

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): 7/16/18-7/17/18

Calibration Date: 07/10/2018

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results	
Level 1	Jul-18	1407031	0.0780	0.0702-0.0858	0.0773 g/100cc	
					0.0804 g/100cc	
					0.2011 g/100cc	
Level 2	Jul-18	1407032	0.2020	0.1818-0.2222	0.2077 g/100cc	
					g/100cc	
Multi-Component mixture:			Exp date: Sept 2020	Lot #	FN06041503	
Curve Fit:			Column 1	0.99999	Column2	0.99997
					OK	

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	0.0503	0.0516	0.0013	0.0509
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Aug-21	FN08101601	0.100	0.090 - 0.110	0.0998	0.0993	0.0005	0.0995
0.200	Apr-21	FN03301601	0.200	0.180 - 0.220	0.1991	0.1982	0.0009	0.1986
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3011	0.3004	0.0007	0.3007
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Sep-21	FN08031602	0.500	0.450 - 0.550	0.4997	0.5004	0.0007	0.5

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 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

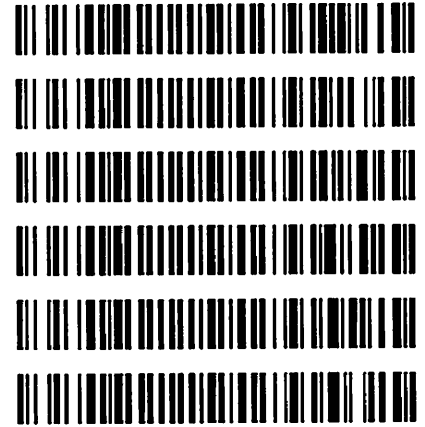
Issuing Authority: Quality Manager

Worklist: 2574

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>	
M2018-3374	1	120580	Alcohol Analysis	
M2018-3375	1	120581	Alcohol Analysis	
M2018-3376	1	120582	Alcohol Analysis	
M2018-3377	1	120586	Alcohol Analysis	
M2018-3378	1	120587	Alcohol Analysis	
M2018-3391	1	120664	Alcohol Analysis	
M2018-3405	1	120695	Alcohol Analysis	
M2018-3406	1	120696	Alcohol Analysis	
M2018-3407	1	120730	Alcohol Analysis	
M2018-3408	1	120735	Alcohol Analysis	
M2018-3412	1	120744	Alcohol Analysis	
M2018-3413	1	120745	Alcohol Analysis	
M2018-3414	1	120749	Alcohol Analysis	
M2018-3416	1	120751	Alcohol Analysis	
M2018-3425	4	120830	Alcohol Analysis	
M2018-3426	1	120832	Alcohol Analysis	
M2018-3429	1	120838	Alcohol Analysis	
M2018-3430	1	120839	Alcohol Analysis	
M2018-3431	1	120843	Alcohol Analysis	
M2018-3432	1	120850	Alcohol Analysis	
M2018-3443	1	120881	Alcohol Analysis	
M2018-3444	1	120882	Alcohol Analysis	
M2018-3449	1	120923	Alcohol Analysis	

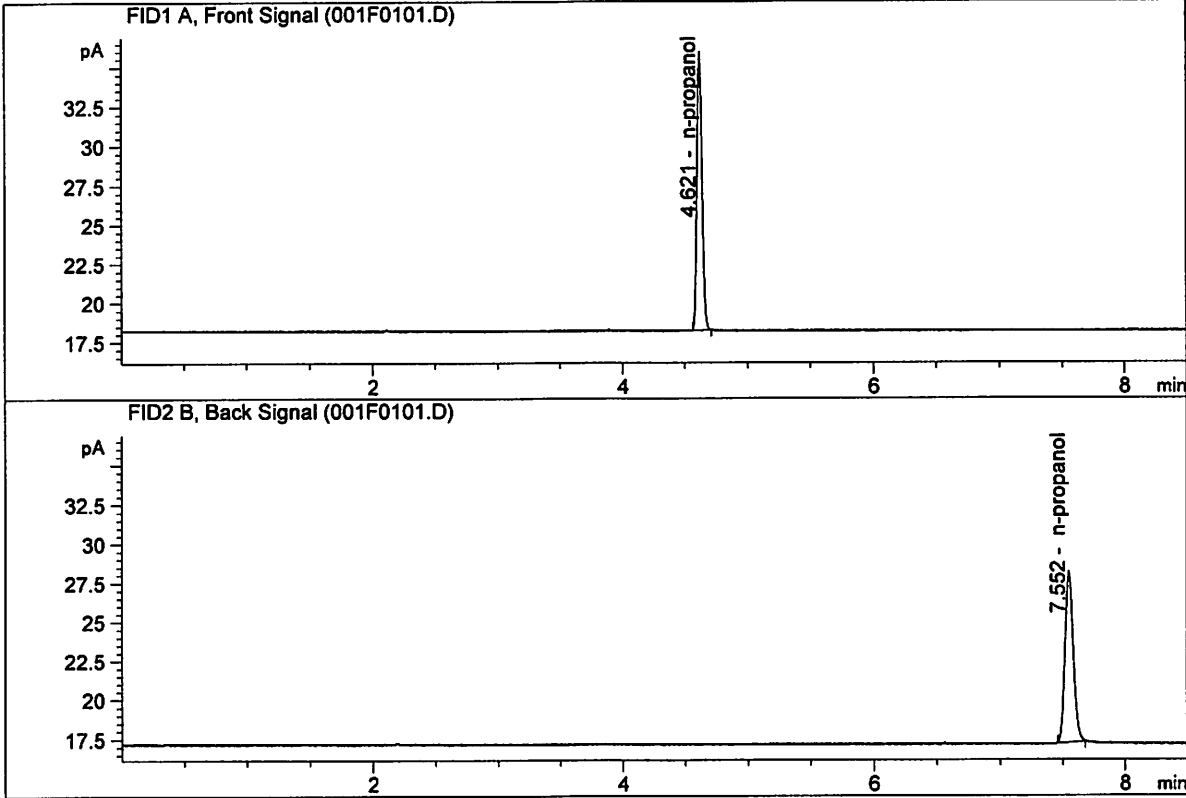
Worklist: 2574

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
M2018-3450	1	120924	Alcohol Analysis
M2018-3451	1	120928	Alcohol Analysis
M2018-3452	1	120935	Alcohol Analysis
M2018-3468	1	120992	Alcohol Analysis
M2018-3469	1	120994	Alcohol Analysis
M2018-3470	1	120995	Alcohol Analysis



