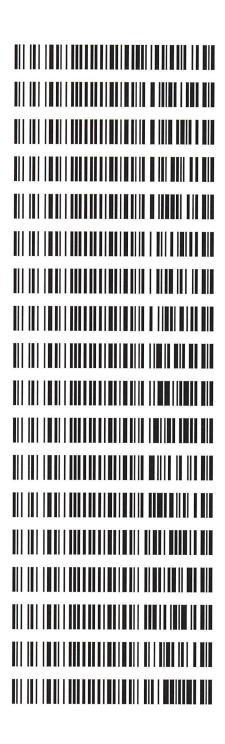
REVIEWED

By Stuart Jacobson at 9:24 am, Mar 22, 2021

Worklist: 4847

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
C2020-1860	1	вск	Alcohol Analysis
C2021-0355	1	BCK	BATS Proficiency Test
C2021-0355	2	BCK	BATS Proficiency Test
C2021-0355	3	ВСК	BATS Proficiency Test
C2021-0355	4	ВСК	BATS Proficiency Test
C2021-0431	1	вск	Alcohol Analysis
C2021-0433	1	вск	Alcohol Analysis
C2021-0452	1	вск	Alcohol Analysis
C2021-0472	1	вск	Alcohol Analysis
C2021-0474	1	вск	Alcohol Analysis
C2021-0482	1	вск	Alcohol Analysis
C2021-0502	1	вск	Alcohol Analysis
C2021-0514	1	вск	Alcohol Analysis
C2021-0528	1	вск	Alcohol Analysis
C2021-0533	1	вск	Alcohol Analysis
C2021-0566	1	BCK	Alcohol Analysis
C2021-0602	1	BCK	Alcohol Analysis
C2021-0613	1	BCK	Alcohol Analysis





Quantitative Analysis for Ethanol & Qualitative Analysis for Other Volatiles

Analytical Method(s): 1.0

Device: Hamilton MICROLAB Liquid Processor/Dilutor Serial Number: ML600HC11379

Volatiles Quality Assurance Controls

worklist #4847

Run Date(s): 3-18-2021

	9998 Column2	0.9999	Column 1		Curve Fit:	
	FN07101701	Lot#		Jul-22	nent mixture:	Multi-Component mixture:
ı						
	0.1832-0.2238	035	0.2035	1803028	Mar-22	Level 2
	0.0731-0.0893	812	0.0812	1801036	Jan-22	Level 1
Overall Results	Acceptable Range	Value	Target Value	Lot#	Expiration	Control level

	300		100	50	Calibrator level	
	0.200	•	0.100	0.050	Target Value	ation Reference Material
Ethanol Calibration Reference Material tor level Target Value 0 0.050 0 0.100	0 270 - 0 330	0.180 - 0.220	0.090 - 0.110	0.045 - 0.055	Acceptable Range	
	0.19/8	01000	0.0992	0.0493	Column 1	
Acceptable Range 0.045 - 0.055 0.090 - 0.110	0.1955		0.0977	0.0494		
Acceptable Range Column 1 0.045 - 0.055 0.0493 0.090 - 0.110 0.0992	0.0023	0 0000		- 1	Precision	
Acceptable Range Column 1 Column 2 Precision 0.045 - 0.055 0.0493 0.0494 0.0001 0.090 - 0.110 0.0992 0.0977 0.0015	9,002,0	0.1966	0.0984	0.0493	Mean	

g/100cc	0.080	0.076 - 0.084	0.080	80
Overall Results	Ove	Acceptable Range	Target Value	Control level
			Aqueous Controls	

