

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041935.D
 Acq On : 21 Jan 2025 00:01
 Operator : SY/MD
 Sample : MDL 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL 0.1

Manual Integrations
 APPROVED

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

Quant Time: Jan 21 05:09:27 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	132631	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.942	114	362883	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.868	117	312601	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 247307 10.044 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	1861	0.103	ppbv	100
3) Chlorodifluoromethane	1.470	51	2317	0.122	ppbv	94
4) Chloromethane	1.528	50	1003	0.148	ppbv #	61
5) Vinyl Chloride	1.573	62	651	0.095	ppbv #	85
6) Bromomethane	1.664	94	515	0.157	ppbv #	55
7) Chloroethane	1.699	64	317	0.118	ppbv #	88
8) Dichlorotetrafluoroethane	1.550	85	1691	0.107	ppbv #	82
9) Propene	1.479	41	1218	0.156	ppbv	99
10) Heptane	4.959	43	1556m	0.075	ppbv	
11) Trichlorofluoromethane	1.871	101	2055	0.109	ppbv #	82
12) 1,1,2-Trichlorotrifluo...	2.130	101	1888	0.128	ppbv	86
13) Ethanol	1.725	45	164m	0.287	ppbv	
14) Bromoethene	1.777	108	526	0.098	ppbv #	53
15) Acetone	1.832	43	2865	0.180	ppbv	98
16) 1,3-Butadiene	1.602	39	1026	0.143	ppbv #	75
17) tert-Butyl alcohol	2.036	59	1953	0.100	ppbv #	69
18) 1,1-Dichloroethene	2.029	96	870	0.131	ppbv	93
19) Isopropyl Alcohol	1.884	45	1946m	0.206	ppbv	
20) Methylene Chloride	2.052	84	1379	0.219	ppbv #	69
21) Allyl Chloride	2.088	41	1209	0.110	ppbv #	57
22) trans-1,2-Dichloroethene	2.334	96	912m	0.122	ppbv	
23) Vinyl Acetate	2.453	43	1256	0.159	ppbv #	40
24) 1,1-Dichloroethane	2.398	63	1731	0.119	ppbv #	87
25) Ethyl Acetate	2.832	43	4090m	0.095	ppbv	
26) Hexane	2.816	57	1475	0.087	ppbv #	83
27) Carbon Disulfide	2.146	76	1704	0.101	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	1133	0.087	ppbv #	85
29) Chloroform	2.835	83	3398m	0.127	ppbv	
30) Cyclohexane	3.848	84	1381m	0.094	ppbv	
31) cis-1,2-Dichloroethene	2.716	61	1648	0.092	ppbv #	84
32) 1,1,1-Trichloroethane	3.356	97	2489	0.097	ppbv #	88
34) 2-Butanone	2.557	43	2764	0.120	ppbv	99
35) Carbon Tetrachloride	3.748	117	2595m	0.114	ppbv	
36) Benzene	3.645	78	3481m	0.105	ppbv	
37) 1,2-Dichloroethane	3.208	62	2469	0.132	ppbv	99
38) Trichloroethene	4.528	130	1398	0.106	ppbv #	81
39) 1,2-Dichloropropane	4.298	63	1468m	0.126	ppbv	
40) 1,4-Dioxane	4.612	88	579m	0.098	ppbv	
41) Tetrahydrofuran	3.065	42	1539m	0.123	ppbv	
42) Bromodichloromethane	4.467	83	3356m	0.134	ppbv	
43) Methyl Methacrylate	4.865	69	875	0.071	ppbv #	72
44) 2,2,4-Trimethylpentane	4.616	57	4938m	0.092	ppbv	
45) t-1,3-Dichloropropene	6.389	75	802m	0.069	ppbv	

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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	5.587	75	1232m	0.081	ppbv	
47) 1,1,2-Trichloroethane	6.570	97	1561m	0.126	ppbv	
48) Dibromochloromethane	7.367	129	1680m	0.088	ppbv	
49) Bromoform	9.467	173	1265m	0.081	ppbv	
50) 4-Methyl-2-Pentanone	5.758	43	2560m	0.081	ppbv	
51) 2-Hexanone	7.444	43	1858m	0.077	ppbv	
52) Tetrachloroethene	8.208	164	1290	0.112	ppbv #	69
53) Toluene	6.907	91	2654m	0.073	ppbv	
54) 1,2-Dibromoethane	7.639	107	1936m	0.114	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.904	131	1634m	0.105	ppbv	
57) Chlorobenzene	8.904	112	3636	0.126	ppbv #	76
58) Ethyl Benzene	9.338	91	3684m	0.075	ppbv	
59) m/p-Xylene	9.529	91	4933m	0.126	ppbv	
60) o-Xylene	9.953	91	2649m	0.068	ppbv	
61) Styrene	9.852	104	1283m	0.074	ppbv	
62) Isopropylbenzene	10.529	105	4756	0.079	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.946	83	3174m	0.128	ppbv	
64) n-propylbenzene	10.982	120	908m	0.060	ppbv	
65) tert-Butylbenzene	11.523	119	3024	0.055	ppbv #	85
66) Benzyl Chloride	11.626	91	163m	0.048	ppbv	
67) sec-Butylbenzene	11.759	105	4617	0.061	ppbv	97
69) p-Isopropyltoluene	11.917	119	3650	0.059	ppbv	92
70) n-Butylbenzene	12.277	91	3648	0.059	ppbv #	89
71) 2-Chlorotoluene	10.888	91	3548m	0.080	ppbv	
72) 4-Ethyltoluene	11.111	105	3001	0.065	ppbv	96
73) 1,3,5-Trimethylbenzene	11.192	105	2621	0.064	ppbv #	80
74) 1,2,4-Trimethylbenzene	11.523	105	2460	0.055	ppbv #	80
75) 1,3-Dichlorobenzene	11.597	146	2186	0.083	ppbv	87
76) 1,4-Dichlorobenzene	11.665	146	2280	0.088	ppbv	99
77) 1,2-Dichlorobenzene	11.937	146	2618m	0.100	ppbv	
78) Hexachloro-1,3-Butadiene	13.879	225	2388	0.111	ppbv	91
79) Naphthalene	13.507	128	2462	0.055	ppbv #	88
81) 1,2,4-Trichlorobenzene	13.432	180	1482	0.068	ppbv	90

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

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