

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110325\
 Data File : VL043137.D
 Acq On : 03 Nov 2025 08:33
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
 Supervised By :Mahesh Dadoda 11/05/2025

Quant Time: Nov 04 03:05:45 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	2.781	49	122269	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	405030	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.872	117	363489	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 281587 9.967 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	164242	9.449	ppbv	100
3) Chlorodifluoromethane	1.473	51	178758	9.505	ppbv	100
4) Chloromethane	1.531	50	59943	8.705	ppbv	96
5) Vinyl Chloride	1.580	62	57847	8.565	ppbv	97
6) Bromomethane	1.667	94	34176	9.228	ppbv	98
7) Chloroethane	1.703	64	24710	8.948	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	133425	9.497	ppbv	93
9) Propene	1.483	41	77522	9.294	ppbv	99
10) Heptane	4.969	43	219812	9.154	ppbv	100
11) Trichlorofluoromethane	1.875	101	169034	9.942	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.137	101	133669	9.765	ppbv	94
13) Ethanol	1.719	45	21883	7.093	ppbv	98
14) Bromoethene	1.781	108	48915	9.619	ppbv	98
15) Acetone	1.832	43	135078	8.196	ppbv	98
16) 1,3-Butadiene	1.606	39	64869	8.259	ppbv	97
17) tert-Butyl alcohol	2.036	59	212302	9.385	ppbv	99
18) 1,1-Dichloroethene	2.033	96	59840	10.027	ppbv	86
19) Isopropyl Alcohol	1.881	45	88539	8.626	ppbv	97
20) Methylene Chloride	2.059	84	50588	7.766	ppbv	88
21) Allyl Chloride	2.095	41	108458	8.931	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	68932	9.663	ppbv	93
23) Vinyl Acetate	2.457	43	254381	10.537	ppbv	99
24) 1,1-Dichloroethane	2.405	63	129883	9.424	ppbv	100
25) Ethyl Acetate	2.829	43	392119	9.595	ppbv	100
26) Hexane	2.823	57	180827	9.602	ppbv	97
27) Carbon Disulfide	2.146	76	167624	9.715	ppbv	96
28) Methyl tert-Butyl Ether	2.434	73	78889	9.208	ppbv	95
29) Chloroform	2.842	83	272560	9.989	ppbv	99
30) Cyclohexane	3.849	84	158753	9.659	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	181735	10.106	ppbv	94
32) 1,1,1-Trichloroethane	3.360	97	285213	10.038	ppbv	98
34) 2-Butanone	2.551	43	248495	9.127	ppbv	97
35) Carbon Tetrachloride	3.755	117	291623	10.014	ppbv	94
36) Benzene	3.651	78	368027	9.647	ppbv	98
37) 1,2-Dichloroethane	3.211	62	205502	9.351	ppbv	100
38) Trichloroethene	4.538	130	150562	9.450	ppbv	97
39) 1,2-Dichloropropane	4.305	63	131638	9.439	ppbv	96
40) 1,4-Dioxane	4.567	88	59189	9.484	ppbv #	96
41) Tetrahydrofuran	3.046	42	137503	9.030	ppbv	98
42) Bromodichloromethane	4.480	83	303111	9.966	ppbv	95
43) Methyl Methacrylate	4.865	69	177666	9.170	ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	603249	9.373	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	188975	9.719	ppbv	99

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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	5.587	75	224505	9.666	ppbv	97
47) 1,1,2-Trichloroethane	6.568	97	146134	9.703	ppbv	95
48) Dibromochloromethane	7.377	129	261549	10.387	ppbv	97
49) Bromoform	9.474	173	220575	10.777	ppbv	99
50) 4-Methyl-2-Pentanone	5.733	43	340366	9.059	ppbv	100
51) 2-Hexanone	7.422	43	260908	9.258	ppbv #	99
52) Tetrachloroethene	8.215	164	139823	10.164	ppbv	97
53) Toluene	6.920	91	429585	9.488	ppbv	99
54) 1,2-Dibromoethane	7.642	107	228778	9.698	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.914	131	234465	10.233	ppbv	99
57) Chlorobenzene	8.914	112	327054	9.618	ppbv	99
58) Ethyl Benzene	9.348	91	594108	9.524	ppbv	100
59) m/p-Xylene	9.542	91	938313m	18.858	ppbv	
60) o-Xylene	9.956	91	461992	9.401	ppbv	100
61) Styrene	9.863	104	211885	9.551	ppbv	100
62) Isopropylbenzene	10.533	105	847198	9.541	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.953	83	292938	8.902	ppbv	99
64) n-propylbenzene	10.982	120	222061	9.446	ppbv	99
65) tert-Butylbenzene	11.526	119	718206	9.159	ppbv	99
66) Benzyl Chloride	11.610	91	82278	9.427	ppbv	99
67) sec-Butylbenzene	11.762	105	1023625	9.198	ppbv	100
69) p-Isopropyltoluene	11.921	119	870091	9.200	ppbv	99
70) n-Butylbenzene	12.277	91	859996	9.228	ppbv	99
71) 2-Chlorotoluene	10.895	91	629003	9.287	ppbv	98
72) 4-Ethyltoluene	11.118	105	576358	9.538	ppbv	99
73) 1,3,5-Trimethylbenzene	11.196	105	473349	9.499	ppbv	96
74) 1,2,4-Trimethylbenzene	11.533	105	511430	9.171	ppbv #	86
75) 1,3-Dichlorobenzene	11.601	146	313761	9.701	ppbv	98
76) 1,4-Dichlorobenzene	11.665	146	315542	9.675	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	296707	9.483	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	225057	9.290	ppbv	99
79) Naphthalene	13.507	128	534462	9.169	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	173337	11.414	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	241795	9.994	ppbv	98

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

