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): 03/22/2017-03/23/2017**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Jul-18	1407031	0.0780	0.0702 - 0.0858	0.0793 g/100cc
					0.0811 g/100cc
					g/100cc
Level 2	Jul-18	1407032	0.2020	0.1818 - 0.2222	0.2098 g/100cc
					0.2113 g/100cc
Multi-Component Mixture		**Exp: Oct 2019**	**Lot #**	FN09231404	OK
Curve Fit:			**Column 1**	1.00000 **Column 2**	0.99982

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	0.0506	0.0538	0.0032	0.0522
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	Jun-20	FN06181501	0.100	0.090 - 0.110	0.0995	0.0998	0.0003	0.0996
0.200	Oct-20	FN07201502	0.200	0.180 - 0.220	0.2000	0.1972	0.0028	0.1986
0.300	Jun-20	FN06051501	0.300	0.270 - 0.330	0.2995	0.2962	0.0033	0.2978
0.400			0.400	0.360 - 0.440			0	#DIV/0!
0.500	Aug-19	FN07031402	0.500	0.450 - 0.550	0.5003	0.5031	0.0028	0.5017

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	Nov-20	FN10281510	0.08000	0.076 - 0.084	0.082 g/100cc

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

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Worklist: 1620

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-1038	1	78739	Alcohol Analysis
M2017-1053	1	78764	Alcohol Analysis
M2017-1054	1	78765	Alcohol Analysis
M2017-1055	1	78766	Alcohol Analysis
M2017-1056	1	78770	Alcohol Analysis
M2017-1057	1	78771	Alcohol Analysis
M2017-1058	1	78772	Alcohol Analysis
M2017-1077	1	78879	Alcohol Analysis
M2017-1095	1	78973	Alcohol Analysis
M2017-1096	1	78977	Alcohol Analysis
M2017-1110	1	79060	Alcohol Analysis
M2017-1115	1	79068	Alcohol Analysis
M2017-1116	1	79069	Alcohol Analysis
M2017-1117	1	79073	Alcohol Analysis
M2017-1118	1	79074	Alcohol Analysis
M2017-1119	1	79075	Alcohol Analysis
M2017-1122	1	79154	Alcohol Analysis
M2017-1148	2	79297	Alcohol Analysis
M2017-1169	1	79405	Alcohol Analysis
M2017-1170	1	79406	Alcohol Analysis
M2017-1171	1	79410	Alcohol Analysis
M2017-1173	1	79420	Alcohol Analysis
M2017-1174	1	79421	Alcohol Analysis

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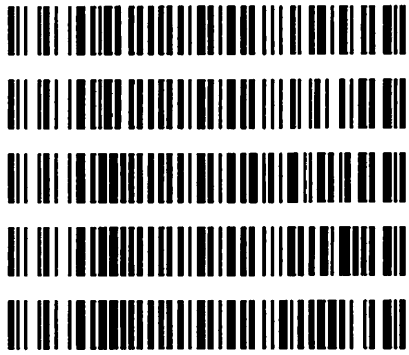
Worklist: 1620

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2017-1188	1	79476	Alcohol Analysis
M2017-1190	1	79497	Alcohol Analysis
P2017-0449	1	77963	Alcohol Analysis
P2017-0501	1	78439	Alcohol Analysis
P2017-0548	1	79040	Alcohol Analysis



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Calibration Table

General Calibration Setting

Calib. Data Modified : Wednesday, March 22, 2017 11:27:59 AM
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

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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	4.44027	1.12606e-2	No	No	1	ethanol
		2	1.00000e-1	9.04249	1.10589e-2				
		3	2.00000e-1	17.89574	1.11758e-2				
		4	3.00000e-1	27.30493	1.09870e-2				
		5	5.00000e-1	44.96452	1.11199e-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
4.282	2	1	5.00000e-2	4.47271	1.11789e-2	No	No	2	ethanol
		2	1.00000e-1	9.08370	1.10087e-2				
		3	2.00000e-1	18.09025	1.10557e-2				
		4	3.00000e-1	27.94878	1.07339e-2				
		5	5.00000e-1	46.74831	1.06956e-2				
4.308	1	1	1.00000	6.49940	1.53860e-1	No	No	1	acetone
4.619	1	1	1.00000	42.17959	2.37081e-2	No	Yes	1	n-propanol
		2	1.00000	43.06885	2.32186e-2				
		3	1.00000	42.11362	2.37453e-2				
		4	1.00000	42.79330	2.33681e-2				
		5	1.00000	42.10326	2.37511e-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
7.553	2	1	1.00000	42.95251	2.32815e-2	No	Yes	2	n-propanol
		2	1.00000	43.51038	2.29830e-2				
		3	1.00000	42.03962	2.37871e-2				
		4	1.00000	42.63439	2.34552e-2				
		5	1.00000	41.51231	2.40892e-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 4.619 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 7.553 min, signal 2
Warning : Curve requires more calibration points. at 2.586 min, signal 1

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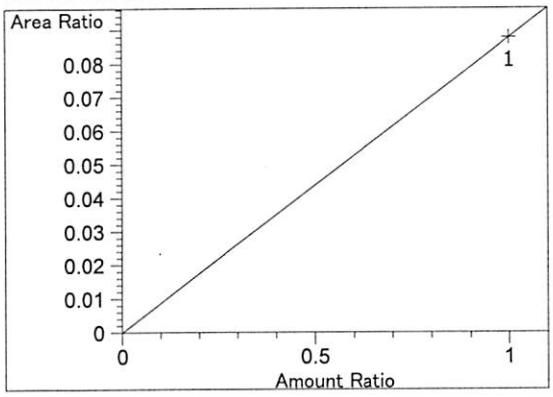
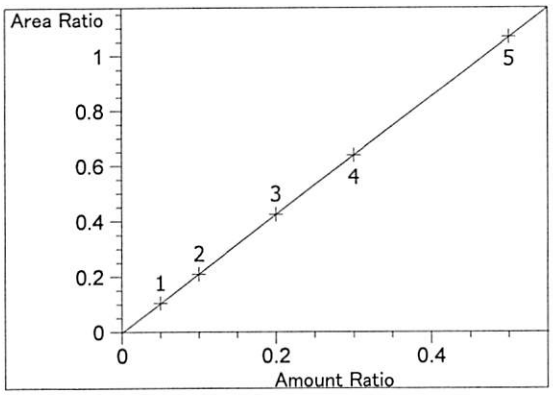
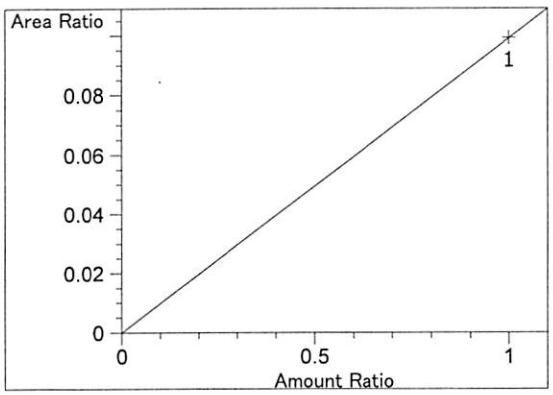
Calibration Curves



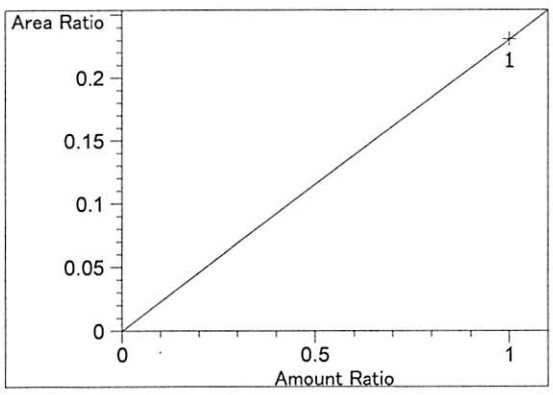
methanol at exp. RT: 2.586
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 8.76418e-2
b: 0.00000
x: Amount Ratio
y: Area Ratio



ethanol at exp. RT: 3.072
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00121
Formula: y = mx + b
m: 2.14080
b: -3.14635e-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: 9.91939e-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: 2.30693e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

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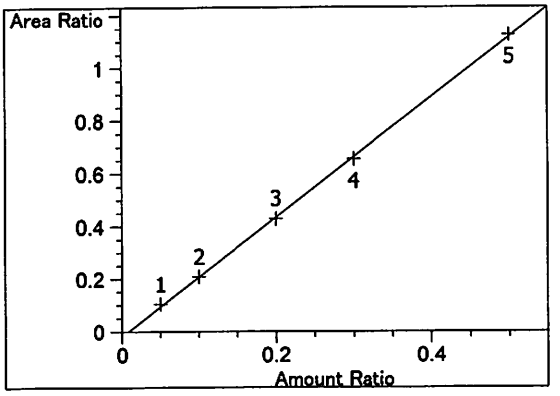
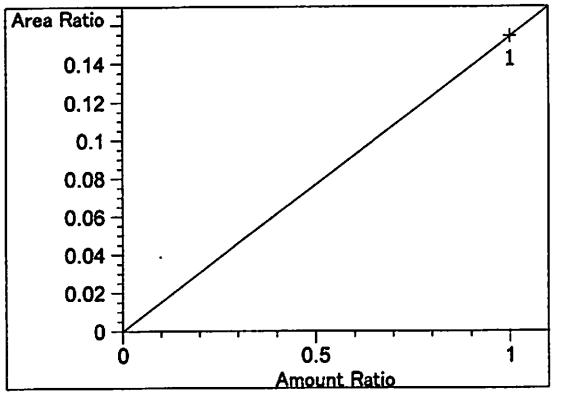
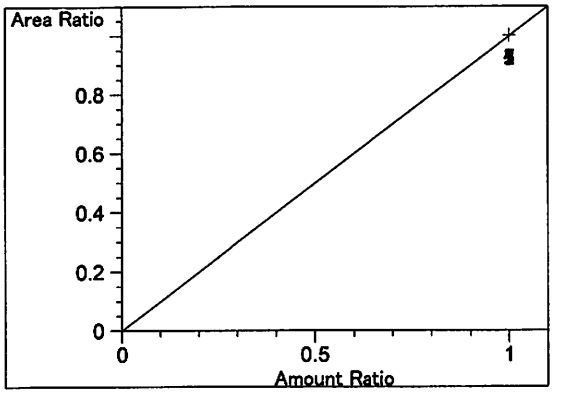


