

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042501.D
 Acq On : 06 May 2025 17:36
 Operator : SY/MD
 Sample : MDL1 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL1 0.40

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/07/2025
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 07 01:44:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	63755	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	169190	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	142966	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 136275 10.281 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	6202	0.588	ppbv	98
3) Chlorodifluoromethane	1.479	51	5969	0.535	ppbv	96
4) Chloromethane	1.534	50	2663	0.604	ppbv	94
5) Vinyl Chloride	1.583	62	1999	0.450	ppbv #	81
6) Bromomethane	1.670	94	1468	0.700	ppbv	100
7) Chloroethane	1.706	64	1025	0.625	ppbv #	86
8) Dichlorotetrafluoroethane	1.557	85	5338	0.614	ppbv	100
9) Propene	1.486	41	1278m	0.350	ppbv	
10) Heptane	4.988	43	3274m	0.346	ppbv	
11) Trichlorofluoromethane	1.881	101	5626m	0.578	ppbv	
12) 1,1,2-Trichlorotrifluo...	2.143	101	4401	0.566	ppbv	96
13) Ethanol	1.725	45	655	0.885	ppbv	99
14) Bromoethene	1.784	108	1333	0.464	ppbv #	84
15) Acetone	1.839	43	8217	0.706	ppbv	96
16) 1,3-Butadiene	1.612	39	2927	0.570	ppbv	98
17) tert-Butyl alcohol	2.046	59	4951	0.483	ppbv #	85
18) 1,1-Dichloroethene	2.036	96	1866	0.514	ppbv #	71
19) Isopropyl Alcohol	1.890	45	3443	0.535	ppbv #	85
20) Methylene Chloride	2.065	84	2420	0.692	ppbv	93
21) Allyl Chloride	2.101	41	4119	0.550	ppbv #	80
22) trans-1,2-Dichloroethene	2.344	96	2714	0.640	ppbv	83
23) Vinyl Acetate	2.467	43	4599	0.414	ppbv #	75
24) 1,1-Dichloroethane	2.415	63	4574	0.529	ppbv #	93
25) Ethyl Acetate	2.852	43	6043	0.324	ppbv #	90
26) Hexane	2.832	57	2471	0.304	ppbv #	59
27) Carbon Disulfide	2.153	76	4925	0.520	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	2200	0.451	ppbv #	76
29) Chloroform	2.858	83	7970	0.524	ppbv	89
30) Cyclohexane	3.855	84	2607m	0.384	ppbv	
31) cis-1,2-Dichloroethene	2.729	61	3354m	0.354	ppbv	
32) 1,1,1-Trichloroethane	3.376	97	7719	0.468	ppbv	98
34) 2-Butanone	2.564	43	4877	0.399	ppbv #	90
35) Carbon Tetrachloride	3.771	117	8394m	0.546	ppbv	
36) Benzene	3.664	78	6282	0.393	ppbv #	90
37) 1,2-Dichloroethane	3.224	62	5997	0.487	ppbv	100
38) Trichloroethene	4.564	130	2873m	0.472	ppbv	
39) 1,2-Dichloropropane	4.334	63	3207m	0.537	ppbv	
40) 1,4-Dioxane	4.612	88	916m	0.327	ppbv	
41) Tetrahydrofuran	3.072	42	2283m	0.393	ppbv	
42) Bromodichloromethane	4.493	83	7527m	0.501	ppbv	
43) Methyl Methacrylate	4.891	69	2157m	0.362	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	9388m	0.363	ppbv	
45) t-1,3-Dichloropropene	6.431	75	2391m	0.306	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	2755m	0.297	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	3037m	0.463	ppbv	
48) Dibromochloromethane	7.396	129	4973m	0.449	ppbv	
49) Bromoform	9.497	173	3776	0.407	ppbv #	79
50) 4-Methyl-2-Pentanone	5.787	43	5427m	0.351	ppbv	
51) 2-Hexanone	7.451	43	3905m	0.316	ppbv	
52) Tetrachloroethene	8.231	164	2313m	0.381	ppbv	
53) Toluene	6.949	91	5668m	0.335	ppbv	
54) 1,2-Dibromoethane	7.668	107	3829m	0.382	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.943	131	4340m	0.514	ppbv	
57) Chlorobenzene	8.927	112	7029	0.489	ppbv	93
58) Ethyl Benzene	9.367	91	7420m	0.311	ppbv	
59) m/p-Xylene	9.539	91	12193m	0.609	ppbv	
60) o-Xylene	9.969	91	5844	0.291	ppbv	97
61) Styrene	9.882	104	2368	0.316	ppbv #	87
62) Isopropylbenzene	10.542	105	9948	0.344	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	6325	0.457	ppbv	98
64) n-propylbenzene	10.995	120	2048	0.290	ppbv	96
65) tert-Butylbenzene	11.542	119	7164	0.278	ppbv	96
66) Benzyl Chloride	11.620	91	1252m	0.420	ppbv	
67) sec-Butylbenzene	11.775	105	11638	0.317	ppbv	97
69) p-Isopropyltoluene	11.931	119	8103	0.262	ppbv #	93
70) n-Butylbenzene	12.290	91	8223	0.257	ppbv	97
71) 2-Chlorotoluene	10.908	91	6497	0.286	ppbv	90
72) 4-Ethyltoluene	11.131	105	6753	0.286	ppbv	98
73) 1,3,5-Trimethylbenzene	11.212	105	5785	0.278	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	6593	0.262	ppbv #	83
75) 1,3-Dichlorobenzene	11.617	146	5504	0.393	ppbv	91
76) 1,4-Dichlorobenzene	11.675	146	5351	0.404	ppbv	95
77) 1,2-Dichlorobenzene	11.956	146	6439	0.470	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	6569	0.480	ppbv	98
79) Naphthalene	13.523	128	4381	0.207	ppbv #	90
80) Naphthalene,2-methyl-	14.468	142	1553	0.099	ppbv	93
81) 1,2,4-Trichlorobenzene	13.449	180	2371	0.210	ppbv #	86

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

