

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050625\
 Data File : VL042497.D
 Acq On : 06 May 2025 15:29
 Operator : SY/MD
 Sample : MDL3 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL3 0.45

Quant Time: May 07 01:41:37 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	2.797	49	67149	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.972	114	175094	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	146510	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 143269 10.547 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	6699	0.603	ppbv	96
3) Chlorodifluoromethane	1.479	51	6487	0.552	ppbv	93
4) Chloromethane	1.534	50	2936	0.632	ppbv #	74
5) Vinyl Chloride	1.583	62	2599	0.556	ppbv	97
6) Bromomethane	1.670	94	1459	0.660	ppbv #	61
7) Chloroethane	1.709	64	966	0.559	ppbv #	84
8) Dichlorotetrafluoroethane	1.557	85	5750	0.628	ppbv	94
9) Propene	1.486	41	1592	0.414	ppbv #	82
10) Heptane	4.994	43	4043m	0.406	ppbv	
11) Trichlorofluoromethane	1.884	101	6089	0.594	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.146	101	5312	0.649	ppbv	98
13) Ethanol	1.729	45	788m	1.010	ppbv	
14) Bromoethene	1.784	108	1924	0.637	ppbv #	89
15) Acetone	1.842	43	7859	0.641	ppbv #	89
16) 1,3-Butadiene	1.615	39	3011	0.557	ppbv	99
17) tert-Butyl alcohol	2.049	59	5716	0.529	ppbv #	85
18) 1,1-Dichloroethene	2.043	96	2227	0.583	ppbv #	87
19) Isopropyl Alcohol	1.894	45	3463	0.510	ppbv #	93
20) Methylene Chloride	2.065	84	2653	0.720	ppbv	98
21) Allyl Chloride	2.104	41	4390	0.557	ppbv	89
22) trans-1,2-Dichloroethene	2.350	96	2484	0.556	ppbv #	80
23) Vinyl Acetate	2.470	43	5617	0.480	ppbv #	93
24) 1,1-Dichloroethane	2.415	63	5025	0.552	ppbv #	85
25) Ethyl Acetate	2.849	43	8587m	0.438	ppbv	
26) Hexane	2.829	57	3384	0.396	ppbv #	84
27) Carbon Disulfide	2.159	76	5150	0.516	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	3132	0.610	ppbv	94
29) Chloroform	2.858	83	8527	0.532	ppbv	99
30) Cyclohexane	3.862	84	2628m	0.368	ppbv	
31) cis-1,2-Dichloroethene	2.732	61	4407m	0.442	ppbv	
32) 1,1,1-Trichloroethane	3.376	97	8445	0.486	ppbv	99
34) 2-Butanone	2.567	43	6548	0.517	ppbv	100
35) Carbon Tetrachloride	3.774	117	9078	0.571	ppbv	92
36) Benzene	3.667	78	7205	0.436	ppbv #	83
37) 1,2-Dichloroethane	3.227	62	7357m	0.578	ppbv	
38) Trichloroethene	4.561	130	3598m	0.571	ppbv	
39) 1,2-Dichloropropane	4.337	63	3266m	0.528	ppbv	
40) 1,4-Dioxane	4.616	88	1384m	0.478	ppbv	
41) Tetrahydrofuran	3.078	42	2128m	0.354	ppbv	
42) Bromodichloromethane	4.512	83	8270	0.531	ppbv #	86
43) Methyl Methacrylate	4.901	69	2388m	0.387	ppbv	
44) 2,2,4-Trimethylpentane	4.651	57	10990m	0.410	ppbv	
45) t-1,3-Dichloropropene	6.444	75	3118m	0.385	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	3780m	0.393	ppbv	
47) 1,1,2-Trichloroethane	6.600	97	3646m	0.537	ppbv	
48) Dibromochloromethane	7.402	129	5551m	0.485	ppbv	
49) Bromoform	9.497	173	4788m	0.498	ppbv	
50) 4-Methyl-2-Pentanone	5.784	43	6563m	0.410	ppbv	
51) 2-Hexanone	7.464	43	4509m	0.352	ppbv	
52) Tetrachloroethene	8.238	164	2881	0.458	ppbv #	84
53) Toluene	6.959	91	5756m	0.329	ppbv	
54) 1,2-Dibromoethane	7.678	107	4908m	0.473	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.937	131	5420m	0.626	ppbv	
57) Chlorobenzene	8.937	112	8109	0.551	ppbv #	80
58) Ethyl Benzene	9.364	91	7966m	0.325	ppbv	
59) m/p-Xylene	9.548	91	14019m	0.683	ppbv	
60) o-Xylene	9.972	91	6747	0.328	ppbv	98
61) Styrene	9.882	104	2197m	0.286	ppbv	
62) Isopropylbenzene	10.549	105	10778	0.364	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.976	83	7418m	0.524	ppbv	
64) n-propylbenzene	11.002	120	2689	0.371	ppbv	87
65) tert-Butylbenzene	11.539	119	8871	0.335	ppbv	99
67) sec-Butylbenzene	11.778	105	13100	0.348	ppbv	97
69) p-Isopropyltoluene	11.937	119	9527	0.301	ppbv #	89
70) n-Butylbenzene	12.290	91	9888	0.302	ppbv	90
71) 2-Chlorotoluene	10.914	91	7782	0.335	ppbv	96
72) 4-Ethyltoluene	11.138	105	7467	0.308	ppbv #	84
73) 1,3,5-Trimethylbenzene	11.212	105	7226	0.339	ppbv #	85
74) 1,2,4-Trimethylbenzene	11.545	105	9418	0.365	ppbv	90
75) 1,3-Dichlorobenzene	11.617	146	6836	0.476	ppbv	93
76) 1,4-Dichlorobenzene	11.678	146	6114	0.450	ppbv	96
77) 1,2-Dichlorobenzene	11.956	146	7457	0.531	ppbv	95
78) Hexachloro-1,3-Butadiene	13.892	225	7573	0.540	ppbv	97
80) Naphthalene,2-methyl-	14.471	142	1745	0.108	ppbv #	86
81) 1,2,4-Trichlorobenzene	13.449	180	3803	0.329	ppbv	97

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

