

**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): 7/10/18-7/11/18**  
 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	0.0775 g/100cc 0.0804 g/100cc g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818-0.2222	0.1978 g/100cc 0.2046 g/100cc g/100cc
Multi-Component mixture:		Exp date: Sept 2020	Lot #	FN06041503	OK
Curve Fit:		Column 1	0.99999	Column2	0.99997

**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

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

Issued: 4/22/2015

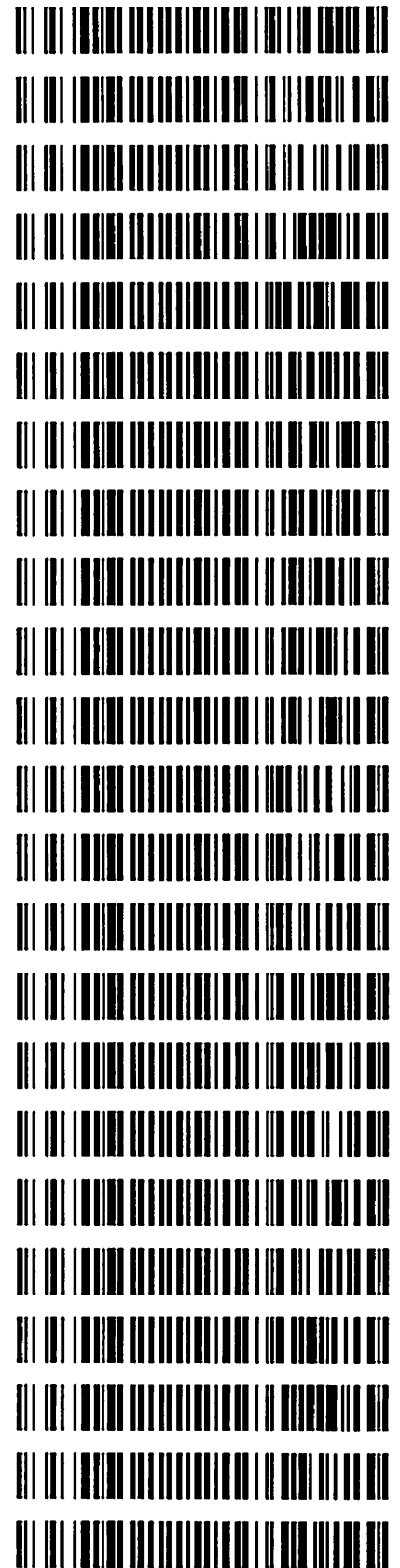
Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

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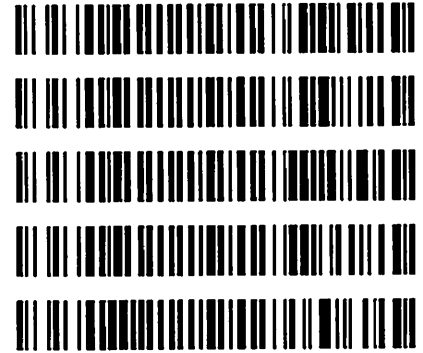
**Worklist: 2557**

<u>LAB CASE</u>	<u>ITEM</u>	<u>TASK ID</u>	<u>DESCRIPTION</u>
M2018-3203	1	119654	Alcohol Analysis
M2018-3218	1	119692	Alcohol Analysis
M2018-3239	1	119814	Alcohol Analysis
M2018-3268	1	119858	Alcohol Analysis
M2018-3287	1	119965	Alcohol Analysis
M2018-3288	1	119969	Alcohol Analysis
M2018-3294	1	119997	Alcohol Analysis
M2018-3303	1	120041	Alcohol Analysis
M2018-3304	1	120045	Alcohol Analysis
M2018-3304	2	120049	Alcohol Analysis
M2018-3307	2	120061	Alcohol Analysis
M2018-3308	1	120217	Alcohol Analysis
M2018-3309	1	120221	Alcohol Analysis
M2018-3310	1	120223	Alcohol Analysis
M2018-3329	1	120371	Alcohol Analysis
M2018-3330	1	121010	Alcohol Analysis
M2018-3331	1	120376	Alcohol Analysis
M2018-3332	1	120383	Alcohol Analysis
M2018-3333	1	120384	Alcohol Analysis
M2018-3349	1	120428	Alcohol Analysis
M2018-3351	1	120462	Alcohol Analysis
M2018-3352	1	120464	Alcohol Analysis
M2018-3353	1	120465	Alcohol Analysis



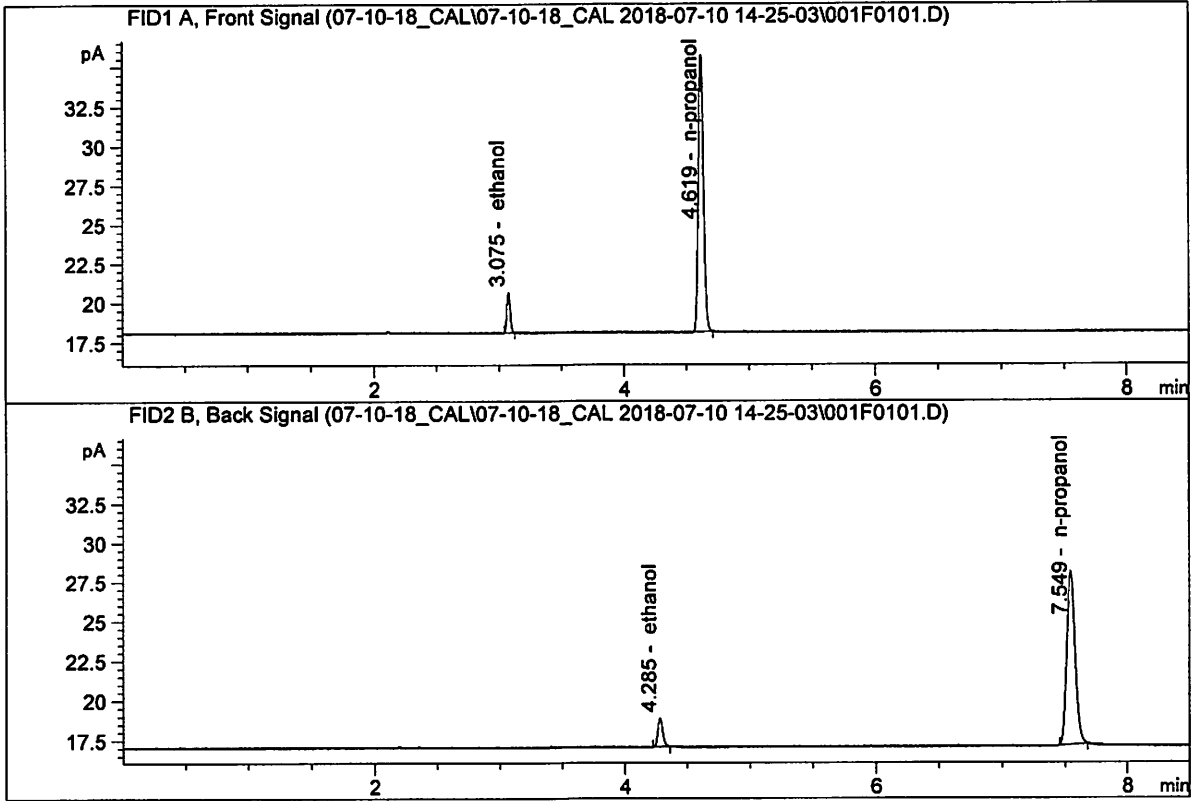
**Worklist: 2557**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>
M2018-3354	1	120466	Alcohol Analysis
M2018-3358	1	120511	Alcohol Analysis
M2018-3364	1	120520	Alcohol Analysis
M2018-3367	1	120532	Alcohol Analysis
P2018-1838	1	119828	Alcohol Analysis



ISP Forensic Services Blood Alcohol Report

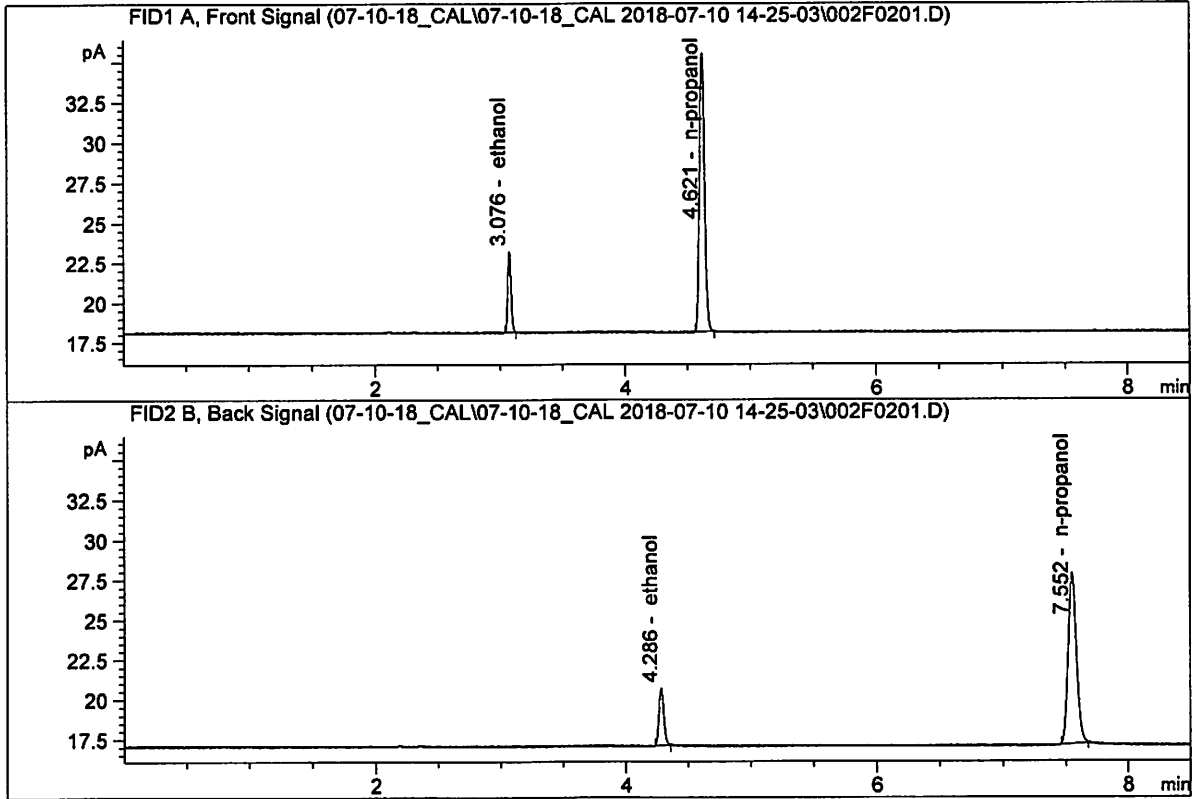
Sample Name : 0.050 FN06231406  
 Laboratory : Meridian  
 Injection Date : Jul 10, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.67261	0.0503	g/100cc
2.	Ethanol	Column 2:	4.86082	0.0516	g/100cc
3.	n-Propanol	Column 1:	49.97264	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.24399	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

