Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB 503A Liquid Processor/Dilutor Serial Number: MD96BC1382/MD94AM10010

Run Date(s): 9/10/15-9/11/15

Volatiles Quality Assurance Controls **calibration: 9/3/15**

Control level	Expiration	Lot #	Target Value	Acceptable Range	Overall Results
Level 1	Dec-16	1212090	0.0773	0.0696 - 0.0850	0.0764 g/100cc
					0.0802 g/100cc
					g/100cc
Level 2	Jan-17	1212091	0.2020	0.1818 - 0.2222	0.2004 g/100cc
					g/100cc
					g/100cc
Multi-Component mixture:		**Exp date: Jan 2016**	**Lot #**	FN012111-01	OK
Curve Fit:			**Column 1** 0.99990	**Column2**	0.99993

Ethanol Calibration Reference Material								
Calibrator level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Column 1**	**Column 2**	**Precision**	**Mean**
0.050	Jan-17	FN010912-01	0.050	0.045 - 0.055	0.0512	0.0484	0.0028	0.0498
0.080			0.080	0.072 - 0.088			0	#DIV/0!
0.100	May-17	FN050312-01	0.100	0.090 - 0.110	0.1055	0.1027	0.0028	0.1041
0.200			0.200	0.180 - 0.220			0	#DIV/0!
0.300	Dec-15	FN121510-01	0.300	0.270 - 0.330	0.3155	0.3144	0.0011	0.3149
0.400	Jan-17	FN012712-01	0.400	0.360 - 0.440	0.4054	0.4058	0.0004	0.4056
0.500	Nov-15	FN102710-01	0.500	0.450 - 0.550	0.4946	0.4965	0.0019	0.4955

Aqueous Controls					
Control level	**Expiration**	**Cerilliant Lot #**	**Target Value**	**Acceptable Range**	**Overall Results**
0.080	Jan-17	FN011712-02	0.08000	0.076 - 0.084	0.078 g/100cc

Issued: 4/22/2015

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

Volatiles QA/QC data spreadsheet Rev 5

Issuing Authority: Quality Manager

NB

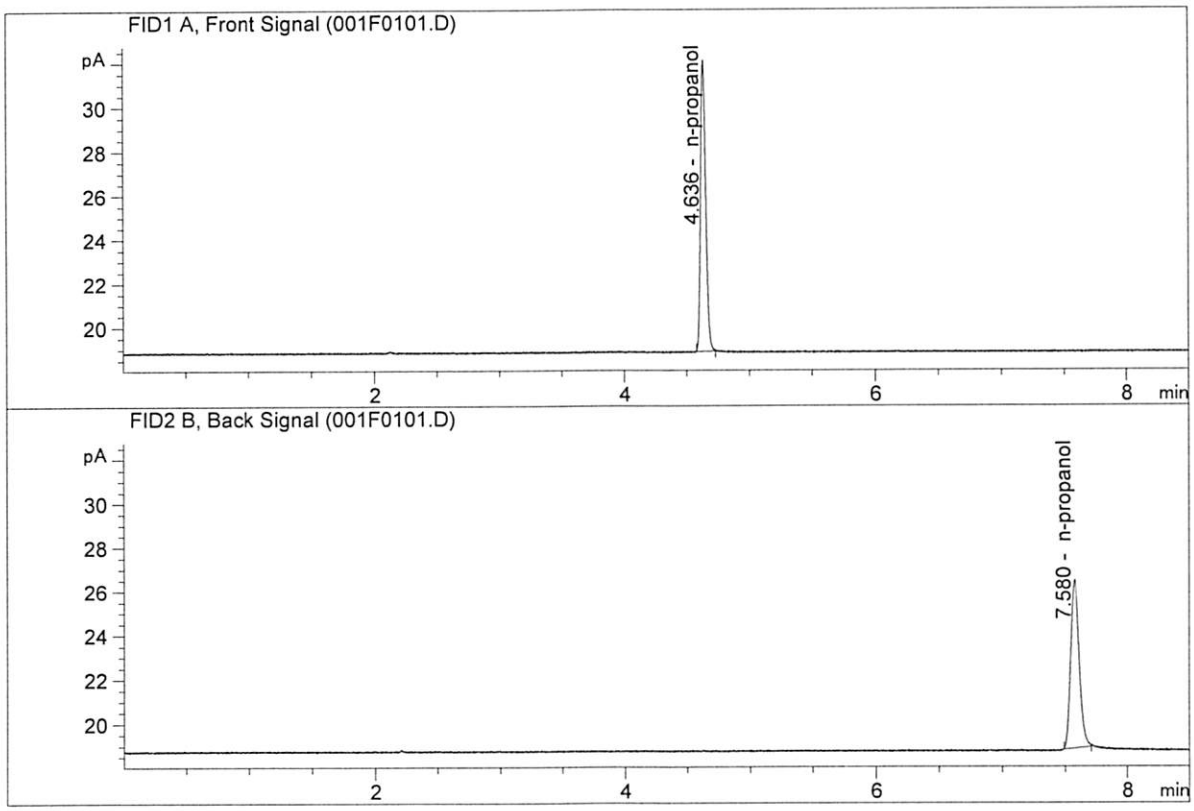
Worklist: 830

LAB_CASE	ITEM	TASK_ID	DESCRIPTION
M2015-3087	1	40304	Alcohol Analysis
M2015-3093	1	40325	Alcohol Analysis
M2015-3104	1	40376	Alcohol Analysis
M2015-3122	1	40471	Alcohol Analysis
M2015-3126	1	40494	Alcohol Analysis
M2015-3132	1	40507	Alcohol Analysis
M2015-3137	1	40541	Alcohol Analysis
M2015-3138	1	40569	Alcohol Analysis
M2015-3141	1	40585	Alcohol Analysis
M2015-3148	1	40621	Alcohol Analysis
M2015-3149	1	40622	Alcohol Analysis
M2015-3161	1	40681	Alcohol Analysis
M2015-3170	1	40715	Alcohol Analysis
M2015-3172	1	40718	Alcohol Analysis
M2015-3177	1	40724	Alcohol Analysis
M2015-3178	1	40728	Alcohol Analysis
M2015-3179	1	40729	Alcohol Analysis
M2015-3180	1	40733	Alcohol Analysis
M2015-3193	1	40778	Alcohol Analysis

