

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
 Data File : VL040720.D
 Acq On : 27 Sep 2023 8:57
 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 09/28/2023
 Supervised By : Mahesh Dadoda 09/28/2023

Quant Time: Sep 28 01:42:31 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

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

QLast Update : Tue Sep 19 05:12:43 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.173	49	1296358	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.632	114	3563524	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.439	117	3375324m	10.000	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.748 95 2404764 9.221 ppbv -0.04
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.723	85	2497041	8.742	ppbv	100
3) Chlorodifluoromethane	2.668	51	1908217	9.036	ppbv	95
4) Chloromethane	2.806	50	773195	9.563	ppbv	97
5) Vinyl Chloride	2.912	62	851396	8.910	ppbv	96
6) Bromomethane	3.108	94	419233	9.093	ppbv	98
7) Chloroethane	3.186	64	303520	9.248	ppbv	96
8) Dichlorotetrafluoroethane	2.851	85	2050736	8.697	ppbv	100
9) Propene	2.687	41	617403	10.148	ppbv	96
10) Heptane	7.555	43	1596809	11.648	ppbv	98
11) Trichlorofluoromethane	3.549	101	2019072	8.041	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.054	101	1573894	8.763	ppbv	99
13) Ethanol	3.227	45	160553m	8.916	ppbv	
14) Bromoethene	3.356	108	667364	8.858	ppbv	99
15) Acetone	3.456	43	1436203	8.399	ppbv	98
16) 1,3-Butadiene	2.977	39	756885	10.157	ppbv	96
17) tert-Butyl alcohol	3.867	59	1498215	8.554	ppbv	98
18) 1,1-Dichloroethene	3.867	96	704384	8.823	ppbv	97
19) Isopropyl Alcohol	3.565	45	870424	8.448	ppbv	99
20) Methylene Chloride	3.919	84	649788m	7.060	ppbv	
21) Allyl Chloride	3.983	41	1039110	9.916	ppbv	96
22) trans-1,2-Dichloroethene	4.430	96	761272	9.644	ppbv	98
23) Vinyl Acetate	4.610	43	1871454	10.583	ppbv	99
24) 1,1-Dichloroethane	4.546	63	1530582	9.249	ppbv	99
25) Ethyl Acetate	5.185	43	2829268	10.259	ppbv	99
26) Hexane	5.195	57	1324666	10.158	ppbv	91
27) Carbon Disulfide	4.108	76	1861568	10.237	ppbv	99
28) Methyl tert-Butyl Ether	4.571	73	1162298	10.359	ppbv	99
29) Chloroform	5.256	83	2067997	9.185	ppbv	99
30) Cyclohexane	6.578	84	1117190	11.376	ppbv	97
31) cis-1,2-Dichloroethene	5.060	61	1300819	10.752	ppbv	93
32) 1,1,1-Trichloroethane	5.983	97	2047837	8.896	ppbv	99
34) 2-Butanone	4.771	43	1706874	9.524	ppbv	97
35) Carbon Tetrachloride	6.472	117	2100677	8.585	ppbv	97
36) Benzene	6.349	78	2786908	10.561	ppbv	95
37) 1,2-Dichloroethane	5.787	62	1519023	8.411	ppbv	98
38) Trichloroethene	7.269	130	1087713	10.809	ppbv	97
39) 1,2-Dichloropropane	7.050	63	1044192	10.280	ppbv	94
40) 1,4-Dioxane	7.263	88	426221	11.100	ppbv #	98
41) Tetrahydrofuran	5.536	42	1037446	11.289	ppbv	99
42) Bromodichloromethane	7.227	83	2292563	9.303	ppbv	99
43) Methyl Methacrylate	7.449	69	1133075	11.552	ppbv	96
44) 2,2,4-Trimethylpentane	7.304	57	4495811	10.700	ppbv	97
45) t-1,3-Dichloropropene	8.684	75	986092	12.965	ppbv	97

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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.121	75	1151004	12.369	ppbv	95
47) 1,1,2-Trichloroethane	8.873	97	1157073	9.926	ppbv	97
48) Dibromochloromethane	9.680	129	1964473	10.216	ppbv	99
49) Bromoform	12.378	173	1626951	10.302	ppbv	99
50) 4-Methyl-2-Pentanone	8.156	43	2579216	10.650	ppbv	97
51) 2-Hexanone	9.526	43	1855633	11.102	ppbv #	93
52) Tetrachloroethene	10.590	164	988488	11.484	ppbv	96
53) Toluene	9.195	91	3213381	11.534	ppbv	100
54) 1,2-Dibromoethane	9.983	107	1653139	11.111	ppbv	94
56) 1,1,1,2-Tetrachloroethane	11.481	131	1439518	8.947	ppbv	98
57) Chlorobenzene	11.500	112	2496751	9.768	ppbv	99
58) Ethyl Benzene	12.063	91	4263178	11.078	ppbv	99
59) m/p-Xylene	12.346	91	7207444m	19.946	ppbv	
60) o-Xylene	13.031	91	3455467	10.027	ppbv	99
61) Styrene	12.870	104	1819971	12.601	ppbv	97
62) Isopropylbenzene	14.002	105	5032803	9.673	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.021	83	2482460	9.191	ppbv	99
64) n-propylbenzene	14.892	120	1351643	10.390	ppbv	92
65) tert-Butylbenzene	16.063	119	4476112	9.585	ppbv	95
66) Benzyl Chloride	16.298	91	576423	10.576	ppbv	98
67) sec-Butylbenzene	16.606	105	6246321	9.343	ppbv	98
69) p-Isopropyltoluene	16.970	119	5129283	9.762	ppbv	98
70) n-Butylbenzene	17.860	91	5437105	9.402	ppbv	99
71) 2-Chlorotoluene	14.777	91	3886955	10.097	ppbv	97
72) 4-Ethyltoluene	15.166	105	4011794	10.381	ppbv	99
73) 1,3,5-Trimethylbenzene	15.323	105	3474025	9.984	ppbv	97
74) 1,2,4-Trimethylbenzene	16.079	105	3874049	9.133	ppbv	96
75) 1,3-Dichlorobenzene	16.304	146	2284593	9.452	ppbv	98
76) 1,4-Dichlorobenzene	16.445	146	2230323	9.378	ppbv	98
77) 1,2-Dichlorobenzene	17.114	146	2208979	9.176	ppbv	98
78) Hexachloro-1,3-Butadiene	22.606	225	1524091	8.367	ppbv	99
79) Naphthalene	21.355	128	3112217	11.790	ppbv	99
80) Naphthalene,2-methyl-	24.355	142	824107	12.746	ppbv	96
81) 1,2,4-Trichlorobenzene	21.114	180	1648369	9.560	ppbv	99

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

