

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061625\
 Data File : VL042622.D
 Acq On : 16 Jun 2025 08:54
 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 06/17/2025
 Supervised By :Mahesh Dadoda 06/17/2025

Quant Time: Jun 17 03:02:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	107738	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	288897	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	262507	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 204239 10.379 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	134876	10.186	ppbv	99
3) Chlorodifluoromethane	1.476	51	175470	9.622	ppbv	99
4) Chloromethane	1.531	50	50995	9.725	ppbv	99
5) Vinyl Chloride	1.580	62	47957	8.978	ppbv	99
6) Bromomethane	1.667	94	23512	9.044	ppbv	96
7) Chloroethane	1.703	64	19501	9.396	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	110938	10.055	ppbv	99
9) Propene	1.483	41	68245	9.292	ppbv	98
10) Heptane	4.975	43	194603	9.400	ppbv	99
11) Trichlorofluoromethane	1.877	101	138650	11.254	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	2.140	101	107550	11.117	ppbv	97
13) Ethanol	1.719	45	5413	6.185	ppbv	89
14) Bromoethene	1.780	108	38645	10.620	ppbv	97
15) Acetone	1.835	43	116520	8.979	ppbv	97
16) 1,3-Butadiene	1.609	39	57252	9.313	ppbv	96
17) tert-Butyl alcohol	2.039	59	139063	10.286	ppbv	100
18) 1,1-Dichloroethene	2.033	96	47387	10.568	ppbv	96
19) Isopropyl Alcohol	1.884	45	73508	9.475	ppbv	97
20) Methylene Chloride	2.062	84	39938	9.326	ppbv	95
21) Allyl Chloride	2.094	41	91238	9.964	ppbv	96
22) trans-1,2-Dichloroethene	2.340	96	52863	10.554	ppbv	99
23) Vinyl Acetate	2.460	43	215190	12.267	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	107798	10.460	ppbv	99
25) Ethyl Acetate	2.832	43	347073	9.773	ppbv	99
26) Hexane	2.823	57	150675	9.337	ppbv	97
27) Carbon Disulfide	2.149	76	135326	10.923	ppbv #	91
28) Methyl tert-Butyl Ether	2.437	73	67524	10.311	ppbv	97
29) Chloroform	2.848	83	215284	10.259	ppbv	99
30) Cyclohexane	3.855	84	122368	9.147	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	146273	9.909	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	210503	9.818	ppbv	98
34) 2-Butanone	2.554	43	228811	11.106	ppbv	100
35) Carbon Tetrachloride	3.761	117	212075	11.120	ppbv	100
36) Benzene	3.654	78	301626	10.602	ppbv	99
37) 1,2-Dichloroethane	3.217	62	164738	11.651	ppbv	98
38) Trichloroethene	4.544	130	121690	10.063	ppbv	94
39) 1,2-Dichloropropane	4.311	63	109074	10.368	ppbv	97
40) 1,4-Dioxane	4.577	88	48153	10.229	ppbv #	98
41) Tetrahydrofuran	3.052	42	125788	10.430	ppbv	99
42) Bromodichloromethane	4.486	83	236809	11.792	ppbv	98
43) Methyl Methacrylate	4.875	69	115983	10.504	ppbv	98
44) 2,2,4-Trimethylpentane	4.638	57	508749	10.455	ppbv	98
45) t-1,3-Dichloropropene	6.412	75	133838	10.592	ppbv	95

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	168729	10.657	ppbv	94
47) 1,1,2-Trichloroethane	6.577	97	117073	10.750	ppbv	93
48) Dibromochloromethane	7.383	129	189133	10.848	ppbv	99
49) Bromoform	9.484	173	162032	10.771	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	305302	10.684	ppbv	100
51) 2-Hexanone	7.432	43	244283	10.778	ppbv #	97
52) Tetrachloroethene	8.221	164	103159	9.704	ppbv	98
53) Toluene	6.930	91	337532	10.265	ppbv	99
54) 1,2-Dibromoethane	7.652	107	173642	10.772	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.924	131	140969	10.680	ppbv	96
57) Chlorobenzene	8.920	112	257844	10.116	ppbv	95
58) Ethyl Benzene	9.354	91	465413	10.452	ppbv	96
59) m/p-Xylene	9.548	91	749603m	21.392	ppbv	
60) o-Xylene	9.963	91	368739	10.551	ppbv	98
61) Styrene	9.872	104	167379	10.130	ppbv	99
62) Isopropylbenzene	10.539	105	537202	10.405	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	234954	10.572	ppbv	99
64) n-propylbenzene	10.989	120	141307	10.210	ppbv	94
65) tert-Butylbenzene	11.532	119	469685	10.024	ppbv	96
66) Benzyl Chloride	11.617	91	58077	9.630	ppbv	98
67) sec-Butylbenzene	11.769	105	670092	10.172	ppbv	98
69) p-Isopropyltoluene	11.924	119	553909	10.041	ppbv	99
70) n-Butylbenzene	12.280	91	570539	10.478	ppbv	98
71) 2-Chlorotoluene	10.901	91	410506	10.423	ppbv	98
72) 4-Ethyltoluene	11.125	105	453022	10.397	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	375736	10.419	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	410308	10.253	ppbv #	90
75) 1,3-Dichlorobenzene	11.607	146	255878	10.182	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	256373	10.228	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	239527	9.820	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	181205	8.979	ppbv	99
79) Naphthalene	13.513	128	404699	10.728	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	199431	11.702	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	209155	9.932	ppbv	98

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

