

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080923\
 Data File : VL040626.D
 Acq On : 10 Aug 2023 9:17
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/10/2023
 Supervised By : Mahesh Dadoda 08/10/2023

Quant Time: Aug 10 10:26:05 2023

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 10 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	5.198	49	962232	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2649624	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2506044	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.789 95 1894460 9.552 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 95.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.722	85	1824272	9.478	ppbv	98
3) Chlorodifluoromethane	2.668	51	1685011	11.048	ppbv	98
4) Chloromethane	2.806	50	698370	11.559	ppbv	97
5) Vinyl Chloride	2.915	62	748662	11.800	ppbv	96
6) Bromomethane	3.115	94	287238	10.726	ppbv	98
7) Chloroethane	3.192	64	259763	11.670	ppbv	99
8) Dichlorotetrafluoroethane	2.851	85	1724174	10.888	ppbv	100
9) Propene	2.687	41	597280	11.439	ppbv	100
10) Heptane	7.590	43	1456453	12.632	ppbv	99
11) Trichlorofluoromethane	3.558	101	1639856	10.559	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.066	101	1208536	11.049	ppbv	97
13) Ethanol	3.237	45	137495	12.103	ppbv	99
14) Bromoethene	3.362	108	531833	11.308	ppbv	99
15) Acetone	3.465	43	1241622	11.210	ppbv	99
16) 1,3-Butadiene	2.980	39	679166	12.154	ppbv	99
17) tert-Butyl alcohol	3.877	59	1503207	13.121	ppbv	99
18) 1,1-Dichloroethene	3.880	96	561587	11.168	ppbv	98
19) Isopropyl Alcohol	3.571	45	884679	13.913	ppbv #	2
20) Methylene Chloride	3.931	84	506135	10.743	ppbv	99
21) Allyl Chloride	3.996	41	737685	11.663	ppbv	99
22) trans-1,2-Dichloroethene	4.446	96	563609	11.360	ppbv	99
23) Vinyl Acetate	4.626	43	1374320	13.024	ppbv	98
24) 1,1-Dichloroethane	4.565	63	1197059	11.176	ppbv	99
25) Ethyl Acetate	5.208	43	2517312	11.938	ppbv	100
26) Hexane	5.217	57	1190565	12.153	ppbv	96
27) Carbon Disulfide	4.124	76	1385185	12.021	ppbv	98
28) Methyl tert-Butyl Ether	4.590	73	920327	11.670	ppbv	98
29) Chloroform	5.278	83	1730027	10.647	ppbv	98
30) Cyclohexane	6.610	84	980521	12.029	ppbv	99
31) cis-1,2-Dichloroethene	5.082	61	1135553	11.727	ppbv	99
32) 1,1,1-Trichloroethane	6.008	97	1701551	10.703	ppbv	99
34) 2-Butanone	4.787	43	1472006	11.243	ppbv	99
35) Carbon Tetrachloride	6.504	117	1697748	10.647	ppbv	97
36) Benzene	6.378	78	2467037	11.572	ppbv	100
37) 1,2-Dichloroethane	5.812	62	1307380	10.424	ppbv	100
38) Trichloroethene	7.301	130	922950	11.445	ppbv	100
39) 1,2-Dichloropropane	7.082	63	937763	11.426	ppbv	97
40) 1,4-Dioxane	7.298	88	312525	12.175	ppbv #	28
41) Tetrahydrofuran	5.561	42	942118	12.331	ppbv	98
42) Bromodichloromethane	7.259	83	1864726	10.690	ppbv	100
43) Methyl Methacrylate	7.484	69	981752	12.303	ppbv	99
44) 2,2,4-Trimethylpentane	7.336	57	4008111	11.685	ppbv	100
45) t-1,3-Dichloropropene	8.719	75	644821	12.597	ppbv	98

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 10 12:54:26 2023

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

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.153	75	786587	11.977	ppbv	95
47) 1,1,2-Trichloroethane	8.912	97	984789	10.876	ppbv	97
48) Dibromochloromethane	9.722	129	1598032	11.414	ppbv	100
49) Bromoform	12.420	173	1313425	11.833	ppbv	100
50) 4-Methyl-2-Pentanone	8.192	43	2287022	12.022	ppbv	99
51) 2-Hexanone	9.561	43	1637823	12.175	ppbv #	98
52) Tetrachloroethene	10.629	164	841615	12.190	ppbv	98
53) Toluene	9.230	91	2787091	12.035	ppbv	99
54) 1,2-Dibromoethane	10.018	107	1259002	11.186	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.519	131	1188835	10.593	ppbv	99
57) Chlorobenzene	11.539	112	2124100	10.868	ppbv	98
58) Ethyl Benzene	12.101	91	3714430	11.811	ppbv	98
59) m/p-Xylene	12.388	91	6217584m	22.151	ppbv	
60) o-Xylene	13.072	91	2967539	11.098	ppbv	99
61) Styrene	12.912	104	1570794	12.735	ppbv	99
62) Isopropylbenzene	14.043	105	4354333	10.865	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.060	83	2067508	11.041	ppbv	100
64) n-propylbenzene	14.931	120	1154745	11.136	ppbv	99
65) tert-Butylbenzene	16.104	119	3781059	10.656	ppbv	100
66) Benzyl Chloride	16.342	91	322646	12.854	ppbv	97
67) sec-Butylbenzene	16.648	105	5418158	10.393	ppbv	100
69) p-Isopropyltoluene	17.005	119	4513682	10.477	ppbv	99
70) n-Butylbenzene	17.899	91	4858728	10.113	ppbv	99
71) 2-Chlorotoluene	14.815	91	3395360	10.993	ppbv	100
72) 4-Ethyltoluene	15.204	105	3523121	11.240	ppbv	100
73) 1,3,5-Trimethylbenzene	15.362	105	3048914	11.035	ppbv	99
74) 1,2,4-Trimethylbenzene	16.120	105	3331147	10.341	ppbv	95
75) 1,3-Dichlorobenzene	16.342	146	2004413	10.263	ppbv	99
76) 1,4-Dichlorobenzene	16.487	146	1957242	10.220	ppbv	99
77) 1,2-Dichlorobenzene	17.153	146	1917121	10.266	ppbv	99
78) Hexachloro-1,3-Butadiene	22.648	225	1395147m	7.955	ppbv	
79) Naphthalene	21.397	128	2903642	10.653	ppbv	99
80) Naphthalene,2-methyl-	24.384	142	1005716	8.949	ppbv	97
81) 1,2,4-Trichlorobenzene	21.152	180	1679750	8.943	ppbv	100

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