Revision: 2

Issue Date: 12/23/2019 Issuing Authority: Quality Manager

Sample Summary

Sequence table: C:\Chem32\1\TEMP\AESEQ\QS_18.03.2021_04.02.33\03-18-2021.S

Data directory path: C:\Chem32\1\Data\03-18-21JJ

Logbook: C:\Chem32\1\Data\03-18-21JJ\03-18-2021.LOG

Sequence start: 3/18/2021 4:16:20 PM

Sequence Operator: SYSTEM Operator: SYSTEM

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

Run Location Inj Sample Name Sample Amt Wiltigh File name Cal Run	Run	Location In	i Sample	Name	Sample	Amt Multin	.* File	name	Cal #
1		11			F /100				~
1 1 1 1 Water-1 - 1.0000 001F0101.D 0 2 2 1 VOL MIX - 1.0000 003F0301.D 0 3 3 1 ISTD BLANK-1 - 1.0000 003F0301.D 2 4 4 4 1 QC-2(1)-A - 1.0000 003F0301.D 4 5 5 1 QC-2(1)-B - 1.0000 005F0501.D 4 6 6 1 0.08 FN09181807 1.0000 005F0501.D 4 8 8 1 C2020-1860-1-A - 1.0000 007F0701.D 4 8 8 1 C2021-0860-1-B - 1.0000 007F0701.D 4 10 10 1 C2021-0355-1-A - 1.0000 007F001.D 4 11 11 1 C2021-0355-1-B - 1.0000 007F001.D 4 12 12 1 C2021-0355-2-B - 1.0000 017F101.D 4 13 13 1 C2021-0355-2-B - 1.0000 012F101.D 4 14 14 1 C2021-0355-3-A - 1.0000 012F101.D 6 15 15 1 C2021-0355-3-B - 1.0000 013F1301.D 6 16 16 1 C2021-0355-3-B - 1.0000 013F1301.D 6 17 17 1 C2021-0355-4-B - 1.0000 013F1501.D 6 18 18 1 C2021-0431-1-A - 1.0000 017F1701.D 6 19 19 1 C2021-0433-1-B - 1.0000 017F1701.D 4 20 20 1 C2021-0433-1-B - 1.0000 017F1701.D 4 21 21 1 C2021-0433-1-B - 1.0000 017F101.D 4 22 22 1 C2021-0452-1-A - 1.0000 027F201.D 4 23 23 1 C2021-0452-1-A - 1.0000 027F201.D 4 24 24 1 C2021-0472-1-B - 1.0000 027F201.D 4 25 25 1 C2021-0472-1-B - 1.0000 027F201.D 4 26 26 1 CC-2(2)-B - 1.0000 027F201.D 4 27 27 1 CC-2(2)-B - 1.0000 027F201.D 4 28 28 1 C2021-0474-1-B - 1.0000 027F201.D 4 29 29 1 C2021-0474-1-B - 1.0000 027F201.D 4 30 30 1 C2021-0528-1-B - 1.0000 037F301.D 4 31 31 1 C2021-0528-1-B - 1.0000 037F301.D 4 32 32 1 C2021-0528-1-B - 1.0000 037F301.D 4 33 33 1 C2021-0528-1-B - 1.0000 037F301.D 4 34 34 1 C2021-0528-1-B - 1.0000 037F301.D 4 35 35 1 C2021-0528-1-B - 1.0000 037F301.D 4 36 36 1 C2021-0528-1-B - 1.0000 037F301.D 4 37 37 1 C2021-0528-1-B - 1.0000 037F301.D 4 36 36 1 C2021-0528-1-B - 1.0000 037F301.D 4 37 37 1 C2021-0528-1-B - 1.0000 037F301.D 4 36 36 1 C2021-0566-1-B - 1.0000 037F301.D 4 37 37 1 C2021-0566-1-B - 1.0000 037F301.D 4 37 37 1 C2021-0566-1-B - 1.0000 037F301.D 4 38 38 1 C2021-0566-1-B - 1.0000 037F301.D 4 39 39 1 C2021-0566-1-B - 1.0000 037F301.D 4 41 41 1 C2021-0566-1-B - 1.0000 047F401.D 2 42 42 1 C2021-0566-1-B - 1.0000 047F401.D 2 43 43 1 C2021-05601-B - 1.0000 047F401.D 2 44 44 1 C2021-06613-1-B - 1.0000 047F401.D 2			.						l
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5 5 1 QC-2(1) - B									
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15 15 1 C2021-0355-3-B									
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18 18 1 C2021-0431-1-A - 1.0000 018F1801.D 4 19 19 1 C2021-0433-1-B - 1.0000 019F1901.D 4 20 20 1 C2021-0433-1-B - 1.0000 021F2101.D 4 21 21 1 C2021-0452-1-A - 1.0000 022F2201.D 6 23 23 1 C2021-0452-1-B - 1.0000 023F2301.D 4 24 24 1 C2021-0472-1-A - 1.0000 024F2401.D 4 25 25 1 C2021-0472-1-B - 1.0000 025F2501.D 4 26 26 1 QC-2(2)-A - 1.0000 025F2501.D 4 27 27 1 QC-2(2)-B - 1.0000 02F2201.D 4 28 28 1 C2021-0474-1-A - 1.0000 02F2801.D 4 29 29 1 C2021-0474-1-B - 1.0000 02F2801.D 4 31 31 1 C2021-0482-1-B - 1.0000 03F3001.D 4 32 32 1 C2021-0502-1-B - 1.0000 03F3001.D 4 33 33 1 C2021-0502-1-B - 1.0000 03F3001.D 4 34 34 1 C2021-0504-1-A - 1.0000 03F3001.									
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31 31 1 C2021-0482-1-B - 1.0000 031F3101.D 4 32 32 1 C2021-0502-1-B - 1.0000 032F3201.D 4 33 33 1 C2021-0502-1-B - 1.0000 033F3301.D 4 34 34 1 C2021-0514-1-B - 1.0000 034F3401.D 4 35 35 1 C2021-0514-1-B - 1.0000 035F3501.D 4 36 36 1 C2021-0528-1-A - 1.0000 036F3601.D 4 37 37 1 C2021-0528-1-B - 1.0000 037F3701.D 4 38 38 1 C2021-0533-1-A - 1.0000 038F3801.D 4 40 40 1 C2021-0566-1-A - 1.0000 049F3901.D 4 41 41 1 C2021-0566-1-B - 1.0000 041F4101.D 2 42 42 1 C2021-0602-1-B - 1.0000 043F4301.D 2					-				4
32 32 1 C2021-0502-1-A - 1.0000 032F3201.D 4 33 33 1 C2021-0502-1-B - 1.0000 033F3301.D 4 34 34 1 C2021-0514-1-A - 1.0000 034F3401.D 4 35 35 1 C2021-0514-1-B - 1.0000 035F3501.D 4 36 36 1 C2021-0528-1-A - 1.0000 036F3601.D 4 37 37 1 C2021-0528-1-B - 1.0000 037F3701.D 4 38 38 1 C2021-0533-1-A - 1.0000 038F3801.D 4 49 40 1 C2021-0533-1-B - 1.0000 039F3901.D 4 40 40 1 C2021-0566-1-A - 1.0000 040F4001.D 4 41 41 1 C2021-0566-1-B - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-A - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2					-				4
33 33 1 C2021-0502-1-B - 1.0000 033F3301.D 4 34 34 1 C2021-0514-1-B - 1.0000 034F3401.D 4 35 35 1 C2021-0514-1-B - 1.0000 035F3501.D 4 36 36 1 C2021-0528-1-A - 1.0000 036F3601.D 4 37 37 1 C2021-0528-1-B - 1.0000 037F3701.D 4 38 38 1 C2021-0533-1-A - 1.0000 038F3801.D 4 49 40 1 C2021-0533-1-B - 1.0000 039F3901.D 4 40 40 1 C2021-0566-1-A - 1.0000 040F4001.D 4 41 41 1 C2021-0602-1-A - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-B - 1.0000 044F4401.D 2 44 44 1 C2021-0613-1-A - 1.0000 045F4501.D 2					-	1.00	00 031F310	1.D	4
34 34 1 C2021-0514-1-A - 1.0000 034F3401.D 4 35 35 1 C2021-0514-1-B - 1.0000 035F3501.D 4 36 36 1 C2021-0528-1-A - 1.0000 036F3601.D 4 37 37 1 C2021-0528-1-B - 1.0000 037F3701.D 4 38 38 1 C2021-0533-1-A - 1.0000 038F3801.D 4 39 39 1 C2021-0533-1-B - 1.0000 039F3901.D 4 40 40 1 C2021-0566-1-A - 1.0000 040F4001.D 4 41 41 1 C2021-0566-1-B - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-B - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2					-				4
35 35 1 C2021-0514-1-B - 1.0000 035F3501.D 4 36 36 1 C2021-0528-1-A - 1.0000 036F3601.D 4 37 37 1 C2021-0528-1-B - 1.0000 037F3701.D 4 38 38 1 C2021-0533-1-A - 1.0000 038F3801.D 4 39 39 1 C2021-0533-1-B - 1.0000 039F3901.D 4 40 40 1 C2021-0566-1-A - 1.0000 040F4001.D 4 41 41 1 C2021-0566-1-B - 1.0000 041F4101.D 2 42 42 1 C2021-0602-1-A - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-B - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2	33	33 1	. C2021-05	02-1-B	-	1.00	00 033F330	1.D	4
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37 37 1 C2021-0528-1-B - 1.0000 037F3701.D 4 38 38 1 C2021-0533-1-A - 1.0000 038F3801.D 4 39 39 1 C2021-0533-1-B - 1.0000 039F3901.D 4 40 40 1 C2021-0566-1-A - 1.0000 040F4001.D 4 41 41 1 C2021-0566-1-B - 1.0000 041F4101.D 4 42 42 1 C2021-0602-1-A - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-B - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 045F4501.D 2	35	35 1	C2021-05	14-1-B	-	1.00	00 035F350:	1.D	4
38 38 1 C2021-0533-1-A - 1.0000 038F3801.D 4 39 39 1 C2021-0533-1-B - 1.0000 039F3901.D 4 40 40 1 C2021-0566-1-A - 1.0000 040F4001.D 4 41 41 1 C2021-0566-1-B - 1.0000 041F4101.D 4 42 42 1 C2021-0602-1-A - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-B - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2	36	36 1	C2021-05	28-1-A	-	1.00	00 036F360:	1.D	4
39 39 1 C2021-0533-1-B - 1.0000 039F3901.D 4 40 40 1 C2021-0566-1-A - 1.0000 040F4001.D 4 41 41 1 C2021-0566-1-B - 1.0000 041F4101.D 4 42 42 1 C2021-0602-1-A - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-B - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2	37	37 1	C2021-05	28-1-B	-	1.00	00 037F370	1.D	4
40 40 1 C2021-0566-1-A - 1.0000 040F4001.D 4 41 41 1 C2021-0566-1-B - 1.0000 041F4101.D 4 42 42 1 C2021-0602-1-A - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-B - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2	38	38 1	C2021-05	33-1-A	-	1.00	00 038F380	1.D	4
41 41 1 C2021-0566-1-B - 1.0000 041F4101.D 4 42 42 1 C2021-0602-1-A - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-B - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2	39	39 1	C2021-05	33-1-B	-	1.00	00 039F390:	1.D	4
42 42 1 C2021-0602-1-A - 1.0000 042F4201.D 2 43 43 1 C2021-0602-1-B - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2	40	40	. C2021-05	66-1-A	-	1.00	00 040F400	l.D	4
43 43 1 C2021-0602-1-B - 1.0000 043F4301.D 2 44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2	41	41 1	. C2021-05	66-1-B	-	1.00	00 041F410	1.D	4
44 44 1 C2021-0613-1-A - 1.0000 044F4401.D 2 45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2	42	42 1	. C2021-06	02-1-A	-	1.00	00 042F420	L.D	2
45 45 1 C2021-0613-1-B - 1.0000 045F4501.D 2	43				-	1.00	00 043F430	L.D	2
	44	44 1	. C2021-06	13-1-A	-	1.00	00 044F440	L.D	2
46 46 1 QC-1(2)-A - 1.0000 046F4601.D 4	45	45 1	. C2021-06	13-1-B	-	1.00	00 045F450	l.D	2
	46	46	QC-1(2)-	A	-	1.00	00 046F460	L.D	4

