

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040522\
 Data File : VL038812.D
 Acq On : 5 Apr 2022 15:55
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 04/07/2022
 Supervised By :Semsettin Yesilyurt 04/07/2022

Quant Time: Apr 05 17:18:57 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL040522AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.665	49	1520415	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.173	114	4176497	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.079	117	3757487m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.407 95 2867797 9.955 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.051	85	1957799	9.579	ppbv	100
3) Chlorodifluoromethane	2.989	51	1741752	10.847	ppbv	98
4) Chloromethane	3.141	50	917967	10.412	ppbv	97
5) Vinyl Chloride	3.256	62	851739	9.508	ppbv	99
6) Bromomethane	3.472	94	411671	8.620	ppbv	100
7) Chloroethane	3.559	64	295626	9.969	ppbv	99
8) Dichlorotetrafluoroethane	3.189	85	1875770	9.192	ppbv	99
9) Propene	3.012	41	942804	12.161	ppbv	97
10) Heptane	8.115	43	2318642	12.512	ppbv	96
11) Trichlorofluoromethane	3.951	101	1671141	9.264	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.485	101	1261269	9.083	ppbv	96
13) Ethanol	3.604	45	51877m	6.066	ppbv	
14) Bromoethene	3.739	108	541003	8.766	ppbv #	96
15) Acetone	3.845	43	1350178	10.292	ppbv	98
16) 1,3-Butadiene	3.327	39	833703	11.198	ppbv	94
17) tert-Butyl alcohol	4.282	59	1374434	11.996	ppbv	99
18) 1,1-Dichloroethene	4.285	96	562389	9.015	ppbv	84
19) Isopropyl Alcohol	3.957	45	762610m	10.484	ppbv	
20) Methylene Chloride	4.343	84	501907	9.083	ppbv	88
21) Allyl Chloride	4.411	41	1061318	11.240	ppbv	93
22) trans-1,2-Dichloroethene	4.883	96	625735	9.670	ppbv	88
23) Vinyl Acetate	5.070	43	1439628	11.332	ppbv	98
24) 1,1-Dichloroethane	5.009	63	1311897	10.486	ppbv	99
25) Ethyl Acetate	5.671	43	3765534	11.402	ppbv	99
26) Hexane	5.684	57	1627244	11.006	ppbv	97
27) Carbon Disulfide	4.546	76	1618786	11.161	ppbv #	94
28) Methyl tert-Butyl Ether	5.028	73	1326514	12.044	ppbv	99
29) Chloroform	5.748	83	2323833	9.816	ppbv	99
30) Cyclohexane	7.124	84	1419832	11.044	ppbv	92
31) cis-1,2-Dichloroethene	5.546	61	1540868	11.083	ppbv	96
32) 1,1,1-Trichloroethane	6.510	97	2343492	10.258	ppbv	98
34) 2-Butanone	5.240	43	1611560	9.749	ppbv	97
35) Carbon Tetrachloride	7.015	117	2387315	9.851	ppbv	99
36) Benzene	6.886	78	3515770	10.907	ppbv	99
37) 1,2-Dichloroethane	6.301	62	1704032	10.393	ppbv	99
38) Trichloroethene	7.832	130	1412802	10.463	ppbv	99
39) 1,2-Dichloropropane	7.607	63	1367069	10.849	ppbv	96
40) 1,4-Dioxane	7.825	88	420120	9.600	ppbv #	1
41) Tetrahydrofuran	6.041	42	1486591	12.083	ppbv	98
42) Bromodichloromethane	7.787	83	2610451	10.619	ppbv	99
43) Methyl Methacrylate	8.005	69	1451105	12.126	ppbv	92
44) 2,2,4-Trimethylpentane	7.867	57	5790020	10.698	ppbv	98
45) t-1,3-Dichloropropene	9.272	75	1650872	13.568	ppbv	99

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 2

QLast Update : Mon Mar 21 17:09:26 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.693	75	2053234	12.479	ppbv	94
47) 1,1,2-Trichloroethane	9.468	97	1403725	10.434	ppbv	100
48) Dibromochloromethane	10.298	129	2331618	11.064	ppbv	99
49) Bromoform	13.031	173	1836633	10.693	ppbv	99
50) 4-Methyl-2-Pentanone	8.732	43	3676992	11.964	ppbv	98
51) 2-Hexanone	10.121	43	2871710	13.009	ppbv #	100
52) Tetrachloroethene	11.217	164	1192282	10.108	ppbv	96
53) Toluene	9.799	91	4024367	11.619	ppbv	99
54) 1,2-Dibromoethane	10.607	107	2004842	10.914	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.115	131	1572750	10.096	ppbv	96
57) Chlorobenzene	12.137	112	2900718	10.704	ppbv	97
58) Ethyl Benzene	12.703	91	5259150	11.972	ppbv	97
59) m/p-Xylene	12.989	91	8648646m	22.508	ppbv	
60) o-Xylene	13.687	91	4056207	11.118	ppbv	99
61) Styrene	13.520	104	2678460	13.538	ppbv	98
62) Isopropylbenzene	14.661	105	6067932	11.063	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.668	83	2574810	9.111	ppbv	99
64) n-propylbenzene	15.552	120	1654674	11.497	ppbv	96
65) tert-Butylbenzene	16.735	119	5299653	10.753	ppbv	98
66) Benzyl Chloride	16.979	91	1464925	15.698	ppbv	98
67) sec-Butylbenzene	17.285	105	7474303	10.605	ppbv	100
69) p-Isopropyltoluene	17.645	119	6340180	11.022	ppbv	98
70) n-Butylbenzene	18.542	91	6460720	10.889	ppbv	99
71) 2-Chlorotoluene	15.446	91	4679485	11.495	ppbv	100
72) 4-Ethyltoluene	15.828	105	5140295	11.935	ppbv	99
73) 1,3,5-Trimethylbenzene	15.989	105	4542188	11.574	ppbv	98
74) 1,2,4-Trimethylbenzene	16.754	105	4615488	10.797	ppbv	97
75) 1,3-Dichlorobenzene	16.989	146	2777583	10.202	ppbv	97
76) 1,4-Dichlorobenzene	17.127	146	2732652	10.092	ppbv	95
77) 1,2-Dichlorobenzene	17.809	146	2745639	10.179	ppbv	97
78) Hexachloro-1,3-Butadiene	23.365	225	1907761	7.653	ppbv	99
79) Naphthalene	22.182	128	4062602	12.439	ppbv	99
80) Naphthalene,2-methyl-	24.963	142	1113596	12.716	ppbv	95
81) 1,2,4-Trichlorobenzene	21.915	180	2154187	9.635	ppbv	100

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

