

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043157.D
 Acq On : 06 Nov 2025 08:45
 Operator : SY/MD
 Sample : VL1106ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1106ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:17:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	111380	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	340583	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	299526	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 237797 10.214 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	170728	10.782	ppbv	99
3) Chlorodifluoromethane	1.476	51	171506	10.011	ppbv	97
4) Chloromethane	1.534	50	57299	9.134	ppbv	100
5) Vinyl Chloride	1.580	62	55895	9.085	ppbv	100
6) Bromomethane	1.667	94	34540	10.238	ppbv	96
7) Chloroethane	1.706	64	23501	9.342	ppbv	89
8) Dichlorotetrafluoroethane	1.554	85	136433	10.661	ppbv	92
9) Propene	1.483	41	64760	8.523	ppbv	99
10) Heptane	4.978	43	189938	8.683	ppbv	98
11) Trichlorofluoromethane	1.877	101	181952	11.748	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	139934	11.222	ppbv	96
13) Ethanol	1.719	45	21163	7.530	ppbv	98
14) Bromoethene	1.780	108	49693	10.727	ppbv	99
15) Acetone	1.835	43	134115	8.934	ppbv	99
16) 1,3-Butadiene	1.609	39	62625	8.753	ppbv	98
17) tert-Butyl alcohol	2.039	59	203295	9.865	ppbv	100
18) 1,1-Dichloroethene	2.036	96	59563	10.957	ppbv	84
19) Isopropyl Alcohol	1.884	45	80943	8.657	ppbv	92
20) Methylene Chloride	2.062	84	53912	9.085	ppbv	94
21) Allyl Chloride	2.094	41	101879	9.210	ppbv	94
22) trans-1,2-Dichloroethene	2.340	96	69305	10.665	ppbv	93
23) Vinyl Acetate	2.460	43	232125	10.556	ppbv	99
24) 1,1-Dichloroethane	2.408	63	131599	10.482	ppbv	98
25) Ethyl Acetate	2.832	43	354153	9.513	ppbv	100
26) Hexane	2.826	57	161029	9.387	ppbv	98
27) Carbon Disulfide	2.149	76	167737	10.672	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	76290	9.775	ppbv	94
29) Chloroform	2.848	83	272377	10.958	ppbv	100
30) Cyclohexane	3.855	84	139050	9.287	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	171275	10.456	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	276541	10.684	ppbv	100
34) 2-Butanone	2.554	43	237347	10.367	ppbv	100
35) Carbon Tetrachloride	3.761	117	289096	11.806	ppbv	94
36) Benzene	3.654	78	326982	10.193	ppbv	99
37) 1,2-Dichloroethane	3.217	62	208468	11.281	ppbv	98
38) Trichloroethene	4.544	130	129044	9.632	ppbv	96
39) 1,2-Dichloropropane	4.308	63	117166	9.991	ppbv	93
40) 1,4-Dioxane	4.574	88	49474	9.428	ppbv #	96
41) Tetrahydrofuran	3.049	42	118637	9.265	ppbv	97
42) Bromodichloromethane	4.486	83	291226	11.387	ppbv	99
43) Methyl Methacrylate	4.875	69	160012	9.821	ppbv	95
44) 2,2,4-Trimethylpentane	4.638	57	531922	9.828	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	165316	10.111	ppbv	96

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	195336	10.001	ppbv	97
47) 1,1,2-Trichloroethane	6.580	97	130064	10.270	ppbv	92
48) Dibromochloromethane	7.383	129	234841	11.091	ppbv	98
49) Bromoform	9.480	173	199190	11.573	ppbv	99
50) 4-Methyl-2-Pentanone	5.739	43	295763	9.361	ppbv	99
51) 2-Hexanone	7.428	43	227473	9.599	ppbv #	99
52) Tetrachloroethene	8.221	164	119279	10.312	ppbv	97
53) Toluene	6.927	91	368487	9.679	ppbv	99
54) 1,2-Dibromoethane	7.648	107	205210	10.345	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	213620	11.314	ppbv	98
57) Chlorobenzene	8.917	112	286347	10.219	ppbv	97
58) Ethyl Benzene	9.351	91	529847	10.307	ppbv	97
59) m/p-Xylene	9.548	91	856422m	20.888	ppbv	
60) o-Xylene	9.963	91	422838	10.442	ppbv	100
61) Styrene	9.865	104	179195	9.802	ppbv	99
62) Isopropylbenzene	10.539	105	762154	10.416	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	269723	9.947	ppbv	98
64) n-propylbenzene	10.989	120	201938	10.424	ppbv	98
65) tert-Butylbenzene	11.529	119	662570	10.254	ppbv	97
66) Benzyl Chloride	11.613	91	64257	8.935	ppbv	99
67) sec-Butylbenzene	11.765	105	957255	10.438	ppbv	99
69) p-Isopropyltoluene	11.924	119	795241	10.205	ppbv	98
70) n-Butylbenzene	12.280	91	798019	10.392	ppbv	99
71) 2-Chlorotoluene	10.898	91	579642	10.386	ppbv	99
72) 4-Ethyltoluene	11.121	105	530791	10.660	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	440663	10.731	ppbv	96
74) 1,2,4-Trimethylbenzene	11.536	105	477453	10.390	ppbv	91
75) 1,3-Dichlorobenzene	11.607	146	290341	10.894	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	291409	10.843	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	276598	10.728	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	207474	10.393	ppbv	99
79) Naphthalene	13.510	128	486413	10.127	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	142500	11.387	ppbv	97
81) 1,2,4-Trichlorobenzene	13.439	180	216292	10.849	ppbv	99

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

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