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	Cerilliant 50
9	1153
10	1154
11	1155
12	1156
13	1157
14	1171
15	1172
16	1173
17	1174
18	1175
19	Fluka 100
20	1153
21	1154
22	1155
23	1156
24	1157
25	1171
26	1172
27	1173
28	1174
29	1175
30	Cerilliant 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-SOP section 2.14	Dec-16

Reagents, Calibrators and Controls

Materials	Lot	Exp. Date
Internal Standard	040417 TG	na
Volatiles Mixture	041513 DKR	na
Water (Fisher Scientific)	167428	11/2021
Cerilliant 25	FN06221502	8/2020
Cerilliant 100	FN06181501	6/2020
Cerilliant 200	FN07201502	10/2020
Cerilliant 400	FN11191402	2/2020
Cerilliant 50	FN06231406	7/2019
Fluka 100 (33961)	SZBE029XV	1/29/2019
Cerilliant 300	FN02121601	2/2021

Reference Solution

Level Tested:	0.05 g/210 L
Lot #:	201703A
Manufacture Date:	3/7/2017
Expiration Date	3/7/2019

Operator: JJ Graham

Date: 4/6/17

Alcohol Analysis QC Summary

Report Date	4/6/2017
Reviewer	TJ Graham

4/6/17
TJ

Run Summary Data				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
4/6/2017	A	Vols Mix	041513 DKR	1.412	23916.79	0.0379	2.006	211005.73
4/6/2017	A	Blank	167428		0.00	0.0000	2.006	207711.19
4/6/2017	A	CER 025	FN06221502	1.412	15425.19	0.0245	2.006	210100.46
4/6/2017	A	CER 100	FN06181501	1.412	61189.43	0.0995	2.006	206635.45
4/6/2017	A	CER 200	FN07201502	1.413	122815.09	0.2021	2.007	203758.32
4/6/2017	A	CER 400	FN11191402	1.412	245411.84	0.3998	2.006	204128.88
4/6/2017	A	Blank	167428		0.00	0.0000	2.006	208031.59
4/6/2017	A	Cerilliant 50	FN06231406	1.412	30811.01	0.0507	2.006	205310.54
4/6/2017	A	1153	201703A	1.412	37835.78	0.0613	2.006	207655.78
4/6/2017	A	1154	201703A	1.412	37735.73	0.0607	2.007	209123.03
4/6/2017	A	1155	201703A	1.412	37673.84	0.0614	2.006	206696.79
4/6/2017	A	1156	201703A	1.412	38103.15	0.0609	2.006	210476.46
4/6/2017	A	1157	201703A	1.413	38669.19	0.0616	2.006	211211.13
4/6/2017	A	1171	201703A	1.413	37757.51	0.0615	2.007	206661.17
4/6/2017	A	1172	201703A	1.412	38471.28	0.0614	2.006	210733.60
4/6/2017	A	1173	201703A	1.412	38236.24	0.0616	2.006	209013.06
4/6/2017	A	1174	201703A	1.412	38087.64	0.0608	2.006	210965.86
4/6/2017	A	1175	201703A	1.412	37492.36	0.0609	2.006	207240.53
4/6/2017	A	Fluka 100	SZBE029XV	1.413	58418.44	0.0968	2.007	202125.73
4/6/2017	A	1153	201703A	1.412	37421.58	0.0607	2.006	207510.71
4/6/2017	A	1154	201703A	1.412	37273.47	0.0610	2.006	205662.12
4/6/2017	A	1155	201703A	1.412	37254.51	0.0613	2.006	204410.56
4/6/2017	A	1156	201703A	1.412	37844.03	0.0614	2.006	207313.47
4/6/2017	A	1157	201703A	1.412	36660.48	0.0611	2.006	202084.00
4/6/2017	A	1171	201703A	1.412	36770.66	0.0608	2.006	203536.24
4/6/2017	A	1172	201703A	1.412	37145.00	0.0611	2.006	204758.07
4/6/2017	A	1173	201703A	1.412	36936.33	0.0611	2.006	203541.44
4/6/2017	A	1174	201703A	1.413	38515.67	0.0617	2.007	210232.54
4/6/2017	A	1175	201703A	1.412	37430.20	0.0611	2.006	206332.71
4/6/2017	A	Cerilliant 300	FN02121601	1.411	186203.43	0.2961	2.005	209284.70
							%CV =	1.33%

