

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: 10/31/18

Calibration Date: 10/31/18

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jan-22	1801036	0.0812	0.0731-0.0893	0.0775 g/100cc 0.0808 g/100cc g/100cc
Level 2	Mar-22	1803028	0.2035	0.1832-0.2238	0.1978 g/100cc g/100cc
Multi-Component mixture:		Exp date: May-2022 ^{Sept. 2022}	Lot #	FN04171701 JC	OK
Curve Fit:		Column 1	0.99997	Column 2	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	0.0499	0.0512	0.0013	0.0505
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Aug-21	FN08101601	0.100	0.090 - 0.110	0.0993	0.0994	0.0001	0.0993
0.200	Dec-19	FN12011401	0.200	0.180 - 0.220	0.1995	0.1986	0.0009	0.199
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3022	0.3007	0.0015	0.3014
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Sep-21	FN08031602	0.500	0.450 - 0.550	0.4990	0.5002	0.0012	0.4996

Aqueous Controls

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

REVIEWED

By Melissa (Nikka) Bradley at 11:17 am, Nov 05, 2018

JU

Worklist: 2767

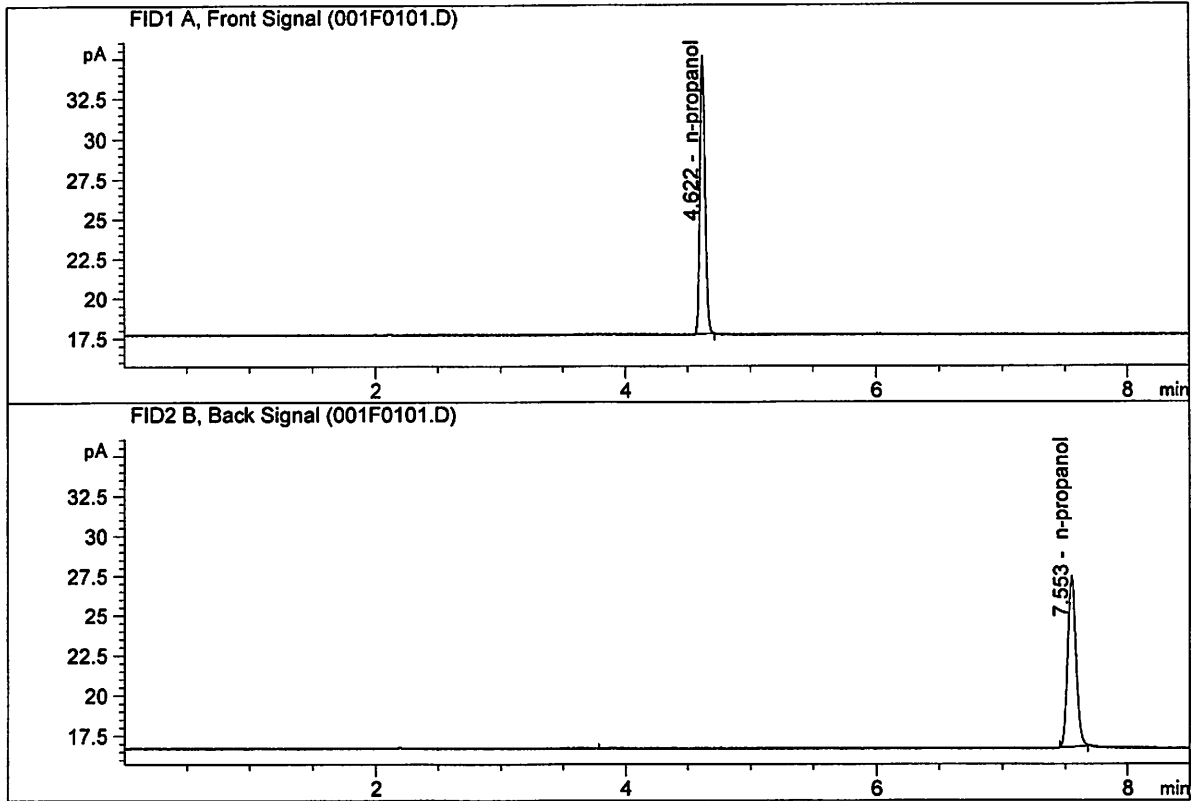
<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
M2018-3702	2	130736	Alcohol Analysis



JK

ISP Forensic Services Blood Alcohol Report

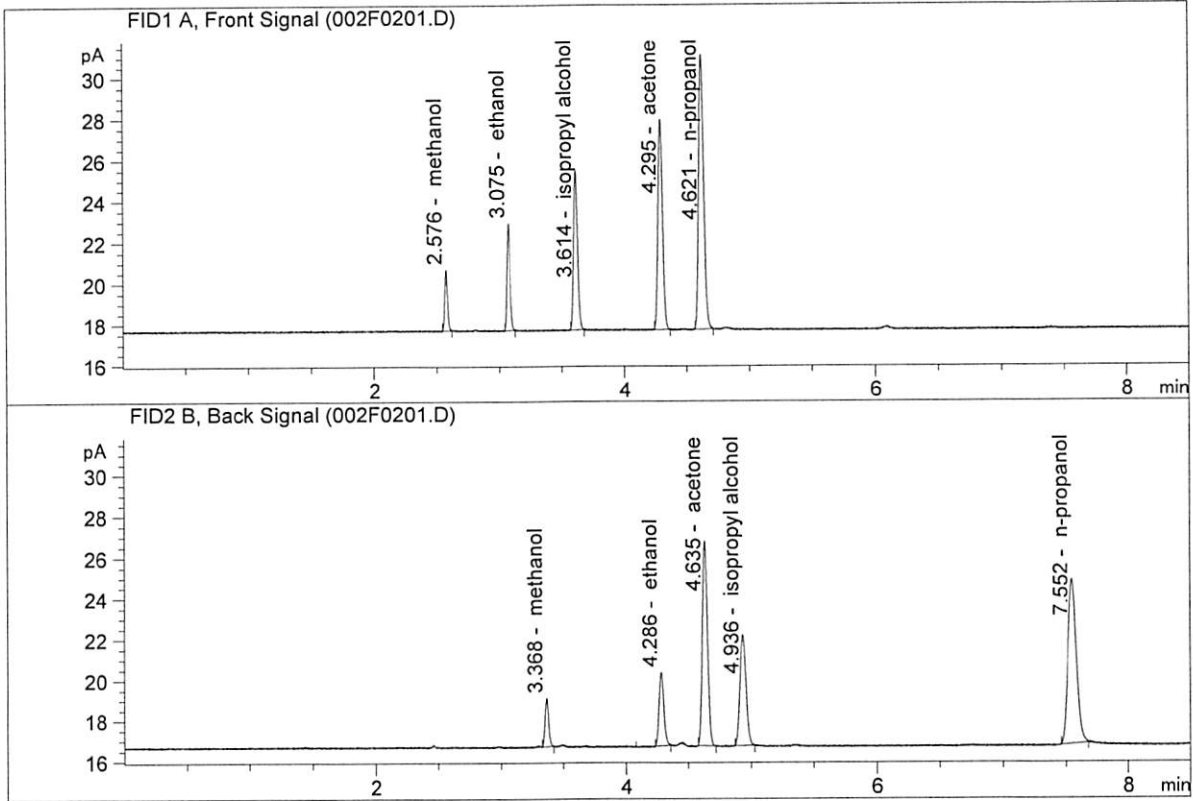
Sample Name : INTERNAL STD BLK 1
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	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:	49.40758	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.23080	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL ~~FN06041502~~ **FN09171701**
 Laboratory : Meridian **JG**
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.26188	0.1351	g/100cc
2.	Ethanol	Column 2:	9.57652	0.1366	g/100cc
3.	n-Propanol	Column 1:	37.64969	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.45804	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 31 Oct 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0772	0.0777	0.0005	0.0774	0.0775	
(g/100cc)	0.0773	0.0781	0.0008	0.0777		

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.

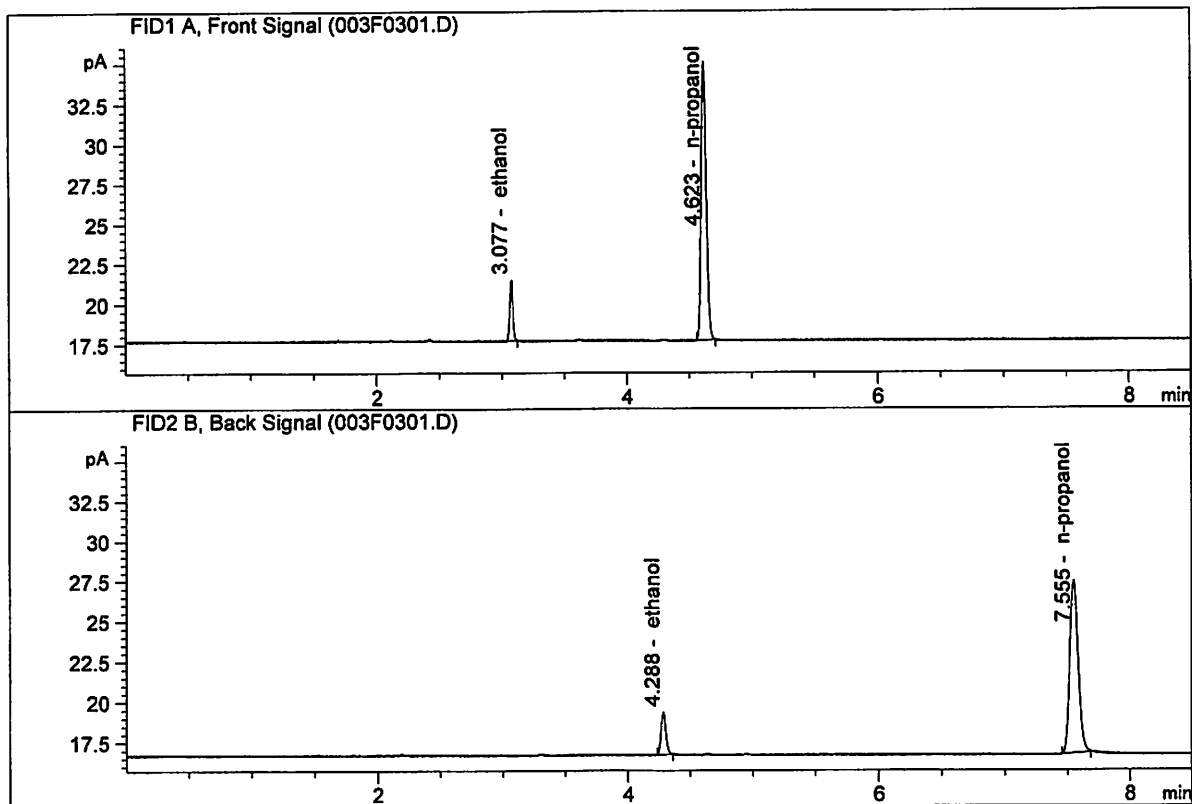
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

