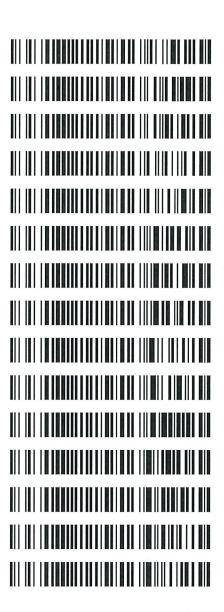
By Tamara Salazar at 4:29 pm, Jun 21, 2022

Worklist: 5999

WOTHING OF	00		
LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
P2022-1723	1	ВСК	Alcohol Analysis
P2022-1758	1	вск	Alcohol Analysis
P2022-1759	1	вск	Alcohol Analysis
P2022-1765	2	ВСК	Alcohol Analysis
P2022-1766	1	вск	Alcohol Analysis
P2022-1784	1	вск	Alcohol Analysis
P2022-1792	1	BCK	Alcohol Analysis
P2022-1793	1	вск	Alcohol Analysis
P2022-1803	1	BLOOD	Alcohol Analysis
P2022-1812	1	вск	Alcohol Analysis
P2022-1828	1	BCK	Alcohol Analysis
P2022-1836	1	BCK	Alcohol Analysis
P2022-1837	1	BCK	Alcohol Analysis
P2022-1838	1	BCK	Alcohol Analysis
P2022-1839	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:

ML600GB9897

Volatiles Quality Assurance Controls Run Date(s):

Calibration Date: (if different)

Worklist #:

Control level Level 2 Level 1 Multi-Component mixture: Expiration Jul-23 Jul-23 Exp: 1907007 1907006 Lot# Oct-24 Target Value 0.0764 0.2170 Lot# Acceptable Range 0.1953-0.2387 0.0688-0.0840 FN06041902 0.0795**Overall Results** 5999 0.0744 0.2169 g/100cc g/100cc g/100cc g/100cc g/100cc g/100cc

Ethanol Calibration Reference Material

Curve Fit:

Column 1

0.99999

Column2

0.99995

×					
	211739.3	9	141159.5	176449.4	N-Propanol:
	(+) 20%		(-) 20%	Average	Internal Standard
0.0008 0.5007	0.5011 0.	0.5003	0.450 - 0.550	0.500	500
0 #DIV/0!			0.360 - 0.440	0.400	400
0.001 0.2989	0.2984 0	0.2994	0.270 - 0.330	0.300	300
0.0007 0.1994	0.1991 0.	0.1998	0.180 - 0.220	0.200	200
0.0001 0.0999	0.0999 0.	0.1000	0.090 - 0.110	0.100	100
0.0011 0.0507	0.0513 0.	0.0502	0.045 - 0.055	0.050	50
ecision Mean	Column 2 Precision	Column 1	Acceptable Range	Target Value	Calibrator level

Aqueous Controls

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

Revision: 4

Issue Date: 01/24/2022 Issuing Authority: Quality Manager

Internal Standard Monitoring Worksheet

Worklist #:	5999	Run Date(s):	6/17/22
	ì		

Internal Standard Solution: 052022

Prep Date: 05/20/22

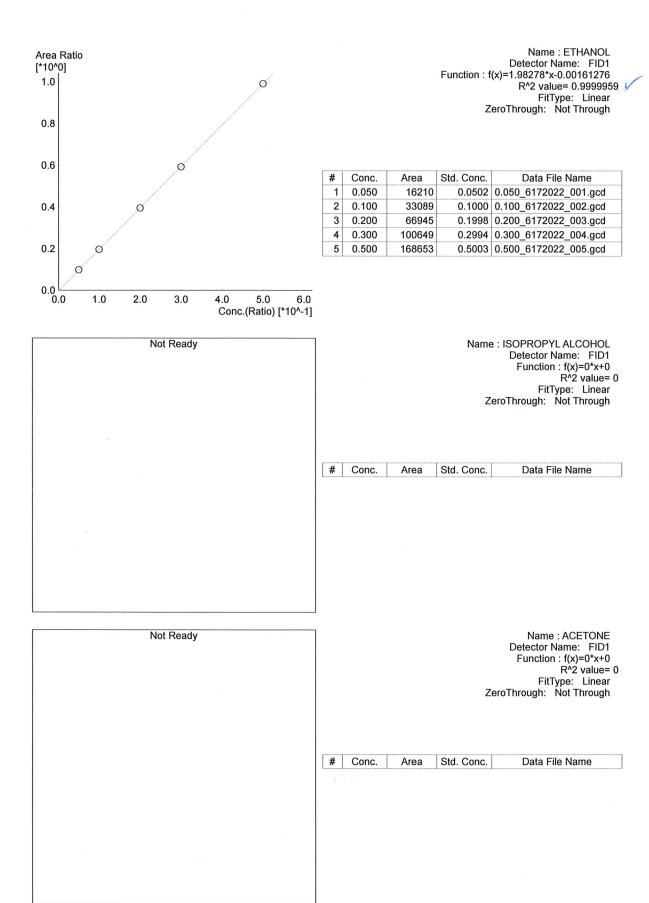
Exp Date: 11/20/22

Combined Average (-)20% 176449.4 141159.5	(+) 20 % 211739.3
---	-----------------------------

Revision: 4

Revision: 4 Issue Date: 01/24/2022

		Calibra				=====	
_aboratory: Pocatello nstrument Name :					,,,		
<data file="">> Method File Batch File Date Acquired Date Created Date Modified</data>	:C:\LabSolutions :C:\LabSolutions :6/17/2022 2:12 :6/17/2022 2:08 :6/18/2022 8:26	:42 PM	2 RCV 2 RCV	ALCOHOL i-17-22 pc	gcm ost run batc	h.gcb	
	Not Ready					Z	Name : METHANOL Detector Name: FID1 Function : f(x)=0*x+0 R^2 value= 0 FitType: Linear eroThrough: Not Through
			#	Conc.	Area	Std. Conc.	Data File Name
	Not Ready					Z	Name : ACETALDEHYDE Detector Name: FID1 Function : f(x)=0*x+0 R^2 value= 0 FitType: Linear eroThrough: Not Through
			#	Conc.	Area	Std. Conc.	Data File Name



