

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032122\
 Data File : VL038650.D
 Acq On : 21 Mar 2022 13:54
 Operator : SY/AP
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/22/2022
 Supervised By : Mahesh Dadoda 03/24/2022

Quant Time: Mar 21 15:06:42 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

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

QLast Update : Mon Mar 21 15:04:50 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.661	49	947204	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	2516835	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.076	117	2288280	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.404 95 1722074 9.898 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.054	85	154208	1.078	ppbv	96
3) Chlorodifluoromethane	2.989	51	108157	0.648	ppbv	98
4) Chloromethane	3.144	50	57895	0.935	ppbv	94
5) Vinyl Chloride	3.256	62	54733	0.881	ppbv	94
6) Bromomethane	3.478	94	32740m	0.982	ppbv	
7) Chloroethane	3.558	64	19361	0.962	ppbv	99
8) Dichlorotetrafluoroethane	3.189	85	136206	0.982	ppbv	95
9) Propene	3.015	41	51238	0.869	ppbv	99
10) Heptane	8.118	43	119484	0.847	ppbv	99
11) Trichlorofluoromethane	3.947	101	118729	0.947	ppbv	97
12) 1,1,2-Trichlorotrifluoro...	4.484	101	93606	0.960	ppbv	99
13) Ethanol	3.619	45	6644m	0.981	ppbv	
14) Bromoethene	3.742	108	41367m	0.995	ppbv	
15) Acetone	3.857	43	89713m	1.343	ppbv	
16) 1,3-Butadiene	3.327	39	48840	0.910	ppbv	100
17) tert-Butyl alcohol	4.295	59	78348m	1.079	ppbv	
18) 1,1-Dichloroethene	4.285	96	41419m	0.949	ppbv	
19) Isopropyl Alcohol	3.980	45	50082m	1.123	ppbv	
20) Methylene Chloride	4.343	84	37279m	0.927	ppbv	
21) Allyl Chloride	4.410	41	62435m	0.970	ppbv	
22) trans-1,2-Dichloroethene	4.883	96	42309m	0.925	ppbv	
23) Vinyl Acetate	5.073	43	75534	0.789	ppbv #	97
24) 1,1-Dichloroethane	5.008	63	80863	0.928	ppbv	99
25) Ethyl Acetate	5.680	43	215622	0.958	ppbv	98
26) Hexane	5.684	57	97460	0.922	ppbv	98
27) Carbon Disulfide	4.549	76	87084	0.827	ppbv #	90
28) Methyl tert-Butyl Ether	5.037	73	74082	0.861	ppbv	100
29) Chloroform	5.748	83	156131	0.949	ppbv	97
30) Cyclohexane	7.127	84	82860m	0.907	ppbv	
31) cis-1,2-Dichloroethene	5.542	61	87873	0.869	ppbv	92
32) 1,1,1-Trichloroethane	6.507	97	148256	0.930	ppbv	98
34) 2-Butanone	5.246	43	100362m	1.538	ppbv	
35) Carbon Tetrachloride	7.008	117	148871	0.867	ppbv	91
36) Benzene	6.886	78	200870	0.884	ppbv	99
37) 1,2-Dichloroethane	6.301	62	102654m	0.946	ppbv	
38) Trichloroethene	7.828	130	85991m	0.948	ppbv	
39) 1,2-Dichloropropane	7.610	63	76104	0.871	ppbv	95
40) 1,4-Dioxane	7.848	88	28142	1.287	ppbv	90
41) Tetrahydrofuran	6.066	42	75304m	1.411	ppbv	
42) Bromodichloromethane	7.783	83	148176	0.861	ppbv	97
43) Methyl Methacrylate	8.012	69	68673	0.881	ppbv	100
44) 2,2,4-Trimethylpentane	7.860	57	346410	0.902	ppbv	98
45) t-1,3-Dichloropropene	9.272	75	64598m	1.150	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.693	75	94191m	1.226	ppbv	
47) 1,1,2-Trichloroethane	9.462	97	82763	0.930	ppbv	96
48) Dibromochloromethane	10.294	129	121107	0.857	ppbv	100
49) Bromoform	13.031	173	95480	0.882	ppbv	99
50) 4-Methyl-2-Pentanone	8.745	43	183929m	1.375	ppbv	
51) 2-Hexanone	10.140	43	119093	2.107	ppbv #	97
52) Tetrachloroethene	11.214	164	71858	0.863	ppbv	95
53) Toluene	9.799	91	207872	0.857	ppbv	99
54) 1,2-Dibromoethane	10.600	107	110364m	0.868	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.114	131	98014	1.052	ppbv #	1
57) Chlorobenzene	12.137	112	171614	0.982	ppbv #	94
58) Ethyl Benzene	12.703	91	265029	0.895	ppbv	97
59) m/p-Xylene	12.986	91	479351m	1.890	ppbv	
60) o-Xylene	13.680	91	227072	0.948	ppbv	99
61) Styrene	13.519	104	107111	0.908	ppbv	96
62) Isopropylbenzene	14.654	105	345293	1.045	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.664	83	167938	0.830	ppbv	99
64) n-propylbenzene	15.551	120	86539	1.027	ppbv	82
65) tert-Butylbenzene	16.735	119	314587	1.064	ppbv	97
66) Benzyl Chloride	16.976	91	44556m	2.544	ppbv	
67) sec-Butylbenzene	17.284	105	452957	1.078	ppbv	98
69) p-Isopropyltoluene	17.641	119	360911	1.037	ppbv	99
70) n-Butylbenzene	18.538	91	362881	0.979	ppbv	99
71) 2-Chlorotoluene	15.442	91	250800	1.022	ppbv	98
72) 4-Ethyltoluene	15.828	105	258227	0.939	ppbv	98
73) 1,3,5-Trimethylbenzene	15.985	105	234126	0.917	ppbv	97
74) 1,2,4-Trimethylbenzene	16.751	105	268193	0.983	ppbv	96
75) 1,3-Dichlorobenzene	16.985	146	170746m	0.992	ppbv	
76) 1,4-Dichlorobenzene	17.127	146	167146m	0.980	ppbv	
77) 1,2-Dichlorobenzene	17.805	146	169750m	0.975	ppbv	
78) Hexachloro-1,3-Butadiene	23.361	225	167638	0.987	ppbv	98
79) Naphthalene	22.185	128	199677	0.814	ppbv	97
80) Naphthalene,2-methyl-	24.966	142	34684	0.801	ppbv	94
81) 1,2,4-Trichlorobenzene	21.918	180	132116m	0.842	ppbv	

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