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK 1
Laboratory : Meridian
Injection Date : Sep 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

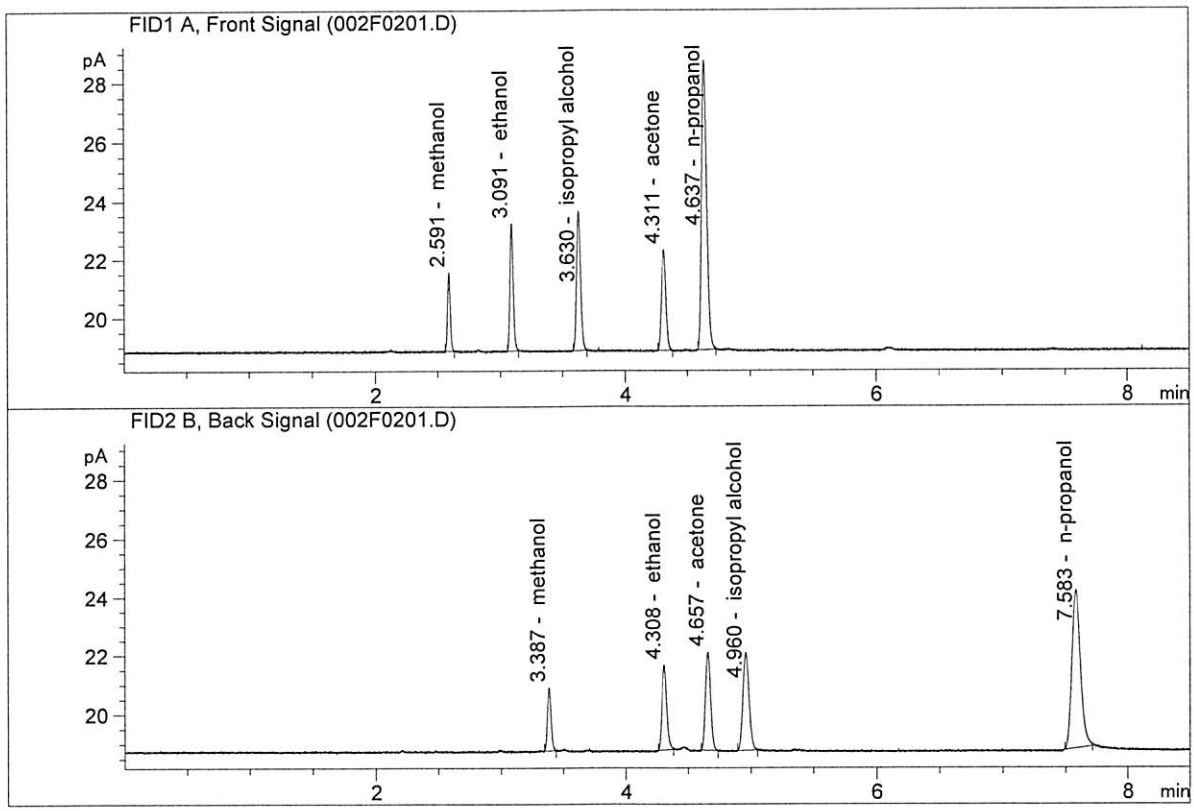


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	37.90956	1.0000	g/100cc
4.	n-Propanol	Column 2:	37.01530	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : MIX VOL FN012111-01
Laboratory : Meridian
Injection Date : Sep 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	7.91765	0.1317	g/100cc
2.	Ethanol	Column 2:	7.78353	0.1291	g/100cc
3.	n-Propanol	Column 1:	28.03623	1.0000	g/100cc
4.	n-Propanol	Column 2:	26.50699	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-1 **Analysis Date(s): 10 Sep 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean	
Sample Results	0.0778	0.0749	0.0029	0.0763	0.0764	
(g/100cc)	0.0786	0.0746	0.0040	0.0766		

Analysis Method

Refer to Volatiles Analytical Method 1.0

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%**

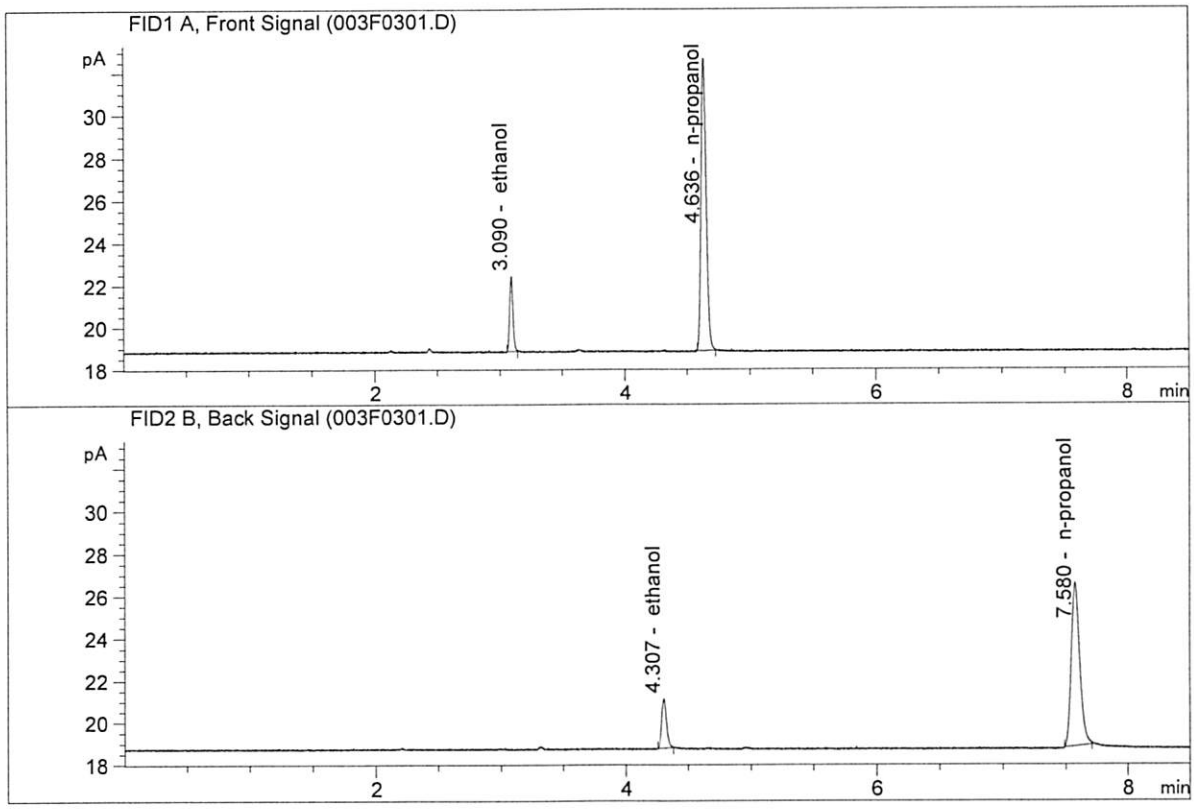
Overall Mean (g/100cc)	Low	High	5% of Mean
0.076	**0.072**	**0.080**	**0.004**