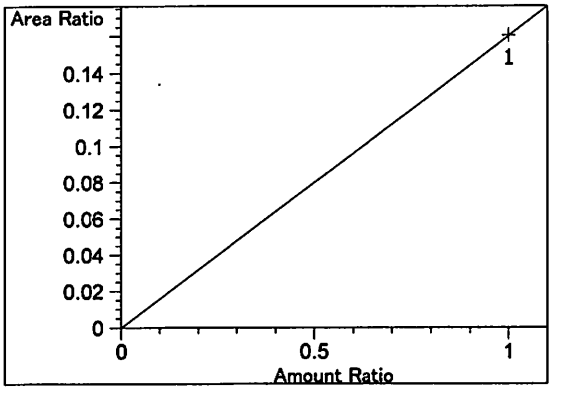
ethanol at exp. RT: 4.282
FID2 B, Back Signal
Correlation: 0.99982
Residual Std. Dev.: 0.00893
Formula: y = mx + b
m: 2.27461
b: -1.81820e-2
x: Amount Ratio
y: Area Ratio



acetone at exp. RT: 4.308
FID1 A, Front Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 1.54089e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



n-propanol at exp. RT: 4.619
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: 1.60480e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio

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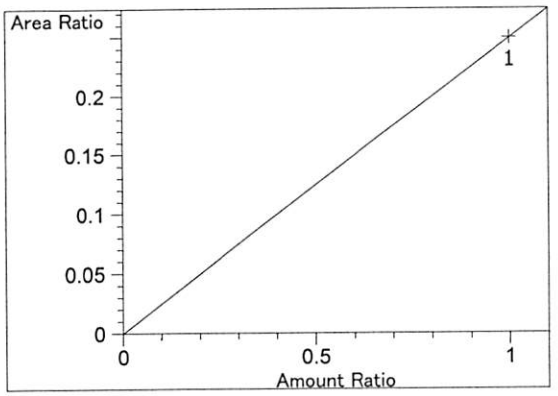
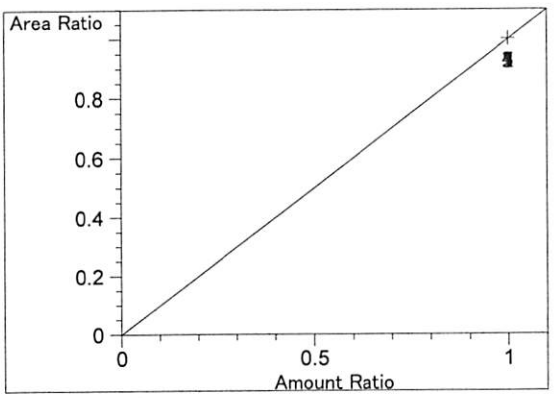


isopropyl alcohol at exp. RT: 4.969
FID2 B, Back Signal
Correlation: 1.00000
Residual Std. Dev.: 0.00000
Formula: y = mx + b
m: 2.49262e-1
b: 0.00000
x: Amount Ratio
y: Area Ratio



n-propanol at exp. RT: 7.553
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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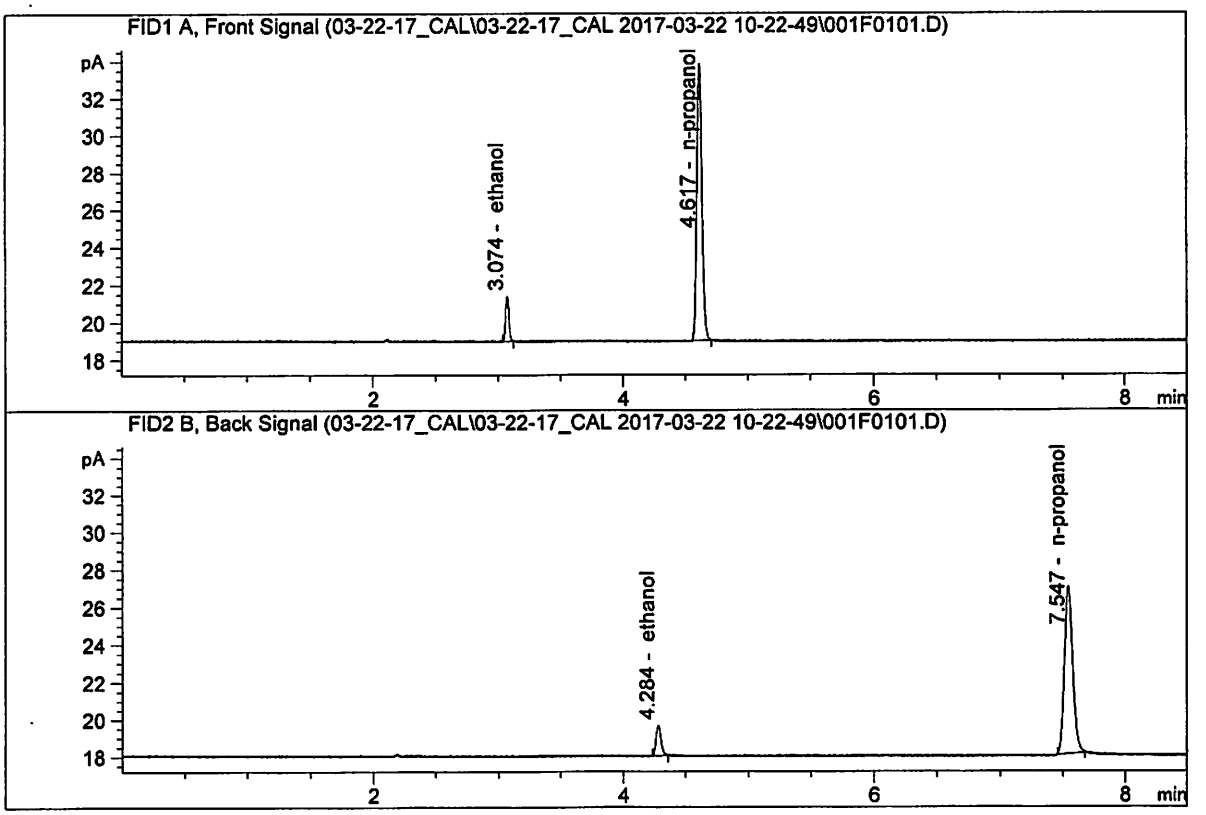
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.050 FN06231406
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	4.44027	0.0506	g/100cc
2.	Ethanol	Column 2:	4.47271	0.0538	g/100cc
3.	n-Propanol	Column 1:	42.17959	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.95251	1.0000	g/100cc

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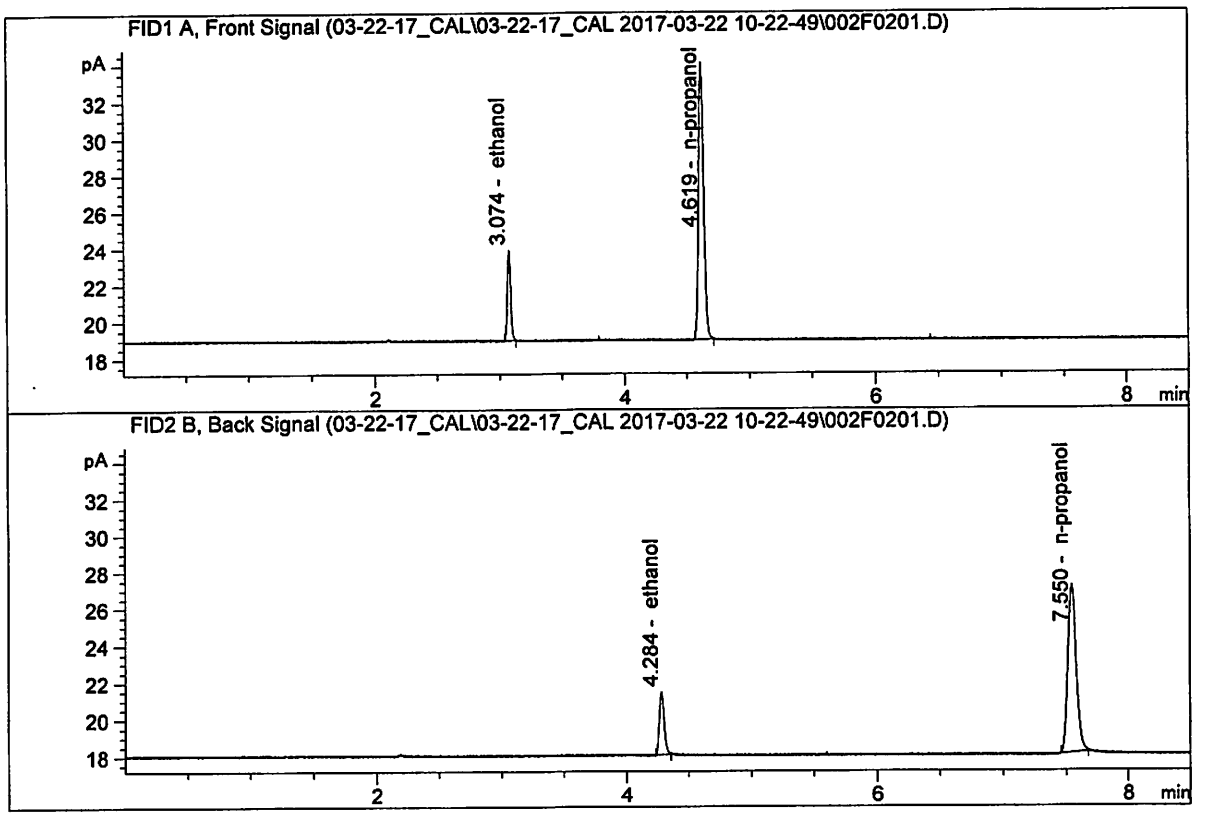
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.100 FN06181501
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	9.04249	0.0995	g/100cc
2.	Ethanol	Column 2:	9.08370	0.0998	g/100cc
3.	n-Propanol	Column 1:	43.06885	1.0000	g/100cc
4.	n-Propanol	Column 2:	43.51038	1.0000	g/100cc