ISP Forensic Services Blood Alcohol Report

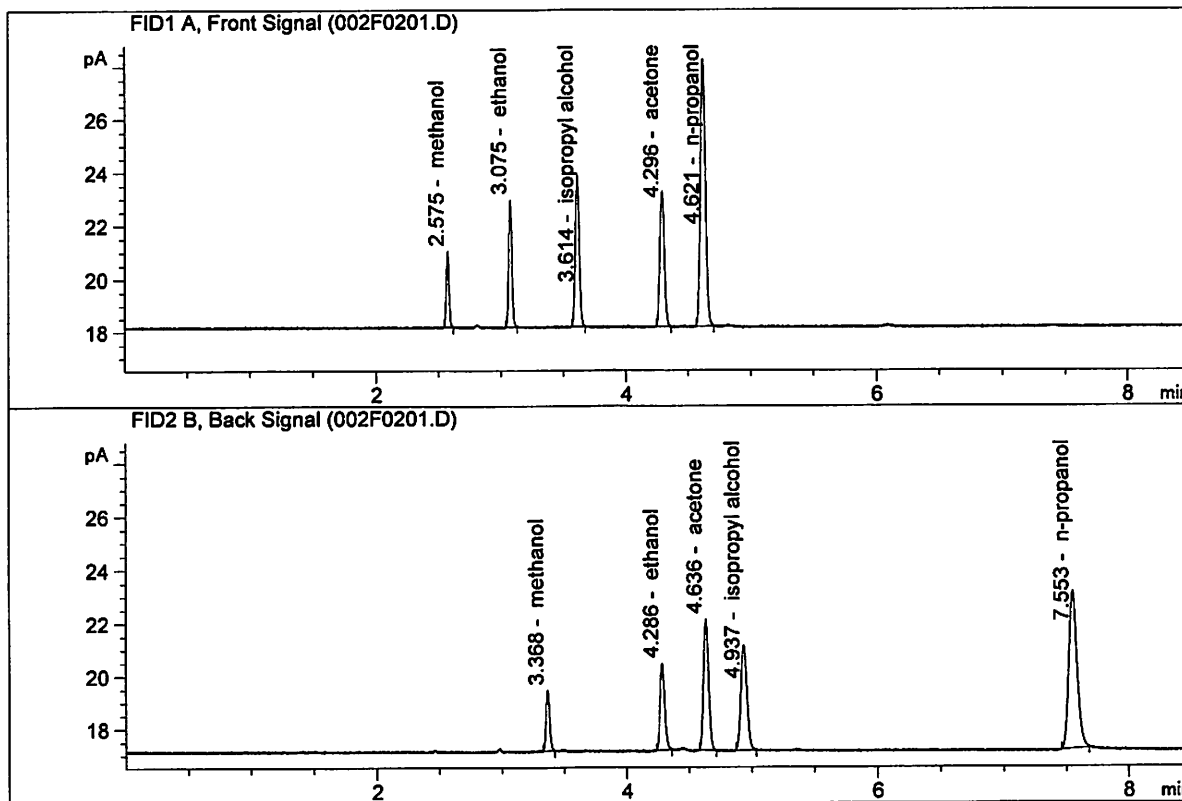
Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Jul 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	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:	50.33117	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.63925	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041503
 Laboratory : Meridian
 Injection Date : Jul 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.46903	0.1589	g/100cc
2.	Ethanol	Column 2:	8.70535	0.1580	g/100cc
3.	n-Propanol	Column 1:	28.23533	1.0000	g/100cc
4.	n-Propanol	Column 2:	28.82870	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 16 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0770	0.0774	0.0004	0.0772	0.0773	
(g/100cc)	0.0769	0.0779	0.0010	0.0774		

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.

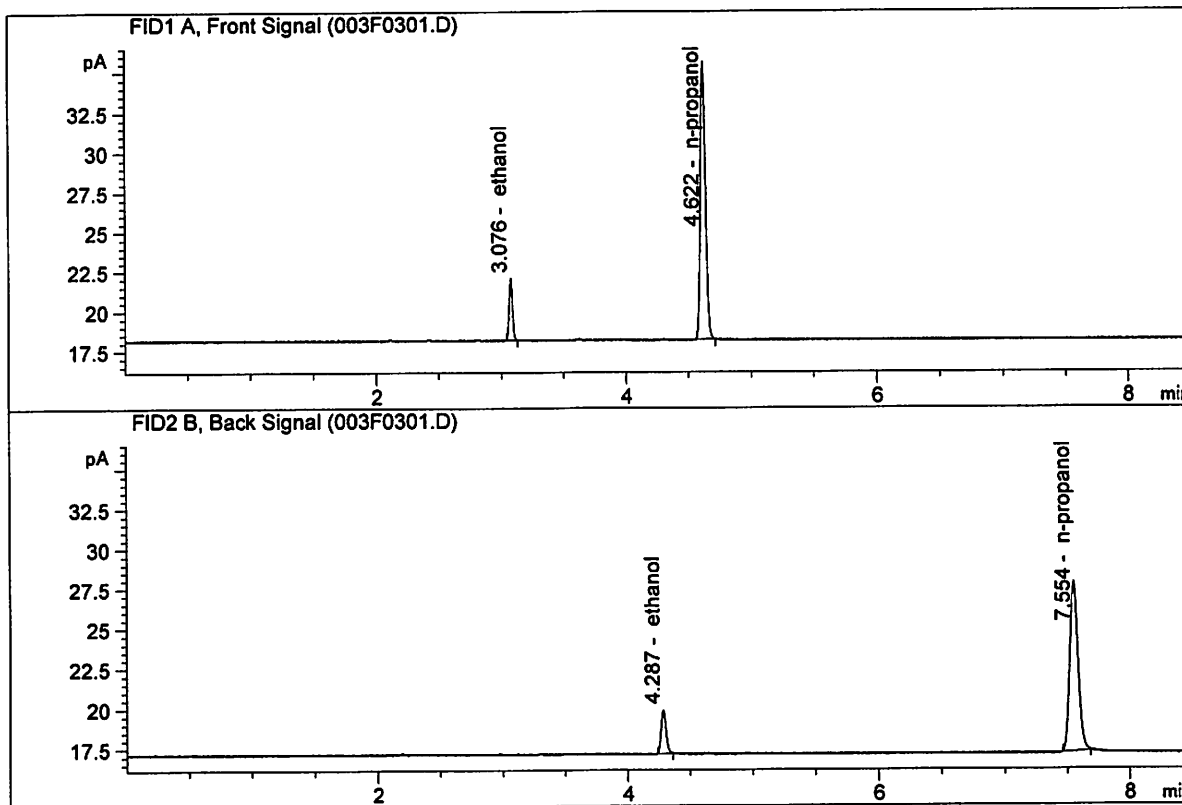
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
 Laboratory : Meridian
 Injection Date : Jul 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

