Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: MD-96BC1382/MD94AM10010

Volatiles Quality Assurance Controls **Run Date(s): 06/15/2017-06/16/2017**

Calibration Date: 6/15/2017

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702 - 0.0858	0.0764 g/100cc
					0.0769 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818 - 0.2222	0.1989 g/100cc
					0.1990 g/100cc
Multi-Component Mixture		**Exp: Oct 2019**	**Lot #**	FN09231404	OK
Curve Fit:			**Column 1**	0.99998 **Column 2**	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	0.0504	0.0518	0.0014	0.0511
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.0985	0.0983	0.0002	0.0984
0.200	Oct-20	FN07201502	0.200	0.180 - 0.220	0.2006	0.1988	0.0018	0.1997
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.3013	0.3011	0.0002	0.3012
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.4993	0.5000	0.0007	0.4996

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.079 g/100cc

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

Issued: 4/22/2015

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

Worklist: 1765

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-2261	2	87243	Alcohol Analysis
M2017-2574	1	86481	Alcohol Analysis
M2017-2575	1	86482	Alcohol Analysis
M2017-2591	1	86509	Alcohol Analysis
M2017-2592	1	86513	Alcohol Analysis
M2017-2593	1	86514	Alcohol Analysis
M2017-2595	1	86519	Alcohol Analysis
M2017-2606	1	86575	Alcohol Analysis
M2017-2607	1	86576	Alcohol Analysis
M2017-2615	1	86655	Alcohol Analysis
M2017-2619	1	86678	Alcohol Analysis
M2017-2620	1	86691	Alcohol Analysis
M2017-2621	1	86695	Alcohol Analysis
M2017-2622	1	86699	Alcohol Analysis
M2017-2623	1	86713	Alcohol Analysis
M2017-2631	1	86755	Alcohol Analysis
M2017-2634	1	86786	Alcohol Analysis
M2017-2660	1	86901	Alcohol Analysis
M2017-2661	1	87009	Alcohol Analysis
M2017-2661	2	87007	Alcohol Analysis
M2017-2662	1	86920	Alcohol Analysis
M2017-2663	1	86921	Alcohol Analysis

JC

Calibration Table

General Calibration Setting

Calib. Data Modified : Thursday, June 15, 2017 4:25:59 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

SG

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
3.072	1	1	5.00000e-2	4.28575	1.16666e-2	No	No	1	ethanol
		2	1.00000e-1	8.70548	1.14870e-2				
		3	2.00000e-1	17.61587	1.13534e-2				
		4	3.00000e-1	26.45733	1.13390e-2				
		5	5.00000e-1	44.16578	1.13210e-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
4.281	2	1	5.00000e-2	4.20957	1.18777e-2	No	No	2	ethanol
		2	1.00000e-1	8.64882	1.15623e-2				
		3	2.00000e-1	17.70766	1.12945e-2				
		4	3.00000e-1	27.02935	1.10990e-2				
		5	5.00000e-1	45.72552	1.09348e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.618	1	1	1.00000	38.57098	2.59262e-2	No	Yes	1	n-propanol
		2	1.00000	40.01025	2.49936e-2				
		3	1.00000	39.70012	2.51888e-2				
		4	1.00000	39.67738	2.52033e-2				
		5	1.00000	39.95247	2.50297e-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	37.72078	2.65106e-2	No	Yes	2	n-propanol
		2	1.00000	39.07944	2.55889e-2				
		3	1.00000	38.59301	2.59114e-2				
		4	1.00000	38.58989	2.59135e-2				
		5	1.00000	39.07180	2.55939e-2				

Peak Sum Table

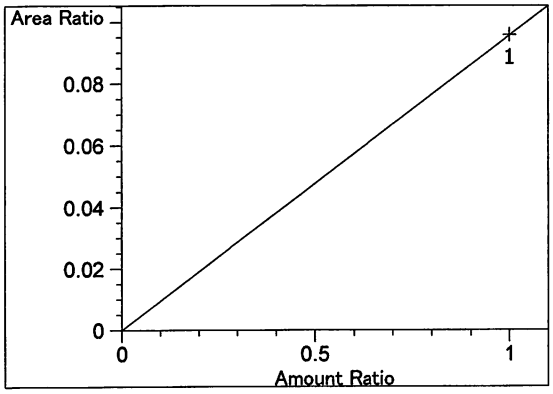
No Entries in table

41 Warnings or Errors (10 first messages follow) :

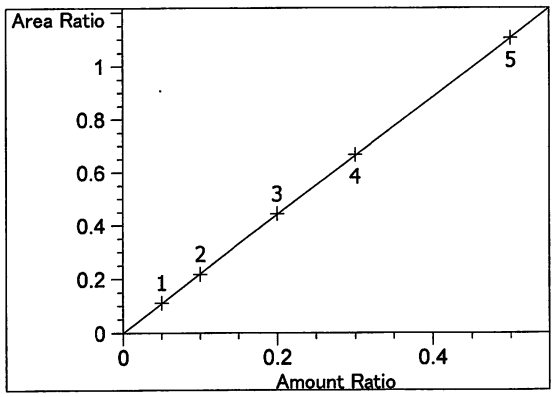
Warning : Curve requires more calibration points., (methanol)
Warning : Curve requires more calibration points. at 2.586 min, signal 1
Warning : Curve requires more calibration points. at 3.388 min, signal 2
Warning : Curve requires more calibration points. at 3.628 min, signal 1
Warning : Curve requires more calibration points. at 4.308 min, signal 1
Warning : Curve requires more calibration points. at 4.618 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
Warning : Curve requires more calibration points. at 7.55 min, signal 2
Warning : Curve requires more calibration points. at 2.586 min, signal 1

JG

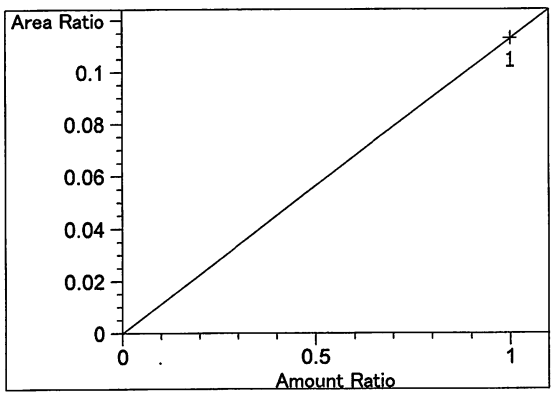
Calibration Curves



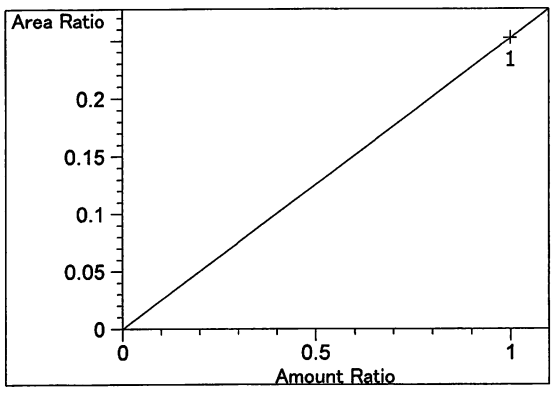
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.58413e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



ethanol at exp. RT: 3.072
FID1 A, Front Signal
Correlation: 0.99998
Residual Std. Dev.: 0.00284
Formula: y = mx + b
m: 2.21526
b: -5.71555e-4
x: Amount Ratio
y: Area Ratio

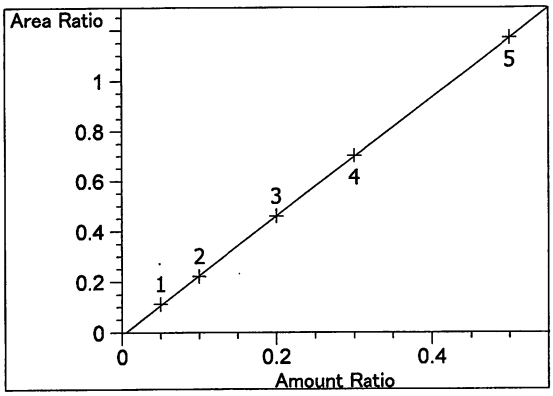


methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.12952e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

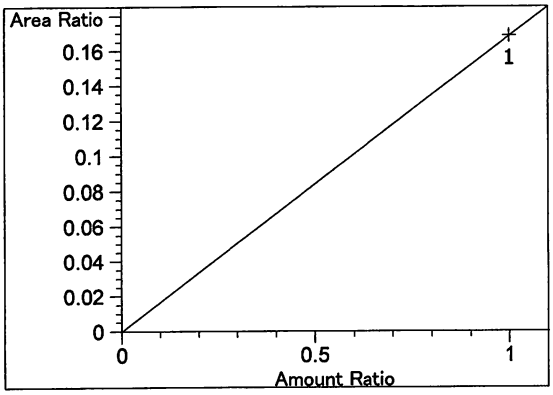


isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.52276e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

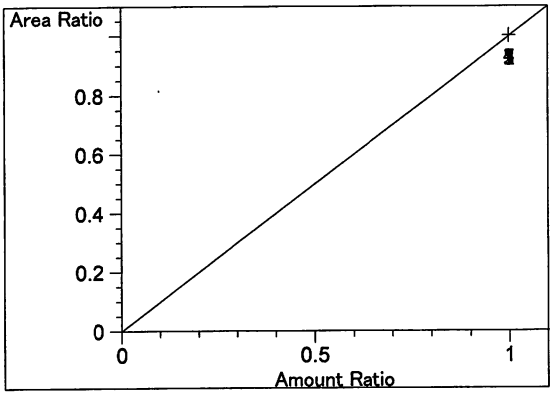
JG



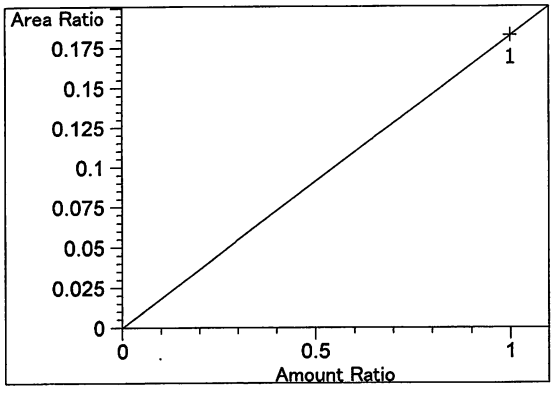
ethanol at exp. RT: 4.281
FID2 B, Back Signal
Correlation: 0.99997
Residual Std. Dev.: 0.00407
Formula: y = mx + b
m: 2.36239
b: -1.08572e-2
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.68505e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

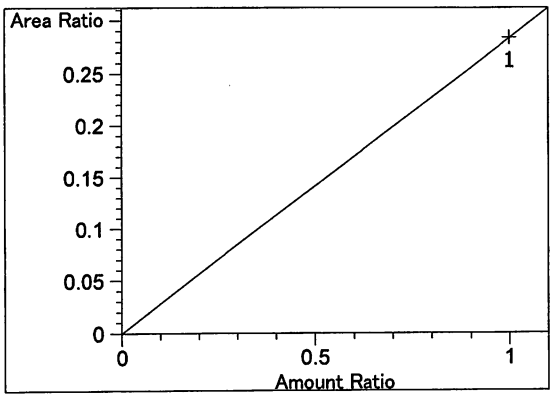


n-propanol at exp. RT: 4.618
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

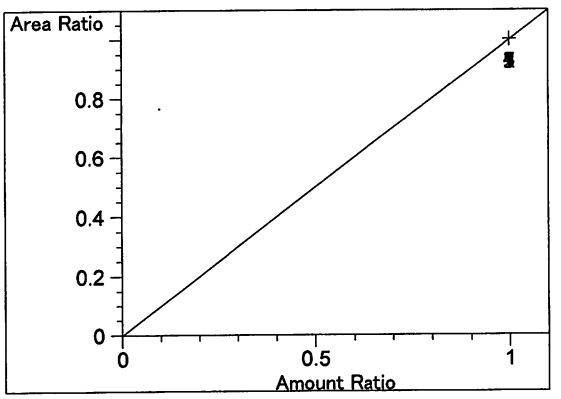


acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.82738e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

JG



isopropyl alcohol at exp. RT: 4.969
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.83833e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



