

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL040591.D
 Acq On : 7 Aug 2023 9:04
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/08/2023
 Supervised By : Mahesh Dadoda 08/09/2023

Quant Time: Aug 08 01:39:46 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 4 2023

QLast Update : Mon Jul 10 16:32:00 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1195268	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2939992	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2820616m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.777 95 2433717 10.902 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 109.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.732	85	2381430	9.961	ppbv	100
3) Chlorodifluoromethane	2.674	51	1730358	9.133	ppbv	96
4) Chloromethane	2.816	50	660114	8.795	ppbv	94
5) Vinyl Chloride	2.922	62	731327	9.280	ppbv	99
6) Bromomethane	3.121	94	312366	9.391	ppbv	99
7) Chloroethane	3.198	64	264180	9.554	ppbv	98
8) Dichlorotetrafluoroethane	2.857	85	1892287	9.620	ppbv	99
9) Propene	2.693	41	508804	7.845	ppbv	97
10) Heptane	7.581	43	1347575	9.409	ppbv	100
11) Trichlorofluoromethane	3.562	101	2015104	10.445	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.066	101	1419989	10.452	ppbv	95
13) Ethanol	3.240	45	111382	7.893	ppbv	100
14) Bromoethene	3.369	108	604619	10.349	ppbv	97
15) Acetone	3.468	43	1316877	9.571	ppbv	97
16) 1,3-Butadiene	2.986	39	667323	9.614	ppbv	99
17) tert-Butyl alcohol	3.877	59	1366555	9.603	ppbv	99
18) 1,1-Dichloroethene	3.883	96	638657	10.225	ppbv	97
19) Isopropyl Alcohol	3.578	45	770059	9.750	ppbv #	96
20) Methylene Chloride	3.935	84	562683	9.615	ppbv	98
21) Allyl Chloride	3.999	41	739840	9.416	ppbv	93
22) trans-1,2-Dichloroethene	4.446	96	637148	10.339	ppbv	97
23) Vinyl Acetate	4.626	43	1400368	10.684	ppbv #	98
24) 1,1-Dichloroethane	4.565	63	1313863	9.875	ppbv	99
25) Ethyl Acetate	5.205	43	2408769	9.196	ppbv	99
26) Hexane	5.211	57	1065467	8.756	ppbv	95
27) Carbon Disulfide	4.124	76	1606707	11.225	ppbv	100
28) Methyl tert-Butyl Ether	4.587	73	922787	9.420	ppbv	100
29) Chloroform	5.279	83	1894564	9.387	ppbv	99
30) Cyclohexane	6.603	84	882269	8.713	ppbv	98
31) cis-1,2-Dichloroethene	5.079	61	1085241	9.023	ppbv	98
32) 1,1,1-Trichloroethane	6.008	97	1936283	9.805	ppbv	99
34) 2-Butanone	4.787	43	1423595	9.799	ppbv	98
35) Carbon Tetrachloride	6.497	117	1989014	11.242	ppbv	99
36) Benzene	6.375	78	2199100	9.296	ppbv	99
37) 1,2-Dichloroethane	5.809	62	1433713	10.302	ppbv	97
38) Trichloroethene	7.291	130	888816	9.933	ppbv	95
39) 1,2-Dichloropropane	7.079	63	857092	9.412	ppbv	94
40) 1,4-Dioxane	7.285	88	294259	10.331	ppbv #	29
41) Tetrahydrofuran	5.555	42	800301	9.440	ppbv	97
42) Bromodichloromethane	7.253	83	2077237	10.732	ppbv	99
43) Methyl Methacrylate	7.478	69	915358	10.338	ppbv	97
44) 2,2,4-Trimethylpentane	7.330	57	3718446	9.770	ppbv	97
45) t-1,3-Dichloropropene	8.716	75	613517	10.801	ppbv	99

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.147	75	745877	10.235	ppbv	92
47) 1,1,2-Trichloroethane	8.902	97	967194	9.626	ppbv	97
48) Dibromochloromethane	9.712	129	1684664	10.845	ppbv	100
49) Bromoform	12.413	173	1394961	11.327	ppbv	100
50) 4-Methyl-2-Pentanone	8.185	43	2239546	10.610	ppbv	96
51) 2-Hexanone	9.555	43	1591886	10.665	ppbv #	97
52) Tetrachloroethene	10.616	164	773117	10.092	ppbv	96
53) Toluene	9.224	91	2554970	9.943	ppbv	100
54) 1,2-Dibromoethane	10.008	107	1262949	10.113	ppbv	94
56) 1,1,1,2-Tetrachloroethane	11.513	131	1271394	10.065	ppbv	98
57) Chlorobenzene	11.532	112	2055964	9.347	ppbv	99
58) Ethyl Benzene	12.095	91	3602373	10.177	ppbv	100
59) m/p-Xylene	12.375	91	6393629m	20.237	ppbv	
60) o-Xylene	13.063	91	3106087	10.320	ppbv	99
61) Styrene	12.902	104	1483290	10.684	ppbv	97
62) Isopropylbenzene	14.031	105	4476855	9.925	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.050	83	2240395	10.630	ppbv	100
64) n-propylbenzene	14.918	120	1167066	10.000	ppbv	93
65) tert-Butylbenzene	16.092	119	3980254	9.967	ppbv	96
66) Benzyl Chloride	16.333	91	334919	11.855	ppbv	96
67) sec-Butylbenzene	16.638	105	5735612	9.775	ppbv	99
69) p-Isopropyltoluene	16.998	119	4661745	9.614	ppbv	98
70) n-Butylbenzene	17.889	91	5207656	9.631	ppbv	99
71) 2-Chlorotoluene	14.802	91	3528467	10.150	ppbv	97
72) 4-Ethyltoluene	15.195	105	3642151	10.324	ppbv	98
73) 1,3,5-Trimethylbenzene	15.355	105	3147048	10.120	ppbv	99
74) 1,2,4-Trimethylbenzene	16.111	105	3582709	9.881	ppbv	96
75) 1,3-Dichlorobenzene	16.333	146	2056120	9.354	ppbv	99
76) 1,4-Dichlorobenzene	16.477	146	2014385	9.345	ppbv	99
77) 1,2-Dichlorobenzene	17.146	146	1964210	9.345	ppbv	99
78) Hexachloro-1,3-Butadiene	22.635	225	1409853	7.142	ppbv	100
79) Naphthalene	21.387	128	2846763	9.280	ppbv	98
80) Naphthalene,2-methyl-	24.377	142	783406	6.194	ppbv	97
81) 1,2,4-Trichlorobenzene	21.140	180	1673313	7.915	ppbv	100

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