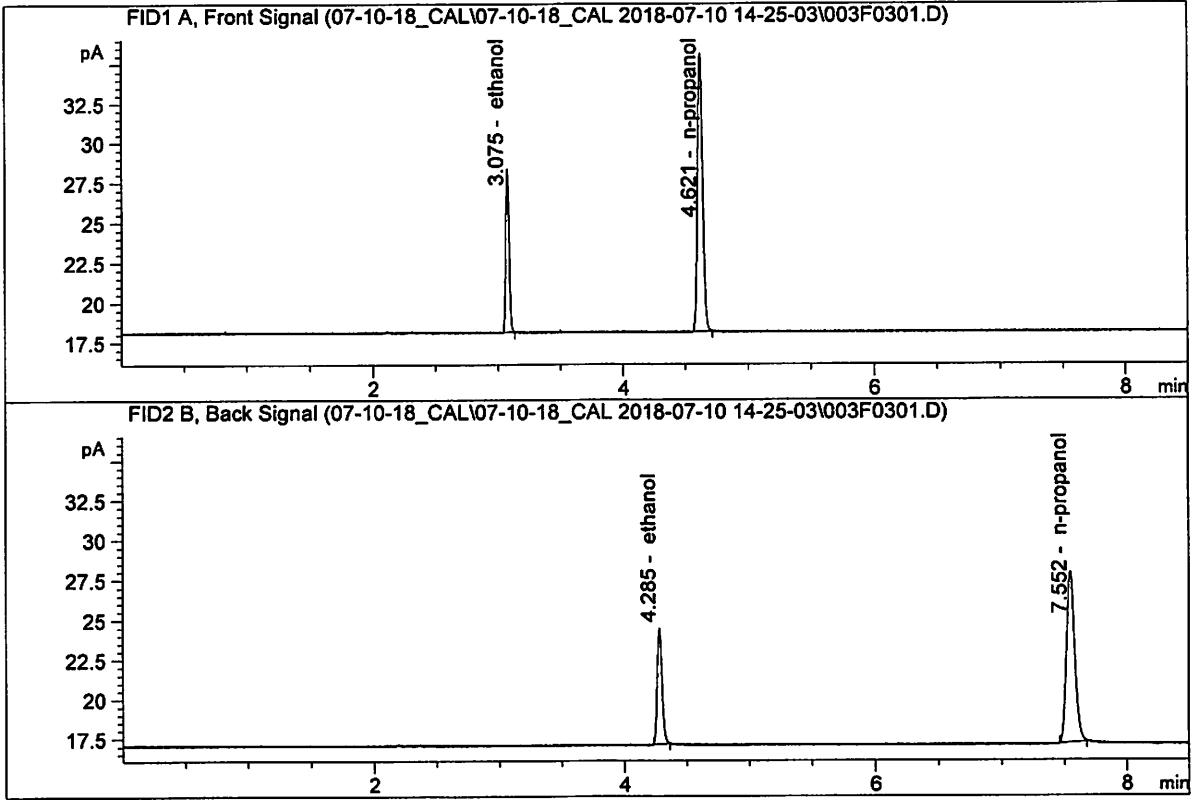
Sample Name : 0.100 FN08101601  
 Laboratory : Meridian  
 Injection Date : Jul 10, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.25944	0.0998	g/100cc
2.	Ethanol	Column 2:	9.55615	0.0993	g/100cc
3.	n-Propanol	Column 1:	49.36300	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.21254	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

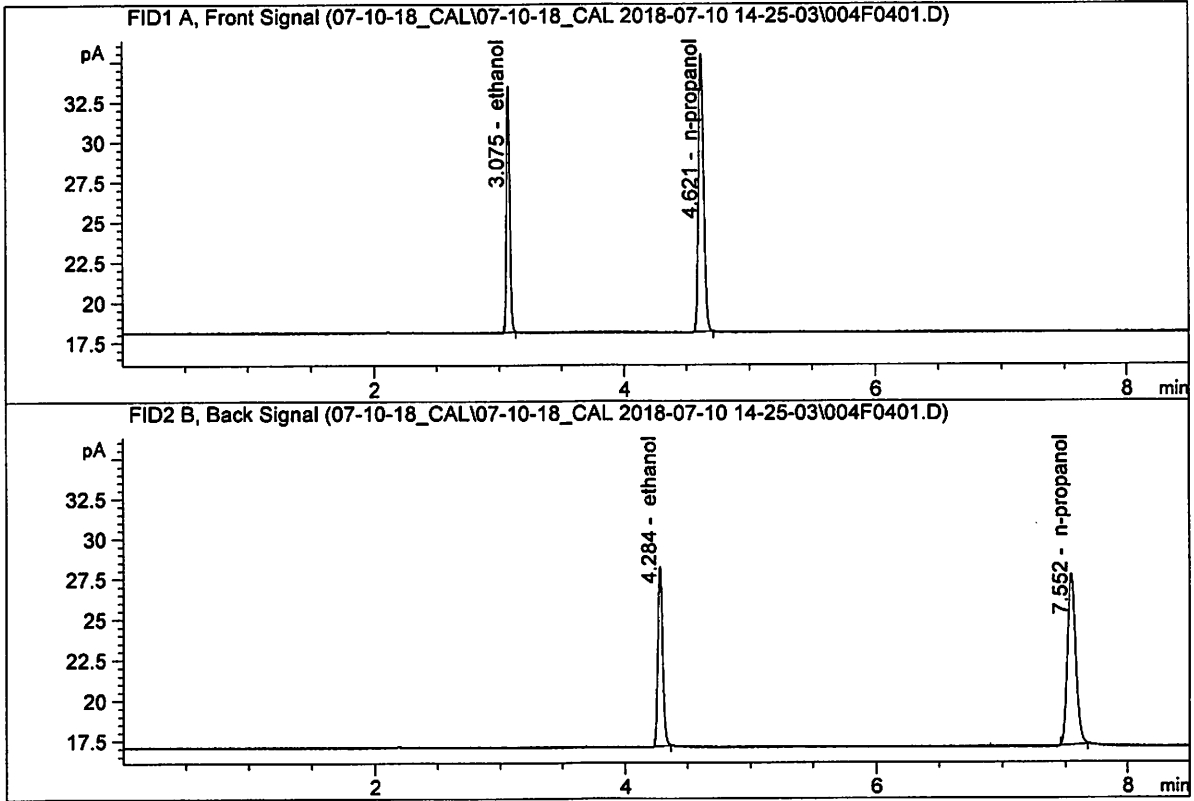
Sample Name : 0.200 FN03301601  
 Laboratory : Meridian  
 Injection Date : Jul 10, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.66077	0.1991	g/100cc
2.	Ethanol	Column 2:	19.52715	0.1982	g/100cc
3.	n-Propanol	Column 1:	49.57147	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.27028	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

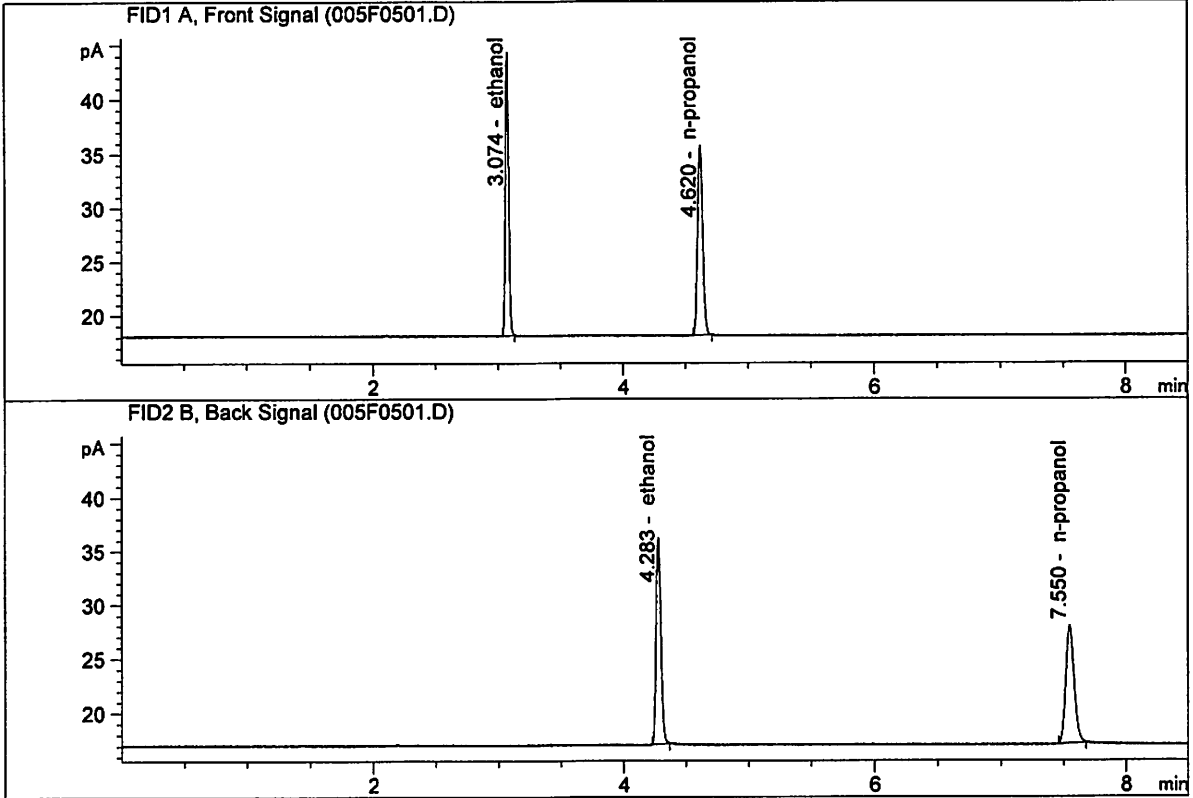
Sample Name : 0.300 FN02121601  
 Laboratory : Meridian  
 Injection Date : Jul 10, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.96343	0.3011	g/100cc
2.	Ethanol	Column 2:	29.40003	0.3004	g/100cc
3.	n-Propanol	Column 1:	49.03791	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.55639	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN08031602  
 Laboratory : Meridian  
 Injection Date : Jul 10, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167

