

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036589.D
 Acq On : 31 Mar 2021 4:08
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/1/2021 11:00:01 AM

Quant Time: Mar 31 16:05:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1308264	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3189885	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	3012623m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2494076	10.39	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.04	85	2510495	11.765	ppbv	96
3) Chlorodifluoromethane	2.98	51	2777076	11.361	ppbv	100
4) Chloromethane	3.13	50	1013382	11.737	ppbv	99
5) Vinyl Chloride	3.25	62	1013941	11.421	ppbv	99
6) Bromomethane	3.46	94	555768	11.371	ppbv	93
7) Chloroethane	3.55	64	358705	11.759	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	2337826	11.479	ppbv	98
9) Propene	3.00	41	924790	11.868	ppbv	98
10) Heptane	8.11	43	2387322	12.026	ppbv	100
11) Trichlorofluoromethane	3.94	101	2506723	11.527	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1637034	11.774	ppbv	98
13) Ethanol	3.60	45	87878m	9.470	ppbv	
14) Bromoethene	3.73	108	705294	12.202	ppbv	97
15) Acetone	3.84	43	1398046	10.857	ppbv	100
16) 1,3-Butadiene	3.32	39	1058160	11.804	ppbv	100
17) tert-Butyl alcohol	4.28	59	1264034	11.277	ppbv	98
18) 1,1-Dichloroethene	4.28	96	722517	11.683	ppbv	92
19) Isopropyl Alcohol	3.96	45	713979	10.080	ppbv	99
20) Methylene Chloride	4.34	84	614219	10.188	ppbv	98
21) Allyl Chloride	4.40	41	1239917	12.080	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	681224	11.881	ppbv	91
23) Vinyl Acetate	5.07	43	2605335	11.829	ppbv	97
24) 1,1-Dichloroethane	5.00	63	1878621	11.702	ppbv	# 98
25) Ethyl Acetate	5.67	43	3593577	11.739	ppbv	99
26) Hexane	5.68	57	1660361	11.688	ppbv	99
27) Carbon Disulfide	4.54	76	1812418	12.951	ppbv	97
28) Methyl tert-Butyl Ether	5.03	73	2028133	12.106	ppbv	99
29) Chloroform	5.74	83	2610600	11.491	ppbv	98
30) Cyclohexane	7.12	84	1411964	12.255	ppbv	100
31) cis-1,2-Dichloroethene	5.54	61	1671636	12.166	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2607180	11.387	ppbv	98
34) 2-Butanone	5.24	43	1795590	11.532	ppbv	99
35) Carbon Tetrachloride	7.01	117	2753530	11.239	ppbv	96
36) Benzene	6.88	78	3414018	11.605	ppbv	98
37) 1,2-Dichloroethane	6.30	62	2024233	11.690	ppbv	100
38) Trichloroethene	7.83	130	1215383	10.616	ppbv	98
39) 1,2-Dichloropropane	7.61	63	1359445	11.391	ppbv	97
40) 1,4-Dioxane	7.83	88	264226m	9.513	ppbv	
41) Tetrahydrofuran	6.04	42	828972	11.547	ppbv	96
42) Bromodichloromethane	7.78	83	2853860	12.117	ppbv	99
43) Methyl Methacrylate	8.01	69	1249919	12.652	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	5836155	11.272	ppbv	100
45) t-1,3-Dichloropropene	9.27	75	1381220	12.244	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1718209	11.916	ppbv	98
47) 1,1,2-Trichloroethane	9.46	97	1360161	11.252	ppbv	98
48) Dibromochloromethane	10.29	129	2239674	12.155	ppbv	100
49) Bromoform	13.03	173	1744146	11.748	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	2773919	12.312	ppbv	99
51) 2-Hexanone	10.13	43	1525975	13.421	ppbv #	100
52) Tetrachloroethene	11.21	164	1137419	10.499	ppbv	98
53) Toluene	9.80	91	3758951	11.998	ppbv	99
54) 1,2-Dibromoethane	10.60	107	1923708	11.269	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1497955	10.993	ppbv	98
57) Chlorobenzene	12.14	112	2688139	10.487	ppbv #	97
58) Ethyl Benzene	12.70	91	5000089	11.408	ppbv	99
59) m/p-Xylene	12.99	91	8398254m	21.968	ppbv	
60) o-Xylene	13.68	91	3959701	10.712	ppbv	100
61) Styrene	13.52	104	2302922	12.384	ppbv	100
62) Isopropylbenzene	14.66	105	5345716	10.739	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	2747211	9.743	ppbv	99
64) n-propylbenzene	15.55	120	1401021	11.512	ppbv	98
65) tert-Butylbenzene	16.74	119	4581391	10.614	ppbv	99
66) Benzyl Chloride	16.98	91	574747	12.047	ppbv	99
67) sec-Butylbenzene	17.29	105	6400278	10.505	ppbv	100
69) p-Isopropyltoluene	17.64	119	5301128	11.142	ppbv	100
70) n-Butylbenzene	18.54	91	5510510	11.170	ppbv	100
71) 2-Chlorotoluene	15.45	91	4049311	10.856	ppbv	99
72) 4-Ethyltoluene	15.83	105	4551410	11.237	ppbv	100
73) 1,3,5-Trimethylbenzene	15.99	105	4143643	10.961	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	4241621	10.485	ppbv	95
75) 1,3-Dichlorobenzene	16.99	146	2328906	10.228	ppbv	100
76) 1,4-Dichlorobenzene	17.13	146	2239155	9.904	ppbv	99
77) 1,2-Dichlorobenzene	17.81	146	2234145	10.438	ppbv	98
78) Hexachloro-1,3-Butadiene	23.37	225	1910086	9.964	ppbv	99
79) Naphthalene	22.19	128	3442391	14.582	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	688056	14.781	ppbv	99
81) 1,2,4-Trichlorobenzene	21.92	180	1906669	13.082	ppbv	100

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

