

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042531.D
 Acq On : 12 May 2025 12:22
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/14/2025
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 12 12:59:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL051225AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	101240	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	292487	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	247730	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 233689 10.175 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	31479	1.879	ppbv	95
3) Chlorodifluoromethane	1.470	51	47343	2.673	ppbv	97
4) Chloromethane	1.528	50	66004	9.426	ppbv	96
5) Vinyl Chloride	1.576	62	62085	8.806	ppbv	99
6) Bromomethane	1.664	94	33761	10.136	ppbv	92
7) Chloroethane	1.699	64	24783	9.520	ppbv	93
8) Dichlorotetrafluoroethane	1.551	85	138341	10.017	ppbv	96
10) Heptane	4.968	43	165194	10.992	ppbv	98
11) Trichlorofluoromethane	1.874	101	162715	10.525	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	128595	10.418	ppbv	96
13) Ethanol	1.719	45	7584	6.451	ppbv	98
14) Bromoethene	1.777	108	47268	10.372	ppbv	96
15) Acetone	1.832	43	139402	7.543	ppbv	98
16) 1,3-Butadiene	1.606	39	71803	8.809	ppbv	99
17) tert-Butyl alcohol	2.036	59	144214	8.857	ppbv	99
18) 1,1-Dichloroethene	2.030	96	57065	9.901	ppbv	98
19) Isopropyl Alcohol	1.884	45	82170	8.033	ppbv	99
20) Methylene Chloride	2.059	84	50570	9.102	ppbv	89
21) Allyl Chloride	2.091	41	107339	9.031	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	63506	9.434	ppbv	91
23) Vinyl Acetate	2.457	43	168939	9.578	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	126565	9.216	ppbv	98
25) Ethyl Acetate	2.832	43	301240	10.180	ppbv	100
26) Hexane	2.819	57	129742	10.064	ppbv	99
27) Carbon Disulfide	2.146	76	160190	10.648	ppbv #	91
28) Methyl tert-Butyl Ether	2.437	73	64701	8.354	ppbv	99
29) Chloroform	2.842	83	244130	10.105	ppbv	98
30) Cyclohexane	3.849	84	112925	10.477	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	132658	8.820	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	247925	9.459	ppbv	98
34) 2-Butanone	2.554	43	188648	8.917	ppbv	96
35) Carbon Tetrachloride	3.755	117	274580	10.334	ppbv	99
36) Benzene	3.651	78	270638	9.805	ppbv	95
37) 1,2-Dichloroethane	3.214	62	187065	8.794	ppbv	99
38) Trichloroethene	4.541	130	113937	10.824	ppbv	98
39) 1,2-Dichloropropane	4.308	63	96289	9.319	ppbv	85
40) 1,4-Dioxane	4.577	88	34868	7.206	ppbv #	100
41) Tetrahydrofuran	3.049	42	94890	9.438	ppbv	98
42) Bromodichloromethane	4.483	83	255973	9.848	ppbv	95
43) Methyl Methacrylate	4.868	69	98210m	9.535	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	464272	10.377	ppbv	98
45) t-1,3-Dichloropropene	6.409	75	119133	8.816	ppbv	96
46) cis-1,3-Dichloropropene	5.593	75	149394	9.302	ppbv	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1,2-Trichloroethane	6.574	97	116890	10.314	ppbv	97
48) Dibromochloromethane	7.380	129	205697	10.752	ppbv	99
49) Bromoform	9.477	173	176571	11.005	ppbv	99
50) 4-Methyl-2-Pentanone	5.739	43	260655	9.740	ppbv	96
51) 2-Hexanone	7.432	43	214393	10.021	ppbv #	98
52) Tetrachloroethene	8.218	164	98476	9.373	ppbv	88
53) Toluene	6.923	91	302285	10.347	ppbv	99
54) 1,2-Dibromoethane	7.645	107	175196	10.112	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.917	131	163521	11.176	ppbv	98
57) Chlorobenzene	8.914	112	264651	10.632	ppbv	88
58) Ethyl Benzene	9.351	91	448540	10.835	ppbv	100
59) m/p-Xylene	9.529	91	791713m	22.811	ppbv	
60) o-Xylene	9.959	91	404034	11.627	ppbv	98
61) Styrene	9.866	104	147664	11.387	ppbv	96
62) Isopropylbenzene	10.535	105	579925	11.570	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	247803	10.343	ppbv	99
64) n-propylbenzene	10.985	120	152062	12.413	ppbv	89
65) tert-Butylbenzene	11.529	119	536105	11.985	ppbv	94
66) Benzyl Chloride	11.613	91	62799	12.147	ppbv	99
67) sec-Butylbenzene	11.762	105	746714	11.747	ppbv	98
69) p-Isopropyltoluene	11.921	119	653440	12.201	ppbv	96
70) n-Butylbenzene	12.277	91	650779	11.754	ppbv	98
71) 2-Chlorotoluene	10.898	91	440320	11.200	ppbv	96
72) 4-Ethyltoluene	11.121	105	506844	12.371	ppbv	98
73) 1,3,5-Trimethylbenzene	11.199	105	428169	11.882	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	488716	11.210	ppbv	96
75) 1,3-Dichlorobenzene	11.604	146	287342	11.839	ppbv	97
76) 1,4-Dichlorobenzene	11.668	146	290443	12.645	ppbv	97
77) 1,2-Dichlorobenzene	11.943	146	277399	11.677	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	223061	9.403	ppbv	99
79) Naphthalene	13.510	128	406535	11.077	ppbv	97
80) Naphthalene,2-methyl-	14.455	142	232931	8.539	ppbv	97
81) 1,2,4-Trichlorobenzene	13.436	180	216738	11.073	ppbv	98

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