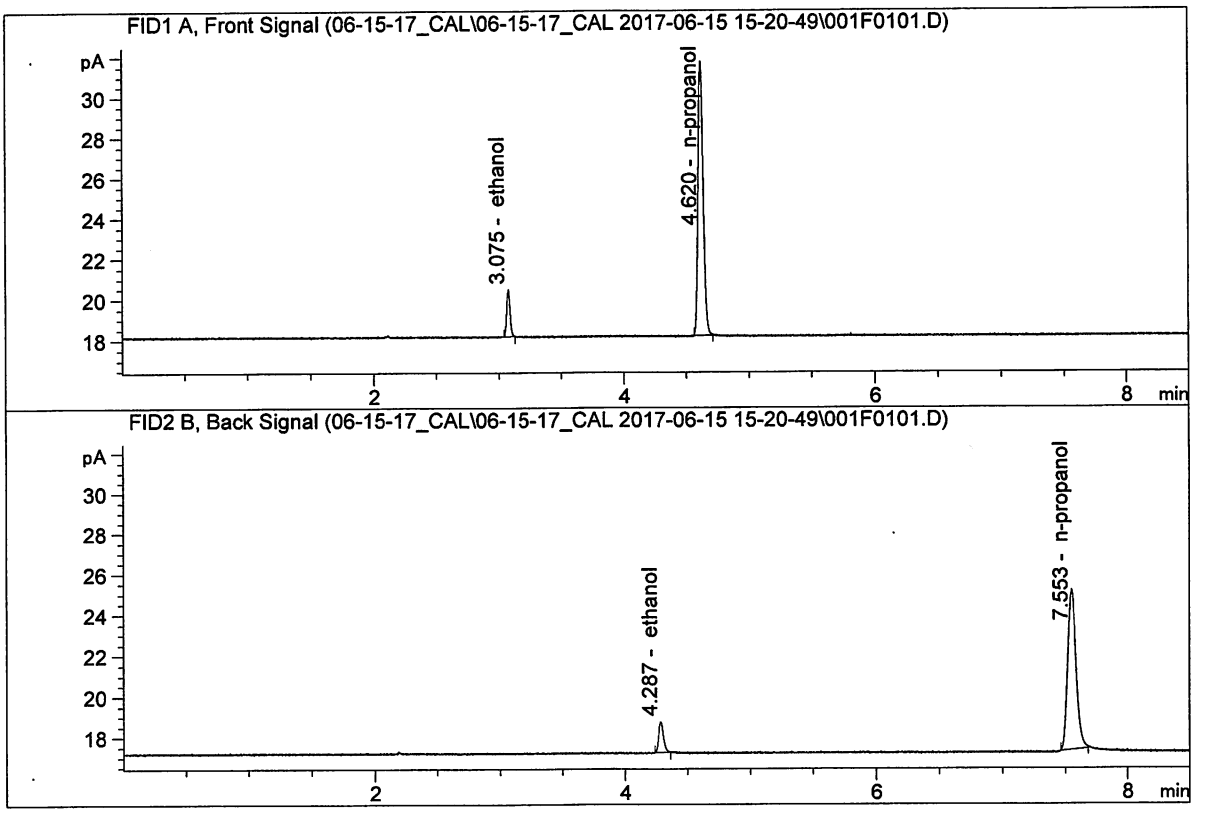
n-propanol at exp. RT: 7.550
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.00000
b: 0.00000
x: Amount Ratio
y: Area Ratio

==========

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN06231406
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

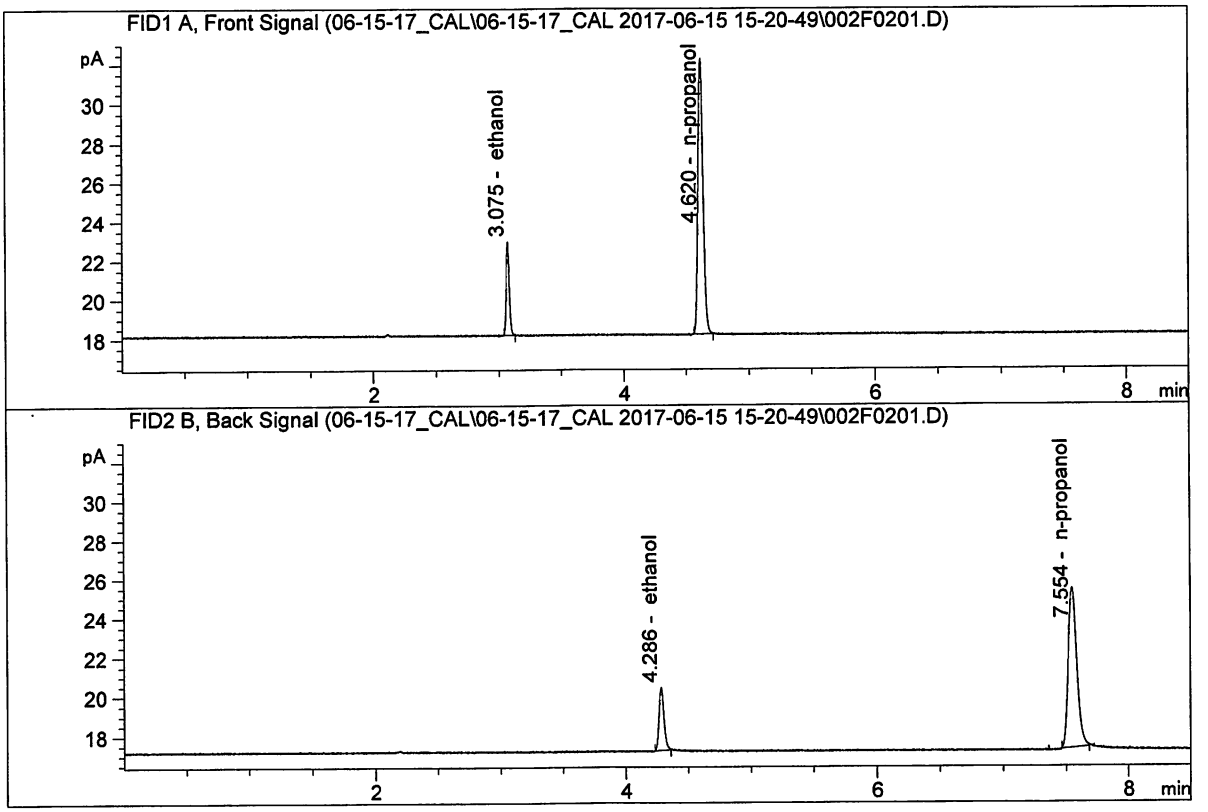


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.28575	0.0504	g/100cc
2.	Ethanol	Column 2:	4.20957	0.0518	g/100cc
3.	n-Propanol	Column 1:	38.57098	1.0000	g/100cc
4.	n-Propanol	Column 2:	37.72078	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN06181501
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

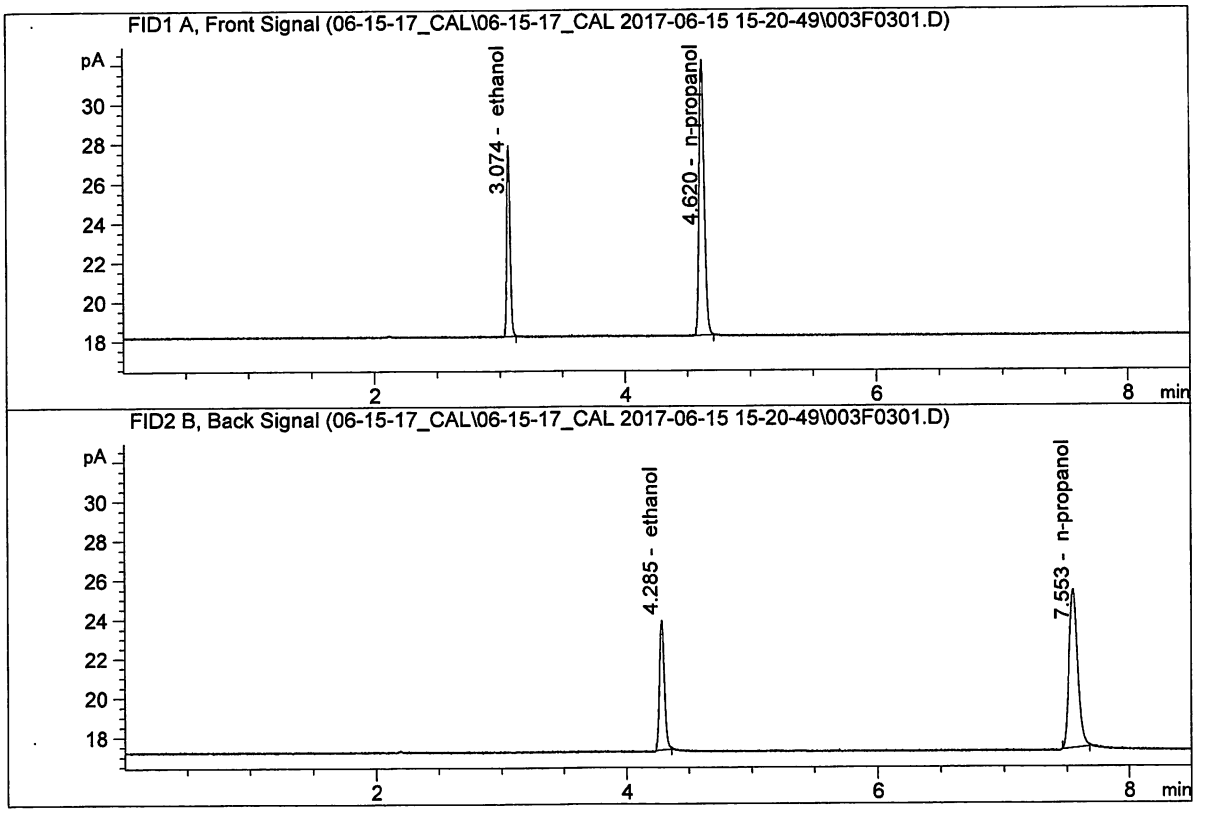


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.70548	0.0985	g/100cc
2.	Ethanol	Column 2:	8.64882	0.0983	g/100cc
3.	n-Propanol	Column 1:	40.01025	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.07944	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN07201502
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

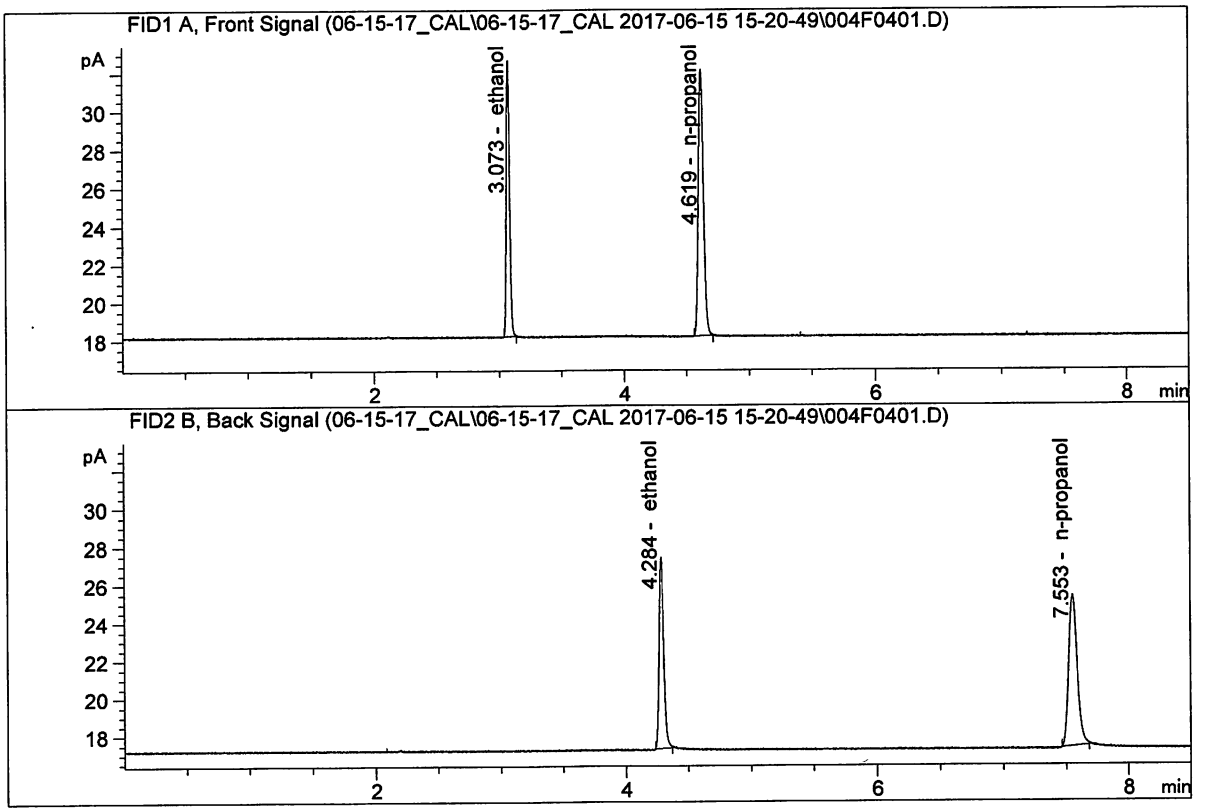


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.61587	0.2006	g/100cc
2.	Ethanol	Column 2:	17.70766	0.1988	g/100cc
3.	n-Propanol	Column 1:	39.70012	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.59301	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN02121601
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

