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): 05/23/2017-05/24/2017**

Calibration Date: 5/23/2017

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702 - 0.0858	0.0772 g/100cc
					0.0792 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818 - 0.2222	0.1995 g/100cc
					0.2046 g/100cc

Multi-Component Mixture	Exp: Oct 2019	Lot #	FN09231404	OK
Curve Fit:	Column 1	0.99999	Column 2	0.99989

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	0.0528	0.0024	0.0516
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.1006	0.1004	0.0002	0.1005
0.200	Oct-20	FN07201502	0.200	0.180 - 0.220	0.1989	0.1970	0.0019	0.1979
0.300	Feb-21	FN02121601	0.300	0.270 - 0.330	0.2997	0.2974	0.0023	0.2985
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5005	0.5024	0.0019	0.5014

Aqueous Controls					
Control level	Expiration	Cerilliant Lot #	Target Value	Acceptable Range	Overall Results
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.081 g/100cc

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

VG

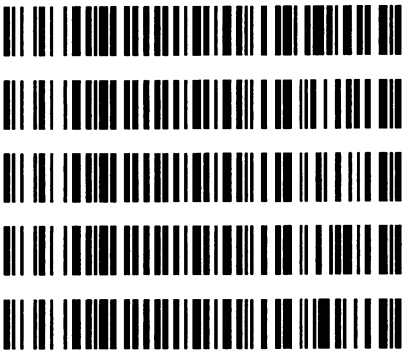
Worklist: 1735

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-2105	1	84243	Alcohol Analysis
M2017-2106	1	84244	Alcohol Analysis
M2017-2107	1	84245	Alcohol Analysis
M2017-2190	1	84754	Alcohol Analysis
M2017-2191	1	84755	Alcohol Analysis
M2017-2192	1	84756	Alcohol Analysis
M2017-2207	1	84805	Alcohol Analysis
M2017-2208	2	84830	Alcohol Analysis
M2017-2219	1	84848	Alcohol Analysis
M2017-2234	1	84874	Alcohol Analysis
M2017-2235	1	84875	Alcohol Analysis
M2017-2242	1	84889	Alcohol Analysis
M2017-2247	1	84914	Alcohol Analysis
M2017-2252	1	84951	Alcohol Analysis
M2017-2256	1	84985	Alcohol Analysis
M2017-2257	1	84986	Alcohol Analysis
M2017-2258	1	84991	Alcohol Analysis
M2017-2262	1	85015	Alcohol Analysis
M2017-2263	1	85016	Alcohol Analysis
M2017-2264	1	85017	Alcohol Analysis
M2017-2266	1	85023	Alcohol Analysis
M2017-2274	1	85112	Alcohol Analysis
M2017-2276	1	85122	Alcohol Analysis

JC

Worklist: 1735

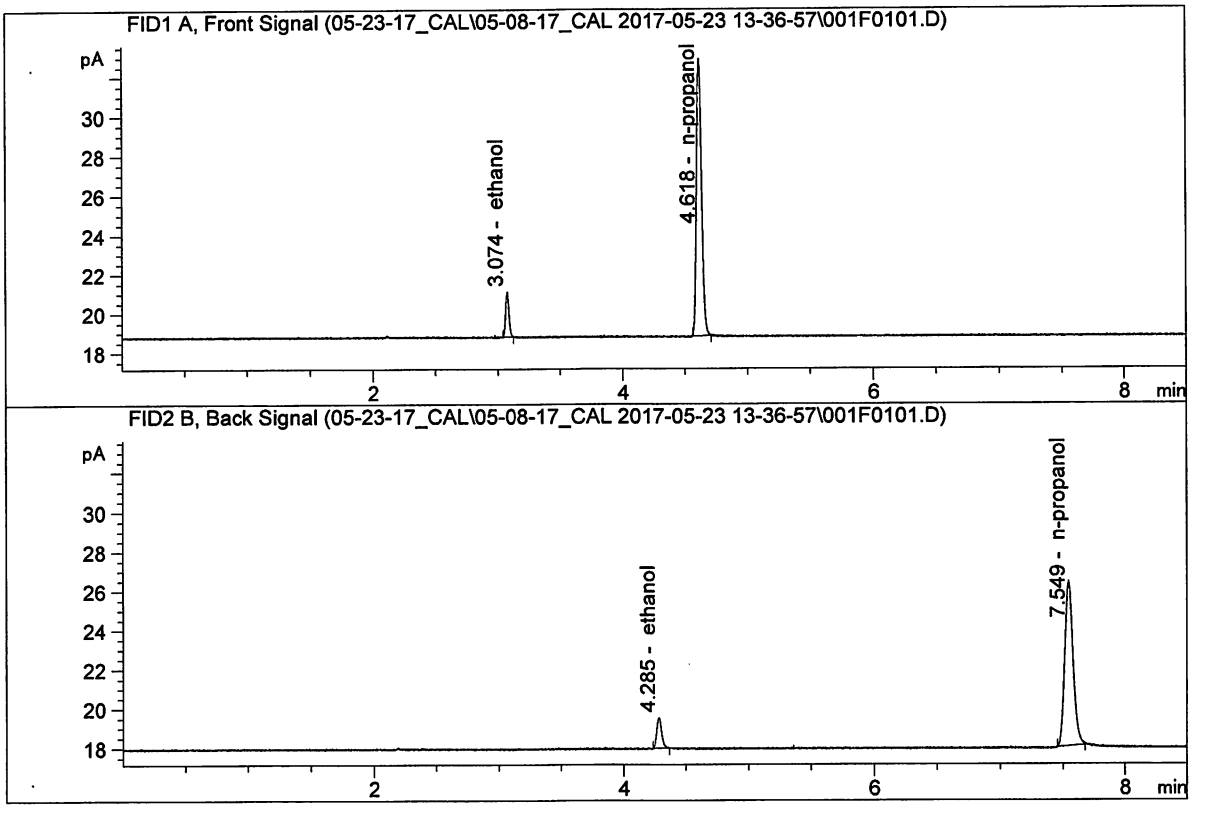
LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-2279	1	85143	Alcohol Analysis
M2017-2288	1	85159	Alcohol Analysis
M2017-2289	1	85163	Alcohol Analysis
M2017-2290	1	85164	Alcohol Analysis
M2017-2316	1	85207	Alcohol Analysis



JC

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN06231406
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

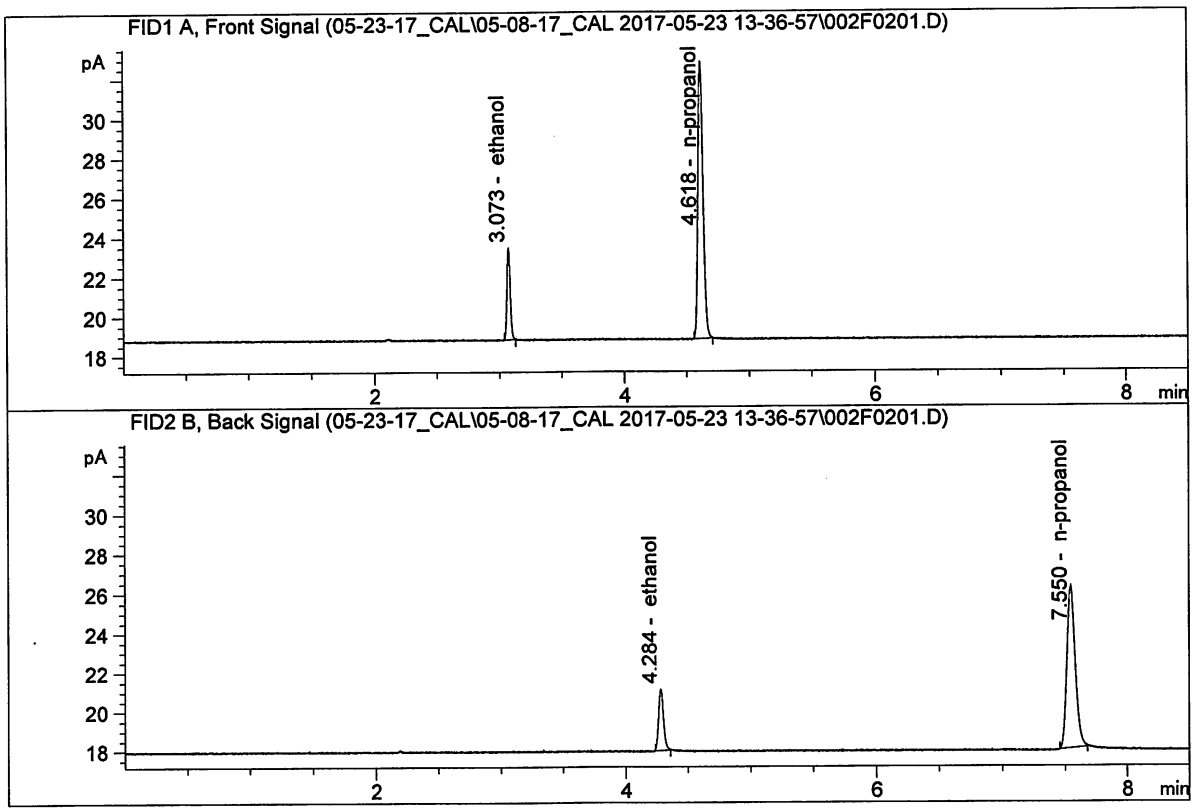


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.22233	0.0504	g/100cc
2.	Ethanol	Column 2:	4.26678	0.0528	g/100cc
3.	n-Propanol	Column 1:	40.00319	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.39707	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN06181501
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