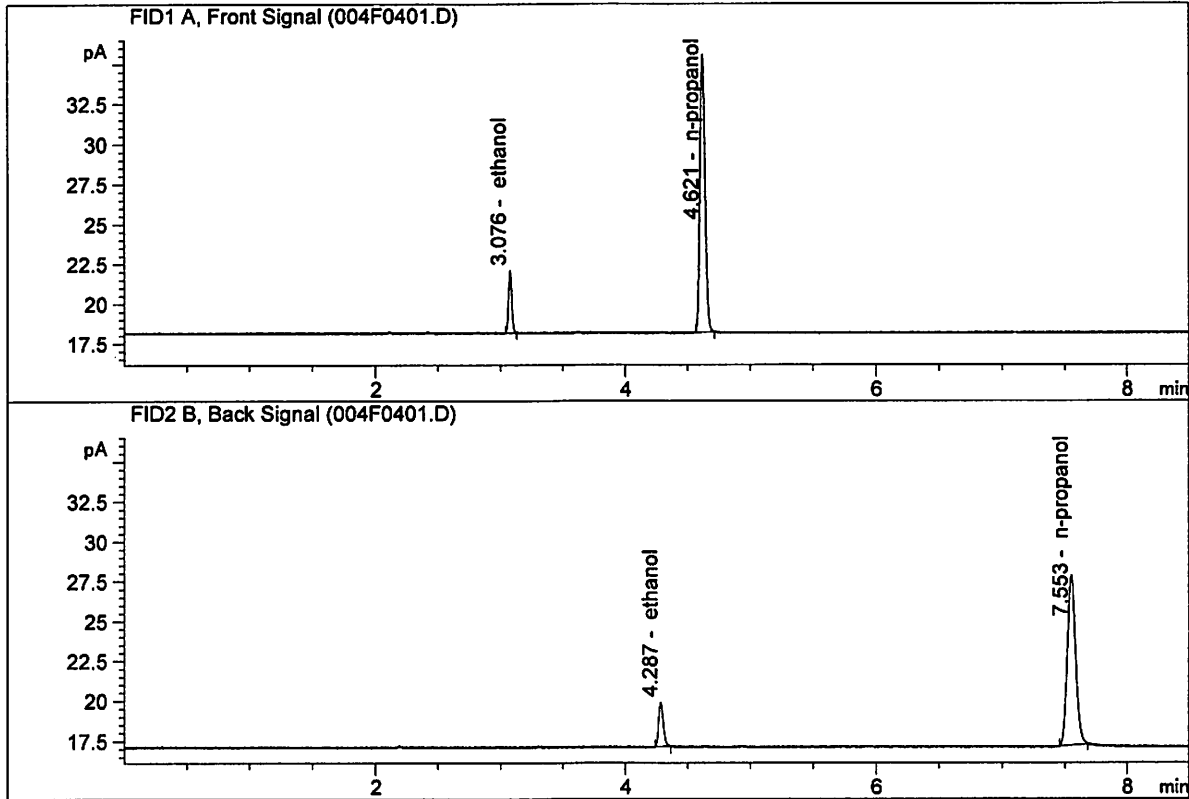


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.13338	0.0770	g/100cc
2.	Ethanol	Column 2:	7.35118	0.0774	g/100cc
3.	n-Propanol	Column 1:	49.40666	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.19810	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
 Laboratory : Meridian
 Injection Date : Jul 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.13216	0.0769	g/100cc
2.	Ethanol	Column 2:	7.39873	0.0779	g/100cc
3.	n-Propanol	Column 1:	49.50967	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.18282	1.0000	g/100cc

2

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510

Analysis Date(s): 16 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0797	0.0800	0.0003	0.0798	0.0802
(g/100cc)	0.0806	0.0808	0.0002	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.

Issued: 12/30/2016

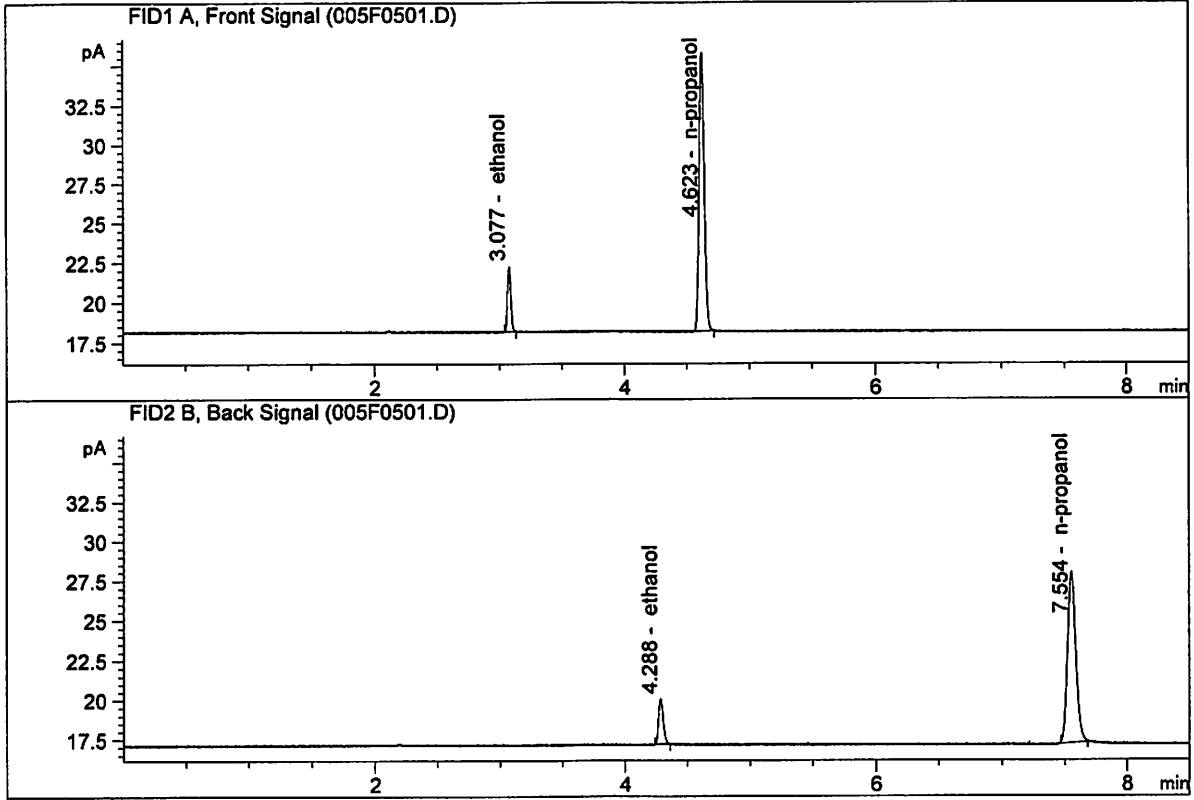
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