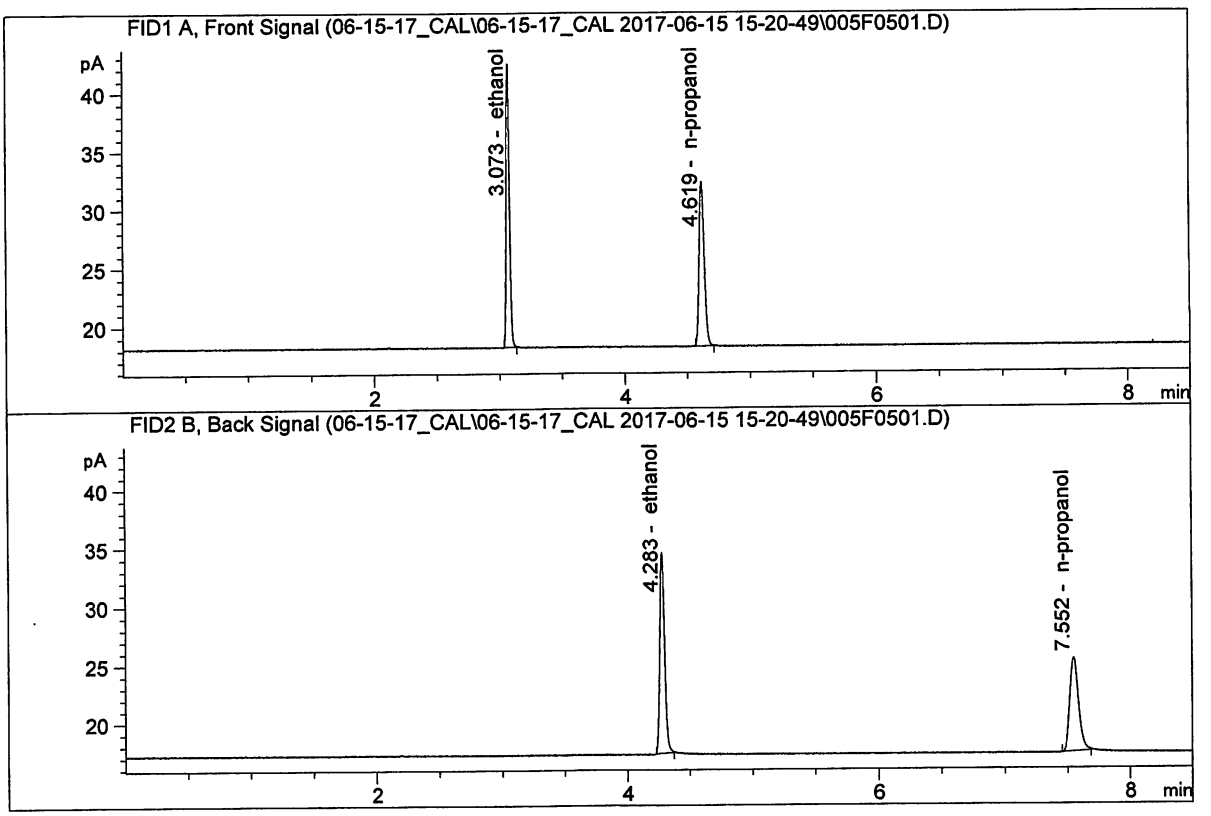


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.45733	0.3013	g/100cc
2.	Ethanol	Column 2:	27.02935	0.3011	g/100cc
3.	n-Propanol	Column 1:	39.67738	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.58989	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN07031402
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

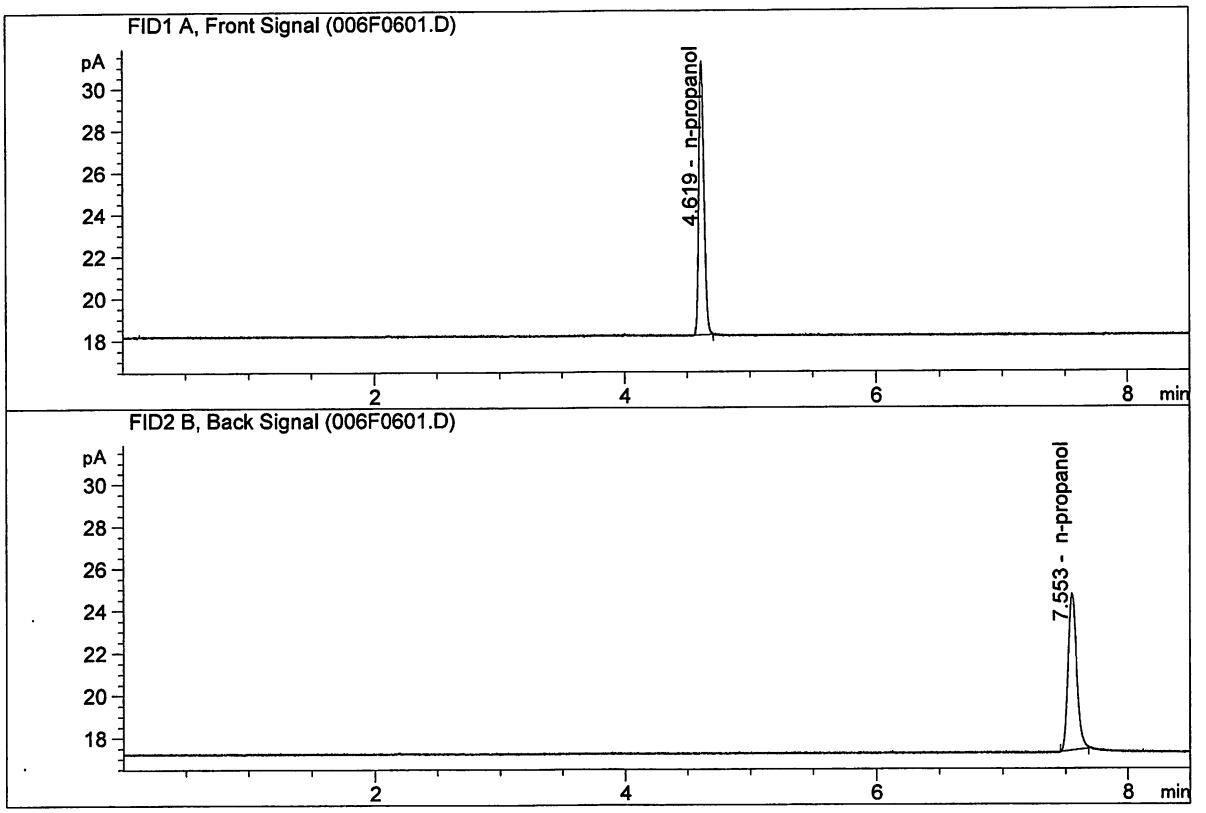


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	44.16578	0.4993	g/100cc
2.	Ethanol	Column 2:	45.72552	0.5000	g/100cc
3.	n-Propanol	Column 1:	39.95247	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.07180	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Jun 15, 2017
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:	36.87632	1.0000	g/100cc
4.	n-Propanol	Column 2:	35.87985	1.0000	g/100cc

JG

Sequence File C:\Chem32\1\Data\06-15-17_CAL\06-15-17_CAL 2017-06-15 15-20-49\06-15-17_CAL.S

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

Sequence table: C:\Chem32\1\Data\06-15-17_CAL\06-15-17_CAL 2017-06-15 15-20-49\06-15-17_CAL.S
Data directory path: C:\Chem32\1\Data\06-15-17_CAL\06-15-17_CAL 2017-06-15 15-20-49\
Logbook: C:\Chem32\1\Data\06-15-17_CAL\06-15-17_CAL 2017-06-15 15-20-49\06-15-17_CAL.LOG
Sequence start: 6/15/2017 3:35:25 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

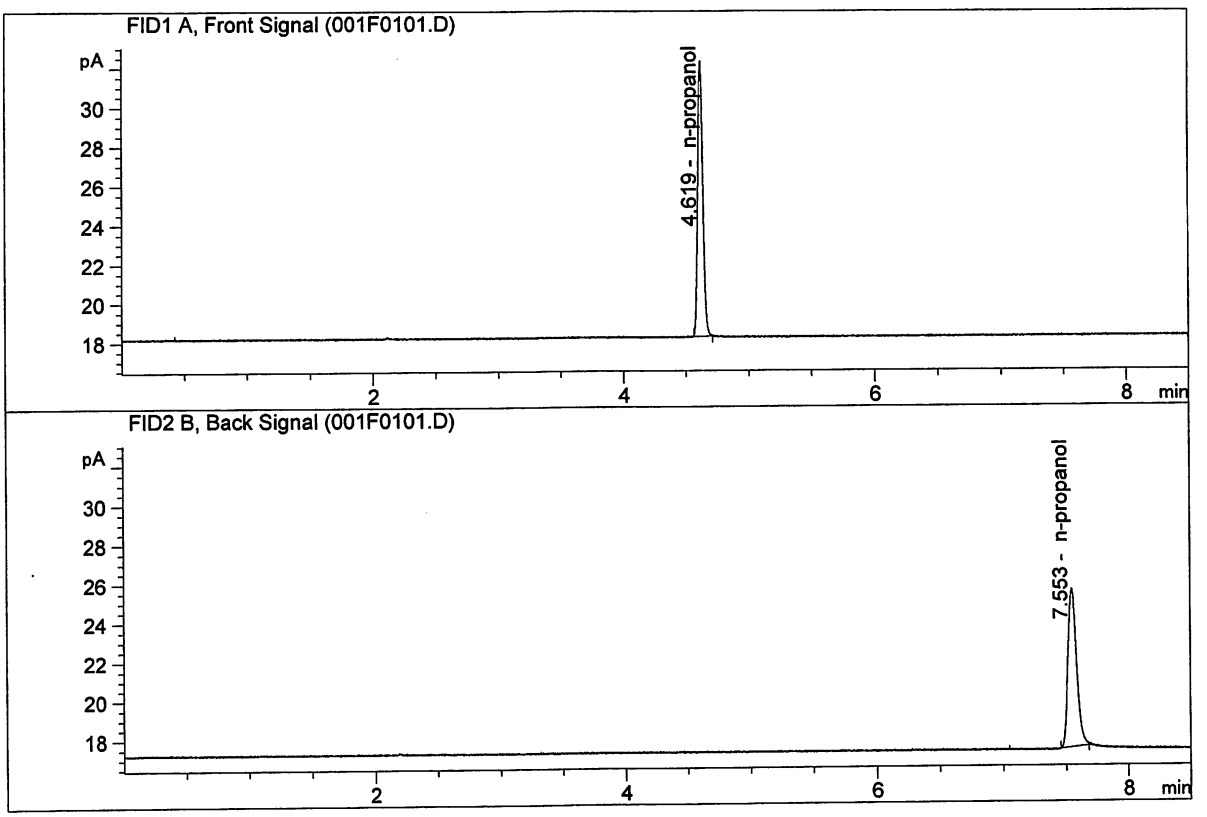
Method file name: C:\Chem32\1\Data\06-15-17_CAL\06-15-17_CAL 2017-06-15 15-20-49\ALCOHOL.M

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 FN06181501	-	1.0000	002F0201.D	*	4
3	3	1	0.200 FN07201502	-	1.0000	003F0301.D	*	4
4	4	1	0.300 FN02121601	-	1.0000	004F0401.D	*	4
5	5	1	0.500 FN07031402	-	1.0000	005F0501.D	*	4
6	6	1	INTERNAL STANDAR	-	1.0000	006F0601.D		2

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

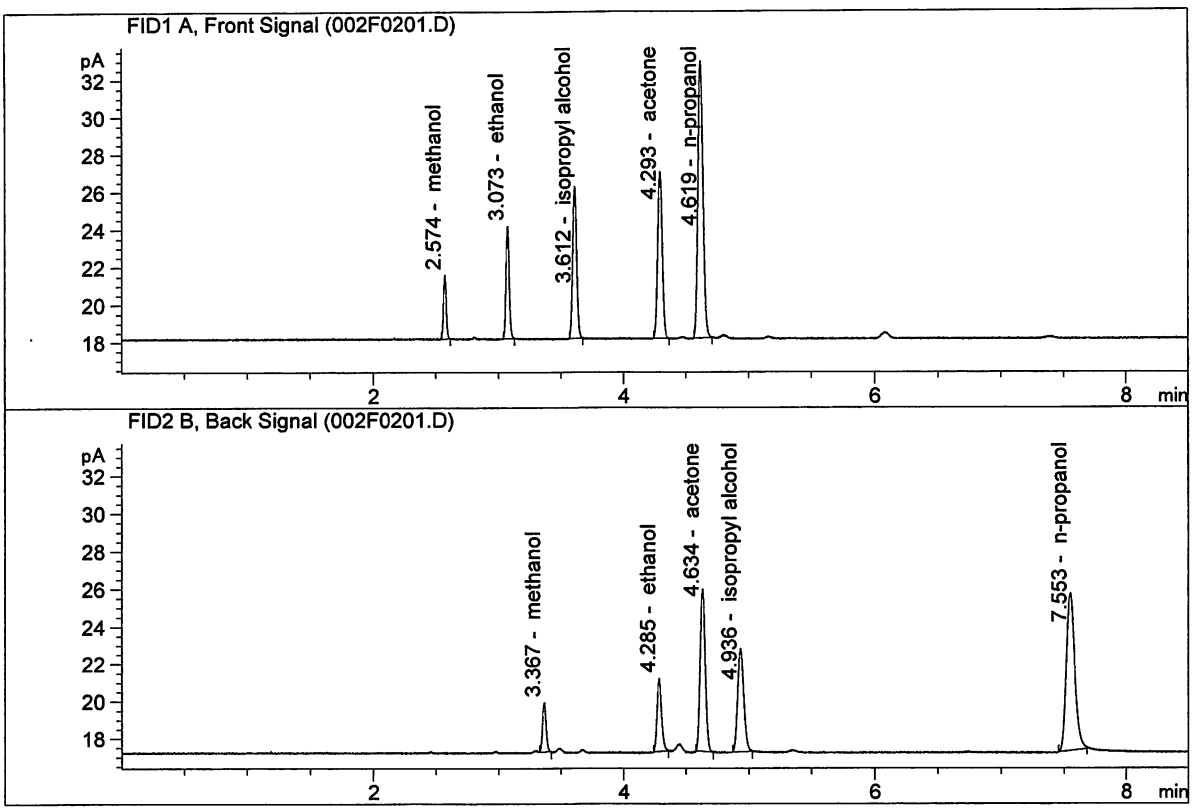


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	39.99820	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.29358	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	10.61205	0.1160	g/100cc
2.	Ethanol	Column 2:	10.47899	0.1139	g/100cc
3.	n-Propanol	Column 1:	41.39648	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.57544	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 15 Jun 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0761	0.0770	0.0009	0.0765	0.0764	
(g/100cc)	0.0757	0.0769	0.0012	0.0763		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number:
MD96BC1382/MD94AM10010