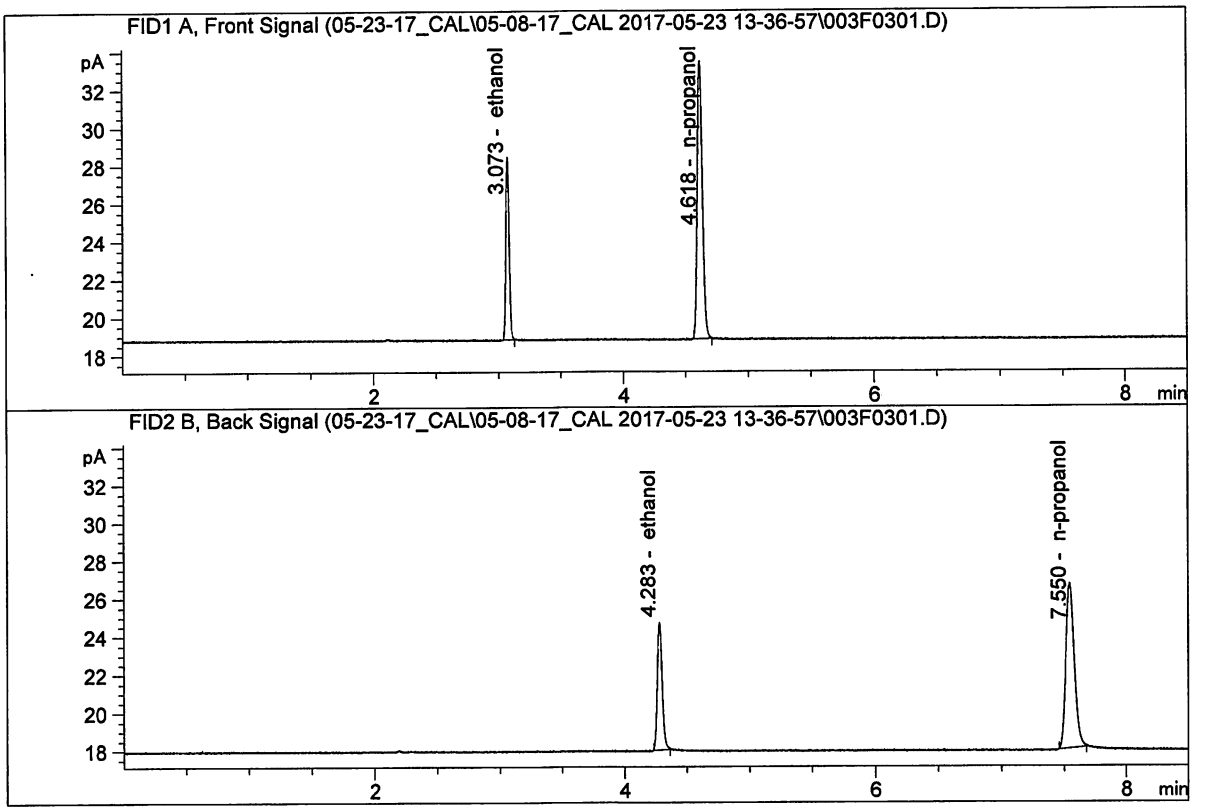


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	8.47325	0.1006	g/100cc
2.	Ethanol	Column 2:	8.50781	0.1004	g/100cc
3.	n-Propanol	Column 1:	39.80037	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.83430	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN07201502
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.61580	0.1989	g/100cc
2.	Ethanol	Column 2:	17.98410	0.1970	g/100cc
3.	n-Propanol	Column 1:	41.60757	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.60886	1.0000	g/100cc

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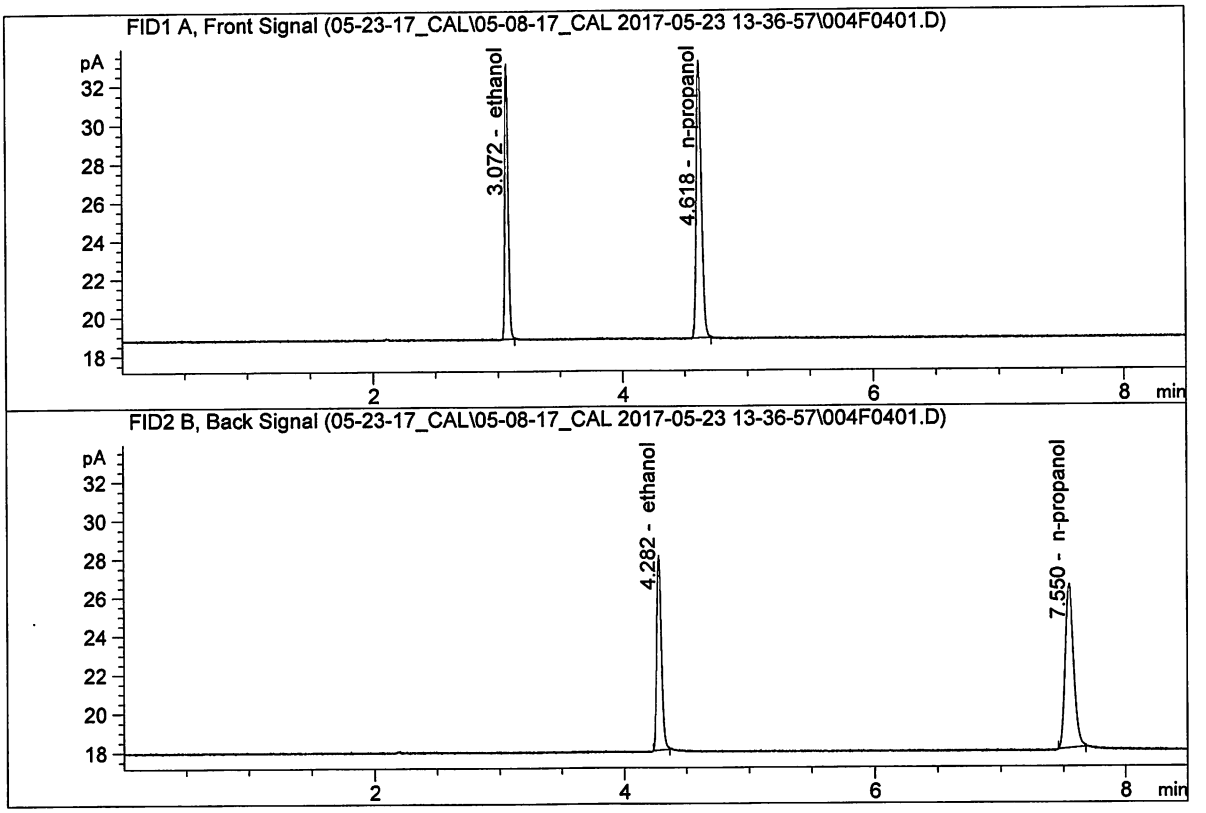
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN02121601
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	26.05869	0.2997	g/100cc
2.	Ethanol	Column 2:	26.81960	0.2974	g/100cc
3.	n-Propanol	Column 1:	40.78704	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.64908	1.0000	g/100cc

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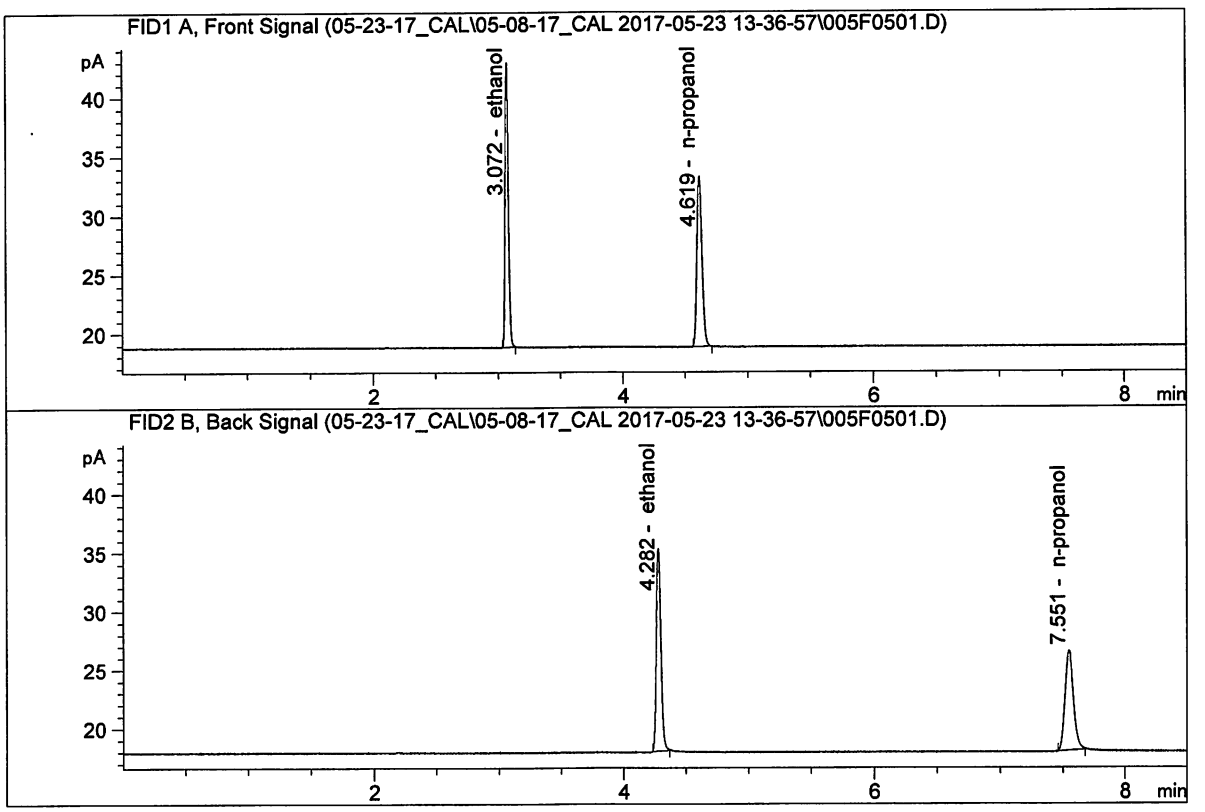
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN07031402
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	43.94421	0.5005	g/100cc
2.	Ethanol	Column 2:	45.74708	0.5024	g/100cc
3.	n-Propanol	Column 1:	41.12313	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.69912	1.0000	g/100cc

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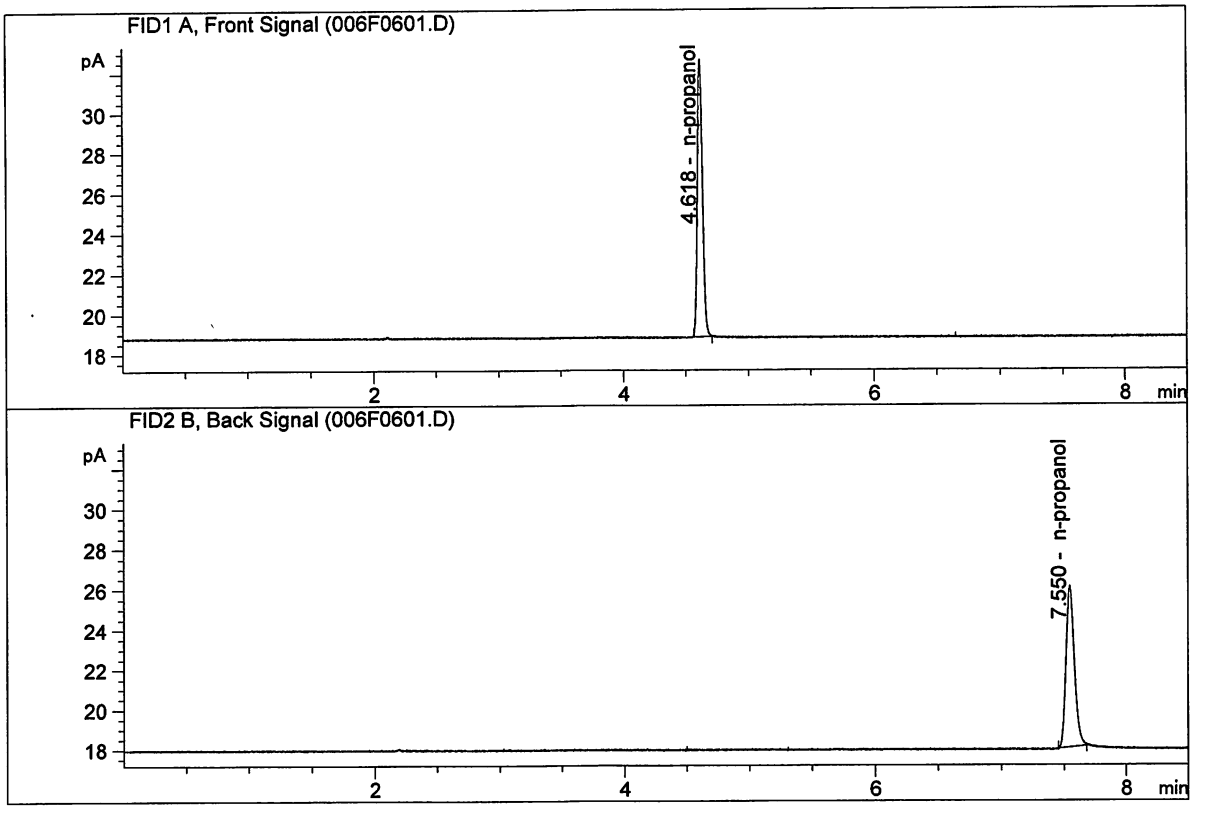
ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : May 23, 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:	39.13022	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.97225	1.0000	g/100cc