Not Ready	Name : DFE
	Detector Name: FID1 Function : f(x)=0*x+0
	R^2 value= 0
	FitType: Linear
	ZeroThrough: Not Through
	# Conc. Area Std. Conc. Data File Name
,	7
6	
	•
Not Ready	Name : TFE
	Detector Name: FID1 Function : f(x)=0*x+0
	R^2 value= 0
	FitType: Linear ZeroThrough: Not Through
	Zoromough. Not mough
7	
	[
	# Conc. Area Std. Conc. Data File Name
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Not Doody	Name - ACETAL DELIVE
Not Ready	Name : ACETALDEHYDE Detector Name: FID2
	Function: $f(x)=0*x+0$
	R [∖] 2 value= 0 FitType: Linear
,	ZeroThrough: Not Through
	/
	# Conc. Area Std. Conc. Data File Name
	u u
I .	I .

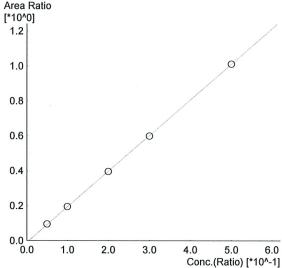
Not Ready

Area Ratio
[*10^0]

Name : METHANOL
Detector Name: FID2
Function : f(x)=0*x+0
R^2 value= 0

FitType: Linear ZeroThrough: Not Through

Conc. Area Std. Conc. Data File Name



Name: ETHANOL
Detector Name: FID2
Function: f(x)=2.03663*x-0.00964281
R^2 value= 0.9999501
FitType: Linear
ZeroThrough: Not Through

#	Conc.	Area	Std. Conc.	Data File Name
1	0.050	16377	0.0513	0.050_6172022_001.gcd
2	0.100	34167	0.0999	0.100_6172022_002.gcd
3	0.200	70279	0.1991	0.200_6172022_003.gcd
4	0.300	106439	0.2984	0.300_6172022_004.gcd
5	0.500	179814	0.5011	0.500 6172022 005.gcd

Not Ready

Name : ACETONE
Detector Name: FID2
Function : f(x)=0*x+0
R*2 value= 0
FitType: Linear
ZeroThrough: Not Through

Conc. Area Std. Conc. Data File Name



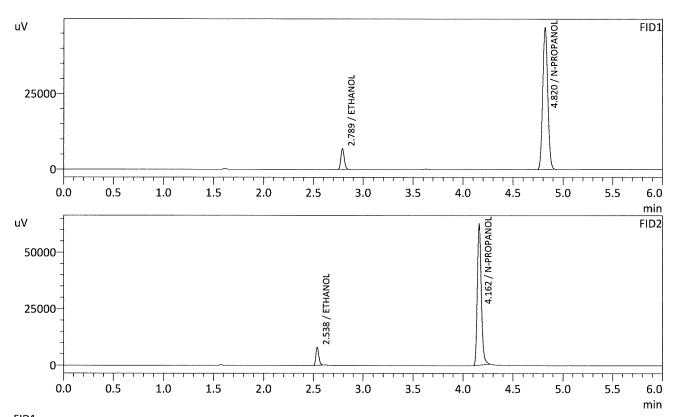
Not Ready	Name : ISOPROPYL ALCOHOL Detector Name: FID2 Function : f(x)=0*x+0 R^2 value= 0 FitType: Linear ZeroThrough: Not Through
	# Conc. Area Std. Conc. Data File Name
Not Ready	Name : DFE Detector Name: FID2 Function : f(x)=0*x+0
	R ^À Ź value= 0 FitType: Linear ZeroThrough: Not Through
,	# Conc. Area Std. Conc. Data File Name
	# Outc. Area Ott. Sono. Data File Name
Not Ready	Name : TFE Detector Name: FID2 Function : f(x)=0*x+0 R^2 value= 0 FitType: Linear ZeroThrough: Not Through
	# Conc. Area Std. Conc. Data File Name
•	

Sample Name Vial # : 0.050

: 0.050_6172022_001.gcd : ALCOHOL.gcm

Data Filename Method Filename

Batch Filename : 6-17-22 post run batch.gcb
Date Acquired : 6/17/2022 1:33:59 PM
Date Processed : 6/18/2022 8:26:39 AM
C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL	0.0502	g/100cc	16210	6890
ISOPROPYL ALCOHOL		g/100cc		,
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	165276	46944
DFE		g/100cc		
TFE		g/100cc	ya se	

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.0513	g/100cc	16377	7963
ACETONE		g/100cc	w	
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	172515	62400
DFE		g/100cc		
TFE		g/100cc		



Sample Name Vial # Data Filename : 0.100 : 2

: 0.100_6172022_002.gcd

Method Filename : 0.100_6172022_002.gcd

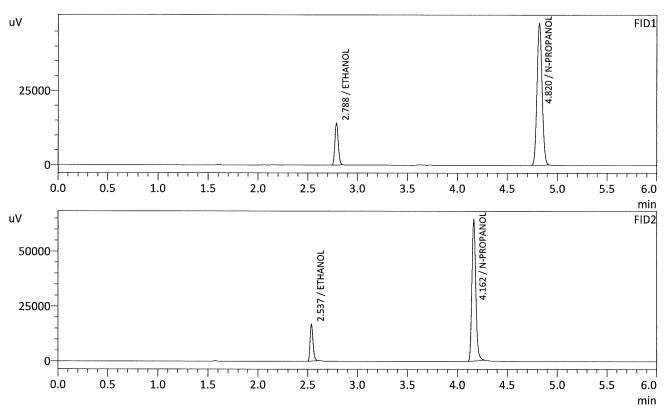
Method Filename : ALCOHOL.gcm

Batch Filename : 6-17-22 post run batch.gcb

Date Acquired : 6/17/2022 1:43:29 PM

Date Processed : 6/18/2022 8:26:40 AM

C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		***
ETHANOL	0.1000	g/100cc	33089	14119
ISOPROPYL ALCOHOL		g/100cc		**
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	168086	47774
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.0999	g/100cc	34167	16901
ACETONE		g/100cc		***
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	176219	64177
DFE		g/100cc		*-
TFE		g/100cc		