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	**0.072**	**0.080**	**0.004**

Reported Result

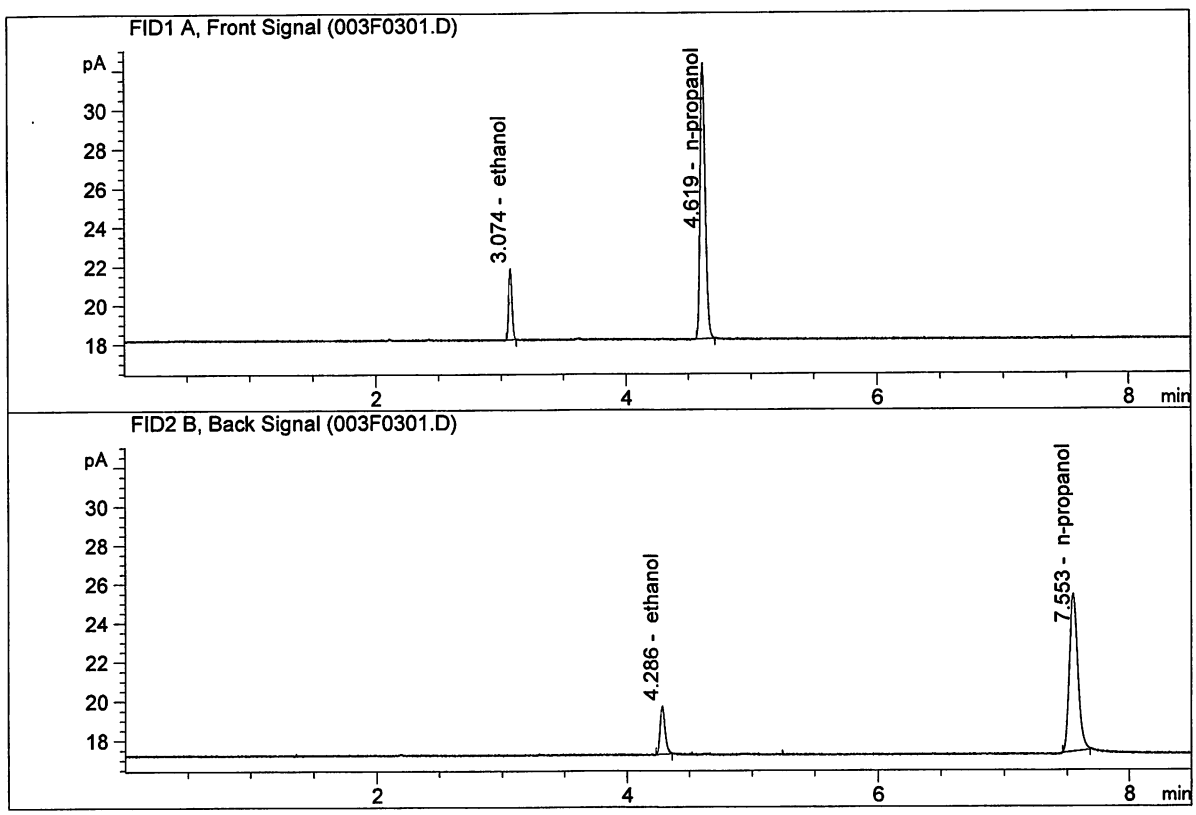
0.076

Calibration and control data are stored centrally.

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

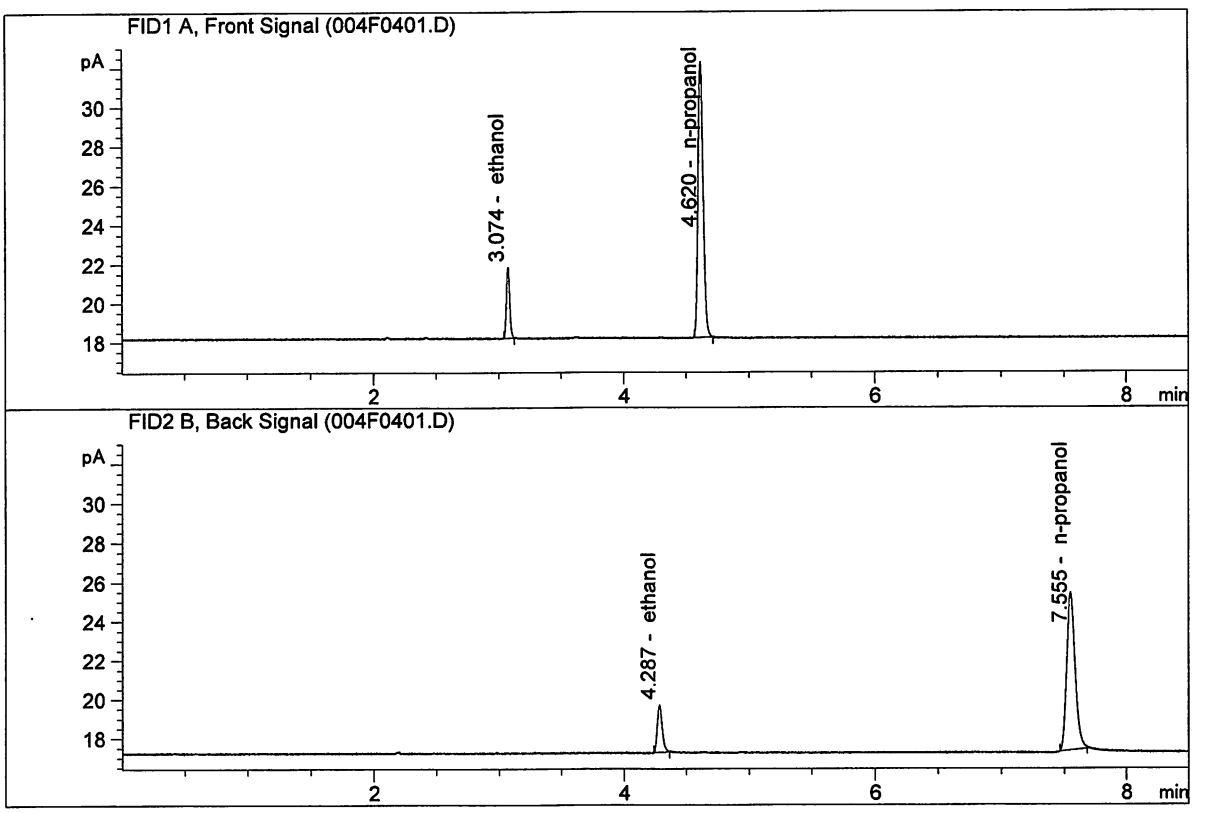


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.70666	0.0761	g/100cc
2.	Ethanol	Column 2:	6.64523	0.0770	g/100cc
3.	n-Propanol	Column 1:	39.93528	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.84583	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.69895	0.0757	g/100cc
2.	Ethanol	Column 2:	6.63012	0.0769	g/100cc
3.	n-Propanol	Column 1:	40.07193	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.82322	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 15 Jun 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0787	0.0797	0.0010	0.0792	0.0797	
(g/100cc)	0.0800	0.0804	0.0004	0.0802		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number:
MD96BC1382/MD94AM10010

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	**0.075**	**0.083**	**0.004**