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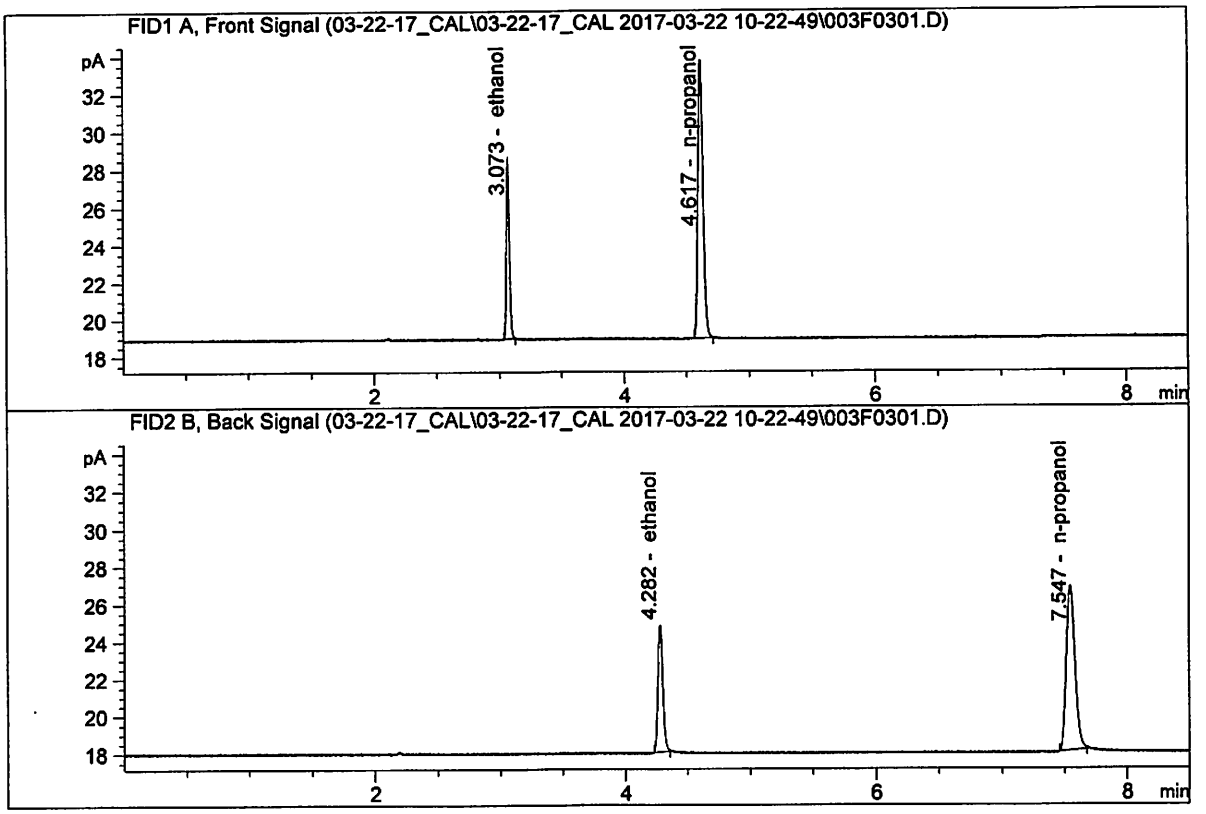
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.200 FN07201502
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	17.89574	0.2000	g/100cc
2.	Ethanol	Column 2:	18.09025	0.1972	g/100cc
3.	n-Propanol	Column 1:	42.11362	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.03962	1.0000	g/100cc

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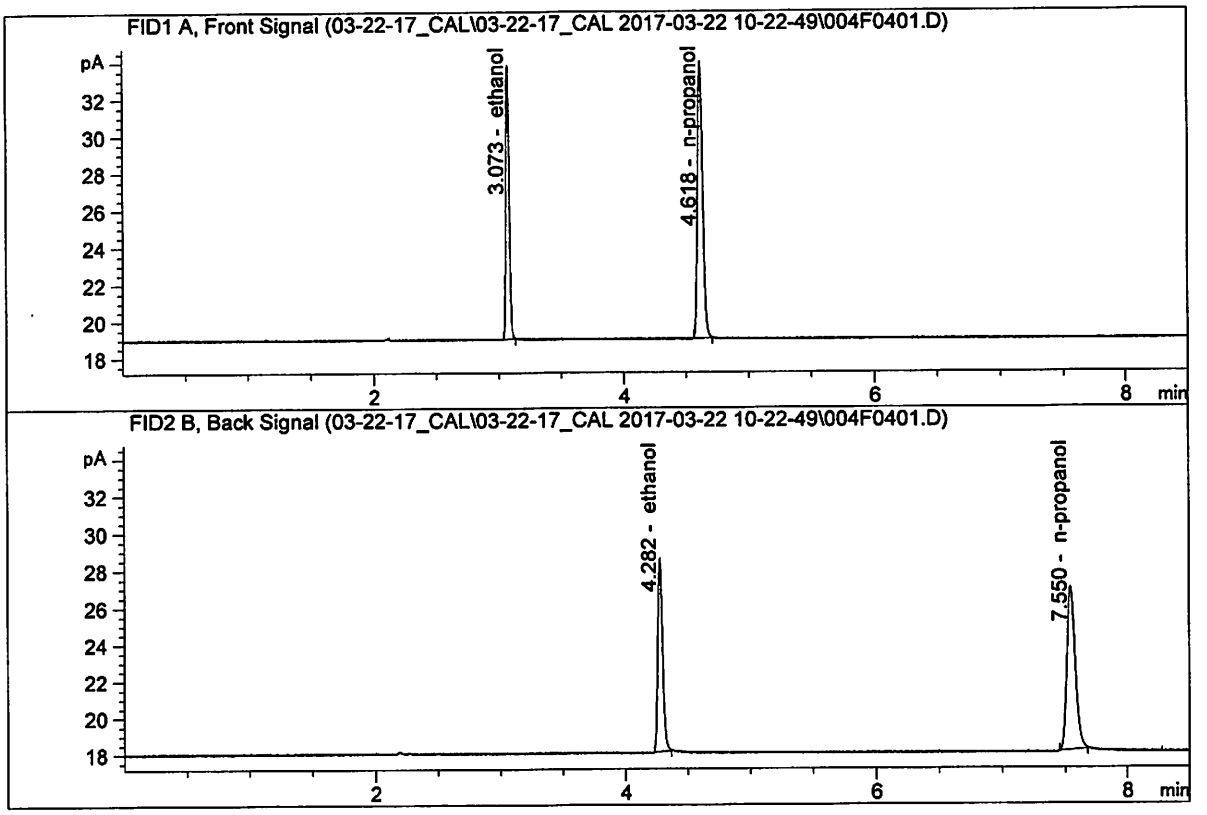
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.300 FN06051501
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	27.30493	0.2995	g/100cc
2.	Ethanol	Column 2:	27.94878	0.2962	g/100cc
3.	n-Propanol	Column 1:	42.79330	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.63439	1.0000	g/100cc

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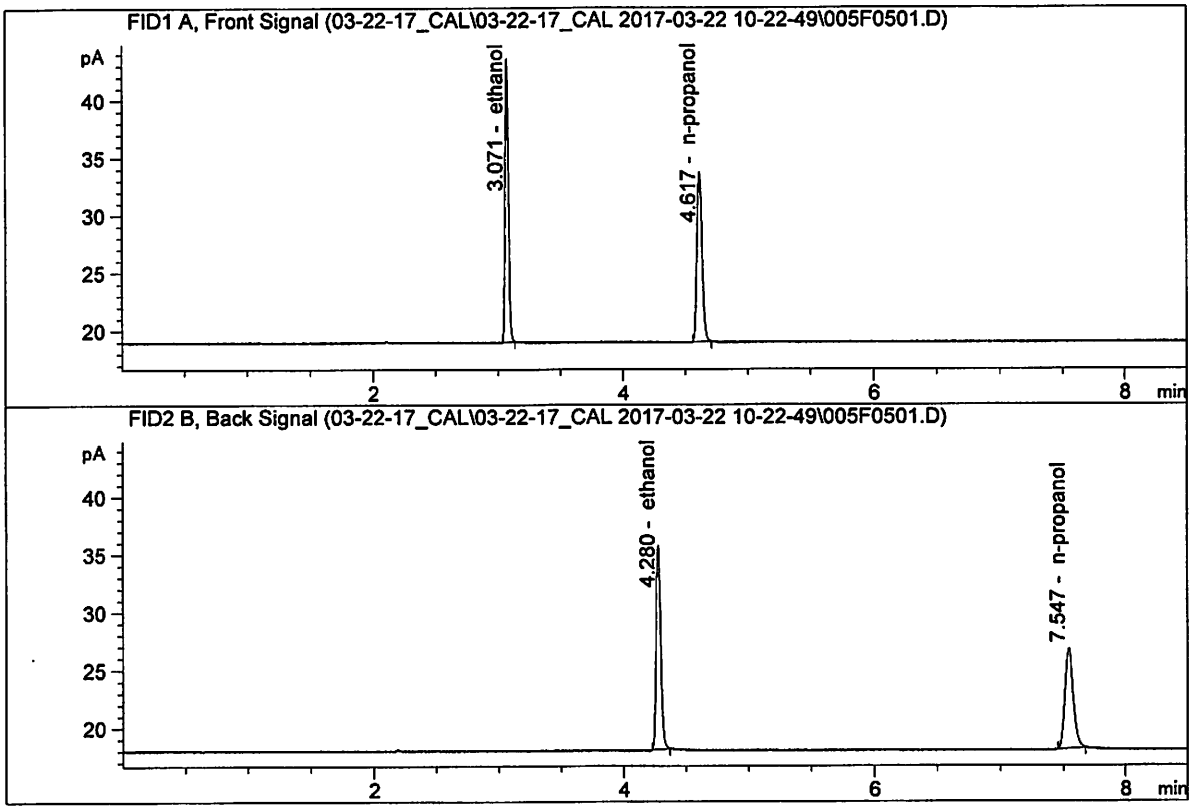
ISP Forensic Services Blood Alcohol Report

Sample Name : 0.500 FN07031402
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	44.96452	0.5003	g/100cc
2.	Ethanol	Column 2:	46.74831	0.5031	g/100cc
3.	n-Propanol	Column 1:	42.10326	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.51231	1.0000	g/100cc