JL

Sequence File C:\Chem32\1\Data\05-23-17_CAL\05-08-17_CAL 2017-05-23 13-36-57\05-08-17_CAL.S

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

Sequence table: C:\Chem32\1\Data\05-23-17_CAL\05-08-17_CAL 2017-05-23 13-36-57\05-08-17_CAL.S
Data directory path: C:\Chem32\1\Data\05-23-17_CAL\05-08-17_CAL 2017-05-23 13-36-57\
Logbook: C:\Chem32\1\Data\05-23-17_CAL\05-08-17_CAL 2017-05-23 13-36-57\05-08-17_CAL.LOG
Sequence start: 5/23/2017 1:51:34 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\05-23-17_CAL\05-08-17_CAL 2017-05-23 13-36-57\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

Calibration Table

General Calibration Setting

Calib. Data Modified : Tuesday, May 23, 2017 2:42:06 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

JG

Method C:\CHEM32\1\METHODS\ALCOHOL.M

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	4.22233	1.18418e-2	No	No	1	ethanol
		2	1.00000e-1	8.47325	1.18018e-2				
		3	2.00000e-1	17.61580	1.13534e-2				
		4	3.00000e-1	26.05869	1.15125e-2				
		5	5.00000e-1	43.94421	1.13781e-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	4.26678	1.17184e-2	No	No	2	ethanol
		2	1.00000e-1	8.50781	1.17539e-2				
		3	2.00000e-1	17.98410	1.11209e-2				
		4	3.00000e-1	26.81960	1.11859e-2				
		5	5.00000e-1	45.74708	1.09297e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.618	1	1	1.00000	40.00319	2.49980e-2	No	Yes	1	n-propanol
		2	1.00000	39.80037	2.51254e-2				
		3	1.00000	41.60757	2.40341e-2				
		4	1.00000	40.78704	2.45176e-2				
		5	1.00000	41.12313	2.43172e-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	40.39707	2.47543e-2	No	Yes	2	n-propanol
		2	1.00000	39.83430	2.51040e-2				
		3	1.00000	41.60886	2.40333e-2				
		4	1.00000	40.64908	2.46008e-2				
		5	1.00000	40.69912	2.45706e-2				

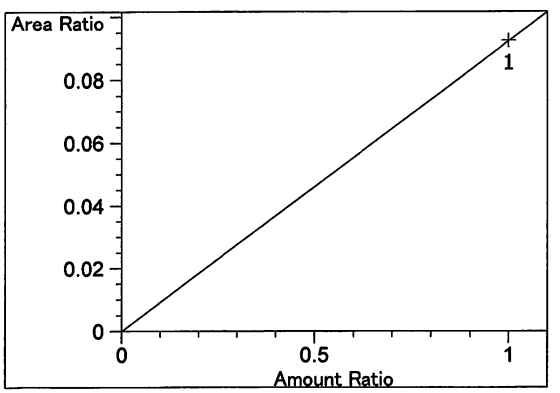
Peak Sum Table

No Entries in table

1 Warnings or Errors :

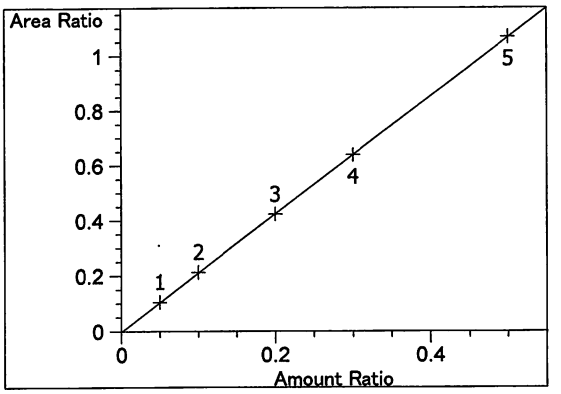
Warning : Curve requires more calibration points., (methanol)

Calibration Curves

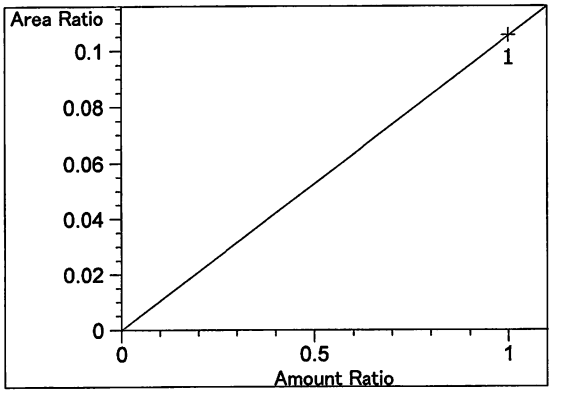


methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 9.24100e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio

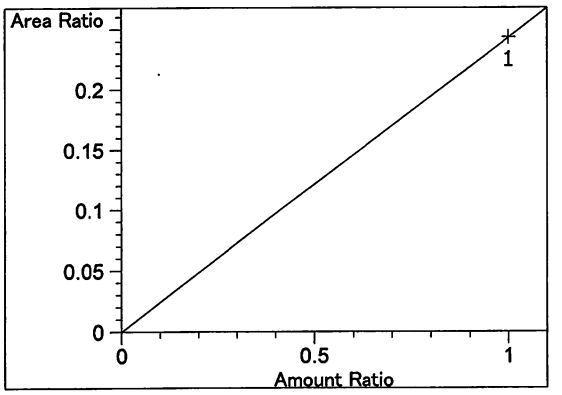
JG



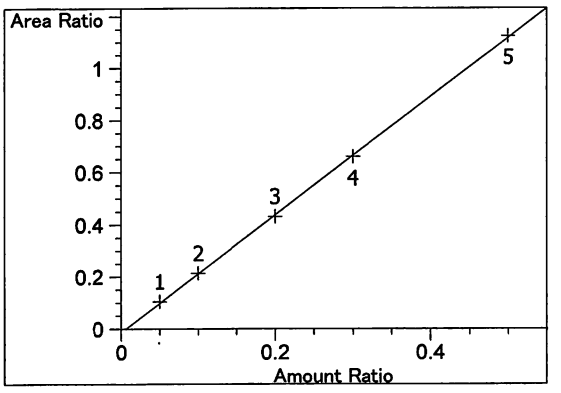
ethanol at exp. RT: 3.072
FID1 A, Front Signal
Correlation: 0.99999
Residual Std. Dev.: 0.00173
Formula: y = mx + b
m: 2.13960
b: -2.24317e-3
x: Amount Ratio
y: Area Ratio



methanol at exp. RT: 3.388
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.05469e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

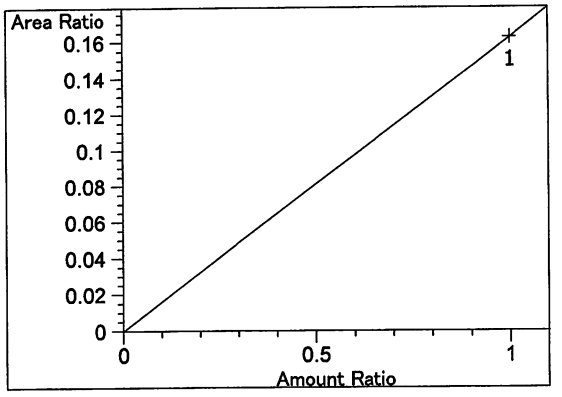


isopropyl alcohol at exp. RT: 3.628
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.43244e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

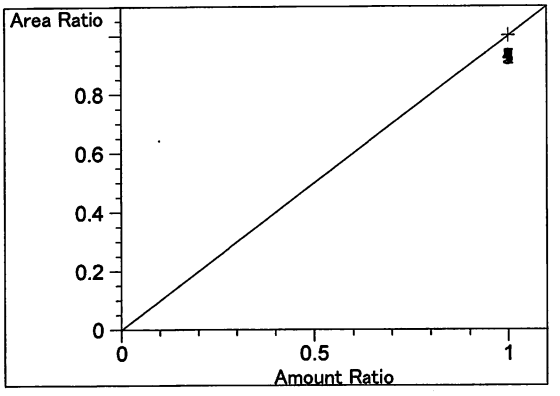


ethanol at exp. RT: 4.281
FID2 B, Back Signal
Correlation: 0.99989
Residual Std. Dev.: 0.00709
Formula: y = mx + b
m: 2.26507
b: -1.39203e-2
x: Amount Ratio
y: Area Ratio

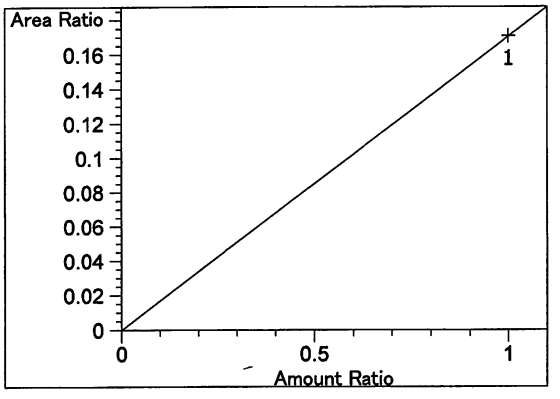
JF



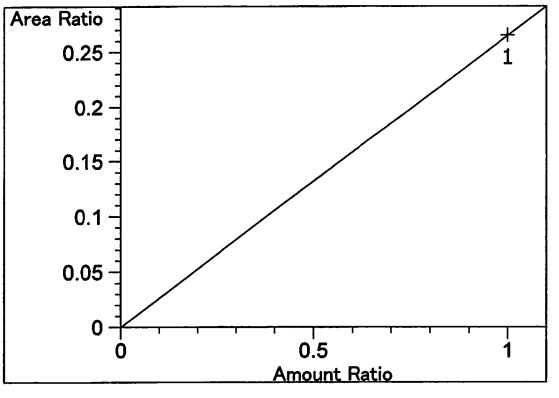
acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.62472e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