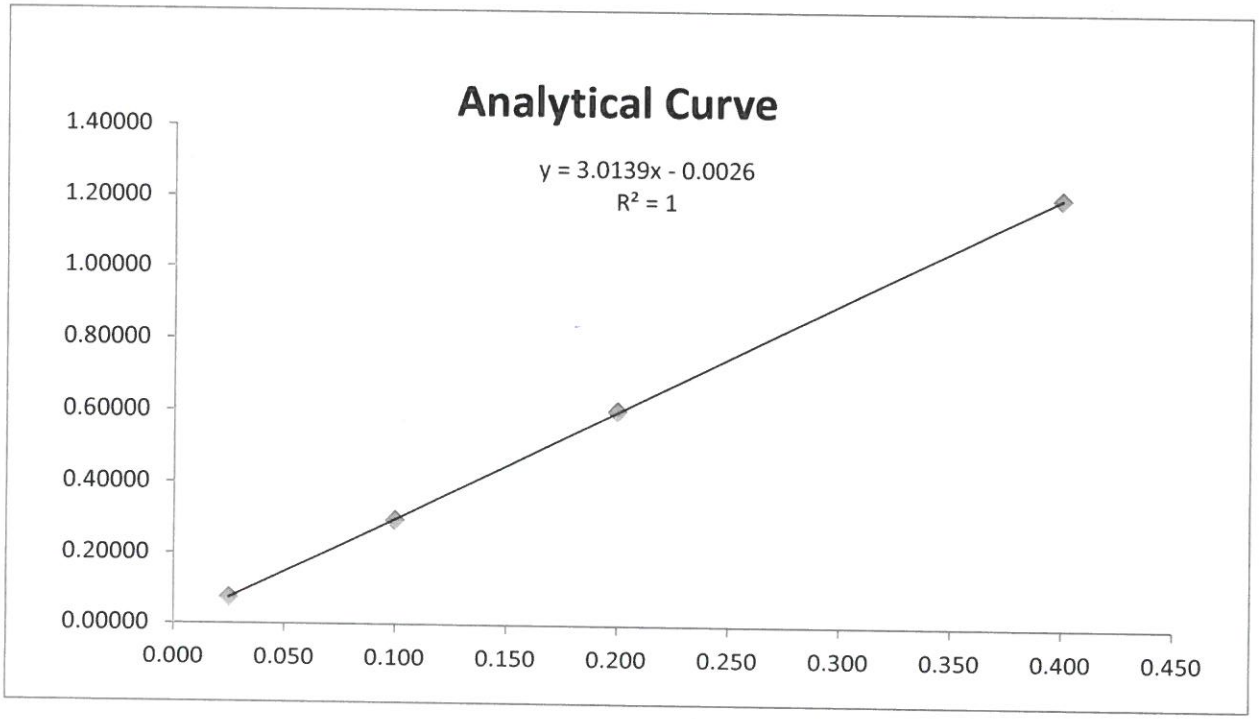
ALCOHOL ANALYSIS QC SUMMARY

4/6/17
JG

Report Date	4/6/2017
Reviewer	TJ Graham

RUN SUMMARY DATA				Ethanol			n-Propanol	
Run Date	Channel	Sample	Lot	RT	Area	Conc.	RT	Area
4/6/2017	A	CER 025	FN06221502	1.412	15425.19	0.0245	2.006	210100.46
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4/6/2017	A	CER 200	FN07201502	1.413	122815.09	0.2021	2.007	203758.32
4/6/2017	A	CER 400	FN11191402	1.412	245411.84	0.3998	2.006	204128.88

Summary		Standard	g/dL	Ratio	Calc.	Diff
		Blank	0.000	0.00000	0.00000	0.00000
Slope	3.0139	CER 025	0.025	0.07342	0.02524	0.00024
Intercept	-0.0026	CER 100	0.100	0.29612	0.09913	-0.00087
Standard Error	0.00270896	CER 200	0.200	0.60275	0.20086	0.00086
R-Squared	1.0000	CER 400	0.400	1.20224	0.39977	-0.00023



Source:	Alcohol Countermeasure Systems, Inc.

Lot	201703A
Level	0.05 g/210 L
Manufacture Date	3/7/2017
Expiration Date	3/7/2019

4/6/17
JD

Bottle	Result (g/100mL)
1153	0.0613
	0.0607
1154	0.0607
	0.0610
1155	0.0614
	0.0613
1156	0.0609
	0.0614
1157	0.0616
	0.0611
1171	0.0615
	0.0608
1172	0.0614
	0.0611
1173	0.0616
	0.0611
1174	0.0608
	0.0617
1175	0.0609
	0.0611

Mean	0.0612
Std. Dev.	0.0003
Min	0.0607
Max	0.0617