Sequence File C:\Chem32\1\TEMP\AESEQ\QS_18.03.2021_04.02.33\03-18-2021.S

Run	Location	Inj	Sample Name	Sample Amt	Multip.*	File name	Cal	#
#		#		[g/100cc]	Dilution			Cmp
47	47	1	QC-1(2)-B	-	1.0000	047F4701.D		4
48	48	1	ISTD BLANK-2		1.0000	048F4801.D		2
49	49	1	water-2	-	1.0000	049F4901.D		0

```
______
                       Calibration Table
_____
                   General Calibration Setting
Calib. Data Modified :
                         Thursday, March 18, 2021 3:39:20 PM
Signals calculated separately:
                                 No
Rel. Reference Window: 0.000 %
Abs. Reference Window: 0.100 min
ADS. Reference Window: 0.100 min

Rel. Non-ref. Window: 0.000 %

Abs. Non-ref. Window: 0.100 min

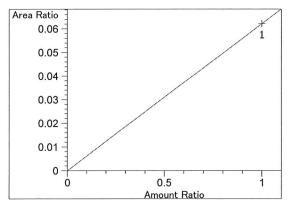
Uncalibrated Peaks: not reported

Partial Calibration: No recalibration if peaks missing
                        Linear
Curve Type
Origin
                          Included
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 Name
  # [g/100cc]
1.00000 n-Propanol
        1.00000 n-Propanol
                        Signal Details
------
Signal 1: FID1 A, Front Signal
Signal 2: FID2 B, Back Signal
______
                         Overview Table
```



```
Rsp.Factor Ref ISTD #
                                                Compound
  RT Sig Lvl Amount
                      Area
            [g/100cc]
1.06794 9.36380e-1 No No 2 Difluoroethane
             1.00000
                      5.00000 2.00000e-1 No No 1 Difluoroethane
 2.213 1 1
             1.00000
                      3.69669 2.70512e-1 No No 1 Methanol
 2.494 1 1
             1.00000
                      3.19311 3.13174e-1 No No 1 Acetaldehyde
 2.772 1 1
             1.00000
             1.00000 3.10575 3.21983e-1 No No 2 Acetaldehyde
 2.797 2 1
                     8.12487 6.15395e-3 No No 1 Ethanol
 3.110 1 1 5.00000e-2
         2 1.00000e-1 16.42620 6.08783e-3
         3 2.00000e-1 34.17638 5.85199e-3
         4 3.00000e-1 49.55641 6.05371e-3
         5 5.00000e-1 83.13074 6.01462e-3
             1.00000 4.26062 2.34707e-1 No No 2 Methanol
 3.211 2 1
             1.00000 9.73055 1.02769e-1 No No 1 Isopropyl alcohol
 3.715 1 1
                     7.36068 6.79285e-3 No No 2 Ethanol
 4.184 2 1 5.00000e-2
         2 1.00000e-1 14.82222 6.74663e-3
         3 2.00000e-1 31.21039 6.40812e-3
         4 3.00000e-1 46.34290 6.47348e-3
         5 5.00000e-1 77.47714 6.45352e-3
            1.00000 6.89301 1.45075e-1 No No 2 Acetone
 4.567 2 1
             1.00000 6.49940 1.53860e-1 No No 1 Acetone
 4.581 1 1
                     10.70642 9.34019e-2 No No 2 Isopropyl alcohol
 4.870 2 1
             1.00000
             1.00000 80.48958 1.24240e-2 No Yes 1 n-Propanol
 4.945 1 1
         2
             1.00000 80.53053 1.24177e-2
             1.00000 83.79415 1.19340e-2
         3
            1.00000 79.88733 1.25176e-2
         4
         5
            1.00000 80.81501 1.23739e-2
            1.00000 70.48893 1.41866e-2 No Yes 2 n-Propanol
 7.629 2
        1
             1.00000 69.56420 1.43752e-2
         2
             1.00000 72.07390 1.38746e-2
         3
             1.00000 68.69852 1.45564e-2
                    69.46797 1.43951e-2
             1.00000
                      Peak Sum Table
***No Entries in table***
______
_____
                    Calibration Curves
_____
Area Ratio -
                             Difluoroethane at exp. RT: 2.165
                             FID2 B, Back Signal
  0.014
                             Correlation:
                                                1.00000
  0.012 -
                             Residual Std. Dev.:
                                               0.00000
  0.01
                             Formula: y = mx + b
  0.008
                                  m:
                                         1.51505e-2
                                         0.00000
  0.006
                                  x: Amount Ratio
  0.004
                                  y: Area Ratio
  0.002
               0.5
              Amount Ratio
```





Difluoroethane at exp. RT: 2.213 FID1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