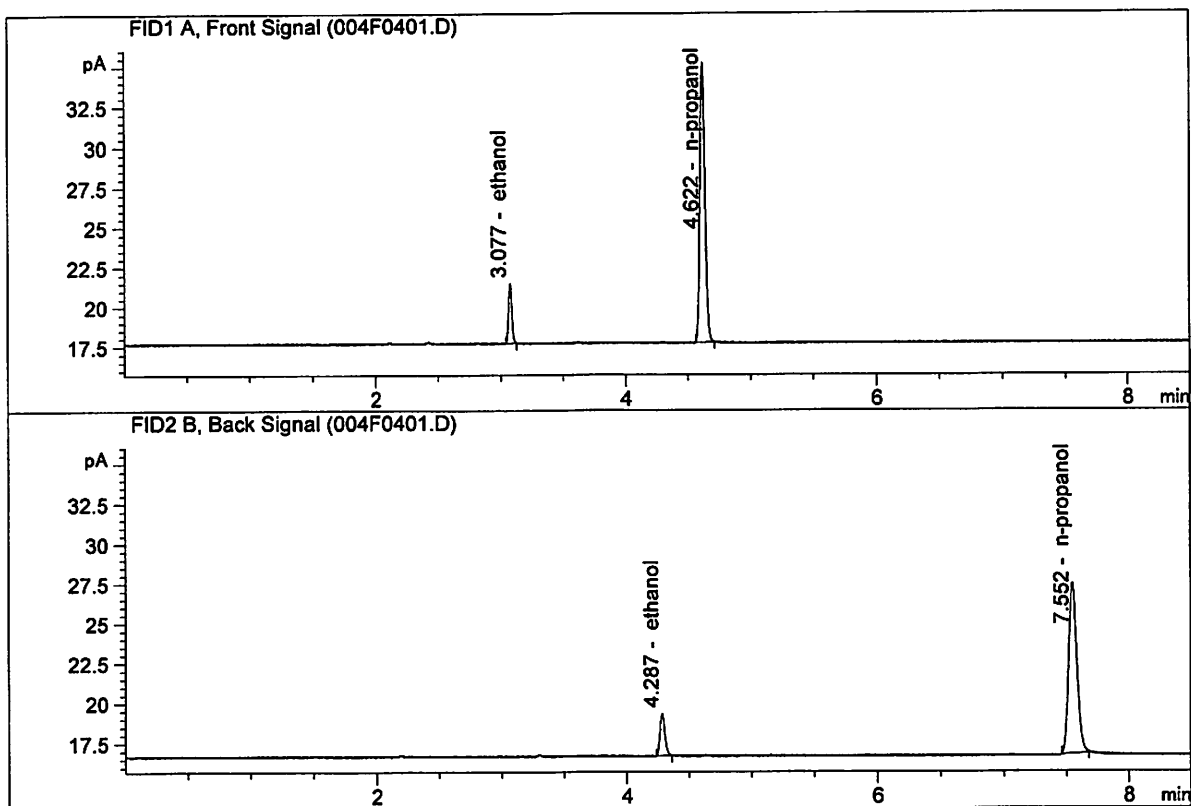
Sample Name : QC1-1-A
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.91356	0.0772	g/100cc
2.	Ethanol	Column 2:	7.02376	0.0777	g/100cc
3.	n-Propanol	Column 1:	49.28895	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.86791	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014 - CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.94683	0.0773	g/100cc
2.	Ethanol	Column 2:	7.06316	0.0781	g/100cc
3.	n-Propanol	Column 1:	49.47131	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.87889	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN04171701

Analysis Date(s): 31 Oct 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0799	0.0805	0.0006	0.0802	0.0803	
(g/100cc)	0.0800	0.0808	0.0008	0.0804		

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.

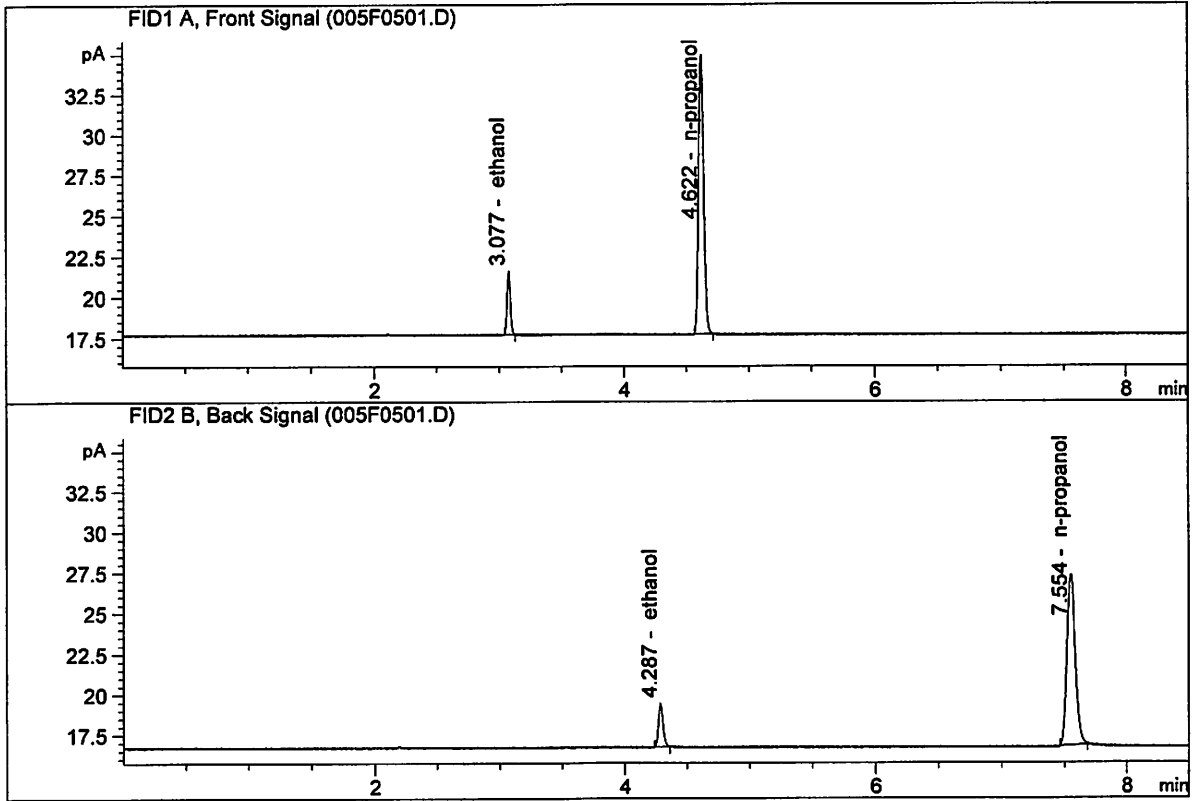
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

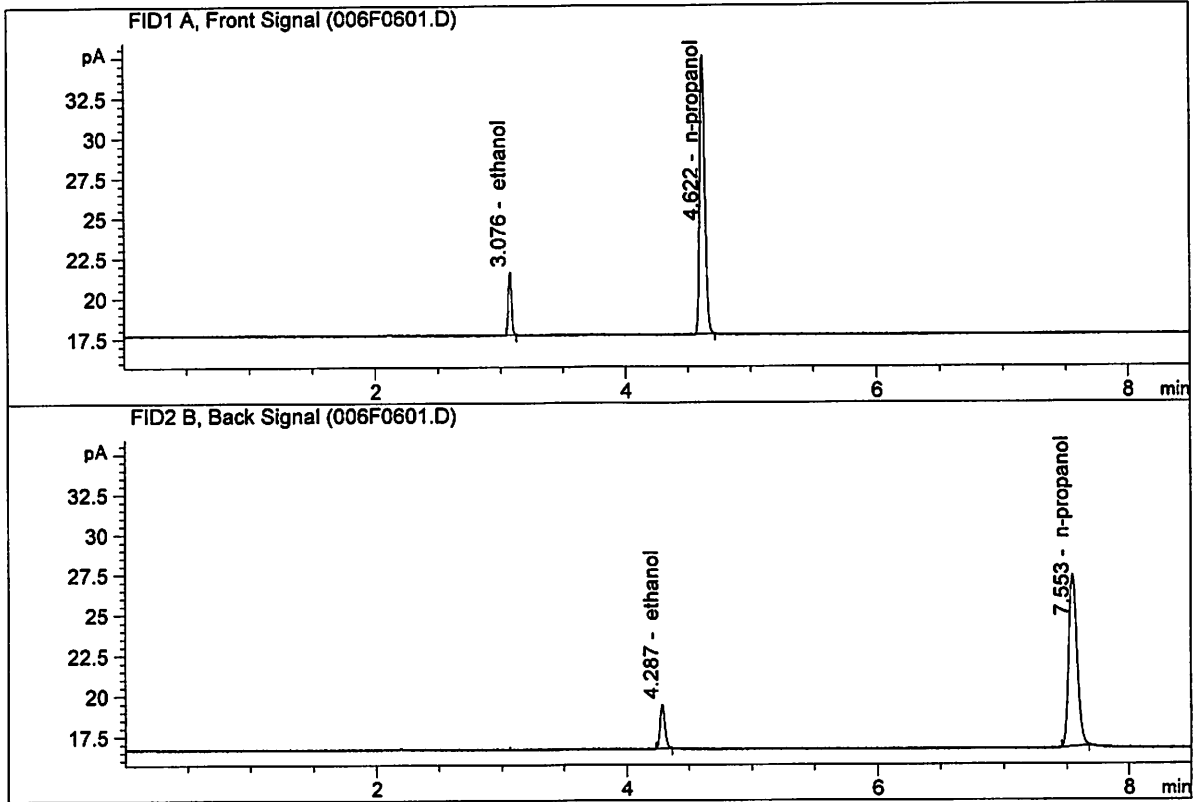
Sample Name : 0.08 FN04171701-A
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.12054	0.0799	g/100cc
2.	Ethanol	Column 2:	7.23088	0.0805	g/100cc
3.	n-Propanol	Column 1:	49.03587	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.43997	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN04171701-B
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.14542	0.0800	g/100cc
2.	Ethanol	Column 2:	7.26507	0.0808	g/100cc
3.	n-Propanol	Column 1:	49.18392	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.49620	1.0000	g/100cc

