Calibration Report

Data Path : D:\Data\Angie\VP1262\
Data File : 063017_003.D
Acq On : 30 Jun 2017 4:07 pm
Operator : AH
Sample : CCV-100ng
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 07 14:28:21 2017
Quant Method : C:\MSDCHEM\1\METHODS\VOA_June2017.M
Quant Title : VOLATILE ANALYSIS by P&T GC/MSD
QLast Update : Thu Jun 22 13:44:54 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	250.000	250.000	0.0	91	0.02
2	M	1,1,2-Trichloro-1,2,2-trifl	100.000	108.667	-8.7	104	0.00
3	M	1,1-Dichloroethene	100.000	106.833	-6.8	96	0.00
4	M	Acetone	100.000	113.756	-13.8	103	-0.01
5	M	Carbon disulfide	100.000	106.375	-6.4	96	0.00
6	M	Methylene Chloride	100.000	116.216	-16.2	105	0.00
7	M	trans-1,2-Dichloroethene	100.000	110.016	-10.0	102	0.00
8	M	Hexane	100.000	137.825	-37.8#	127	0.00
9	M	1,1-Dichloroethane	100.000	113.781	-13.8	103	0.00
10	M	cis-1,2-Dichloroethene	100.000	110.888	-10.9	103	0.00
11	M	2-Butanone	100.000	113.965	-14.0	102	-0.02
12	M	Chloroform	100.000	112.797	-12.8	101	0.00
13	M	Tetrahydrofuran	100.000	121.558	-21.6	110	-0.03
14	M	1,1,1-Trichloroethane	100.000	108.228	-8.2	99	0.00
15	M	Carbon tetrachloride	100.000	109.037	-9.0	101	0.00
16	S	1,2-Dichloroethane-d4	50.000	50.629	-1.3	91	0.00
17	M	Benzene	100.000	112.860	-12.9	103	0.00
18	M	1,2-Dichloroethane	100.000	115.524	-15.5	106	0.00
19	M	Trichloroethene	100.000	123.173	-23.2	109	0.00
20	M	1,2-Dichloropropane	100.000	117.733	-17.7	106	0.00
21	M	Bromodichloromethane	100.000	114.702	-14.7	106	0.00
22	I	Chlorobenzene-d5	250.000	250.000	0.0	90	0.02
23	M	cis-1,3-Dichloropropene	100.000	113.590	-13.6	104	0.00
24	M	4-Methyl-2-pentanone	100.000	116.089	-16.1	106	-0.02
25	S	Toluene-d8	50.000	49.257	1.5	88	0.00
26	M	Toluene	100.000	116.187	-16.2	105	0.00
27	M	trans-1,3-Dichloropropene	100.000	114.184	-14.2	105	0.00
28	M	1,1,2-Trichloroethane	100.000	116.183	-16.2	108	0.00
29	M	Tetrachloroethene	100.000	121.185	-21.2	112	0.00
30	M	2-Hexanone	100.000	111.360	-11.4	107	-0.01
31	M	Dibromochloromethane	100.000	116.602	-16.6	109	0.00
32	M	1,2-Dibromoethane	100.000	117.129	-17.1	106	0.00
33	M	Chlorobenzene	100.000	116.609	-16.6	109	0.00
34	M	Ethylbenzene	100.000	118.487	-18.5	109	0.00
35	M	m- &/or p-Xylene	100.000	118.281	-18.3	110	0.00
36	M	o-Xylene	100.000	118.739	-18.7	110	0.00
37	M	Styrene	100.000	127.454	-27.5#	122	0.00
38	M	Bromoform	100.000	108.219	-8.2	103	0.00
39	I	1,4-Dichlorobenzene-d4	250.000	250.000	0.0	92	0.01
40	M	Isopropylbenzene	100.000	123.085	-23.1	112	0.00
	S	4-Bromofluorobenzene	50.000	49.503	1.0	91	0.00
	M	1,1,2,2-Tetrachloroethane	100.000	109.869	-9.9	106	0.00
	M	n-Propylbenzene	100.000	126.880	-26.9#	116	0.00
	M	1,3,5-Trimethylbenzene	100.000	121.125	-21.1	114	0.00
	M	1,2,4-Trimethylbenzene	100.000	119.788	-19.8	112	0.00
	M	Isobutylbenzene	100.000	133.509	-33.5#	126	0.00
	M	1,3-Dichlorobenzene	100.000	127.045	-27.0#	116	0.00
	M	1,4-Dichlorobenzene	100.000	124.565	-24.6	116	0.00

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Evaluate Continuing Calibration