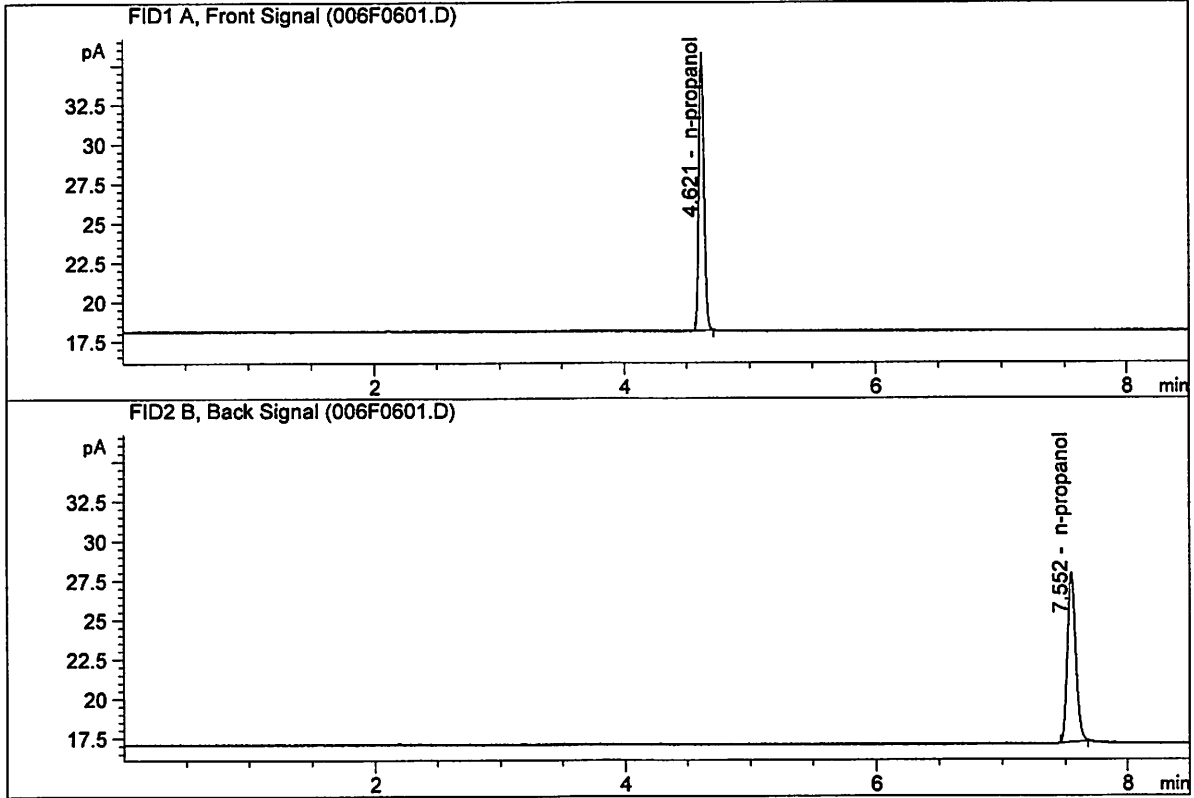


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	47.56594	0.4997	g/100cc
2.	Ethanol	Column 2:	50.42316	0.5004	g/100cc
3.	n-Propanol	Column 1:	50.19606	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.76154	1.0000	g/100cc



ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK  
 Laboratory : Meridian  
 Injection Date : Jul 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:	50.05969	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.67260	1.0000	g/100cc

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

Sequence table: C:\Chem32\1\Data\07-10-18\_CAL\07-10-18\_CAL 2018-07-10 14-25-03\07-10-18\_CAL.S  
 Data directory path: C:\Chem32\1\Data\07-10-18\_CAL\07-10-18\_CAL 2018-07-10 14-25-03\  
 Logbook: C:\Chem32\1\Data\07-10-18\_CAL\07-10-18\_CAL 2018-07-10 14-25-03\07-10-18\_CAL.LOG  
 Sequence start: 7/10/2018 2:39:41 PM  
 Sequence Operator: SYSTEM  
 Operator: SYSTEM

Method file name: C:\Chem32\1\Data\07-10-18\_CAL\07-10-18\_CAL 2018-07-10 14-25-03\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 FN03301601	-	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

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Calibration Table  
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General Calibration Setting  
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Calib. Data Modified : Tuesday, July 10, 2018 3:30:12 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

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

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Overview Table  
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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	4.67261	1.07006e-2	No	No 1	ethanol
		2	1.00000e-1	9.25944	1.07998e-2			
		3	2.00000e-1	18.66077	1.07177e-2			
		4	3.00000e-1	27.96343	1.07283e-2			
		5	5.00000e-1	47.56594	1.05117e-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	4.86082	1.02863e-2	No	No 2	ethanol
		2	1.00000e-1	9.55615	1.04645e-2			
		3	2.00000e-1	19.52715	1.02422e-2			
		4	3.00000e-1	29.40003	1.02041e-2			
		5	5.00000e-1	50.42316	9.91608e-3			
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No 1	acetone
4.620	1	1	1.00000	49.97264	2.00110e-2	No	Yes 1	n-propanol
		2	1.00000	49.36300	2.02581e-2			
		3	1.00000	49.57147	2.01729e-2			
		4	1.00000	49.03791	2.03924e-2			
		5	1.00000	50.19606	1.99219e-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	52.24399	1.91410e-2	No	Yes 2	n-propanol
		2	1.00000	51.21254	1.95265e-2			
		3	1.00000	51.27028	1.95045e-2			
		4	1.00000	50.55639	1.97799e-2			
		5	1.00000	51.76154	1.93194e-2			

Peak Sum Table

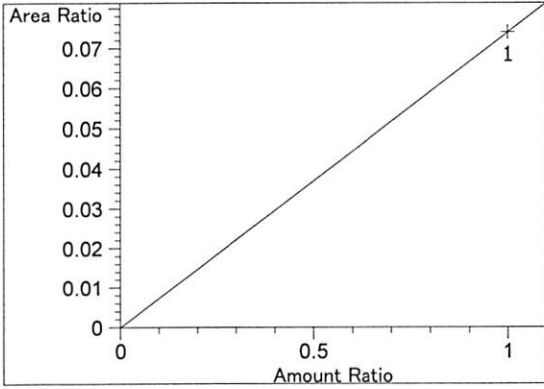
\*\*\*No Entries in table\*\*\*

51 Warnings or Errors (10 first messages follow) :

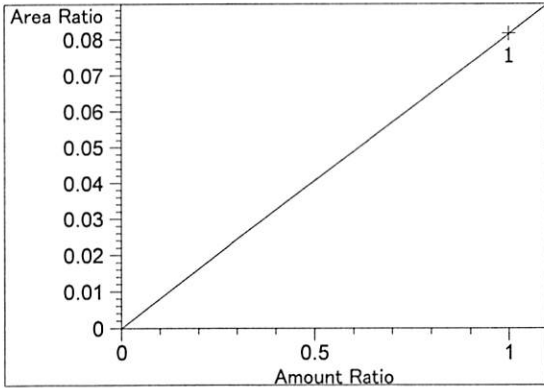
- Warning : Curve requires more calibration points., (methanol)
- Warning : Curve requires more calibration points. at 2.586 min, signal 1
- Warning : Curve requires more calibration points. at 2.809 min, signal 1
- Warning : Curve requires more calibration points. at 2.977 min, signal 2
- Warning : Curve requires more calibration points. at 3.388 min, signal 2
- Warning : Curve requires more calibration points. at 3.628 min, signal 1
- Warning : Curve requires more calibration points. at 4.308 min, signal 1
- Warning : Curve requires more calibration points. at 4.62 min, signal 1
- Warning : Curve requires more calibration points. at 4.661 min, signal 2
- Warning : Curve requires more calibration points. at 4.969 min, signal 2

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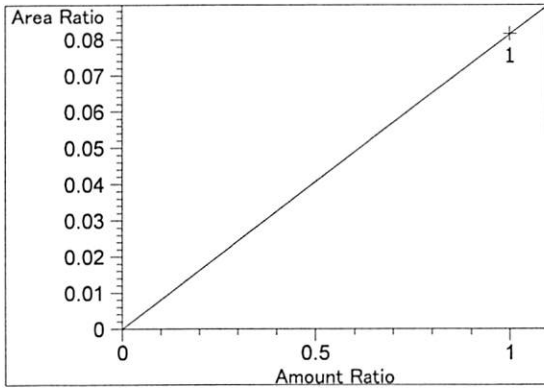
=====  
 Calibration Curves  
 =====



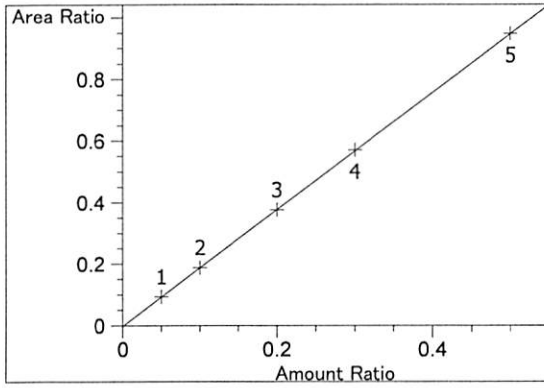
methanol at exp. RT: 2.586  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx + b$   
 m: 7.39744e-2  
 b: 0.00000  
 x: Amount Ratio  
 y: Area Ratio



Acetaldehyde at exp. RT: 2.809  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx + b$   
 m: 8.15596e-2  
 b: 0.00000  
 x: Amount Ratio  
 y: Area Ratio

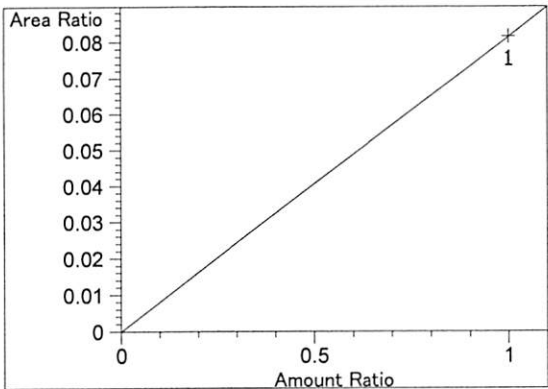


Acetaldehyde at exp. RT: 2.977  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx + b$   
 m: 8.15596e-2  
 b: 0.00000  
 x: Amount Ratio  
 y: Area Ratio

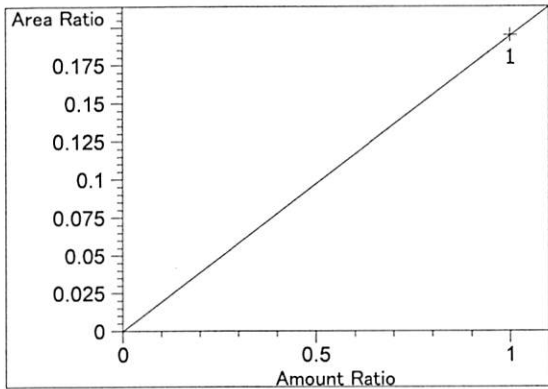


ethanol at exp. RT: 3.075  
 FID1 A, Front Signal  
 Correlation: 0.99999  
 Residual Std. Dev.: 0.00163  
 Formula:  $y = mx + b$   
 m: 1.90047  
 b: -2.03530e-3  
 x: Amount Ratio  
 y: Area Ratio