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

Sequence table: C:\Chem32\1\Data\10-31-18_SAMPLES\10-31-18_SAMPLES 2018-10-31 16-26-12\10-31-18_SAMPLES.S
 Data directory path: C:\Chem32\1\Data\10-31-18_SAMPLES\10-31-18_SAMPLES 2018-10-31 16-26-12\
 Logbook: C:\Chem32\1\Data\10-31-18_SAMPLES\10-31-18_SAMPLES 2018-10-31 16-26-12\10-31-18_SAMPLES.LOG
 Sequence start: 10/31/2018 4:40:54 PM
 Sequence Operator: SYSTEM
 Operator: SYSTEM
 Method file name: C:\Chem32\1\Data\10-31-18_SAMPLES\10-31-18_SAMPLES 2018-10-31 16-26-12\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	0.080 18803 #4-A	-	1.0000	007F0701.D		4
8	8	1	0.080 18803 #4-B	-	1.0000	008F0801.D		4
9	9	1	0.200 18110 #3-A	-	1.0000	009F0901.D		4
10	10	1	0.200 18110 #3-B	-	1.0000	010F1001.D		4
11	11	1	QC2-1-A	-	1.0000	011F1101.D		4
12	12	1	QC2-1-B	-	1.0000	012F1201.D		4
13	13	1	M2018-3702-2-A	-	1.0000	013F1301.D		4
14	14	1	M2018-3702-2-B	-	1.0000	014F1401.D		4
15	15	1	INTERNAL STD BLK	-	1.0000	015F1501.D		2
16	16	1	M2018-3702-2DIL9	-	1.0000	016F1601.D		4
17	17	1	M2018-3702-2DIL9	-	1.0000	017F1701.D		4
18	18	1	INTERNAL STD BLK	-	1.0000	018F1801.D		2
19	19	1	M2018-3702DIL81-	-	1.0000	019F1901.D		4
20	20	1	M2018-3702DIL81-	-	1.0000	020F2001.D		4
21	21	1	INTERNAL STD BLK	-	1.0000	021F2101.D		2
22	22	1	QC1-2-A	-	1.0000	022F2201.D		4
23	23	1	QC1-2-B	-	1.0000	023F2301.D		4
24	24	1	INTERNAL STD BLK	-	1.0000	024F2401.D		2

Method file name: C:\Chem32\1\Data\10-31-18_SAMPLES\10-31-18_SAMPLES 2018-10-31 16-26-12\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
25	25	1	EMPTY	-	1.0000	025F2501.D		0

26

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Calibration Table
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General Calibration Setting

Calib. Data Modified : Wednesday, October 31, 2018 4:06:51 PM
Signals calculated separately : No

Rel. Reference Window : 0.000 %
Abs. Reference Window : 0.100 min
Rel. Non-ref. Window : 0.000 %
Abs. Non-ref. Window : 0.100 min
Uncalibrated Peaks : not reported
Partial Calibration : Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear
Origin : Ignored
Weight : Equal

Recalibration Settings:
Average Response : Average all calibrations
Average Retention Time: Floating Average New 75%

Calibration Report Options :
Printout of recalibrations within a sequence:
Calibration Table after Recalibration
Normal Report after Recalibration
If the sequence is done with bracketing:
Results of first cycle (ending previous bracket)

Default Sample ISTD Information (if not set in sample table):

ISTD #	ISTD Amount [g/100cc]	Name
1	1.00000	n-propanol
2	1.00000	n-propanol

Signal Details

Signal 1: FID1 A, Front Signal
Signal 2: FID2 B, Back Signal

Overview Table

26

RT	Sig	Lvl	Amount [g/100cc]	Area	Rsp.Factor	Ref	ISTD #	Compound
2.586	1	1	1.00000	3.69669	2.70512e-1	No	No 1	methanol
2.809	1	1	1.00000	4.26100	2.34687e-1	No	No 2	Acetaldehyde
2.977	2	1	1.00000	4.26100	2.34687e-1	No	No 2	Acetaldehyde
3.075	1	1	5.00000e-2	4.53615	1.10226e-2	No	No 1	ethanol
		2	1.00000e-1	9.03009	1.10741e-2			
		3	2.00000e-1	18.12409	1.10350e-2			
		4	3.00000e-1	27.03236	1.10978e-2			
		5	5.00000e-1	46.02385	1.08639e-2			
3.388	2	1	1.00000	4.26062	2.34707e-1	No	No 2	methanol
3.628	1	1	1.00000	9.73055	1.02769e-1	No	No 1	isopropyl alcohol
4.285	2	1	5.00000e-2	4.63880	1.07786e-2	No	No 2	ethanol
		2	1.00000e-1	9.31339	1.07372e-2			
		3	2.00000e-1	18.90689	1.05782e-2			
		4	3.00000e-1	28.24488	1.06214e-2			
		5	5.00000e-1	48.71275	1.02643e-2			
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No 1	acetone
4.620	1	1	1.00000	50.16470	1.99343e-2	No	Yes 1	n-propanol
		2	1.00000	49.98732	2.00051e-2			
		3	1.00000	49.82826	2.00689e-2			
		4	1.00000	49.02808	2.03965e-2			
		5	1.00000	50.52134	1.97936e-2			
4.661	2	1	1.00000	6.89301	1.45075e-1	No	No 2	acetone
4.969	2	1	1.00000	10.70642	9.34019e-2	No	No 2	isopropyl alcohol
7.550	2	1	1.00000	52.58041	1.90185e-2	No	Yes 2	n-propanol
		2	1.00000	52.08379	1.91998e-2			
		3	1.00000	51.71439	1.93370e-2			
		4	1.00000	50.62835	1.97518e-2			
		5	1.00000	52.18080	1.91641e-2			

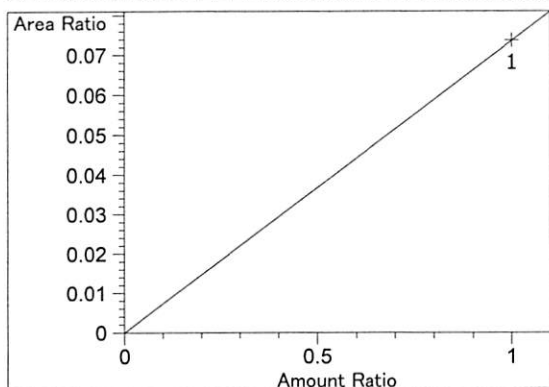
Peak Sum Table

No Entries in table

1 Warnings or Errors :

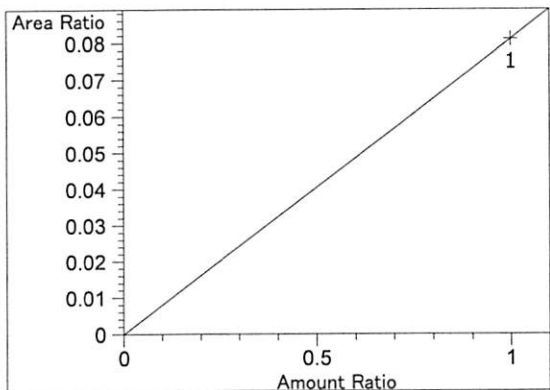
Warning : Curve requires more calibration points., (methanol)

Calibration Curves

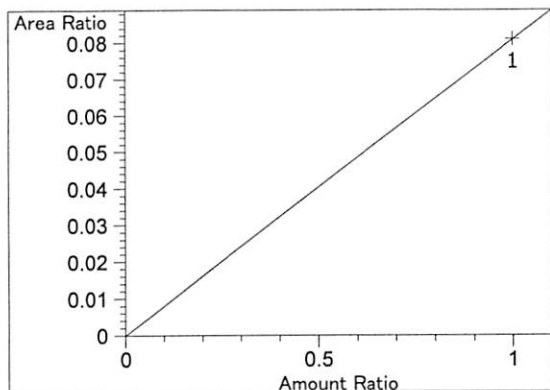


methanol at exp. RT: 2.586
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 7.36912e-2
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

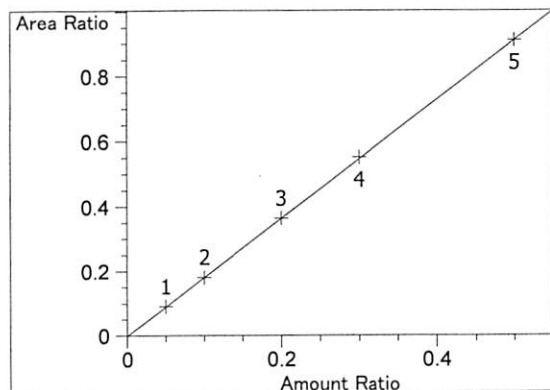
JG



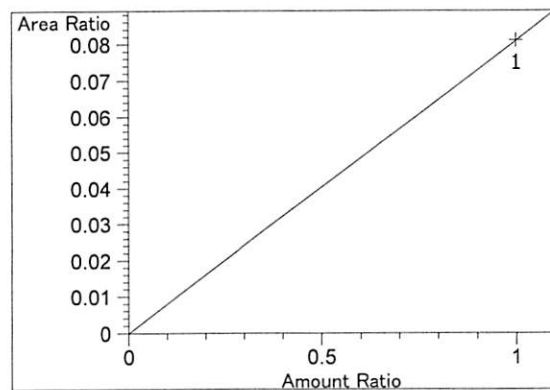
Acetaldehyde at exp. RT: 2.809
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: $8.10378e-2$
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



Acetaldehyde at exp. RT: 2.977
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: $8.10378e-2$
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

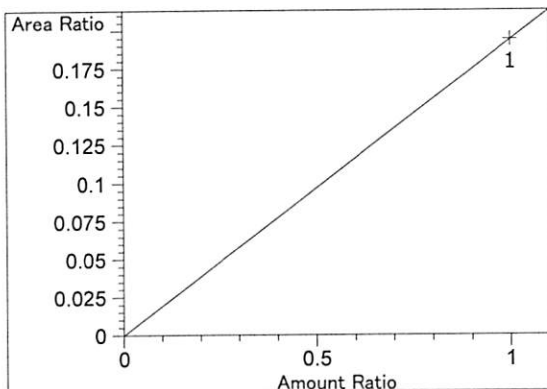


ethanol at exp. RT: 3.075
 FID1 A, Front Signal
 Correlation: 0.99997
 Residual Std. Dev.: 0.00270
 Formula: $y = mx + b$
 m: 1.82724
 b: $-8.36339e-4$
 x: Amount Ratio
 y: Area Ratio