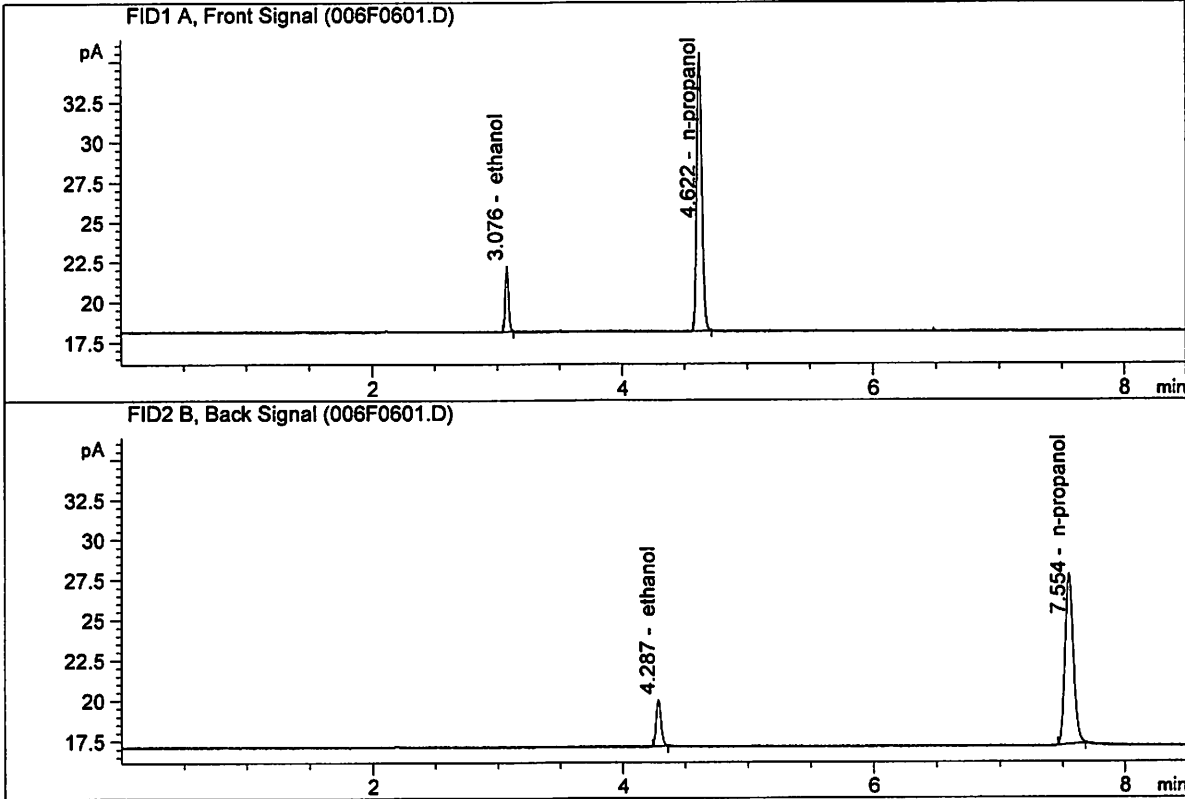
Sample Name : 0.08 FN10281510-A
 Laboratory : Meridian
 Injection Date : Jul 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.49440	0.0797	g/100cc
2.	Ethanol	Column 2:	7.70185	0.0800	g/100cc
3.	n-Propanol	Column 1:	50.16016	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.77829	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
 Laboratory : Meridian
 Injection Date : Jul 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.44687	0.0806	g/100cc
2.	Ethanol	Column 2:	7.63592	0.0808	g/100cc
3.	n-Propanol	Column 1:	49.26245	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.77772	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 16 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2022	0.2028	0.0006	0.2025	0.2011	
(g/100cc)	0.2000	0.1995	0.0005	0.1997		

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
0.201	0.190	0.212	0.011

	Reported Result 0.201	
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Calibration and control data are stored centrally.

Issued: 12/30/2016

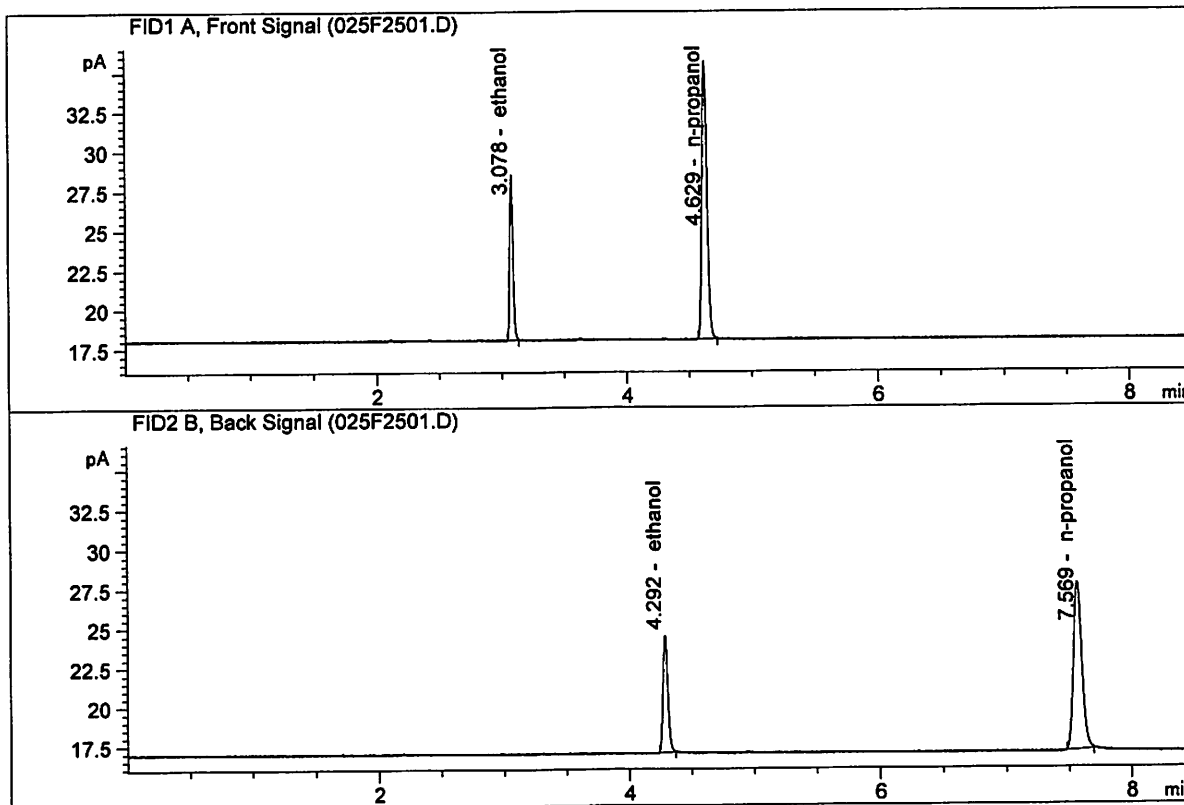
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
 Laboratory : Meridian
 Injection Date : Jul 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

