

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043257.D
 Acq On : 20 Nov 2025 10:14
 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 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

Quant Time: Nov 21 00:33:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	102759	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	275595	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.866	117	222776	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 166532 10.198 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	161177	11.121	ppbv	98
3) Chlorodifluoromethane	1.473	51	146232	10.259	ppbv	95
4) Chloromethane	1.531	50	54380	10.035	ppbv	95
5) Vinyl Chloride	1.577	62	55244	9.322	ppbv	95
6) Bromomethane	1.664	94	27639	9.621	ppbv	99
7) Chloroethane	1.700	64	22384	9.698	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	129834	10.769	ppbv	99
9) Propene	1.480	41	55697m	9.202	ppbv	
10) Heptane	4.959	43	156253	8.674	ppbv	95
11) Trichlorofluoromethane	1.874	101	169670	12.083	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.133	101	126654	11.553	ppbv	97
13) Ethanol	1.716	45	16970	7.973	ppbv	95
14) Bromoethene	1.777	108	45797	10.897	ppbv	96
15) Acetone	1.829	43	122027	8.547	ppbv	99
16) 1,3-Butadiene	1.606	39	62334	9.794	ppbv	97
17) tert-Butyl alcohol	2.033	59	175626	9.372	ppbv	100
18) 1,1-Dichloroethene	2.030	96	55419	10.857	ppbv	88
19) Isopropyl Alcohol	1.881	45	72573	8.996	ppbv	94
20) Methylene Chloride	2.056	84	48499	11.659	ppbv	95
21) Allyl Chloride	2.091	41	83761	8.720	ppbv	93
22) trans-1,2-Dichloroethene	2.334	96	62490	10.711	ppbv	90
23) Vinyl Acetate	2.454	43	157670	9.148	ppbv	99
24) 1,1-Dichloroethane	2.402	63	119663	10.625	ppbv	97
25) Ethyl Acetate	2.823	43	285972	9.287	ppbv	99
26) Hexane	2.819	57	130004	9.630	ppbv	98
27) Carbon Disulfide	2.146	76	150498	10.920	ppbv	99
28) Methyl tert-Butyl Ether	2.431	73	68600	10.352	ppbv	95
29) Chloroform	2.839	83	219297	11.429	ppbv	99
30) Cyclohexane	3.845	84	109617	9.685	ppbv	95
31) cis-1,2-Dichloroethene	2.713	61	137895	10.277	ppbv	93
32) 1,1,1-Trichloroethane	3.357	97	226600	11.079	ppbv	99
34) 2-Butanone	2.548	43	180979	9.303	ppbv	100
35) Carbon Tetrachloride	3.752	117	237548	11.356	ppbv	98
36) Benzene	3.645	78	265981	10.078	ppbv	99
37) 1,2-Dichloroethane	3.208	62	173345	11.229	ppbv	98
38) Trichloroethene	4.528	130	107877	10.447	ppbv	94
39) 1,2-Dichloropropane	4.299	63	92453	9.571	ppbv	95
40) 1,4-Dioxane	4.558	88	36555	8.418	ppbv #	91
41) Tetrahydrofuran	3.040	42	94776	8.822	ppbv	98
42) Bromodichloromethane	4.470	83	237498	11.152	ppbv	99
43) Methyl Methacrylate	4.862	69	125480	8.957	ppbv	96
44) 2,2,4-Trimethylpentane	4.622	57	437108	9.643	ppbv	99
45) t-1,3-Dichloropropene	6.389	75	100231	7.675	ppbv	99

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.577	75	122504	7.989	ppbv	98
47) 1,1,2-Trichloroethane	6.561	97	104460m	10.190	ppbv	
48) Dibromochloromethane	7.370	129	193819	10.997	ppbv	99
49) Bromoform	9.471	173	171644	10.994	ppbv	100
50) 4-Methyl-2-Pentanone	5.723	43	238084	8.688	ppbv	99
51) 2-Hexanone	7.415	43	172317	8.097	ppbv #	99
52) Tetrachloroethene	8.208	164	99129	10.097	ppbv	94
53) Toluene	6.914	91	300158	9.604	ppbv	99
54) 1,2-Dibromoethane	7.636	107	146099	9.684	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.911	131	176606	10.787	ppbv	98
57) Chlorobenzene	8.908	112	236347	10.333	ppbv	98
58) Ethyl Benzene	9.341	91	430385	10.037	ppbv	99
59) m/p-Xylene	9.539	91	709378m	20.635	ppbv	
60) o-Xylene	9.950	91	353166	10.284	ppbv	100
61) Styrene	9.859	104	140574	9.353	ppbv	99
62) Isopropylbenzene	10.529	105	637682	10.379	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.950	83	214523	9.817	ppbv	100
64) n-propylbenzene	10.979	120	158685	10.052	ppbv	97
65) tert-Butylbenzene	11.520	119	544959	9.932	ppbv	98
66) Benzyl Chloride	11.604	91	23441	4.210	ppbv	99
67) sec-Butylbenzene	11.756	105	764527	9.982	ppbv	100
69) p-Isopropyltoluene	11.914	119	641411	9.886	ppbv	100
70) n-Butylbenzene	12.270	91	626151	9.948	ppbv	99
71) 2-Chlorotoluene	10.888	91	466353	9.875	ppbv	99
72) 4-Ethyltoluene	11.115	105	424355	10.147	ppbv	98
73) 1,3,5-Trimethylbenzene	11.193	105	355138	10.119	ppbv	96
74) 1,2,4-Trimethylbenzene	11.526	105	386671	10.095	ppbv	99
75) 1,3-Dichlorobenzene	11.597	146	227896	10.196	ppbv	99
76) 1,4-Dichlorobenzene	11.662	146	226164	10.117	ppbv	100
77) 1,2-Dichlorobenzene	11.937	146	215578	10.032	ppbv	98
78) Hexachloro-1,3-Butadiene	13.873	225	172235	9.604	ppbv	100
79) Naphthalene	13.504	128	324391	9.536	ppbv	98
80) Naphthalene,2-methyl-	14.449	142	78637	8.806	ppbv	98
81) 1,2,4-Trichlorobenzene	13.429	180	160725	10.564	ppbv	99

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