	Reported Result	
	0.076	

Calibration and control data are stored centrally. **Analyst:** NB **Page 2**

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-A
Laboratory : Meridian
Injection Date : Sep 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

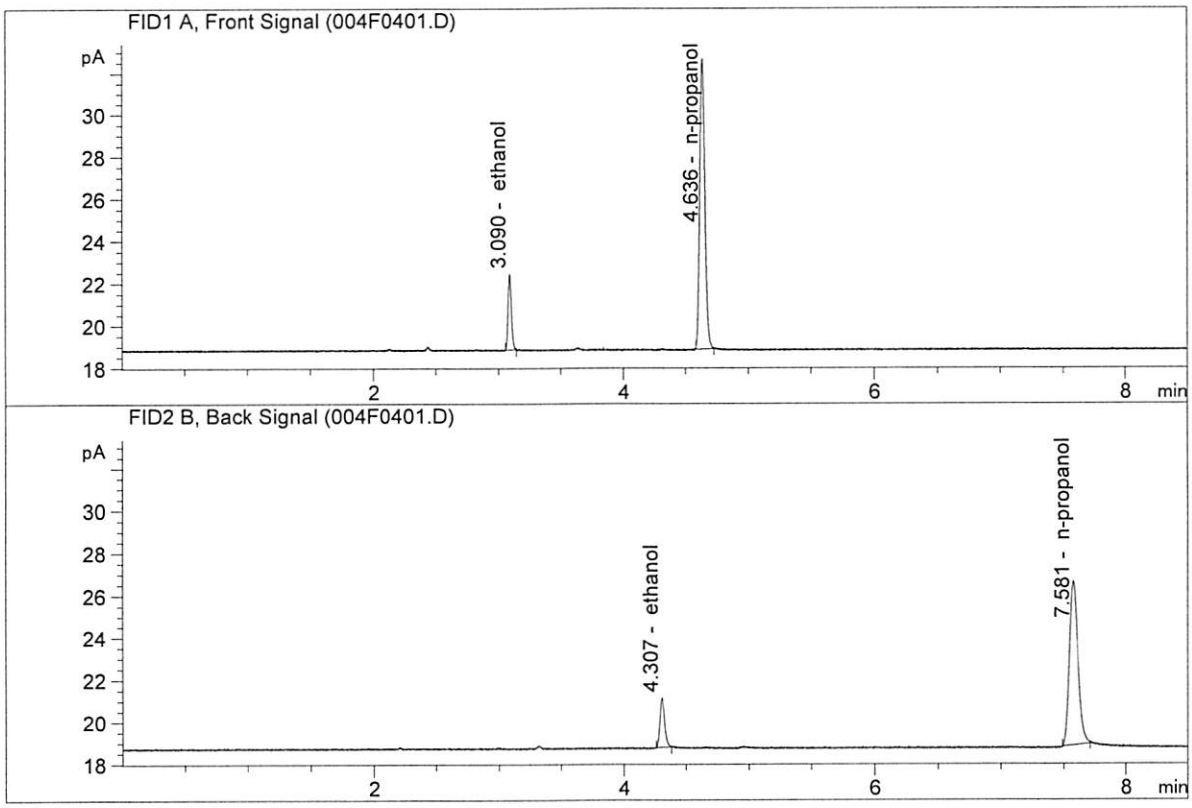


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.57586	0.0778	g/100cc
2.	Ethanol	Column 2:	6.44686	0.0749	g/100cc
3.	n-Propanol	Column 1:	39.40526	1.0000	g/100cc
4.	n-Propanol	Column 2:	37.84690	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-1-B
Laboratory : Meridian
Injection Date : Sep 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.67180	0.0786	g/100cc
2.	Ethanol	Column 2:	6.47969	0.0746	g/100cc
3.	n-Propanol	Column 1:	39.60503	1.0000	g/100cc
4.	n-Propanol	Column 2:	38.17834	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC1-2 **Analysis Date(s): 11 Sep 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0823	0.0788	0.0035	0.0805	0.0802
(g/100cc)	0.0814	0.0783	0.0031	0.0798	