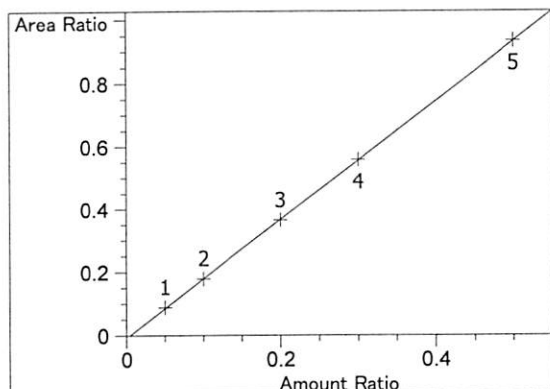


methanol at exp. RT: 3.388
 FID2 B, Back Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: $8.10306e-2$
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio

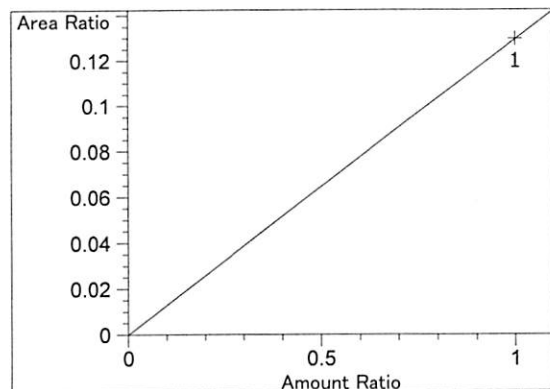
36



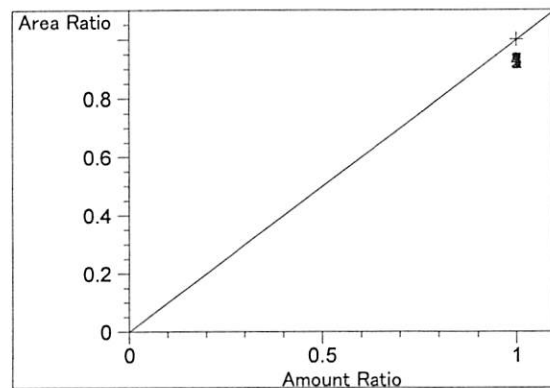
isopropyl alcohol at exp. RT: 3.628
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.93972e-1
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



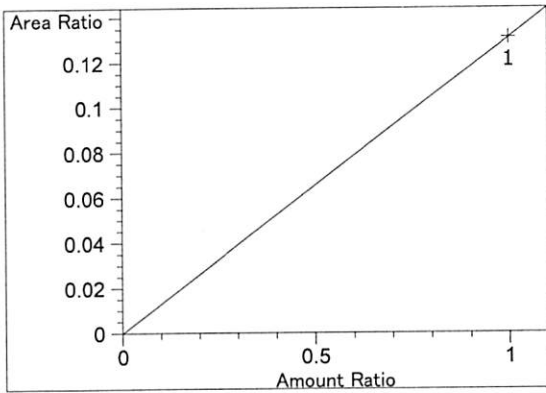
ethanol at exp. RT: 4.285
 FID2 B, Back Signal
 Correlation: 0.99998
 Residual Std. Dev.: 0.00232
 Formula: $y = mx + b$
 m: 1.88291
 b: -8.25733e-3
 x: Amount Ratio
 y: Area Ratio



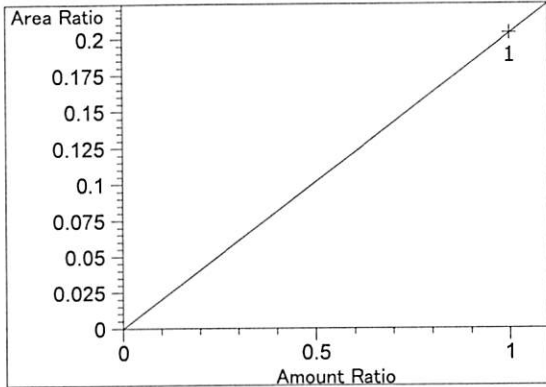
acetone at exp. RT: 4.308
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.29561e-1
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



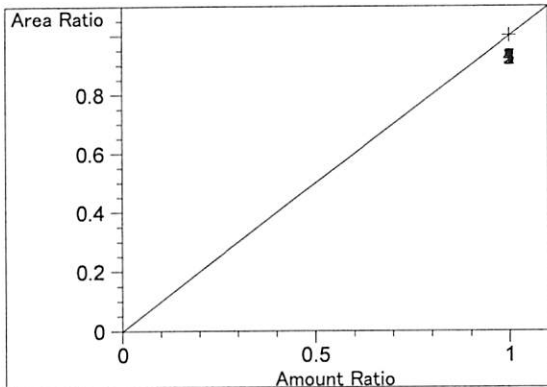
n-propanol at exp. RT: 4.620
 FID1 A, Front Signal
 Correlation: 1.00000
 Residual Std. Dev.: 0.00000
 Formula: $y = mx + b$
 m: 1.00000
 b: 0.00000
 x: Amount Ratio
 y: Area Ratio



acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.31095e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



isopropyl alcohol at exp. RT: 4.969
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 2.03620e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



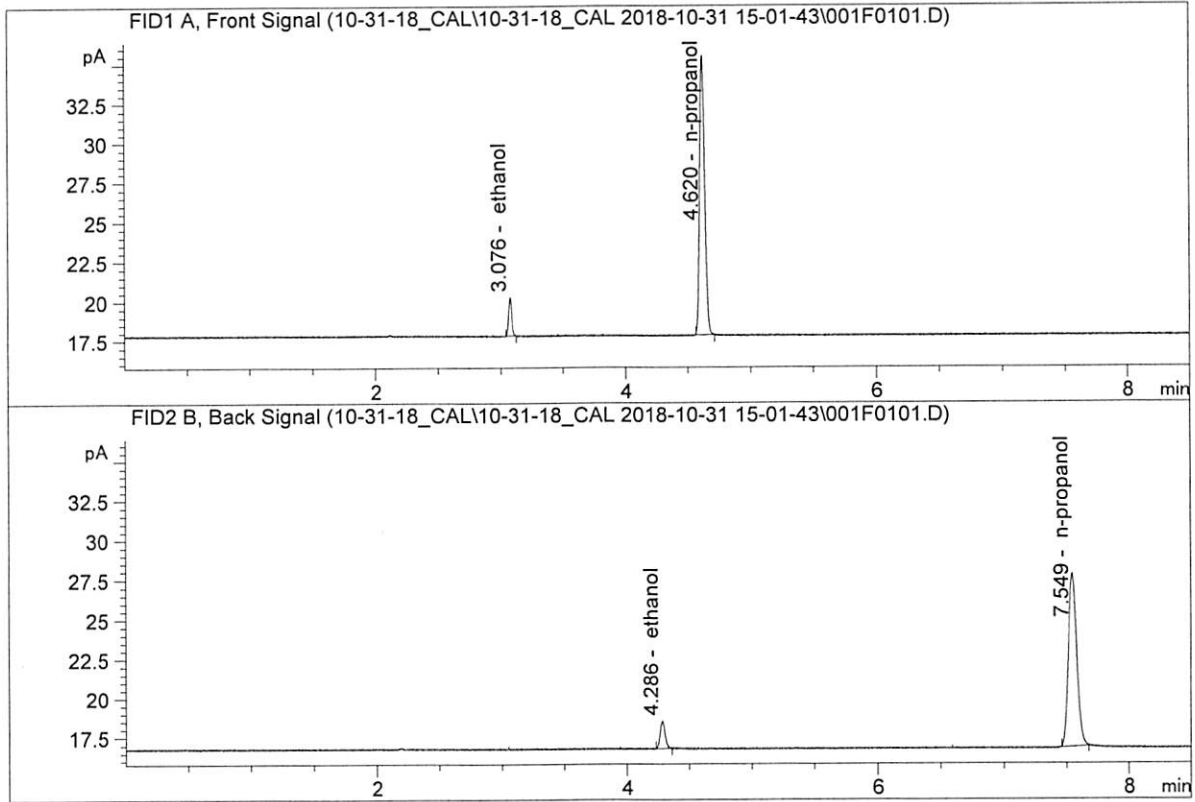
n-propanol at exp. RT: 7.550
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: $y = mx + b$
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

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26

ISP Forensic Services Blood Alcohol Report

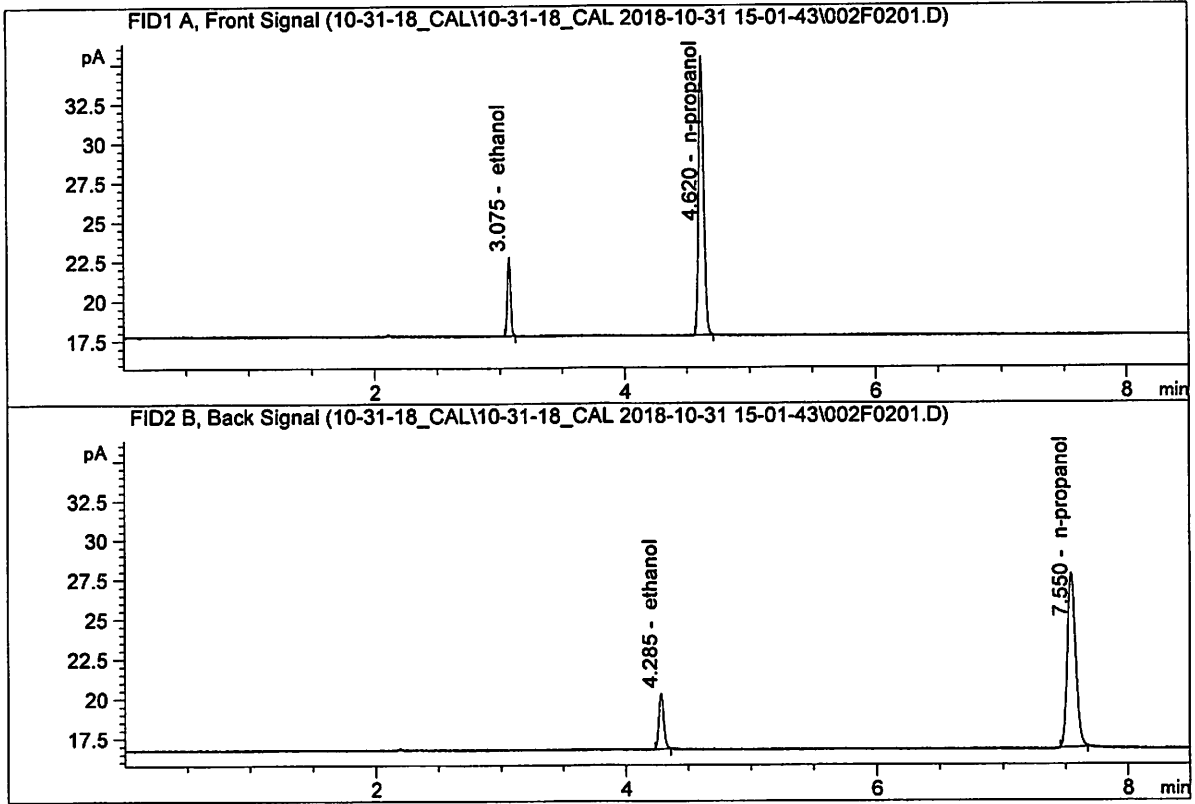
Sample Name : 0.050 FN06231406
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.53615	0.0499	g/100cc
2.	Ethanol	Column 2:	4.63880	0.0512	g/100cc
3.	n-Propanol	Column 1:	50.16470	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.58041	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