: 0.200 : 3

Data Filename

: 0.200_6172022_003.gcd

Method Filename

: ALCOHOL.gcm

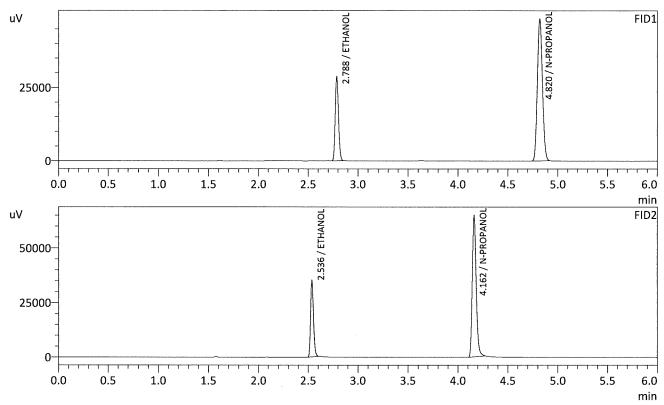
SACOHOL.gcm

Batch Filename : 6-17-22 post run batch.gcb

Date Acquired : 6/17/2022 1:52:49 PM

Date Processed : 6/18/2022 8:26:42 AM

C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc	10.10	***
ACETALDEHYDE		g/100cc		
ETHANOL	0.1998	g/100cc	66945	28615
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	169669	48255
DFE		g/100cc	ya. 14	~~
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.1991	g/100cc	70279	35040
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	177539	64631
DFE		g/100cc		
TFE		g/100cc	***	



: 0.300

Data Filename : 0.300_6172022_004.gcd

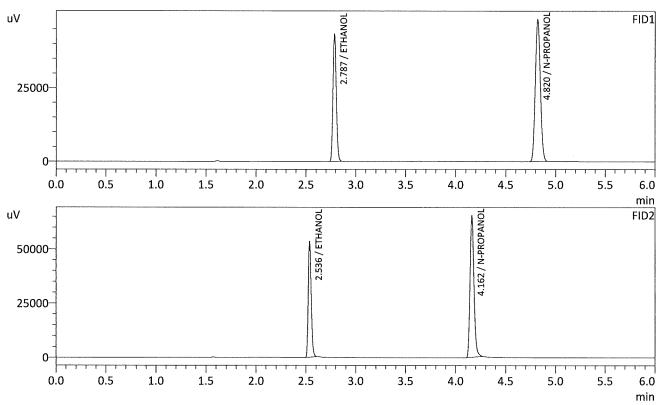
Method Filename : ALCOHOL.gcm

Batch Filename : 6-17-22 post run batch.gcb

Date Acquired : 6/17/2022 2:02:34 PM

Date Processed : 6/18/2022 8:26:43 AM

C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL	0.2994	g/100cc	100649	43002
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	169968	48146
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.2984	g/100cc	106439	53034
ACETONE		g/100cc	***	
ISOPROPYL ALCOHOL		g/100cc		be at
N-PROPANOL	0.0000	g/100cc	177936	65057
DFE		g/100cc		
TFE		g/100cc		



: 0.500

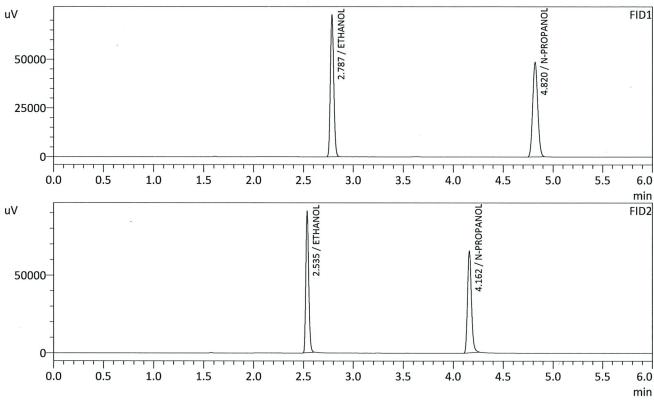
Data Filename Method Filename

Batch Filename Date Acquired

: 0.500_6172022_005.gcd : ALCOHOL.gcm : 6-17-22 post run batch.gcb : 6/17/2022 2:12:06 PM : 6/18/2022 8:26:44 AM

Date Processed

C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL	0.5003	g/100cc	168653	72019
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	170276	48380
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.5011	g/100cc	179814	90166
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	177849	65249
DFE		g/100cc		
TFE		g/100cc		



: INT STD BLK 1

: 6

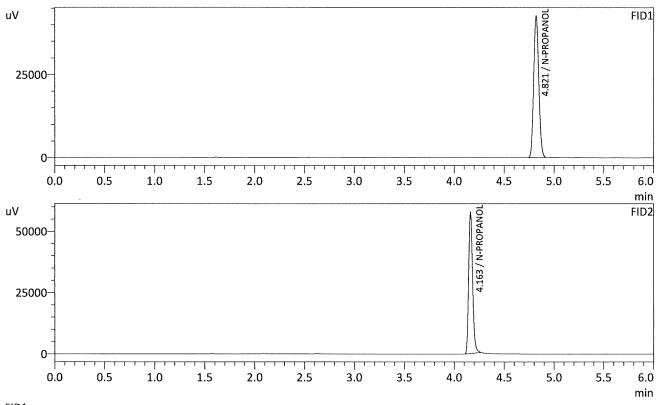
: INT STD BLK 1_6172022_006.gcd : ALCOHOL.gcm

Data Filename Method Filename

Batch Filename Date Acquired

: 6-17-22 post run batch.gcb : 6/17/2022 2:21:23 PM : 6/18/2022 8:26:47 AM

Date Processed C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL	**	g/100cc		
ACETALDEHYDE		g/100cc	***	
ETHANOL		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	149767	42468
DFE		g/100cc	****	
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc	***	
METHANOL		g/100cc		
ETHANOL		g/100cc		
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	156954	57250
DFE		g/100cc		
TFE		g/100cc		