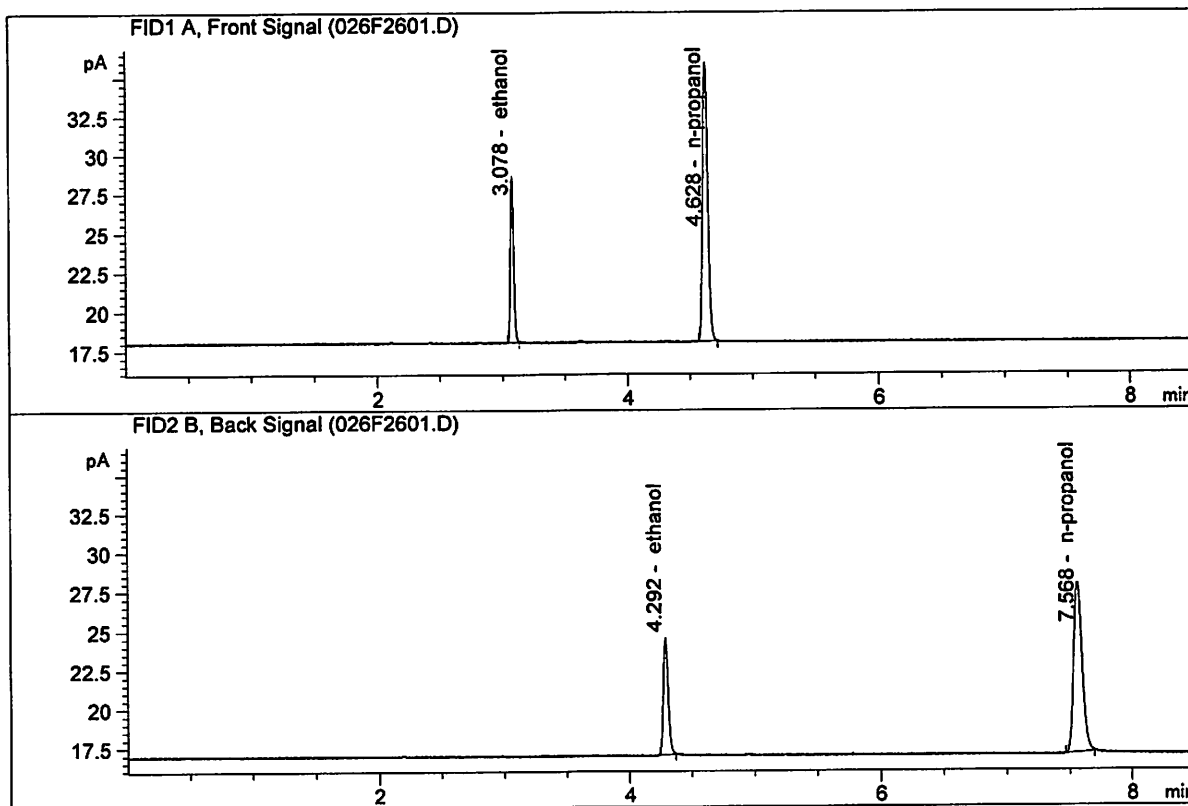


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.16229	0.2022	g/100cc
2.	Ethanol	Column 2:	20.02229	0.2028	g/100cc
3.	n-Propanol	Column 1:	50.12729	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.35899	1.0000	g/100cc

JK

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
 Laboratory : Meridian
 Injection Date : Jul 16, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.23823	0.2000	g/100cc
2.	Ethanol	Column 2:	20.10169	0.1995	g/100cc
3.	n-Propanol	Column 1:	50.88034	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.43666	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 17 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0796	0.0803	0.0007	0.0799	0.0804
(g/100cc)	0.0805	0.0814	0.0009	0.0809	

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
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Calibration and control data are stored centrally.

Issued: 12/30/2016

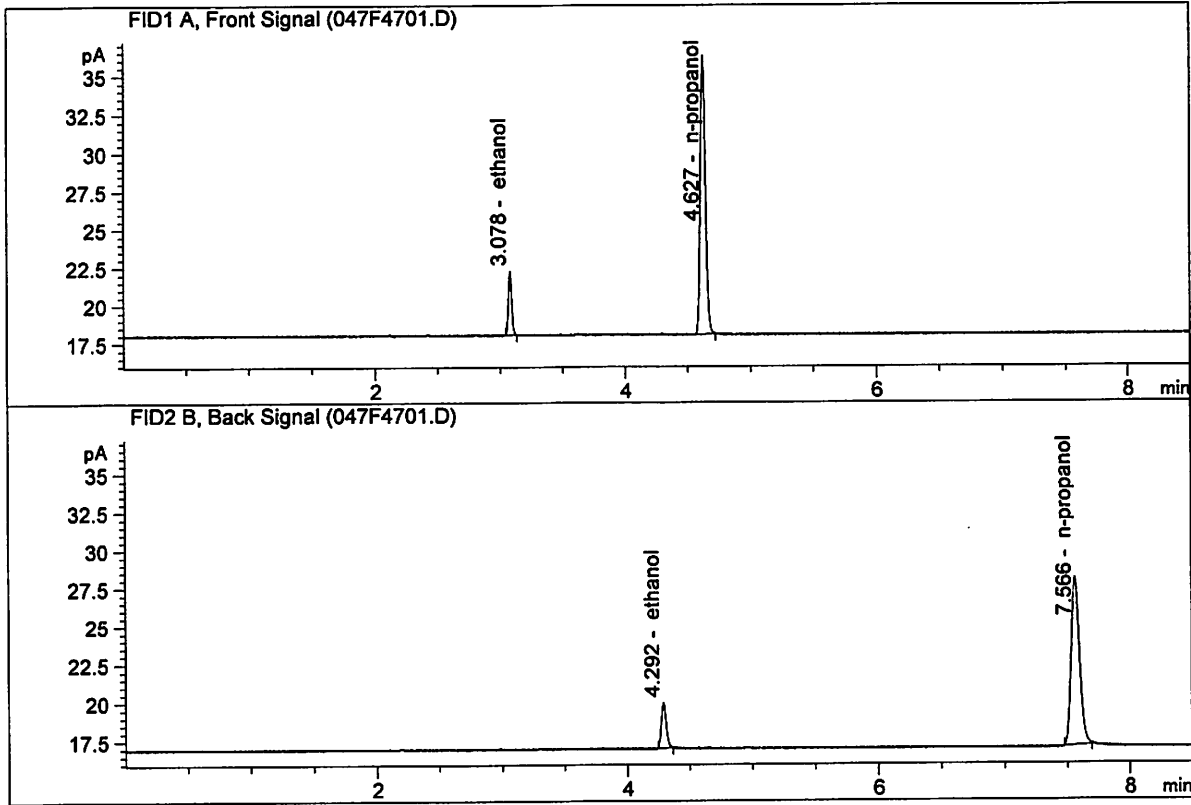
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

