

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042496.D
 Acq On : 06 May 2025 14:57
 Operator : SY/MD
 Sample : MDL2 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL2 0.45

Manual Integrations
 APPROVED

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

Quant Time: May 07 01:40:48 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	2.790	49	66102	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	176315	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	147893	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 144260 10.521 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	6620	0.605	ppbv	98
3) Chlorodifluoromethane	1.476	51	6638	0.574	ppbv	97
4) Chloromethane	1.534	50	2845	0.622	ppbv #	86
5) Vinyl Chloride	1.583	62	2412	0.524	ppbv	90
6) Bromomethane	1.670	94	1356	0.623	ppbv	95
7) Chloroethane	1.706	64	1144	0.673	ppbv	91
8) Dichlorotetrafluoroethane	1.557	85	5795	0.643	ppbv	94
9) Propene	1.486	41	1646	0.435	ppbv	94
10) Heptane	4.985	43	3248m	0.331	ppbv	
11) Trichlorofluoromethane	1.881	101	7042	0.698	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.140	101	4738	0.588	ppbv	86
13) Ethanol	1.725	45	534m	0.696	ppbv	
14) Bromoethene	1.784	108	2090	0.702	ppbv #	85
15) Acetone	1.839	43	8903	0.738	ppbv	98
16) 1,3-Butadiene	1.612	39	3568	0.670	ppbv	84
17) tert-Butyl alcohol	2.043	59	6121	0.576	ppbv #	83
18) 1,1-Dichloroethene	2.030	96	2547m	0.677	ppbv	
19) Isopropyl Alcohol	1.890	45	3938	0.590	ppbv #	94
20) Methylene Chloride	2.062	84	3246	0.895	ppbv #	76
21) Allyl Chloride	2.098	41	4182	0.539	ppbv	86
22) trans-1,2-Dichloroethene	2.344	96	2503	0.569	ppbv #	75
23) Vinyl Acetate	2.463	43	5435	0.472	ppbv #	81
24) 1,1-Dichloroethane	2.412	63	5265	0.587	ppbv #	94
25) Ethyl Acetate	2.845	43	8708	0.451	ppbv #	96
26) Hexane	2.829	57	3125	0.371	ppbv #	77
27) Carbon Disulfide	2.153	76	5933	0.604	ppbv #	32
28) Methyl tert-Butyl Ether	2.444	73	2804	0.554	ppbv #	69
29) Chloroform	2.855	83	9549	0.605	ppbv #	82
30) Cyclohexane	3.868	84	2310m	0.328	ppbv	
31) cis-1,2-Dichloroethene	2.725	61	4733	0.482	ppbv	93
32) 1,1,1-Trichloroethane	3.370	97	8464m	0.495	ppbv	
34) 2-Butanone	2.570	43	5739	0.450	ppbv	96
35) Carbon Tetrachloride	3.774	117	7720	0.482	ppbv #	86
36) Benzene	3.664	78	6693	0.402	ppbv	95
37) 1,2-Dichloroethane	3.224	62	6738	0.525	ppbv	98
38) Trichloroethene	4.557	130	3123m	0.492	ppbv	
39) 1,2-Dichloropropane	4.318	63	3391m	0.544	ppbv	
40) 1,4-Dioxane	4.616	88	1118m	0.383	ppbv	
41) Tetrahydrofuran	3.072	42	2500m	0.412	ppbv	
42) Bromodichloromethane	4.499	83	8700	0.555	ppbv #	89
43) Methyl Methacrylate	4.894	69	2152m	0.347	ppbv	
44) 2,2,4-Trimethylpentane	4.654	57	10314m	0.382	ppbv	
45) t-1,3-Dichloropropene	6.428	75	2716m	0.333	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	3798m	0.392	ppbv	
47) 1,1,2-Trichloroethane	6.600	97	3961m	0.580	ppbv	
48) Dibromochloromethane	7.399	129	6116m	0.530	ppbv	
49) Bromoform	9.487	173	4711m	0.487	ppbv	
50) 4-Methyl-2-Pentanone	5.797	43	6298m	0.390	ppbv	
51) 2-Hexanone	7.454	43	4647	0.360	ppbv #	96
52) Tetrachloroethene	8.237	164	2595m	0.410	ppbv	
53) Toluene	6.946	91	6594m	0.374	ppbv	
54) 1,2-Dibromoethane	7.668	107	4797	0.459	ppbv #	68
56) 1,1,1,2-Tetrachloroethane	8.933	131	5388	0.617	ppbv #	70
57) Chlorobenzene	8.927	112	7961	0.536	ppbv #	79
58) Ethyl Benzene	9.361	91	8636	0.349	ppbv	96
59) m/p-Xylene	9.558	91	13231m	0.639	ppbv	
60) o-Xylene	9.976	91	6798	0.328	ppbv	96
61) Styrene	9.882	104	2552m	0.330	ppbv	
62) Isopropylbenzene	10.548	105	11113	0.371	ppbv	94
63) 1,1,2,2-Tetrachloroethane	9.976	83	7773	0.543	ppbv	95
64) n-propylbenzene	10.995	120	2024	0.277	ppbv #	58
65) tert-Butylbenzene	11.536	119	8136	0.305	ppbv	91
66) Benzyl Chloride	11.620	91	1394	0.452	ppbv #	92
67) sec-Butylbenzene	11.772	105	12683	0.334	ppbv	96
69) p-Isopropyltoluene	11.930	119	10165	0.318	ppbv	97
70) n-Butylbenzene	12.290	91	10320	0.312	ppbv	94
71) 2-Chlorotoluene	10.904	91	8218	0.350	ppbv	90
72) 4-Ethyltoluene	11.131	105	8500	0.348	ppbv #	93
73) 1,3,5-Trimethylbenzene	11.205	105	7183	0.334	ppbv #	85
74) 1,2,4-Trimethylbenzene	11.542	105	8769	0.337	ppbv #	87
75) 1,3-Dichlorobenzene	11.613	146	7021	0.485	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	6291	0.459	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	7558	0.533	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	7741	0.547	ppbv	95
79) Naphthalene	13.516	128	5205	0.238	ppbv #	83
80) Naphthalene,2-methyl-	14.462	142	1562	0.096	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.445	180	3278	0.281	ppbv	90

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

