

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035016.D
 Acq On : 13 May 2020 10:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/18/2020 2:08:52 PM

Quant Time: May 14 01:16:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	772651	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	1909996	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	1916254	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1408951	9.08	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.00	85	981376	8.949 ppbv	97
3) Chlorodifluoromethane	2.93	51	881116	9.988 ppbv	95
4) Chloromethane	3.09	50	509360	10.075 ppbv	100
5) Vinyl Chloride	3.21	62	483540	9.805 ppbv	97
6) Bromomethane	3.43	94	286782	9.739 ppbv	98
7) Chloroethane	3.51	64	178818	10.096 ppbv	95
8) Dichlorotetrafluoroethane	3.14	85	1061400	9.353 ppbv	94
9) Propene	2.96	41	446073	11.653 ppbv	99
10) Heptane	8.12	43	1111964	11.595 ppbv	95
11) Trichlorofluoromethane	3.91	101	1064238	9.412 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.45	101	763030	9.477 ppbv	96
13) Ethanol	3.56	45	98293	7.782 ppbv	99
14) Bromoethene	3.69	108	349465	10.503 ppbv	100
15) Acetone	3.81	43	891801	8.730 ppbv	99
16) 1,3-Butadiene	3.28	39	472664	10.753 ppbv	95
17) tert-Butyl alcohol	4.25	59	878198	9.663 ppbv	100
18) 1,1-Dichloroethene	4.25	96	357507	10.235 ppbv	91
19) Isopropyl Alcohol	3.93	45	595839	8.747 ppbv	99
20) Methylene Chloride	4.30	84	307287	9.088 ppbv	99
21) Allyl Chloride	4.38	41	618885	10.726 ppbv	98
22) trans-1,2-Dichloroethene	4.85	96	351870	10.170 ppbv	98
23) Vinyl Acetate	5.04	43	1447328	11.174 ppbv	99
24) 1,1-Dichloroethane	4.98	63	970823	9.731 ppbv	98
25) Ethyl Acetate	5.65	43	1848709	10.775 ppbv	99
26) Hexane	5.66	57	802798	10.792 ppbv	98
27) Carbon Disulfide	4.51	76	832087	9.491 ppbv	99
28) Methyl tert-Butyl Ether	5.00	73	1246897	11.006 ppbv	98
29) Chloroform	5.73	83	1128531	9.272 ppbv	99
30) Cyclohexane	7.12	84	673840	11.739 ppbv	97
31) cis-1,2-Dichloroethene	5.52	61	808075	11.134 ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	1043924	9.498 ppbv	99
34) 2-Butanone	5.21	43	1256539	10.585 ppbv	98
35) Carbon Tetrachloride	7.01	117	1031723	8.558 ppbv	97
36) Benzene	6.88	78	1633766	10.375 ppbv	98
37) 1,2-Dichloroethane	6.29	62	876244	9.021 ppbv	99
38) Trichloroethene	7.83	130	643270	10.544 ppbv	98
39) 1,2-Dichloropropane	7.61	63	640279	10.143 ppbv	97
40) 1,4-Dioxane	7.82	88	230883	8.998 ppbv	78
41) Tetrahydrofuran	6.02	42	728542	11.657 ppbv	96
42) Bromodichloromethane	7.79	83	1151619	8.791 ppbv	98
43) Methyl Methacrylate	8.01	69	719921	10.827 ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	2781458	9.935	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	754192	11.239	ppbv	96
46) cis-1,3-Dichloropropene	8.70	75	927210	11.255	ppbv	97
47) 1,1,2-Trichloroethane	9.48	97	646421	9.704	ppbv	92
48) Dibromochloromethane	10.31	129	961333	9.384	ppbv	100
49) Bromoform	13.07	173	799670	9.072	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	1810167	10.694	ppbv	98
51) 2-Hexanone	10.13	43	1498422	11.317	ppbv #	97
52) Tetrachloroethene	11.24	164	663971	11.858	ppbv	98
53) Toluene	9.81	91	1878441	11.253	ppbv	100
54) 1,2-Dibromoethane	10.62	107	974368	9.961	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.14	131	731052	8.460	ppbv	94
57) Chlorobenzene	12.16	112	1360556	8.962	ppbv	95
58) Ethyl Benzene	12.73	91	2469667	10.422	ppbv	99
59) m/p-Xylene	13.01	91	3927787m	18.840	ppbv	
60) o-Xylene	13.71	91	1899299	9.232	ppbv	99
61) Styrene	13.55	104	1453321	11.163	ppbv	97
62) Isopropylbenzene	14.69	105	2905768	9.460	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	1272040	7.855	ppbv	99
64) n-propylbenzene	15.58	120	752504m	9.551	ppbv	
65) tert-Butylbenzene	16.77	119	2503387	9.397	ppbv	96
66) Benzyl Chloride	17.01	91	738619	8.167	ppbv	99
67) sec-Butylbenzene	17.32	105	3570568	9.389	ppbv	99
69) p-Isopropyltoluene	17.68	119	3035602	9.867	ppbv	98
70) n-Butylbenzene	18.58	91	3168345	9.676	ppbv	99
71) 2-Chlorotoluene	15.48	91	2207734	9.522	ppbv	98
72) 4-Ethyltoluene	15.86	105	2318322	10.100	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	2149304	9.622	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	2206684	9.051	ppbv	97
75) 1,3-Dichlorobenzene	17.03	146	1309323	9.145	ppbv	98
76) 1,4-Dichlorobenzene	17.17	146	1319352	9.699	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	1305782	9.680	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	1182865	10.287	ppbv	99
79) Naphthalene	22.24	128	2732134	14.390	ppbv	99
80) Naphthalene, 2-methyl-	25.00	142	831507	17.816	ppbv	98
81) 1,2,4-Trichlorobenzene	21.97	180	1406149	12.213	ppbv	100

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