Reported Result

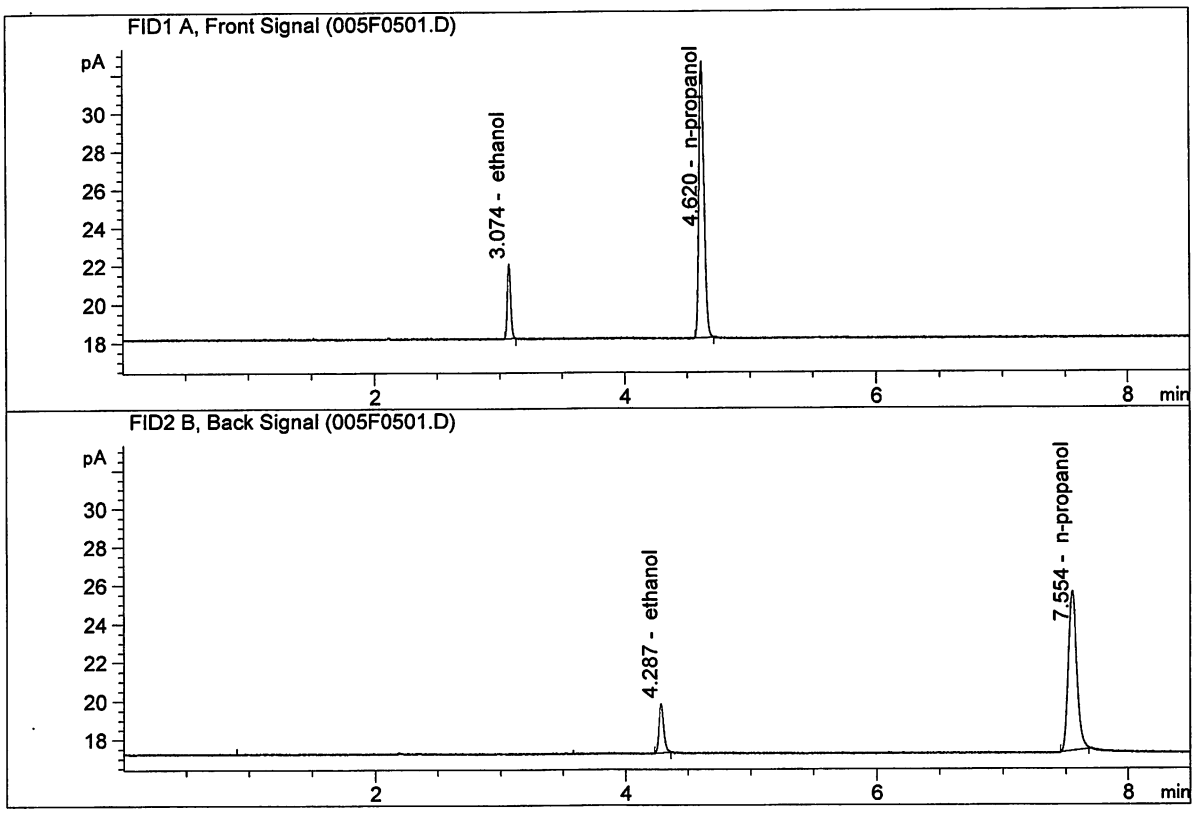
0.079

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

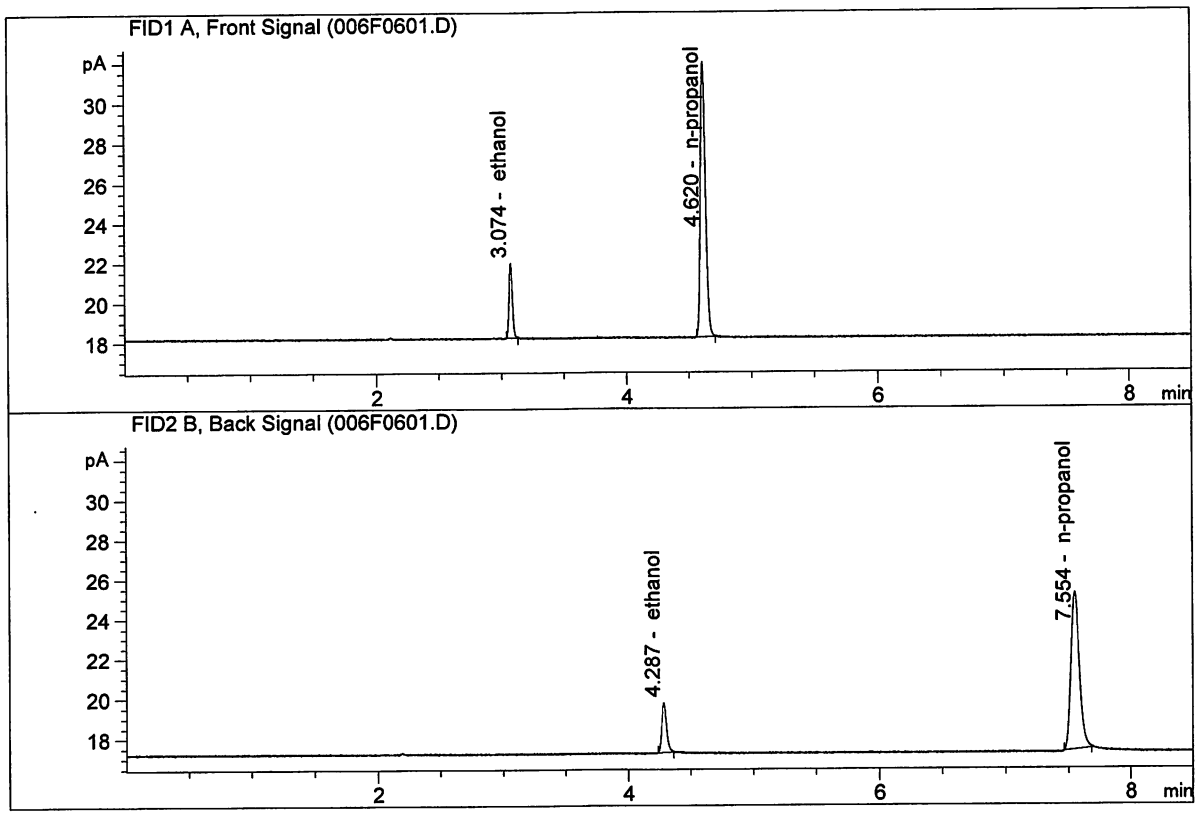


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.09687	0.0787	g/100cc
2.	Ethanol	Column 2:	7.07965	0.0797	g/100cc
3.	n-Propanol	Column 1:	40.85500	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.91700	1.0000	g/100cc

JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.91535	0.0800	g/100cc
2.	Ethanol	Column 2:	6.80949	0.0804	g/100cc
3.	n-Propanol	Column 1:	39.15322	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.00306	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 15 Jun 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1991	0.1978	0.0013	0.1984	0.1989	
(g/100cc)	0.2001	0.1988	0.0013	0.1994		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number:
MD96BC1382/MD94AM10010

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.198	**0.188**	**0.208**	**0.010**

Reported Result

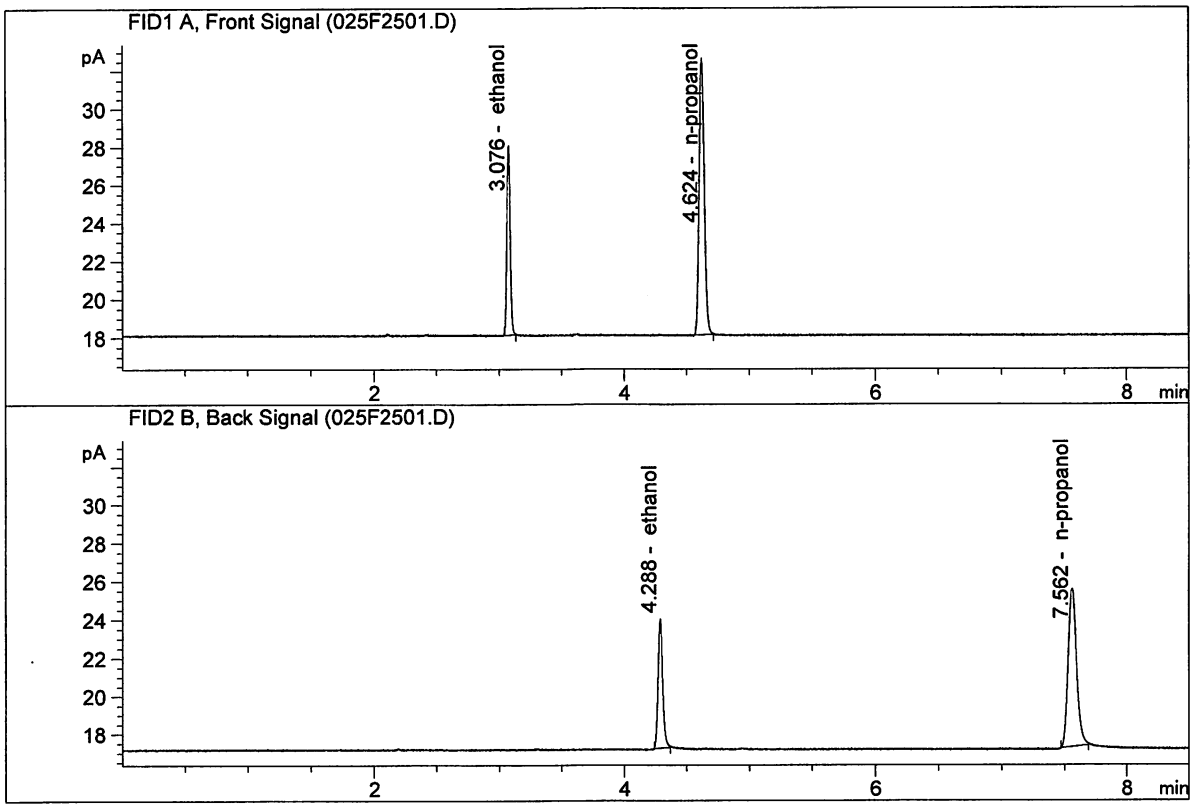
0.198

Calibration and control data are stored centrally.

SC

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

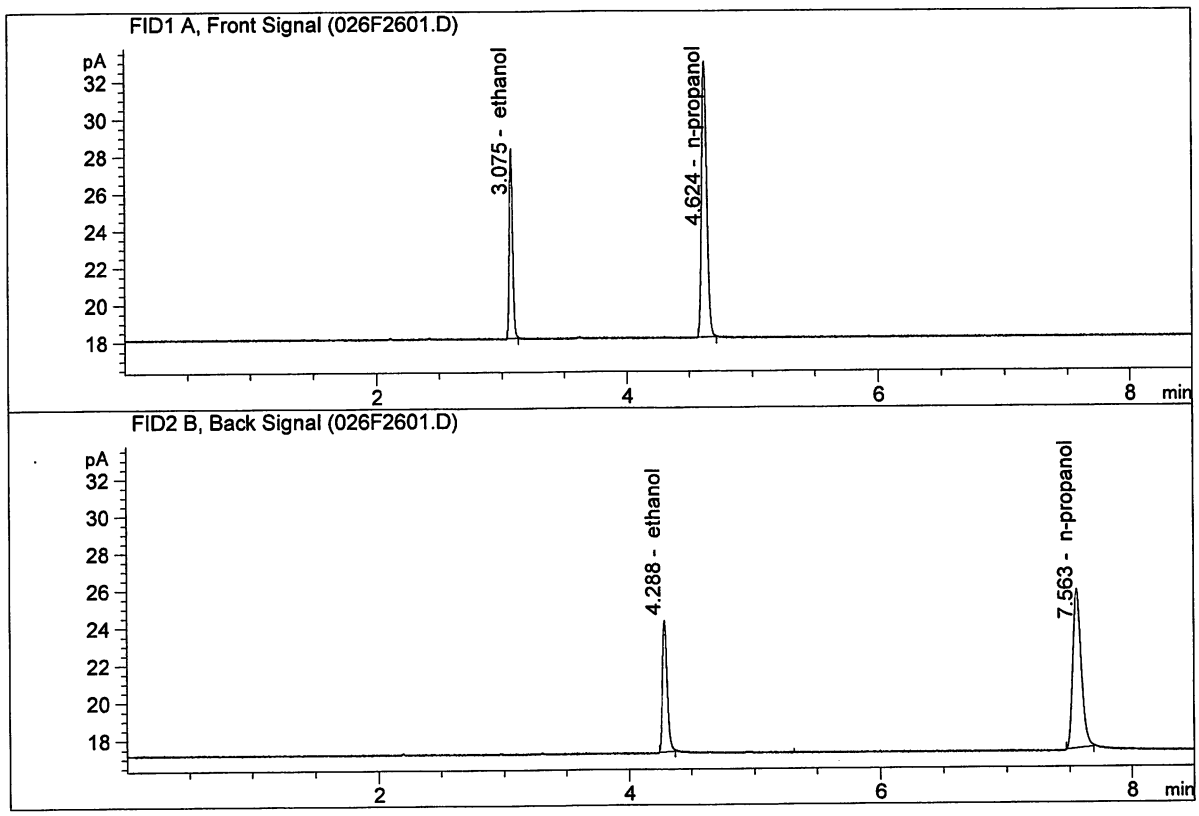


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.19912	0.1991	g/100cc
2.	Ethanol	Column 2:	18.30779	0.1978	g/100cc
3.	n-Propanol	Column 1:	41.32014	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.11189	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Jun 15, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.66696	0.2001	g/100cc
2.	Ethanol	Column 2:	18.80305	0.1988	g/100cc
3.	n-Propanol	Column 1:	42.17636	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.98421	1.0000	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 16 Jun 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0774	0.0782	0.0008	0.0778	0.0769	
(g/100cc)	0.0760	0.0761	0.0001	0.0760		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument method is stored centrally.

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number:
MD96BC1382/MD94AM10010

Reporting of Results

Uncertainty of Measurement (UM%): 5.00%

Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	**0.072**	**0.080**	**0.004**