Analysis Method

Refer to Volatiles Analytical Method 1.0

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%**

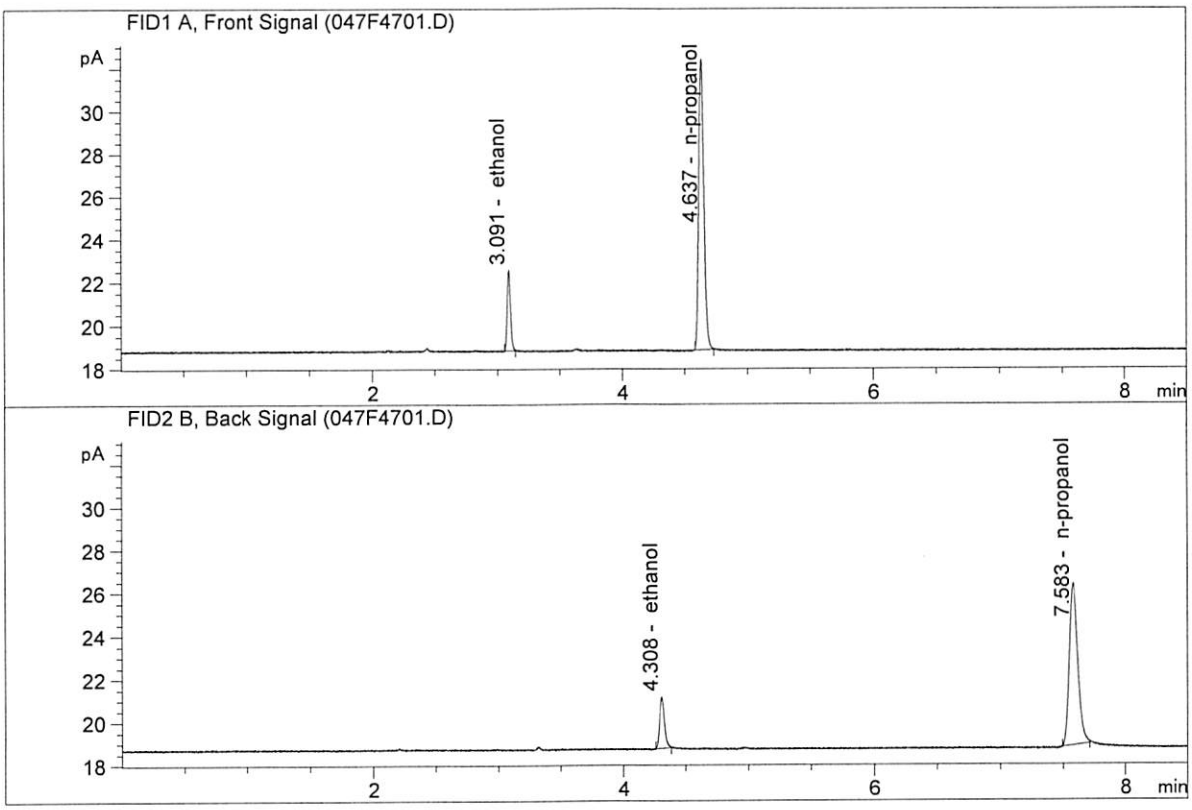
Overall Mean (g/100cc)	Low	High	5% of Mean
0.080	**0.076**	**0.084**	**0.004**

Reported Result
0.080

Calibration and control data are stored centrally. **Analyst:** NB **Page 2**

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-A
Laboratory : Meridian
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