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



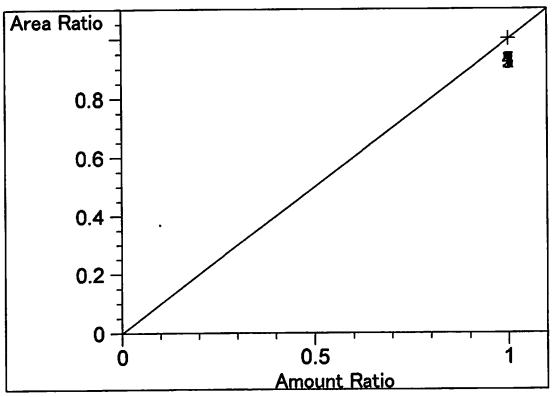
acetone at exp. RT: 4.661
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.70631e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



isopropyl alcohol at exp. RT: 4.969
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.65029e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

J6

Method C:\CHEM32\1\METHODS\ALCOHOL.M



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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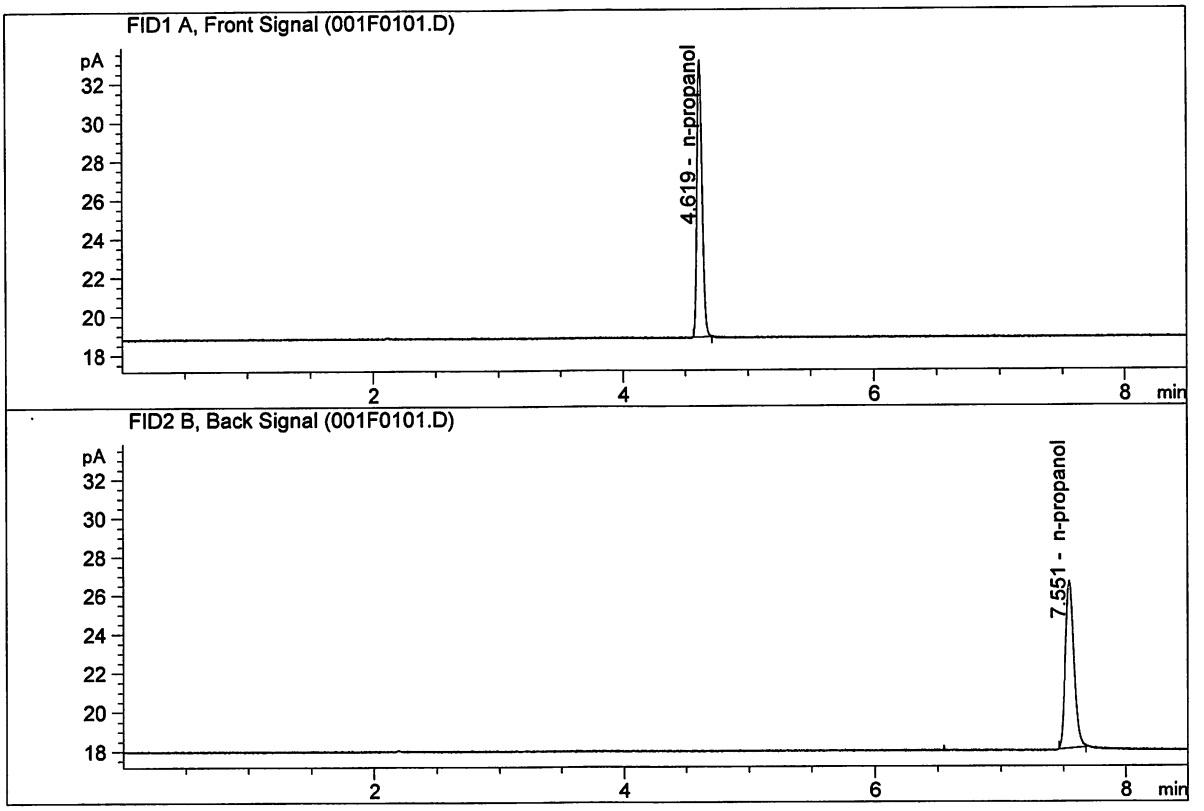
JG

ISP Forensic Services Blood Alcohol Report

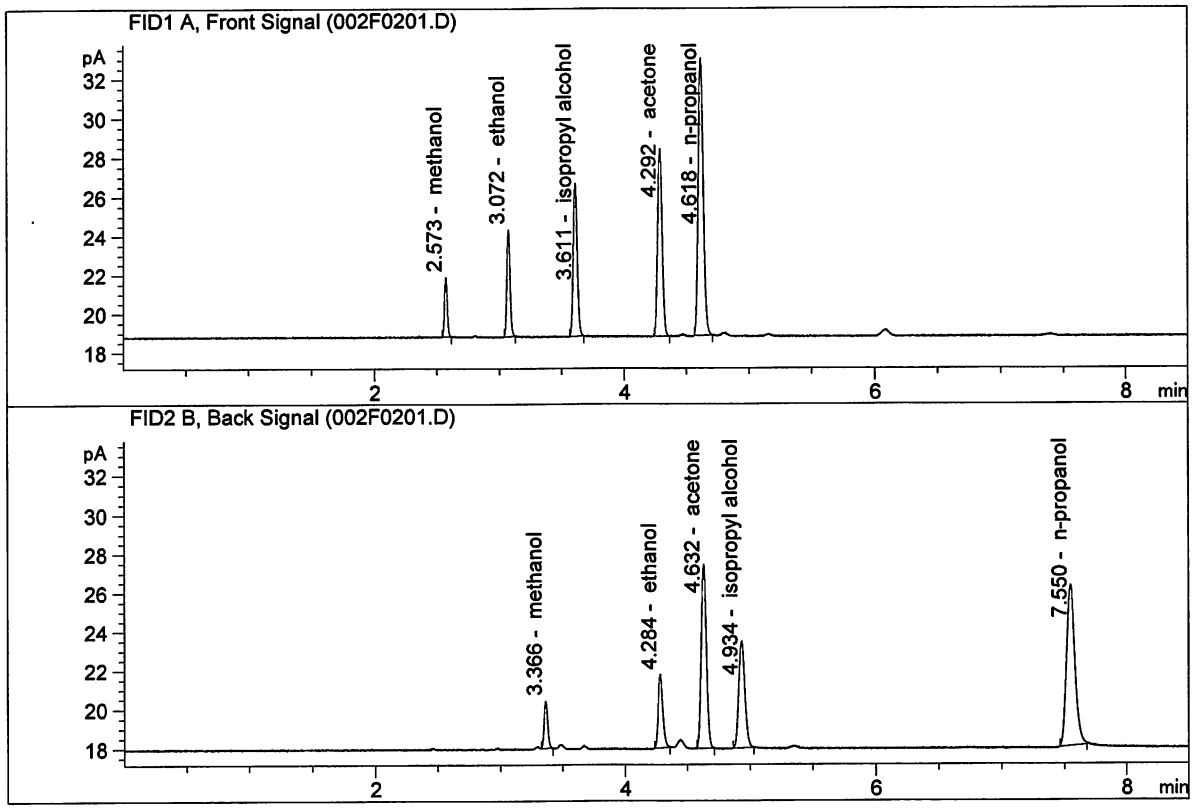
Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	40.64493	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.97640	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

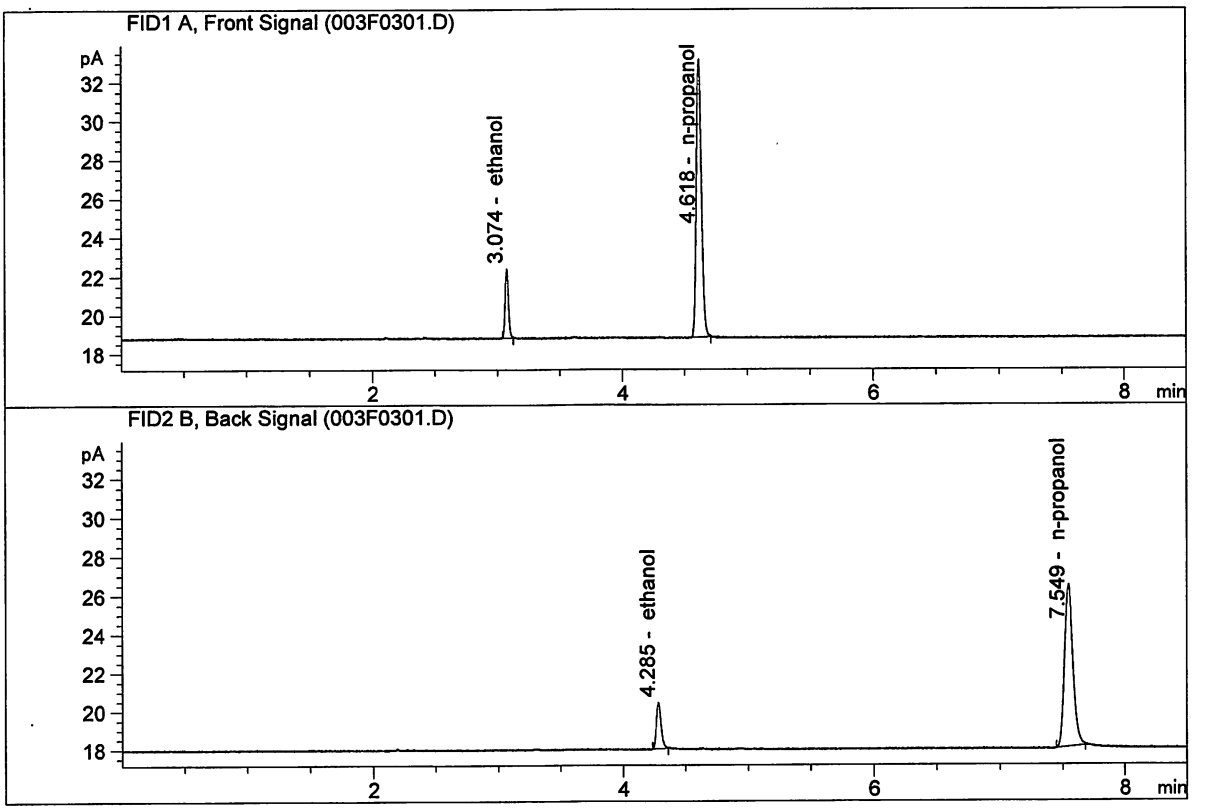


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.86203	0.1166	g/100cc
2.	Ethanol	Column 2:	9.88877	0.1160	g/100cc
3.	n-Propanol	Column 1:	39.89872	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.74218	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

