

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052225\
 Data File : VL042572.D
 Acq On : 22 May 2025 09:22
 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 05/23/2025
 Supervised By : Mahesh Dadoda 05/23/2025

Quant Time: May 23 01:30:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M

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

QLast Update : Wed May 21 00:21:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	130815	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	409921	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	353154	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.386 95 304559 10.775 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	240819	9.844	ppbv	99
3) Chlorodifluoromethane	1.479	51	200758	9.960	ppbv	100
4) Chloromethane	1.534	50	76798	9.744	ppbv	99
5) Vinyl Chloride	1.583	62	83030	9.556	ppbv	98
6) Bromomethane	1.670	94	49255	9.853	ppbv	99
7) Chloroethane	1.709	64	33948	9.717	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	204184	9.853	ppbv	100
9) Propene	1.486	41	67953	9.701	ppbv	99
10) Heptane	4.997	43	195958	10.617	ppbv	98
11) Trichlorofluoromethane	1.881	101	238935	9.355	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	192612	9.354	ppbv	99
13) Ethanol	1.725	45	7612	7.496	ppbv	98
14) Bromoethene	1.787	108	74047	9.519	ppbv	99
15) Acetone	1.839	43	145949	8.006	ppbv	100
16) 1,3-Butadiene	1.612	39	71325	9.637	ppbv	97
17) tert-Butyl alcohol	2.046	59	192909	9.157	ppbv	100
18) 1,1-Dichloroethene	2.039	96	85383	9.176	ppbv	97
19) Isopropyl Alcohol	1.890	45	96315	9.291	ppbv #	35
20) Methylene Chloride	2.065	84	72315	8.193	ppbv	99
21) Allyl Chloride	2.101	41	110556	9.468	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	97386	9.433	ppbv	99
23) Vinyl Acetate	2.470	43	207532	10.005	ppbv	98
24) 1,1-Dichloroethane	2.415	63	167059	9.436	ppbv	99
25) Ethyl Acetate	2.845	43	363385	10.312	ppbv	100
26) Hexane	2.832	57	165261	10.373	ppbv	98
27) Carbon Disulfide	2.156	76	223122	9.668	ppbv	95
28) Methyl tert-Butyl Ether	2.447	73	95244	8.871	ppbv	100
29) Chloroform	2.858	83	298043	9.892	ppbv	100
30) Cyclohexane	3.868	84	141186	10.243	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	166669	9.514	ppbv	99
32) 1,1,1-Trichloroethane	3.379	97	307375	9.982	ppbv	100
34) 2-Butanone	2.567	43	227354	10.448	ppbv	98
35) Carbon Tetrachloride	3.774	117	331829	10.587	ppbv	99
36) Benzene	3.667	78	347784	10.484	ppbv	97
37) 1,2-Dichloroethane	3.227	62	215560	10.635	ppbv	99
38) Trichloroethene	4.564	130	154995	10.237	ppbv	92
39) 1,2-Dichloropropane	4.327	63	122318	10.505	ppbv	95
40) 1,4-Dioxane	4.599	88	56378	10.825	ppbv #	98
41) Tetrahydrofuran	3.065	42	118247	11.147	ppbv	98
42) Bromodichloromethane	4.506	83	312597	10.945	ppbv	98
43) Methyl Methacrylate	4.897	69	123579	10.978	ppbv	96
44) 2,2,4-Trimethylpentane	4.654	57	570937	11.221	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	149232	10.392	ppbv	100

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QLast Update : Wed May 21 00:21:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	187277	10.724	ppbv	99
47) 1,1,2-Trichloroethane	6.603	97	149149	10.693	ppbv	98
48) Dibromochloromethane	7.402	129	264516	10.958	ppbv	99
49) Bromoform	9.496	173	232179	11.270	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	302440	11.584	ppbv	99
51) 2-Hexanone	7.451	43	240290	12.479	ppbv #	96
52) Tetrachloroethene	8.241	164	131700	10.180	ppbv	98
53) Toluene	6.949	91	394109	11.114	ppbv	100
54) 1,2-Dibromoethane	7.668	107	223426	10.994	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.940	131	212865	11.306	ppbv	98
57) Chlorobenzene	8.936	112	342827	10.898	ppbv	97
58) Ethyl Benzene	9.367	91	558983	12.091	ppbv	97
59) m/p-Xylene	9.564	91	977965m	24.773	ppbv	
60) o-Xylene	9.975	91	490476	12.543	ppbv	100
61) Styrene	9.885	104	184953	12.341	ppbv	99
62) Isopropylbenzene	10.552	105	720910	12.050	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	304439	11.651	ppbv	99
64) n-propylbenzene	10.998	120	190040	12.752	ppbv	99
65) tert-Butylbenzene	11.542	119	667139	12.397	ppbv	99
66) Benzyl Chloride	11.623	91	78100	11.600	ppbv	99
67) sec-Butylbenzene	11.778	105	915476	12.052	ppbv	100
69) p-Isopropyltoluene	11.934	119	790991	12.609	ppbv	99
70) n-Butylbenzene	12.290	91	778652	13.137	ppbv	99
71) 2-Chlorotoluene	10.911	91	529456	12.296	ppbv	100
72) 4-Ethyltoluene	11.134	105	614648	12.728	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	513077	12.282	ppbv	98
74) 1,2,4-Trimethylbenzene	11.545	105	595329	11.818	ppbv #	89
75) 1,3-Dichlorobenzene	11.616	146	361329	11.622	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	354489	11.741	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	352518	11.508	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	269838	10.665	ppbv	100
79) Naphthalene	13.523	128	535237	14.180	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	275160	14.149	ppbv	99
81) 1,2,4-Trichlorobenzene	13.448	180	287287	12.671	ppbv	100

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

