

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	2212
10	2213
11	2214
12	2216
13	2217
14	2218
15	2219
16	2221
17	2222
18	2223
19	Lipomed 100
20	2212
21	2213
22	2214
23	2216
24	2217
25	2218
26	2219
27	2221
28	2222
29	2223
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	021618 TG	na
Volatiles Mixture	041513 DKR	na
Water (Fisher Scientific)	167428	11/2021
Cerilliant 25	FN06221502	8/2020
Cerilliant 100	FN08101601	8/2021
Cerilliant 200	FN03301601	4/2021
Cerilliant 400	FN05131606	6/2021
Lipomed 50	08012015-B	1/2020
Lipomed 100	09022015-B	2/2020
Lipomed 300	18052015-A/1	5/2020

Reference Solution

Level Tested:	0.05 g/ 210 L
Lot #:	201802B
Manufacture Date:	2/6/2018
Expiration Date	2/6/2020

Operator: J. Debra
 Date: 2/16/18

Alcohol Analysis QC Summary

Report Date	2/16/2018
Reviewer	TJ Graham

2/16/18
JD

Run Summary Data			Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
2/16/2018	A	Volatiles Mix	041513 DKR	1.414	25944.72	0.0386	2.007	248493.55
2/16/2018	A	Blank	167428		0.00	0.0000	2.008	246930.11
2/16/2018	A	CER 025	FN062221502	1.414	17036.53	0.0259	2.007	248543.92
2/16/2018	A	CER 100	FN08101601	1.413	67715.94	0.0998	2.007	243833.68
2/16/2018	A	CER 200	FN03301601	1.413	137722.38	0.1991	2.007	246158.48
2/16/2018	A	CER 400	FN05131606	1.413	276285.18	0.4004	2.007	245085.95
2/16/2018	A	Blank	167428		0.00	0.0000	2.007	244258.03
2/16/2018	A	Lipomed 50	08012015-B	1.413	33927.64	0.0499	2.007	247219.94
2/16/2018	A	2212	201802B	1.413	41925.57	0.0606	2.007	250387.27
2/16/2018	A	2213	201802B	1.413	41447.03	0.0610	2.007	245938.90
2/16/2018	A	2214	201802B	1.413	41425.96	0.0606	2.007	247563.38
2/16/2018	A	2216	201802B	1.414	41458.01	0.0609	2.007	246561.60
2/16/2018	A	2217	201802B	1.413	41857.73	0.0604	2.007	250706.80
2/16/2018	A	2218	201802B	1.412	41087.39	0.0609	2.006	244147.92
2/16/2018	A	2219	201802B	1.414	42699.09	0.0606	2.008	254897.95
2/16/2018	A	2221	201802B	1.413	41837.43	0.0608	2.007	249135.59
2/16/2018	A	2222	201802B	1.414	40978.08	0.0611	2.007	242638.17
2/16/2018	A	2223	201802B	1.414	41126.57	0.0610	2.007	243993.49
2/16/2018	A	Lipomed 100	09022015-B	1.412	68625.24	0.0997	2.005	246921.57
2/16/2018	A	2212	201802B	1.413	41579.82	0.0606	2.007	248199.98
2/16/2018	A	2213	201802B	1.413	41337.62	0.0611	2.007	245020.84
2/16/2018	A	2214	201802B	1.414	41640.36	0.0607	2.008	248186.44
2/16/2018	A	2216	201802B	1.414	41138.25	0.0608	2.008	244838.25
2/16/2018	A	2217	201802B	1.414	42352.11	0.0607	2.007	252773.80
2/16/2018	A	2218	201802B	1.414	41055.56	0.0606	2.008	245299.49
2/16/2018	A	2219	201802B	1.414	41594.92	0.0611	2.008	246572.10
2/16/2018	A	2221	201802B	1.414	41766.03	0.0610	2.008	247767.72
2/16/2018	A	2222	201802B	1.413	41770.86	0.0609	2.007	248130.28
2/16/2018	A	2223	201802B	1.413	41584.36	0.0608	2.007	247769.62
2/16/2018	A	Lipomed 300	18052015-A/1	1.412	210291.30	0.2983	2.006	250648.17

