

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111723\
 Data File : VL040888.D
 Acq On : 17 Nov 2023 9:58
 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 11/20/2023
 Supervised By : Mahesh Dadoda 11/21/2023

Quant Time: Nov 20 03:50:45 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

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

QLast Update : Mon Nov 20 03:50:24 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	977278	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.665	114	2368371	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2373415m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.770 95 1815138 9.768 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.774	85	1904193	9.611	ppbv	99
3) Chlorodifluoromethane	2.719	51	1532852	9.824	ppbv	99
4) Chloromethane	2.854	50	552374	9.845	ppbv	99
5) Vinyl Chloride	2.961	62	582356	10.436	ppbv	99
6) Bromomethane	3.157	94	210582	9.886	ppbv	95
7) Chloroethane	3.234	64	194935	10.088	ppbv	96
8) Dichlorotetrafluoroethane	2.899	85	1406991	9.836	ppbv	98
9) Propene	2.739	41	515569	9.805	ppbv	99
10) Heptane	7.587	43	1285789	9.939	ppbv	99
11) Trichlorofluoromethane	3.594	101	1494730	9.819	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.096	101	1067123	9.868	ppbv	97
13) Ethanol	3.279	45	93659	9.173	ppbv #	100
14) Bromoethene	3.401	108	446477	10.264	ppbv	99
15) Acetone	3.501	43	1000900	9.616	ppbv	99
16) 1,3-Butadiene	3.025	39	565146	10.732	ppbv	99
17) tert-Butyl alcohol	3.909	59	900685	10.119	ppbv	100
18) 1,1-Dichloroethene	3.912	96	454130	9.421	ppbv	99
19) Isopropyl Alcohol	3.610	45	654997	10.457	ppbv #	99
20) Methylene Chloride	3.964	84	494658	11.516	ppbv	98
21) Allyl Chloride	4.025	41	686227	10.302	ppbv	100
22) trans-1,2-Dichloroethene	4.468	96	583160	10.660	ppbv	98
23) Vinyl Acetate	4.649	43	1468030	10.923	ppbv	99
24) 1,1-Dichloroethane	4.587	63	1238457	10.338	ppbv	97
25) Ethyl Acetate	5.221	43	2228459	10.340	ppbv	100
26) Hexane	5.231	57	981091	10.286	ppbv	100
27) Carbon Disulfide	4.153	76	1222673	10.109	ppbv	99
28) Methyl tert-Butyl Ether	4.610	73	894592	10.371	ppbv	100
29) Chloroform	5.295	83	1588905	9.829	ppbv	99
30) Cyclohexane	6.613	84	785593	9.574	ppbv	96
31) cis-1,2-Dichloroethene	5.099	61	985203	10.438	ppbv	98
32) 1,1,1-Trichloroethane	6.018	97	1600361	10.611	ppbv	100
34) 2-Butanone	4.806	43	1385888	11.486	ppbv	98
35) Carbon Tetrachloride	6.507	117	1684134	11.590	ppbv	99
36) Benzene	6.385	78	1981621	10.309	ppbv	100
37) 1,2-Dichloroethane	5.822	62	1250451	11.030	ppbv	99
38) Trichloroethene	7.298	130	745981	9.984	ppbv	97
39) 1,2-Dichloropropane	7.083	63	782883	10.272	ppbv	100
40) 1,4-Dioxane	7.292	88	312804	10.344	ppbv #	97
41) Tetrahydrofuran	5.575	42	836674	11.263	ppbv	98
42) Bromodichloromethane	7.259	83	1796951	11.076	ppbv	99
43) Methyl Methacrylate	7.478	69	832541	11.366	ppbv	99
44) 2,2,4-Trimethylpentane	7.333	57	3319596	10.397	ppbv	99
45) t-1,3-Dichloropropene	8.709	75	550938	12.799	ppbv	95

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

QLast Update : Mon Nov 20 03:50:24 2023

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.147	75	664220	11.901	ppbv	97
47) 1,1,2-Trichloroethane	8.899	97	828444	10.374	ppbv	97
48) Dibromochloromethane	9.713	129	1473583	11.121	ppbv	99
49) Bromoform	12.404	173	1183966	11.879	ppbv	100
50) 4-Methyl-2-Pentanone	8.185	43	2134781	11.433	ppbv	99
51) 2-Hexanone	9.549	43	1562717	11.873	ppbv	98
52) Tetrachloroethene	10.616	164	668336	10.325	ppbv	98
53) Toluene	9.224	91	2242902	10.604	ppbv	99
54) 1,2-Dibromoethane	10.008	107	1142531	11.117	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.507	131	1046765	10.305	ppbv	97
57) Chlorobenzene	11.523	112	1717750	9.764	ppbv	98
58) Ethyl Benzene	12.086	91	3055704	9.868	ppbv	99
59) m/p-Xylene	12.368	91	5237891m	19.863	ppbv	
60) o-Xylene	13.053	91	2498865	9.954	ppbv	97
61) Styrene	12.893	104	1268245	10.476	ppbv	99
62) Isopropylbenzene	14.024	105	3595958	9.695	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.040	83	1795826	10.093	ppbv	100
64) n-propylbenzene	14.909	120	919406	9.891	ppbv	93
65) tert-Butylbenzene	16.082	119	3105567	9.931	ppbv	98
66) Benzyl Chloride	16.327	91	134563m	11.677	ppbv	
67) sec-Butylbenzene	16.629	105	4412020	9.876	ppbv	99
69) p-Isopropyltoluene	16.986	119	3522914	9.890	ppbv	99
70) n-Butylbenzene	17.880	91	3764447	10.008	ppbv	100
71) 2-Chlorotoluene	14.796	91	2811598	9.944	ppbv	100
72) 4-Ethyltoluene	15.185	105	2829454	10.253	ppbv	97
73) 1,3,5-Trimethylbenzene	15.343	105	2439340	9.995	ppbv	96
74) 1,2,4-Trimethylbenzene	16.101	105	2668102	9.796	ppbv	96
75) 1,3-Dichlorobenzene	16.323	146	1501039	9.981	ppbv	99
76) 1,4-Dichlorobenzene	16.465	146	1462102	10.155	ppbv	100
77) 1,2-Dichlorobenzene	17.134	146	1437741	9.832	ppbv	99
78) Hexachloro-1,3-Butadiene	22.625	225	809104	8.837	ppbv	100
79) Naphthalene	21.378	128	1741003	12.437	ppbv	99
80) Naphthalene,2-methyl-	24.374	142	264218	10.692	ppbv #	84
81) 1,2,4-Trichlorobenzene	21.127	180	881600	10.359	ppbv	98

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