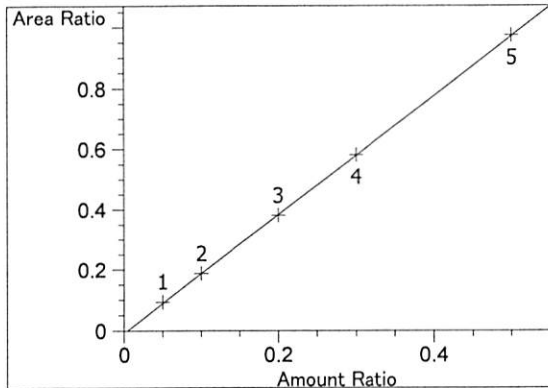
JC



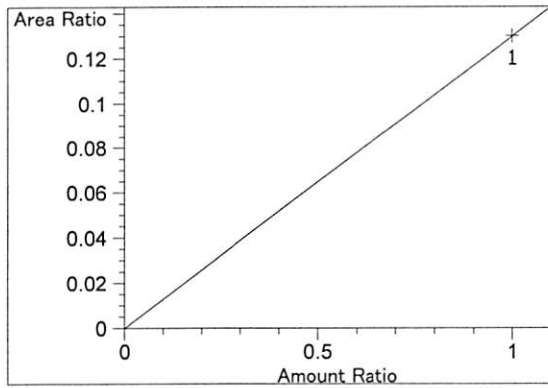
methanol at exp. RT: 3.388  
 FID2 B, Back Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx + b$   
 m: 8.15524e-2  
 b: 0.00000  
 x: Amount Ratio  
 y: Area Ratio



isopropyl alcohol at exp. RT: 3.628  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx + b$   
 m: 1.94718e-1  
 b: 0.00000  
 x: Amount Ratio  
 y: Area Ratio

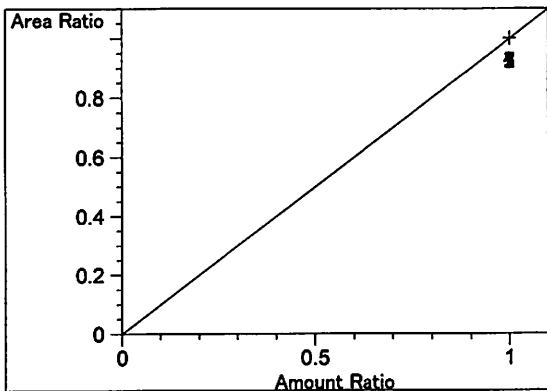


ethanol at exp. RT: 4.285  
 FID2 B, Back Signal  
 Correlation: 0.99997  
 Residual Std. Dev.: 0.00293  
 Formula:  $y = mx + b$   
 m: 1.96324  
 b: -8.30957e-3  
 x: Amount Ratio  
 y: Area Ratio

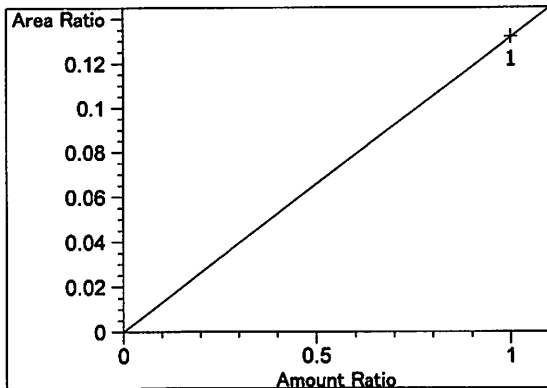


acetone at exp. RT: 4.308  
 FID1 A, Front Signal  
 Correlation: 1.00000  
 Residual Std. Dev.: 0.00000  
 Formula:  $y = mx + b$   
 m: 1.30059e-1  
 b: 0.00000  
 x: Amount Ratio  
 y: Area Ratio

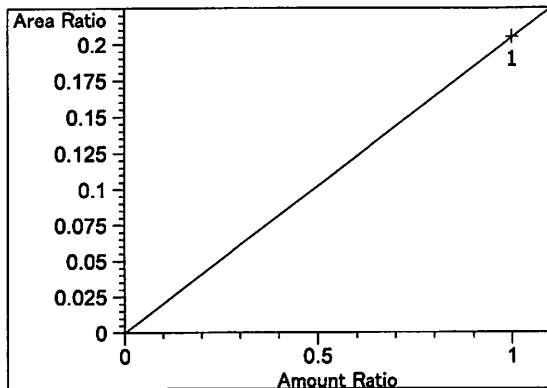
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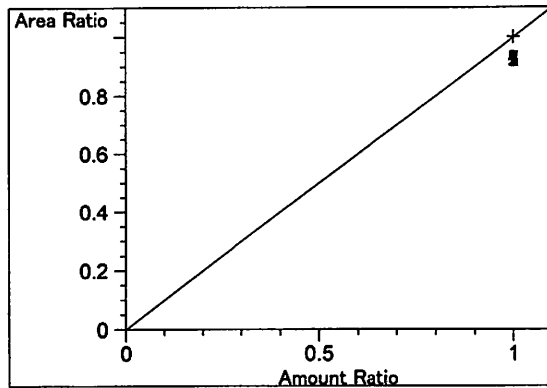
n-propanol at exp. RT: 4.620  
FID1 A, Front Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx + b$   
m: 1.00000  
b: 0.00000  
x: Amount Ratio  
y: Area Ratio



acetone at exp. RT: 4.661  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx + b$   
m: 1.31939e-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: 2.04931e-1  
b: 0.00000  
x: Amount Ratio  
y: Area Ratio



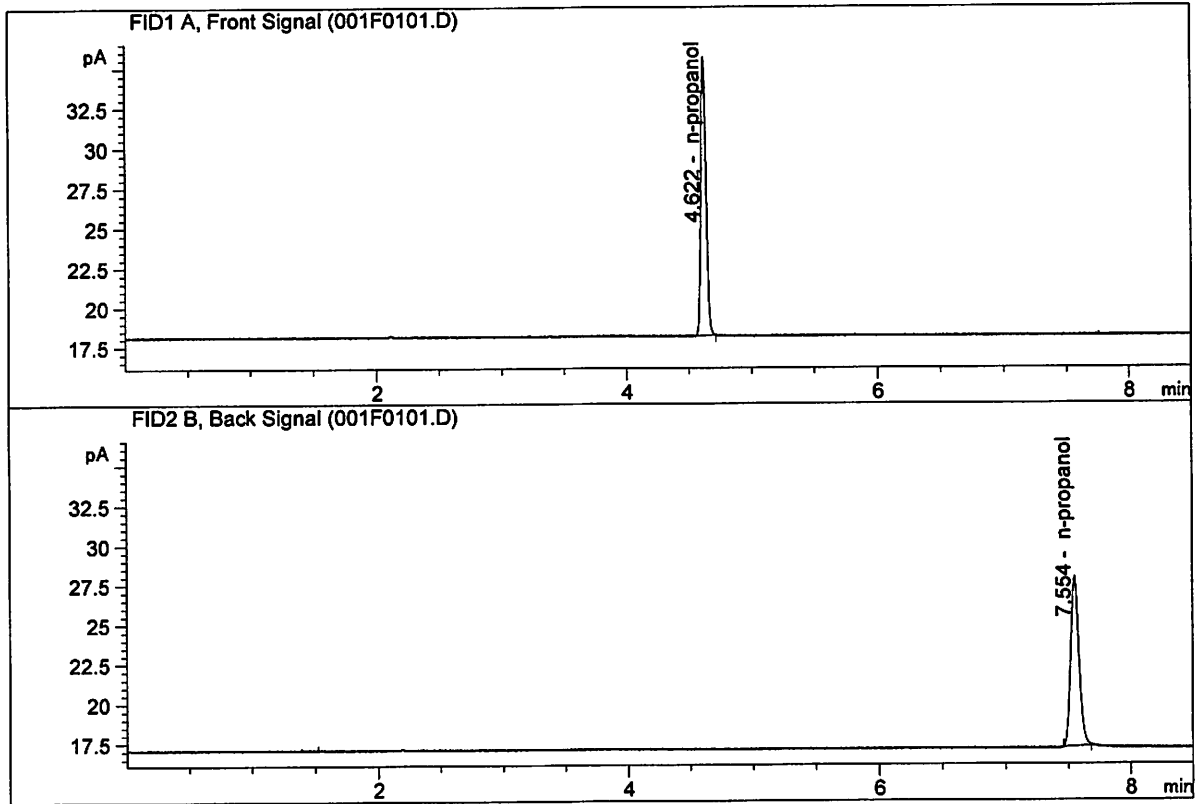
n-propanol at exp. RT: 7.550  
FID2 B, Back Signal  
Correlation: 1.00000  
Residual Std. Dev.: 0.00000  
Formula:  $y = mx + b$   
m: 1.00000  
b: 0.00000  
x: Amount Ratio  
y: Area Ratio

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ISP Forensic Services Blood Alcohol Report

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

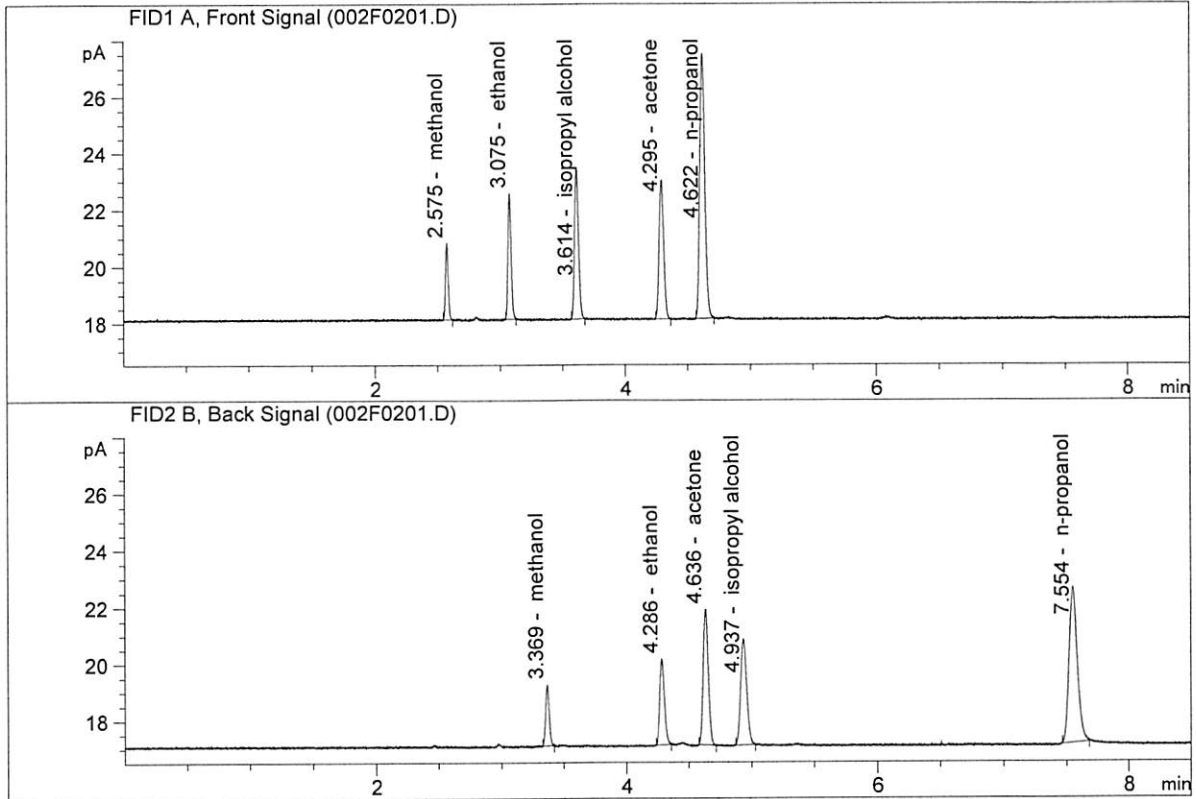


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	49.62585	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.32116	1.0000	g/100cc



ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN06041503  
 Laboratory : Meridian  
 Injection Date : Jul 10, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.87964	0.1581	g/100cc
2.	Ethanol	Column 2:	8.06467	0.1588	g/100cc
3.	n-Propanol	Column 1:	26.40301	1.0000	g/100cc
4.	n-Propanol	Column 2:	26.56903	1.0000	g/100cc

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## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1

Analysis Date(s): 10 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	0.0775	
(g/100cc)	0.0777	0.0781	0.0004	0.0779		

### 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

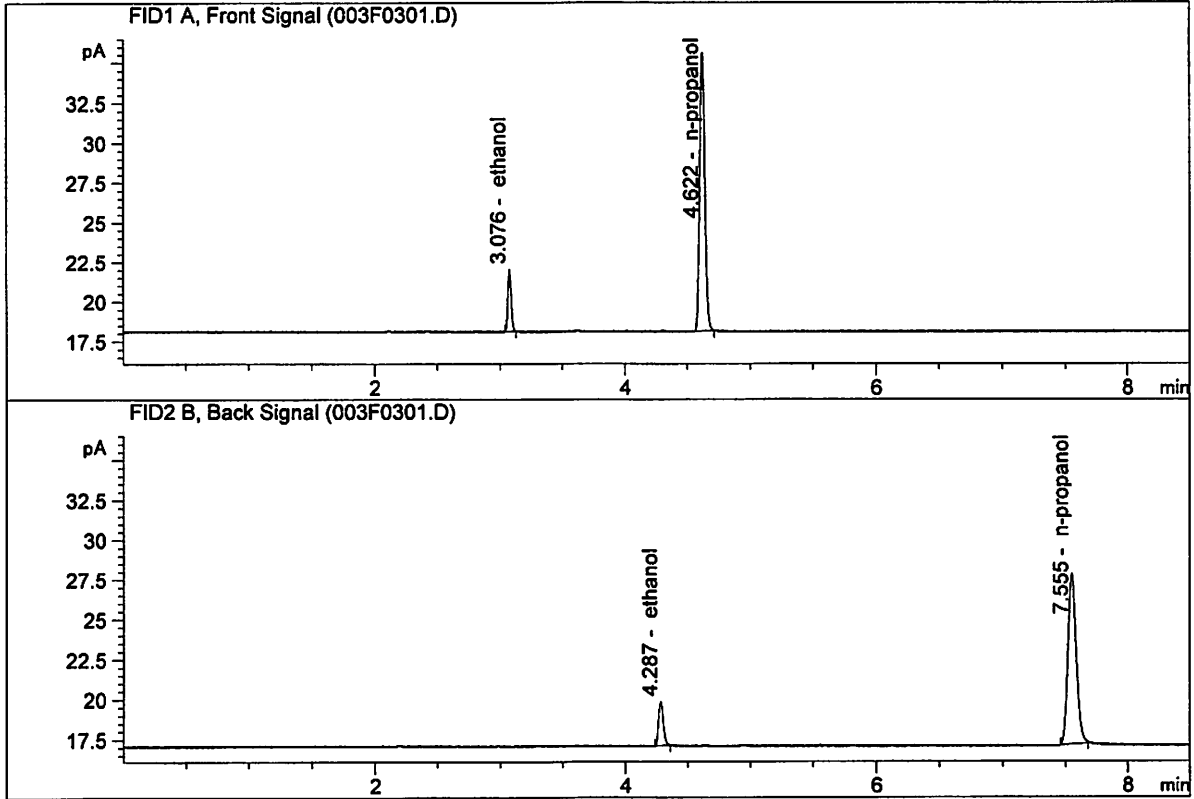
	<b>Reported Result</b>  0.077	
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*Calibration and control data are stored centrally.*

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ISP Forensic Services Blood Alcohol Report

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

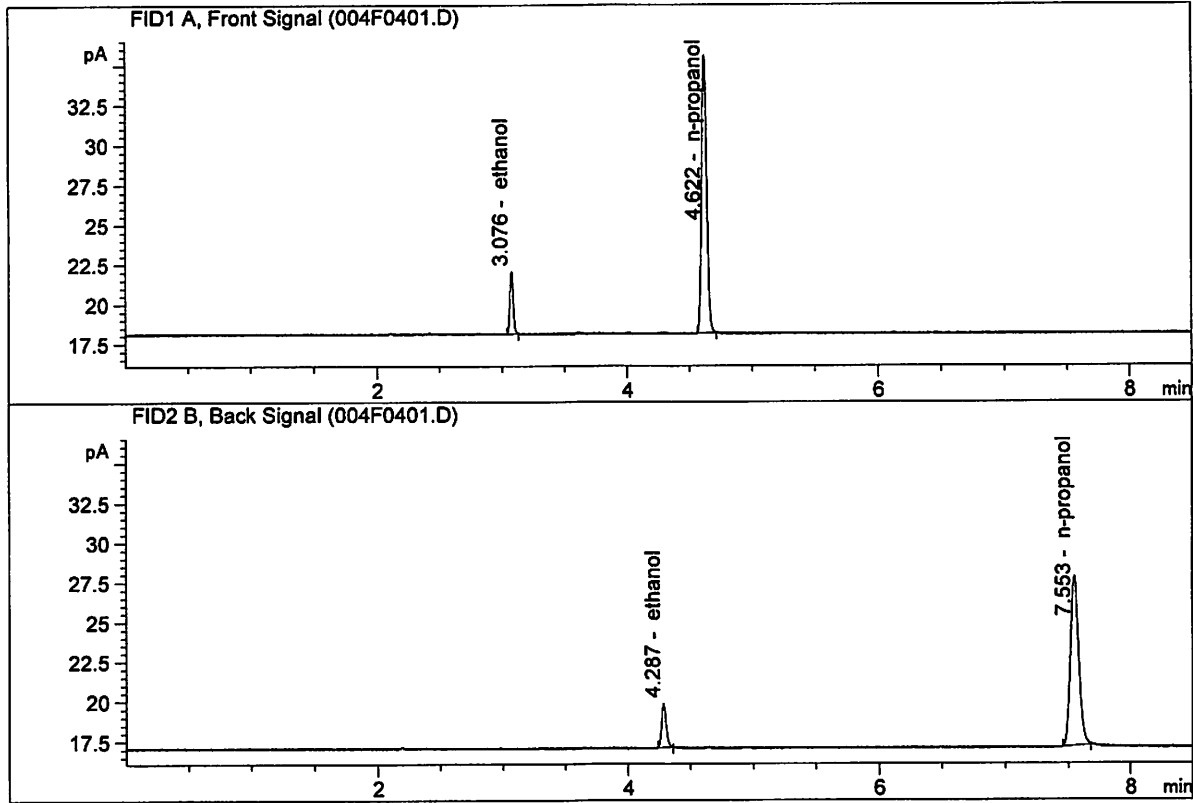


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.16884	0.0770	g/100cc
2.	Ethanol	Column 2:	7.33748	0.0774	g/100cc
3.	n-Propanol	Column 1:	49.67117	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.09254	1.0000	g/100cc

JK

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.21554	0.0777	g/100cc
2.	Ethanol	Column 2:	7.37814	0.0781	g/100cc
3.	n-Propanol	Column 1:	49.52266	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.88764	1.0000	g/100cc

2

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510

Analysis Date(s): 10 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0807	0.0809	0.0002	0.0808	0.0809	
(g/100cc)	0.0803	0.0817	0.0014	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: 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.*

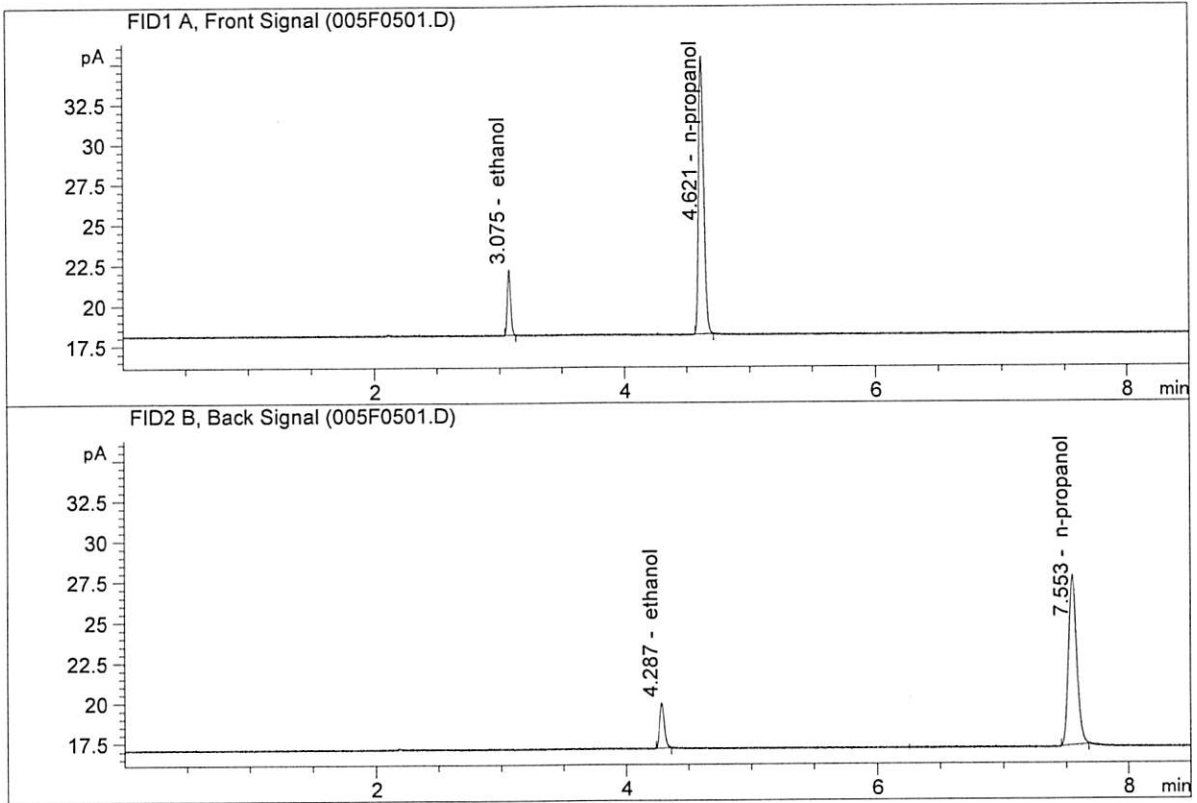
Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