: MULTI-COMP MIX

: MULTI-COMP MIX_6172022_007.gcd

Data Filename Method Filename

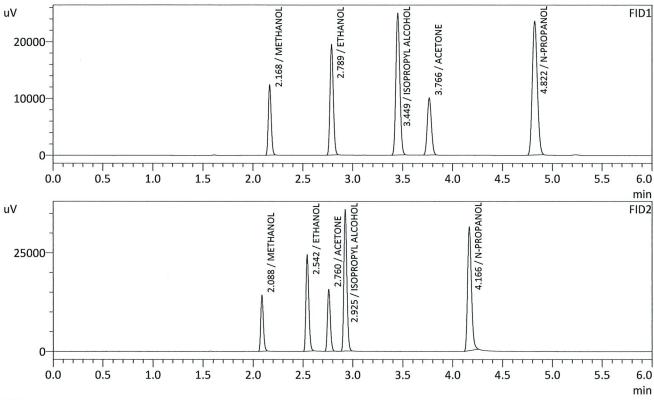
Batch Filename **Date Acquired**

: ALCOHOL.gcm : 6-17-22 post run batch.gcb

Date Processed

: 6/17/2022 2:31:07 PM : 6/18/2022 8:26:48 AM

C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



FID1				
Name	Conc.	Unit	Area	Height
METHANOL	0.0000	g/100cc	24704	12320
ACETALDEHYDE		g/100cc		
ETHANOL	0.2742	g/100cc	44458	19378
ISOPROPYL ALCOHOL	0.0000	g/100cc	68924	24722
ACETONE	0.0000	g/100cc	28498	9979
N-PROPANOL	0.0000	g/100cc	82014	23492
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL	0.0000	g/100cc	26236	14131
ETHANOL	0.2833	g/100cc	47837	24322
ACETONE	0.0000	g/100cc	30935	15514
ISOPROPYL ALCOHOL	0.0000	g/100cc	74042	35684
N-PROPANOL	0.0000	g/100cc	84294	31258
DFE		g/100cc		
TFE		g/100cc		



: INT STD BLK 2

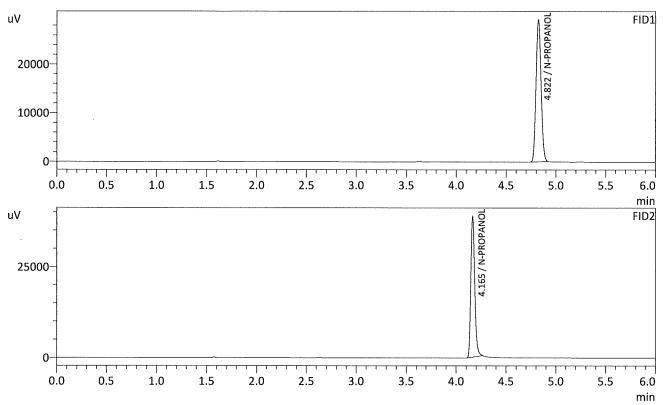
: 8 : INT STD BLK 2_6172022_008.gcd : ALCOHOL.gcm

Data Filename Method Filename

Batch Filename Date Acquired

: 6-17-22 post run batch.gcb : 6/17/2022 2:40:39 PM

Date Processed : 6/18/2022 8:26:49 AM C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		***
ACETALDEHYDE		g/100cc		
ETHANOL		g/100cc		** **
ISOPROPYL ALCOHOL		g/100cc		into best
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	102332	29157
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL		g/100cc		
ACETONE		g/100cc		A4 44
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	105638	38649
DFE		g/100cc		
TFE		g/100cc		



VOLATILES BAC CASEFILE WORKSHEET

Laboratory N	o.: QC1-1		Item #		Analysis Date(s):	6/17/2022
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0745	0.0750	0.0005	0.0747	0.0006	0.0744
(g/100cc)	0.0739	0.0744	0.0005	0.0741	0.0006	0.0744
Analysis Metl	ıod					
Refer to Blood	Alcohol Metho	d #1				
Instrument In	formation			Instrument i	information is store	ed centrally.
Refer to Instrume	nt Method: Alcoh	nol.m/.gcm, Volat	iles.m/.gcm			
Reporting of 1	Results		Uncertaint	y of Measure	ment (UM%):	5.00%
Ove	rall Mean (g/10	0cc)	Low	High	5% of	Mean
	0.074		0.070	0.078	0.0	04
		R	eported Resu	ılt		
,			0.074			

Page: 1 of 1

Calibration and control data are stored centrally.

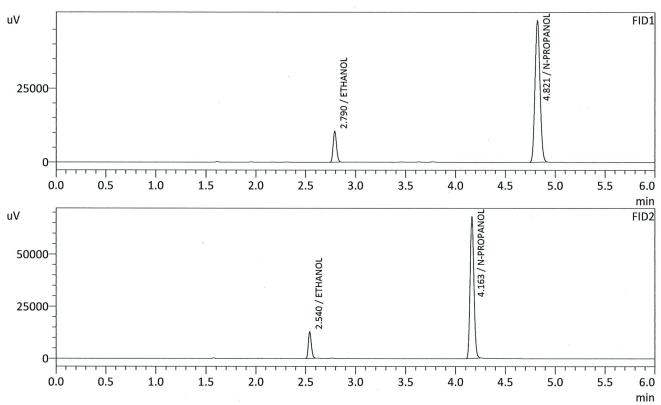
Revision: 1

Issue Date: 12/29/2021

Issuing Authority: Quality Manager

: QC-1-1-A

Data Filename : QC-1-1-A_6172022_009.gcd
Method Filename : ALCOHOL.gcm
Batch Filename : 6-17-22 post run batch.gcb
Date Acquired : 6/17/2022 2:49:56 PM
Date Processed : 6/18/2022 8:26:50 AM
C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL	0.0745	g/100cc	24664	10440
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	168795	47853
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.0750	g/100cc	25721	12700
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	179525	67331
DFE		g/100cc		
TFE		g/100cc		