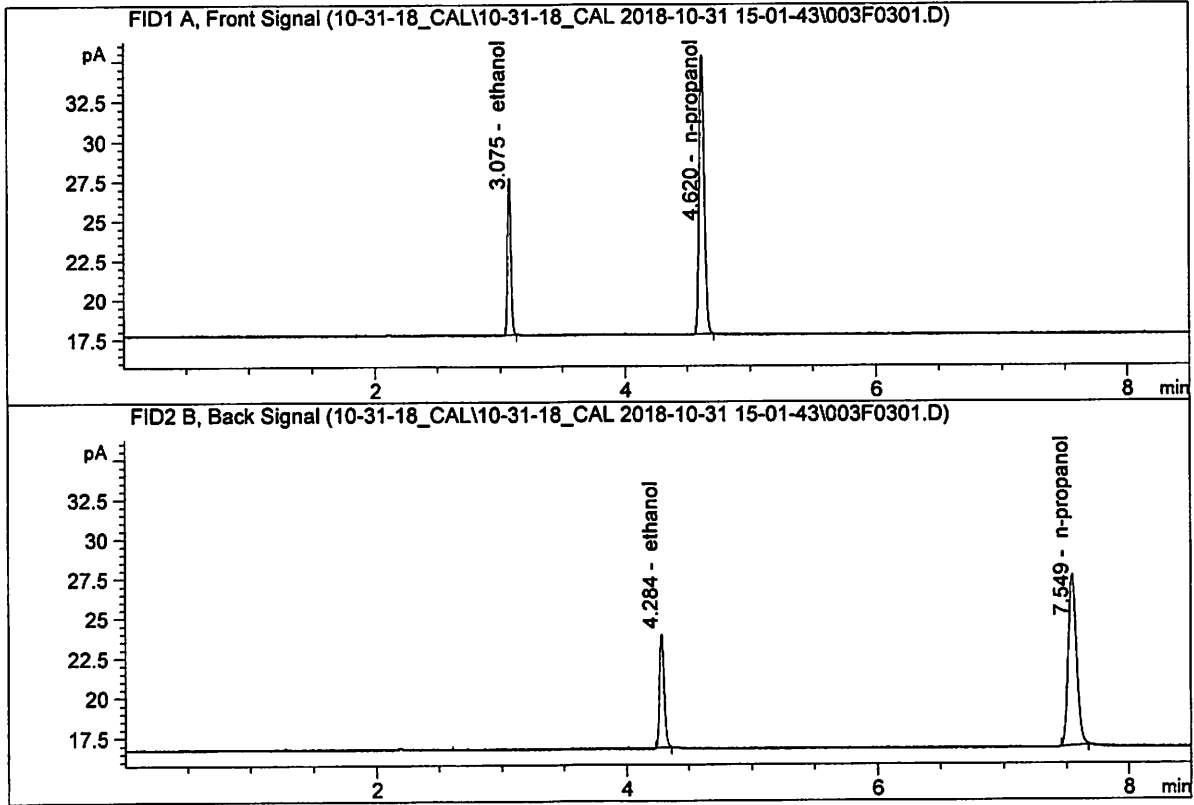
Sample Name : 0.100 FN08101601
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.03009	0.0993	g/100cc
2.	Ethanol	Column 2:	9.31339	0.0994	g/100cc
3.	n-Propanol	Column 1:	49.98732	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.08379	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

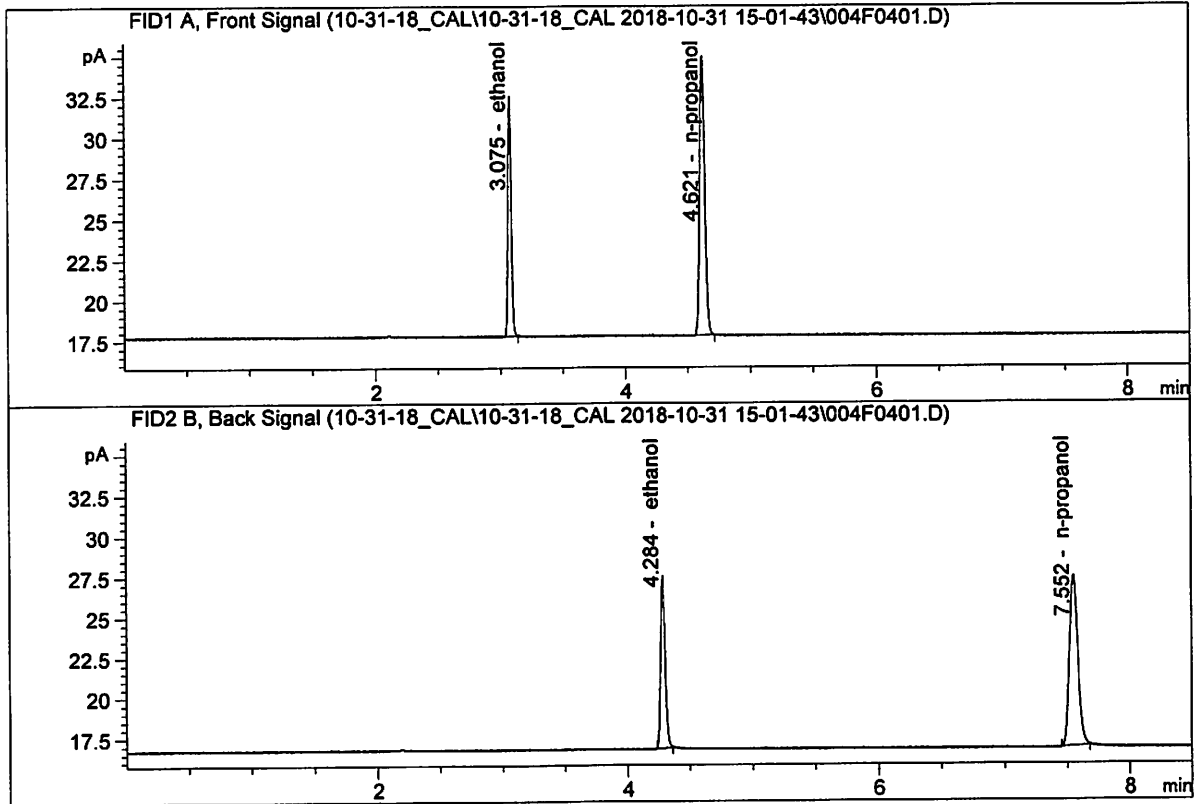
Sample Name : 0.200 FN12011401
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.12409	0.1995	g/100cc
2.	Ethanol	Column 2:	18.90689	0.1986	g/100cc
3.	n-Propanol	Column 1:	49.82826	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.71439	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN02121601
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167

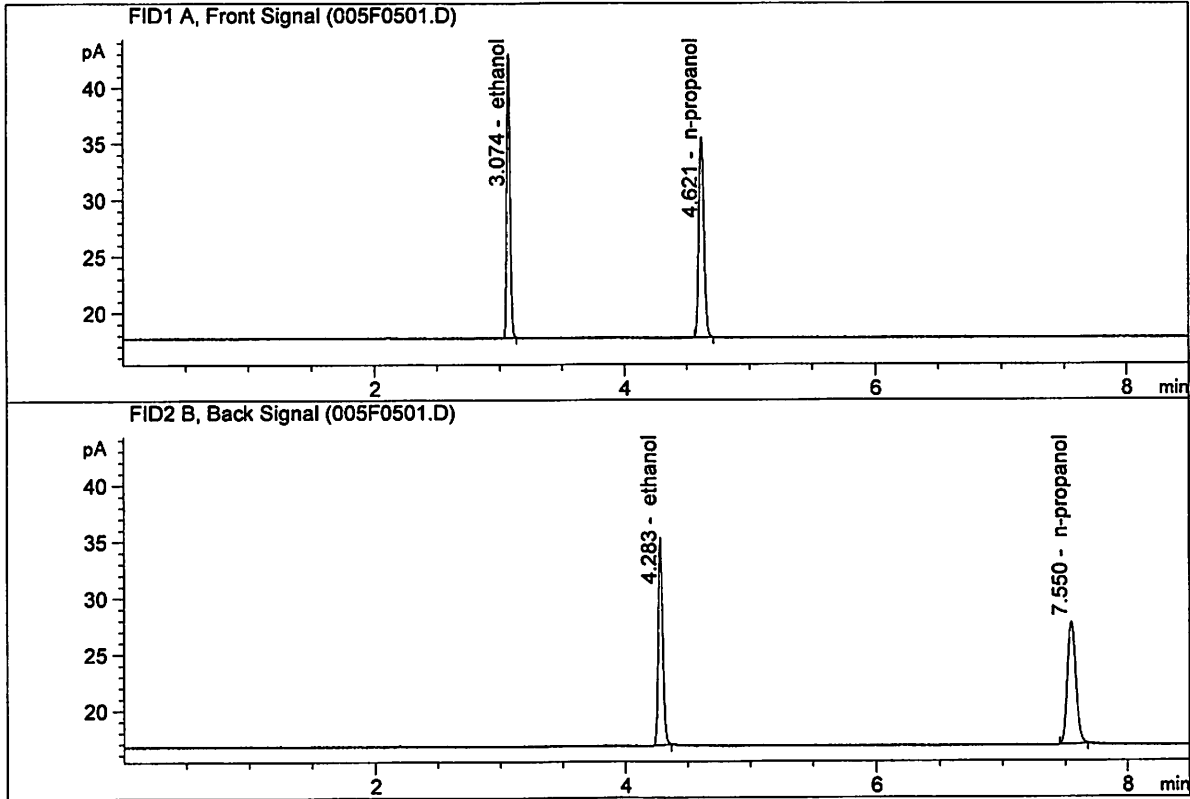


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.03236	0.3022	g/100cc
2.	Ethanol	Column 2:	28.24488	0.3007	g/100cc
3.	n-Propanol	Column 1:	49.02808	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.62835	1.0000	g/100cc