ISP Forensic Services Blood Alcohol Report

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

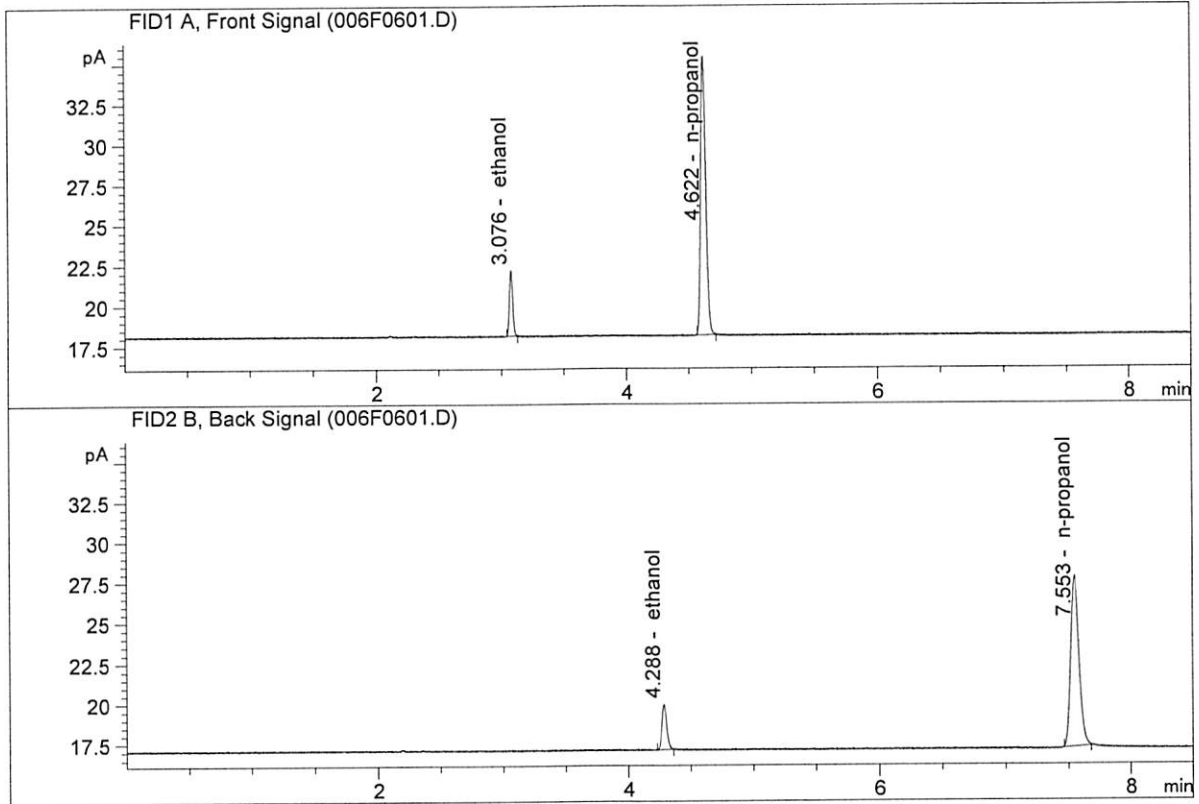


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.39015	0.0807	g/100cc
2.	Ethanol	Column 2:	7.55116	0.0809	g/100cc
3.	n-Propanol	Column 1:	48.85632	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.14248	1.0000	g/100cc

JK

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.39206	0.0803	g/100cc
2.	Ethanol	Column 2:	7.65743	0.0817	g/100cc
3.	n-Propanol	Column 1:	49.09184	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.34402	1.0000	g/100cc

JK

## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1

Analysis Date(s): 10 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.1973	0.1972	0.0001	0.1972	0.1978
(g/100cc)	0.1988	0.1979	0.0009	0.1983	

### 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

	<b>Reported Result</b>	
	0.197	

*Calibration and control data are stored centrally.*

Issued: 12/30/2016

Volatiles BAC Calculation Spreadsheet Rev 4

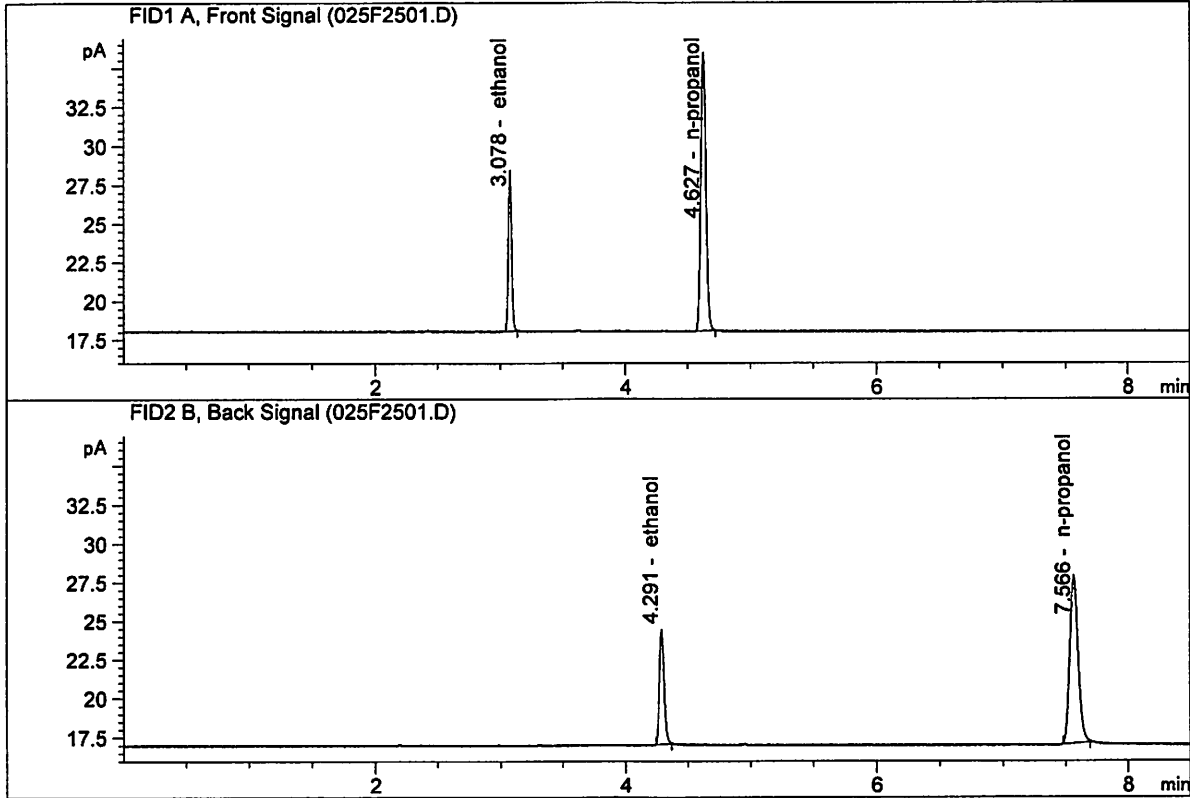
Issuing Authority: Quality Manager

JG



ISP Forensic Services Blood Alcohol Report

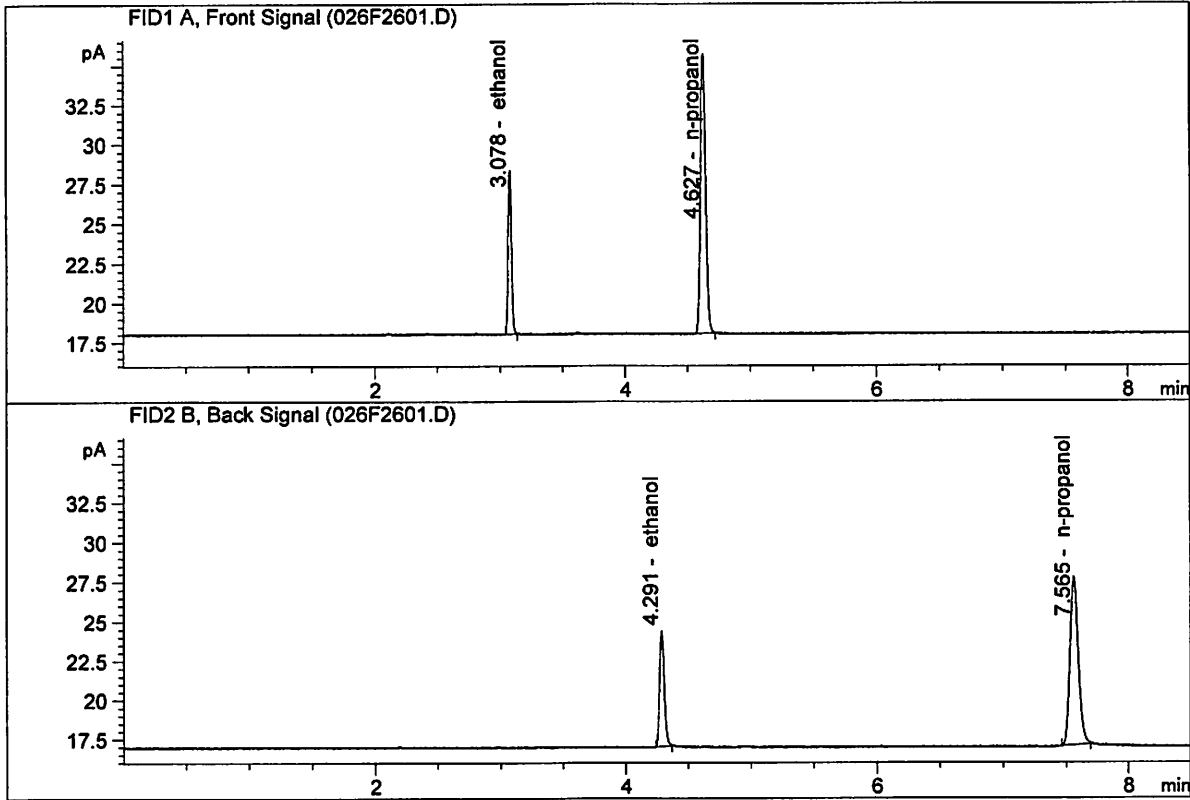
Sample Name : QC2-1-A  
 Laboratory : Meridian  
 Injection Date : Jul 10, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.00203	0.1973	g/100cc
2.	Ethanol	Column 2:	19.77265	0.1972	g/100cc
3.	n-Propanol	Column 1:	50.96251	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.18586	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.88765	0.1988	g/100cc
2.	Ethanol	Column 2:	19.61930	0.1979	g/100cc
3.	n-Propanol	Column 1:	50.27271	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.59497	1.0000	g/100cc

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# VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2

Analysis Date(s): 11 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0801	0.0806	0.0005	0.0803	0.0804	
(g/100cc)	0.0803	0.0809	0.0006	0.0806		