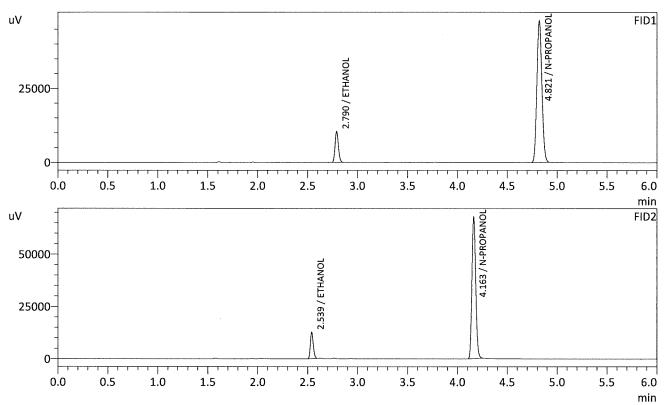


Sample Name Vial # : QC-1-1-B

: 10 : QC-1-1-B_6172022_010.gcd

Data Filename Method Filename

Method Filename : ALCOHOL.gcm
Batch Filename : 6-17-22 post run batch.gcb
Date Acquired : 6/17/2022 2:59:41 PM
Date Processed : 6/18/2022 8:26:52 AM
C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL	0.0739	g/100cc	24456	10394
ISOPROPYL ALCOHOL		g/100cc	***	
ACETONE		g/100cc	. 	
N-PROPANOL	0.0000	g/100cc	168591	47739
DFE		g/100cc		
TFE		g/100cc	**	

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.0744	g/100cc	25531	12560
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		**
N-PROPANOL	0.0000	g/100cc	179797	67341
DFE		g/100cc		
TFE		g/100cc	***	**



VOLATILES BAC CASEFILE WORKSHEET

Laboratory N	o.: 0.080 QA		Item #		Analysis Date(s):	6/17/2022
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0816	0.0821	0.0005	0.0818	0.0001	0.0010
(g/100cc)	0.0817	0.0821	0.0004	0.0819	0.0001	0.0818
Analysis Meth	ıod					
Refer to Blood	Alcohol Metho	d #1				
Instrument In	formation			Instrument	information is store	ed centrally.
Refer to Instrume	nt Method: Alcoh	ol.m/.gcm, Volat	iles.m/.gcm			
Reporting of I	Results		Uncertaint	y of Measure	ment (UM%):	5.00%
Over	rall Mean (g/10	0cc)	Low	High	5% of	Mean
	0.081		0.076	0.086	0.0	005
		R	eported Resu	ılt		
	-		0.081			

Page: 1 of 1

Calibration and control data are stored centrally.

Revision: 1

Issue Date: 12/29/2021

Issuing Authority: Quality Manager

: 0.08 QA - A

: 11

Sample Name Vial # Data Filename

: 0.08 QA - A_6172022_011.gcd

Method Filename Batch Filename

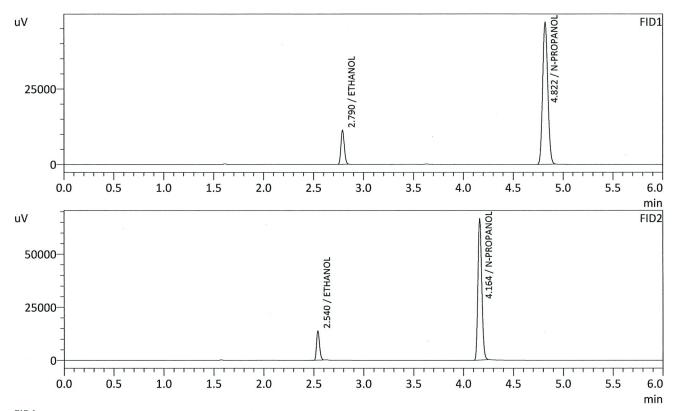
Date Acquired

: ALCOHOL.gcm : 6-17-22 post run batch.gcb : 6/17/2022 3:09:12 PM

Date Processed

: 6/18/2022 8:26:53 AM

C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL	0.0816	g/100cc	26526	11242
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	165451	46889
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.0821	g/100cc	27780	13755
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	176173	66104
DFE		g/100cc		
TFE		g/100cc		

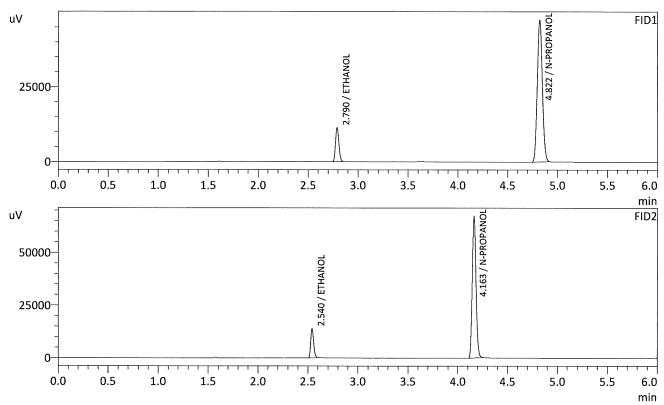


Sample Name Vial # : 0.08 QA - B

: 12

Data Filename Method Filename

: 12 : 0.08 QA - B_6172022_012.gcd : ALCOHOL.gcm : 6-17-22 post run batch.gcb : 6/17/2022 3:18:29 PM : 6/18/2022 8:26:54 AM Batch Filename Date Acquired **Date Processed** C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL	0.0817	g/100cc	26737	11329
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	166665	47317
DFE		g/100cc	No. 400	
TFE		g/100cc		**

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		***
ETHANOL	0.0821	g/100cc	27993	13846
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	177608	66584
DFE		g/100cc		
TFE		g/100cc		



VOLATILES BAC CASEFILE WORKSHEET

Laboratory N	o.: QC2-1		Item #		Analysis Date(s):	6/17/2022
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.2187	0.2165	0.0022	0.2176	0.0014	0.2160
(g/100cc)	0.2173	0.2152	0.0021	0.2162	0.0014	0.2169
Analysis Meth	ıod					
Refer to Blood	Alcohol Metho	d #1				
¥						
Instrument In	formation			Instrument i	information is store	ed centrally.
Refer to Instrume	nt Method: Alcol	nol.m/.gcm, Volat	iles.m/.gcm			
Reporting of	Results		Uncertaint	y of Measure	ment (UM%):	5.00%
Ove	rall Mean (g/10	0cc)	Low	High	5% of	Mean
	0.216		0.205	0.227	0.0	11
		R	eported Resu	ılt		
			0.216			

Calibration and control data are stored centrally.