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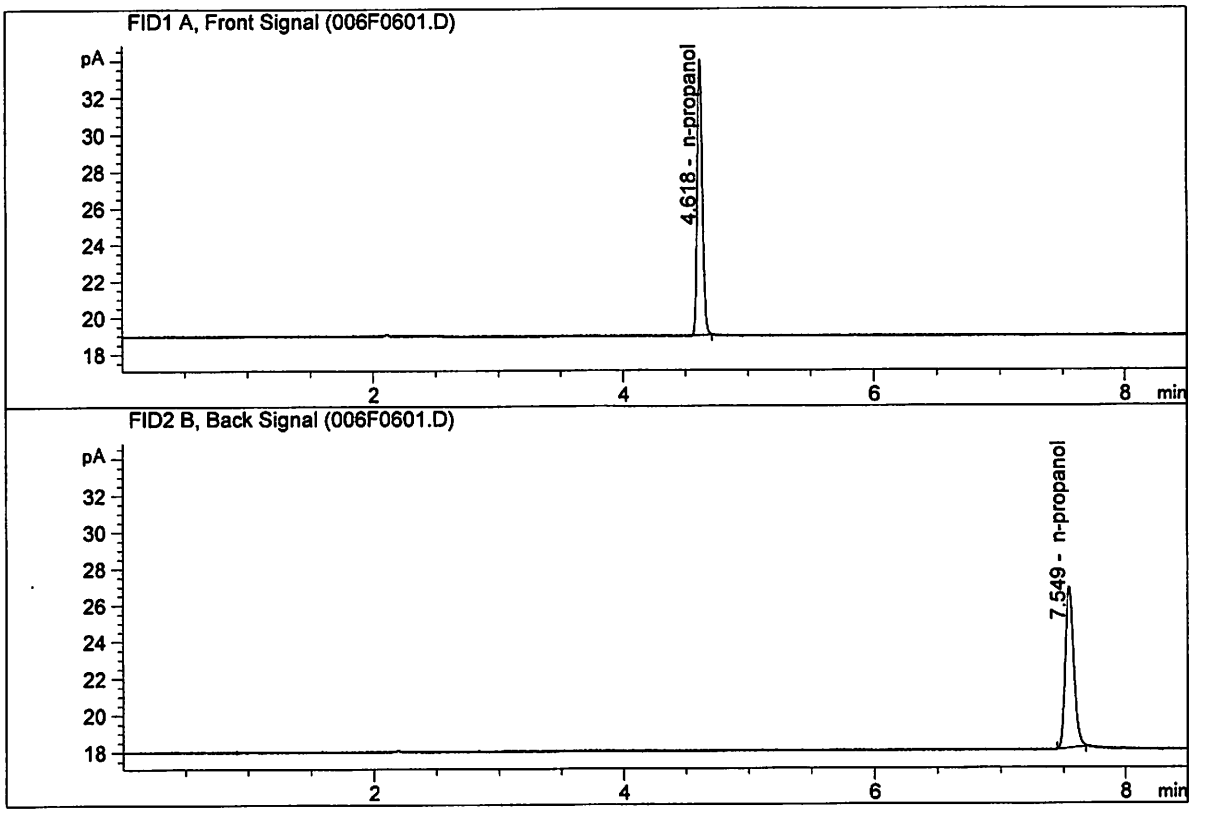
ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STANDARD BLANK
Laboratory : Meridian
Injection Date : Mar 22, 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:	42.90772	1.0000	g/100cc
4.	n-Propanol	Column 2:	42.60557	1.0000	g/100cc

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Sequence File C:\Chem32\1\Data\03-22-17_CAL\03-22-17_CAL 2017-03-22 10-22-49\03-22-17_CAL.S

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

Sequence table: C:\Chem32\1\Data\03-22-17_CAL\03-22-17_CAL 2017-03-22 10-22-49\03-22-17_CAL.S
Data directory path: C:\Chem32\1\Data\03-22-17_CAL\03-22-17_CAL 2017-03-22 10-22-49\
Logbook: C:\Chem32\1\Data\03-22-17_CAL\03-22-17_CAL 2017-03-22 10-22-49\03-22-17_CAL.LOG
Sequence start: 3/22/2017 10:37:25 AM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\03-22-17_CAL\03-22-17_CAL 2017-03-22 10-22-49\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 FN06051501	-	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

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VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 22 Mar 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0783	0.0802	0.0019	0.0792	0.0793	
(g/100cc)	0.0784	0.0806	0.0022	0.0795		

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.

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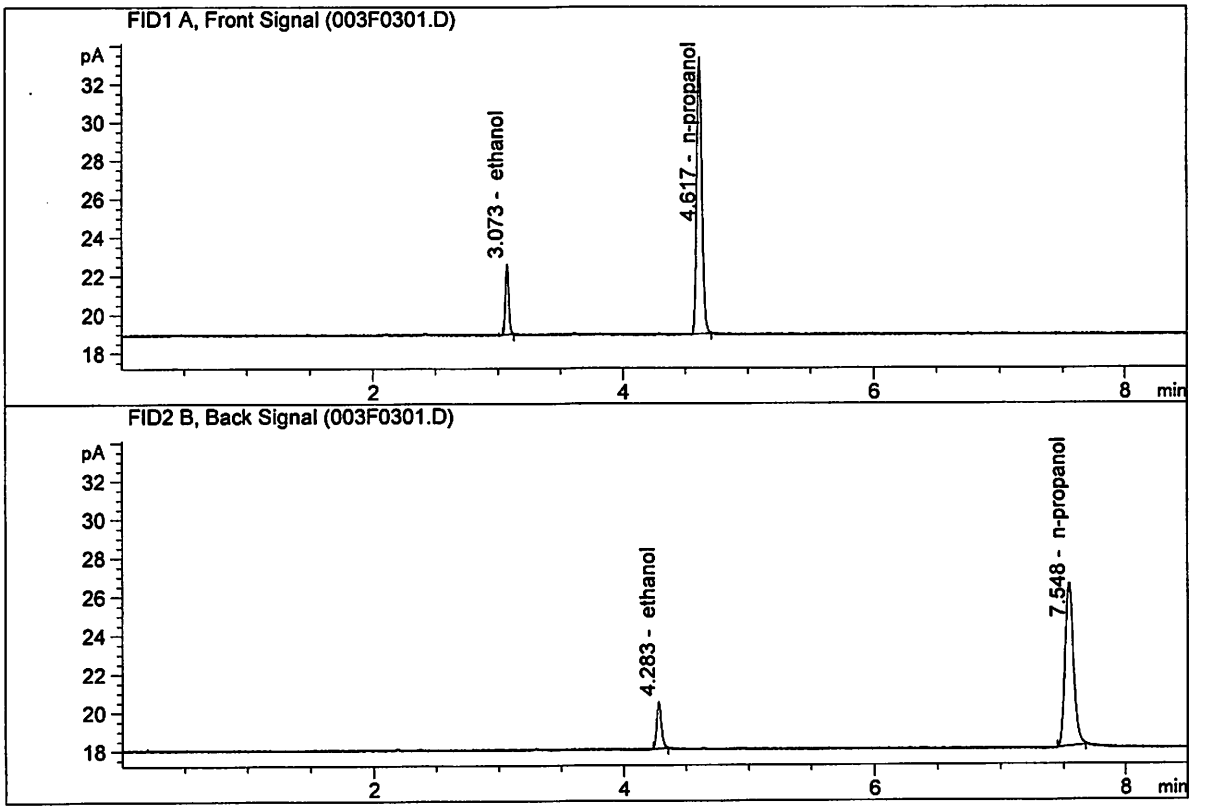
ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.75568	0.0783	g/100cc
2.	Ethanol	Column 2:	6.69796	0.0802	g/100cc
3.	n-Propanol	Column 1:	41.09568	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.78588	1.0000	g/100cc

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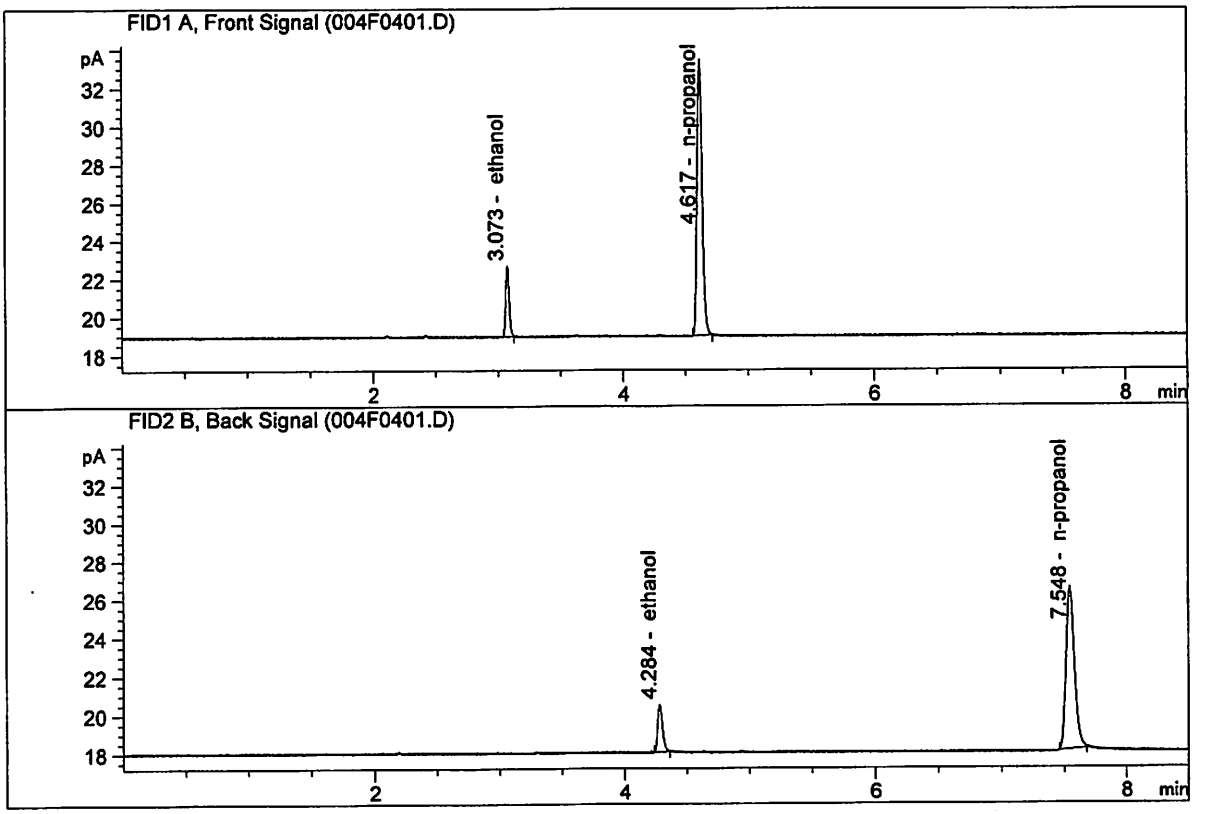
ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.81249	0.0784	g/100cc
2.	Ethanol	Column 2:	6.73674	0.0806	g/100cc
3.	n-Propanol	Column 1:	41.34389	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.80205	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 23 Mar 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0813	0.0839	0.0026	0.0826	0.0811	
(g/100cc)	0.0786	0.0806	0.0020	0.0796		

