

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052025\
 Data File : VL042549.D
 Acq On : 20 May 2025 10:50
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

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

Quant Time: May 20 23:26:42 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	2.793	49	117316	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398840	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347382	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 278604 10.021 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11933	0.544	ppbv	98
3) Chlorodifluoromethane	1.476	51	9650	0.534	ppbv	98
4) Chloromethane	1.534	50	3786	0.536	ppbv	99
5) Vinyl Chloride	1.583	62	4119	0.529	ppbv #	88
6) Bromomethane	1.670	94	2298	0.513	ppbv	91
7) Chloroethane	1.706	64	1686	0.538	ppbv #	72
8) Dichlorotetrafluoroethane	1.557	85	9669	0.520	ppbv	99
9) Propene	1.486	41	3051	0.486	ppbv	86
10) Heptane	4.991	43	7166	0.433	ppbv	98
11) Trichlorofluoromethane	1.881	101	12411	0.542	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.143	101	9707	0.526	ppbv	96
13) Ethanol	1.725	45	576	0.633	ppbv #	37
14) Bromoethene	1.784	108	3556	0.510	ppbv #	94
15) Acetone	1.839	43	9858	0.603	ppbv	93
16) 1,3-Butadiene	1.612	39	3704	0.558	ppbv	89
17) tert-Butyl alcohol	2.046	59	10041	0.531	ppbv #	94
18) 1,1-Dichloroethene	2.039	96	4428m	0.531	ppbv	
19) Isopropyl Alcohol	1.890	45	5148	0.554	ppbv #	37
20) Methylene Chloride	2.065	84	5037	0.636	ppbv	93
21) Allyl Chloride	2.098	41	5408	0.516	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	4858	0.524	ppbv	85
23) Vinyl Acetate	2.467	43	8843	0.466	ppbv #	90
24) 1,1-Dichloroethane	2.412	63	8281	0.522	ppbv	96
25) Ethyl Acetate	2.842	43	15167	0.480	ppbv	98
26) Hexane	2.829	57	6591	0.461	ppbv	92
27) Carbon Disulfide	2.156	76	9926	0.480	ppbv #	39
28) Methyl tert-Butyl Ether	2.447	73	4938	0.513	ppbv	96
29) Chloroform	2.852	83	14227	0.527	ppbv	99
30) Cyclohexane	3.865	84	5242	0.424	ppbv	93
31) cis-1,2-Dichloroethene	2.726	61	7923	0.504	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	13575	0.492	ppbv	98
34) 2-Butanone	2.564	43	10625	0.502	ppbv	97
35) Carbon Tetrachloride	3.771	117	14866	0.489	ppbv	97
36) Benzene	3.664	78	15613	0.484	ppbv	98
37) 1,2-Dichloroethane	3.224	62	10538	0.534	ppbv	100
38) Trichloroethene	4.557	130	7058	0.479	ppbv	98
39) 1,2-Dichloropropane	4.324	63	5653	0.499	ppbv	89
40) 1,4-Dioxane	4.616	88	2475m	0.486	ppbv	
41) Tetrahydrofuran	3.065	42	4400	0.426	ppbv	95
42) Bromodichloromethane	4.499	83	13457	0.484	ppbv #	97
43) Methyl Methacrylate	4.897	69	4553m	0.417	ppbv	
44) 2,2,4-Trimethylpentane	4.651	57	22539	0.457	ppbv	97
45) t-1,3-Dichloropropene	6.428	75	5959m	0.427	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7327m	0.433	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	6750m	0.497	ppbv	
48) Dibromochloromethane	7.402	129	11385	0.485	ppbv	98
49) Bromoform	9.490	173	9012	0.450	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	10889m	0.430	ppbv	
51) 2-Hexanone	7.457	43	7122m	0.382	ppbv	
52) Tetrachloroethene	8.231	164	6006	0.477	ppbv	93
53) Toluene	6.940	91	14836m	0.430	ppbv	
54) 1,2-Dibromoethane	7.658	107	9474	0.480	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.933	131	9373	0.506	ppbv #	1
57) Chlorobenzene	8.930	112	15816	0.511	ppbv #	95
58) Ethyl Benzene	9.361	91	18066	0.397	ppbv	99
59) m/p-Xylene	9.555	91	30506m	0.786	ppbv	
60) o-Xylene	9.969	91	14836m	0.386	ppbv	
61) Styrene	9.879	104	5227	0.355	ppbv	96
62) Isopropylbenzene	10.545	105	24889	0.423	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	12697	0.497	ppbv	99
64) n-propylbenzene	10.992	120	5620	0.383	ppbv	92
65) tert-Butylbenzene	11.536	119	20436	0.386	ppbv	98
66) Benzyl Chloride	11.623	91	2838	0.429	ppbv #	97
67) sec-Butylbenzene	11.772	105	31370	0.420	ppbv	99
69) p-Isopropyltoluene	11.934	119	22462	0.364	ppbv	97
70) n-Butylbenzene	12.287	91	19614	0.336	ppbv	98
71) 2-Chlorotoluene	10.908	91	16834	0.397	ppbv	99
72) 4-Ethyltoluene	11.131	105	17908	0.377	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	16084	0.391	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	20184	0.407	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	14117	0.462	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	13548	0.456	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	14801	0.491	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	12950	0.520	ppbv	96
79) Naphthalene	13.516	128	11230	0.303	ppbv	100
80) Naphthalene,2-methyl-	14.468	142	3696	0.193	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.445	180	7188	0.322	ppbv	96

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

