

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101625\
 Data File : VL043124.D
 Acq On : 16 Oct 2025 09:14
 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 10/17/2025
 Supervised By :Mahesh Dadoda 10/17/2025

Quant Time: Oct 17 01:11:42 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	2.793	49	93351	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	297102	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	261876	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 213533 10.490 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	143781	10.834	ppbv	97
3) Chlorodifluoromethane	1.479	51	135778	9.456	ppbv	94
4) Chloromethane	1.538	50	49187	9.356	ppbv	99
5) Vinyl Chloride	1.583	62	48019	9.312	ppbv	95
6) Bromomethane	1.670	94	28850	10.203	ppbv	98
7) Chloroethane	1.709	64	19996	9.484	ppbv	96
8) Dichlorotetrafluoroethane	1.557	85	113223	10.556	ppbv	97
9) Propene	1.486	41	51095	8.023	ppbv	97
10) Heptane	4.985	43	147845	8.064	ppbv	98
11) Trichlorofluoromethane	1.881	101	151086	11.639	ppbv	97
12) 1,1,2-Trichlorotrifluoro...	2.143	101	114368	10.943	ppbv	98
13) Ethanol	1.725	45	19303	8.194	ppbv	99
14) Bromoethene	1.784	108	40732	10.491	ppbv	98
15) Acetone	1.839	43	117476	9.337	ppbv	100
16) 1,3-Butadiene	1.612	39	56074	9.351	ppbv	98
17) tert-Butyl alcohol	2.042	59	180463	10.449	ppbv	98
18) 1,1-Dichloroethene	2.039	96	49561	10.878	ppbv	87
19) Isopropyl Alcohol	1.887	45	76214	9.725	ppbv	99
20) Methylene Chloride	2.065	84	44171	8.881	ppbv	90
21) Allyl Chloride	2.101	41	90912	9.805	ppbv	93
22) trans-1,2-Dichloroethene	2.347	96	57654	10.586	ppbv	95
23) Vinyl Acetate	2.466	43	186324	10.109	ppbv	98
24) 1,1-Dichloroethane	2.415	63	111252	10.572	ppbv	99
25) Ethyl Acetate	2.839	43	278882	8.938	ppbv	99
26) Hexane	2.832	57	130825	9.099	ppbv	96
27) Carbon Disulfide	2.156	76	138756	10.533	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	69955	10.695	ppbv	96
29) Chloroform	2.855	83	218827	10.504	ppbv	99
30) Cyclohexane	3.861	84	112730	8.983	ppbv	93
31) cis-1,2-Dichloroethene	2.725	61	140786	10.255	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	231957	10.692	ppbv	99
34) 2-Butanone	2.560	43	183049	9.166	ppbv	97
35) Carbon Tetrachloride	3.771	117	234731	10.989	ppbv	98
36) Benzene	3.664	78	266849	9.536	ppbv	99
37) 1,2-Dichloroethane	3.224	62	175587	10.893	ppbv	97
38) Trichloroethene	4.554	130	105427	9.021	ppbv	99
39) 1,2-Dichloropropane	4.321	63	93327	9.123	ppbv	94
40) 1,4-Dioxane	4.586	88	43974	9.606	ppbv #	88
41) Tetrahydrofuran	3.056	42	93405	8.362	ppbv	93
42) Bromodichloromethane	4.496	83	238626	10.696	ppbv	98
43) Methyl Methacrylate	4.887	69	132764	9.342	ppbv	95
44) 2,2,4-Trimethylpentane	4.648	57	428858	9.084	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	143853	10.086	ppbv	99

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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	5.609	75	162496	9.537	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	105447	9.545	ppbv	97
48) Dibromochloromethane	7.393	129	191024	10.342	ppbv	98
49) Bromoform	9.490	173	152870	10.182	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	240313	8.719	ppbv	99
51) 2-Hexanone	7.438	43	185904	8.993	ppbv #	99
52) Tetrachloroethene	8.231	164	91268	9.045	ppbv	94
53) Toluene	6.943	91	303467	9.138	ppbv	99
54) 1,2-Dibromoethane	7.658	107	166451	9.619	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	170476	10.327	ppbv	98
57) Chlorobenzene	8.927	112	225893	9.221	ppbv	96
58) Ethyl Benzene	9.361	91	434593	9.670	ppbv	99
59) m/p-Xylene	9.558	91	703699m	19.630	ppbv	
60) o-Xylene	9.969	91	345330	9.754	ppbv	98
61) Styrene	9.875	104	149587	9.359	ppbv	97
62) Isopropylbenzene	10.545	105	619283	9.680	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	215827	9.104	ppbv	100
64) n-propylbenzene	10.992	120	155421	9.176	ppbv	88
65) tert-Butylbenzene	11.536	119	529735	9.377	ppbv	95
66) Benzyl Chloride	11.620	91	56872	9.045	ppbv	98
67) sec-Butylbenzene	11.772	105	759806	9.476	ppbv	98
69) p-Isopropyltoluene	11.930	119	641630	9.417	ppbv	97
70) n-Butylbenzene	12.286	91	666160	9.922	ppbv	98
71) 2-Chlorotoluene	10.904	91	480779	9.853	ppbv	97
72) 4-Ethyltoluene	11.131	105	423270	9.723	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	352795	9.826	ppbv	92
74) 1,2,4-Trimethylbenzene	11.542	105	383239	9.539	ppbv	91
75) 1,3-Dichlorobenzene	11.610	146	220064	9.444	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	221416	9.423	ppbv	97
77) 1,2-Dichlorobenzene	11.950	146	208785	9.262	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	151849	8.700	ppbv	100
79) Naphthalene	13.516	128	426155	10.148	ppbv	98
80) Naphthalene,2-methyl-	14.461	142	121228	11.080	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	170691	9.793	ppbv	99

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

Manual Integrations APPROVED

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