

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032822\
 Data File : VL038767.D
 Acq On : 28 Mar 2022 9:25
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/29/2022
 Supervised By : Mahesh Dadoda 03/29/2022

Quant Time: Mar 28 14:24:43 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 28 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	5.671	49	911350	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	7.179	114	2473776	10.000	ppbv	0.01
55) Chlorobenzene-d5	12.089	117	2266942m	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.417 95 1808211 10.404 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.057	85	970317	7.920	ppbv	100
3) Chlorodifluoromethane	2.999	51	827758	8.600	ppbv	96
4) Chloromethane	3.147	50	465857	8.815	ppbv	99
5) Vinyl Chloride	3.266	62	497378	9.263	ppbv	98
6) Bromomethane	3.481	94	299384	10.459	ppbv	98
7) Chloroethane	3.565	64	178171	10.023	ppbv	98
8) Dichlorotetrafluoroethane	3.195	85	1196244	9.780	ppbv	99
9) Propene	3.018	41	351723	7.569	ppbv	99
10) Heptane	8.124	43	971042	8.742	ppbv	97
11) Trichlorofluoromethane	3.957	101	1232064	11.394	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.491	101	960318	11.537	ppbv	99
13) Ethanol	3.613	45	36858m	7.190	ppbv	
14) Bromoethene	3.748	108	404803	10.943	ppbv	97
15) Acetone	3.854	43	813255	10.342	ppbv	100
16) 1,3-Butadiene	3.337	39	430608	9.649	ppbv	97
17) tert-Butyl alcohol	4.288	59	841157	12.248	ppbv	99
18) 1,1-Dichloroethene	4.295	96	431544	11.541	ppbv	96
19) Isopropyl Alcohol	3.970	45	465799	10.684	ppbv	99
20) Methylene Chloride	4.350	84	362151	10.934	ppbv	98
21) Allyl Chloride	4.417	41	638223	11.277	ppbv	97
22) trans-1,2-Dichloroethene	4.890	96	461783	11.906	ppbv	97
23) Vinyl Acetate	5.076	43	954942	12.541	ppbv	99
24) 1,1-Dichloroethane	5.015	63	852776	11.371	ppbv	99
25) Ethyl Acetate	5.681	43	1781399	8.999	ppbv	99
26) Hexane	5.694	57	795427	8.975	ppbv	98
27) Carbon Disulfide	4.555	76	1118522	12.865	ppbv	99
28) Methyl tert-Butyl Ether	5.038	73	786494	11.913	ppbv	98
29) Chloroform	5.758	83	1339924	9.442	ppbv	99
30) Cyclohexane	7.134	84	686809	8.913	ppbv	96
31) cis-1,2-Dichloroethene	5.552	61	651776	7.821	ppbv	95
32) 1,1,1-Trichloroethane	6.517	97	1320058	9.640	ppbv	99
34) 2-Butanone	5.247	43	968055	9.887	ppbv	97
35) Carbon Tetrachloride	7.021	117	1401594	9.765	ppbv	98
36) Benzene	6.896	78	1674543	8.771	ppbv	99
37) 1,2-Dichloroethane	6.311	62	902401	9.292	ppbv	99
38) Trichloroethene	7.838	130	756690	9.461	ppbv	99
39) 1,2-Dichloropropane	7.616	63	639037	8.562	ppbv	98
40) 1,4-Dioxane	7.835	88	229140	8.840	ppbv #	1
41) Tetrahydrofuran	6.054	42	593349	8.142	ppbv	93
42) Bromodichloromethane	7.796	83	1412409	9.700	ppbv	97
43) Methyl Methacrylate	8.015	69	684184	9.652	ppbv	93
44) 2,2,4-Trimethylpentane	7.874	57	2751252	8.583	ppbv	100
45) t-1,3-Dichloropropene	9.279	75	784159	10.880	ppbv	99

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.706	75	991436	10.173	ppbv	99
47) 1,1,2-Trichloroethane	9.478	97	694078	8.710	ppbv	97
48) Dibromochloromethane	10.304	129	1250854	10.021	ppbv	99
49) Bromoform	13.044	173	1019326	10.020	ppbv	99
50) 4-Methyl-2-Pentanone	8.742	43	1615850	8.877	ppbv	99
51) 2-Hexanone	10.134	43	1231142	9.416	ppbv #	98
52) Tetrachloroethene	11.224	164	618143	8.847	ppbv	96
53) Toluene	9.809	91	1940280	9.458	ppbv	99
54) 1,2-Dibromoethane	10.613	107	1015416	9.332	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.127	131	877752	9.339	ppbv #	58
57) Chlorobenzene	12.150	112	1457145	8.912	ppbv	98
58) Ethyl Benzene	12.713	91	2488616	9.390	ppbv	100
59) m/p-Xylene	12.996	91	4291215m	18.511	ppbv	
60) o-Xylene	13.693	91	2058072	9.350	ppbv	99
61) Styrene	13.529	104	1203076	10.079	ppbv	99
62) Isopropylbenzene	14.667	105	2963671	8.956	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.677	83	1347615	7.904	ppbv	100
64) n-propylbenzene	15.565	120	786958	9.063	ppbv	96
65) tert-Butylbenzene	16.745	119	2680240	9.014	ppbv	98
66) Benzyl Chloride	16.989	91	665905	11.828	ppbv	99
67) sec-Butylbenzene	17.294	105	3802596	8.942	ppbv	100
69) p-Isopropyltoluene	17.651	119	3174941	9.148	ppbv	99
70) n-Butylbenzene	18.552	91	3325897	9.291	ppbv	100
71) 2-Chlorotoluene	15.455	91	2183663	8.891	ppbv	99
72) 4-Ethyltoluene	15.838	105	2440895	9.394	ppbv	100
73) 1,3,5-Trimethylbenzene	15.999	105	2129710	8.995	ppbv	98
74) 1,2,4-Trimethylbenzene	16.764	105	2348999	9.108	ppbv	96
75) 1,3-Dichlorobenzene	16.999	146	1435658	8.740	ppbv	100
76) 1,4-Dichlorobenzene	17.140	146	1391121	8.516	ppbv	97
77) 1,2-Dichlorobenzene	17.818	146	1431453	8.797	ppbv	99
78) Hexachloro-1,3-Butadiene	23.375	225	1307127	8.691	ppbv	100
79) Naphthalene	22.198	128	2304439	11.696	ppbv	99
80) Naphthalene,2-methyl-	24.969	142	437760	8.285	ppbv	98
81) 1,2,4-Trichlorobenzene	21.924	180	1356595	10.058	ppbv	98

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

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