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Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 M	1,2-Dichlorobenzene	100.000	121.917	-21.9	113	0.00
50 M	1,2-Dibromo-3-chloropropane	100.000	112.414	-12.4	105	0.00
51 M	1,2,4-Trichlorobenzene	100.000	134.128	-34.1#	124	0.00
52 M	Hexachlorobutadiene	100.000	157.893	-57.9#	146	0.00
53 M	Naphthalene	100.000	113.753	-13.8	108	0.00
54 M	1,2,3-Trichlorobenzene	100.000	127.331	-27.3#	120	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) Fluorobenzene	6.71	96	1958414	250.00 ng		0.02
22) Chlorobenzene-d5	9.84	117	1485990	250.00 ng		0.02
39) 1,4-Dichlorobenzene-d4	12.16	152	794634	250.00 ng		0.01
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	6.30	65	114379	50.63 ng		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 101.26%			
25) Toluene-d8	8.40	98	370447	49.26 ng		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 98.52%			
41) 4-Bromofluorobenzene	11.01	174	124736	49.50 ng		0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.00%			
Target Compounds						Qvalue
2) 1,1,2-Trichloro-1,2,2-...	2.86	151	157486	108.67 ng		97
3) 1,1-Dichloroethene	2.82	96	185238	106.83 ng		90
4) Acetone	2.89	58	34660	113.76 ng		85
5) Carbon disulfide	3.06	76	626190	106.38 ng		100
6) Methylene Chloride	3.44	84	252171	116.22 ng		91
7) trans-1,2-Dichloroethene	3.86	96	222656	110.02 ng		92
8) Hexane	4.34	57	271263	137.83 ng		95
9) 1,1-Dichloroethane	4.49	63	433835	113.78 ng		99
10) cis-1,2-Dichloroethene	5.30	96	256359	110.89 ng		95
11) 2-Butanone	5.35	72	32841	113.97 ng	#	60
12) Chloroform	5.73	83	412815	112.80 ng		100
13) Tetrahydrofuran	5.68	42	80550	121.56 ng	#	88
14) 1,1,1-Trichloroethane	5.93	97	322227	108.23 ng		97
15) Carbon tetrachloride	6.14	117	278934	109.04 ng		97
17) Benzene	6.37	78	977467	112.86 ng		97
18) 1,2-Dichloroethane	6.39	62	344474	115.52 ng		99
19) Trichloroethene	7.12	95	277861	123.17 ng		98
20) 1,2-Dichloropropane	7.34	63	262338	117.73 ng		99
21) Bromodichloromethane	7.64	83	328323	114.70 ng		99
23) cis-1,3-Dichloropropene	8.12	75	416636	113.59 ng		91
24) 4-Methyl-2-pentanone	8.29	58	99803	116.09 ng		87
26) Toluene	8.46	92	613850	116.19 ng		97
27) trans-1,3-Dichloropropene	8.69	75	386825	114.18 ng		91
28) 1,1,2-Trichloroethane	8.87	83	207280	116.18 ng		97
29) Tetrachloroethene	9.02	164	203413	121.19 ng		98
30) 2-Hexanone	9.14	43	194254	111.36 ng		94
31) Dibromochloromethane	9.26	129	257552	116.60 ng		99
32) 1,2-Dibromoethane	9.36	107	246244	117.13 ng		98
33) Chlorobenzene	9.87	112	711962	116.61 ng		99
34) Ethylbenzene	9.99	91	1201181	118.49 ng		96
35) m- &/or p-Xylene	10.11	106	461730	118.28 ng		96
36) o-Xylene	10.50	106	458480	118.74 ng		97
37) Styrene	10.51	104	864806	127.45 ng		96
38) Bromoform	10.67	173	186333	108.22 ng		99
40) Isopropylbenzene	10.87	105	1184306	123.08 ng		98
42) 1,1,2,2-Tetrachloroethane	11.15	83	276072	109.87 ng		99
43) n-Propylbenzene	11.28	91	1461736	126.88 ng		98
44) 1,3,5-Trimethylbenzene	11.46	105	1016965	121.13 ng		98
45) 1,2,4-Trimethylbenzene	11.83	105	1020616	119.79 ng		97
46) Isobutylbenzene	11.97	91	1099941	133.51 ng		99

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Quantitation Report (QT Reviewed)

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Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
47) 1,3-Dichlorobenzene	12.10	146	607081	127.04 ng	99
48) 1,4-Dichlorobenzene	12.18	146	606454	124.56 ng	99
49) 1,2-Dichlorobenzene	12.55	146	584074	121.92 ng	99
50) 1,2-Dibromo-3-chloropr...	13.32	75	61228	112.41 ng	97
51) 1,2,4-Trichlorobenzene	14.16	180	430588	134.13 ng	99
52) Hexachlorobutadiene	14.35	225	217943	157.89 ng	97
53) Naphthalene	14.40	128	1055926	113.75 ng	99
54) 1,2,3-Trichlorobenzene	14.64	180	418275	127.33 ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed