

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040865.D
 Acq On : 15 Nov 2023 10:52
 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 15 11:31:06 2023

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

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

QLast Update : Mon Nov 13 15:42:46 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1048557	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.639	114	2712589	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2527515	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.741 95 2008943 10.152 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.751	85	1972610	9.280	ppbv	100
3) Chlorodifluoromethane	2.697	51	1577502	9.423	ppbv	99
4) Chloromethane	2.835	50	571170	9.488	ppbv	99
5) Vinyl Chloride	2.938	62	611498	10.213	ppbv	98
6) Bromomethane	3.134	94	215044	9.409	ppbv	100
7) Chloroethane	3.211	64	209472	10.104	ppbv	98
8) Dichlorotetrafluoroethane	2.877	85	1446187	9.422	ppbv	100
9) Propene	2.716	41	548500	9.722	ppbv	100
10) Heptane	7.562	43	1368129	9.857	ppbv	99
11) Trichlorofluoromethane	3.571	101	1547410	9.474	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.070	101	1106727	9.538	ppbv	99
13) Ethanol	3.253	45	85062	7.764	ppbv #	100
14) Bromoethene	3.378	108	452516	9.696	ppbv	97
15) Acetone	3.478	43	1075484	9.630	ppbv	100
16) 1,3-Butadiene	3.002	39	588114	10.409	ppbv	100
17) tert-Butyl alcohol	3.883	59	867072	9.079	ppbv	98
18) 1,1-Dichloroethene	3.886	96	493423	9.541	ppbv	96
19) Isopropyl Alcohol	3.584	45	620152	9.227	ppbv #	98
20) Methylene Chloride	3.941	84	396144	8.596	ppbv	92
21) Allyl Chloride	4.002	41	700655	9.804	ppbv	99
22) trans-1,2-Dichloroethene	4.446	96	626086	10.667	ppbv	94
23) Vinyl Acetate	4.626	43	1569424	10.883	ppbv	100
24) 1,1-Dichloroethane	4.562	63	1313513	10.219	ppbv	99
25) Ethyl Acetate	5.195	43	2292436	9.914	ppbv	100
26) Hexane	5.205	57	984930	9.624	ppbv	99
27) Carbon Disulfide	4.128	76	1239961	9.555	ppbv	97
28) Methyl tert-Butyl Ether	4.584	73	944815	10.208	ppbv	99
29) Chloroform	5.269	83	1644087	9.479	ppbv	97
30) Cyclohexane	6.584	84	860539	9.774	ppbv	99
31) cis-1,2-Dichloroethene	5.073	61	1050092	10.369	ppbv	96
32) 1,1,1-Trichloroethane	5.992	97	1646086	10.172	ppbv	99
34) 2-Butanone	4.780	43	1426197	10.321	ppbv	99
35) Carbon Tetrachloride	6.478	117	1737709	10.441	ppbv	99
36) Benzene	6.356	78	2137763	9.710	ppbv	98
37) 1,2-Dichloroethane	5.796	62	1264604	9.739	ppbv	100
38) Trichloroethene	7.272	130	818432	9.564	ppbv	98
39) 1,2-Dichloropropane	7.053	63	843379	9.662	ppbv	96
40) 1,4-Dioxane	7.269	88	309780	8.944	ppbv #	56
41) Tetrahydrofuran	5.546	42	891531	10.479	ppbv	99
42) Bromodichloromethane	7.230	83	1827024	9.832	ppbv	98
43) Methyl Methacrylate	7.455	69	885887	10.560	ppbv	99
44) 2,2,4-Trimethylpentane	7.311	57	3527767	9.647	ppbv	99
45) t-1,3-Dichloropropene	8.684	75	576491	11.694	ppbv	99

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.121	75	698259	10.923	ppbv	96
47) 1,1,2-Trichloroethane	8.873	97	884125	9.666	ppbv	98
48) Dibromochloromethane	9.684	129	1579114	10.405	ppbv	99
49) Bromoform	12.375	173	1238835	10.852	ppbv	100
50) 4-Methyl-2-Pentanone	8.160	43	2208918	10.329	ppbv	100
51) 2-Hexanone	9.523	43	1630539	10.816	ppbv	100
52) Tetrachloroethene	10.587	164	745056	10.050	ppbv	96
53) Toluene	9.195	91	2445228	10.093	ppbv	100
54) 1,2-Dibromoethane	9.979	107	1228210	10.434	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.481	131	1108432	10.247	ppbv	97
57) Chlorobenzene	11.497	112	1887758	10.077	ppbv	99
58) Ethyl Benzene	12.060	91	3320358	10.068	ppbv	100
59) m/p-Xylene	12.339	91	5533104m	19.703	ppbv	
60) o-Xylene	13.024	91	2626187	9.823	ppbv	99
61) Styrene	12.867	104	1390822	10.788	ppbv	99
62) Isopropylbenzene	13.999	105	3890737	9.851	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.015	83	1870475	9.872	ppbv	100
64) n-propylbenzene	14.886	120	1012520	10.228	ppbv	98
65) tert-Butylbenzene	16.056	119	3359096	10.086	ppbv	99
66) Benzyl Chloride	16.288	91	139040m	11.330	ppbv	
67) sec-Butylbenzene	16.600	105	4730850	9.944	ppbv	100
69) p-Isopropyltoluene	16.960	119	3859599	10.174	ppbv	99
70) n-Butylbenzene	17.854	91	3992835	9.968	ppbv	99
71) 2-Chlorotoluene	14.767	91	2990337	9.932	ppbv	98
72) 4-Ethyltoluene	15.159	105	3034691	10.326	ppbv	99
73) 1,3,5-Trimethylbenzene	15.320	105	2633825	10.134	ppbv	100
74) 1,2,4-Trimethylbenzene	16.072	105	2837325	9.782	ppbv	98
75) 1,3-Dichlorobenzene	16.297	146	1634113	10.203	ppbv	99
76) 1,4-Dichlorobenzene	16.439	146	1595530	10.406	ppbv	99
77) 1,2-Dichlorobenzene	17.108	146	1540227	9.891	ppbv	99
78) Hexachloro-1,3-Butadiene	22.593	225	871224	8.935	ppbv	99
79) Naphthalene	21.346	128	1875646	12.582	ppbv	98
80) Naphthalene,2-methyl-	24.345	142	312644	11.880	ppbv	95
81) 1,2,4-Trichlorobenzene	21.104	180	977910	10.790	ppbv	100

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

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