JC

ISP Forensic Services Blood Alcohol Report

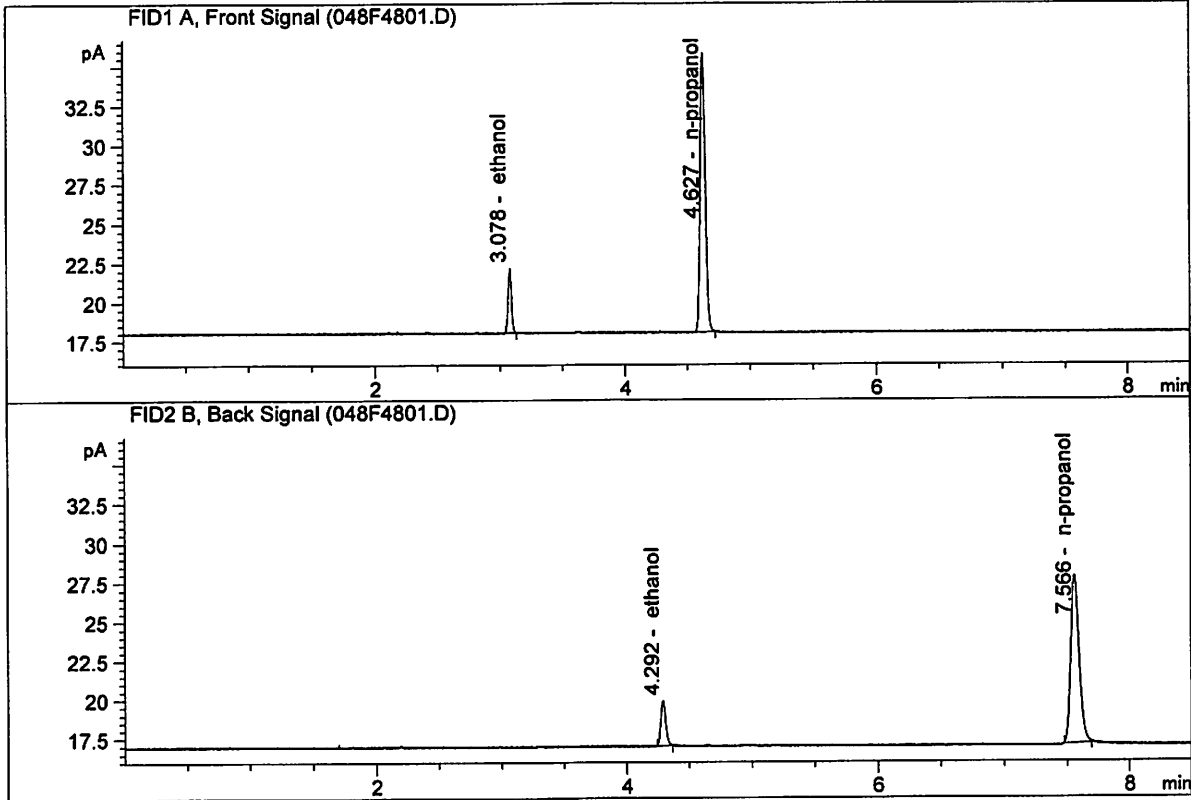
Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : Jul 17, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.72958	0.0796	g/100cc
2.	Ethanol	Column 2:	7.92395	0.0803	g/100cc
3.	n-Propanol	Column 1:	51.76788	1.0000	g/100cc
4.	n-Propanol	Column 2:	53.07148	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : Jul 17, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.62216	0.0805	g/100cc
2.	Ethanol	Column 2:	7.83251	0.0814	g/100cc
3.	n-Propanol	Column 1:	50.47154	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.72066	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2

Analysis Date(s): 17 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2062	0.2067	0.0005	0.2064	0.2077	
(g/100cc)	0.2089	0.2093	0.0004	0.2091		

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
0.207	0.196	0.218	0.011

	Reported Result	
	0.207	

Calibration and control data are stored centrally.

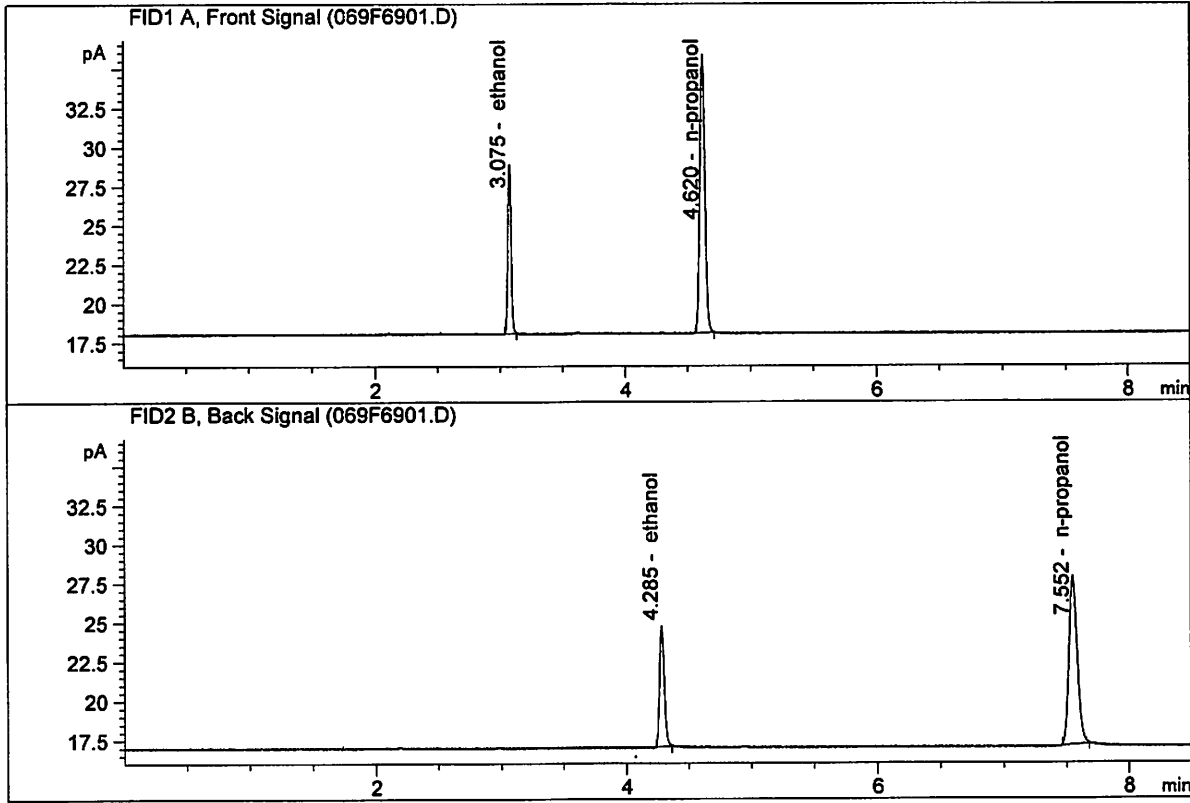
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

