

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031440.D
 Acq On : 23 Jan 2018 10:21
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:37 PM

Quant Time: Jan 23 10:52:58 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 2018
 QLast Update : Mon Jan 22 17:52:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1275971	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	2795947	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2986657m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2376166	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	1670447	9.25	ppbv	99
3) Chlorodifluoromethane	3.11	51	1506868	8.93	ppbv	98
4) Chloromethane	3.27	50	700172	9.29	ppbv	99
5) Vinyl Chloride	3.40	62	719561	9.94	ppbv	99
6) Bromomethane	3.63	94	510783	9.61	ppbv	97
7) Chloroethane	3.71	64	297490	9.62	ppbv	98
8) Dichlorotetrafluoroethane	3.32	85	1870317	9.29	ppbv	100
9) Propene	3.13	41	557588	9.43	ppbv	98
10) Heptane	8.41	43	1744368	9.48	ppbv	100
11) Trichlorofluoromethane	4.13	101	2274561	9.34	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1431209	9.38	ppbv	99
13) Ethanol	3.76	45	117361	6.60	ppbv	98
14) Bromoethene	3.91	108	594800	9.75	ppbv	99
15) Acetone	4.02	43	1475956	8.69	ppbv	99
16) 1,3-Butadiene	3.47	39	703110	9.86	ppbv	95
17) tert-Butyl alcohol	4.48	59	787039	9.52	ppbv	100
18) 1,1-Dichloroethene	4.48	96	631819	9.61	ppbv	98
19) Isopropyl Alcohol	4.14	45	955627	9.01	ppbv	99
20) Methylene Chloride	4.54	84	572845	8.69	ppbv	96
21) Allyl Chloride	4.61	41	1010563	9.91	ppbv	99
22) trans-1,2-Dichloroethene	5.10	96	662345	9.60	ppbv	98
23) Vinyl Acetate	5.29	43	2053779	10.00	ppbv	99
24) 1,1-Dichloroethane	5.23	63	1700755	9.49	ppbv	99
25) Ethyl Acetate	5.91	43	2893238	9.56	ppbv	100
26) Hexane	5.93	57	1277055	9.48	ppbv	99
27) Carbon Disulfide	4.75	76	1805015	10.19	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	1589487	9.95	ppbv	100
29) Chloroform	6.00	83	2109185	9.08	ppbv	100
30) Cyclohexane	7.41	84	1005336	9.76	ppbv	99
31) cis-1,2-Dichloroethene	5.79	61	1260637	9.90	ppbv	95
32) 1,1,1-Trichloroethane	6.77	97	2168583	9.58	ppbv	99
34) 2-Butanone	5.47	43	1872882	10.59	ppbv	99
35) Carbon Tetrachloride	7.29	117	2373142	10.48	ppbv	98
36) Benzene	7.16	78	2455106	9.87	ppbv	100
37) 1,2-Dichloroethane	6.57	62	1899189	9.84	ppbv	100
38) Trichloroethene	8.12	130	1033907	10.69	ppbv	99
39) 1,2-Dichloropropane	7.90	63	890759	9.54	ppbv	93
40) 1,4-Dioxane	8.12	88	374352	9.82	ppbv	78
41) Tetrahydrofuran	6.30	42	976037	9.99	ppbv	99
42) Bromodichloromethane	8.08	83	2299680	9.93	ppbv	99
43) Methyl Methacrylate	8.30	69	960859	10.57	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	4207075	9.92	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	1391818	10.68	ppbv	100
46) cis-1,3-Dichloropropene	9.00	75	1685423	10.54	ppbv	97
47) 1,1,2-Trichloroethane	9.78	97	1057942	9.63	ppbv	99
48) Dibromochloromethane	10.62	129	1923221	9.84	ppbv	99
49) Bromoform	13.38	173	1461828	9.83	ppbv	100
50) 4-Methyl-2-Pentanone	9.03	43	2409116	10.12	ppbv	99
51) 2-Hexanone	10.44	43	2332507	10.27	ppbv #	99
52) Tetrachloroethene	11.55	164	944549	10.12	ppbv	99
53) Toluene	10.12	91	2989704	10.19	ppbv	99
54) 1,2-Dibromoethane	10.94	107	1662057	9.74	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.46	131	1313470	9.26	ppbv	97
57) Chlorobenzene	12.48	112	2332304	9.02	ppbv	97
58) Ethyl Benzene	13.04	91	4185402	9.56	ppbv	99
59) m/p-Xylene	13.32	91	6950158m	18.56	ppbv	
60) o-Xylene	14.02	91	3599731	9.61	ppbv	99
61) Styrene	13.86	104	857316	10.53	ppbv	99
62) Isopropylbenzene	15.00	105	4436973	9.44	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	2327742	9.02	ppbv	99
64) n-propylbenzene	15.90	120	1109994	9.52	ppbv	98
65) tert-Butylbenzene	17.08	119	4036554	9.73	ppbv	100
66) Benzyl Chloride	17.33	91	414822	10.01	ppbv	99
67) sec-Butylbenzene	17.63	105	5678839	9.80	ppbv	100
69) p-Isopropyltoluene	17.99	119	4685339	10.06	ppbv	100
70) n-Butylbenzene	18.89	91	4974839	10.28	ppbv	100
71) 2-Chlorotoluene	15.79	91	3381390	9.54	ppbv	100
72) 4-Ethyltoluene	16.17	105	3709353	9.80	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	3354444	9.74	ppbv	100
74) 1,2,4-Trimethylbenzene	17.10	105	3657355	9.59	ppbv	97
75) 1,3-Dichlorobenzene	17.34	146	2282041	9.63	ppbv	100
76) 1,4-Dichlorobenzene	17.48	146	2287360	9.85	ppbv	100
77) 1,2-Dichlorobenzene	18.17	146	2304572	10.04	ppbv	100
78) Hexachloro-1,3-Butadiene	23.71	225	1020393	12.63	ppbv	99
79) Naphthalene	22.61	128	2514963	10.70	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	610110	9.31	ppbv	99
81) 1,2,4-Trichlorobenzene	22.34	180	1276810	10.17	ppbv	99

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

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