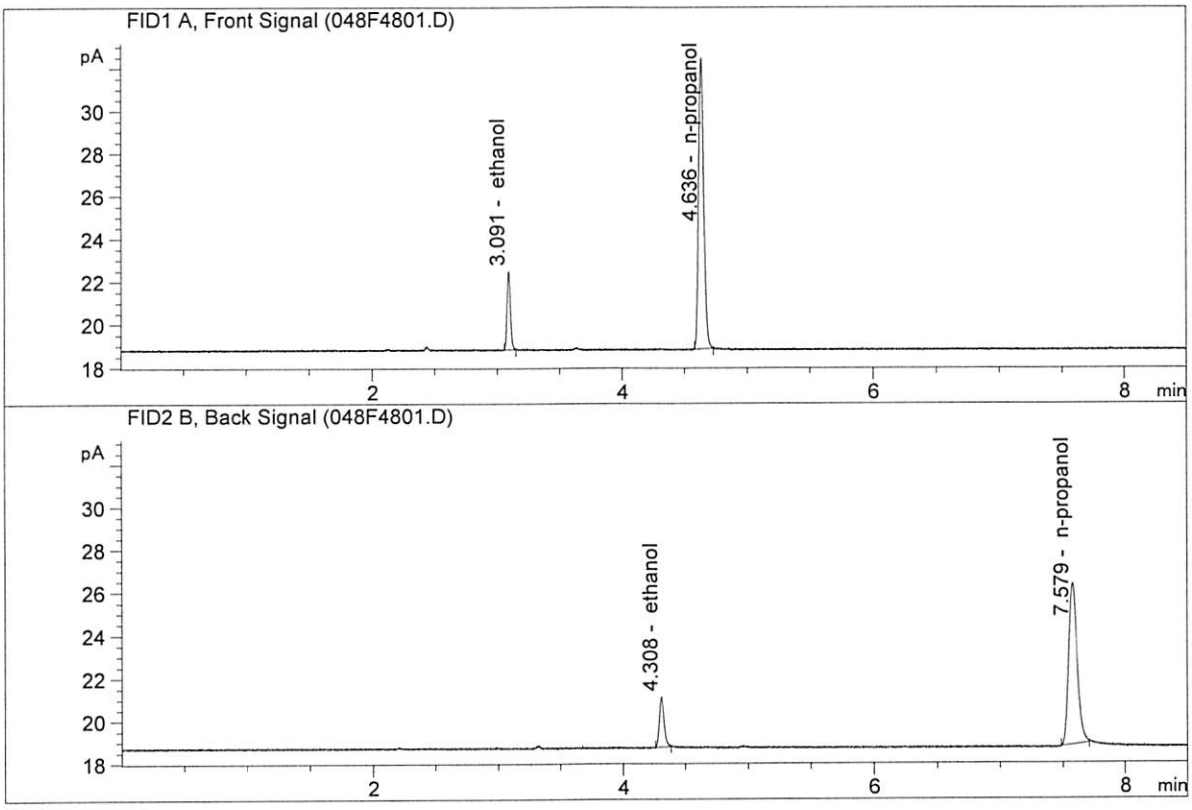


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.84537	0.0823	g/100cc
2.	Ethanol	Column 2:	6.55381	0.0788	g/100cc
3.	n-Propanol	Column 1:	38.79697	1.0000	g/100cc
4.	n-Propanol	Column 2:	36.56621	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC1-2-B
Laboratory : Meridian
Injection Date : Sep 11, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.80048	0.0814	g/100cc
2.	Ethanol	Column 2:	6.56521	0.0783	g/100cc
3.	n-Propanol	Column 1:	38.98514	1.0000	g/100cc
4.	n-Propanol	Column 2:	36.85203	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC2-1 **Analysis Date(s): 10 Sep 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.2019	0.1979	0.0040	0.1999	0.2004
(g/100cc)	0.2026	0.1993	0.0033	0.2009	

Analysis Method

Refer to Volatiles Analytical Method 1.0

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%**

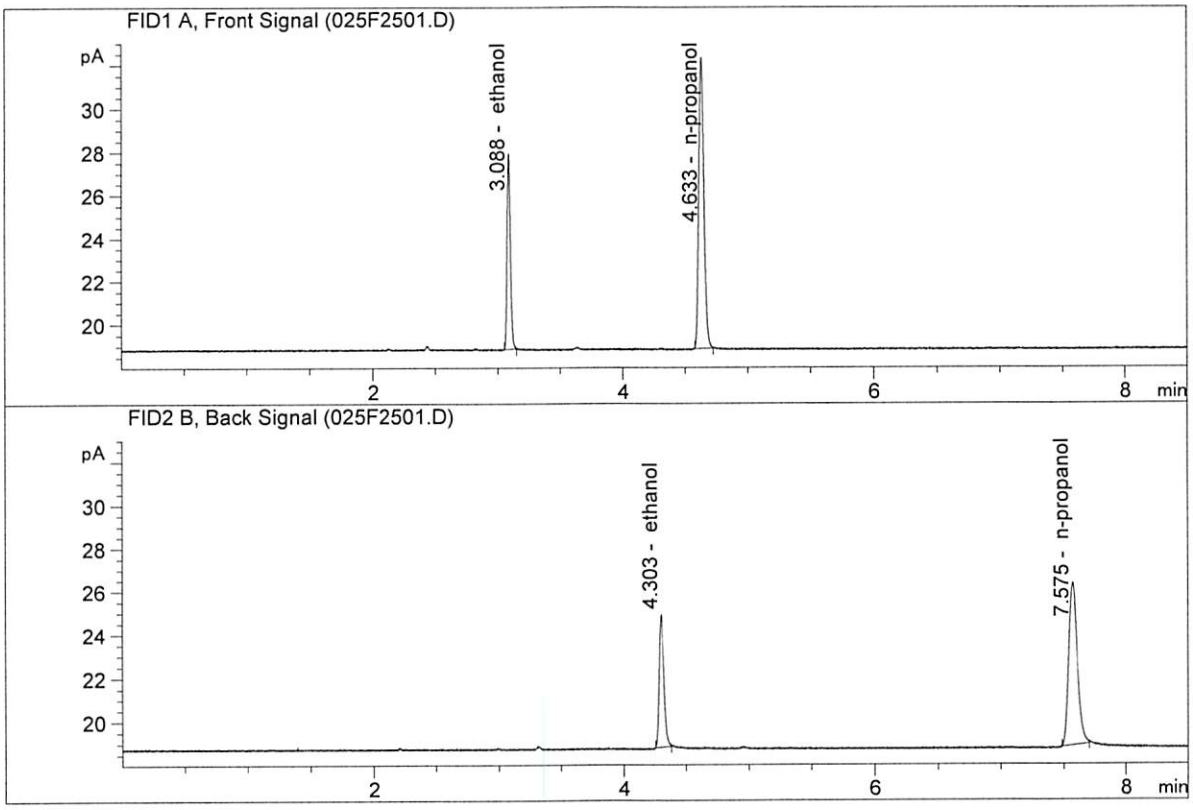
Overall Mean (g/100cc)	Low	High	5% of Mean
0.200	**0.190**	**0.210**	**0.010**

	Reported Result	
	0.200	

Calibration and control data are stored centrally. **Analyst:** NB **Page 2**

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-A
Laboratory : Meridian
Injection Date : Sep 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

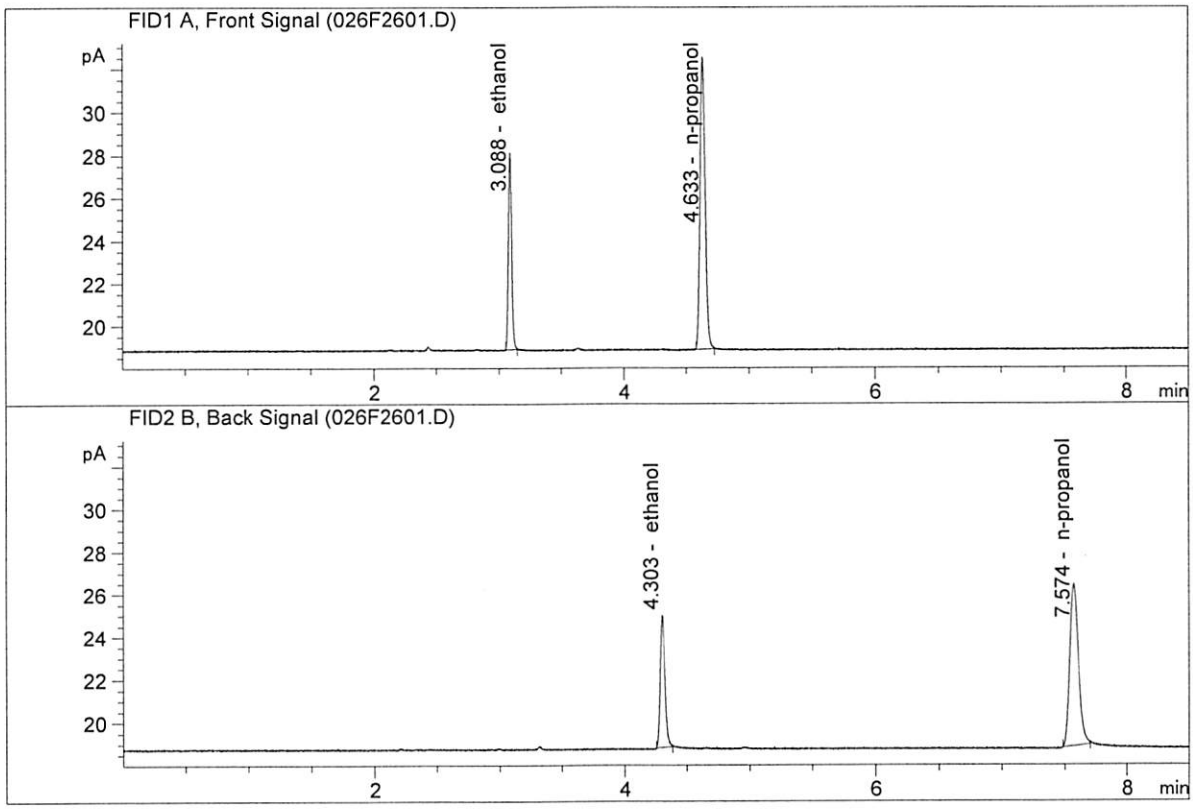


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	16.64510	0.2019	g/100cc
2.	Ethanol	Column 2:	16.43785	0.1979	g/100cc
3.	n-Propanol	Column 1:	38.45780	1.0000	g/100cc
4.	n-Propanol	Column 2:	36.53171	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : QC2-1-B
Laboratory : Meridian
Injection Date : Sep 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167



#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	16.90102	0.2026	g/100cc
2.	Ethanol	Column 2:	16.71294	0.1993	g/100cc
3.	n-Propanol	Column 1:	38.91517	1.0000	g/100cc
4.	n-Propanol	Column 2:	36.88098	1.0000	g/100cc

NB

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN011712-02 **Analysis Date(s): 10 Sep 2015**

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Over-all Mean
Sample Results	0.0802	0.0763	0.0039	0.0782	0.0785
(g/100cc)	0.0802	0.0776	0.0026	0.0789	

Analysis Method

Refer to Volatiles Analytical Method 1.0

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%**

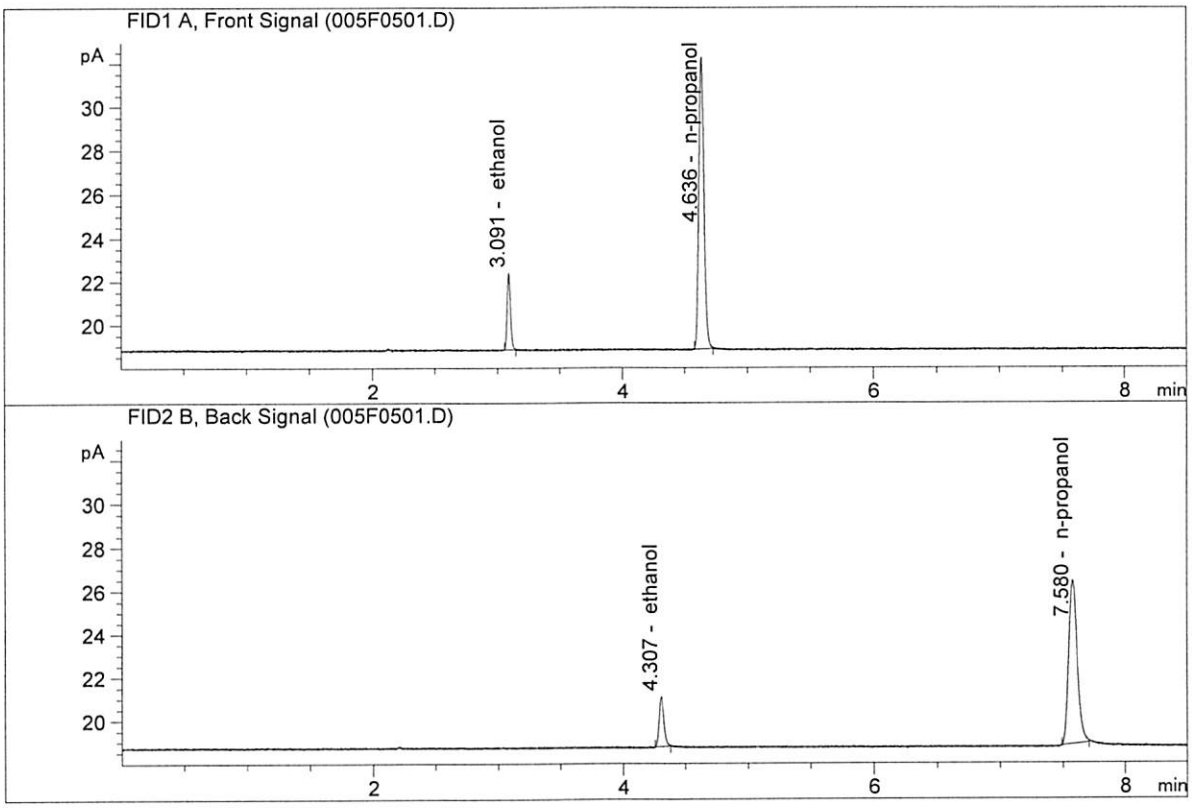
Overall Mean (g/100cc)	Low	High	5% of Mean
0.078	**0.074**	**0.082**	**0.004**

Reported Result
0.078

Calibration and control data are stored centrally. **Analyst:** NB **Page 2**

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN011712-02-A
Laboratory : Meridian
Injection Date : Sep 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

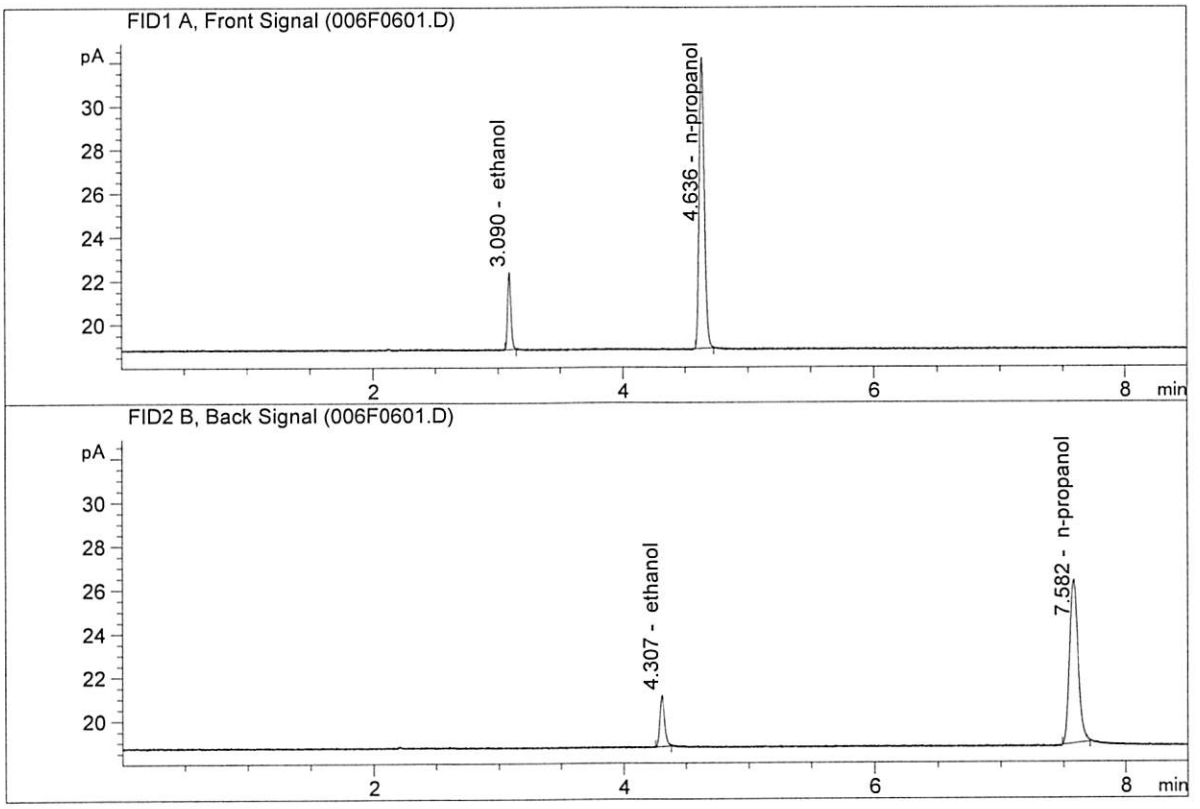


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.61956	0.0802	g/100cc
2.	Ethanol	Column 2:	6.43936	0.0763	g/100cc
3.	n-Propanol	Column 1:	38.50099	1.0000	g/100cc
4.	n-Propanol	Column 2:	37.09226	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : 0.08 FN011712-02-B
Laboratory : Meridian
Injection Date : Sep 10, 2015
Method : ALCOHOL.M
Acq. Instrument: CN11180014-CN11041167