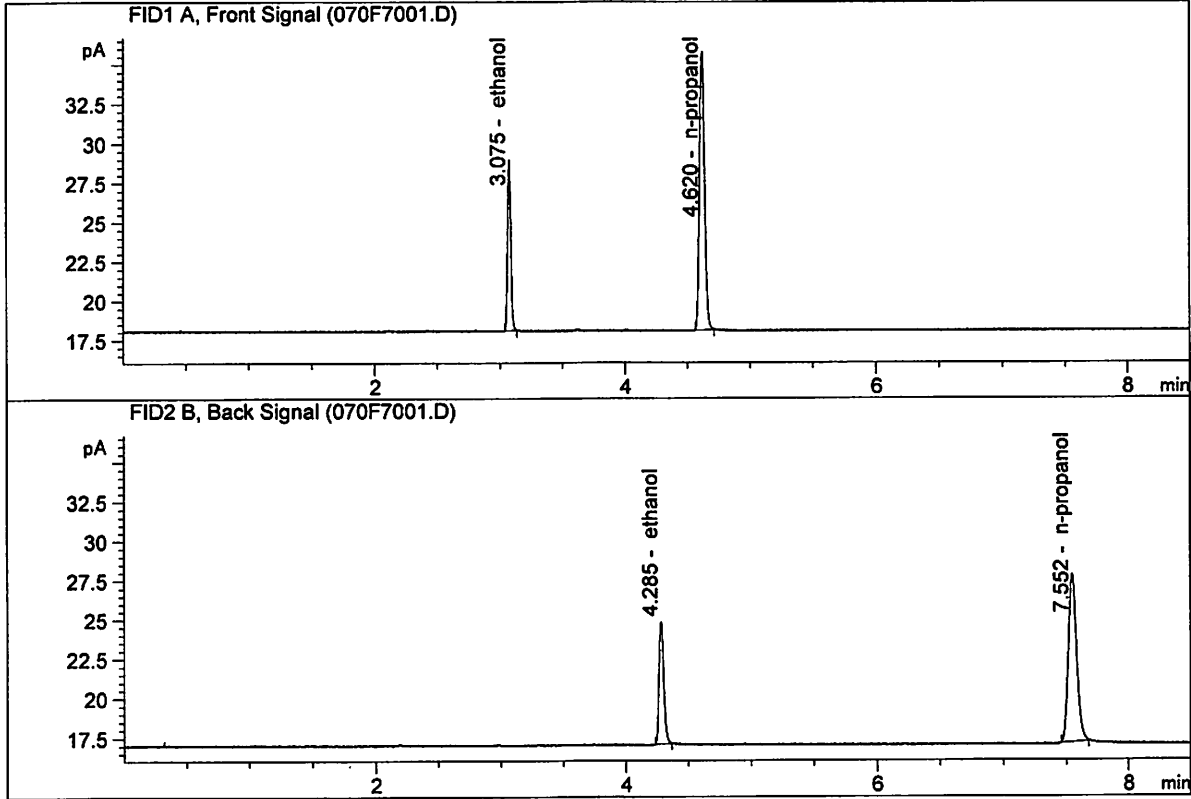
Sample Name : QC2-2-A
 Laboratory : Meridian
 Injection Date : Jul 17, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.64351	0.2062	g/100cc
2.	Ethanol	Column 2:	20.41394	0.2067	g/100cc
3.	n-Propanol	Column 1:	50.39074	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.36798	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

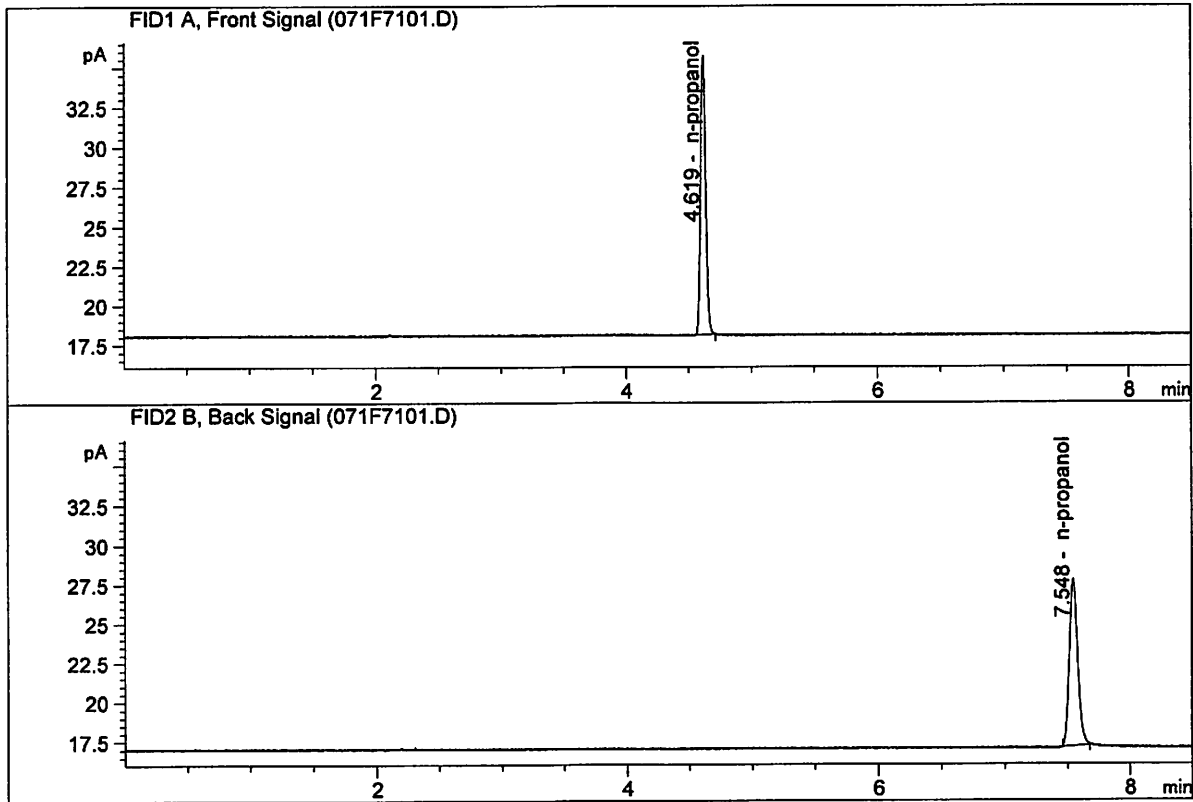
Sample Name : QC2-2-B
 Laboratory : Meridian
 Injection Date : Jul 17, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.76543	0.2089	g/100cc
2.	Ethanol	Column 2:	20.54774	0.2093	g/100cc
3.	n-Propanol	Column 1:	50.05072	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.02791	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Jul 17, 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:	49.87826	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.01899	1.0000	g/100cc