Revision: 1

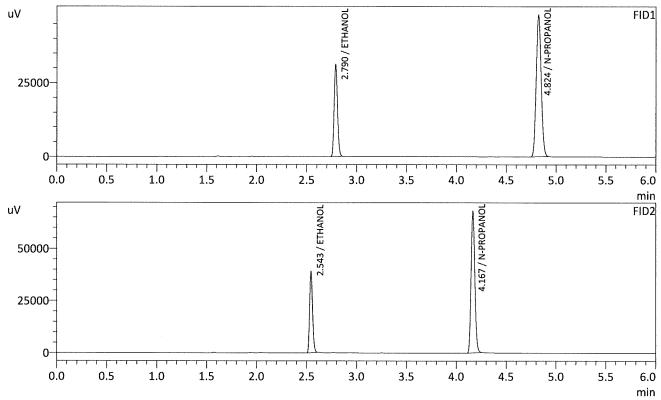
Issue Date: 12/29/2021
Issuing Authority: Quality Manager

Sample Name Vial # : QC-2-1-A

: 31

Data Filename Method Filename : QC-2-1-A_6172022_031.gcd : ALCOHOL.gcm

: 6-17-22 post run batch.gcb : 6/17/2022 6:19:32 PM : 6/18/2022 8:27:18 AM Batch Filename Date Acquired Date Processed C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		No 44
ACETALDEHYDE		g/100cc		
ETHANOL	0.2187	g/100cc	72965	30991
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	168879	48056
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.2165	g/100cc	77617	38599
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	179926	67719
DFE		g/100cc		
TFE		g/100cc		***



: QC-2-1-B

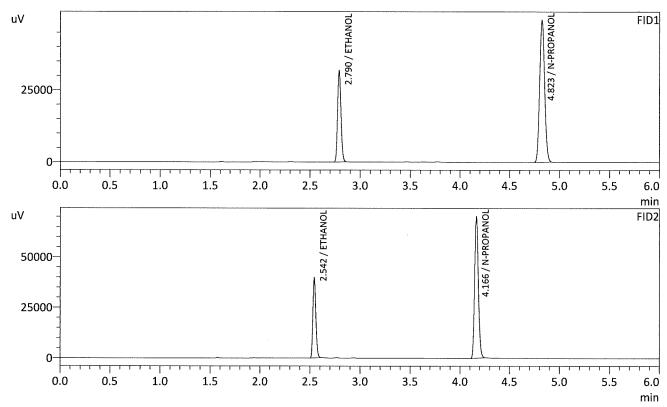
: 32

Sample Name Vial # Data Filename

: QC-2-1-B_6172022_032.gcd

Method Filename : ALCOHOL.gcm

Batch Filename : 6-17-22 post run batch.gcb
Date Acquired : 6/17/2022 6:29:05 PM
Date Processed : 6/18/2022 8:27:20 AM
C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE	ANT 200	g/100cc		
ETHANOL	0.2173	g/100cc	74492	31619
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	173500	49391
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		P. 4
ETHANOL	0.2152	g/100cc	79328	39582
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc	ale va	
N-PROPANOL	0.0000	g/100cc	184989	69911
DFE		g/100cc		
TFE	***	g/100cc		



VOLATILES BAC CASEFILE WORKSHEET

Laboratory N	o.: QC1-2		Item #		Analysis Date(s):	6/17/2022
	Column 1 FID A	Column 2 FID B	Column Precision	Mean Value	Sample A-B Difference	Over-all Mean
Sample Results	0.0791	0.0795	0.0004	0.0793	0.0004	0.0705
(g/100cc)	0.0795	0.0799	0.0004	0.0797	0.0004	0.0795
Analysis Meth	nod					
Refer to Blood	Alcohol Metho	d #1				
Instrument In	formation			Instrument	information is store	ed centrally.
Refer to Instrume	nt Method: Alcoh	nol.m/.gcm, Volat	iles.m/.gcm			
Reporting of I	Results		Uncertaint	y of Measure	ment (UM%):	5.00%
Ove	rall Mean (g/10	0cc)	Low	High	5% of	Mean
	0.079		0.075	0.083	0.0	04
		R	eported Resu	ılt 		
			0.079			

Page: 1 of 1

Calibration and control data are stored centrally.

Revision: 1

Issue Date: 12/29/2021

Issuing Authority: Quality Manager

: QC1-2-A

: 45 : QC1-2-A_6172022_045.gcd : ALCOHOL.gcm

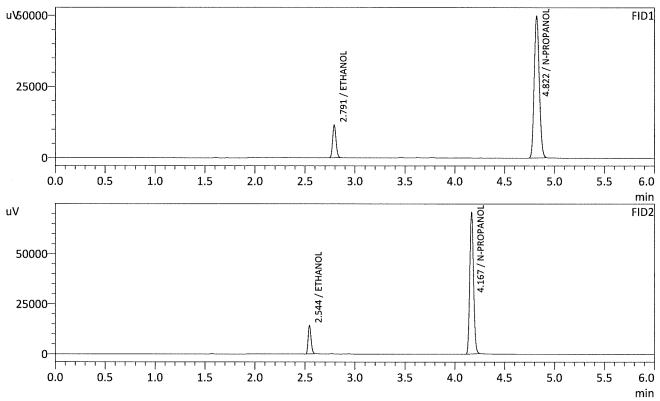
Data Filename Method Filename

Batch Filename Date Acquired

: 6-17-22 post run batch.gcb : 6/17/2022 8:32:35 PM : 6/18/2022 8:27:36 AM

Date Processed

C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



FID1				
Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL	0.0791	g/100cc	27194	11467
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc	w ea	
N-PROPANOL	0.0000	g/100cc	175043	49805
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		EA 40
METHANOL		g/100cc	N	
ETHANOL	0.0795	g/100cc	28510	14057
ACETONE		g/100cc	***	
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	187176	70232
DFE		g/100cc		
TFE		g/100cc	Av ==	