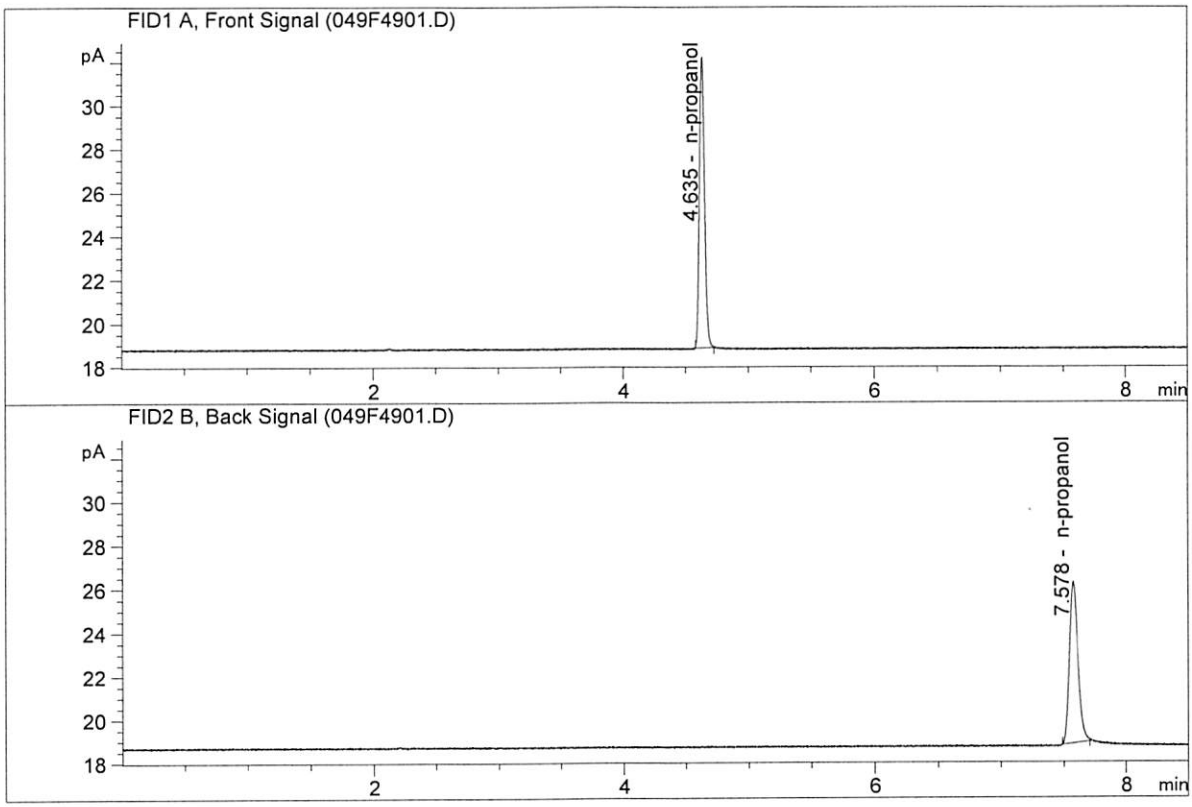


#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	6.56384	0.0802	g/100cc
2.	Ethanol	Column 2:	6.47771	0.0776	g/100cc
3.	n-Propanol	Column 1:	38.19564	1.0000	g/100cc
4.	n-Propanol	Column 2:	36.70115	1.0000	g/100cc

NB

ISP Forensic Services Blood Alcohol Report

Sample Name : INTERNAL STD BLK
Laboratory : Meridian
Injection Date : Sep 11, 2015
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:	38.29810	1.0000	g/100cc
4.	n-Propanol	Column 2:	36.14228	1.0000	g/100cc

NB

Sample Summary

Sequence table: C:\Chem32\1\Data\09-10-15_SAMPLES\09-10-15_SAMPLES 2015-09-10 16-15-33\09-10-15_SAMPLES.S
Data directory path: C:\Chem32\1\Data\09-10-15_SAMPLES\09-10-15_SAMPLES 2015-09-10 16-15-33\
Logbook: C:\Chem32\1\Data\09-10-15_SAMPLES\09-10-15_SAMPLES 2015-09-10 16-15-33\09-10-15_SAMPLES.LOG
Sequence start: 9/10/2015 4:30:19 PM
Sequence Operator: SYSTEM
Operator: SYSTEM

Method file name: C:\Chem32\1\Data\09-10-15_SAMPLES\09-10-15_SAMPLES 2015-09-10 16-15-33\ALCOHOL.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	Cmp
1	1	1	INTERNAL STD BLK	-	1.0000	001F0101.D		2
2	2	1	MIX VOL FN012111	-	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 FN011712-02	-	1.0000	005F0501.D		4
6	6	1	0.08 FN011712-02	-	1.0000	006F0601.D		4
7	7	1	M2015-3087-1-A	-	1.0000	007F0701.D		4
8	8	1	M2015-3087-1-B	-	1.0000	008F0801.D		4
9	9	1	M2015-3093-1-A	-	1.0000	009F0901.D		4
10	10	1	M2015-3093-1-B	-	1.0000	010F1001.D		4
11	11	1	M2015-3104-1-A	-	1.0000	011F1101.D		4
12	12	1	M2015-3104-1-B	-	1.0000	012F1201.D		4
13	13	1	M2015-3122-1-A	-	1.0000	013F1301.D		4
14	14	1	M2015-3122-1-B	-	1.0000	014F1401.D		4
15	15	1	M2015-3126-1-A	-	1.0000	015F1501.D		4
16	16	1	M2015-3126-1-B	-	1.0000	016F1601.D		4
17	17	1	M2015-3132-1-A	-	1.0000	017F1701.D		4
18	18	1	M2015-3132-1-B	-	1.0000	018F1801.D		4
19	19	1	M2015-3137-1-A	-	1.0000	019F1901.D		4
20	20	1	M2015-3137-1-B	-	1.0000	020F2001.D		4
21	21	1	M2015-3138-1-A	-	1.0000	021F2101.D		2
22	22	1	M2015-3138-1-B	-	1.0000	022F2201.D		2
23	23	1	M2015-3141-1-A	-	1.0000	023F2301.D		4
24	24	1	M2015-3141-1-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	M2015-3148-1-A	-	1.0000	027F2701.D		4
28	28	1	M2015-3148-1-B	-	1.0000	028F2801.D		4
29	29	1	M2015-3149-1-A	-	1.0000	029F2901.D		2
30	30	1	M2015-3149-1-B	-	1.0000	030F3001.D		2
31	31	1	M2015-3161-1-A	-	1.0000	031F3101.D		4
32	32	1	M2015-3161-1-B	-	1.0000	032F3201.D		4
33	33	1	M2015-3170-1-A	-	1.0000	033F3301.D		4
34	34	1	M2015-3170-1-B	-	1.0000	034F3401.D		4
35	35	1	M2015-3172-1-A	-	1.0000	035F3501.D		4
36	36	1	M2015-3172-1-B	-	1.0000	036F3601.D		4
37	37	1	M2015-3177-1-A	-	1.0000	037F3701.D		4
38	38	1	M2015-3177-1-B	-	1.0000	038F3801.D		4
39	39	1	M2015-3178-1-A	-	1.0000	039F3901.D		4
40	40	1	M2015-3178-1-B	-	1.0000	040F4001.D		4
41	41	1	M2015-3179-1-A	-	1.0000	041F4101.D		4
42	42	1	M2015-3179-1-B	-	1.0000	042F4201.D		4
43	43	1	M2015-3180-1-A	-	1.0000	043F4301.D		2

NB

Sequence File C:\Chem32\...5_SAMPLES\09-10-15_SAMPLES 2015-09-10 16-15-33\09-10-15_SAMPLES.S

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	Cmp
44	44	1	M2015-3180-1-B	-	1.0000	044F4401.D		2
45	45	1	M2015-3193-1-A	-	1.0000	045F4501.D		4
46	46	1	M2015-3193-1-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	INTERNAL STD BLK	-	1.0000	049F4901.D		2

Method file name: C:\Chem32\1\Data\09-10-15_SAMPLES\09-10-15_SAMPLES 2015-09-10 16-15-33 \SHUTDOWN.M

Run #	Location	Inj #	Sample Name	Sample Amt [g/100cc]	Multip.* Dilution	File name	Cal #	Cmp
50	50	1	EMPTY	-	1.0000	050F5001.D		0

NB