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

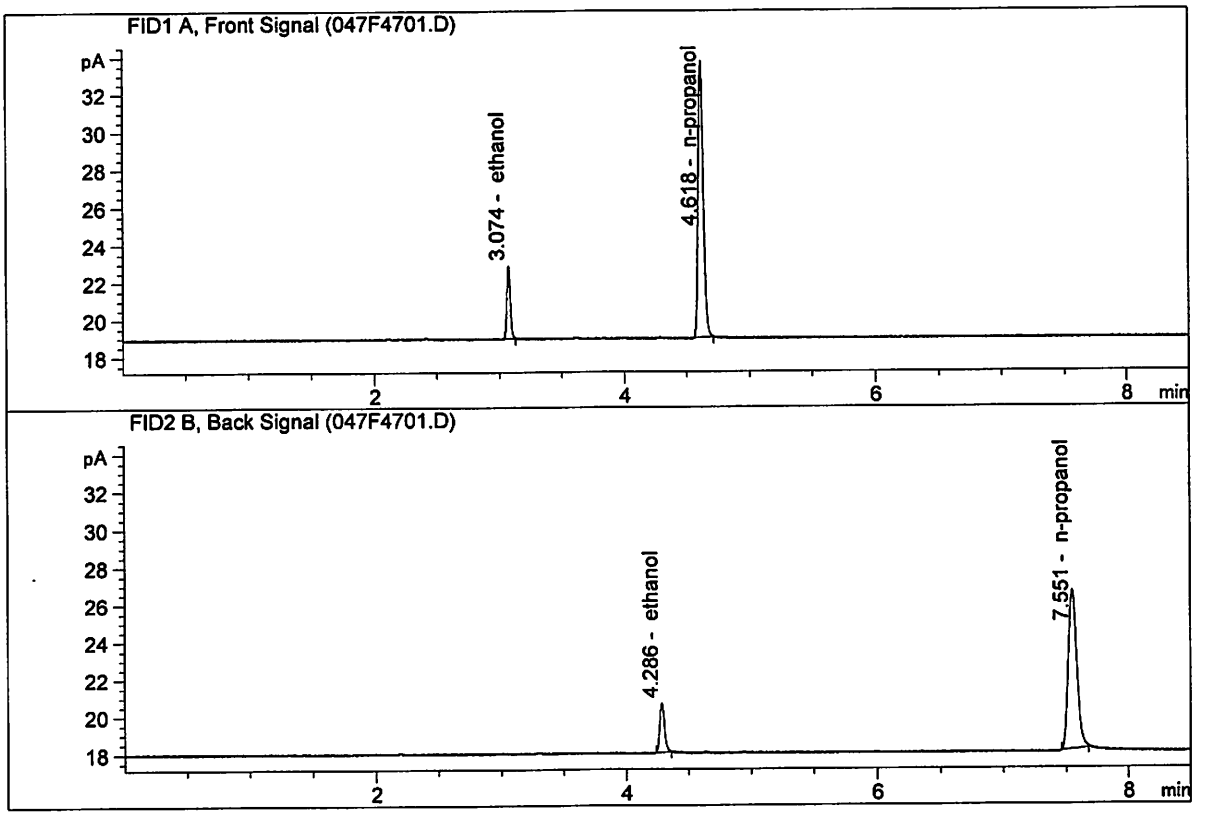
0.081

Calibration and control data are stored centrally.

SG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Mar 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

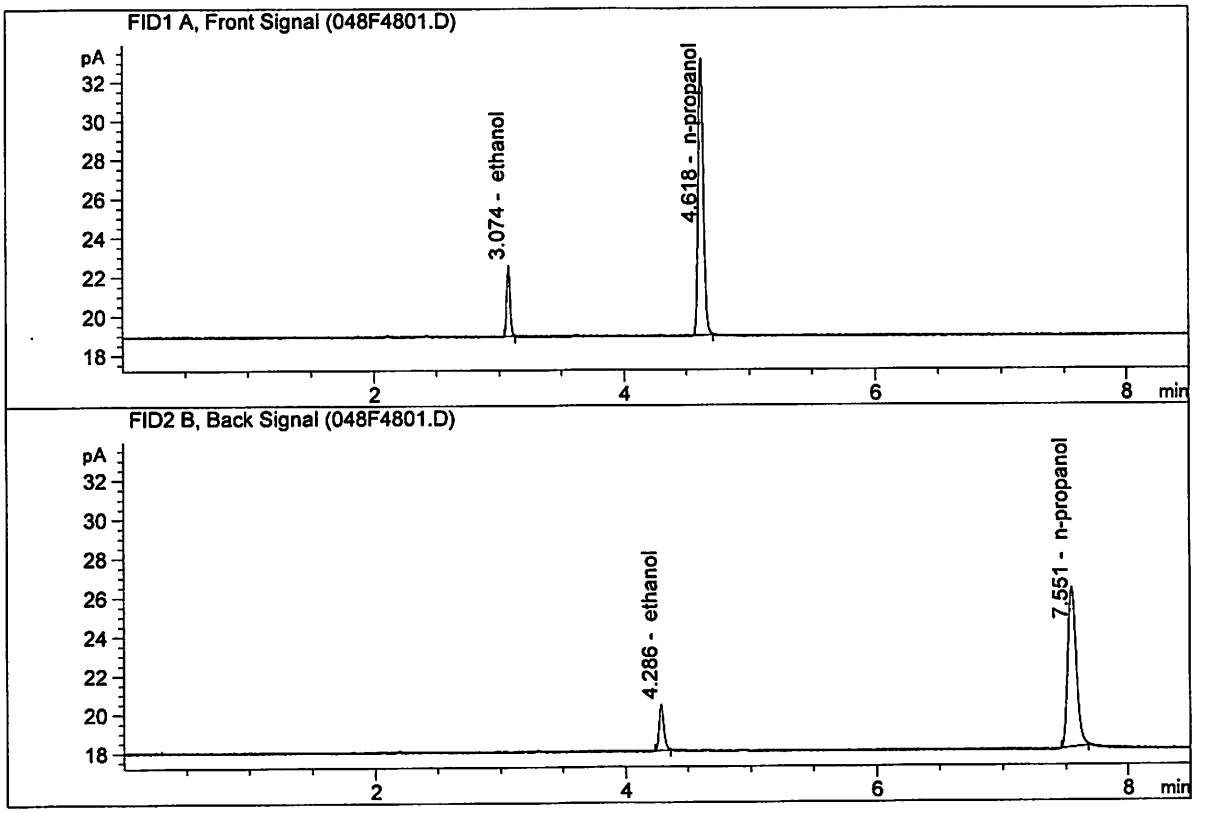


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.18279	0.0813	g/100cc
2.	Ethanol	Column 2:	7.06120	0.0839	g/100cc
3.	n-Propanol	Column 1:	42.00691	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.90062	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Mar 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.70230	0.0786	g/100cc
2.	Ethanol	Column 2:	6.54951	0.0806	g/100cc
3.	n-Propanol	Column 1:	40.59548	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.68166	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 22 Mar 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2081	0.2093	0.0012	0.2087	0.2098	
(g/100cc)	0.2102	0.2118	0.0016	0.2110		

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
0.209	**0.198**	**0.220**	**0.011**

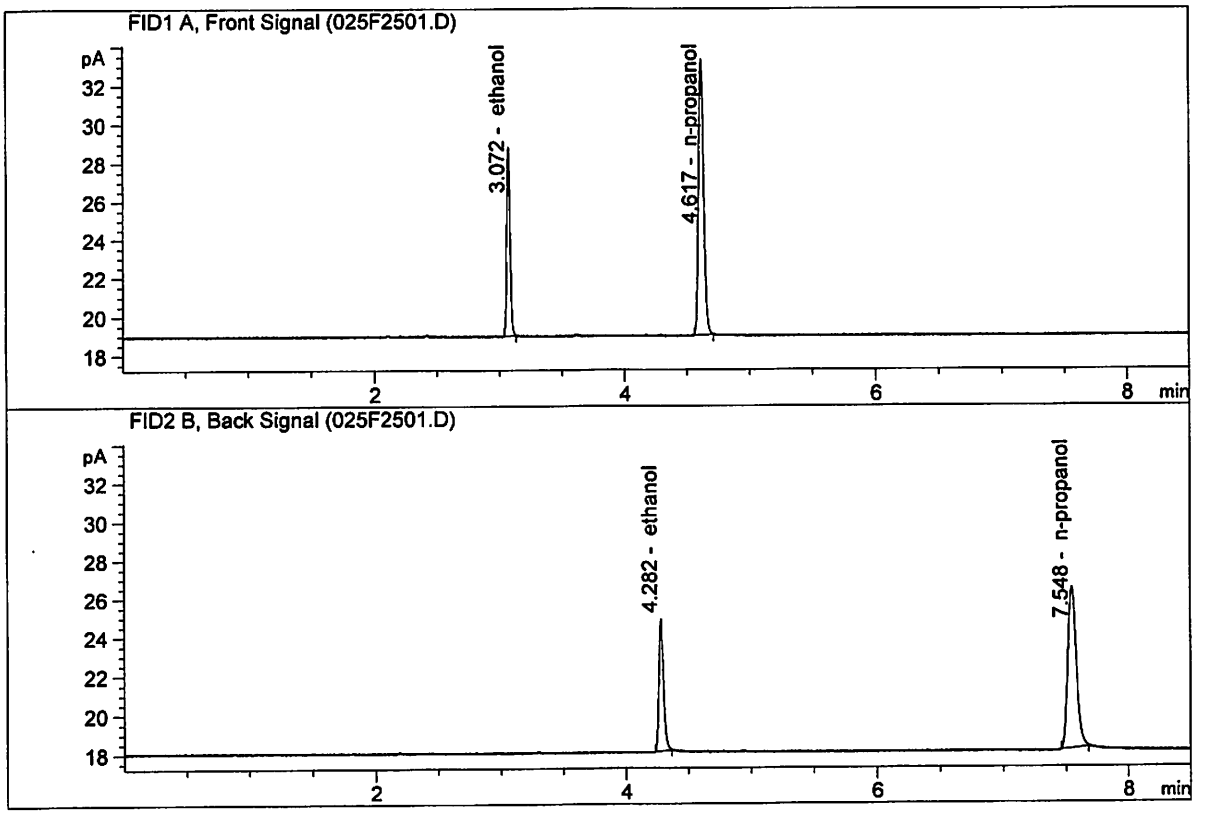
	Reported Result	
	0.209	

Calibration and control data are stored centrally.

