

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL053118\
 Data File : VL032016.D
 Acq On : 31 May 2018 16:04
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 10:54:52 AM

Quant Time: Jun 01 02:12:13 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:12:13 2018
 QLast Update : Fri Jun 01 01:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1359740	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2627431	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2721027m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.71	95	2066983	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.15	85	1330150	7.67	ppbv	100
3) Chlorodifluoromethane	3.08	51	1152727	9.02	ppbv	100
4) Chloromethane	3.24	50	593988	8.98	ppbv	100
5) Vinyl Chloride	3.36	62	624579	8.29	ppbv	100
6) Bromomethane	3.59	94	451647	9.18	ppbv	100
7) Chloroethane	3.68	64	263866	9.15	ppbv	100
8) Dichlorotetrafluoroethane	3.29	85	1570973	8.85	ppbv	100
9) Propene	3.11	41	443098	9.56	ppbv	100
10) Heptane	8.37	43	1541165	9.56	ppbv	100
11) Trichlorofluoromethane	4.09	101	1998438	9.07	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.65	101	1570561	10.02	ppbv	100
13) Ethanol	3.73	45	131911	7.61	ppbv	100
14) Bromoethene	3.87	108	525876	9.32	ppbv	100
15) Acetone	3.99	43	1340359	7.06	ppbv	100
16) 1,3-Butadiene	3.44	39	616936	10.04	ppbv	100
17) tert-Butyl alcohol	4.45	59	752997	9.49	ppbv	100
18) 1,1-Dichloroethene	4.44	96	665662	9.74	ppbv	100
19) Isopropyl Alcohol	4.11	45	1004680	9.49	ppbv	99
20) Methylene Chloride	4.50	84	622597	9.48	ppbv	100
21) Allyl Chloride	4.57	41	1107898	10.02	ppbv	100
22) trans-1,2-Dichloroethene	5.06	96	768752	10.11	ppbv	100
23) Vinyl Acetate	5.25	43	2229105	10.10	ppbv	100
24) 1,1-Dichloroethane	5.19	63	2002653	9.62	ppbv	100
25) Ethyl Acetate	5.87	43	3136926	9.49	ppbv	100
26) Hexane	5.88	57	1494043	9.58	ppbv	100
27) Carbon Disulfide	4.71	76	2046967	11.41	ppbv	99
28) Methyl tert-Butyl Ether	5.21	73	1918288	10.01	ppbv	100
29) Chloroform	5.95	83	2392304	9.61	ppbv	100
30) Cyclohexane	7.36	84	946036	9.19	ppbv	100
31) cis-1,2-Dichloroethene	5.75	61	1427910	9.98	ppbv	100
32) 1,1,1-Trichloroethane	6.73	97	1922814	8.50	ppbv	100
34) 2-Butanone	5.43	43	2043263	9.41	ppbv	100
35) Carbon Tetrachloride	7.25	117	2049324	9.73	ppbv	100
36) Benzene	7.12	78	2295361	9.30	ppbv	100
37) 1,2-Dichloroethane	6.52	62	1613000	9.24	ppbv	100
38) Trichloroethene	8.08	130	938784	9.95	ppbv	100
39) 1,2-Dichloropropane	7.86	63	835790	9.68	ppbv	100
40) 1,4-Dioxane	8.07	88	366849	9.47	ppbv	100
41) Tetrahydrofuran	6.26	42	1000705	10.68	ppbv	100
42) Bromodichloromethane	8.04	83	2001709	10.00	ppbv	100
43) Methyl Methacrylate	8.25	69	890355	10.57	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.11	57	3911740	9.74	ppbv	100
45) t-1,3-Dichloropropene	9.54	75	1283493	11.47	ppbv	100
46) cis-1,3-Dichloropropene	8.96	75	1569186	11.38	ppbv	100
47) 1,1,2-Trichloroethane	9.74	97	992574	9.69	ppbv	100
48) Dibromochloromethane	10.58	129	1735716	10.50	ppbv	100
49) Bromoform	13.33	173	1436189	11.08	ppbv	100
50) 4-Methyl-2-Pentanone	8.99	43	2073559	10.11	ppbv	100
51) 2-Hexanone	10.39	43	1984406	10.62	ppbv	100
52) Tetrachloroethene	11.50	164	911670	9.92	ppbv	100
53) Toluene	10.07	91	2811619	10.50	ppbv	100
54) 1,2-Dibromoethane	10.89	107	1537854	10.09	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.41	131	1200627	9.58	ppbv	98
57) Chlorobenzene	12.43	112	2246654	9.44	ppbv	100
58) Ethyl Benzene	12.99	91	4042159	10.25	ppbv	100
59) m/p-Xylene	13.28	91	6735264m	19.98	ppbv	
60) o-Xylene	13.98	91	3431334	10.14	ppbv	100
61) Styrene	13.81	104	821994	12.02	ppbv	100
62) Isopropylbenzene	14.95	105	4261605	9.90	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.96	83	2283217	9.54	ppbv	100
64) n-propylbenzene	15.85	120	1082142	10.00	ppbv	100
65) tert-Butylbenzene	17.03	119	3697850	9.65	ppbv	100
66) Benzyl Chloride	17.29	91	404970	11.34	ppbv	98
67) sec-Butylbenzene	17.59	105	5270549	9.88	ppbv	100
69) p-Isopropyltoluene	17.94	119	4264375	9.98	ppbv	100
70) n-Butylbenzene	18.84	91	4332922	9.82	ppbv	100
71) 2-Chlorotoluene	15.75	91	3256334	10.30	ppbv	100
72) 4-Ethyltoluene	16.13	105	3618079	10.54	ppbv	100
73) 1,3,5-Trimethylbenzene	16.29	105	3186128	10.10	ppbv	100
74) 1,2,4-Trimethylbenzene	17.05	105	3402604	9.71	ppbv	100
75) 1,3-Dichlorobenzene	17.29	146	2165412	9.94	ppbv	100
76) 1,4-Dichlorobenzene	17.44	146	2184206	10.14	ppbv	100
77) 1,2-Dichlorobenzene	18.12	146	2071996	9.54	ppbv	100
78) Hexachloro-1,3-Butadiene	23.66	225	690755m	7.77	ppbv	
79) Naphthalene	22.56	128	2443274	10.15	ppbv	100
80) Naphthalene, 2-methyl-	25.21	142	1186426	18.70	ppbv	100
81) 1,2,4-Trichlorobenzene	22.29	180	1262920	9.47	ppbv	100

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

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