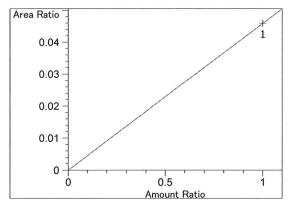
Formula: y = mx + b

m: 6.21198e-2

b: 0.00000

x: Amount Ratio

y: Area Ratio



Methanol at exp. RT: 2.494

FID1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

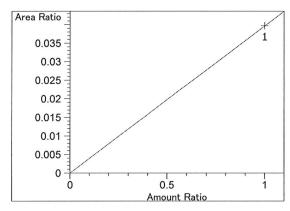
Formula: y = mx + b

m: 4.59276e-2

b: 0.00000

x: Amount Ratio

y: Area Ratio



Acetaldehyde at exp. RT: 2.772

FID1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

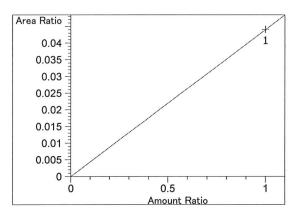
Formula: y = mx + b

m: 3.96711e-2

b: 0.00000

x: Amount Ratio

y: Area Ratio



Acetaldehyde at exp. RT: 2.797

FID2 B, Back Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

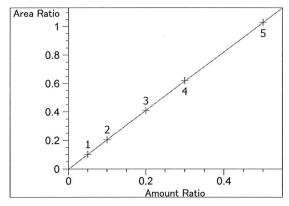
Formula: y = mx + b

m: 4.40601e-2

b: 0.00000

x: Amount Ratio

y: Area Ratio



Ethanol at exp. RT: 3.110

FID1 A, Front Signal

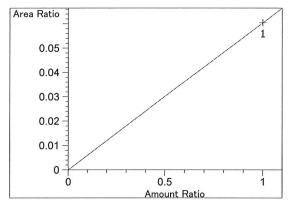
Correlation: 0.99998

Residual Std. Dev.: 0.00242

Formula: y = mx + bm: 2.06163

> b: -1.51813e-3 x: Amount Ratio

y: Area Ratio



Methanol at exp. RT: 3.211

FID2 B, Back Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

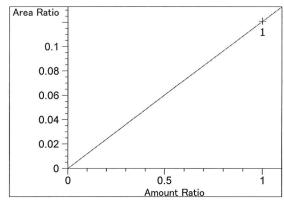
Formula: y = mx + b

m: 6.04439e-2

b: 0.00000

x: Amount Ratio

y: Area Ratio



Isopropyl alcohol at exp. RT: 3.715

FID1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

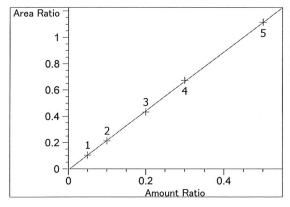
Formula: y = mx + b

m: 1.20892e-1

b: 0.00000

x: Amount Ratio

y: Area Ratio



Ethanol at exp. RT: 4.184

FID2 B, Back Signal

Correlation: 0.99988

Residual Std. Dev.: 0.00733

Formula: y = mx + b

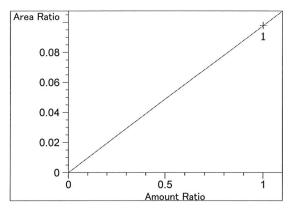
m: 2.24453

b: -6.79997e-3

x: Amount Ratio

y: Area Ratio





Acetone at exp. RT: 4.567 FID2 B, Back Signal

Correlation: 1.00000 Residual Std. Dev.: 0.00000

Residual Std. Dev.: 0.

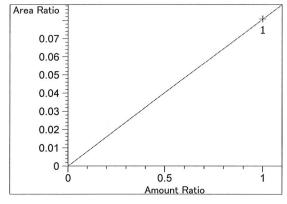
Formula: y = mx + b

m: 9.77885e-2

b: 0.00000

x: Amount Ratio

y: Area Ratio



Acetone at exp. RT: 4.581

FID1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

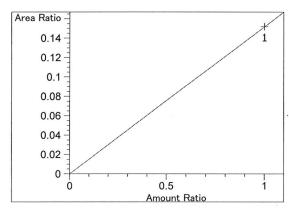
Formula: y = mx + b

m: 8.07484e-2

b: 0.00000

x: Amount Ratio

y: Area Ratio



Isopropyl alcohol at exp. RT: 4.870

FID2 B, Back Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

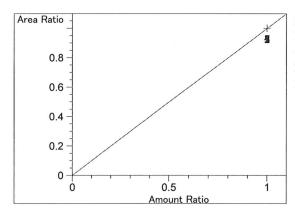
Formula: y = mx + b

m: 1.51888e-1

b: 0.00000

x: Amount Ratio

y: Area Ratio



n-Propanol at exp. RT: 4.945

FID1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

Formula: y = mx + b

m: 1.00000

b: 0.00000

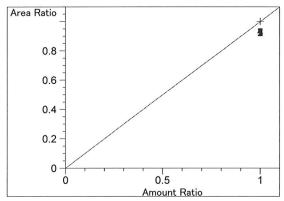
x: Amount Ratio

x: Amount Rati

y: Area Ratio



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



n-Propanol at exp. RT: 7.629

FID2 B, Back Signal

Correlation: 1.00000 Residual Std. Dev.: 0.00000

Formula: y = mx + b

m: 1.00000

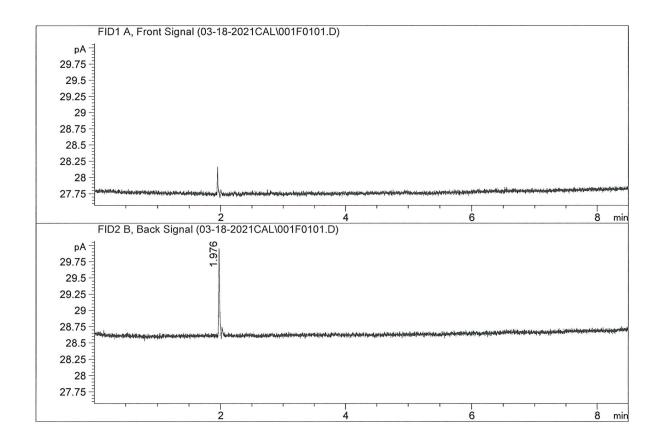
b: 0.00000 x: Amount Ratio

y: Area Ratio

Sample Name WATER

Laboratory Coeur d' Alene Mar 18, 2021 ALCOHOL.M CN10742044-II Injection Date: Method

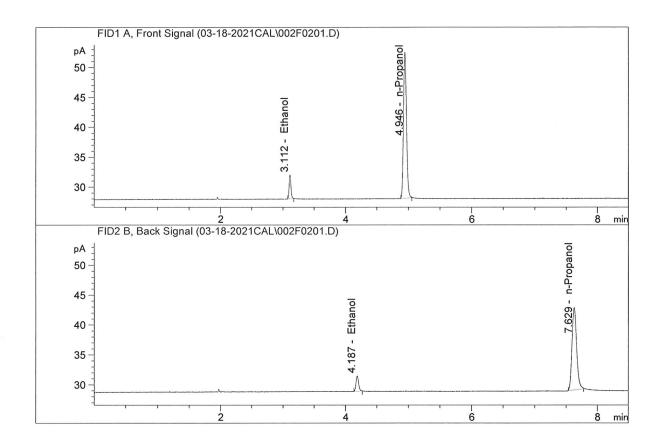
CN10742044-IT00725005 Acq. Instrument:



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

Sample Name : 0.05

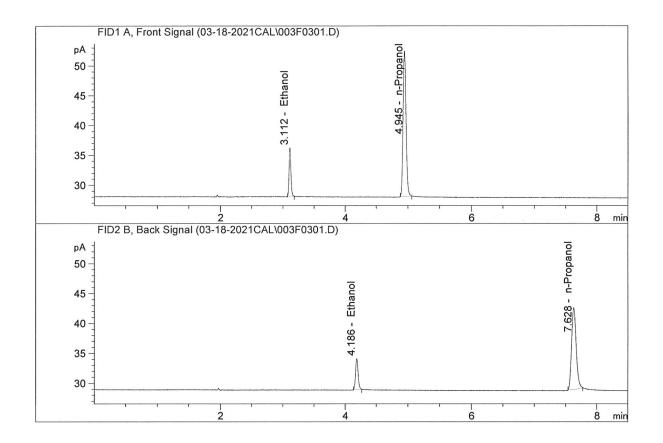
Laboratory : Coeur d' Alene Injection Date : Mar 18, 2021 Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	8.12487	0.0493	g/100cc
2.	Ethanol	Column	2:	7.36068	0.0494	g/100cc
3.	n-Propanol	Column	1:	80.48958	1.0000	g/100cc
4.	n-Propanol	Column	2:	70.48893	1.0000	g/100cc

Sample Name : 0.100

Laboratory : Coeur d' Alene Injection Date : Mar 18, 2021 Method : ALCOHOL.M

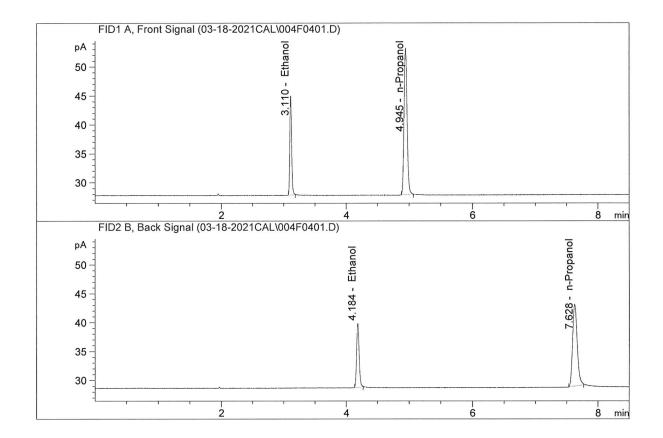


#	Compound	Column		ě	Area	Amo	ount	Units
1.	Ethanol	Column	1:	16.	42620	0.09	992	g/100cc
2.	Ethanol	Column	2:	14.	82222	0.09	977	g/100cc
3.	n-Propanol	Column	1:	80.	53053	1.00	000	g/100cc
4.	n-Propanol	Column	2:	69.	56420	1.00	000	g/100cc



Sample Name : 0.200

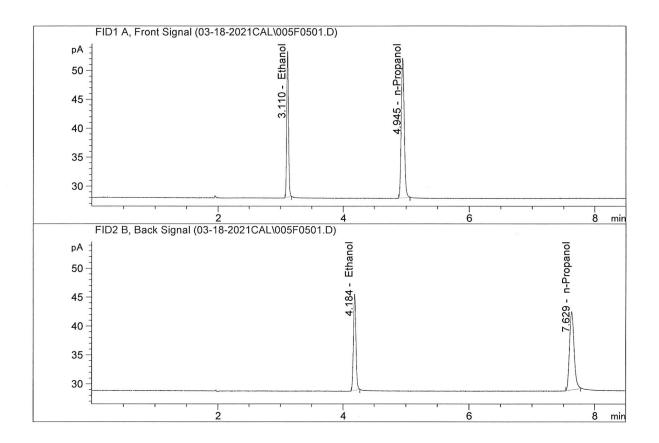
Laboratory : Coeur d' Alene Injection Date : Mar 18, 2021 Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	34.17638	0.1978	g/100cc
2.	Ethanol	Column	2:	31.21039	0.1955	g/100cc
3.	n-Propanol	Column	1:	83.79415	1.0000	g/100cc
4.	n-Propanol	Column	2:	72.07390	1.0000	g/100cc

Sample Name : 0.300

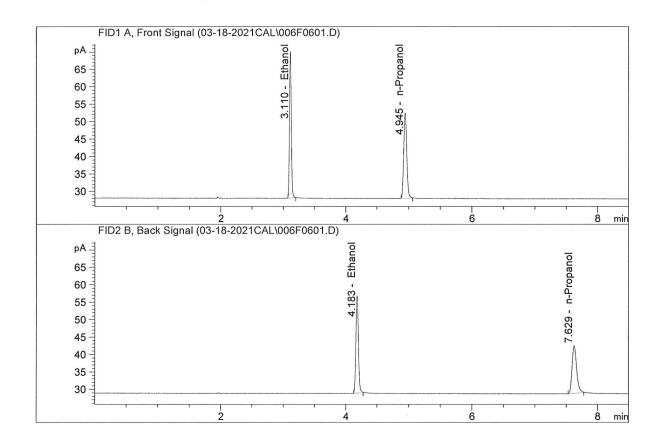
Laboratory : Coeur d' Alene Injection Date : Mar 18, 2021 Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	49.55641	0.3016	g/100cc
2.	Ethanol	Column	2:	46.34290	0.3036	g/100cc
3.	n-Propanol	Column	1:	79.88733	1.0000	g/100cc
4.	n-Propanol	Column	2:	68.69852	1.0000	g/100cc

Sample Name : 0.500

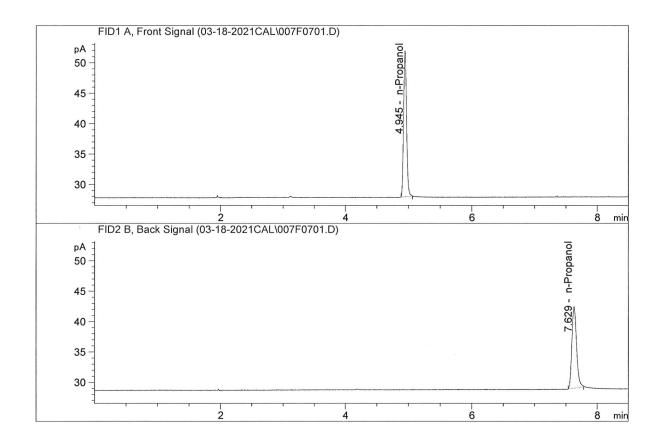
Laboratory : Coeur d' Alene Injection Date : Mar 18, 2021 Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	83.13074	0.4980	g/100cc
2.	Ethanol	Column	2:	77.47714	0.4991	g/100cc
3.	n-Propanol	Column	1:	80.81501	1.0000	g/100cc
4.	n-Propanol	Column	2:	69.46797	1.0000	g/100cc



Sample Name : ISTD BLANK
Laboratory : Coeur d' Alene
Injection Date : Mar 18, 2021
Method : ALCOHOL.M

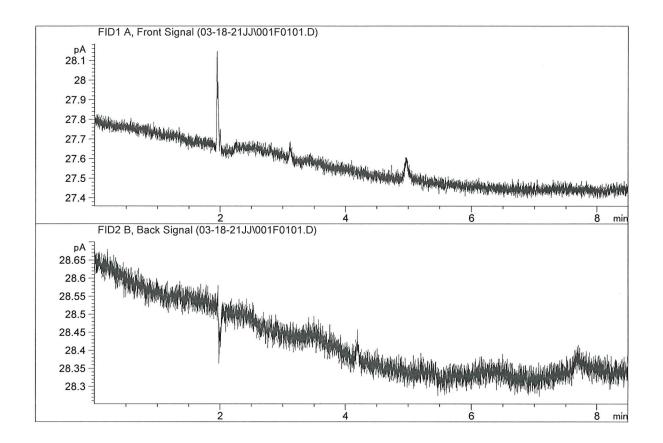


#	Compound	Column			Area	Amo	unt	Units
1.	Ethanol	Column	1:	0.	00000	0.00	00	g/100cc
2.	Ethanol	Column	2:	0.	00000	0.00	00	g/100cc
3.	n-Propanol	Column	1:	79.	44427	1.00	00	g/100cc
4.	n-Propanol	Column	2:	68.	77823	1.00	00	g/100cc



Sample Name : water-1

Laboratory: Coeur d' Alene
Injection Date: Mar 18, 2021
Method: ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



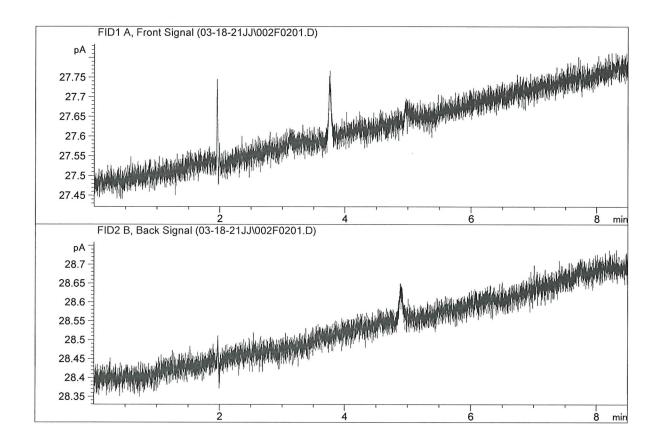
#	Compound	Column	Area	Amount	Units
1.	Ethanol	Column 1:	0.00000	0.0000	g/100cc
2.	Ethanol	Column 2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column 1:	0.00000	0.0000	g/100cc
4.	n-Propanol	Column 2:	0.00000	0.0000	g/100cc



Sample Name : VOL MIX

Laboratory Coeur d' Alene Mar 18, 2021 ALCOHOL.M CN10742044-IT00725005 Injection Date : Method

Acq. Instrument:

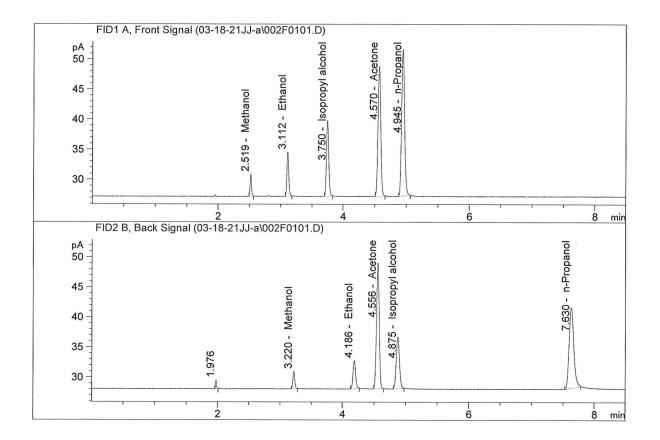


#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	0.0000	0.0000	g/100cc
2.	Ethanol	Column	2:	0.00000	0.0000	g/100cc
3.	n-Propanol	Column	1:	0.0000	0.0000	g/100cc
4.	n-Propanol	Column	2:	0.00000	0.0000	g/100cc



Sample Name : VOL MIX

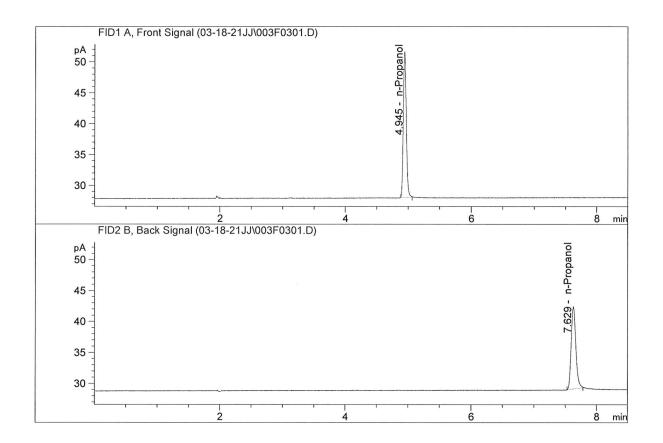
Laboratory : Coeur d' Alene Injection Date : Mar 18, 2021 Method : ALCOHOL.M



#	Compound	Column		Aı	rea	Amoun	ıt	Units
1.	Ethanol	Column	1:	14.72	2903	0.0895		g/100cc
2.	Ethanol	Column	2:	13.43	3966	0.0893		g/100cc
3.	n-Propanol	Column	1:	80.44	1409	1.0000		g/100cc
4.	n-Propanol	Column	2:	69.43	1176	1.0000		g/100cc



Sample Name : ISTD BLANK-1
Laboratory : Coeur d' Alene
Injection Date : Mar 18, 2021
Method : ALCOHOL.M



#	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:	78.21375	1.0000	g/100cc
4.	n-Propanol	Column	2:	68.04320	1.0000	g/100cc



VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2(1) Analysis Date(s): 18 Mar 2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.1924	0.1922	0.0002	0.1923	0.0003	0.1924
(g/100cc)	0.1931	0.1922	0.0009	0.1926	0.0003	0.1924

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results	Uncertainty of Measurement (UM%): 5.00%				
Overall Mean (g/100cc)	Low	High	5% of Mean		
0.192	0.182	0.202	0.010		

Reported Result	
0.192	

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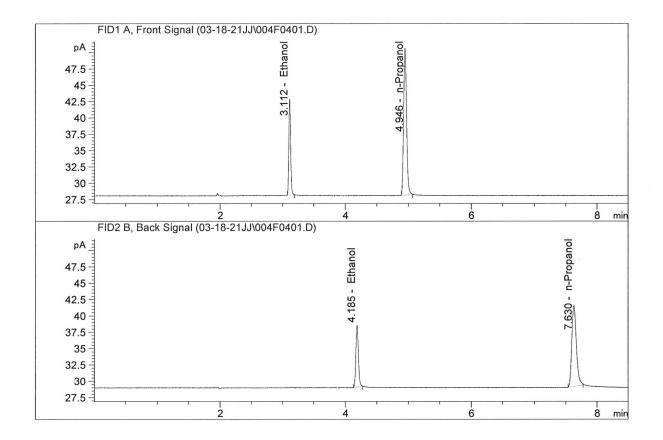
Calibration and control data are stored centrally.

Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager

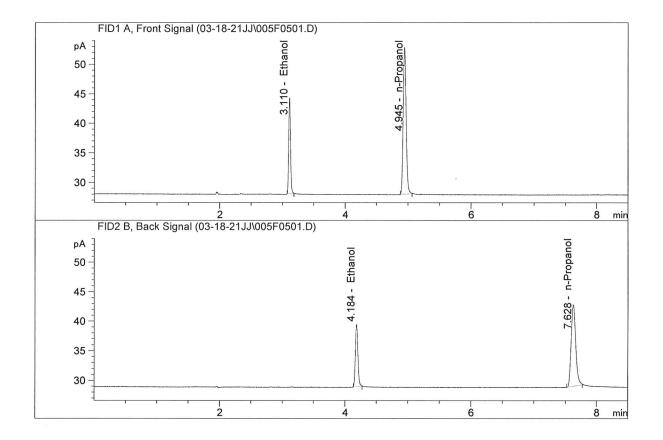
Sample Name : QC-2(1)-A Laboratory : Coeur d'Alene Injection Date : Mar 18, 2021 Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	29.31068	0.1924	g/100cc
2.	Ethanol	Column	2:	26.80071	0.1922	g/100cc
3.	n-Propanol	Column	1:	74.15984	1.0000	g/100cc
4.	n-Propanol	Column	2:	63.11005	1.0000	g/100cc



Sample Name : QC-2(1)-B
Laboratory : Coeur d' Alene
Injection Date : Mar 18, 2021
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	32.43296	0.1931	g/100cc
2.	Ethanol	Column	2:	29.77401	0.1922	g/100cc
3.	n-Propanol	Column	1:	81.79496	1.0000	g/100cc
4.	n-Propanol	Column	2:	70.10880	1.0000	g/100cc



VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: 0.08 FN09181807 Analysis Date(s): 18 Mar 2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0810	0.0809	0.0001	0.0809	0.0008	0.0805
(g/100cc)	0.0801	0.0801	0.0000	0.0801	0.0008	0.0803

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

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	

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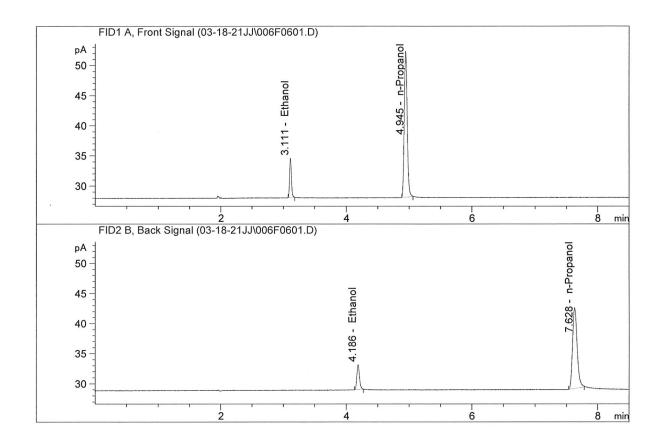
Calibration and control data are stored centrally.

Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager

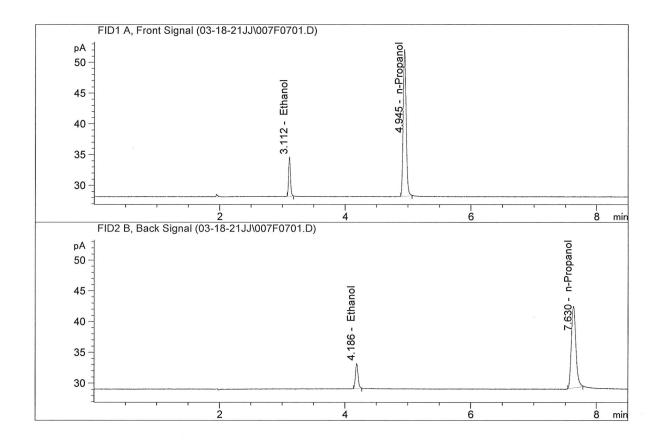
Sample Name : 0.08 FN09181807-A Laboratory : Coeur d' Alene Injection Date : Mar 18, 2021 Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column 1	.: 1	.3.20309	0.0810	g/100cc
2.	Ethanol	Column 2	2: 1	.2.02587	0.0809	g/100cc
3.	n-Propanol	Column 1	.: 7	9.77170	1.0000	g/100cc
4.	n-Propanol	Column 2	2: 6	8.84047	1.0000	g/100cc



Sample Name : 0.08 FN09181807-B Laboratory : Coeur d' Alene Injection Date : Mar 18, 2021 Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	12.90066	0.0801	g/100cc
2.	Ethanol	Column	2:	11.72194	0.0801	g/100cc
3.	n-Propanol	Column	1:	78.79917	1.0000	g/100cc
4.	n-Propanol	Column	2:	67.76366	1.0000	g/100cc



VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-2(2)

Analysis Date(s): 18 Mar 2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.1934	0.1955	0.0021	0.1944	0.0020	0.1054
(g/100cc)	0.1953	0.1976	0.0023	0.1964	0.0020	0.1954

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results	Uncertainty of Measurement (UM%): 5.00%				
Overall Mean (g/100cc)	Low	High	5% of Mean		
0.195	0.185	0.205	0.010		

Reported Result	
0.195	

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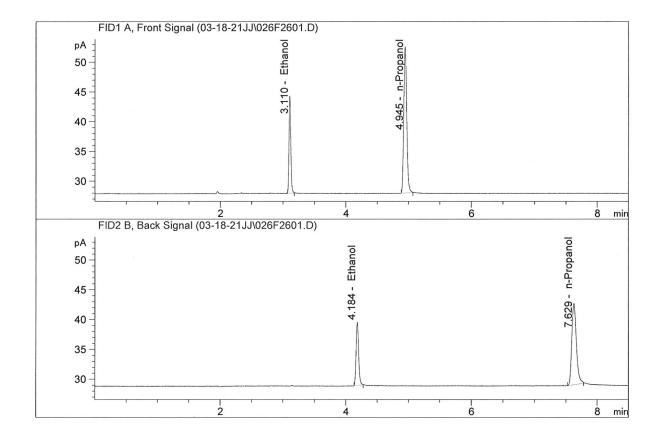
Calibration and control data are stored centrally.

Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager

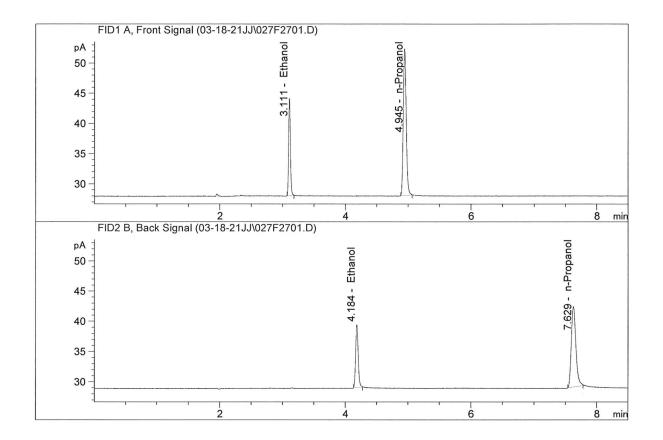
Sample Name : QC-2(2)-A
Laboratory : Coeur d' Alene
Injection Date : Mar 18, 2021
Method : ALCOHOL.M



#	Compound	Column		Area	Amount	Units
1.	Ethanol	Column	1:	32.29903	0.1934	g/100cc
2.	Ethanol	Column	2:	29.99150	0.1955	g/100cc
3.	n-Propanol	Column	1:	81.30781	1.0000	g/100cc
4.	n-Propanol	Column	2:	69.42850	1.0000	g/100cc



Sample Name : QC-2(2)-B
Laboratory : Coeur d' Alene
Injection Date : Mar 18, 2021
Method : ALCOHOL.M



#	Compound	Column		A	rea	Amou	nt	Units
1.	Ethanol	Column	1:	32.0	1665	0.195	3	g/100cc
2.	Ethanol	Column	2:	29.6	1943	0.197	6	g/100cc
3.	n-Propanol	Column	1:	79.8	2365	1.000	0	g/100cc
4.	n-Propanol	Column	2:	67.8	3549	1.000	0	g/100cc

VOLATILES DETERMINATION CASEFILE WORKSHEET

Laboratory No.: QC-1(2) Analysis Date(s): 19 Mar 2021

	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0749	0.0757	0.0008	0.0753	0.0008	0.0757
(g/100cc)	0.0757	0.0766	0.0009	0.0761	0.0008	0.0757

Analysis Method

Refer to Blood Alcohol Method #1

Instrument Information

Instrument information is stored centrally.