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

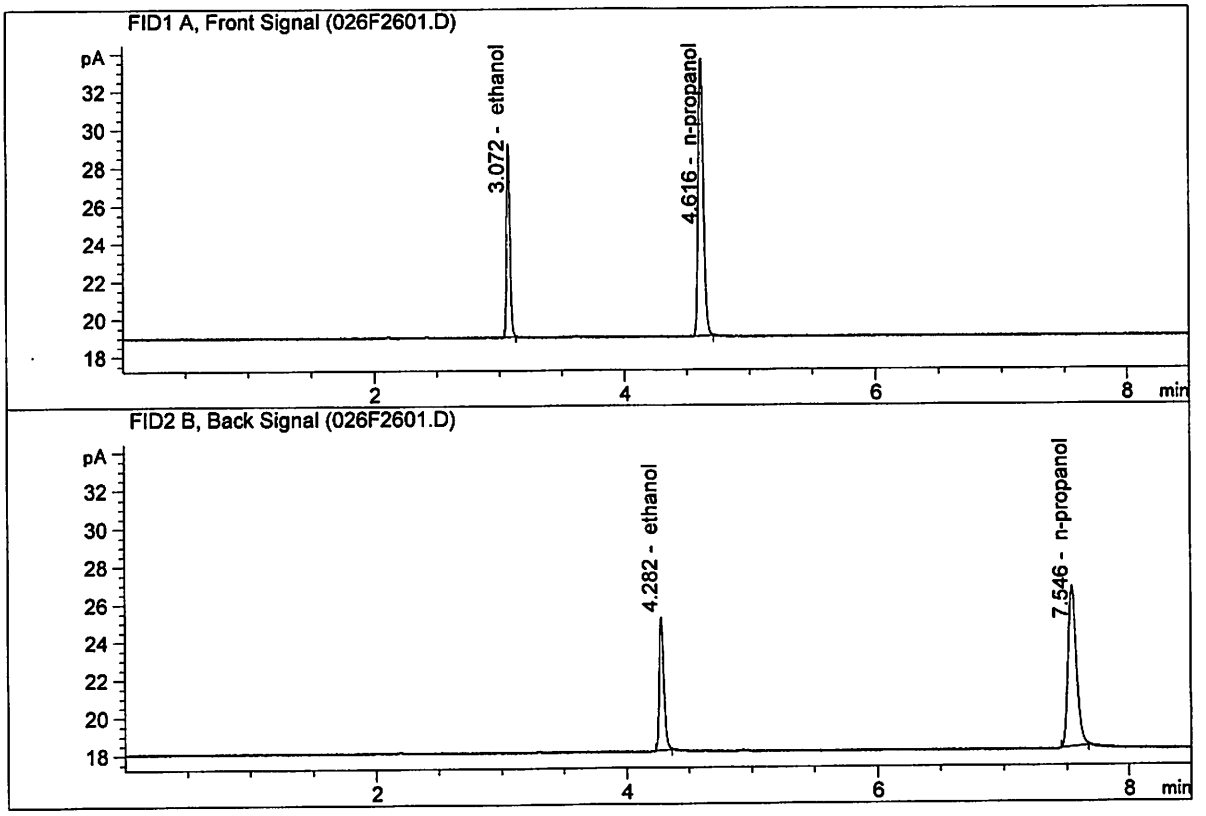


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.05231	0.2081	g/100cc
2.	Ethanol	Column 2:	18.29752	0.2093	g/100cc
3.	n-Propanol	Column 1:	40.81908	1.0000	g/100cc
4.	n-Propanol	Column 2:	39.95520	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.64679	0.2102	g/100cc
2.	Ethanol	Column 2:	18.90981	0.2118	g/100cc
3.	n-Propanol	Column 1:	41.72538	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.79625	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-2 **Analysis Date(s): 23 Mar 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.2134	0.2161	0.0027	0.2147	0.2113	
(g/100cc)	0.2076	0.2084	0.0008	0.2080		

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
0.211	**0.200**	**0.222**	**0.011**

Reported Result

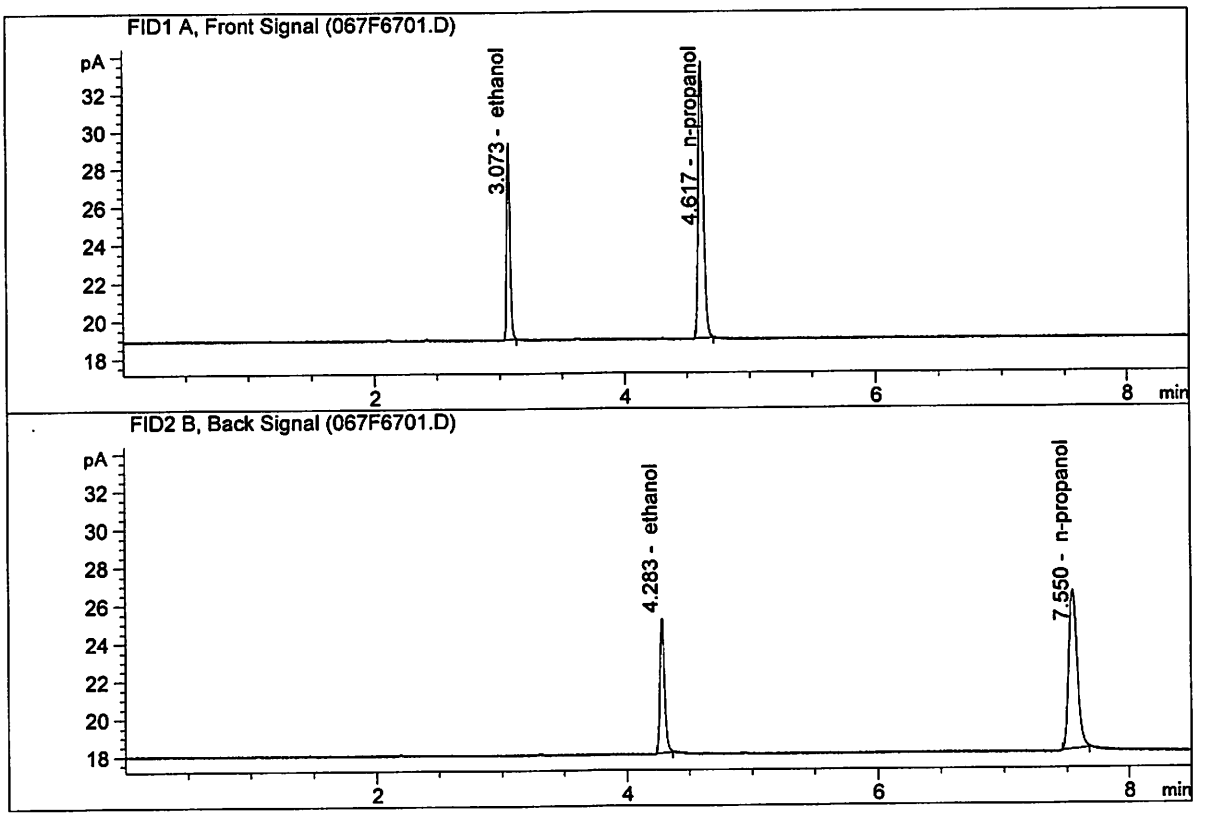
0.211

Calibration and control data are stored centrally.

JF

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-A
Laboratory : Meridian
Injection Date : Mar 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

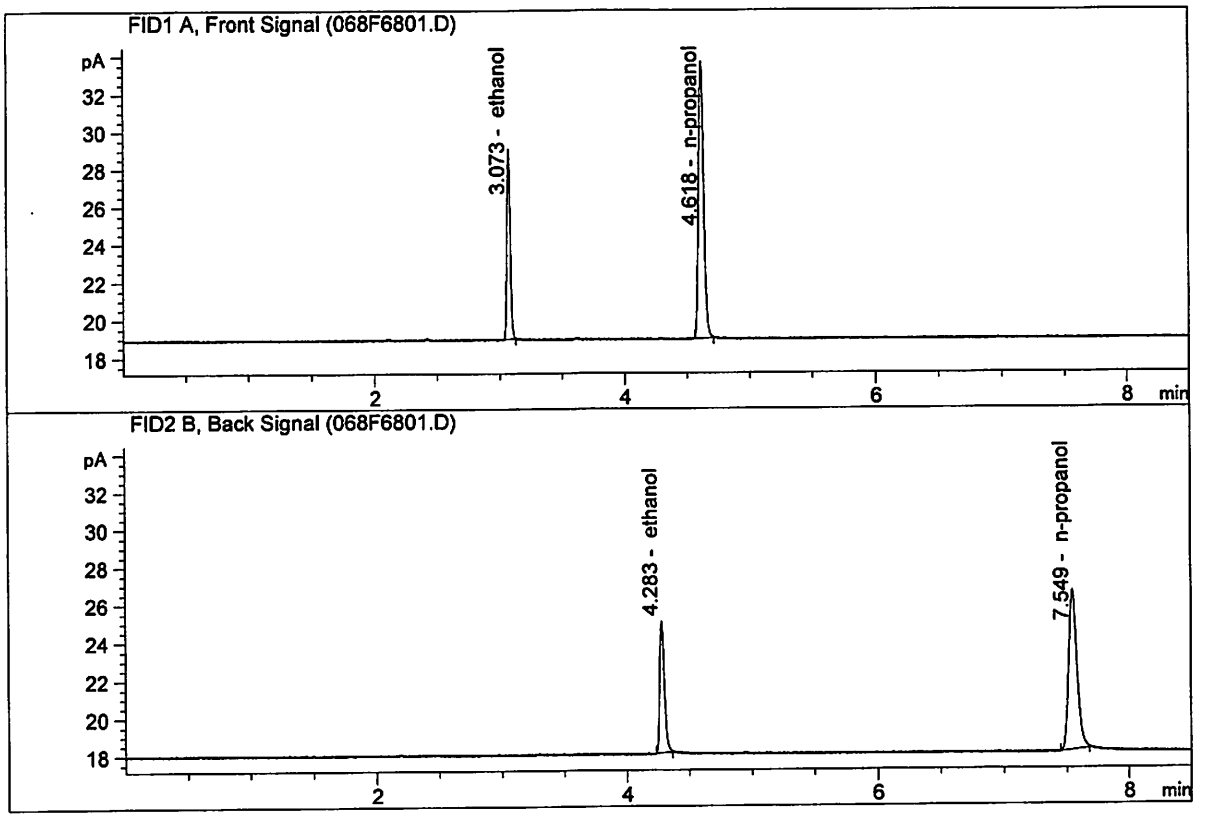


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.87840	0.2134	g/100cc
2.	Ethanol	Column 2:	19.11911	0.2161	g/100cc
3.	n-Propanol	Column 1:	41.61736	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.39738	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-2-B
Laboratory : Meridian
Injection Date : Mar 23, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	18.50614	0.2076	g/100cc
2.	Ethanol	Column 2:	18.68274	0.2084	g/100cc
3.	n-Propanol	Column 1:	41.93214	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.97992	1.0000	g/100cc

JG

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN10281510 **Analysis Date(s): 22 Mar 2017**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0817	0.0833	0.0016	0.0825	0.0824	
(g/100cc)	0.0816	0.0832	0.0016	0.0824		

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
0.082	**0.077**	**0.087**	**0.005**