JG

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

Sequence table: C:\Chem32\1\Data\07-16-18_SAMPLES\07-16-18_SAMPLES 2018-07-16 16-16-25\07-16-18_SAMPLES.S
 Data directory path: C:\Chem32\1\Data\07-16-18_SAMPLES\07-16-18_SAMPLES 2018-07-16 16-16-25\
 Logbook: C:\Chem32\1\Data\07-16-18_SAMPLES\07-16-18_SAMPLES 2018-07-16 16-16-25\07-16-18_SAMPLES.LOG
 Sequence start: 7/16/2018 4:31:10 PM
 Sequence Operator: SYSTEM
 Operator: SYSTEM
 Method file name: C:\Chem32\1\Data\07-16-18_SAMPLES\07-16-18_SAMPLES 2018-07-16 16-16-25\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	M2018-3374-1-A	-	1.0000	007F0701.D		4
8	8	1	M2018-3374-1-B	-	1.0000	008F0801.D		4
9	9	1	M2018-3375-1-A	-	1.0000	009F0901.D		4
10	10	1	M2018-3375-1-B	-	1.0000	010F1001.D		4
11	11	1	M2018-3376-1-A	-	1.0000	011F1101.D		4
12	12	1	M2018-3376-1-B	-	1.0000	012F1201.D		4
13	13	1	M2018-3377-1-A	-	1.0000	013F1301.D		6
14	14	1	M2018-3377-1-B	-	1.0000	014F1401.D		6
15	15	1	M2018-3378-1-A	-	1.0000	015F1501.D		2
16	16	1	M2018-3378-1-B	-	1.0000	016F1601.D		2
17	17	1	M2018-3391-1-A	-	1.0000	017F1701.D		4
18	18	1	M2018-3391-1-B	-	1.0000	018F1801.D		4
19	19	1	M2018-3405-1-A	-	1.0000	019F1901.D		4
20	20	1	M2018-3405-1-B	-	1.0000	020F2001.D		4
21	21	1	M2018-3406-1-A	-	1.0000	021F2101.D		6
22	22	1	M2018-3406-1-B	-	1.0000	022F2201.D		6
23	23	1	M2018-3407-1-A	-	1.0000	023F2301.D		6
24	24	1	M2018-3407-1-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	M2018-3408-1-A	-	1.0000	027F2701.D		6
28	28	1	M2018-3408-1-B	-	1.0000	028F2801.D		6
29	29	1	M2018-3412-1-A	-	1.0000	029F2901.D		6
30	30	1	M2018-3412-1-B	-	1.0000	030F3001.D		6
31	31	1	M2018-3413-1-A	-	1.0000	031F3101.D		4
32	32	1	M2018-3413-1-B	-	1.0000	032F3201.D		4
33	33	1	M2018-3414-1-A	-	1.0000	033F3301.D		6
34	34	1	M2018-3414-1-B	-	1.0000	034F3401.D		6
35	35	1	M2018-3416-1-A	-	1.0000	035F3501.D		4
36	36	1	M2018-3416-1-B	-	1.0000	036F3601.D		4
37	37	1	M2018-3425-4-A	-	1.0000	037F3701.D		4
38	38	1	M2018-3425-4-B	-	1.0000	038F3801.D		4
39	39	1	M2018-3426-1-A	-	1.0000	039F3901.D		4
40	40	1	M2018-3426-1-B	-	1.0000	040F4001.D		4
41	41	1	M2018-3429-1-A	-	1.0000	041F4101.D		4
42	42	1	M2018-3429-1-B	-	1.0000	042F4201.D		4
43	43	1	M2018-3430-1-A	-	1.0000	043F4301.D		4

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
44	44	1	M2018-3430-1-B	-	1.0000	044F4401.D		4
45	45	1	M2018-3431-1-A	-	1.0000	045F4501.D		5
46	46	1	M2018-3431-1-B	-	1.0000	046F4601.D		5
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	M2018-3432-1-A	-	1.0000	049F4901.D		4
50	50	1	M2018-3432-1-B	-	1.0000	050F5001.D		5
51	51	1	M2018-3443-1-A	-	1.0000	051F5101.D		2
52	52	1	M2018-3443-1-B	-	1.0000	052F5201.D		2
53	53	1	M2018-3444-1-A	-	1.0000	053F5301.D		6
54	54	1	M2018-3444-1-B	-	1.0000	054F5401.D		6
55	55	1	M2018-3449-1-A	-	1.0000	055F5501.D		2
56	56	1	M2018-3449-1-B	-	1.0000	056F5601.D		2
57	57	1	M2018-3450-1-A	-	1.0000	057F5701.D		2
58	58	1	M2018-3450-1-B	-	1.0000	058F5801.D		2
59	59	1	M2018-3451-1-A	-	1.0000	059F5901.D		4
60	60	1	M2018-3451-1-B	-	1.0000	060F6001.D		4
61	61	1	M2018-3452-1-A	-	1.0000	061F6101.D		2
62	62	1	M2018-3452-1-B	-	1.0000	062F6201.D		2
63	63	1	M2018-3468-1-A	-	1.0000	063F6301.D		2
64	64	1	M2018-3468-1-B	-	1.0000	064F6401.D		2
65	65	1	M2018-3469-1-A	-	1.0000	065F6501.D		6
66	66	1	M2018-3469-1-B	-	1.0000	066F6601.D		6
67	67	1	M2018-3470-1-A	-	1.0000	067F6701.D		6
68	68	1	M2018-3470-1-B	-	1.0000	068F6801.D		6
69	69	1	QC2-2-A	-	1.0000	069F6901.D		4
70	70	1	QC2-2-B	-	1.0000	070F7001.D		4
71	71	1	INTERNAL STD BLK	-	1.0000	071F7101.D		2

Method file name: C:\Chem32\1\Data\07-16-18_SAMPLES\07-16-18_SAMPLES 2018-07-16 16-16-25 \SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
72	72	1	EMPTY	-	1.0000	072F7201.D		0

JG