JK

ISP Forensic Services Blood Alcohol Report

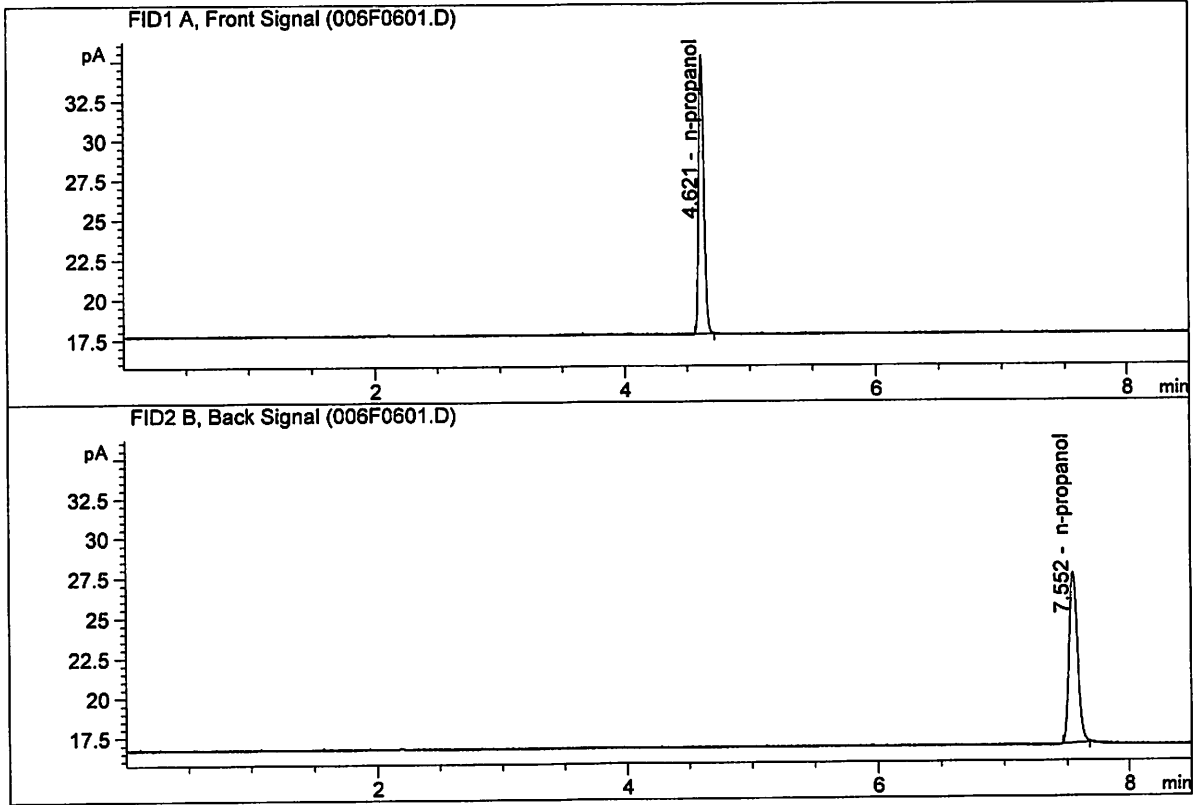
Sample Name : 0.500 FN08031602
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	46.02385	0.4990	g/100cc
2.	Ethanol	Column 2:	48.71275	0.5002	g/100cc
3.	n-Propanol	Column 1:	50.52134	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.18080	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
 Laboratory : Meridian
 Injection Date : Oct 31, 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:	49.82584	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.29085	1.0000	g/100cc

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

Sequence table: C:\Chem32\1\Data\10-31-18_CAL\10-31-18_CAL 2018-10-31 15-01-43\10-31-18_CAL.S
 Data directory path: C:\Chem32\1\Data\10-31-18_CAL\10-31-18_CAL 2018-10-31 15-01-43\
 Logbook: C:\Chem32\1\Data\10-31-18_CAL\10-31-18_CAL 2018-10-31 15-01-43\10-31-18_CAL.LOG
 Sequence start: 10/31/2018 3:16:19 PM
 Sequence Operator: SYSTEM
 Operator: SYSTEM

Method file name: C:\Chem32\1\Data\10-31-18_CAL\10-31-18_CAL 2018-10-31 15-01-43\ALCOHOL.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
1	1	1	0.050 FN06231406	-	1.0000	001F0101.D	*	4
2	2	1	0.100 FN08101601	-	1.0000	002F0201.D	*	4
3	3	1	0.200 FN12011401	-	1.0000	003F0301.D	*	4
4	4	1	0.300 FN02121601	-	1.0000	004F0401.D	*	4
5	5	1	0.500 FN08031602	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 31 Oct 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1987	0.1987	0.0000	0.1987	0.1978	
(g/100cc)	0.1973	0.1965	0.0008	0.1969		

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
0.197	0.187	0.207	0.010

	Reported Result 0.197	
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Calibration and control data are stored centrally.

Issued: 12/30/2016

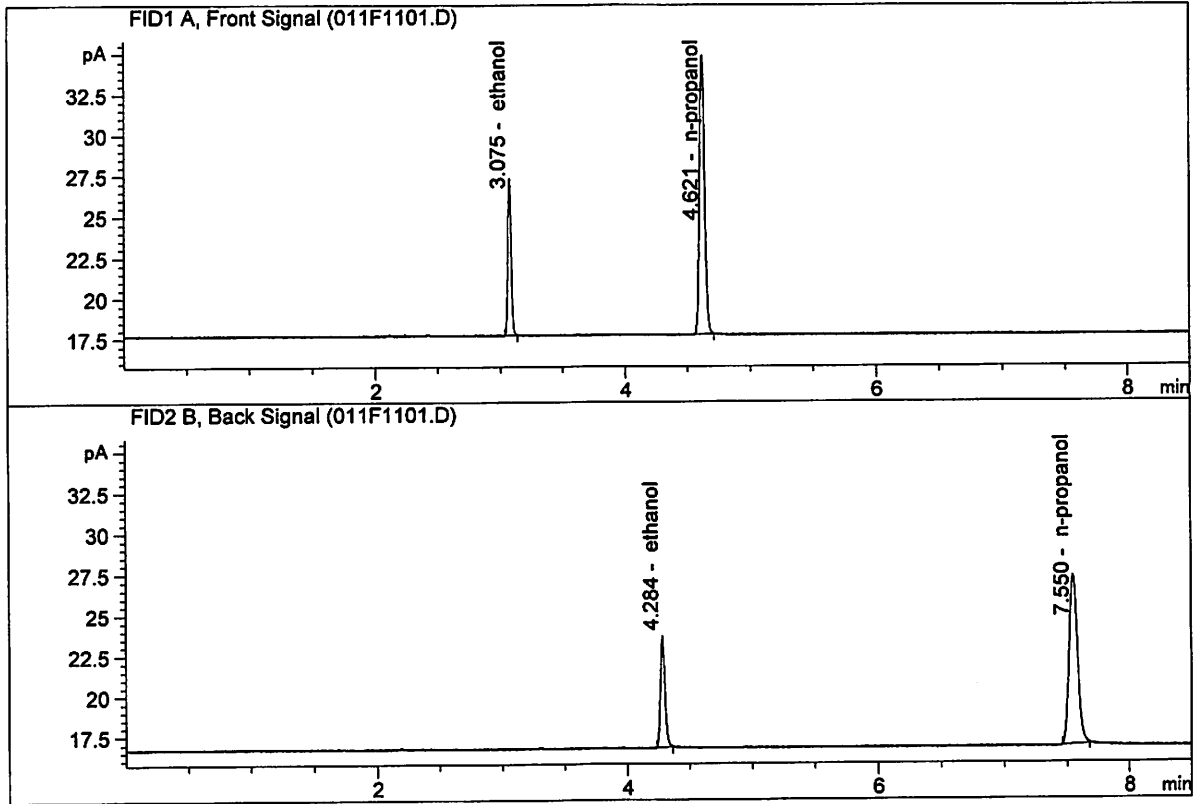
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

JG

ISP Forensic Services Blood Alcohol Report

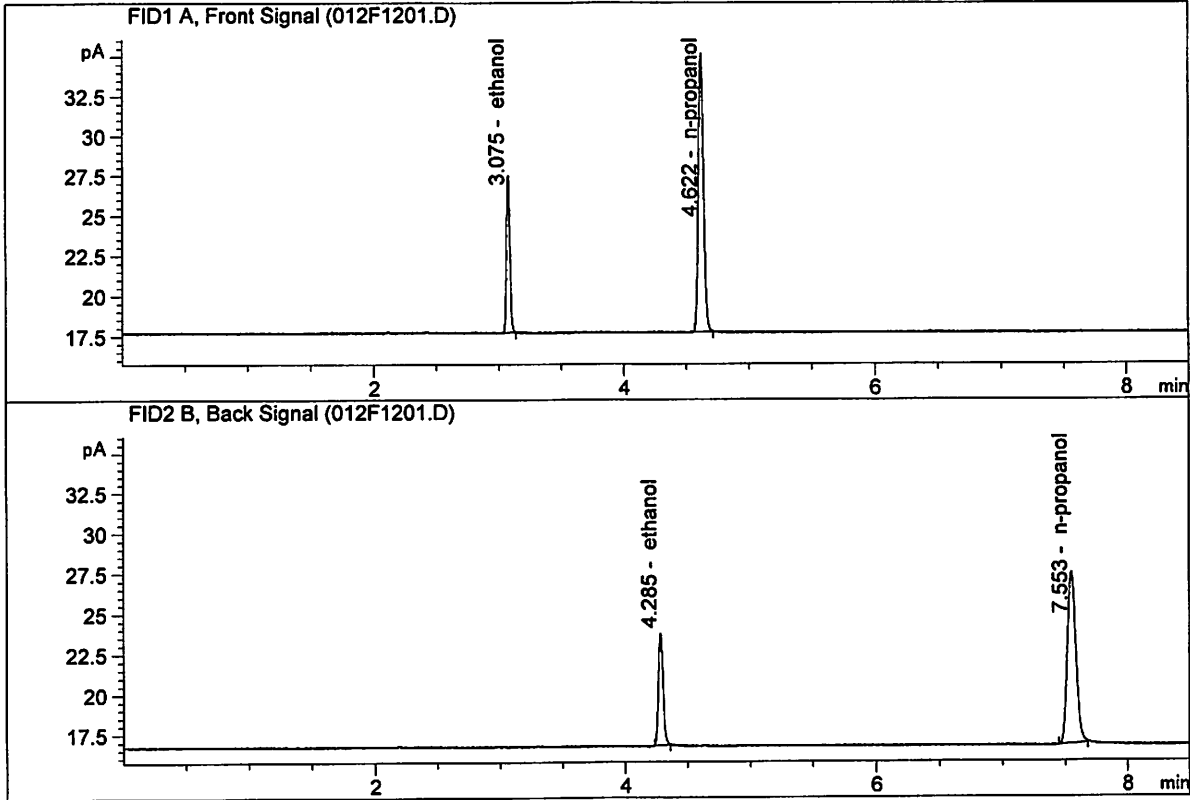
Sample Name : QC2-1-A
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.67059	0.1987	g/100cc
2.	Ethanol	Column 2:	18.33540	0.1987	g/100cc
3.	n-Propanol	Column 1:	48.77832	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.11301	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