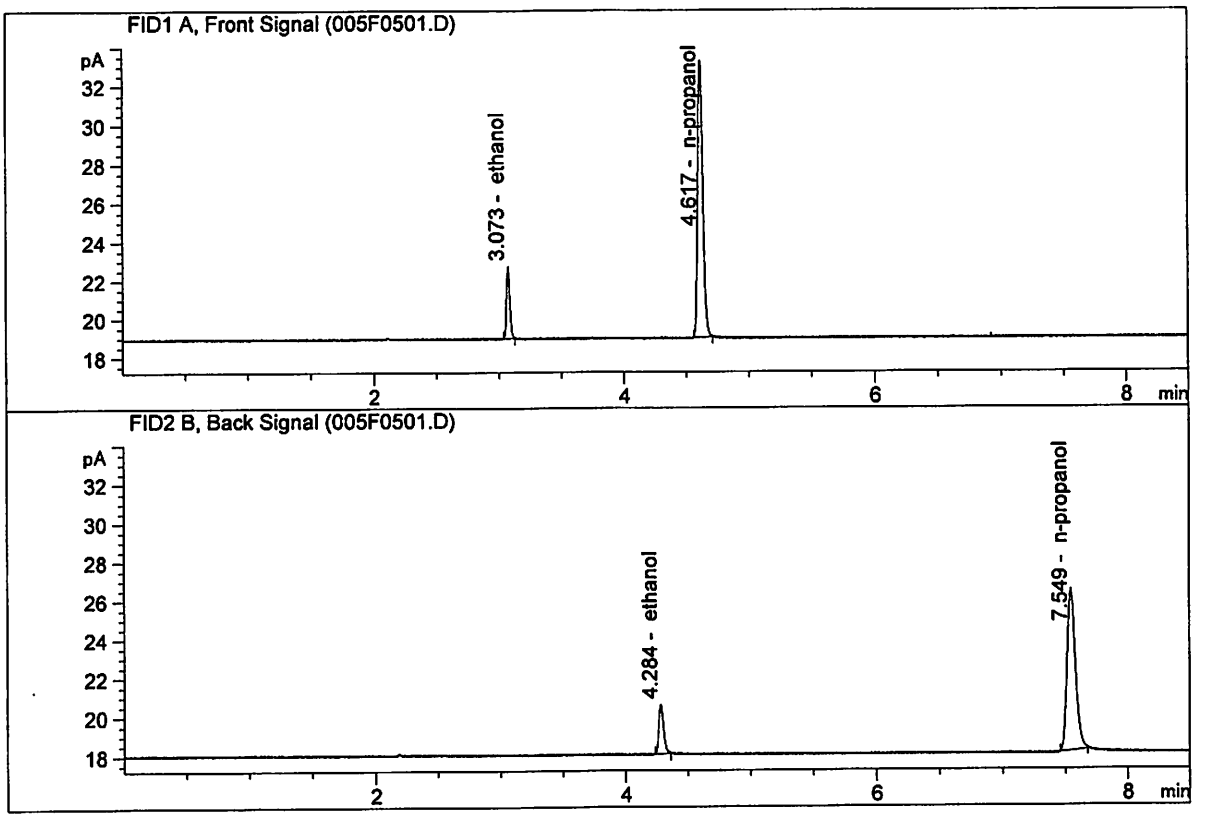
Reported Result

0.082

Calibration and control data are stored centrally.

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-A
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

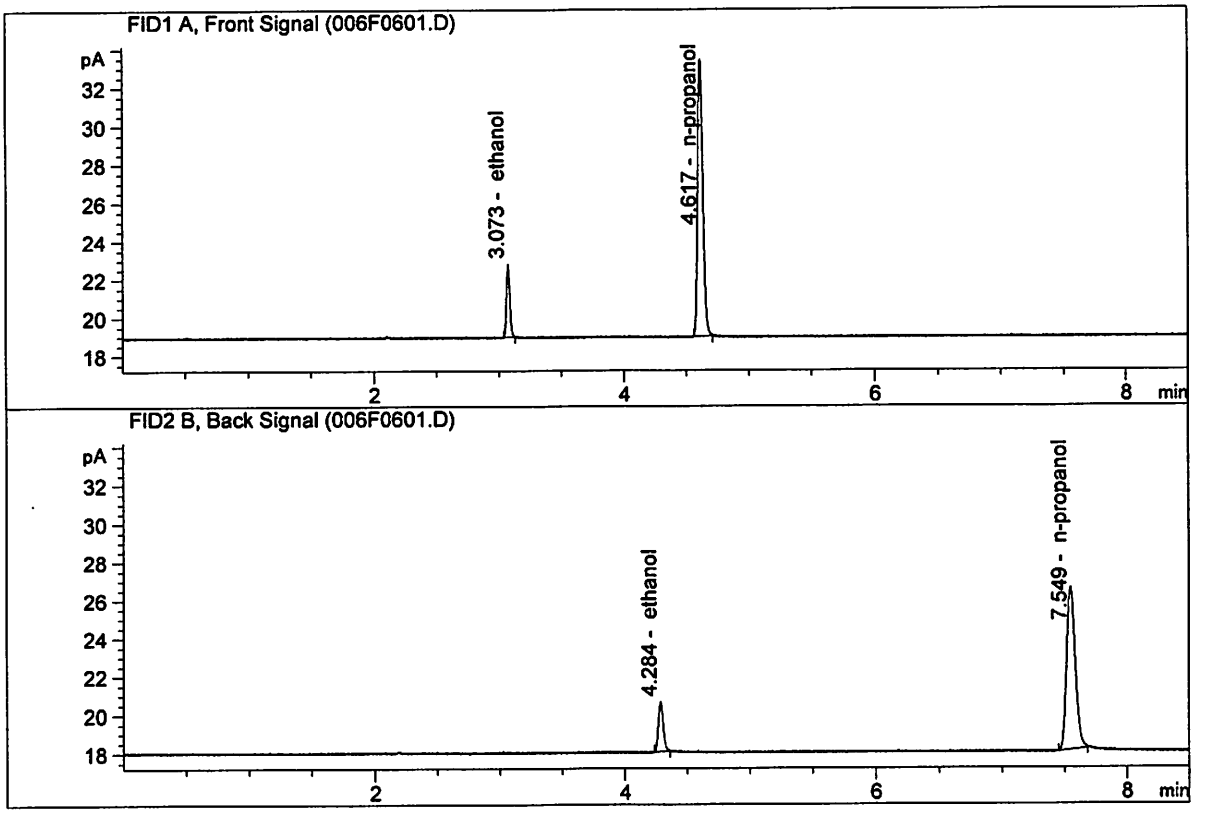


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.99458	0.0817	g/100cc
2.	Ethanol	Column 2:	6.89366	0.0833	g/100cc
3.	n-Propanol	Column 1:	40.73009	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.26515	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN10281510-B
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

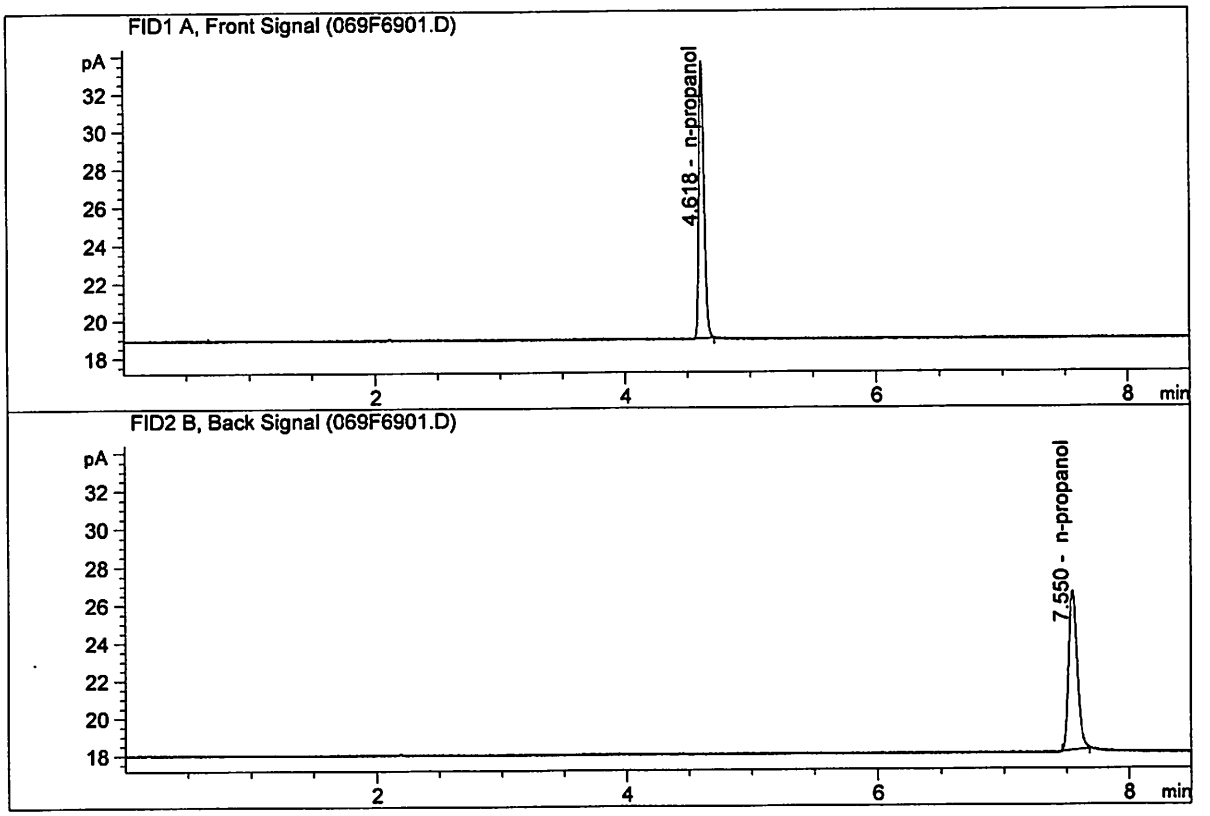


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.07359	0.0816	g/100cc
2.	Ethanol	Column 2:	7.01517	0.0832	g/100cc
3.	n-Propanol	Column 1:	41.21565	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.00610	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

