

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042547.D
 Acq On : 20 May 2025 09:46
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/21/2025
 Supervised By :Mahesh Dadoda 05/21/2025

Quant Time: May 20 23:25:02 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 : Tue May 20 23:22:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	121370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	416026	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	368613	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 290806 9.857 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	46846	2.064	ppbv	97
3) Chlorodifluoromethane	1.479	51	38828	2.077	ppbv	100
4) Chloromethane	1.538	50	15072	2.061	ppbv	100
5) Vinyl Chloride	1.583	62	15693	1.947	ppbv	98
6) Bromomethane	1.674	94	9545	2.058	ppbv	97
7) Chloroethane	1.709	64	6704	2.068	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	40280	2.095	ppbv	98
9) Propene	1.489	41	13677	2.104	ppbv	99
10) Heptane	4.998	43	36257	2.118	ppbv	99
11) Trichlorofluoromethane	1.884	101	49043	2.070	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	39934	2.090	ppbv	100
13) Ethanol	1.725	45	1812	1.923	ppbv	96
14) Bromoethene	1.787	108	14842	2.057	ppbv	96
15) Acetone	1.842	43	37081	2.192	ppbv	99
16) 1,3-Butadiene	1.612	39	14253	2.076	ppbv	90
17) tert-Butyl alcohol	2.046	59	39580	2.025	ppbv	99
18) 1,1-Dichloroethene	2.039	96	17753	2.056	ppbv	91
19) Isopropyl Alcohol	1.891	45	19357	2.013	ppbv #	77
20) Methylene Chloride	2.069	84	16564	2.023	ppbv	94
21) Allyl Chloride	2.104	41	22331	2.061	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	19221	2.006	ppbv	94
23) Vinyl Acetate	2.470	43	38993	1.986	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	34313	2.089	ppbv	100
25) Ethyl Acetate	2.845	43	68190	2.086	ppbv	98
26) Hexane	2.836	57	30904	2.091	ppbv	96
27) Carbon Disulfide	2.156	76	44724	2.089	ppbv #	90
28) Methyl tert-Butyl Ether	2.447	73	20955	2.104	ppbv	100
29) Chloroform	2.855	83	57738	2.065	ppbv	97
30) Cyclohexane	3.871	84	27044	2.115	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	33559	2.065	ppbv	96
32) 1,1,1-Trichloroethane	3.379	97	57041	1.997	ppbv	99
34) 2-Butanone	2.567	43	45382	2.055	ppbv	98
35) Carbon Tetrachloride	3.774	117	61000	1.924	ppbv	98
36) Benzene	3.671	78	68454	2.033	ppbv	97
37) 1,2-Dichloroethane	3.227	62	41704	2.027	ppbv	99
38) Trichloroethene	4.564	130	31295	2.037	ppbv	97
39) 1,2-Dichloropropane	4.328	63	24417	2.066	ppbv	98
40) 1,4-Dioxane	4.606	88	10273	1.932	ppbv #	75
41) Tetrahydrofuran	3.069	42	22003	2.044	ppbv	99
42) Bromodichloromethane	4.506	83	59264	2.042	ppbv	99
43) Methyl Methacrylate	4.901	69	23295	2.043	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	108048	2.099	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	29249	2.011	ppbv	97

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	35346	2.002	ppbv	96
47) 1,1,2-Trichloroethane	6.600	97	29298	2.070	ppbv	91
48) Dibromochloromethane	7.403	129	49656	2.027	ppbv	100
49) Bromoform	9.493	173	43149	2.064	ppbv	98
50) 4-Methyl-2-Pentanone	5.778	43	53338	2.017	ppbv	98
51) 2-Hexanone	7.454	43	39354	2.026	ppbv #	99
52) Tetrachloroethene	8.241	164	27225	2.074	ppbv	91
53) Toluene	6.953	91	73097	2.031	ppbv	98
54) 1,2-Dibromoethane	7.668	107	43358	2.106	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	40539	2.063	ppbv	97
57) Chlorobenzene	8.933	112	68014	2.071	ppbv	97
58) Ethyl Benzene	9.367	91	100602	2.085	ppbv	99
59) m/p-Xylene	9.561	91	177328m	4.308	ppbv	
60) o-Xylene	9.976	91	87270	2.142	ppbv	100
61) Styrene	9.882	104	31019	1.986	ppbv	98
62) Isopropylbenzene	10.552	105	130474	2.089	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	55662	2.052	ppbv	100
64) n-propylbenzene	10.998	120	33337	2.143	ppbv	97
65) tert-Butylbenzene	11.539	119	121817	2.169	ppbv	100
66) Benzyl Chloride	11.623	91	13145	1.871	ppbv	100
67) sec-Butylbenzene	11.775	105	170810	2.154	ppbv	100
69) p-Isopropyltoluene	11.934	119	144311	2.204	ppbv	100
70) n-Butylbenzene	12.290	91	138470	2.238	ppbv	98
71) 2-Chlorotoluene	10.911	91	93049	2.070	ppbv	100
72) 4-Ethyltoluene	11.134	105	106770	2.118	ppbv	98
73) 1,3,5-Trimethylbenzene	11.212	105	93446	2.143	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	116976	2.225	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	67880	2.092	ppbv	100
76) 1,4-Dichlorobenzene	11.681	146	65510	2.079	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	67229	2.103	ppbv	98
78) Hexachloro-1,3-Butadiene	13.889	225	58483	2.215	ppbv	98
79) Naphthalene	13.523	128	102435	2.603	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	45912	2.263	ppbv	99
81) 1,2,4-Trichlorobenzene	13.449	180	54581	2.306	ppbv	99

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

