n-Propanol	Column 1:	49.07074	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.02761	1.0000	g/100cc

JK

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Apr 11, 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:	46.71508	1.0000	g/100cc
4.	n-Propanol	Column 2:	47.43363	1.0000	g/100cc

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

Sequence table: C:\Chem32\1\Data\04-11-18_SAMPLES\04-11-18_SAMPLES 2018-04-11 13-47-51\04-11-18_SAMPLES.S
 Data directory path: C:\Chem32\1\Data\04-11-18_SAMPLES\04-11-18_SAMPLES 2018-04-11 13-47-51\
 Logbook: C:\Chem32\1\Data\04-11-18_SAMPLES\04-11-18_SAMPLES 2018-04-11 13-47-51\04-11-18_SAMPLES.LOG
 Sequence start: 4/11/2018 2:02:40 PM
 Sequence Operator: SYSTEM
 Operator: SYSTEM
 Method file name: C:\Chem32\1\Data\04-11-18_SAMPLES\04-11-18_SAMPLES 2018-04-11 13-47-51\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 FN10281510-	-	1.0000	005F0501.D	4
6	6	1	0.08 FN10281510-	-	1.0000	006F0601.D	4
7	7	1	M2018-1711-1-A	-	1.0000	007F0701.D	2
8	8	1	M2018-1711-1-B	-	1.0000	008F0801.D	2
9	9	1	M2018-1711-2-A	-	1.0000	009F0901.D	2
10	10	1	M2018-1711-2-B	-	1.0000	010F1001.D	2
11	11	1	M2018-1712-1-A	-	1.0000	011F1101.D	4
12	12	1	M2018-1712-1-B	-	1.0000	012F1201.D	4
13	13	1	M2018-1713-1-A	-	1.0000	013F1301.D	5
14	14	1	M2018-1713-1-B	-	1.0000	014F1401.D	4
15	15	1	M2018-1714-1-A	-	1.0000	015F1501.D	4
16	16	1	M2018-1714-1-B	-	1.0000	016F1601.D	4
17	17	1	M2018-1716-1-A	-	1.0000	017F1701.D	4
18	18	1	M2018-1716-1-B	-	1.0000	018F1801.D	4
19	19	1	M2018-1717-1-A	-	1.0000	019F1901.D	2
20	20	1	M2018-1717-1-B	-	1.0000	020F2001.D	2
21	21	1	M2018-1729-1-A	-	1.0000	021F2101.D	4
22	22	1	M2018-1729-1-B	-	1.0000	022F2201.D	4
23	23	1	M2018-1755-1-A	-	1.0000	023F2301.D	2
24	24	1	M2018-1755-2-B	-	1.0000	024F2401.D	2
25	25	1	QC2-1-A <i>M2018-1755-1-B</i>	-	1.0000	025F2501.D	4
26	26	1	QC2-1-B	-	1.0000	026F2601.D	4
27	27	1	M2018-1756-1-A	-	1.0000	027F2701.D	6
28	28	1	M2018-1756-1-B	-	1.0000	028F2801.D	6
29	29	1	M2018-1810-1-A	-	1.0000	029F2901.D	2
30	30	1	M2018-1810-1-B	-	1.0000	030F3001.D	2
31	31	1	M2018-1810-2-A	-	1.0000	031F3101.D	2
32	32	1	M2018-1810-2-B	-	1.0000	032F3201.D	2
33	33	1	M2018-1819-1-A	-	1.0000	033F3301.D	4
34	34	1	M2018-1819-1-B	-	1.0000	034F3401.D	4
35	35	1	M2018-1820-1-A	-	1.0000	035F3501.D	2
36	36	1	M2018-1820-1-B	-	1.0000	036F3601.D	2
37	37	1	M2018-1838-1-A	-	1.0000	037F3701.D	6
38	38	1	M2018-1838-1-B	-	1.0000	038F3801.D	6
39	39	1	M2018-1840-1-A	-	1.0000	039F3901.D	6
40	40	1	M2018-1840-1-B	-	1.0000	040F4001.D	6
41	41	1	P2018-0871-1-A	-	1.0000	041F4101.D	6
42	42	1	P2018-0871-1-B	-	1.0000	042F4201.D	6
43	43	1	P2018-0934-1-A	-	1.0000	043F4301.D	2

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Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
44	44	1	P2018-0934-1-B	-	1.0000	044F4401.D		2
45	45	1	P2018-1007-1-A	-	1.0000	045F4501.D		6
46	46	1	P2018-1007-1-B	-	1.0000	046F4601.D		6
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\04-11-18_SAMPLES\04-11-18_SAMPLES 2018-04-11 13-47-51 \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