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

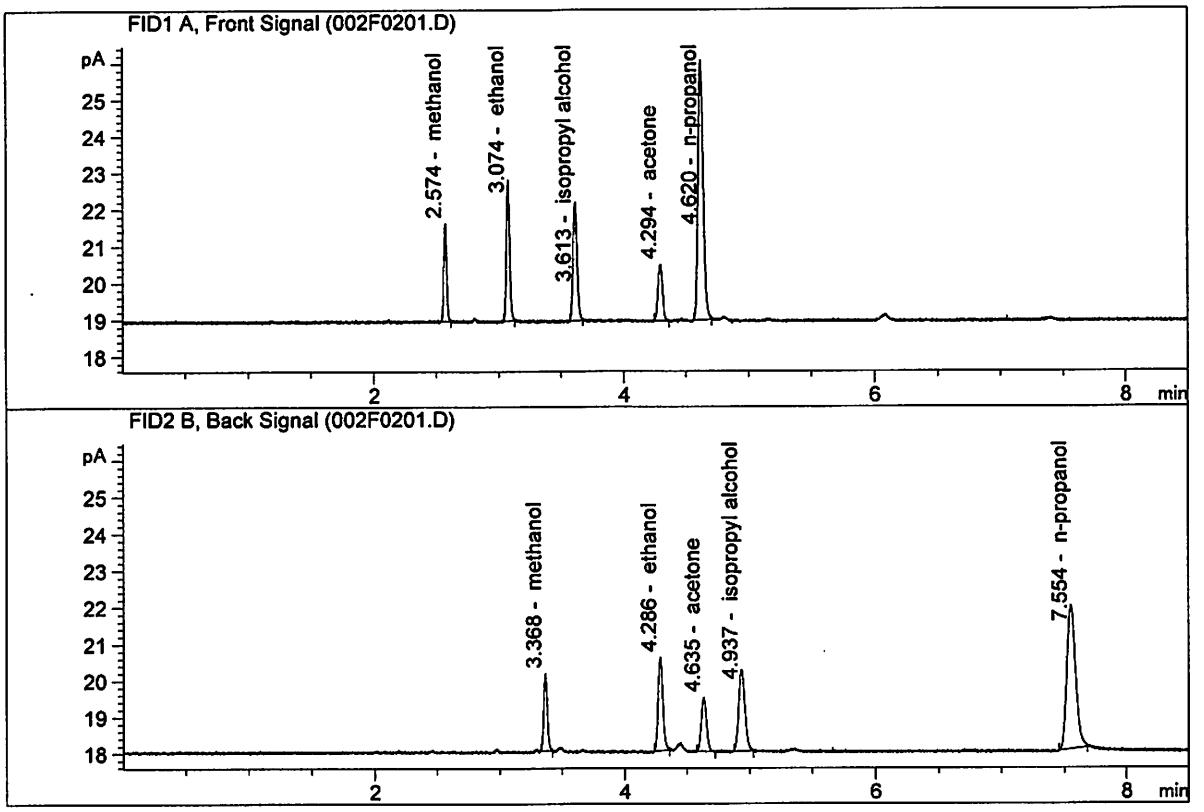


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	41.75019	1.0000	g/100cc
4.	n-Propanol	Column 2:	40.67232	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN09231404
Laboratory : Meridian
Injection Date : Mar 22, 2017
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

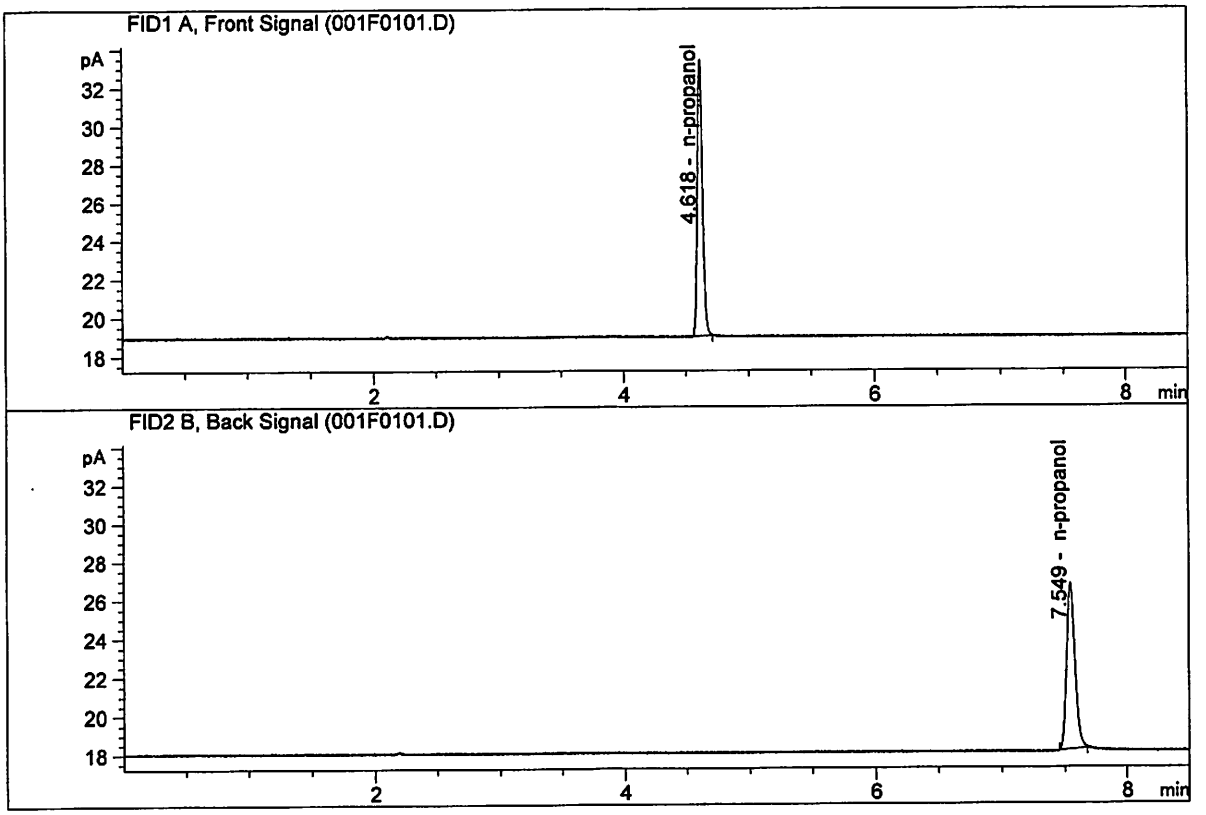


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.87512	0.1618	g/100cc
2.	Ethanol	Column 2:	6.84842	0.1643	g/100cc
3.	n-Propanol	Column 1:	20.02605	1.0000	g/100cc
4.	n-Propanol	Column 2:	19.26696	1.0000	g/100cc

JG

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Mar 22, 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:	41.25090	1.0000	g/100cc
4.	n-Propanol	Column 2:	41.51320	1.0000	g/100cc

JG

Sequence File C:\Chem32\...7_SAMPLES\03-22-17_SAMPLES 2017-03-22 16-05-36\03-22-17_SAMPLES.S

Sample Summary

Sequence table: C:\Chem32\1\Data\03-01-17_SAMPLES\03-22-17_SAMPLES 2017-03-22 16-05-36\03 22-17_SAMPLES.S
Data directory path: C:\Chem32\1\Data\03-01-17_SAMPLES\03-22-17_SAMPLES 2017-03-22 16-05-36\
Logbook: C:\Chem32\1\Data\03-01-17_SAMPLES\03-22-17_SAMPLES 2017-03-22 16-05-36\03 22-17_SAMPLES.LOG
Sequence start: 3/22/2017 4:20:28 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\03-01-17_SAMPLES\03-22-17_SAMPLES 2017-03-22 16-05-36 \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	M2017-1038-1-A	-	1.0000	007F0701.D		4
8	8	1	M2017-1038-1-B	-	1.0000	008F0801.D		4
9	9	1	M2017-1053-1-A	-	1.0000	009F0901.D		4
10	10	1	M2017-1053-1-B	-	1.0000	010F1001.D		4
11	11	1	M2017-1054-1-A	-	1.0000	011F1101.D		4
12	12	1	M2017-1054-1-B	-	1.0000	012F1201.D		4
13	13	1	M2017-1055-1-A	-	1.0000	013F1301.D		4
14	14	1	M2017-1055-1-B	-	1.0000	014F1401.D		4
15	15	1	M2017-1056-1-A	-	1.0000	015F1501.D		4
16	16	1	M2017-1056-1-B	-	1.0000	016F1601.D		4
17	17	1	M2017-1057-1-A	-	1.0000	017F1701.D		4
18	18	1	M2017-1057-1-B	-	1.0000	018F1801.D		4
19	19	1	M2017-1058-1-A	-	1.0000	019F1901.D		2
20	20	1	M2017-1058-1-B	-	1.0000	020F2001.D		2
21	21	1	M2017-1077-1-A	-	1.0000	021F2101.D		4
22	22	1	M2017-1077-1-B	-	1.0000	022F2201.D		4
23	23	1	M2017-1095-1-A	-	1.0000	023F2301.D		2
24	24	1	M2017-1095-1-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	M2017-1096-1-A	-	1.0000	027F2701.D		2
28	28	1	M2017-1096-1-B	-	1.0000	028F2801.D		2
29	29	1	M2017-1110-1-A	-	1.0000	029F2901.D		6
30	30	1	M2017-1110-1-B	-	1.0000	030F3001.D		6
31	31	1	M2017-1115-1-A	-	1.0000	031F3101.D		2
32	32	1	M2017-1115-1-B	-	1.0000	032F3201.D		2
33	33	1	M2017-1116-1-A	-	1.0000	033F3301.D		2
34	34	1	M2017-1116-1-B	-	1.0000	034F3401.D		2
35	35	1	M2017-1117-1-A	-	1.0000	035F3501.D		4
36	36	1	M2017-1117-1-B	-	1.0000	036F3601.D		4
37	37	1	M2017-1118-1-A	-	1.0000	037F3701.D		4
38	38	1	M2017-1118-1-B	-	1.0000	038F3801.D		4
39	39	1	M2017-1119-1-A	-	1.0000	039F3901.D		4
40	40	1	M2017-1119-1-B	-	1.0000	040F4001.D		4
41	41	1	M2017-1122-1-A	-	1.0000	041F4101.D		2
42	42	1	M2017-1122-1-B	-	1.0000	042F4201.D		2
43	43	1	M2017-1148-1-A	-	1.0000	043F4301.D		2

Sequence File C:\Chem32\...7_SAMPLES\03-22-17_SAMPLES 2017-03-22 16-05-36\03-22-17_SAMPLES.S

Run #	Location #	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal # Cmp
44	44	1	M2017-1148-1-B	-	1.0000	044F4401.D	2
45	45	1	M2017-1169-1-A	-	1.0000	045F4501.D	4
46	46	1	M2017-1169-1-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	M2017-1170-1-A	-	1.0000	049F4901.D	4
50	50	1	M2017-1170-1-B	-	1.0000	050F5001.D	4
51	51	1	M2017-1171-1-A	-	1.0000	051F5101.D	4
52	52	1	M2017-1171-1-B	-	1.0000	052F5201.D	4
53	53	1	M2017-1173-1-A	-	1.0000	053F5301.D	4
54	54	1	M2017-1173-1-B	-	1.0000	054F5401.D	4
55	55	1	M2017-1174-1-A	-	1.0000	055F5501.D	4
56	56	1	M2017-1174-1-B	-	1.0000	056F5601.D	4
57	57	1	M2017-1188-1-A	-	1.0000	057F5701.D	4
58	58	1	M2017-1188-1-B	-	1.0000	058F5801.D	4
59	59	1	M2017-1190-1-A	-	1.0000	059F5901.D	4
60	60	1	M2017-1190-1-B	-	1.0000	060F6001.D	4
61	61	1	P2017-0449-1-A	-	1.0000	061F6101.D	4
62	62	1	P2017-0449-1-B	-	1.0000	062F6201.D	4
63	63	1	P2017-0501-1-A	-	1.0000	063F6301.D	4
64	64	1	P2017-0501-1-B	-	1.0000	064F6401.D	4
65	65	1	P2017-0548-1-A	-	1.0000	065F6501.D	4
66	66	1	P2017-0548-1-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\03-01-17_SAMPLES\03-22-17_SAMPLES 2017-03-22 16-05-36\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