

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021422\
 Data File : VL038336.D
 Acq On : 14 Feb 2022 10:28
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/15/2022
 Supervised By : Mahesh Dadoda 02/18/2022

Quant Time: Feb 15 00:39:26 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 2022

QLast Update : Mon Jan 24 14:12:48 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.658	49	720803	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	7.163	114	2443721	10.000	ppbv	-0.02
55) Chlorobenzene-d5	12.070	117	2366900m	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.397 95 1836340 10.222 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.051	85	1201258	7.829	ppbv	98
3) Chlorodifluoromethane	2.989	51	1649956	11.498	ppbv	99
4) Chloromethane	3.141	50	570560	11.558	ppbv	99
5) Vinyl Chloride	3.256	62	574746	11.665	ppbv	96
6) Bromomethane	3.469	94	320349	12.026	ppbv	95
7) Chloroethane	3.555	64	190360	11.438	ppbv	100
8) Dichlorotetrafluoroethane	3.186	85	1354197	11.405	ppbv	98
9) Propene	3.012	41	556277	11.909	ppbv	99
10) Heptane	8.108	43	1427718	11.880	ppbv	99
11) Trichlorofluoromethane	3.948	101	1432697	11.985	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.481	101	1042001	11.532	ppbv	97
13) Ethanol	3.600	45	102094m	20.359	ppbv	
14) Bromoethene	3.735	108	416575	11.798	ppbv	97
15) Acetone	3.845	43	720198	11.334	ppbv	100
16) 1,3-Butadiene	3.327	39	543320	11.916	ppbv	100
17) tert-Butyl alcohol	4.279	59	875562	12.555	ppbv	98
18) 1,1-Dichloroethene	4.282	96	465849	11.856	ppbv	97
19) Isopropyl Alcohol	3.957	45	470186	11.829	ppbv #	98
20) Methylene Chloride	4.340	84	390854	10.576	ppbv	98
21) Allyl Chloride	4.404	41	710976	12.646	ppbv	100
22) trans-1,2-Dichloroethene	4.880	96	498677	12.282	ppbv	98
23) Vinyl Acetate	5.063	43	1145587	12.400	ppbv	99
24) 1,1-Dichloroethane	5.005	63	999661	12.146	ppbv	100
25) Ethyl Acetate	5.668	43	1778780	9.999	ppbv	100
26) Hexane	5.681	57	837471	10.121	ppbv	97
27) Carbon Disulfide	4.542	76	1208909	12.488	ppbv	99
28) Methyl tert-Butyl Ether	5.025	73	1039181	12.106	ppbv	99
29) Chloroform	5.742	83	1549400	11.471	ppbv	98
30) Cyclohexane	7.121	84	840649	11.668	ppbv	98
31) cis-1,2-Dichloroethene	5.539	61	748834	10.374	ppbv	98
32) 1,1,1-Trichloroethane	6.501	97	1604754	11.895	ppbv	99
34) 2-Butanone	5.234	43	781457	9.779	ppbv	99
35) Carbon Tetrachloride	7.009	117	1679574	9.791	ppbv	98
36) Benzene	6.880	78	2081282	9.629	ppbv	98
37) 1,2-Dichloroethane	6.298	62	1247122	10.073	ppbv	99
38) Trichloroethene	7.822	130	764840	9.499	ppbv	96
39) 1,2-Dichloropropane	7.600	63	849820	9.697	ppbv	97
40) 1,4-Dioxane	7.822	88	208765	9.897	ppbv	75
41) Tetrahydrofuran	6.038	42	531594	9.895	ppbv	99
42) Bromodichloromethane	7.777	83	1792433	9.758	ppbv	100
43) Methyl Methacrylate	8.002	69	800997	10.476	ppbv	99
44) 2,2,4-Trimethylpentane	7.854	57	3581764	9.403	ppbv	100
45) t-1,3-Dichloropropene	9.266	75	722719	11.634	ppbv	98

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Response via : Initial Calibration

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46) cis-1,3-Dichloropropene	8.687	75	894499	10.792	ppbv	98
47) 1,1,2-Trichloroethane	9.459	97	847955	9.847	ppbv	99
48) Dibromochloromethane	10.288	129	1453027	10.023	ppbv	98
49) Bromoform	13.024	173	1098168	10.508	ppbv	98
50) 4-Methyl-2-Pentanone	8.729	43	1430465	10.034	ppbv	99
51) 2-Hexanone	10.124	43	644176	10.260	ppbv #	99
52) Tetrachloroethene	11.205	164	693061	9.303	ppbv	98
53) Toluene	9.790	91	2384583	9.967	ppbv	99
54) 1,2-Dibromoethane	10.597	107	1249652	10.208	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.111	131	929177	8.969	ppbv	96
57) Chlorobenzene	12.131	112	1672696	8.831	ppbv	99
58) Ethyl Benzene	12.693	91	3142741	9.035	ppbv	100
59) m/p-Xylene	12.979	91	5341024m	17.997	ppbv	
60) o-Xylene	13.677	91	2500362	9.058	ppbv	100
61) Styrene	13.510	104	1298736	10.082	ppbv	99
62) Isopropylbenzene	14.651	105	3289107	8.938	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.661	83	1826705	8.944	ppbv	99
64) n-propylbenzene	15.545	120	852456	9.630	ppbv	96
65) tert-Butylbenzene	16.728	119	2896753	9.558	ppbv	100
66) Benzyl Chloride	16.973	91	168392	12.231	ppbv	95
67) sec-Butylbenzene	17.278	105	4049409	9.605	ppbv	100
69) p-Isopropyltoluene	17.635	119	3248858	10.069	ppbv	99
70) n-Butylbenzene	18.535	91	3283414	10.390	ppbv	100
71) 2-Chlorotoluene	15.436	91	2575257	9.449	ppbv	99
72) 4-Ethyltoluene	15.822	105	2890918	10.015	ppbv	100
73) 1,3,5-Trimethylbenzene	15.983	105	2544020	9.800	ppbv	100
74) 1,2,4-Trimethylbenzene	16.748	105	2652817	9.700	ppbv	98
75) 1,3-Dichlorobenzene	16.979	146	1476387	10.060	ppbv	99
76) 1,4-Dichlorobenzene	17.121	146	1434017	10.093	ppbv	98
77) 1,2-Dichlorobenzene	17.799	146	1376438	10.098	ppbv	99
78) Hexachloro-1,3-Butadiene	23.355	225	726738	7.669	ppbv	99
79) Naphthalene	22.175	128	1340158	10.481	ppbv #	97
80) Naphthalene,2-methyl-	24.960	142	307659	22.126	ppbv	92
81) 1,2,4-Trichlorobenzene	21.902	180	727015	9.667	ppbv	98

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

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