**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

	<b>Reported Result</b>	
	0.080	

*Calibration and control data are stored centrally.*

Issued: 12/30/2016

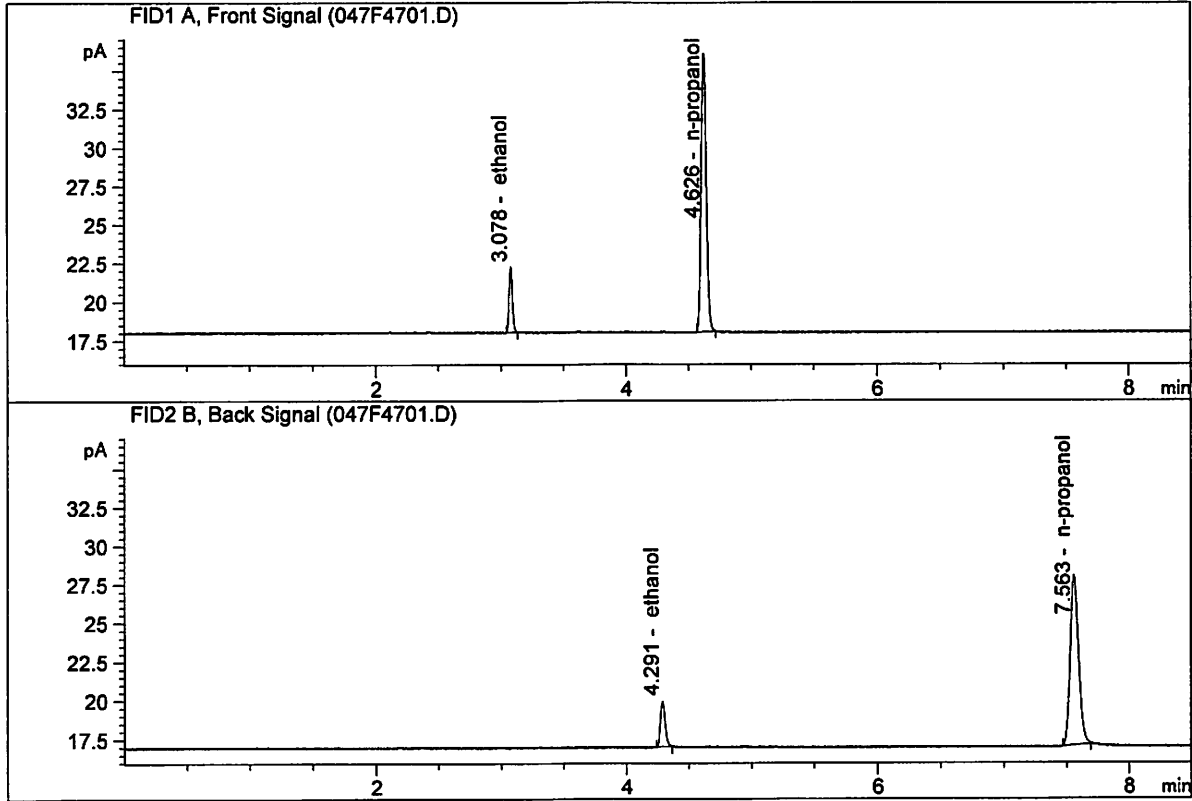
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

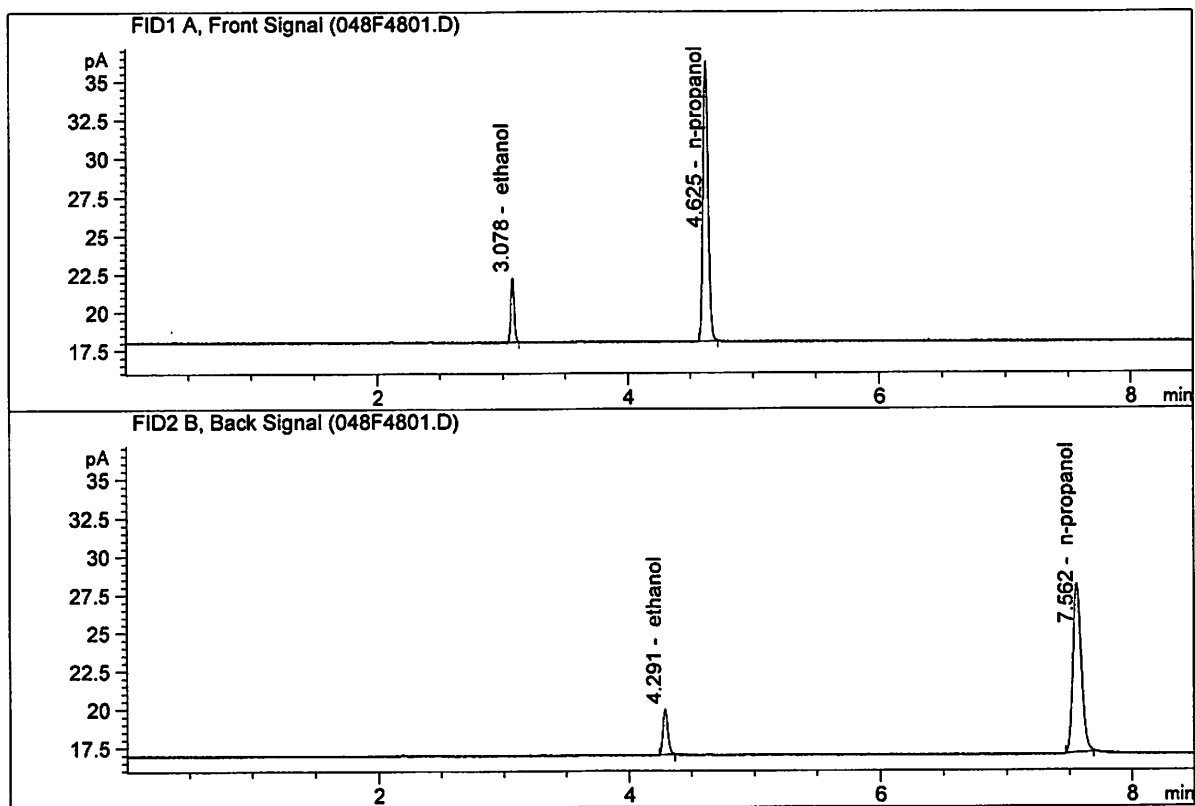
Sample Name : QC1-2-A  
 Laboratory : Meridian  
 Injection Date : Jul 11, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.70953	0.0801	g/100cc
2.	Ethanol	Column 2:	7.89295	0.0806	g/100cc
3.	n-Propanol	Column 1:	51.36122	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.61089	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

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



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.77575	0.0803	g/100cc
2.	Ethanol	Column 2:	7.96051	0.0809	g/100cc
3.	n-Propanol	Column 1:	51.62154	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.90167	1.0000	g/100cc

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## VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2

Analysis Date(s): 11 Jul 2018

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2066	0.2061	0.0005	0.2063	0.2046
(g/100cc)	0.2030	0.2030	0.0000	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: ML600HC11378

**Reporting of Results**

**Uncertainty of Measurement (UM%): 5.00%**

Overall Mean (g/100cc)	Low	High	5% of Mean
0.204	0.193	0.215	0.011

	<b>Reported Result</b>	
	0.204	

*Calibration and control data are stored centrally.*

Issued: 12/30/2016

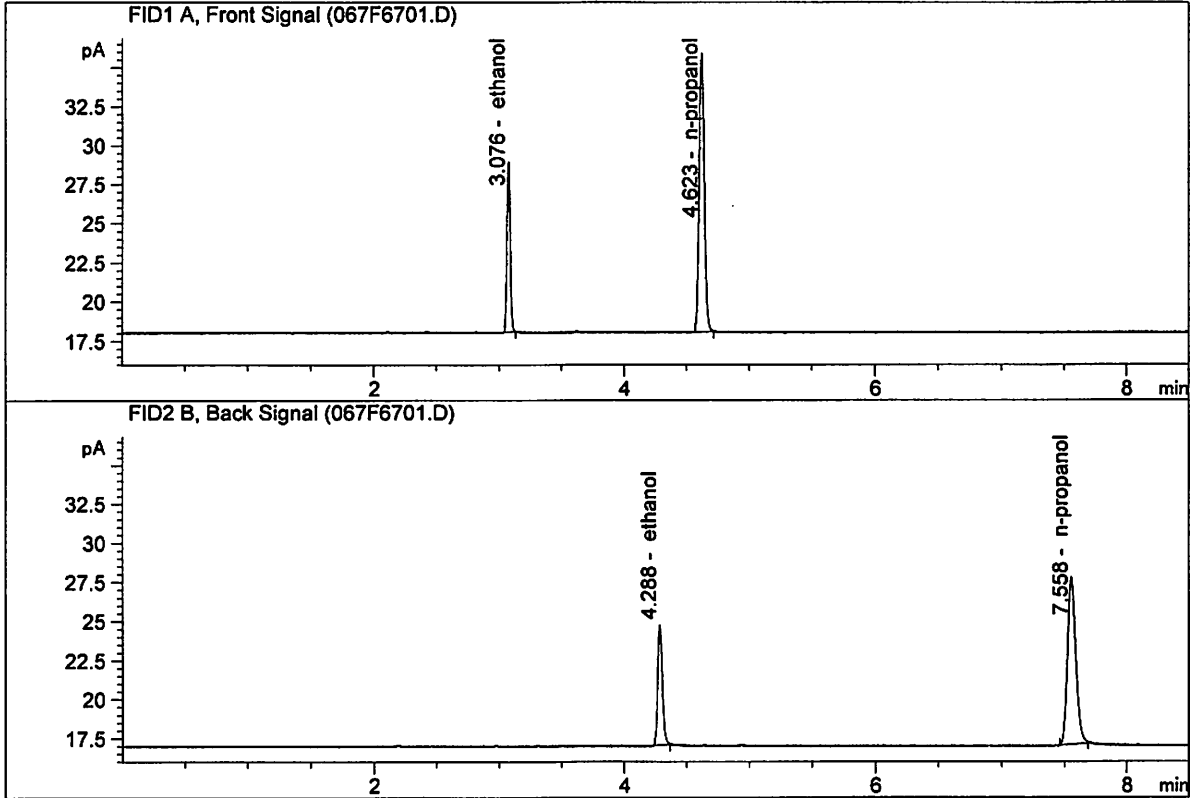
Volatiles BAC Calculation Spreadsheet Rev 4

Issuing Authority: Quality Manager

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ISP Forensic Services Blood Alcohol Report

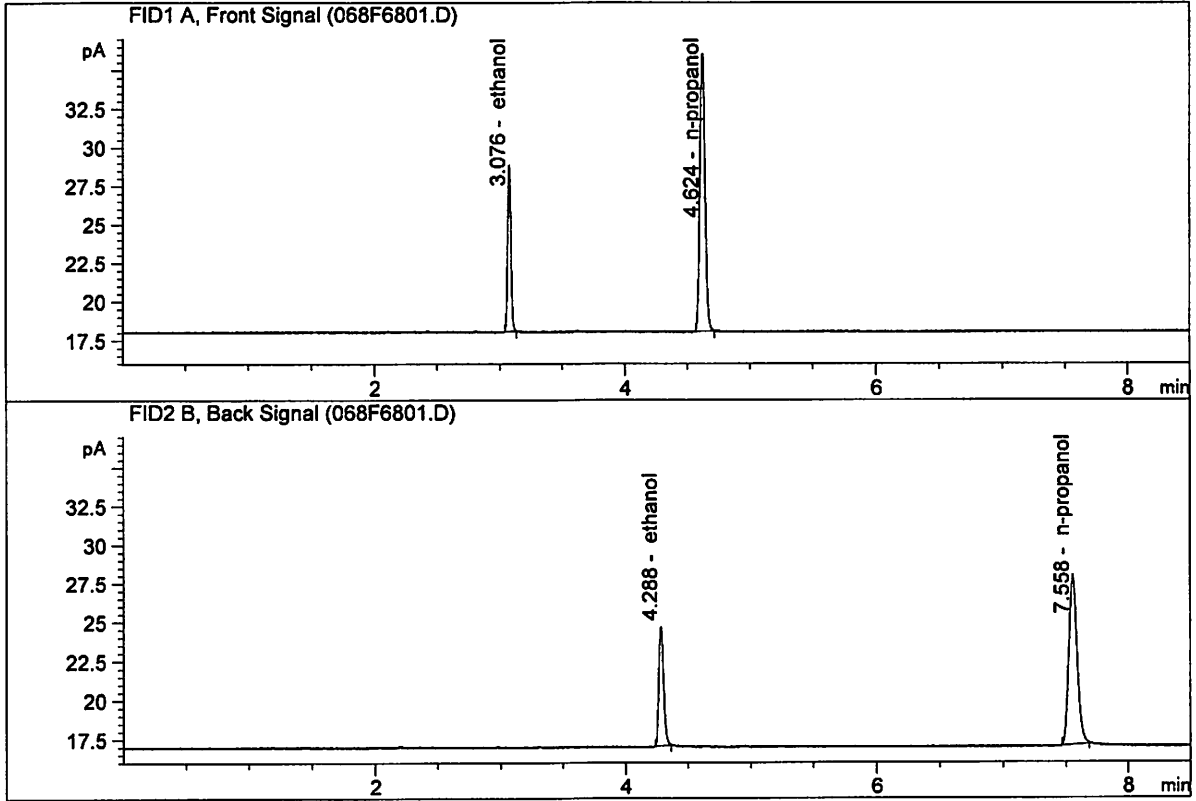
Sample Name : QC2-2-A  
 Laboratory : Meridian  
 Injection Date : Jul 11, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.69617	0.2066	g/100cc
2.	Ethanol	Column 2:	20.41774	0.2061	g/100cc
3.	n-Propanol	Column 1:	50.43140	1.0000	g/100cc
4.	n-Propanol	Column 2:	51.51976	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B  
 Laboratory : Meridian  
 Injection Date : Jul 11, 2018  
 Method : ALCOHOL.M  
 Acq. Instrument: CN11180014-CN11041167



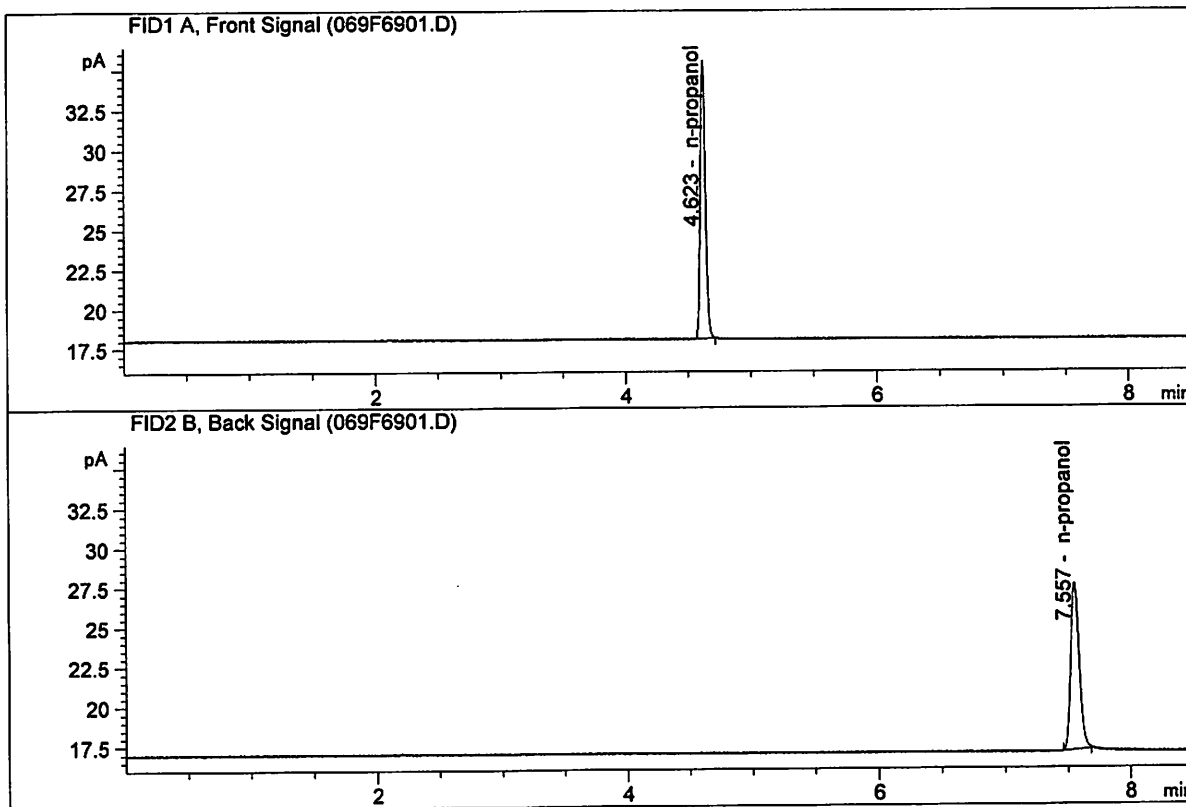
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	19.62873	0.2030	g/100cc
2.	Ethanol	Column 2:	20.34408	0.2030	g/100cc
3.	n-Propanol	Column 1:	51.15518	1.0000	g/100cc
4.	n-Propanol	Column 2:	52.14121	1.0000	g/100cc

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ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1  
 Laboratory : Meridian  
 Injection Date : Jul 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:	49.50184	1.0000	g/100cc
4.	n-Propanol	Column 2:	50.57494	1.0000	g/100cc

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

Sequence table: C:\Chem32\1\Data\06-27-18\_SAMPLES\07-10-18\_SAMPLES 2018-07-10 15-55-33\07-10-18\_SAMPLES.S  
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 Logbook: C:\Chem32\1\Data\06-27-18\_SAMPLES\07-10-18\_SAMPLES 2018-07-10 15-55-33\07-10-18\_SAMPLES.LOG  
 Sequence start: 7/10/2018 4:10:20 PM  
 Sequence Operator: SYSTEM  
 Operator: SYSTEM  
 Method file name: C:\Chem32\1\Data\06-27-18\_SAMPLES\07-10-18\_SAMPLES 2018-07-10 15-55-33\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	M2018-3203-1-A	-	1.0000	007F0701.D		6
8	8	1	M2018-3203-1-B	-	1.0000	008F0801.D		6
9	9	1	M2018-3218-1-A	-	1.0000	009F0901.D		6
10	10	1	M2018-3218-1-B	-	1.0000	010F1001.D		6
11	11	1	M2018-3239-1-A	-	1.0000	011F1101.D		4
12	12	1	M2018-3239-1-B	-	1.0000	012F1201.D		4
13	13	1	M2018-3268-1-A	-	1.0000	013F1301.D		6
14	14	1	M2018-3268-1-B	-	1.0000	014F1401.D		6
15	15	1	M2018-3287-1-A	-	1.0000	015F1501.D		6
16	16	1	M2018-3287-1-B	-	1.0000	016F1601.D		6
17	17	1	M2018-3288-1-A	-	1.0000	017F1701.D		6
18	18	1	M2018-3288-1-B	-	1.0000	018F1801.D		6
19	19	1	M2018-3294-1-A	-	1.0000	019F1901.D		6
20	20	1	M2018-3294-1-B	-	1.0000	020F2001.D		6
21	21	1	M2018-3303-1-A	-	1.0000	021F2101.D		2
22	22	1	M2018-3303-1-B	-	1.0000	022F2201.D		2
23	23	1	M2018-3304-1-A	-	1.0000	023F2301.D		2
24	24	1	M2018-3304-1-B	-	1.0000	024F2401.D		2
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	M2018-3304-2-A	-	1.0000	027F2701.D		6
28	28	1	M2018-3304-2-B	-	1.0000	028F2801.D		6
29	29	1	M2018-3307-2-A	-	1.0000	029F2901.D		2
30	30	1	M2018-3307-2-B	-	1.0000	030F3001.D		2
31	31	1	M2018-3308-1-A	-	1.0000	031F3101.D		6
32	32	1	M2018-3308-1-B	-	1.0000	032F3201.D		6
33	33	1	M2018-3309-1-A	-	1.0000	033F3301.D		6
34	34	1	M2018-3309-1-B	-	1.0000	034F3401.D		6
35	35	1	M2018-3310-1-A	-	1.0000	035F3501.D		6
36	36	1	M2018-3310-1-B	-	1.0000	036F3601.D		6
37	37	1	M2018-3329-1-A	-	1.0000	037F3701.D		6
38	38	1	M2018-3329-1-B	-	1.0000	038F3801.D		6
39	39	1	M2018-3330-1-A	-	1.0000	039F3901.D		6
40	40	1	M2018-3330-1-B	-	1.0000	040F4001.D		6
41	41	1	M2018-3331-1-A	-	1.0000	041F4101.D		2
42	42	1	M2018-3331-1-B	-	1.0000	042F4201.D		2
43	43	1	M2018-3332-1-A	-	1.0000	043F4301.D		6

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Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
44	44	1	M2018-3332-1-B	-	1.0000	044F4401.D		6
45	45	1	M2018-3333-1-A	-	1.0000	045F4501.D		6
46	46	1	M2018-3333-1-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	M2018-3349-1-A	-	1.0000	049F4901.D		6
50	50	1	M2018-3349-1-B	-	1.0000	050F5001.D		6
51	51	1	M2018-3351-1-A	-	1.0000	051F5101.D		6
52	52	1	M2018-3351-1-B	-	1.0000	052F5201.D		6
53	53	1	M2018-3352-1-A	-	1.0000	053F5301.D		6
54	54	1	M2018-3352-1-B	-	1.0000	054F5401.D		6
55	55	1	M2018-3353-1-A	-	1.0000	055F5501.D		6
56	56	1	M2018-3353-1-B	-	1.0000	056F5601.D		6
57	57	1	M2018-3354-1-A	-	1.0000	057F5701.D		6
58	58	1	M2018-3354-1-B	-	1.0000	058F5801.D		6
59	59	1	M2018-3358-1-A	-	1.0000	059F5901.D		6
60	60	1	M2018-3358-1-B	-	1.0000	060F6001.D		6
61	61	1	M2018-3364-1-A	-	1.0000	061F6101.D		6
62	62	1	M2018-3364-1-B	-	1.0000	062F6201.D		6
63	63	1	M2018-3367-1-A	-	1.0000	063F6301.D		6
64	64	1	M2018-3367-1-B	-	1.0000	064F6401.D		6
65	65	1	P2018-1838-1-A	-	1.0000	065F6501.D		3
66	66	1	P2018-1838-1-B	-	1.0000	066F6601.D		3
67	67	1	QC2-2-A	-	1.0000	067F6701.D		4
68	68	1	QC2-2-B	-	1.0000	068F6801.D		4
69	69	1	INTERNAL STD BLK	-	1.0000	069F6901.D		2

Method file name: C:\Chem32\1\Data\06-27-18\_SAMPLES\07-10-18\_SAMPLES 2018-07-10 15-55-33  
 \SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
70	70	1	EMPTY	-	1.0000	070F7001.D		0

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