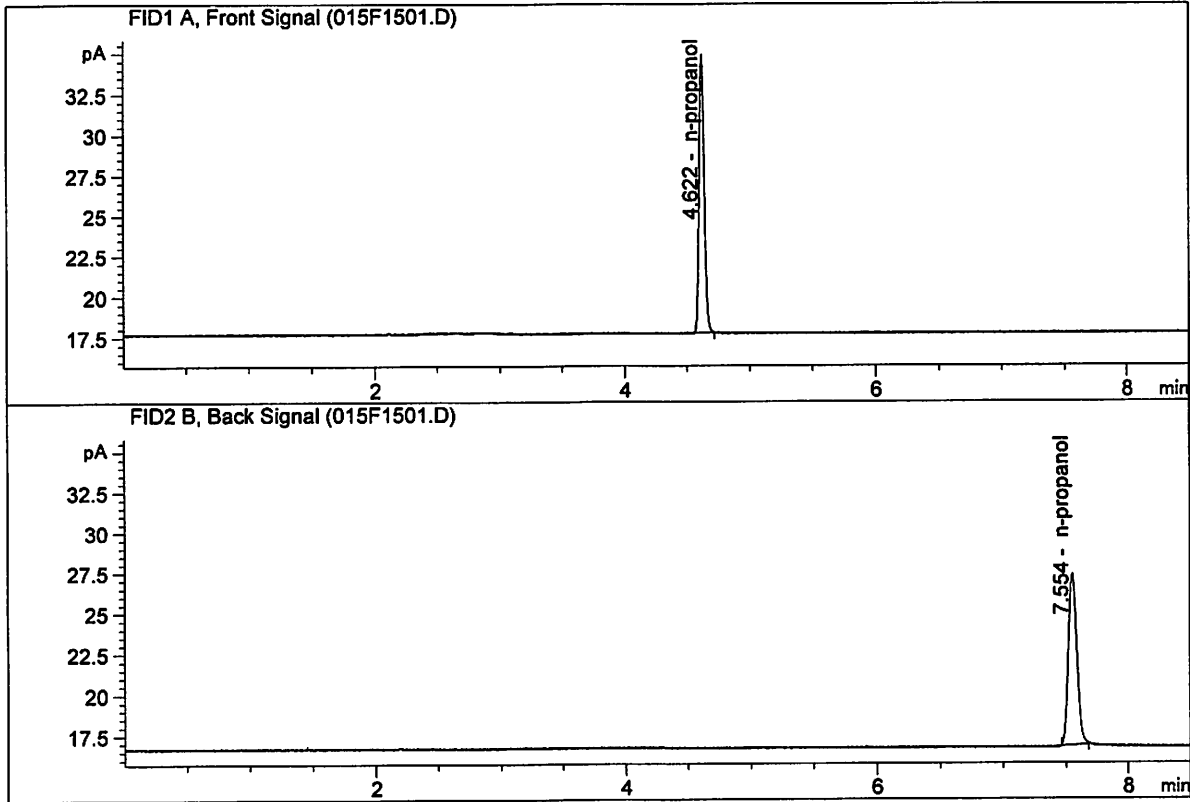
Sample Name : QC2-1-B
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.84373	0.1973	g/100cc
2.	Ethanol	Column 2:	18.48874	0.1965	g/100cc
3.	n-Propanol	Column 1:	49.61602	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.10719	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

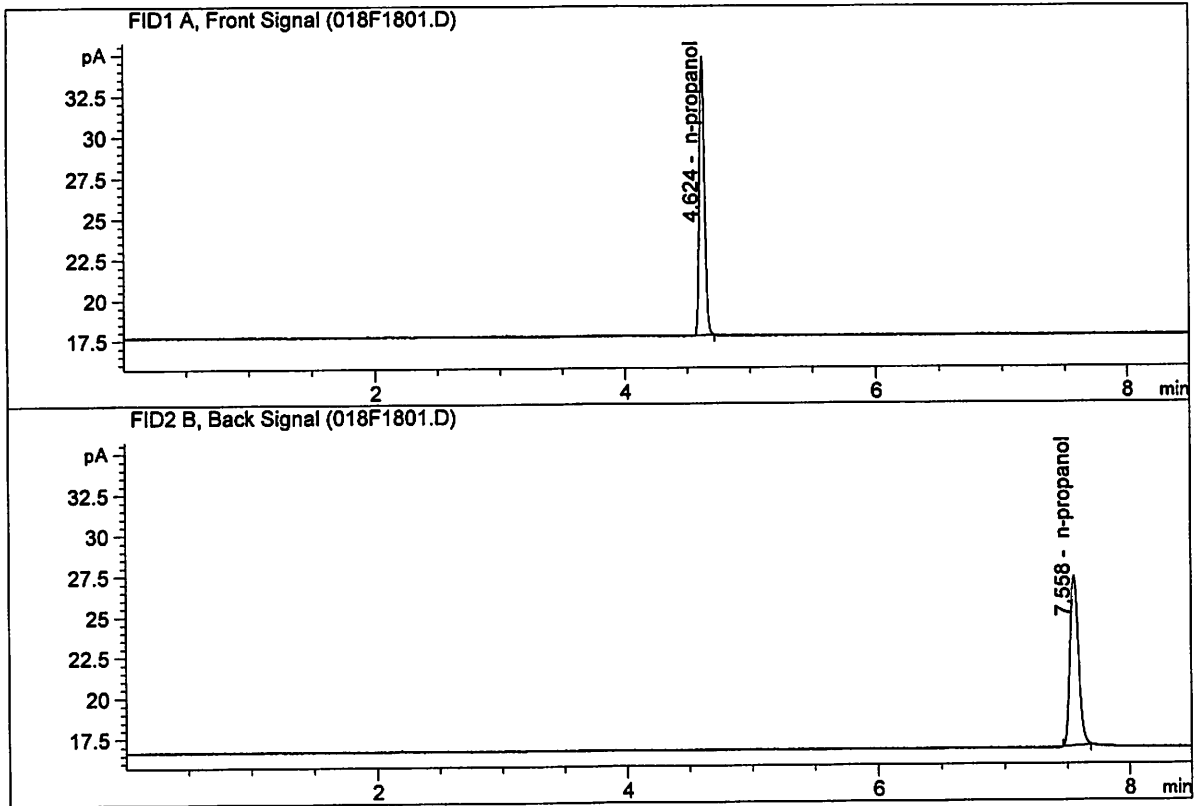
Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	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:	48.74186	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.07950	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

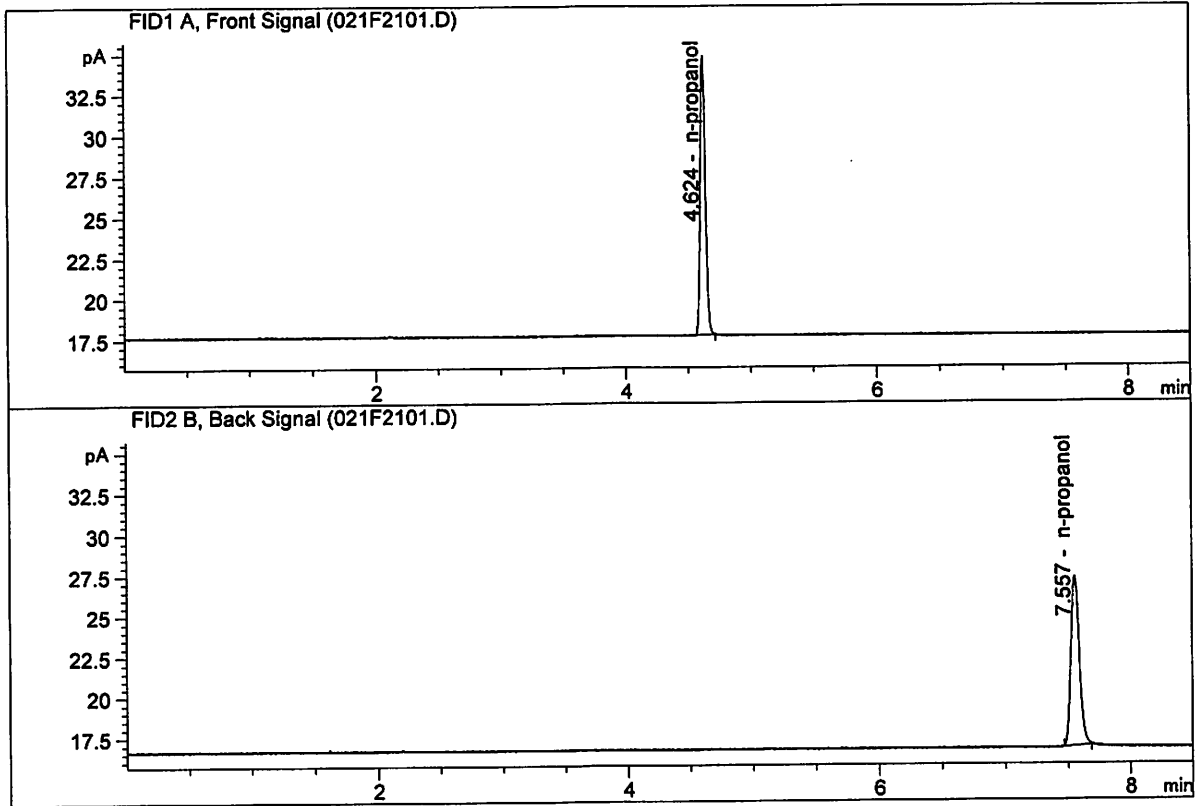
Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	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:	48.66111	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.92752	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