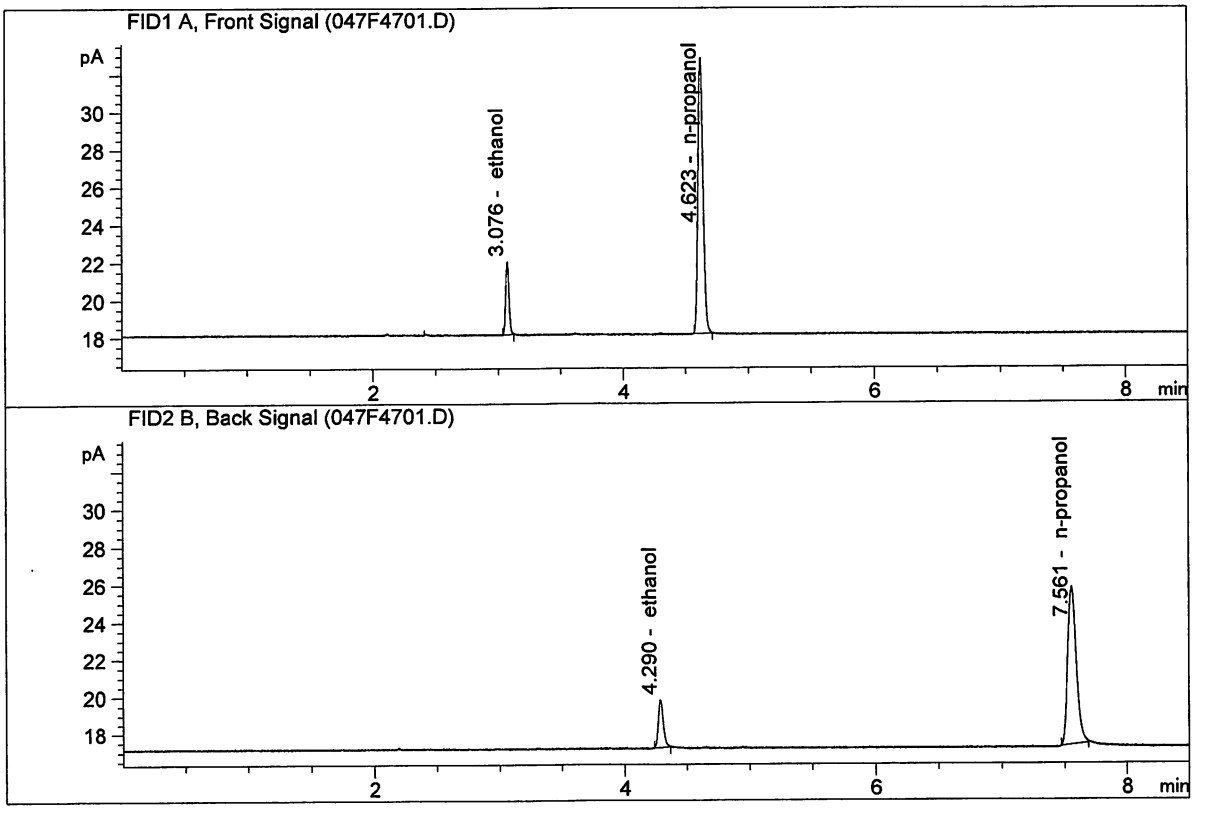
Reported Result
0.076

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

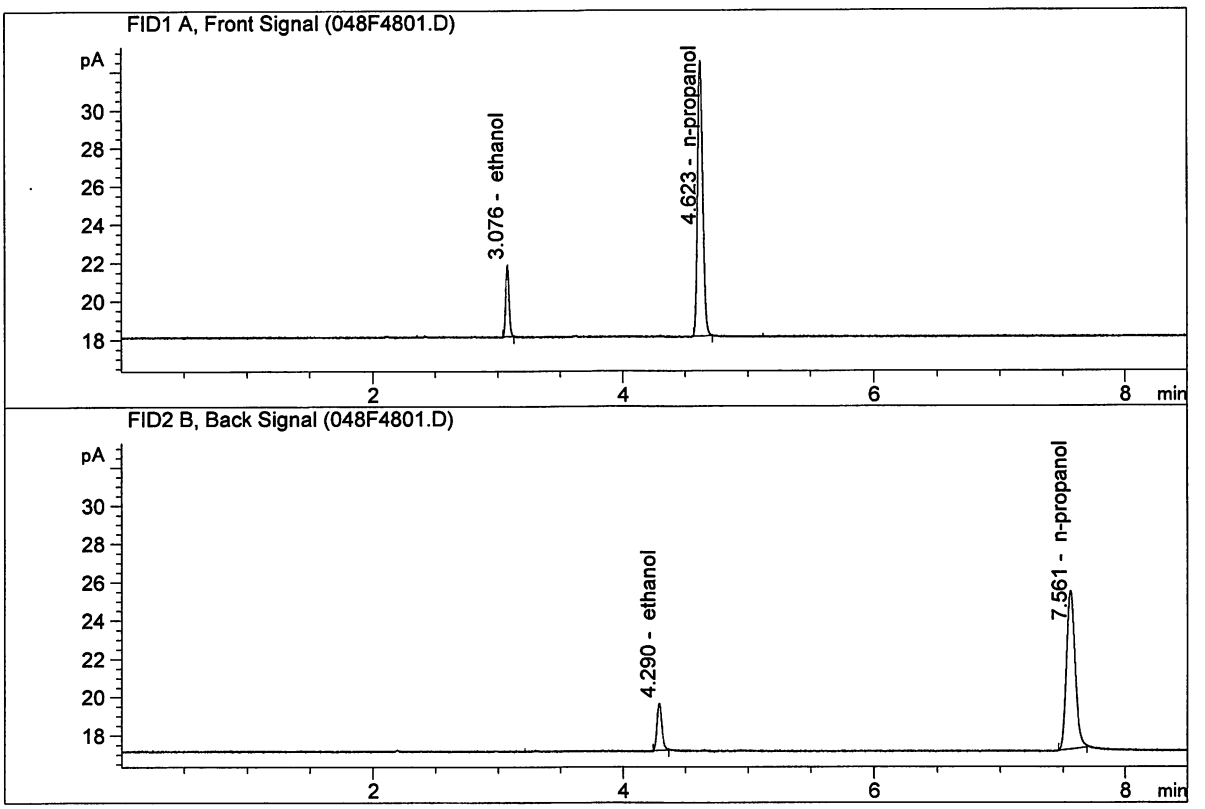


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.16274	0.0774	g/100cc
2.	Ethanol	Column 2:	7.07252	0.0782	g/100cc
3.	n-Propanol	Column 1:	41.92992	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.64972	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.87316	0.0760	g/100cc
2.	Ethanol	Column 2:	6.75495	0.0761	g/100cc
3.	n-Propanol	Column 1:	40.94595	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.96939	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 16 Jun 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2012	0.1992	0.0020	0.2002	0.1990	
(g/100cc)	0.1995	0.1962	0.0033	0.1978		

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

Refer to Instrument Method: ALCOHOL.M
Hamilton Auto-Dilutor Serial Number:
MD96BC1382/MD94AM10010

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

Overall Mean (g/100cc)	Low	High	5% of Mean
0.199	**0.189**	**0.209**	**0.010**

Reported Result

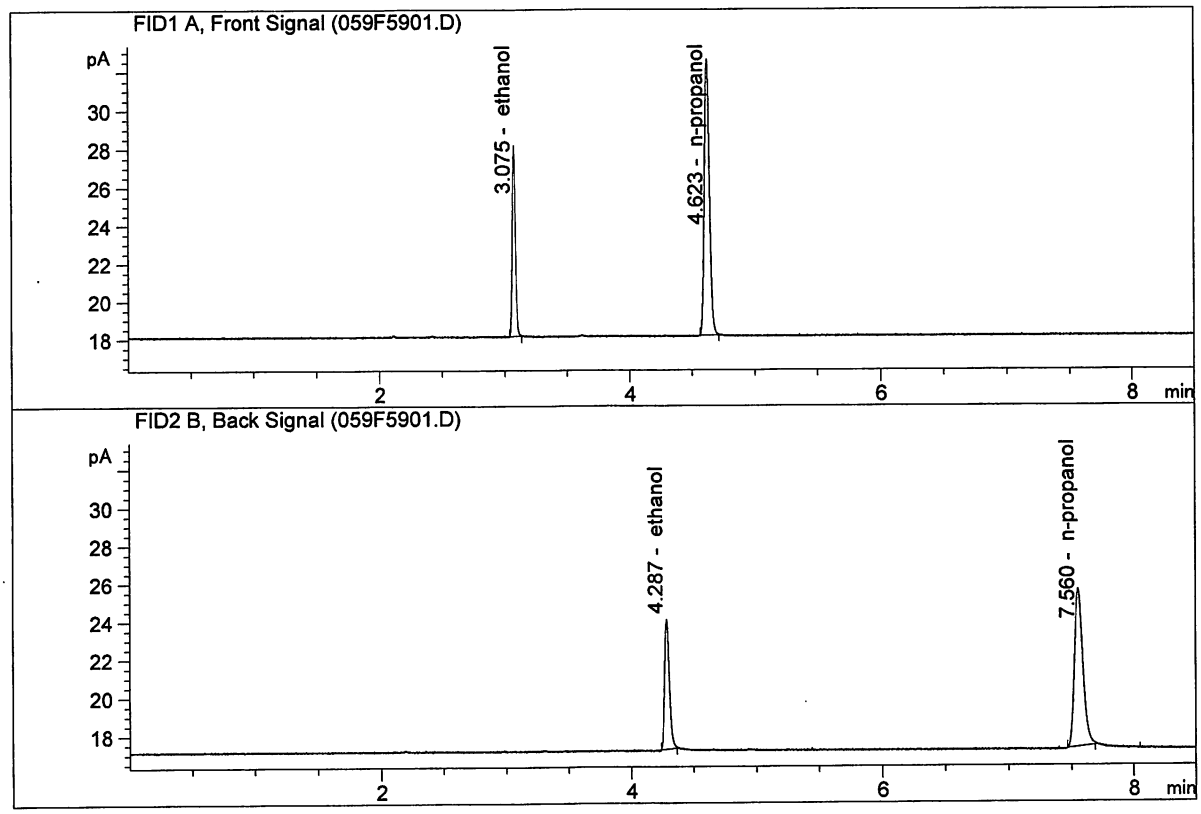
0.199

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

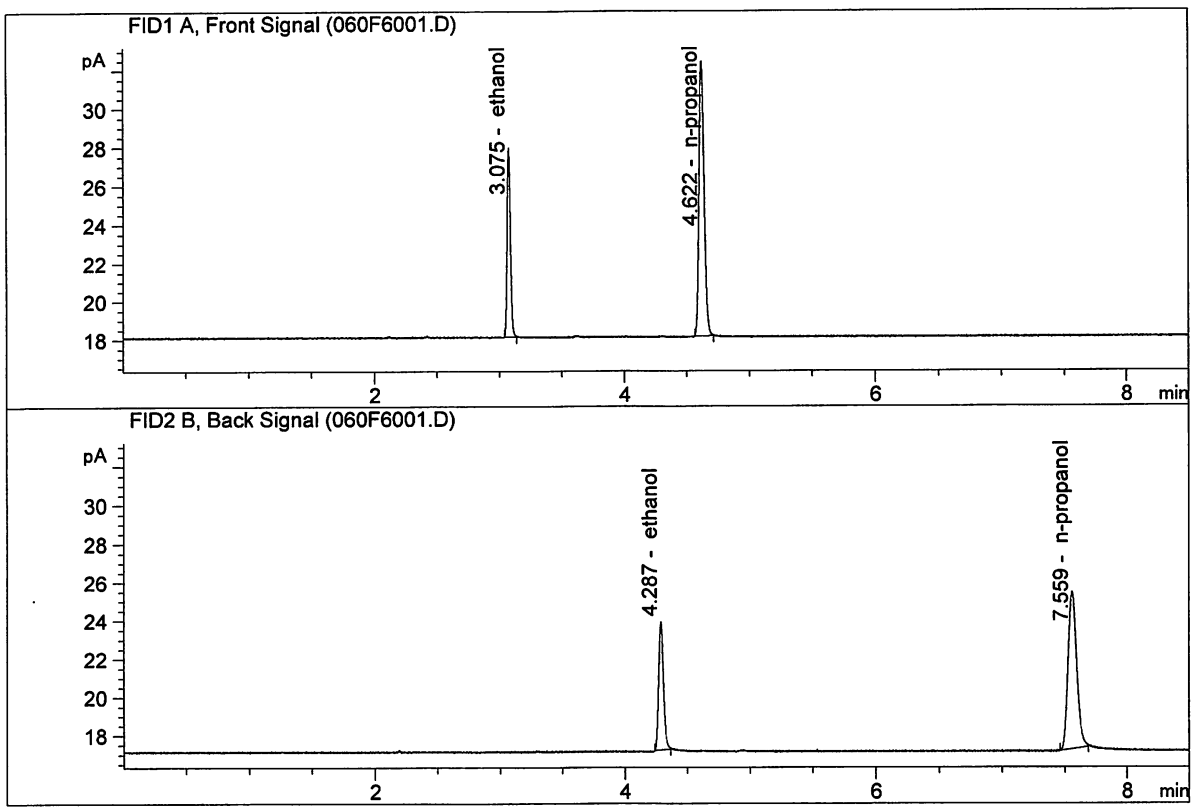


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.32840	0.2012	g/100cc
2.	Ethanol	Column 2:	18.37904	0.1992	g/100cc
3.	n-Propanol	Column 1:	41.18442	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.97330	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

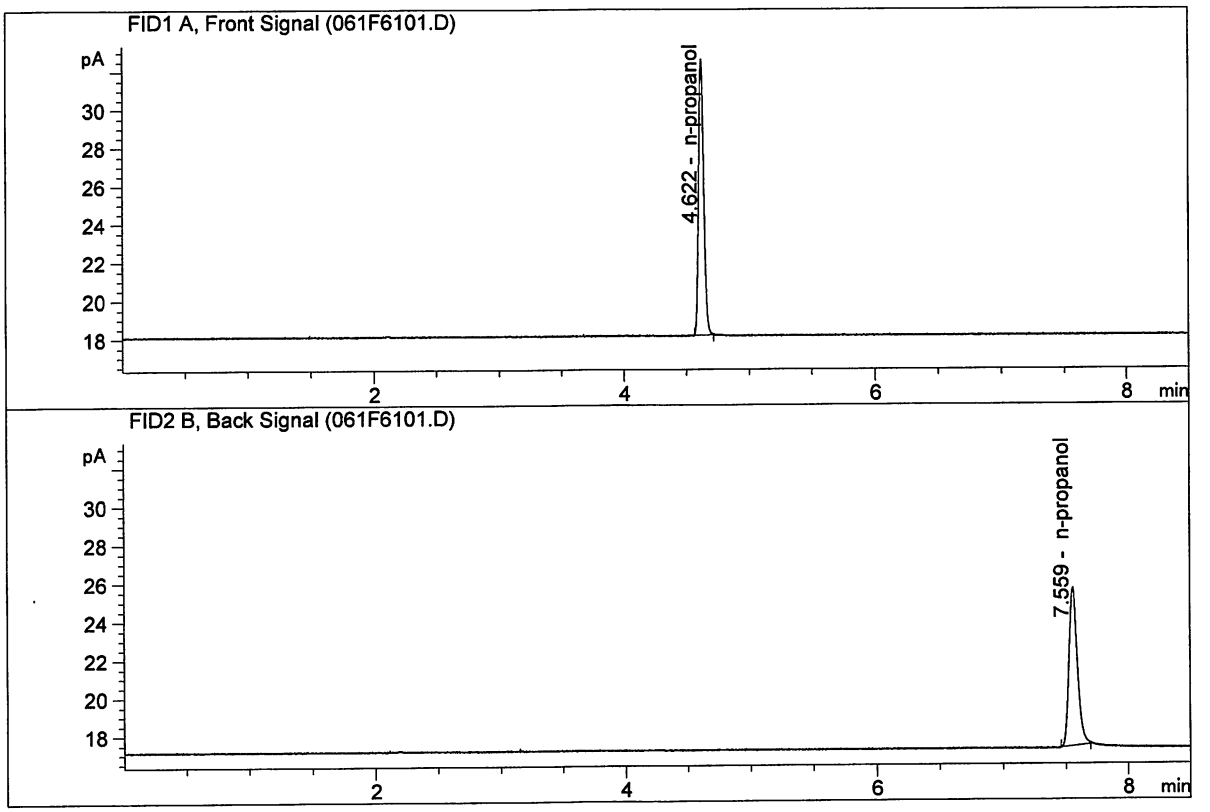


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.97630	0.1995	g/100cc
2.	Ethanol	Column 2:	17.98842	0.1962	g/100cc
3.	n-Propanol	Column 1:	40.73076	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.74989	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

