

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022222\
 Data File : VL038378.D
 Acq On : 22 Feb 2022 6:04
 Operator : SY/AP
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/23/2022
 Supervised By : Amit Patel 02/23/2022

Quant Time: Feb 22 07:58:03 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 07:58:03 2022

QLast Update : Tue Feb 22 07:53:26 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.645	49	946699	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.150	114	2314230	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.057	117	2075674	10.000	ppbv	# 0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.384 95 1719039 10.829 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 108.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.041	85	96597	0.510	ppbv	94
3) Chlorodifluoromethane	2.983	51	90894	0.496	ppbv	97
4) Chloromethane	3.131	50	30499	0.483	ppbv	98
5) Vinyl Chloride	3.243	62	28736m	0.450	ppbv	
6) Bromomethane	3.468	94	17872m	0.528	ppbv	
7) Chloroethane	3.549	64	10466m	0.493	ppbv	
8) Dichlorotetrafluoroethane	3.176	85	76817m	0.504	ppbv	
9) Propene	3.002	41	29221m	0.491	ppbv	
10) Heptane	8.098	43	62975	0.410	ppbv	94
11) Trichlorofluoromethane	3.935	101	76798	0.502	ppbv	94
12) 1,1,2-Trichlorotrifluoro...	4.468	101	55636	0.481	ppbv	96
13) Ethanol	3.623	45	3041m	0.496	ppbv	
14) Bromoethene	3.729	108	21833m	0.483	ppbv	
15) Acetone	3.854	43	46157m	0.561	ppbv	
16) 1,3-Butadiene	3.317	39	27068m	0.461	ppbv	
17) tert-Butyl alcohol	4.304	59	42079m	0.475	ppbv	
18) 1,1-Dichloroethene	4.272	96	23789	0.476	ppbv	85
19) Isopropyl Alcohol	3.976	45	26942m	0.530	ppbv	
20) Methylene Chloride	4.330	84	22815m	0.484	ppbv	
21) Allyl Chloride	4.398	41	35738m	0.499	ppbv	
22) trans-1,2-Dichloroethene	4.867	96	23251m	0.448	ppbv	
23) Vinyl Acetate	5.063	43	51949m	0.441	ppbv	
24) 1,1-Dichloroethane	4.992	63	50568	0.482	ppbv	98
25) Ethyl Acetate	5.671	43	111301m	0.482	ppbv	
26) Hexane	5.665	57	49749m	0.465	ppbv	
27) Carbon Disulfide	4.536	76	52649m	0.430	ppbv	
28) Methyl tert-Butyl Ether	5.031	73	50199m	0.458	ppbv	
29) Chloroform	5.729	83	80241	0.461	ppbv	98
30) Cyclohexane	7.102	84	36603	0.401	ppbv	90
31) cis-1,2-Dichloroethene	5.526	61	46067m	0.472	ppbv	
32) 1,1,1-Trichloroethane	6.491	97	79019	0.454	ppbv	97
34) 2-Butanone	5.247	43	36962m	0.484	ppbv	
35) Carbon Tetrachloride	6.989	117	80930m	0.497	ppbv	
36) Benzene	6.864	78	99278	0.483	ppbv	96
37) 1,2-Dichloroethane	6.282	62	58629	0.498	ppbv	98
38) Trichloroethene	7.812	130	35859m	0.469	ppbv	
39) 1,2-Dichloropropane	7.590	63	40185	0.485	ppbv	# 86
40) 1,4-Dioxane	7.857	88	10142m	0.502	ppbv	
41) Tetrahydrofuran	6.060	42	22635m	0.442	ppbv	
42) Bromodichloromethane	7.767	83	82155	0.470	ppbv	93
43) Methyl Methacrylate	7.996	69	30767m	0.424	ppbv	
44) 2,2,4-Trimethylpentane	7.841	57	172217	0.476	ppbv	93
45) t-1,3-Dichloropropene	9.256	75	21574m	0.368	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.677	75	30626m	0.391	ppbv	
47) 1,1,2-Trichloroethane	9.442	97	40402m	0.492	ppbv	
48) Dibromochloromethane	10.272	129	59970m	0.434	ppbv	
49) Bromoform	13.008	173	40642	0.402	ppbv	95
50) 4-Methyl-2-Pentanone	8.742	43	56836m	0.418	ppbv	
51) 2-Hexanone	10.134	43	24831m	0.413	ppbv	
52) Tetrachloroethene	11.192	164	34701m	0.491	ppbv	
53) Toluene	9.774	91	102409m	0.451	ppbv	
54) 1,2-Dibromoethane	10.581	107	53839m	0.461	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.095	131	45666m	0.503	ppbv	
57) Chlorobenzene	12.114	112	87475m	0.529	ppbv	
58) Ethyl Benzene	12.680	91	139088	0.458	ppbv	92
59) m/p-Xylene	12.966	91	237245m	0.912	ppbv	
60) o-Xylene	13.658	91	114748	0.473	ppbv	99
61) Styrene	13.497	104	44648m	0.395	ppbv	
62) Isopropylbenzene	14.635	105	157711	0.487	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.645	83	91980	0.507	ppbv	98
64) n-propylbenzene	15.532	120	36659m	0.467	ppbv	
65) tert-Butylbenzene	16.709	119	128229	0.474	ppbv	93
66) Benzyl Chloride	16.957	91	5265m	0.415	ppbv	
67) sec-Butylbenzene	17.265	105	181670	0.482	ppbv	98
69) p-Isopropyltoluene	17.629	119	135923m	0.466	ppbv	
70) n-Butylbenzene	18.519	91	140729m	0.486	ppbv	
71) 2-Chlorotoluene	15.423	91	115490	0.476	ppbv	98
72) 4-Ethyltoluene	15.809	105	114961	0.447	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.970	105	106878	0.460	ppbv	90
74) 1,2,4-Trimethylbenzene	16.732	105	111155	0.452	ppbv #	85
75) 1,3-Dichlorobenzene	16.960	146	65987m	0.496	ppbv	
76) 1,4-Dichlorobenzene	17.105	146	64572m	0.503	ppbv	
77) 1,2-Dichlorobenzene	17.783	146	64053m	0.514	ppbv	
78) Hexachloro-1,3-Butadiene	23.339	225	54998m	0.632	ppbv	
79) Naphthalene	22.165	128	42836m	0.361	ppbv	
80) Naphthalene,2-methyl-	25.005	142	4830m	0.319	ppbv	
81) 1,2,4-Trichlorobenzene	21.892	180	31122m	0.443	ppbv	

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

Manual Integrations APPROVED

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