Refer to Instrument Method: Alcohol.m/.gcm, Volatiles.m/.gcm

Reporting of Results	Uncertainty of Measurement (UM%): 5.00%				
Overall Mean (g/100cc)	Low	High	5% of Mean		
0.075	0.071	0.079	0.004		

Reported Result	
0.075	

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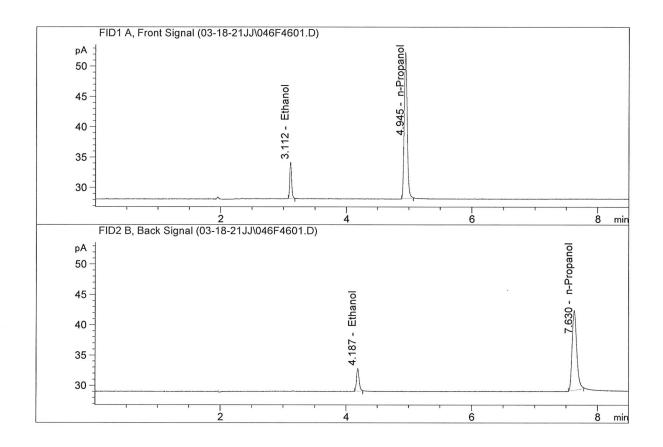
Calibration and control data are stored centrally.

Revision: 3

Issue Date: 12/28/2020

Issuing Authority: Quality Manager

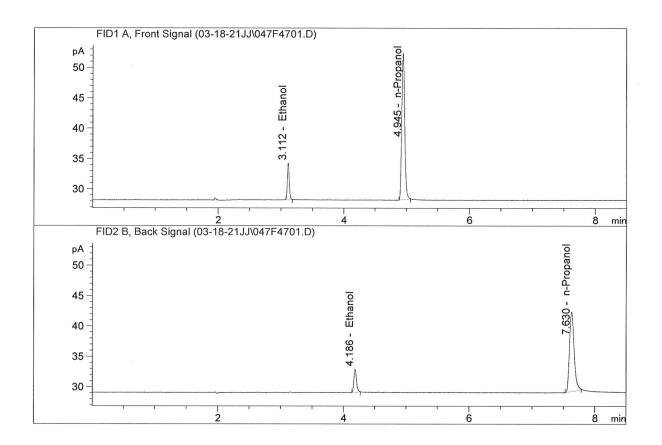
Sample Name : QC-1(2)-A Laboratory : Coeur d' Alene Injection Date : Mar 19, 2021 Method : ALCOHOL.M



#	Compound	Column		A	rea	Amount	;	Units	
1.	Ethanol	Column	1:	12.2	1608	0.0749		g/100cc	
2.	Ethanol	Column	2:	10.9	2336	0.0757		g/100cc	
3.	n-Propanol	Column	1:	79.9	2365	1.0000		g/100cc	
4.	n-Propanol	Column	2:	66.9	8241	1.0000		g/100cc	

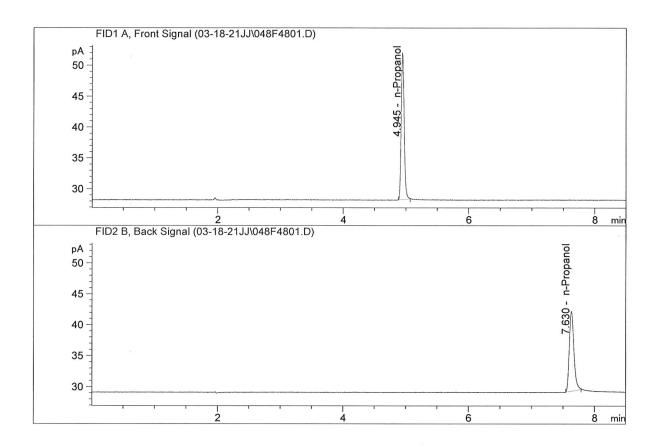


Sample Name : QC-1(2)-B
Laboratory : Coeur d' Alene
Injection Date : Mar 19, 2021
Method : ALCOHOL.M



ompound	Column	Area	Amount	Units
hanol	Column 1:	12.33402	0.0757	g/100cc
chanol	Column 2:	11.10425	0.0766	g/100cc
-Propanol	Column 1:	79.80653	1.0000	g/100cc
-Propanol	Column 2:	67.21648	1.0000	g/100cc
-	chanol chanol Propanol	chanol Column 1: chanol Column 2: Propanol Column 1:	Chanol Column 1: 12.33402 Chanol Column 2: 11.10425 Propanol Column 1: 79.80653	Chanol Column 1: 12.33402 0.0757 Chanol Column 2: 11.10425 0.0766 Propanol Column 1: 79.80653 1.0000

Sample Name : ISTD BLANK-2
Laboratory : Coeur d' Alene
Injection Date : Mar 19, 2021
Method : ALCOHOL.M

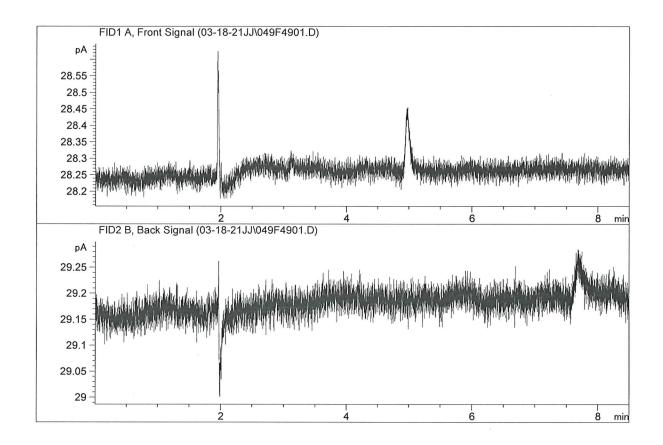


#	Compound	Column			Area	Amo	ount	Units
1.	Ethanol	Column	1:	0.	00000	0.00	000	g/100cc
2.	Ethanol	Column	2:	0.	00000	0.00	000	g/100cc
3.	n-Propanol	Column	1:	78.	23801	1.00	000	g/100cc
4.	n-Propanol	Column	2:	65.	88495	1.00	000	g/100cc



Sample Name : water-2

Laboratory: Coeur d' Alene
Injection Date: Mar 19, 2021
Method: ALCOHOL.M
Acq. Instrument: CN10742044-IT00725005



#	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