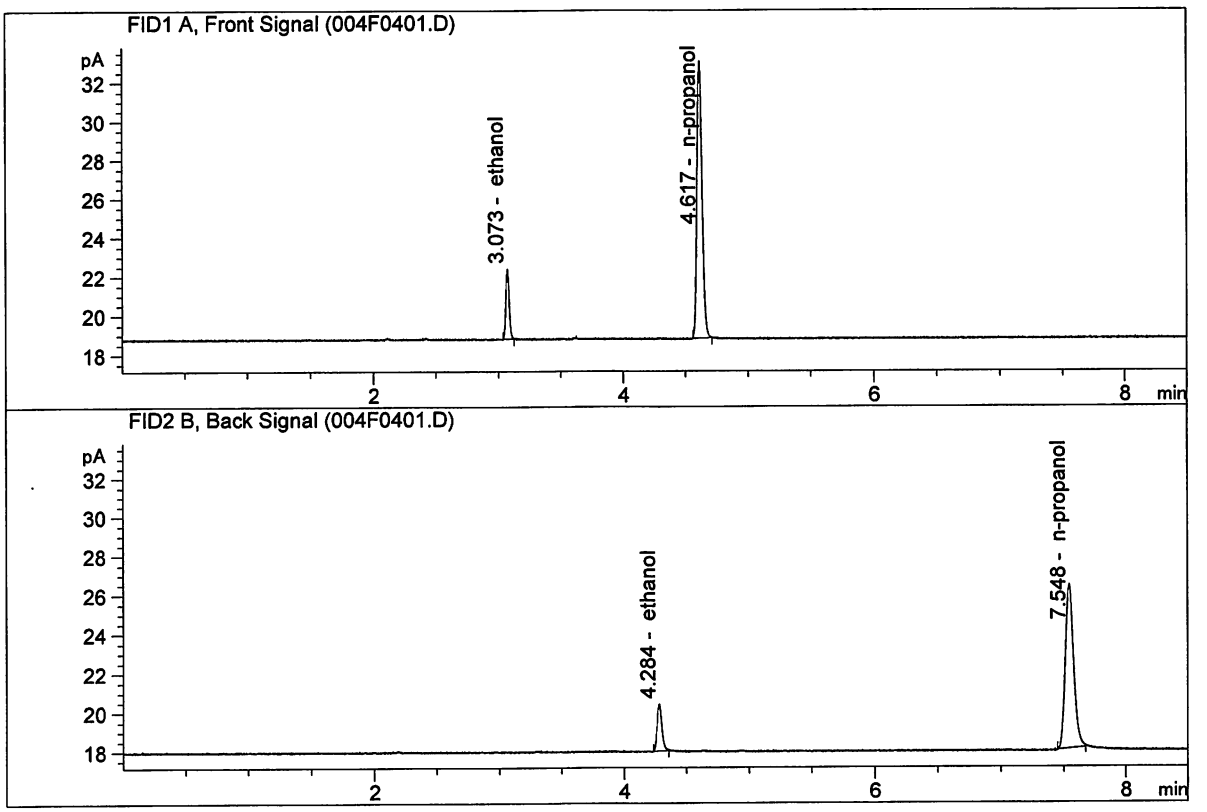
Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.58823	0.0767	g/100cc
2.	Ethanol	Column 2:	6.56568	0.0773	g/100cc
3.	n-Propanol	Column 1:	40.69856	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.74594	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.57112	0.0768	g/100cc
2.	Ethanol	Column 2:	6.56233	0.0781	g/100cc
3.	n-Propanol	Column 1:	40.52343	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.26192	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 23 May 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0767	0.0773	0.0006	0.0770	0.0772
(g/100cc)	0.0768	0.0781	0.0013	0.0774	

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information *Instrument method is stored centrally.*

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

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**

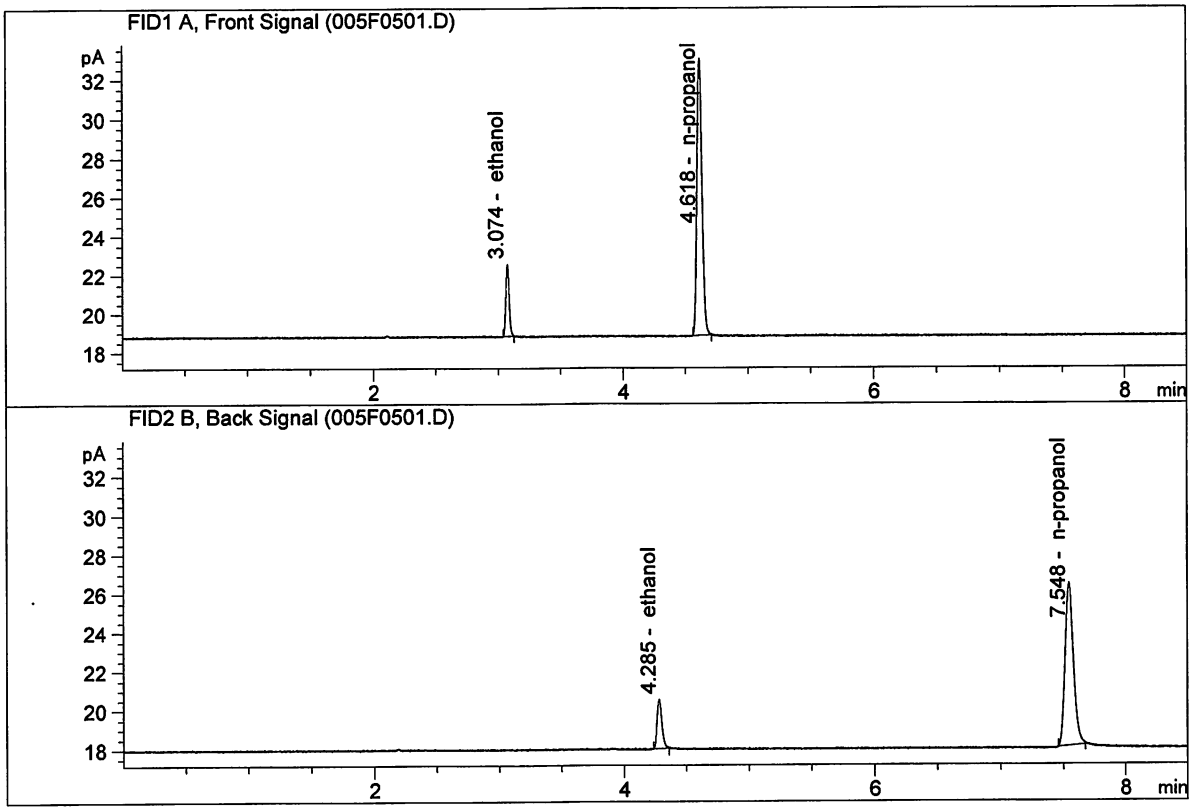
Reported Result

0.077

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

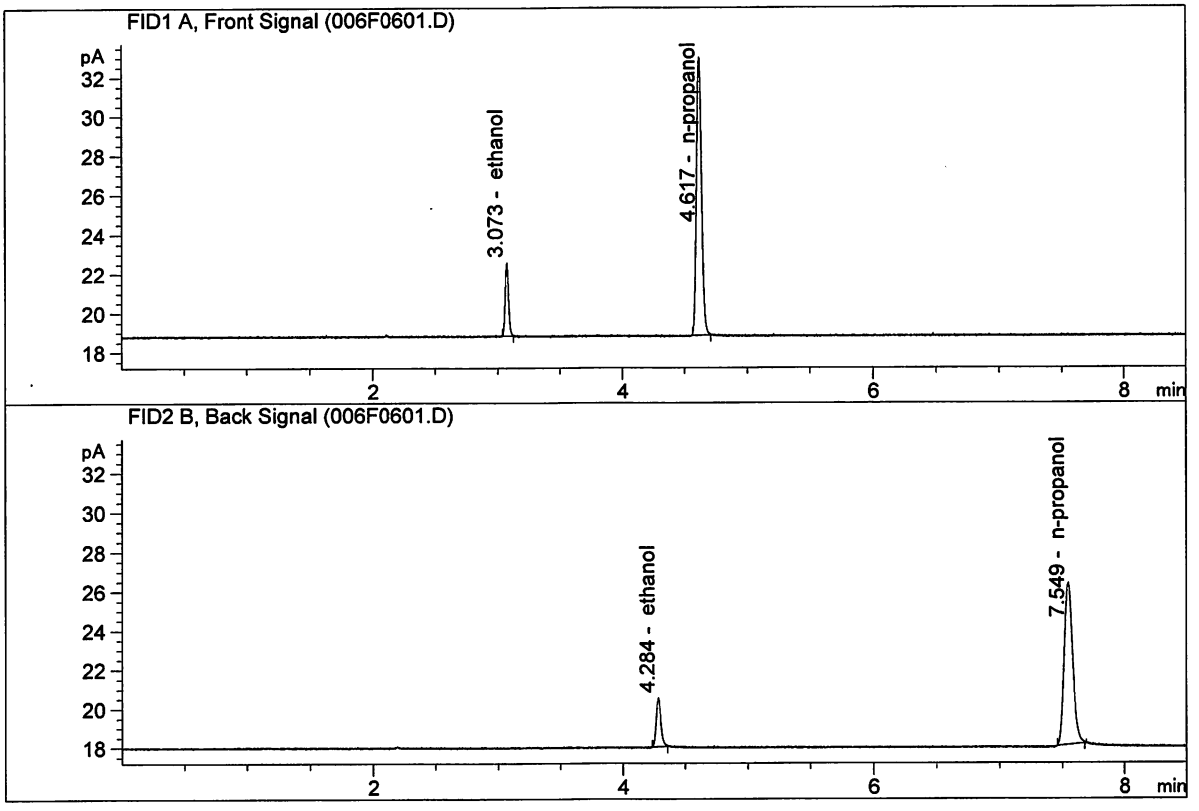


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.87464	0.0803	g/100cc
2.	Ethanol	Column 2:	6.86466	0.0816	g/100cc
3.	n-Propanol	Column 1:	40.52697	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.14768	1.0000	g/100cc

JL

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.86873	0.0808	g/100cc
2.	Ethanol	Column 2:	6.80991	0.0815	g/100cc
3.	n-Propanol	Column 1:	40.24522	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.91528	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 23 May 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0803	0.0816	0.0013	0.0809	0.0810	
(g/100cc)	0.0808	0.0815	0.0007	0.0811		

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
0.081	**0.076**	**0.086**	**0.005**

Reported Result

0.081

Calibration and control data are stored centrally.