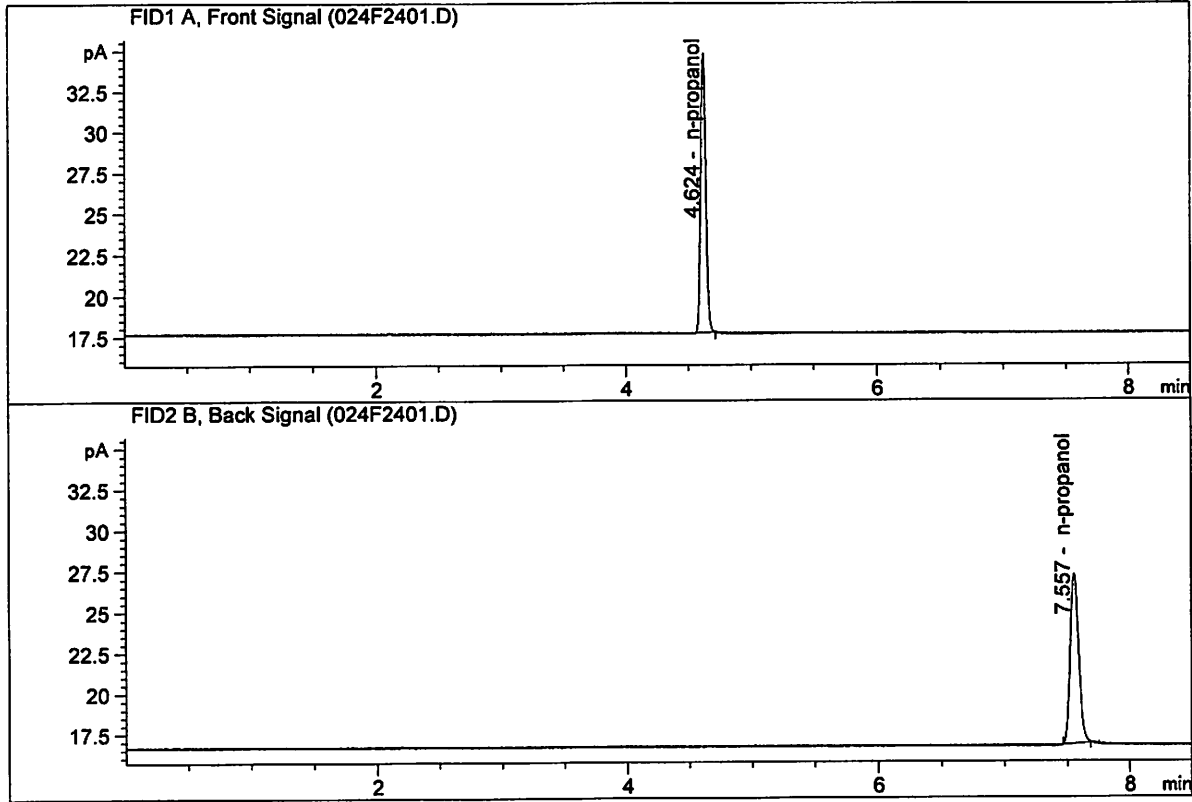
Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	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:	48.64458	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.04656	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
 Laboratory : Meridian
 Injection Date : Oct 31, 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:	48.61103	1.0000	g/100cc
4.	n-Propanol	Column 2:	49.85572	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 31 Oct 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0805	0.0811	0.0006	0.0808	0.0808	
(g/100cc)	0.0803	0.0816	0.0013	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%

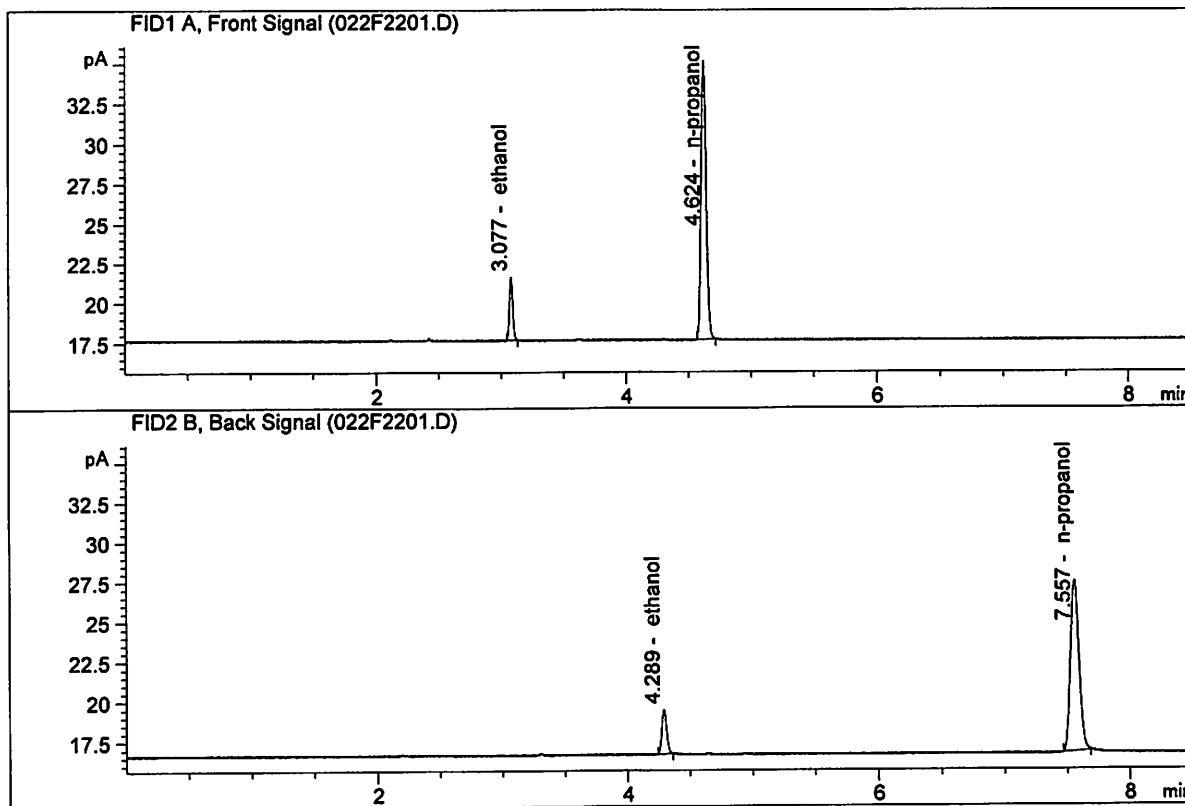
Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	0.076	0.084	0.004

	Reported Result	
	0.080	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

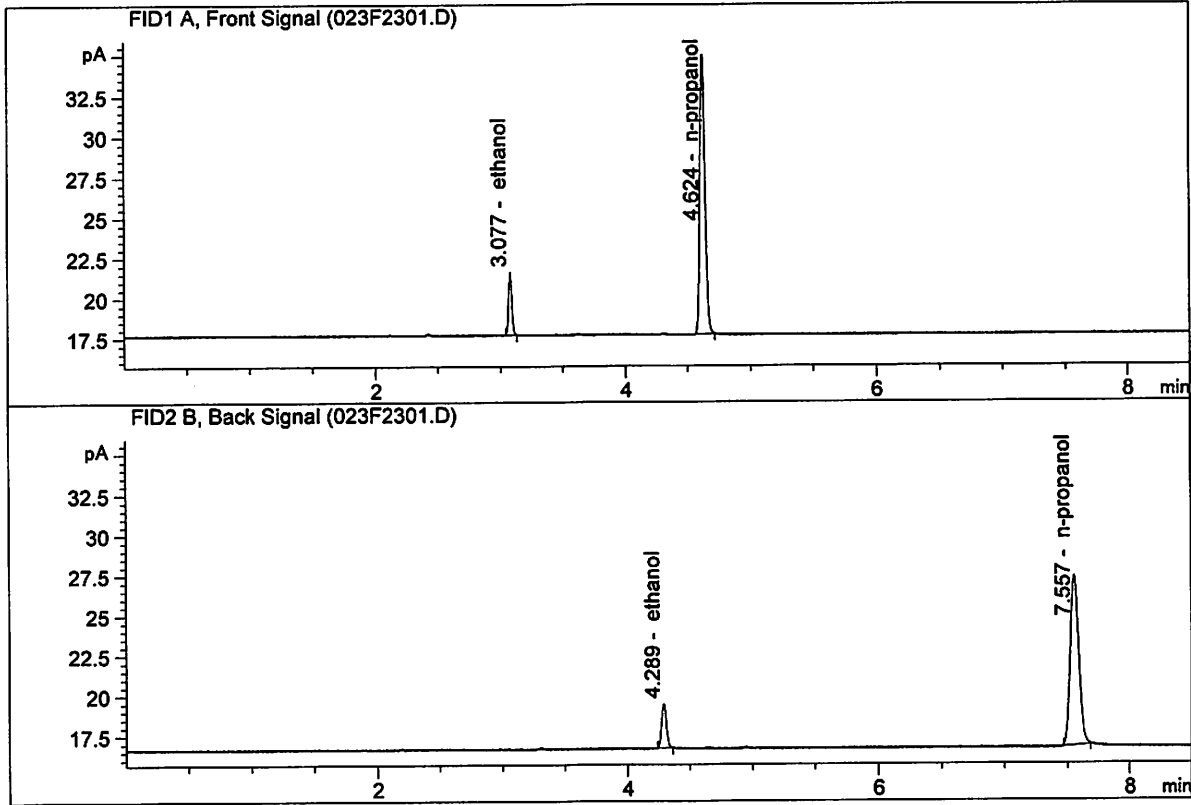
Sample Name : QC1-2-A
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.24818	0.0805	g/100cc
2.	Ethanol	Column 2:	7.37051	0.0811	g/100cc
3.	n-Propanol	Column 1:	49.58873	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.03055	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
 Laboratory : Meridian
 Injection Date : Oct 31, 2018
 Method : ALCOHOL.M
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.17524	0.0803	g/100cc
2.	Ethanol	Column 2:	7.31748	0.0816	g/100cc
3.	n-Propanol	Column 1:	49.21073	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.35202	1.0000	g/100cc