%CV = 1.11%

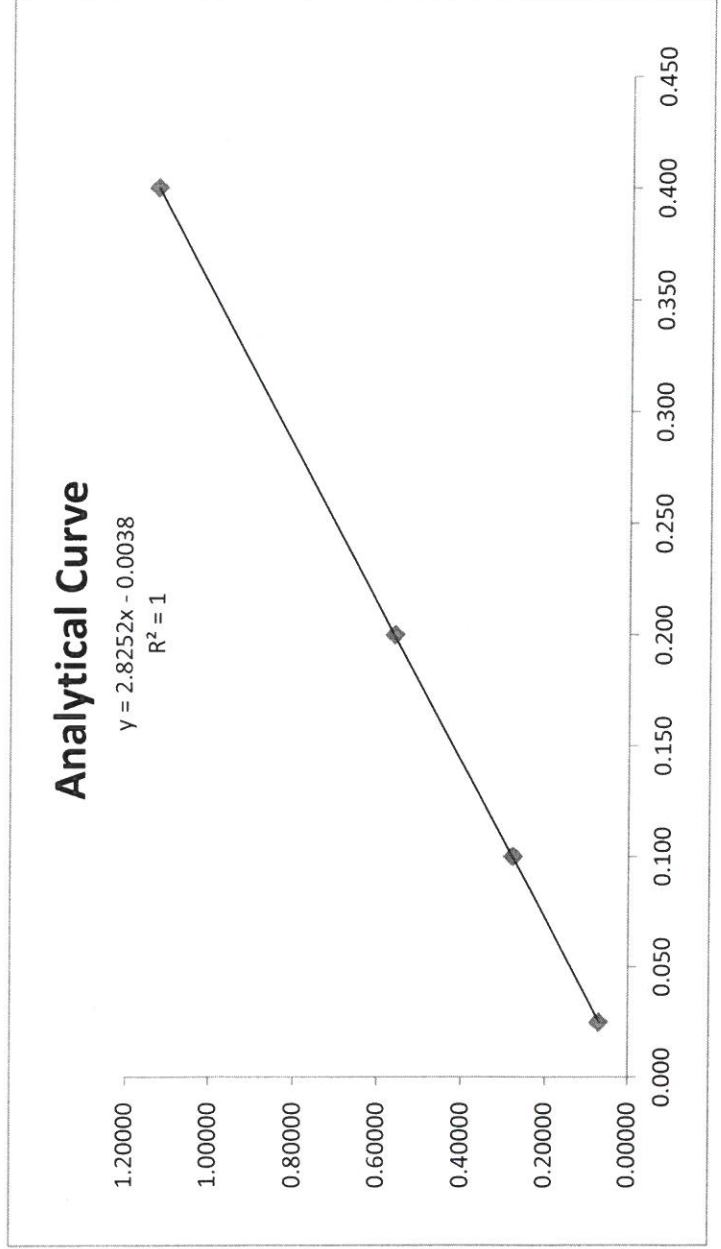
ALCOHOL ANALYSIS QC SUMMARY

Report Date	2/16/2018
Reviewer	TJ Graham

2/16/18
TJG

RUN SUMMARY DATA				Ethanol			n-Propanol		
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area	
2/16/2018	A	CER 025	FN062221502	1.414	17036.53	0.0259	2.007	248543.92	
2/16/2018	A	CER 100	FN08101601	1.413	67715.94	0.0998	2.007	243833.68	
2/16/2018	A	CER 200	FN03301601	1.413	137722.38	0.1991	2.007	246158.48	
2/16/2018	A	CER 400	FN05131606	1.413	276285.18	0.4004	2.007	245085.95	

Summary	Standard	g/dL	Ratio	Calc.	Diff
	Blank	0.000	0.00000	0.00000	0.00000
Slope	2.8252	0.025	0.06855	0.02561	0.00061
Intercept	-0.0038	0.100	0.27771	0.09965	-0.00035
Standard Error	0.002008452	0.200	0.55949	0.19938	-0.00062
R-Squared	1.0000	0.400	1.12730	0.40036	0.00036



Source: Alcohol Countermeasure Systems, Inc.

Lot	201802B
Level	0.05 g/ 210 L
Manufacture Date	2/6/2018
Expiration Date	2/6/2020

2/16/18
JE

Bottle	Result (g/100mL)
2212	0.0606
	0.0606
2213	0.0610
	0.0611
2214	0.0606
	0.0607
2216	0.0609
	0.0608
2217	0.0604
	0.0607
2218	0.0609
	0.0606
2219	0.0606
	0.0611
2221	0.0608
	0.0610
2222	0.0611
	0.0609
2223	0.0610
	0.0608

Mean	0.0608
Std. Dev.	0.0002
Min	0.0604
Max	0.0611