: QC1-2-B

: 46

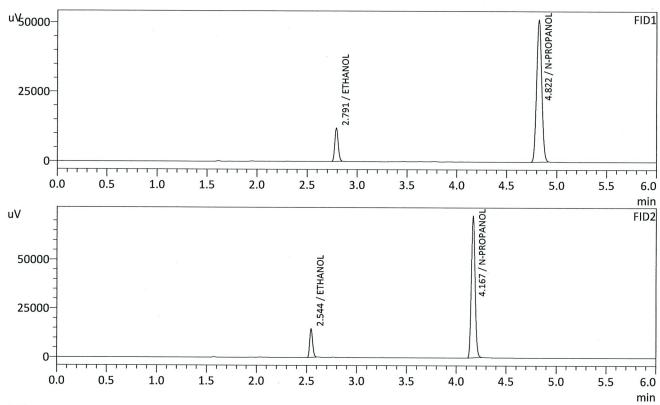
Sample Name Vial # Data Filename

: QC1-2-B_6172022_046.gcd

Method Filename

: ALCOHOL.gcm

Batch Filename : 6-17-22 post run batch.gcb
Date Acquired : 6/17/2022 8:42:21 PM
Date Processed : 6/18/2022 8:27:38 AM
C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL	0.0795	g/100cc	28003	11833
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	179359	51109
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL	0.0799	g/100cc	29378	14476
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	191713	72214
DFE		g/100cc		
TFE		g/100cc		



: INT STD BLK 3

: 47

: INT STD BLK 3_6172022_047.gcd

Data Filename Method Filename

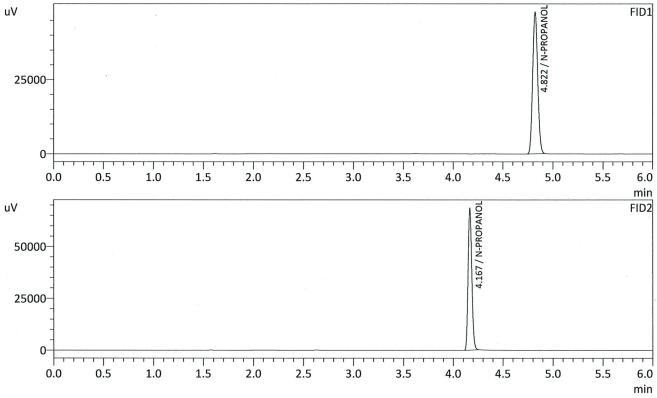
: ALCOHOL.gcm

Batch Filename **Date Acquired**

: 6-17-22 post run batch.gcb : 6/17/2022 8:51:50 PM : 6/18/2022 8:27:39 AM

Date Processed

C:\LabSolutions\Data\2022\6-17-22 RC\ALCOHOL.gcm



Name	Conc.	Unit	Area	Height
METHANOL		g/100cc		
ACETALDEHYDE		g/100cc		
ETHANOL		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
ACETONE		g/100cc		
N-PROPANOL	0.0000	g/100cc	166739	47666
DFE		g/100cc		
TFE		g/100cc		

Name	Conc.	Unit	Area	Height
ACETALDEHYDE		g/100cc		
METHANOL		g/100cc		
ETHANOL		g/100cc		
ACETONE		g/100cc		
ISOPROPYL ALCOHOL		g/100cc		
N-PROPANOL	0.0000	g/100cc	179521	68066
DFE		g/100cc		
TFE		g/100cc		



Region 5 Pocatello Blood Alcohol Analysis Batch Table

Shimadzu Nexis GC-2030 Serial Number: C12255850662 Shimadzu HS-20 Serial Number: C12595700014 LabSolutions Version 5.98 Copyright (C) 2008-2019 Shimadzu Corporation. All rights reserved.

