

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091423\
 Data File : VL040683.D
 Acq On : 14 Sep 2023 13:46
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/15/2023
 Supervised By : Mahesh Dadoda 09/15/2023

Quant Time: Sep 14 14:42:13 2023

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

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

QLast Update : Wed Aug 16 05:43:50 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1175923	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2996181	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.462	117	2890100m	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 2288772 9.958 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.719	85	2419577	9.553	ppbv	99
3) Chlorodifluoromethane	2.665	51	1716313	8.889	ppbv	95
4) Chloromethane	2.803	50	667781	8.867	ppbv	98
5) Vinyl Chloride	2.909	62	738906	9.241	ppbv	100
6) Bromomethane	3.108	94	405262	9.668	ppbv	96
7) Chloroethane	3.189	64	277594	9.517	ppbv	91
8) Dichlorotetrafluoroethane	2.848	85	1981695	9.667	ppbv	99
9) Propene	2.684	41	493361	8.246	ppbv	100
10) Heptane	7.574	43	1256339	9.119	ppbv	99
11) Trichlorofluoromethane	3.552	101	2143449	10.483	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.057	101	1522129	10.029	ppbv	99
13) Ethanol	3.227	45	145787	8.732	ppbv	95
14) Bromoethene	3.356	108	652686	10.591	ppbv	98
15) Acetone	3.455	43	1326105	9.220	ppbv	99
16) 1,3-Butadiene	2.973	39	687278	9.608	ppbv	98
17) tert-Butyl alcohol	3.867	59	1544005	10.122	ppbv	99
18) 1,1-Dichloroethene	3.870	96	688483	10.010	ppbv	97
19) Isopropyl Alcohol	3.565	45	951256	10.430	ppbv	100
20) Methylene Chloride	3.922	84	596347	8.484	ppbv	95
21) Allyl Chloride	3.986	41	915756	9.626	ppbv	96
22) trans-1,2-Dichloroethene	4.433	96	706343	10.462	ppbv	98
23) Vinyl Acetate	4.616	43	1556292	9.496	ppbv	98
24) 1,1-Dichloroethane	4.552	63	1415861	10.102	ppbv	99
25) Ethyl Acetate	5.195	43	2329326	8.623	ppbv	100
26) Hexane	5.205	57	1006889	7.704	ppbv	94
27) Carbon Disulfide	4.115	76	1719745	11.053	ppbv	99
28) Methyl tert-Butyl Ether	4.578	73	980768	9.707	ppbv	100
29) Chloroform	5.266	83	1899705	9.183	ppbv	100
30) Cyclohexane	6.594	84	869961	8.699	ppbv	98
31) cis-1,2-Dichloroethene	5.070	61	1060279	8.989	ppbv	94
32) 1,1,1-Trichloroethane	5.996	97	1940995	9.798	ppbv	99
34) 2-Butanone	4.777	43	1403471	9.289	ppbv	98
35) Carbon Tetrachloride	6.484	117	2057973	10.977	ppbv	97
36) Benzene	6.362	78	2131865	8.944	ppbv	97
37) 1,2-Dichloroethane	5.799	62	1459338	10.152	ppbv	98
38) Trichloroethene	7.285	130	915444	9.919	ppbv	96
39) 1,2-Dichloropropane	7.066	63	820034	9.043	ppbv	97
40) 1,4-Dioxane	7.279	88	368539	10.727	ppbv #	1
41) Tetrahydrofuran	5.549	42	751022	8.794	ppbv	99
42) Bromodichloromethane	7.243	83	2073537	10.363	ppbv	98
43) Methyl Methacrylate	7.468	69	886491	9.933	ppbv	98
44) 2,2,4-Trimethylpentane	7.320	57	3544470	9.200	ppbv	97
45) t-1,3-Dichloropropene	8.703	75	767696	10.771	ppbv	98

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.137	75	882266	10.147	ppbv	96
47) 1,1,2-Trichloroethane	8.896	97	955193	9.325	ppbv	97
48) Dibromochloromethane	9.703	129	1717461	10.713	ppbv	99
49) Bromoform	12.404	173	1482675	11.543	ppbv	100
50) 4-Methyl-2-Pentanone	8.172	43	2161594	9.793	ppbv	98
51) 2-Hexanone	9.545	43	1569123	10.089	ppbv #	97
52) Tetrachloroethene	10.610	164	790140	10.585	ppbv	96
53) Toluene	9.217	91	2538829	10.023	ppbv	99
54) 1,2-Dibromoethane	10.002	107	1376935	10.557	ppbv	96
56) 1,1,1,2-Tetrachloroethane	11.507	131	1298581	9.711	ppbv	96
57) Chlorobenzene	11.523	112	2067828	9.271	ppbv	98
58) Ethyl Benzene	12.082	91	3536716	10.148	ppbv	100
59) m/p-Xylene	12.368	91	6359063m	20.003	ppbv	
60) o-Xylene	13.053	91	3077163	10.212	ppbv	99
61) Styrene	12.896	104	1471009	11.142	ppbv	98
62) Isopropylbenzene	14.024	105	4476584	9.817	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.040	83	2221203	9.843	ppbv	98
64) n-propylbenzene	14.912	120	1152034	9.996	ppbv	100
65) tert-Butylbenzene	16.085	119	4040586	10.223	ppbv	98
66) Benzyl Chloride	16.323	91	500252	10.065	ppbv	100
67) sec-Butylbenzene	16.632	105	5704979	9.894	ppbv	99
69) p-Isopropyltoluene	16.992	119	4627903	10.257	ppbv	99
70) n-Butylbenzene	17.883	91	5025551	10.202	ppbv	100
71) 2-Chlorotoluene	14.796	91	3493873	10.326	ppbv	99
72) 4-Ethyltoluene	15.188	105	3589579	10.553	ppbv	99
73) 1,3,5-Trimethylbenzene	15.346	105	3130023	10.294	ppbv	99
74) 1,2,4-Trimethylbenzene	16.101	105	3570409	10.054	ppbv #	92
75) 1,3-Dichlorobenzene	16.326	146	2041281	9.942	ppbv	100
76) 1,4-Dichlorobenzene	16.468	146	1969146	9.811	ppbv	99
77) 1,2-Dichlorobenzene	17.140	146	1947945	9.643	ppbv	99
78) Hexachloro-1,3-Butadiene	22.628	225	1380087	9.004	ppbv	99
79) Naphthalene	21.378	128	2862472	12.206	ppbv	98
80) Naphthalene,2-methyl-	24.374	142	788487	11.683	ppbv	95
81) 1,2,4-Trichlorobenzene	21.136	180	1531360	9.921	ppbv	100

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