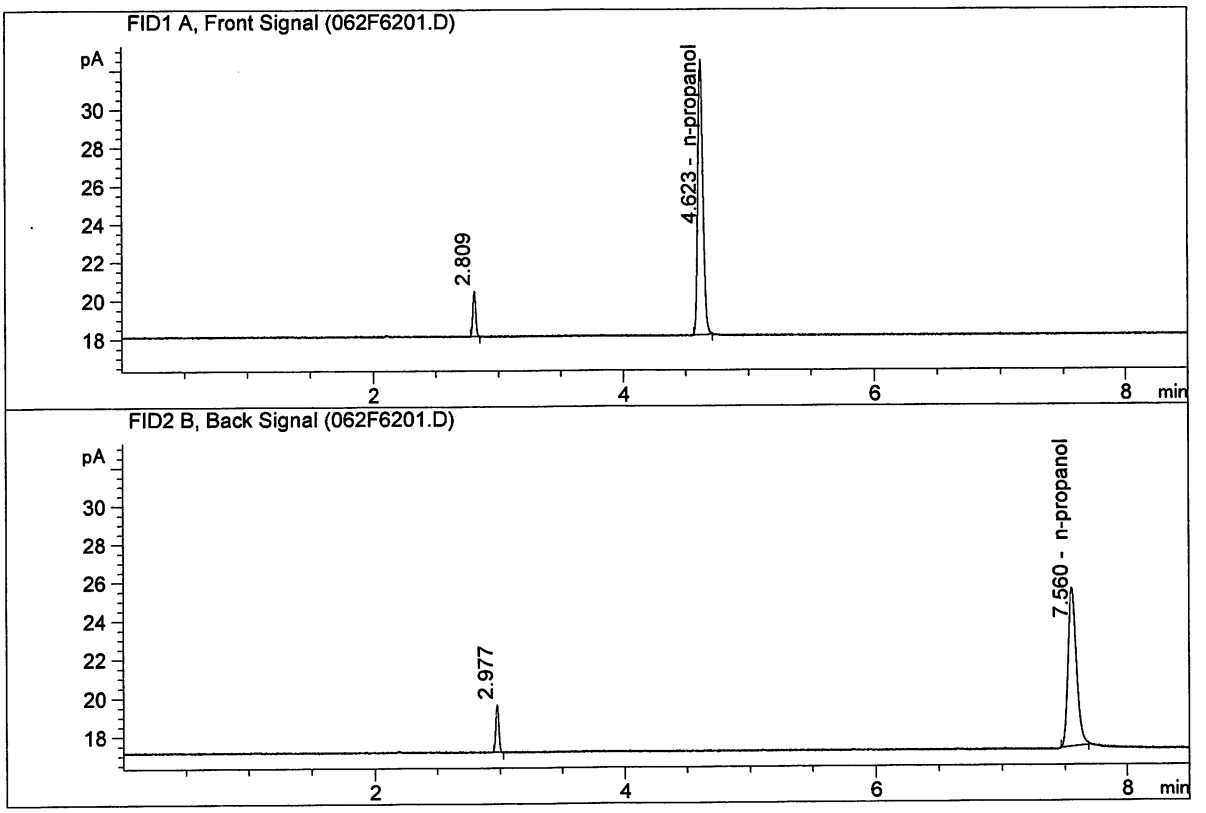


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	41.16177	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.40577	1.0000	g/100cc

JL

ISP Forensic Services Blood Alcohol Report

Sample Name : Acetaldehyde A014723701
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

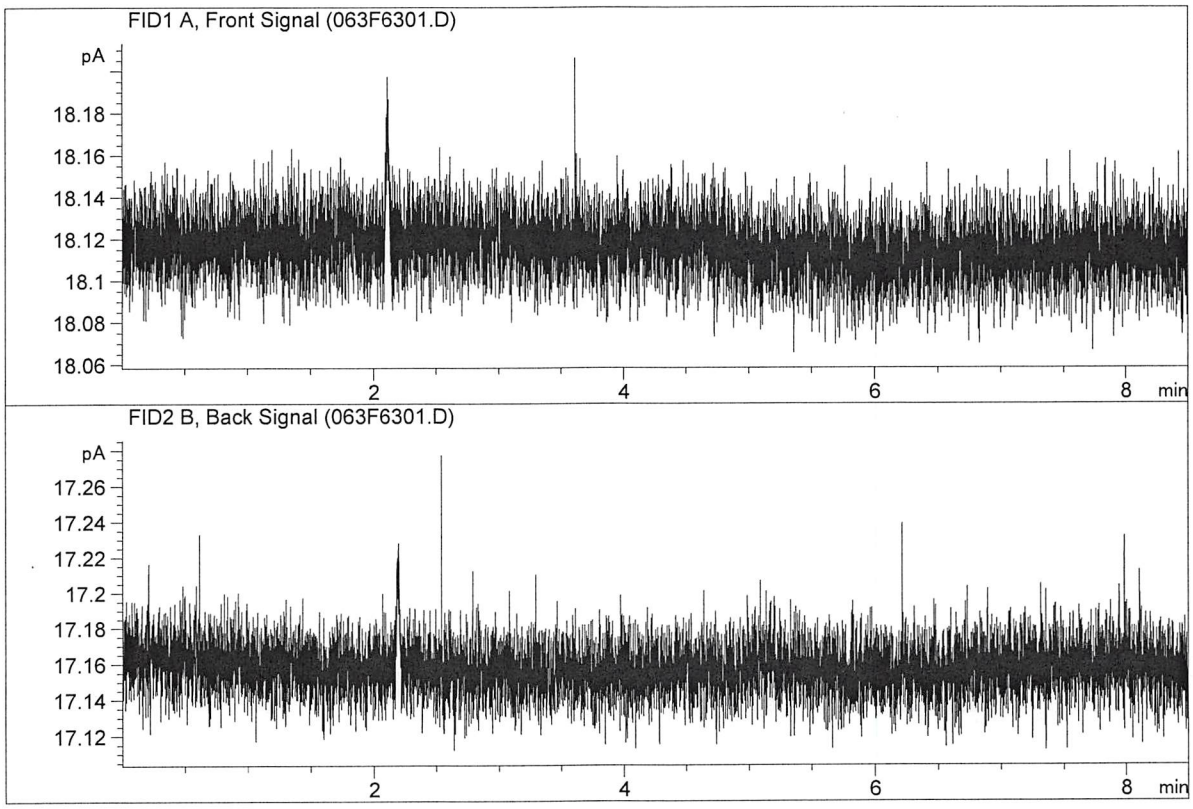


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	40.76014	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.67295	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



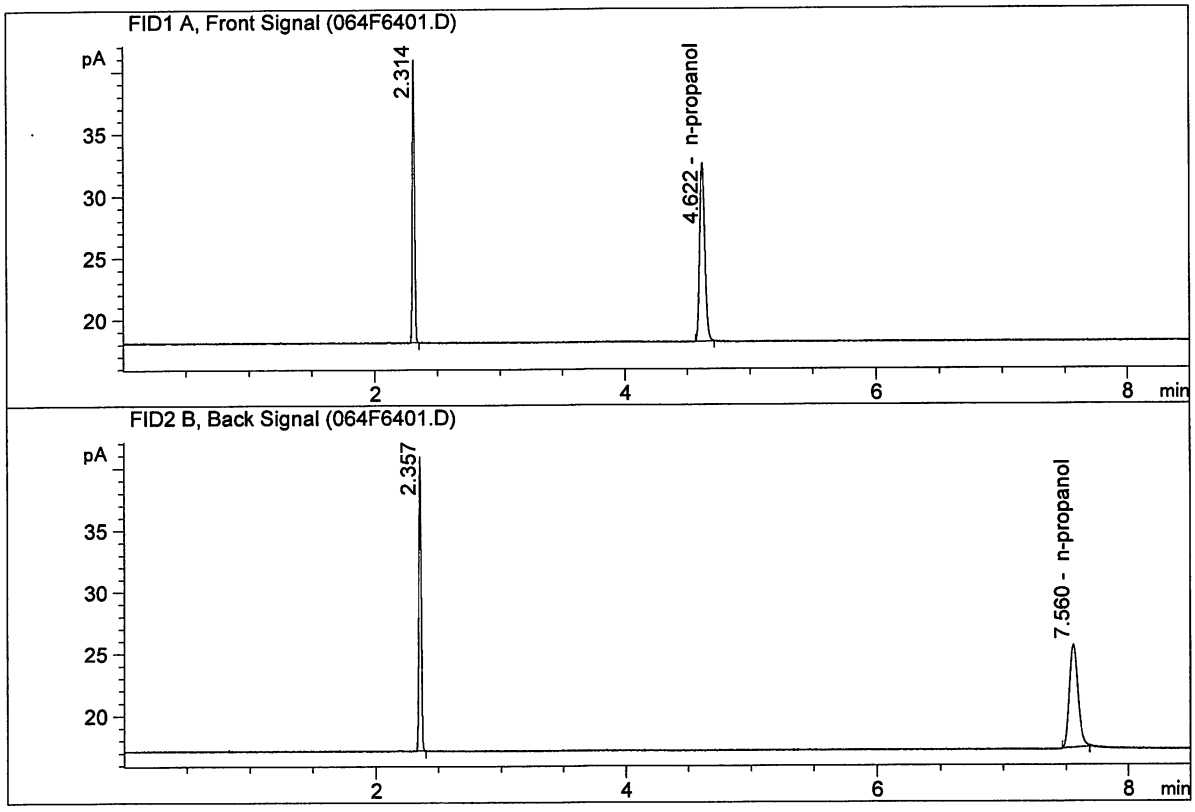
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc

Vial was empty.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : DFE 111914OM
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

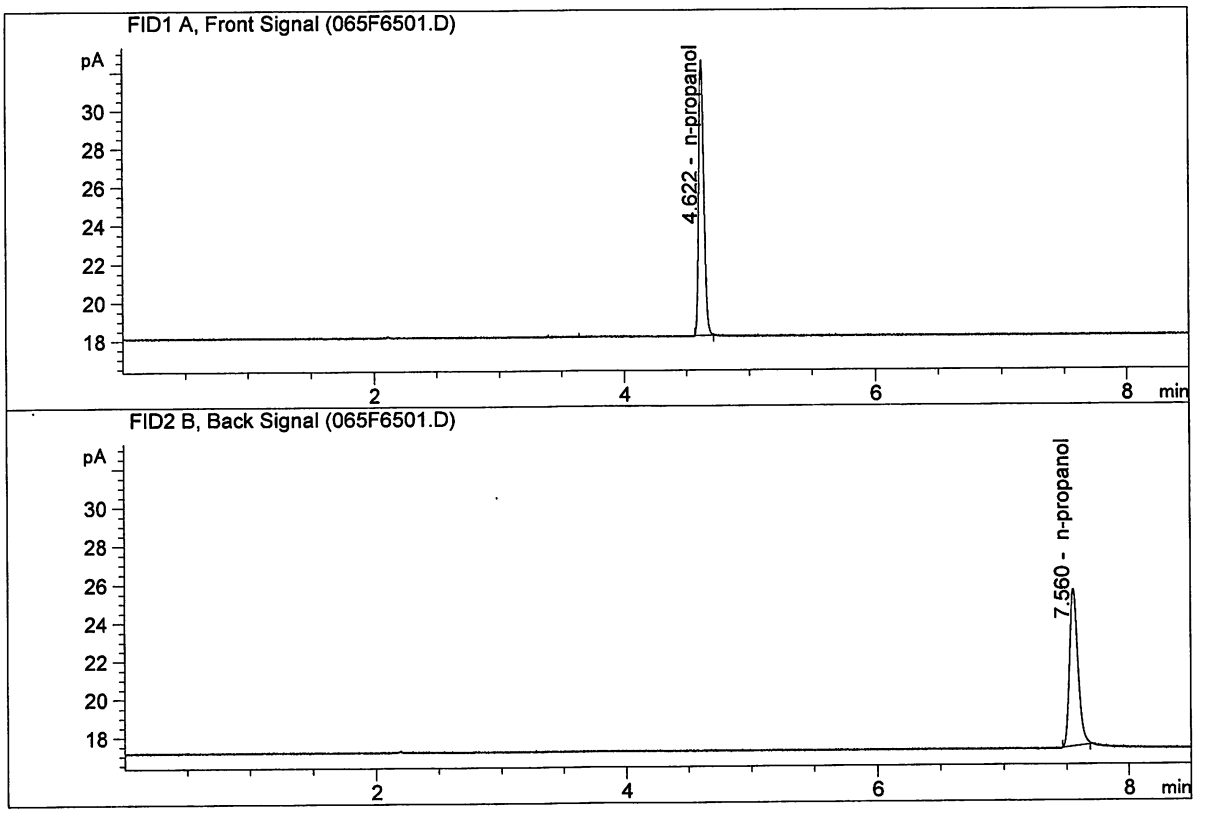


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	40.83683	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.92237	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

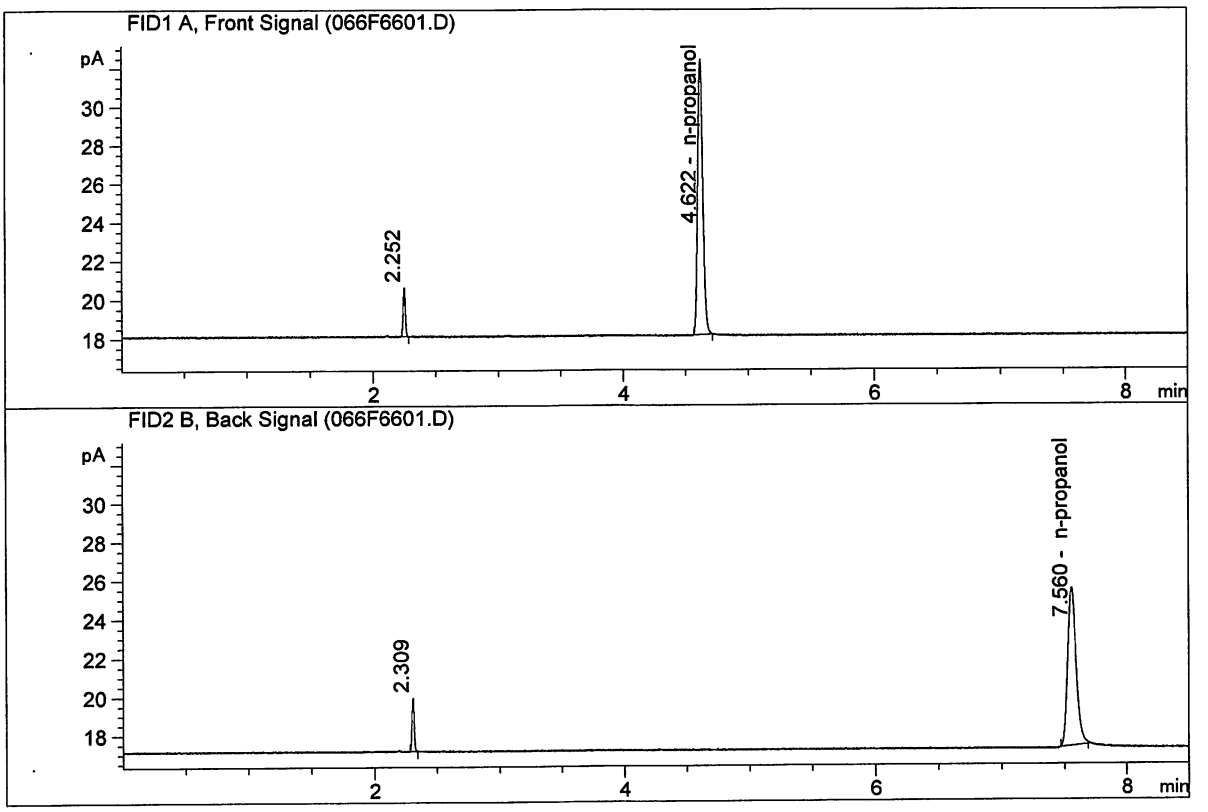
Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	40.98796	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.98714	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : TFE 111914
Laboratory : Meridian
Injection Date : Jun 16, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

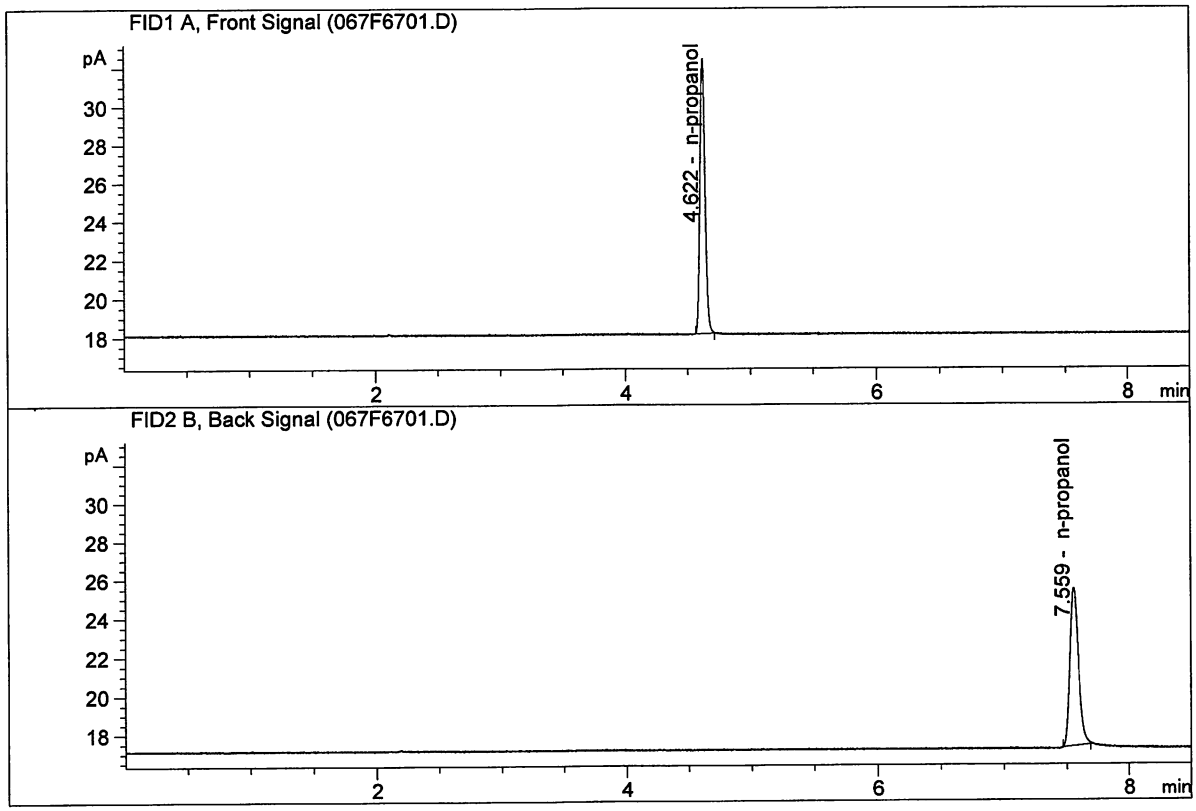


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	40.55482	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.47090	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Jun 16, 2017
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:	40.52901	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.41002	1.0000	g/100cc

JG

Sequence File C:\Chem32\...7_SAMPLES\06-15-17_SAMPLES 2017-06-15 16-55-40\06-15-17_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\06-15-17_SAMPLES\06-15-17_SAMPLES 2017-06-15 16-55-40\06 15-17_SAMPLES.S
Data directory path: C:\Chem32\1\Data\06-15-17_SAMPLES\06-15-17_SAMPLES 2017-06-15 16-55-40\
Logbook: C:\Chem32\1\Data\06-15-17_SAMPLES\06-15-17_SAMPLES 2017-06-15 16-55-40\06 15-17_SAMPLES.LOG
Sequence start: 6/15/2017 5:10:29 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\06-15-17_SAMPLES\06-15-17_SAMPLES 2017-06-15 16-55-40 \ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	# Cmp
1	1	1	INTERNAL STD BLK	-	1.0000	001F0101.D		2
2	2	1	MIX VOL FN092314	-	1.0000	002F0201.D		10
3	3	1	QC1-1-A	-	1.0000	003F0301.D		4
4	4	1	QC1-1-B	-	1.0000	004F0401.D		4
5	5	1	0.08 FN10281510-	-	1.0000	005F0501.D		4
6	6	1	0.08 FN10281510-	-	1.0000	006F0601.D		4
7	7	1	Repco 0.080 1780	-	1.0000	007F0701.D		4
8	8	1	Repco 0.080 1780	-	1.0000	008F0801.D		4
9	9	1	Repco 0.080 1780	-	1.0000	009F0901.D		4
10	10	1	Repco 0.080 1780	-	1.0000	010F1001.D		4
11	11	1	M2017-2261-2-A	-	1.0000	011F1101.D		2
12	12	1	M2017-2261-2-B	-	1.0000	012F1201.D		2
13	13	1	M2017-2574-1-A	-	1.0000	013F1301.D		4
14	14	1	M2017-2574-1-B	-	1.0000	014F1401.D		4
15	15	1	M2017-2575-1-A	-	1.0000	015F1501.D		4
16	16	1	M2017-2575-1-B	-	1.0000	016F1601.D		4
17	17	1	M2017-2591-1-A	-	1.0000	017F1701.D		4
18	18	1	M2017-2591-1-B	-	1.0000	018F1801.D		4
19	19	1	M2017-2592-1-A	-	1.0000	019F1901.D		4
20	20	1	M2017-2592-1-B	-	1.0000	020F2001.D		4
21	21	1	M2017-2593-1-A	-	1.0000	021F2101.D		2
22	22	1	M2017-2593-1-B	-	1.0000	022F2201.D		2
23	23	1	M2017-2595-1-A	-	1.0000	023F2301.D		4
24	24	1	M2017-2595-1-B	-	1.0000	024F2401.D		4
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	M2017-2606-1-A	-	1.0000	027F2701.D		4
28	28	1	M2017-2606-1-B	-	1.0000	028F2801.D		4
29	29	1	M2017-2607-1-A	-	1.0000	029F2901.D		4
30	30	1	M2017-2607-1-B	-	1.0000	030F3001.D		4
31	31	1	M2017-2615-1-A	-	1.0000	031F3101.D		4
32	32	1	M2017-2615-1-B	-	1.0000	032F3201.D		4
33	33	1	M2017-2619-1-A	-	1.0000	033F3301.D		4
34	34	1	M2017-2619-1-B	-	1.0000	034F3401.D		4
35	35	1	M2017-2620-1-A	-	1.0000	035F3501.D		2
36	36	1	M2017-2620-1-B	-	1.0000	036F3601.D		2
37	37	1	M2017-2621-1-A	-	1.0000	037F3701.D		4
38	38	1	M2017-2621-1-B	-	1.0000	038F3801.D		4
39	39	1	M2017-2622-1-A	-	1.0000	039F3901.D		4
40	40	1	M2017-2622-1-B	-	1.0000	040F4001.D		4
41	41	1	M2017-2623-1-A	-	1.0000	041F4101.D		4
42	42	1	M2017-2623-1-B	-	1.0000	042F4201.D		4
43	43	1	M2017-2631-1-A	-	1.0000	043F4301.D		4

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2017-2631-1-B	-	1.0000	044F4401.D	4
45	45	1	M2017-2634-1-A	-	1.0000	045F4501.D	2
46	46	1	M2017-2634-1-B	-	1.0000	046F4601.D	2
47	47	1	QC1-2-A	-	1.0000	047F4701.D	4
48	48	1	QC1-2-B	-	1.0000	048F4801.D	4
49	49	1	M2017-2660-1-A	-	1.0000	049F4901.D	4
50	50	1	M2017-2660-1-B	-	1.0000	050F5001.D	4
51	51	1	M2017-~~2660-2-A~~ ~~2660-1~~ 2661-1A		1.0000	051F5101.D	3
52	52	1	M2017-~~2660-2-B~~ 2661-1-B JG		1.0000	052F5201.D	3
53	53	1	M2017-~~2661-1-A~~ 2661-2-A JG		1.0000	053F5301.D	2
54	54	1	M2017-~~2661-1-B~~ 2661-2-B JG		1.0000	054F5401.D	2
55	55	1	M2017-2662-1-A	-	1.0000	055F5501.D	4
56	56	1	M2017-2662-1-B	-	1.0000	056F5601.D	4
57	57	1	M2017-2663-1-A	-	1.0000	057F5701.D	2
58	58	1	M2017-2663-1-B	-	1.0000	058F5801.D	2
59	59	1	QC2-2-A	-	1.0000	059F5901.D	4
60	60	1	QC2-2-B	-	1.0000	060F6001.D	4
61	61	1	INTERNAL STD BLK	-	1.0000	061F6101.D	2
62	62	1	Acetaldehyde A01	-	1.0000	062F6201.D	2
63	63	1	INTERNAL STD BLK	-	1.0000	063F6301.D	0
64	64	1	DFE 111914OM	-	1.0000	064F6401.D	2
65	65	1	INTERNAL STD BLK	-	1.0000	065F6501.D	2
66	66	1	TFE 111914	-	1.0000	066F6601.D	2
67	67	1	INTERNAL STD BLK	-	1.0000	067F6701.D	2

empty vial

Method file name: C:\Chem32\1\Data\06-15-17_SAMPLES\06-15-17_SAMPLES 2017-06-15 16-55-40\SHUTDOWN.M

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
68	68	1	EMPTY	-	1.0000	068F6801.D	0

JG