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 23 May 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.1992	0.1989	0.0003	0.1990	0.1995	
(g/100cc)	0.2000	0.2001	0.0001	0.2000		

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%**

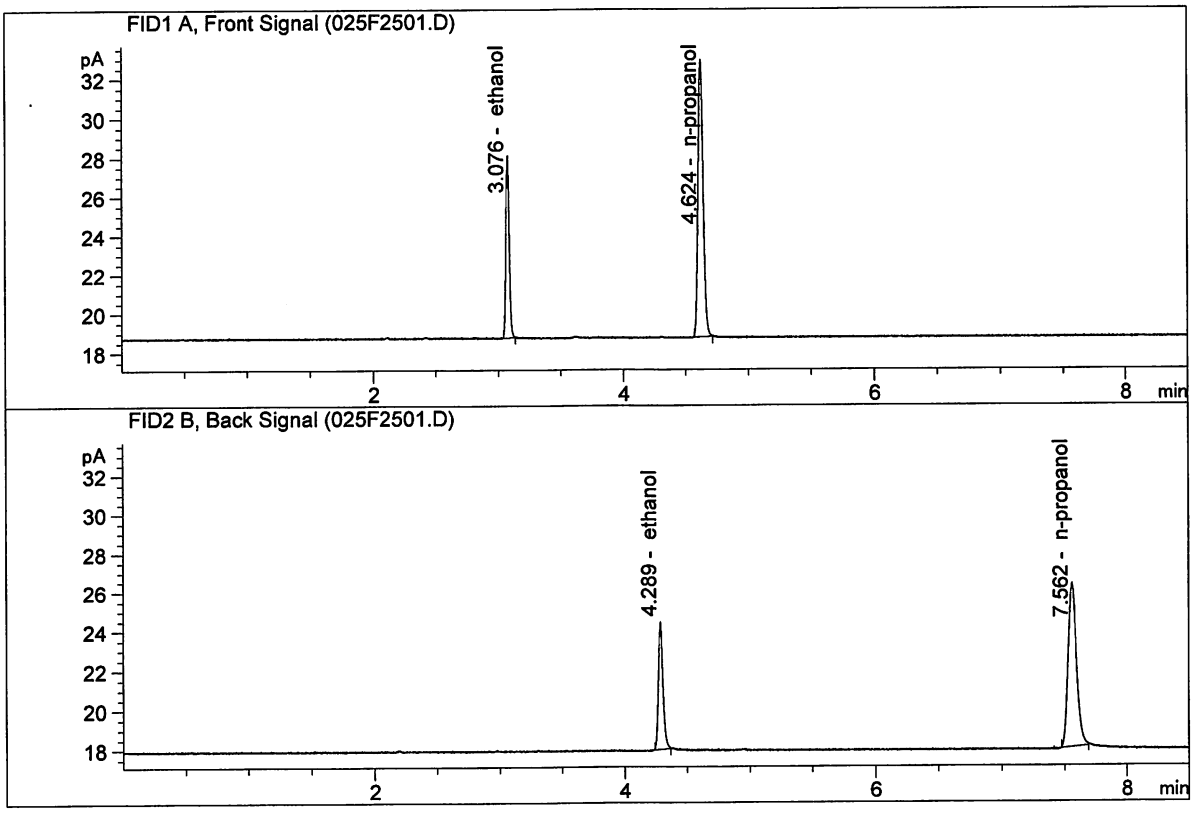
Overall Mean (g/100cc)	Low	High	5% of Mean
0.199	**0.189**	**0.209**	**0.010**

	Reported Result	
	0.199	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

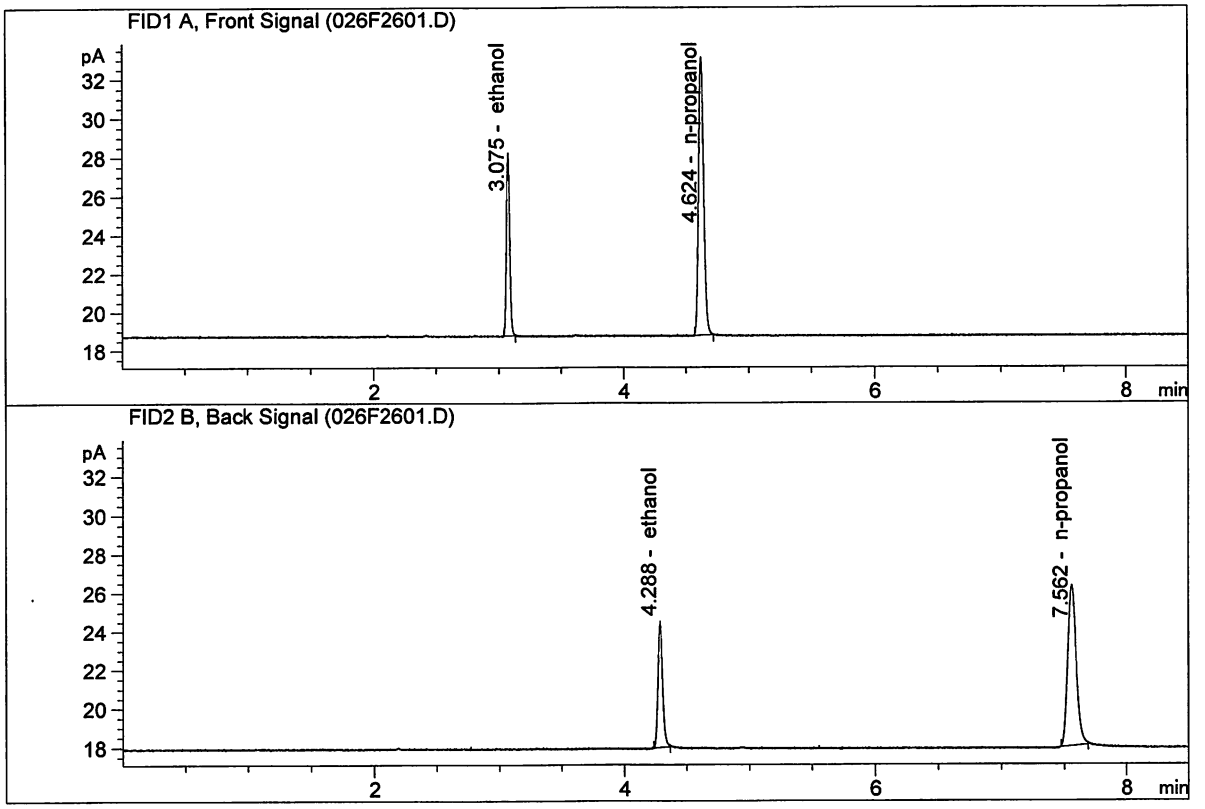


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.09982	0.1992	g/100cc
2.	Ethanol	Column 2:	17.32574	0.1989	g/100cc
3.	n-Propanol	Column 1:	40.33685	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.69302	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : May 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.36386	0.2000	g/100cc
2.	Ethanol	Column 2:	17.63987	0.2001	g/100cc
3.	n-Propanol	Column 1:	40.78211	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.15285	1.0000	g/100cc

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 24 May 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0796	0.0809	0.0013	0.0802	0.0792	
(g/100cc)	0.0777	0.0788	0.0011	0.0782		

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%**

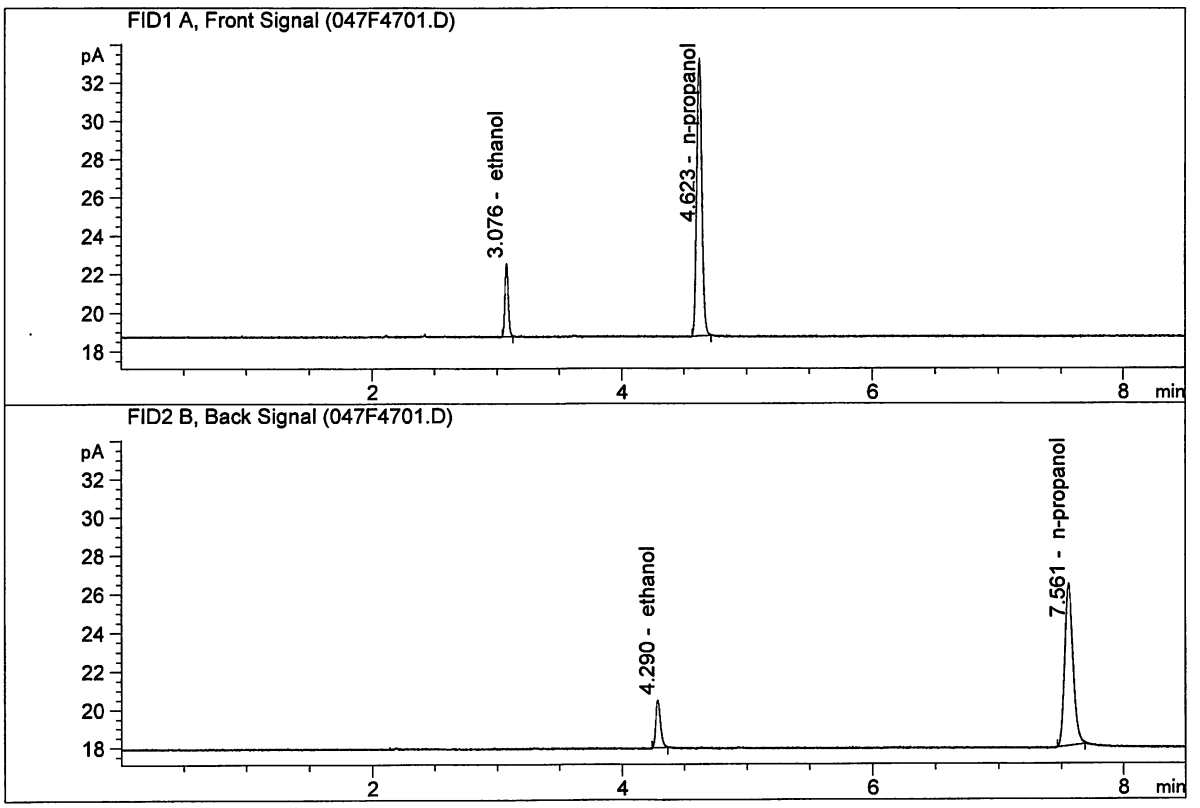
Overall Mean (g/100cc)	Low	High	5% of Mean
0.079	**0.075**	**0.083**	**0.004**