Vial#	Sample Name	Sample Type	Method File	Data File	Level#
1	0.050	1:Standard:(I)	ALCOHOL.gcm	0.050_6172022_001.gcd	1
2	0.100	1:Standard:(R)	ALCOHOL.gcm	0.100 6172022 002.gcd	2
3	0.200	1:Standard:(R)	ALCOHOL.gcm	0.200 6172022 003.gcd	3
4	0.300	1:Standard:(R)	ALCOHOL.gcm	0.300_6172022_004.gcd	4
5	0.500	1:Standard:(R)	ALCOHOL.gcm	0.500 6172022 005.gcd	5
6	INT STD BLK 1	0:Unknown	ALCOHOL.gcm	INT STD BLK 1_6172022_006.gcd	0
7	MULTI-COMP MIX	0:Unknown	ALCOHOL.gcm		1
8	INT STD BLK 2	0:Unknown	ALCOHOL.gcm	INT STD BLK 2 6172022 008.gcd	0
9	QC-1-1-A	0:Unknown	ALCOHOL.gcm	QC-1-1-A 6172022 009.gcd	0
10	QC-1-1-B	0:Unknown	ALCOHOL.gcm	QC-1-1-B_6172022_010.gcd	0
11	0.08 QA - A	0:Unknown	ALCOHOL.gcm	0.08 QA - A 6172022 011.gcd	0
12	0.08 QA - B	0:Unknown	ALCOHOL.gcm	0.08 QA - B_6172022_012.gcd	0
13	P2022-1723-1-A	0:Unknown	ALCOHOL.gcm	P2022-1723-1-A_6172022_013.gcd	0
14	P2022-1723-1-B	0:Unknown	ALCOHOL.gcm	P2022-1723-1-B_6172022_014.gcd	0
15	P2022-1758-1-A	0:Unknown	ALCOHOL.gcm	P2022-1758-1-A 6172022 015.gcd	0
16	P2022-1758-1-B	0:Unknown	ALCOHOL.gcm	P2022-1758-1-B 6172022 016.gcd	0
17	P2022-1759-1-A	0:Unknown	ALCOHOL.gcm	P2022-1759-1-A 6172022 017.gcd	0
18	P2022-1759-1-B	0:Unknown	ALCOHOL.gcm	P2022-1759-1-B 6172022 018.gcd	0
19	P2022-1765-2-A	0:Unknown	ALCOHOL.gcm	P2022-1765-2-A_6172022_019.gcd	0
20	P2022-1765-2-B	0:Unknown	ALCOHOL.gcm	P2022-1765-2-B_6172022_020.gcd	0
21	P2022-1766-1-A	0:Unknown	ALCOHOL.gcm	P2022-1766-1-A 6172022 021.gcd	0
22	P2022-1766-1-B	0:Unknown	ALCOHOL.gcm	P2022-1766-1-B 6172022 022.gcd	0
23	P2022-1784-1-A	0:Unknown	ALCOHOL.gcm	P2022-1784-1-A_6172022_023.gcd	0
24	P2022-1784-1-B	0:Unknown	ALCOHOL.gcm	P2022-1784-1-B_6172022_024.gcd	0
25	P2022-1792-1-A	0:Unknown	ALCOHOL.gcm	P2022-1792-1-A 6172022 025.gcd	0
26	P2022-1792-1-B	0:Unknown	ALCOHOL.gcm	P2022-1792-1-B 6172022 026.gcd	0
27	P2022-1793-1-A	0:Unknown	ALCOHOL.gcm	P2022-1793-1-A 6172022 027.gcd	0
28	P2022-1793-1-B	0:Unknown	ALCOHOL.gcm	P2022-1793-1-B 6172022 028.gcd	0
29	P2022-1803-1-A	0:Unknown	ALCOHOL.gcm	P2022-1803-1-A_6172022_029.gcd	0
30	P2022-1803-1-B	0:Unknown	ALCOHOL.gcm	P2022-1803-1-B 6172022 030.gcd	0
31	QC-2-1-A	0:Unknown	ALCOHOL.gcm	QC-2-1-A 6172022 031.gcd	0
32	QC-2-1-B	0:Unknown	ALCOHOL.gcm	QC-2-1-B_6172022_032.gcd	0
33	P2022-1812-1-A	0:Unknown	ALCOHOL.gcm	P2022-1812-1-A 6172022 033.gcd	0
34	P2022-1812-1-B	0:Unknown	ALCOHOL.gcm	P2022-1812-1-B_6172022_034.gcd	0
35	P2022-1828-1-A	0:Unknown	ALCOHOL.gcm	P2022-1828-1-A 6172022 035.gcd	0
36	P2022-1828-1-B	0:Unknown	ALCOHOL.gcm	P2022-1828-1-B 6172022 036.gcd	0
37	P2022-1836-1-A	0:Unknown	ALCOHOL.gcm	P2022-1836-1-A 6172022 037.gcd	0
38	P2022-1836-1-B	0:Unknown	ALCOHOL.gcm	P2022-1836-1-B 6172022 038.gcd	0
39	P2022-1837-1-A	0:Unknown	ALCOHOL.gcm	P2022-1837-1-A_6172022_039.gcd	0
40	P2022-1837-1-B	0:Unknown	ALCOHOL.gcm	P2022-1837-1-B 6172022_040.gcd	0
41	P2022-1838-1-A	0:Unknown	ALCOHOL.gcm	P2022-1838-1-A_6172022_041.gcd	0
42	P2022-1838-1-B	0:Unknown	ALCOHOL.gcm	P2022-1838-1-B_6172022_042.gcd	0
43	P2022-1839-1-A	0:Unknown	ALCOHOL.gcm	P2022-1839-1-A_6172022_043.gcd	0
44	P2022-1839-1-B	0:Unknown	ALCOHOL.gcm	P2022-1839-1-B_6172022_044.gcd	0
45	QC1-2-A	0:Unknown	ALCOHOL.gcm	QC1-2-A_6172022_045.gcd	0
46	QC1-2-B	0:Unknown	ALCOHOL.gcm	QC1-2-B_6172022_046.gcd	0
47	INT STD BLK 3	0:Unknown	ALCOHOL.gcm	INT STD BLK 3_6172022_047.gcd	0



Request for Departure from an Analytical Method or Quality Standard

Deviation Number (assigned by QM):

Date of Request: 1/21/2022

Requestor/Discipline: Melissa (Nikka) Bradley/Blood Alcohol

<u>Analytical Method/Quality Standard, Revision #:</u> AM#1 Analysis for Volatiles by Headspace GC/ 4.3.9

Temporary or Permanent Deviation: Permanent

Scope of Deviation There is a noticeable increased drift of internal standard (n-propanol signals) from the calibrators, beginning of the run and towards the end of the sample run that is consistent in multiple batches of blood alcohol runs. Because all the samples that are analyzed are being compared to calibrators that are performed at the beginning of the run, the n-propanol signal of end samples tend to be outside or close to being outside of the +/- 20% of the mean value from the calibration curve used Despite this drift the values of known control samples are within acceptable limits.

Deviation Request

4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts throughout the calibration curve samples.

Requesting that the internal standard monitoring average be changed to average the aqueous and matrix controls within the run.

4.3.9.1.1 The average values for the internal standard will be established by averaging the IS counts from the aqueous control and all matrix blood control samples.

Technical Justification for Analytical Method Deviations:

The designed purpose of the internal standard monitoring is to evaluate the quality of injection of each sample. There is a gradual increase of internal standard response from the beginning of the batch (calibrators and early samples) to the end that is inherent to the current instrument set up as shown in trends from previous batches in multiple laboratories. Attempts to pre-condition/warm up the instrument using by running a pre-batch sequence utilizing old calibrator/blank samples prior to running a new calibration curve did not appear to minimize this occurrence. Furthermore, it can be seen that the drifting trend is not due to the extraction procedure because some of the later batch samples were extracted prior to the samples that are injected during the run. It is worth noting that despite this

M

trend, the values of the known control samples are still within the specified acceptable range. By utilizing known control n-propanol signals throughout the batch, any potential drift will be taken into account while still being able to monitor a possible mis-injection or partial injection throughout the batch/sequence.

This deviation will have an expiration date of July 1st, 2022.

Technical Review					
Departure approved Comments: Forms will be updated to reflect t	he new process concurrent with the deviation.				
Departure Not Approved Comments:					
Approver: Jewn John Title: Discipline Lead	Date: 1/21/22				
Quality Review					
Quality Approver: Title: Date:					

