

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102122\
 Data File : VL039755.D
 Acq On : 21 Oct 2022 22:40
 Operator : SY/AP
 Sample : VL1021ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1021ABS02

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/24/2022
 Supervised By :Mahesh Dadoda 10/24/2022

Quant Time: Oct 22 02:39:09 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL102122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Sat Oct 22 02:12:34 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	871582	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	2659394	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2508309	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.764 95 1807173 10.149 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.867	85	1338244	9.169	ppbv	97
3) Chlorodifluoromethane	2.681	51	20171	0.182	ppbv	97
4) Chloromethane	2.825	50	57409	0.826	ppbv	97
5) Vinyl Chloride	2.931	62	54223	0.994	ppbv	92
6) Bromomethane	3.127	94	198752	9.839	ppbv	99
7) Chloroethane	3.208	64	207894	10.284	ppbv #	84
8) Dichlorotetrafluoroethane	2.867	85	1338244	9.883	ppbv	97
9) Propene	2.700	41	8072	0.159	ppbv	87
10) Heptane	7.577	43	1314916	11.175	ppbv	98
11) Trichlorofluoromethane	3.574	101	1392020	10.246	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.076	101	1046651	9.577	ppbv	98
13) Ethanol	3.266	45	33349m	9.653	ppbv	
14) Bromoethene	3.375	108	422593	10.151	ppbv	98
15) Acetone	3.484	43	1037450	9.859	ppbv	99
16) 1,3-Butadiene	2.992	39	183554	3.475	ppbv	91
17) tert-Butyl alcohol	3.889	59	955736	10.690	ppbv	99
18) 1,1-Dichloroethene	3.889	96	474914	10.127	ppbv	97
19) Isopropyl Alcohol	3.590	45	560848	10.913	ppbv	99
20) Methylene Chloride	3.941	84	400934	9.476	ppbv	98
21) Allyl Chloride	4.008	41	772317	10.633	ppbv	95
22) trans-1,2-Dichloroethene	4.452	96	488916	10.268	ppbv	96
23) Vinyl Acetate	4.632	43	418950	9.435	ppbv	99
24) 1,1-Dichloroethane	4.571	63	1024977	10.124	ppbv	99
25) Ethyl Acetate	5.211	43	2017372	9.568	ppbv	99
26) Hexane	5.214	57	820456	9.555	ppbv	98
27) Carbon Disulfide	4.134	76	1168135	10.864	ppbv	98
28) Methyl tert-Butyl Ether	4.597	73	800691	9.833	ppbv	100
29) Chloroform	5.278	83	1181677	8.585	ppbv	98
30) Cyclohexane	6.600	84	792693	10.981	ppbv	99
31) cis-1,2-Dichloroethene	5.082	61	798045	10.364	ppbv	99
32) 1,1,1-Trichloroethane	6.005	97	1382174	11.577	ppbv	99
34) 2-Butanone	4.793	43	1174833	9.577	ppbv	99
35) Carbon Tetrachloride	6.494	117	1494041	10.840	ppbv	97
36) Benzene	6.372	78	2007959	10.005	ppbv	97
37) 1,2-Dichloroethane	5.809	62	1081234	10.001	ppbv	100
38) Trichloroethene	7.288	130	1189876	11.053	ppbv	93
39) 1,2-Dichloropropane	7.073	63	764266	9.927	ppbv	97
40) 1,4-Dioxane	7.291	88	254771	8.639	ppbv #	86
41) Tetrahydrofuran	5.561	42	819357	10.418	ppbv	99
42) Bromodichloromethane	7.246	83	1598287	10.765	ppbv	99
43) Methyl Methacrylate	7.475	69	787562	10.908	ppbv	100
44) 2,2,4-Trimethylpentane	7.323	57	3424249	10.069	ppbv	99
45) t-1,3-Dichloropropene	8.703	75	725155	12.134	ppbv	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.140	75	1001759	11.833	ppbv	97
47) 1,1,2-Trichloroethane	8.892	97	856785	10.247	ppbv	97
48) Dibromochloromethane	9.703	129	1402403	11.118	ppbv	99
49) Bromoform	12.397	173	1178708	11.608	ppbv	99
50) 4-Methyl-2-Pentanone	8.179	43	2142985	10.715	ppbv	100
51) 2-Hexanone	9.545	43	1675637	11.689	ppbv	99
52) Tetrachloroethene	10.609	164	764150	10.547	ppbv	98
53) Toluene	9.214	91	2382879	10.995	ppbv	100
54) 1,2-Dibromoethane	9.999	107	952256	11.325	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.500	131	1020987	10.029	ppbv	97
57) Chlorobenzene	11.519	112	1827452	9.930	ppbv	99
58) Ethyl Benzene	12.079	91	3122437	10.778	ppbv	99
59) m/p-Xylene	12.365	91	5359287m	20.930	ppbv	
60) o-Xylene	13.050	91	2571455	10.498	ppbv	98
61) Styrene	12.889	104	1529254	11.933	ppbv	98
62) Isopropylbenzene	14.018	105	3730809	10.226	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.037	83	902592	9.642	ppbv	99
64) n-propylbenzene	14.908	120	965674	10.535	ppbv	99
65) tert-Butylbenzene	16.079	119	3259668	10.199	ppbv	100
66) Benzyl Chloride	16.313	91	236591	10.594	ppbv	100
67) sec-Butylbenzene	16.625	105	4566858	10.328	ppbv	100
69) p-Isopropyltoluene	16.985	119	3737320	10.487	ppbv	99
70) n-Butylbenzene	17.873	91	3712058	10.824	ppbv	99
71) 2-Chlorotoluene	14.789	91	2710701	10.441	ppbv	99
72) 4-Ethyltoluene	15.182	105	2981998	10.908	ppbv	99
73) 1,3,5-Trimethylbenzene	15.339	105	2665259	10.472	ppbv	100
74) 1,2,4-Trimethylbenzene	16.095	105	2903598	10.386	ppbv	93
75) 1,3-Dichlorobenzene	16.320	146	1684838	10.063	ppbv	100
76) 1,4-Dichlorobenzene	16.461	146	1616607	9.884	ppbv	99
77) 1,2-Dichlorobenzene	17.130	146	1599994	9.833	ppbv	98
78) Hexachloro-1,3-Butadiene	22.619	225	1041212m	8.856	ppbv	
79) Naphthalene	21.368	128	1944179	11.879	ppbv	98
80) Naphthalene,2-methyl-	24.368	142	680157	13.915	ppbv	99
81) 1,2,4-Trichlorobenzene	21.124	180	1130425	10.308	ppbv #	100

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