	Reported Result	
	0.079	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

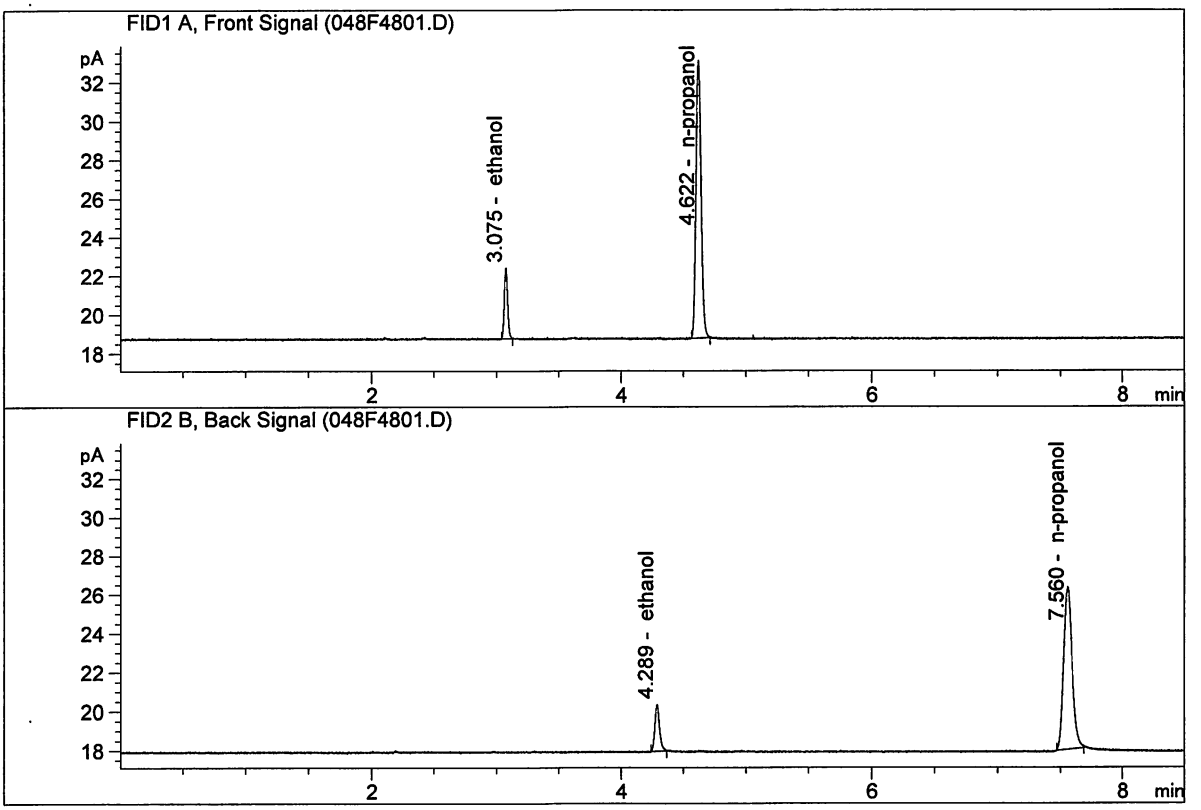
Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : May 24, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.93938	0.0796	g/100cc
2.	Ethanol	Column 2:	6.87747	0.0809	g/100cc
3.	n-Propanol	Column 1:	41.27308	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.63242	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : May 24, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.69208	0.0777	g/100cc
2.	Ethanol	Column 2:	6.60543	0.0788	g/100cc
3.	n-Propanol	Column 1:	40.81357	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.12025	1.0000	g/100cc

JC

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 24 May 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2048	0.2047	0.0001	0.2047	0.2046	
(g/100cc)	0.2048	0.2044	0.0004	0.2046		

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%**

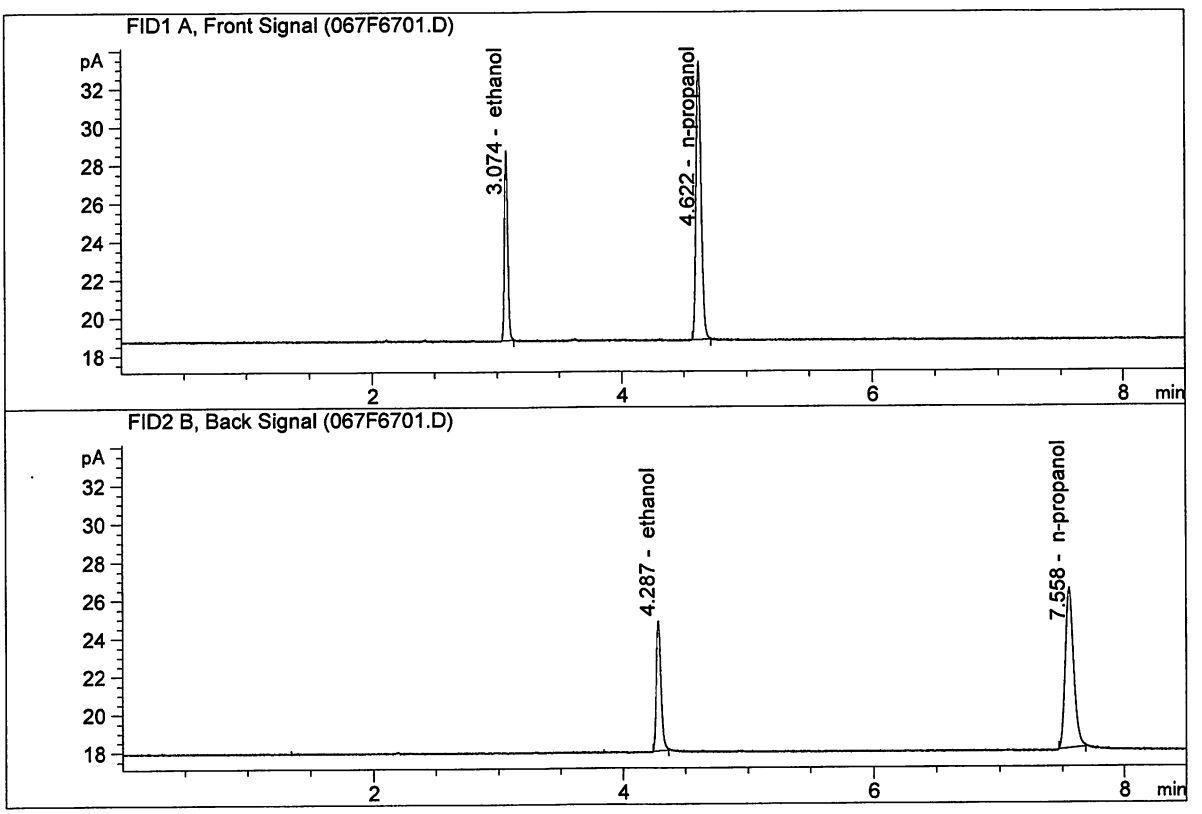
Overall Mean (g/100cc)	Low	High	5% of Mean
0.204	**0.193**	**0.215**	**0.011**

	Reported Result	
	0.204	

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : May 24, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.06744	0.2048	g/100cc
2.	Ethanol	Column 2:	18.24126	0.2047	g/100cc
3.	n-Propanol	Column 1:	41.45401	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.56728	1.0000	g/100cc

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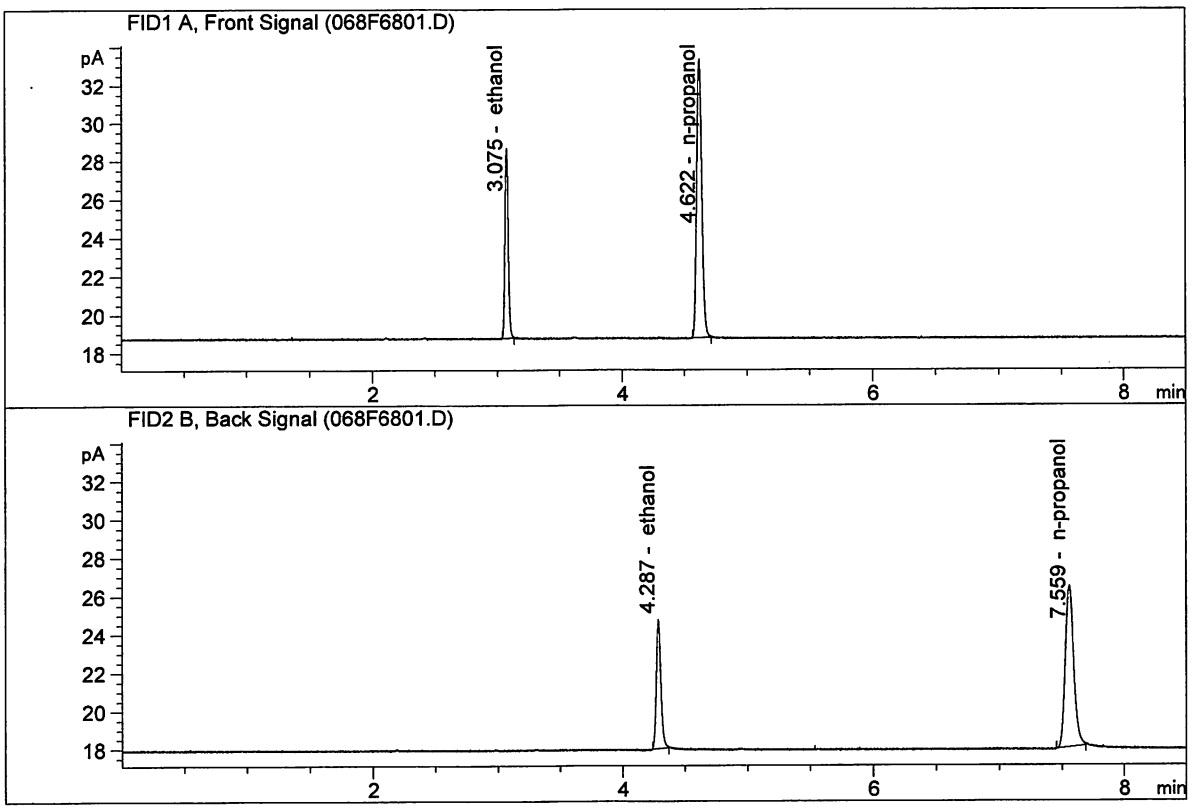
ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : May 24, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

