

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050725\
 Data File : VL042520.D
 Acq On : 07 May 2025 16:13
 Operator : SY/MD
 Sample : MDL3 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL3 0.40

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/08/2025
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 08 01:39:31 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	2.790	49	73701	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	184391	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	155897	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 145904 10.094 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	6215	0.510	ppbv	89
3) Chlorodifluoromethane	1.476	51	6176	0.479	ppbv	93
4) Chloromethane	1.535	50	2745	0.538	ppbv	91
5) Vinyl Chloride	1.580	62	2227	0.434	ppbv	100
6) Bromomethane	1.667	94	1434	0.591	ppbv #	69
7) Chloroethane	1.703	64	1058	0.558	ppbv	89
8) Dichlorotetrafluoroethane	1.554	85	4882	0.486	ppbv	98
9) Propene	1.483	41	1629	0.386	ppbv	93
10) Heptane	4.985	43	3458m	0.316	ppbv	
11) Trichlorofluoromethane	1.878	101	5930m	0.527	ppbv	
12) 1,1,2-Trichlorotrifluo...	2.140	101	4322	0.481	ppbv	98
13) Ethanol	1.722	45	656m	0.766	ppbv	
14) Bromoethene	1.781	108	1510	0.455	ppbv #	89
15) Acetone	1.836	43	7682	0.571	ppbv #	89
16) 1,3-Butadiene	1.609	39	3435	0.579	ppbv	95
17) tert-Butyl alcohol	2.043	59	5019	0.423	ppbv #	80
18) 1,1-Dichloroethene	2.036	96	2206m	0.526	ppbv	
19) Isopropyl Alcohol	1.887	45	3835	0.515	ppbv #	1
20) Methylene Chloride	2.062	84	2237	0.553	ppbv #	66
21) Allyl Chloride	2.095	41	3608	0.417	ppbv #	77
22) trans-1,2-Dichloroethene	2.344	96	2037m	0.416	ppbv	
23) Vinyl Acetate	2.464	43	5176	0.403	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	4717	0.472	ppbv	98
25) Ethyl Acetate	2.842	43	7439	0.345	ppbv #	96
26) Hexane	2.826	57	2946	0.314	ppbv #	80
27) Carbon Disulfide	2.153	76	5316	0.485	ppbv #	21
28) Methyl tert-Butyl Ether	2.447	73	2887	0.512	ppbv	98
29) Chloroform	2.849	83	8362	0.475	ppbv	99
30) Cyclohexane	3.862	84	2083m	0.265	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	3715	0.339	ppbv	90
32) 1,1,1-Trichloroethane	3.373	97	7718	0.405	ppbv	94
34) 2-Butanone	2.564	43	6111	0.458	ppbv	95
35) Carbon Tetrachloride	3.765	117	8820	0.527	ppbv #	81
36) Benzene	3.658	78	6473	0.372	ppbv	96
37) 1,2-Dichloroethane	3.218	62	6239m	0.465	ppbv	
38) Trichloroethene	4.558	130	3009m	0.453	ppbv	
39) 1,2-Dichloropropane	4.318	63	3458m	0.531	ppbv	
40) 1,4-Dioxane	4.632	88	1082m	0.355	ppbv	
41) Tetrahydrofuran	3.069	42	2194m	0.346	ppbv	
42) Bromodichloromethane	4.496	83	8092m	0.494	ppbv	
43) Methyl Methacrylate	4.897	69	2079m	0.320	ppbv	
44) 2,2,4-Trimethylpentane	4.655	57	10098m	0.358	ppbv	
45) t-1,3-Dichloropropene	6.432	75	3126m	0.367	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	3234m	0.319	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	3496m	0.489	ppbv	
48) Dibromochloromethane	7.396	129	4689m	0.389	ppbv	
49) Bromoform	9.494	173	3991	0.395	ppbv	91
50) 4-Methyl-2-Pentanone	5.781	43	5540m	0.328	ppbv	
51) 2-Hexanone	7.458	43	3974m	0.295	ppbv	
52) Tetrachloroethene	8.238	164	2256m	0.341	ppbv	
53) Toluene	6.943	91	4842m	0.263	ppbv	
54) 1,2-Dibromoethane	7.665	107	3765m	0.345	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.937	131	5540m	0.602	ppbv	
57) Chlorobenzene	8.924	112	7766m	0.496	ppbv	
58) Ethyl Benzene	9.361	91	6764m	0.260	ppbv	
59) m/p-Xylene	9.558	91	10600m	0.485	ppbv	
60) o-Xylene	9.969	91	5511m	0.252	ppbv	
61) Styrene	9.882	104	2128m	0.261	ppbv	
62) Isopropylbenzene	10.542	105	9764	0.310	ppbv	94
63) 1,1,2,2-Tetrachloroethane	9.969	83	7375	0.489	ppbv	91
64) n-propylbenzene	10.995	120	1901	0.247	ppbv	81
65) tert-Butylbenzene	11.536	119	7121	0.253	ppbv	97
66) Benzyl Chloride	11.617	91	1510	0.464	ppbv #	92
67) sec-Butylbenzene	11.775	105	10559	0.264	ppbv	99
69) p-Isopropyltoluene	11.934	119	8016	0.238	ppbv	93
70) n-Butylbenzene	12.290	91	8281	0.238	ppbv	98
71) 2-Chlorotoluene	10.905	91	6370	0.257	ppbv	93
72) 4-Ethyltoluene	11.128	105	6217	0.241	ppbv #	89
73) 1,3,5-Trimethylbenzene	11.212	105	5594	0.247	ppbv	94
74) 1,2,4-Trimethylbenzene	11.542	105	6753	0.246	ppbv #	96
75) 1,3-Dichlorobenzene	11.610	146	6344	0.415	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	5258	0.364	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	6115	0.409	ppbv	97
78) Hexachloro-1,3-Butadiene	13.886	225	6511	0.436	ppbv	93
79) Naphthalene	13.520	128	3870	0.168	ppbv #	71
80) Naphthalene,2-methyl-	14.471	142	519	0.030	ppbv #	54
81) 1,2,4-Trichlorobenzene	13.452	180	2213	0.180	ppbv	96

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

