

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039922.D
 Acq On : 22 Nov 2022 18:12
 Operator : SY/AP
 Sample : VL1122ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1122ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/23/2022
 Supervised By : Mahesh Dadoda 11/24/2022

Quant Time: Nov 23 04:50:00 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2022

QLast Update : Tue Nov 22 03:45:31 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.173	49	1059576	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.636	114	2956433	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2882122	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.761 95 2187410 9.936 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.706	85	1693875	11.162	ppbv	98
3) Chlorodifluoromethane	2.652	51	1360527	9.305	ppbv	97
4) Chloromethane	2.790	50	867291	9.282	ppbv	97
5) Vinyl Chloride	2.899	62	720769	9.872	ppbv	100
6) Bromomethane	3.095	94	265634	10.666	ppbv	96
7) Chloroethane	3.176	64	272630	9.447	ppbv	94
8) Dichlorotetrafluoroethane	2.835	85	1802952	10.405	ppbv	100
9) Propene	2.671	41	586108	8.510	ppbv	95
10) Heptane	7.562	43	1501120	9.032	ppbv	98
11) Trichlorofluoromethane	3.539	101	1881838	10.167	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.044	101	1390911	9.929	ppbv	96
13) Ethanol	3.221	45	44140m	8.394	ppbv	
14) Bromoethene	3.343	108	566123	10.362	ppbv	98
15) Acetone	3.446	43	1455109	10.354	ppbv	99
16) 1,3-Butadiene	2.960	39	674653	9.632	ppbv	99
17) tert-Butyl alcohol	3.854	59	1464734	9.065	ppbv	100
18) 1,1-Dichloroethene	3.858	96	622566	9.742	ppbv	97
19) Isopropyl Alcohol	3.552	45	710832	9.342	ppbv #	33
20) Methylene Chloride	3.912	84	526965	7.739	ppbv	96
21) Allyl Chloride	3.973	41	912930	9.365	ppbv	100
22) trans-1,2-Dichloroethene	4.423	96	667163	10.266	ppbv	98
23) Vinyl Acetate	4.603	43	559949	9.698	ppbv	99
24) 1,1-Dichloroethane	4.542	63	1315917	9.452	ppbv	98
25) Ethyl Acetate	5.185	43	2720849	10.544	ppbv	99
26) Hexane	5.195	57	1146393	10.170	ppbv	99
27) Carbon Disulfide	4.102	76	1512042	10.625	ppbv	99
28) Methyl tert-Butyl Ether	4.565	73	1285046	9.105	ppbv	98
29) Chloroform	5.256	83	1956258	13.059	ppbv	99
30) Cyclohexane	6.581	84	1041125	9.412	ppbv	95
31) cis-1,2-Dichloroethene	5.060	61	1017018	9.765	ppbv	97
32) 1,1,1-Trichloroethane	5.983	97	2004505	10.715	ppbv	99
34) 2-Butanone	4.767	43	1453480	10.275	ppbv	98
35) Carbon Tetrachloride	6.475	117	2077899	12.376	ppbv	99
36) Benzene	6.353	78	2561454	10.193	ppbv	100
37) 1,2-Dichloroethane	5.787	62	1528788	11.101	ppbv	99
38) Trichloroethene	7.275	130	1461136	10.401	ppbv	97
39) 1,2-Dichloropropane	7.057	63	967413	9.881	ppbv	93
40) 1,4-Dioxane	7.266	88	423976	10.870	ppbv	83
41) Tetrahydrofuran	5.539	42	961574	9.846	ppbv	96
42) Bromodichloromethane	7.234	83	2189460	11.723	ppbv	98
43) Methyl Methacrylate	7.459	69	1044640	10.603	ppbv	99
44) 2,2,4-Trimethylpentane	7.311	57	4161741	9.920	ppbv	99
45) t-1,3-Dichloropropene	8.693	75	1023472	11.244	ppbv	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.127	75	1369539	10.861	ppbv	96
47) 1,1,2-Trichloroethane	8.883	97	1056841	10.503	ppbv	97
48) Dibromochloromethane	9.697	129	1819921	12.348	ppbv	100
49) Bromoform	12.397	173	1464692	12.277	ppbv	100
50) 4-Methyl-2-Pentanone	8.166	43	2579487	10.181	ppbv	99
51) 2-Hexanone	9.536	43	2088503	10.619	ppbv #	98
52) Tetrachloroethene	10.600	164	914258	9.725	ppbv	96
53) Toluene	9.208	91	2947345	10.296	ppbv	99
54) 1,2-Dibromoethane	9.992	107	1245000	11.594	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.497	131	1291828	10.965	ppbv	96
57) Chlorobenzene	11.513	112	2288256	10.384	ppbv	98
58) Ethyl Benzene	12.079	91	4009415	10.254	ppbv	98
59) m/p-Xylene	12.359	91	6794952m	20.763	ppbv	
60) o-Xylene	12.047	91	3236982	10.372	ppbv	98
61) Styrene	12.886	104	1975074	10.602	ppbv	99
62) Isopropylbenzene	14.018	105	4632562	10.294	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.037	83	1118351	10.732	ppbv	100
64) n-propylbenzene	14.905	120	1240691	10.538	ppbv	94
65) tert-Butylbenzene	16.079	119	4101636	10.418	ppbv	99
66) Benzyl Chloride	16.323	91	353343	10.473	ppbv	98
67) sec-Butylbenzene	16.626	105	5708025	10.544	ppbv	98
69) p-Isopropyltoluene	16.986	119	4759470	10.673	ppbv	99
70) n-Butylbenzene	17.876	91	4902561	11.089	ppbv	98
71) 2-Chlorotoluene	14.793	91	3566504	10.455	ppbv	99
72) 4-Ethyltoluene	15.182	105	3827583	10.911	ppbv	98
73) 1,3,5-Trimethylbenzene	15.339	105	3418251	10.644	ppbv	99
74) 1,2,4-Trimethylbenzene	16.098	105	3620705	10.650	ppbv	94
75) 1,3-Dichlorobenzene	16.323	146	2071560	10.830	ppbv	98
76) 1,4-Dichlorobenzene	16.465	146	2040221	10.759	ppbv	98
77) 1,2-Dichlorobenzene	17.130	146	1979772	10.735	ppbv	99
78) Hexachloro-1,3-Butadiene	22.628	225	1368842m	10.697	ppbv	
79) Naphthalene	21.371	128	2804795	13.784	ppbv	99
80) Naphthalene,2-methyl-	24.365	142	1007721	17.609	ppbv	94
81) 1,2,4-Trichlorobenzene	21.130	180	1493485	11.885	ppbv	99

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