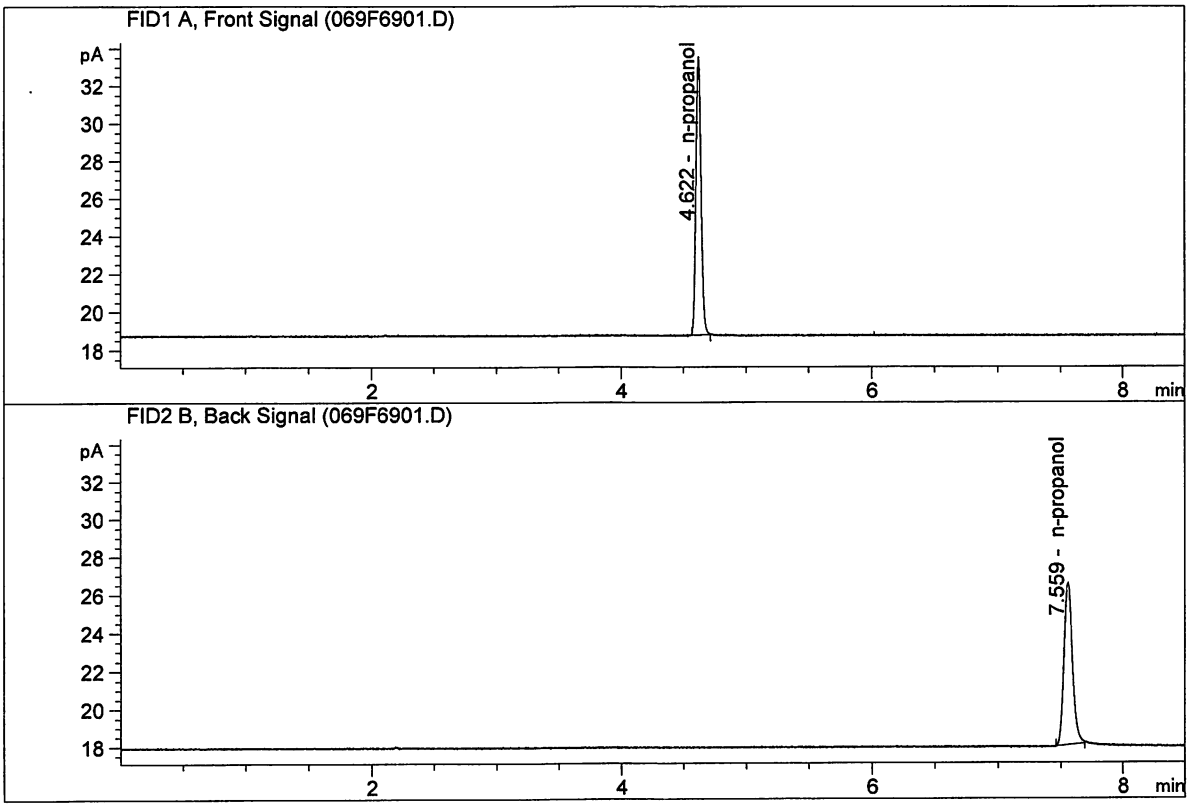


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.03989	0.2048	g/100cc
2.	Ethanol	Column 2:	18.27310	0.2044	g/100cc
3.	n-Propanol	Column 1:	41.38493	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.70179	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

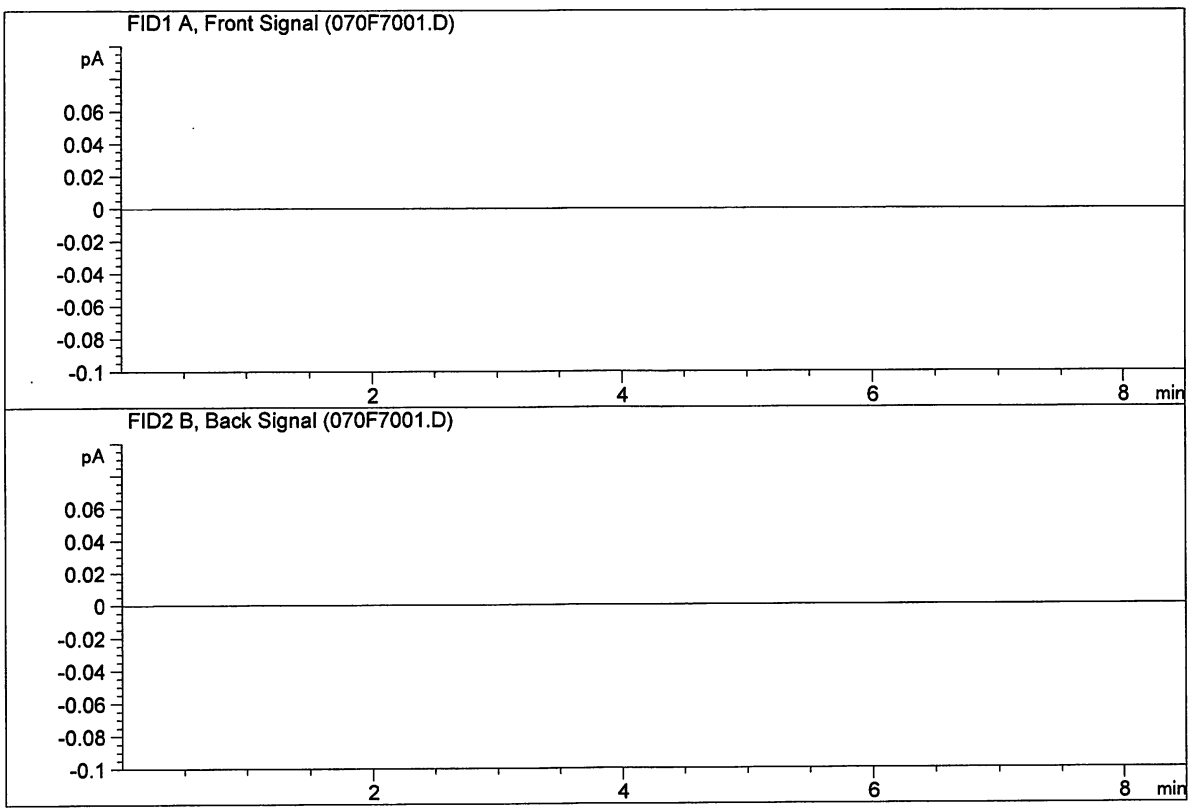
Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : May 24, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	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:	41.90678	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.40018	1.0000	g/100cc

ISP Forensic Services Blood Alcohol Report

Sample Name : EMPTY
Laboratory : Meridian
Injection Date : May 24, 2017
Method : SHUTDOWN.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

JG

Sample Summary

Sequence table: C:\Chem32\1\Data\05-23-17_SAMPLES\05-23-17_SAMPLES 2017-05-23 16-06-06\05-23-17_SAMPLES.S
Data directory path: C:\Chem32\1\Data\05-23-17_SAMPLES\05-23-17_SAMPLES 2017-05-23 16-06-06\
Logbook: C:\Chem32\1\Data\05-23-17_SAMPLES\05-23-17_SAMPLES 2017-05-23 16-06-06\05-23-17_SAMPLES.LOG
Sequence start: 5/23/2017 4:20:57 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\05-23-17_SAMPLES\05-23-17_SAMPLES 2017-05-23 16-06-06\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	M2017-2105-1-A	-	1.0000	007F0701.D		4
8	8	1	M2017-2105-1-B	-	1.0000	008F0801.D		4
9	9	1	M2017-2106-1-A	-	1.0000	009F0901.D		4
10	10	1	M2017-2106-1-B	-	1.0000	010F1001.D		4
11	11	1	M2017-2107-1-A	-	1.0000	011F1101.D		4
12	12	1	M2017-2107-1-B	-	1.0000	012F1201.D		4
13	13	1	M2017-2190-1-A	-	1.0000	013F1301.D		4
14	14	1	M2017-2190-1-B	-	1.0000	014F1401.D		4
15	15	1	M2017-2191-1-A	-	1.0000	015F1501.D		4
16	16	1	M2017-2191-1-B	-	1.0000	016F1601.D		4
17	17	1	M2017-2192-1-A	-	1.0000	017F1701.D		4
18	18	1	M2017-2192-1-B	-	1.0000	018F1801.D		4
19	19	1	M2017-2207-1-A	-	1.0000	019F1901.D		4
20	20	1	M2017-2207-1-B	-	1.0000	020F2001.D		4
21	21	1	M2017-2208-2-A	-	1.0000	021F2101.D		2
22	22	1	M2017-2208-2-B	-	1.0000	022F2201.D		2
23	23	1	M2017-2219-1-A	-	1.0000	023F2301.D		4
24	24	1	M2017-2219-1-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	M2017-2234-1-A	-	1.0000	027F2701.D		4
28	28	1	M2017-2234-1-B	-	1.0000	028F2801.D		4
29	29	1	M2017-2235-1-A	-	1.0000	029F2901.D		4
30	30	1	M2017-2235-1-B	-	1.0000	030F3001.D		4
31	31	1	M2017-2242-1-A	-	1.0000	031F3101.D		4
32	32	1	M2017-2242-1-B	-	1.0000	032F3201.D		4
33	33	1	M2017-2247-1-A	-	1.0000	033F3301.D		4
34	34	1	M2017-2247-1-B	-	1.0000	034F3401.D		4
35	35	1	M2017-2252-1-A	-	1.0000	035F3501.D		4
36	36	1	M2017-2252-1-B	-	1.0000	036F3601.D		4
37	37	1	M2017-2256-1-A	-	1.0000	037F3701.D		4
38	38	1	M2017-2256-1-B	-	1.0000	038F3801.D		4
39	39	1	M2017-2257-1-A	-	1.0000	039F3901.D		2
40	40	1	M2017-2257-1-B	-	1.0000	040F4001.D		2
41	41	1	M2017-2258-1-A	-	1.0000	041F4101.D		4
42	42	1	M2017-2258-1-B	-	1.0000	042F4201.D		4
43	43	1	M2017-2262-1-A	-	1.0000	043F4301.D		4

Sequence File C:\Chem32\...7_SAMPLES\05-23-17_SAMPLES 2017-05-23 16-06-06\05-23-17_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2017-2262-1-B	-	1.0000	044F4401.D	4
45	45	1	M2017-2263-1-A	-	1.0000	045F4501.D	4
46	46	1	M2017-2263-1-B	-	1.0000	046F4601.D	4
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	M2017-2264-1-A	-	1.0000	049F4901.D	2
50	50	1	M2017-2264-1-B	-	1.0000	050F5001.D	2
51	51	1	M2017-2266-1-A	-	1.0000	051F5101.D	4
52	52	1	M2017-2266-1-B	-	1.0000	052F5201.D	4
53	53	1	M2017-2274-1-A	-	1.0000	053F5301.D	2
54	54	1	M2017-2274-1-B	-	1.0000	054F5401.D	2
55	55	1	M2017-2276-1-A	-	1.0000	055F5501.D	4
56	56	1	M2017-2276-1-B	-	1.0000	056F5601.D	4
57	57	1	M2017-2279-1-A	-	1.0000	057F5701.D	4
58	58	1	M2017-2279-1-B	-	1.0000	058F5801.D	4
59	59	1	M2017-2288-1-A	-	1.0000	059F5901.D	4
60	60	1	M2017-2288-1-B	-	1.0000	060F6001.D	4
61	61	1	M2017-2289-1-A	-	1.0000	061F6101.D	4
62	62	1	M2017-2289-1-B	-	1.0000	062F6201.D	4
63	63	1	M2017-2290-1-A	-	1.0000	063F6301.D	2
64	64	1	M2017-2290-1-B	-	1.0000	064F6401.D	2
65	65	1	M2017-2316-1-A	-	1.0000	065F6501.D	4
66	66	1	M2017-2316-1-B	-	1.0000	066F6601.D	4
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\05-23-17_SAMPLES\05-23-17_SAMPLES 2017-05-23 16-06-06\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