

Loadlist-Alcohol Reference Solution Verification

Location	Sample
1	Volatiles Mix
2	Blank
3	Cerilliant 25
4	Cerilliant 100
5	Cerilliant 200
6	Cerilliant 400
7	Blank
8	Lipomed 50
9	357
10	344
11	342
12	347
13	349
14	350
15	348
16	352
17	351
18	353
19	Lipomed 100
20	357
21	344
22	342
23	347
24	349
25	350
26	348
27	352
28	351
29	353
30	Lipomed 300

Instrument Parameters			
Sample Temp	60	C	✓
Needle Temp	70	C	✓
Transfer Temp	80	C	✓
Thermostat time	15	min	✓
Pressurization time	2.0	min	✓
Withdraw time	0.2	min	✓
Injection Time	0.03	min	✓
Cycle Time	4.5	min	✓
Inlet temp	90	C	✓
He Carrier pressure	15	psi	✓
Column oven temp	55	C	✓
Run Time	5.0	min	✓
FID Temp	220	C	✓
Hydrogen Flow	45	mL/min	✓
Air Flow	450	mL/min	✓

Procedure Used	Eff. Date
ATP-TSOP v.1 section 4	Oct-17

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	100220bk	na
Volatiles Mixture	041513 DKR	na
Water (Fisher Scientific)	167428	Nov-21
Cerilliant 025	FN09081706	5/2023
Cerilliant 100	FN02271802	4/2023
Cerilliant 200	FN06231704	8/2022
Cerilliant 400	FN05131606	6/2021
Lipomed 50	10072019-A	7/2024
Lipomed 100	14082019-A	8/2024
Lipomed 300	11092018-B	9/2023

Reference Solution

Level Tested:	0.050 g/210L
Lot #:	202010A
Manufacture Date:	10/5/2020
Expiration Date	10/5/2022

Operator: BK

Date: 10/21/2020

Alcohol Analysis QC Summary

Report Date	10/21/2020
Reviewer	Brett Kirkland

BK

Run Summary Data			Ethanol				n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
10/21/2020	A	Volatiles Mix	041513 DKR	1.392	29184.06	0.0386	1.985	293083.64
10/21/2020	A	Blank	167428		0.00	0.0000	1.986	295889.45
10/21/2020	A	CER 025	FN09081706	1.391	19726.00	0.0266	1.985	292616.12
10/21/2020	A	CER 100	FN02271802	1.391	78946.39	0.1008	1.984	291102.00
10/21/2020	A	CER 200	FN06231704	1.392	157239.41	0.2016	1.985	287152.25
10/21/2020	A	CER 400	FN05131606	1.392	319907.27	0.4002	1.985	290796.48
10/21/2020	A	Blank	167428		0.00	0.0000	1.986	291475.93
10/21/2020	A	Lipomed 50	10072019-A	1.392	40498.87	0.0503	1.985	298277.53
10/21/2020	A	357	202010A	1.392	48105.11	0.0607	1.985	292646.09
10/21/2020	A	344	202010A	1.392	48473.55	0.0608	1.986	294508.96
10/21/2020	A	342	202010A	1.392	48759.94	0.0608	1.985	296449.42
10/21/2020	A	347	202010A	1.392	48332.47	0.0611	1.986	292002.21
10/21/2020	A	349	202010A	1.392	48131.99	0.0609	1.985	292091.85
10/21/2020	A	350	202010A	1.392	48136.36	0.0607	1.986	292895.53
10/21/2020	A	348	202010A	1.392	47880.70	0.0605	1.986	292381.34
10/21/2020	A	352	202010A	1.392	48335.25	0.0608	1.986	293867.51
10/21/2020	A	351	202010A	1.392	49067.14	0.0608	1.985	298067.54
10/21/2020	A	353	202010A	1.392	48512.09	0.0609	1.986	294141.10
10/21/2020	A	Lipomed 100	14082019-A	1.392	79792.52	0.0998	1.986	293339.23
10/21/2020	A	357	202010A	1.392	47685.26	0.0605	1.985	291328.15
10/21/2020	A	344	202010A	1.392	48204.47	0.0609	1.985	292268.77
10/21/2020	A	342	202010A	1.392	48810.46	0.0608	1.985	296551.13
10/21/2020	A	347	202010A	1.392	47269.89	0.0607	1.985	287489.86
10/21/2020	A	349	202010A	1.392	48514.60	0.0605	1.985	296142.27
10/21/2020	A	350	202010A	1.392	48166.61	0.0608	1.985	292717.20
10/21/2020	A	348	202010A	1.391	47900.54	0.0607	1.985	291624.12
10/21/2020	A	352	202010A	1.391	48247.64	0.0607	1.985	293600.52
10/21/2020	A	351	202010A	1.389	44655.38	0.0598	1.983	276023.28
10/21/2020	A	353	202010A	1.390	44166.98	0.0597	1.983	273603.17
10/21/2020	A	Lipomed 300	11092018-B	1.389	223606.34	0.2947	1.983	276330.10

