

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041932.D
 Acq On : 20 Jan 2025 22:30
 Operator : SY/MD
 Sample : MDL 0.4
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL 0.4

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/21/2025
 Supervised By : Mahesh Dadoda 01/21/2025

Quant Time: Jan 21 05:07:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	134188	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.939	114	380797	10.000	ppbv	-0.04
55) Chlorobenzene-d5	8.865	117	326374	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 256221 9.967 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	8862	0.485	ppbv	98
3) Chlorodifluoromethane	1.470	51	9717	0.507	ppbv	98
4) Chloromethane	1.528	50	3449	0.502	ppbv	93
5) Vinyl Chloride	1.573	62	3398	0.488	ppbv #	86
6) Bromomethane	1.661	94	1562	0.471	ppbv	98
7) Chloroethane	1.696	64	1405	0.519	ppbv #	56
8) Dichlorotetrafluoroethane	1.547	85	7242	0.453	ppbv	97
9) Propene	1.479	41	3909	0.496	ppbv	99
10) Heptane	4.972	43	7809m	0.370	ppbv	
11) Trichlorofluoromethane	1.868	101	7937	0.417	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.130	101	6839	0.459	ppbv	98
13) Ethanol	1.709	45	297m	0.514	ppbv	
14) Bromoethene	1.777	108	2115	0.388	ppbv #	84
15) Acetone	1.829	43	9338	0.579	ppbv	97
16) 1,3-Butadiene	1.602	39	3573	0.494	ppbv	97
17) tert-Butyl alcohol	2.036	59	8693	0.438	ppbv	98
18) 1,1-Dichloroethene	2.023	96	3174	0.473	ppbv	87
19) Isopropyl Alcohol	1.881	45	4426	0.463	ppbv #	32
20) Methylene Chloride	2.052	84	3162	0.496	ppbv	87
21) Allyl Chloride	2.088	41	4804	0.430	ppbv #	86
22) trans-1,2-Dichloroethene	2.330	96	3521	0.465	ppbv	96
23) Vinyl Acetate	2.457	43	2648	0.331	ppbv #	96
24) 1,1-Dichloroethane	2.398	63	6657	0.454	ppbv	98
25) Ethyl Acetate	2.829	43	16833m	0.387	ppbv	
26) Hexane	2.816	57	6953	0.405	ppbv	96
27) Carbon Disulfide	2.143	76	6481	0.381	ppbv #	23
28) Methyl tert-Butyl Ether	2.437	73	4656	0.354	ppbv	97
29) Chloroform	2.839	83	12601	0.464	ppbv	99
30) Cyclohexane	3.839	84	5443	0.365	ppbv	91
31) cis-1,2-Dichloroethene	2.709	61	7537	0.416	ppbv	97
32) 1,1,1-Trichloroethane	3.357	97	11152	0.429	ppbv	95
34) 2-Butanone	2.554	43	11470	0.474	ppbv	97
35) Carbon Tetrachloride	3.748	117	10508	0.439	ppbv	92
36) Benzene	3.638	78	16347m	0.468	ppbv	
37) 1,2-Dichloroethane	3.201	62	9662	0.493	ppbv	99
38) Trichloroethene	4.528	130	6086	0.439	ppbv	99
39) 1,2-Dichloropropane	4.298	63	6124m	0.500	ppbv	
40) 1,4-Dioxane	4.590	88	2600m	0.420	ppbv	
41) Tetrahydrofuran	3.052	42	5117m	0.389	ppbv	
42) Bromodichloromethane	4.470	83	10924	0.415	ppbv #	89
43) Methyl Methacrylate	4.868	69	4596m	0.354	ppbv	
44) 2,2,4-Trimethylpentane	4.619	57	23065	0.408	ppbv	96
45) t-1,3-Dichloropropene	6.389	75	3227m	0.266	ppbv	

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.574	75	5304m	0.333	ppbv	
47) 1,1,2-Trichloroethane	6.561	97	6032m	0.465	ppbv	
48) Dibromochloromethane	7.363	129	7713m	0.385	ppbv	
49) Bromoform	9.471	173	5509	0.335	ppbv	96
50) 4-Methyl-2-Pentanone	5.752	43	12708m	0.384	ppbv	
51) 2-Hexanone	7.435	43	8881m	0.350	ppbv	
52) Tetrachloroethene	8.205	164	5299m	0.438	ppbv	
53) Toluene	6.914	91	12437m	0.327	ppbv	
54) 1,2-Dibromoethane	7.635	107	7957	0.446	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.911	131	6670	0.410	ppbv #	1
57) Chlorobenzene	8.904	112	14959	0.497	ppbv #	78
58) Ethyl Benzene	9.341	91	16531	0.324	ppbv	99
59) m/p-Xylene	9.535	91	26243m	0.642	ppbv	
60) o-Xylene	9.953	91	13421	0.331	ppbv	96
61) Styrene	9.852	104	5382	0.296	ppbv	97
62) Isopropylbenzene	10.526	105	22844	0.364	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.950	83	13187	0.509	ppbv	96
64) n-propylbenzene	10.976	120	4867	0.307	ppbv	82
65) tert-Butylbenzene	11.523	119	18954	0.331	ppbv	98
66) Benzyl Chloride	11.603	91	1175m	0.332	ppbv	
67) sec-Butylbenzene	11.759	105	26136	0.332	ppbv	100
69) p-Isopropyltoluene	11.914	119	20880	0.322	ppbv	98
70) n-Butylbenzene	12.273	91	21088	0.328	ppbv	95
71) 2-Chlorotoluene	10.888	91	16804	0.362	ppbv	93
72) 4-Ethyltoluene	11.111	105	15064	0.310	ppbv #	96
73) 1,3,5-Trimethylbenzene	11.192	105	14032	0.327	ppbv	94
74) 1,2,4-Trimethylbenzene	11.523	105	16112	0.347	ppbv #	89
75) 1,3-Dichlorobenzene	11.597	146	12601	0.458	ppbv	95
76) 1,4-Dichlorobenzene	11.662	146	11355	0.422	ppbv	96
77) 1,2-Dichlorobenzene	11.937	146	12248	0.449	ppbv	94
78) Hexachloro-1,3-Butadiene	13.872	225	9854	0.440	ppbv	97
79) Naphthalene	13.503	128	14149	0.303	ppbv #	91
80) Naphthalene,2-methyl-	14.448	142	4410	0.199	ppbv	97
81) 1,2,4-Trichlorobenzene	13.432	180	7637	0.335	ppbv	96

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

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