%CV = 2.06%

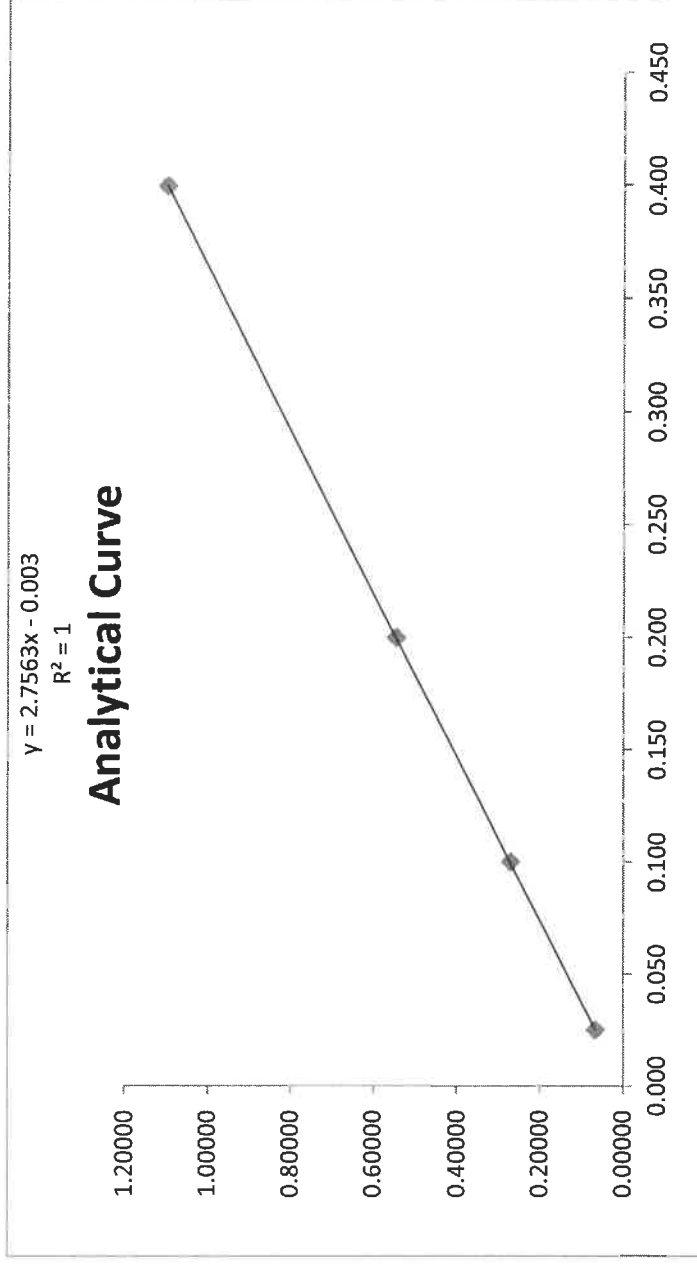
ALCOHOL ANALYSIS QC SUMMARY

Report Date	10/21/2020
Reviewer	Brett Kirkland

BK

RUN SUMMARY DATA				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
10/21/2020	A	CER 025	FN09081706	1.391	19726.00	0.0266	1.985	292616.12
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10/21/2020	A	CER 200	FN06231704	1.392	157239.41	0.2016	1.985	287152.25
10/21/2020	A	CER 400	FN05131606	1.392	319907.27	0.4002	1.985	290796.48

Summary		Standard	g/dL	Ratio	Calc.	Diff
Slope	2.7563	Blank	0.000	0.00000	0.00000	0.00000
Intercept	-0.0030	CER 025	0.025	0.06741	0.02555	0.00055
Standard Error	0.001599822	CER 100	0.100	0.27120	0.09948	-0.00052
R-Squared	1.0000	CER 200	0.200	0.54758	0.19976	-0.00024
		CER 400	0.400	1.10011	0.40022	0.00022



Source:	Alcohol Countermeasure Systems, Inc.
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Lot	202010A
Level	0.050 g/210L
Manufacture Date	10/5/2020
Expiration Date	10/5/2022

Bottle	Result (g/100mL)
357	0.0607
	0.0605
344	0.0608
	0.0609
342	0.0608
	0.0608
347	0.0611
	0.0607
349	0.0609
	0.0605
350	0.0607
	0.0608
348	0.0605
	0.0607
352	0.0608
	0.0607
351	0.0608
	0.0598
353	0.0609
	0.0597

Mean	0.0607
Std. Dev.	0.0003
Min	0.0597
Max	0.0611