

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051225\
 Data File : VL042528.D
 Acq On : 12 May 2025 10:41
 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 05/14/2025
 Supervised By :Mahesh Dadoda 05/14/2025

Quant Time: May 12 23:47:58 2025

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

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

QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	103645	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	291247	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	246447	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 217536 10.145 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	9514	0.565	ppbv	99
3) Chlorodifluoromethane	1.470	51	8566	0.499	ppbv	95
4) Chloromethane	1.528	50	3614	0.526	ppbv #	85
5) Vinyl Chloride	1.573	62	3669	0.522	ppbv	89
6) Bromomethane	1.661	94	1851	0.555	ppbv	88
7) Chloroethane	1.696	64	1420	0.513	ppbv #	78
8) Dichlorotetrafluoroethane	1.550	85	8379	0.579	ppbv	88
9) Propene	1.479	41	2647	0.711	ppbv #	1
10) Heptane	4.968	43	6139m	0.432	ppbv	
11) Trichlorofluoromethane	1.871	101	8790	0.543	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.130	101	7332	0.564	ppbv	98
13) Ethanol	1.719	45	696	0.684	ppbv	68
14) Bromoethene	1.774	108	2341	0.494	ppbv #	92
15) Acetone	1.832	43	10451m	0.631	ppbv	
16) 1,3-Butadiene	1.602	39	4136	0.555	ppbv	92
17) tert-Butyl alcohol	2.036	59	8145	0.532	ppbv	96
18) 1,1-Dichloroethene	2.026	96	3167m	0.556	ppbv	
19) Isopropyl Alcohol	1.881	45	5254	0.584	ppbv #	98
20) Methylene Chloride	2.055	84	3987	0.691	ppbv #	74
21) Allyl Chloride	2.091	41	5485	0.500	ppbv #	84
22) trans-1,2-Dichloroethene	2.334	96	3615	0.542	ppbv	95
23) Vinyl Acetate	2.453	43	9366	0.540	ppbv #	91
24) 1,1-Dichloroethane	2.402	63	6774	0.525	ppbv	99
25) Ethyl Acetate	2.832	43	13222m	0.455	ppbv	
26) Hexane	2.819	57	4939	0.414	ppbv #	78
27) Carbon Disulfide	2.143	76	7953	0.516	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	3573	0.539	ppbv #	87
29) Chloroform	2.842	83	13265	0.536	ppbv	87
30) Cyclohexane	3.845	84	4336m	0.442	ppbv	
31) cis-1,2-Dichloroethene	2.712	61	6890	0.511	ppbv	89
32) 1,1,1-Trichloroethane	3.353	97	12360	0.495	ppbv	95
34) 2-Butanone	2.554	43	9997	0.521	ppbv	93
35) Carbon Tetrachloride	3.748	117	12876m	0.492	ppbv	
36) Benzene	3.645	78	12733	0.493	ppbv #	94
37) 1,2-Dichloroethane	3.208	62	9449	0.513	ppbv	98
38) Trichloroethene	4.528	130	4849m	0.440	ppbv	
39) 1,2-Dichloropropane	4.305	63	5033m	0.524	ppbv	
40) 1,4-Dioxane	4.599	88	2013m	0.526	ppbv	
41) Tetrahydrofuran	3.052	42	3180m	0.384	ppbv	
42) Bromodichloromethane	4.470	83	12586m	0.513	ppbv	
43) Methyl Methacrylate	4.871	69	3499m	0.406	ppbv	
44) 2,2,4-Trimethylpentane	4.625	57	17528m	0.432	ppbv	
45) t-1,3-Dichloropropene	6.389	75	4770m	0.433	ppbv	

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QLast Update : Mon May 12 23:42:45 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	5788m	0.436	ppbv	
47) 1,1,2-Trichloroethane	6.564	97	6332m	0.560	ppbv	
48) Dibromochloromethane	7.370	129	8855m	0.468	ppbv	
49) Bromoform	9.474	173	7130	0.460	ppbv	98
50) 4-Methyl-2-Pentanone	5.755	43	9040m	0.402	ppbv	
51) 2-Hexanone	7.428	43	5937m	0.355	ppbv	
52) Tetrachloroethene	8.208	164	4752m	0.478	ppbv	
53) Toluene	6.920	91	10479m	0.414	ppbv	
54) 1,2-Dibromoethane	7.635	107	8089m	0.489	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.917	131	8150	0.533	ppbv #	1
57) Chlorobenzene	8.907	112	12888	0.521	ppbv #	94
58) Ethyl Benzene	9.348	91	12895	0.384	ppbv	100
59) m/p-Xylene	9.519	91	21373m	0.715	ppbv	
60) o-Xylene	9.950	91	9922m	0.341	ppbv	
61) Styrene	9.859	104	3669m	0.342	ppbv	
62) Isopropylbenzene	10.532	105	16603	0.378	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.956	83	11693	0.501	ppbv	99
64) n-propylbenzene	10.985	120	3813m	0.343	ppbv	
65) tert-Butylbenzene	11.523	119	13867	0.344	ppbv #	95
66) Benzyl Chloride	11.603	91	2476m	0.464	ppbv	
67) sec-Butylbenzene	11.762	105	21235	0.368	ppbv	100
69) p-Isopropyltoluene	11.917	119	15071	0.317	ppbv #	90
70) n-Butylbenzene	12.277	91	15321	0.326	ppbv	95
71) 2-Chlorotoluene	10.895	91	13426	0.404	ppbv	94
72) 4-Ethyltoluene	11.115	105	12284	0.340	ppbv #	93
73) 1,3,5-Trimethylbenzene	11.199	105	10773m	0.342	ppbv	
74) 1,2,4-Trimethylbenzene	11.529	105	13113	0.339	ppbv	96
75) 1,3-Dichlorobenzene	11.600	146	10683	0.440	ppbv	94
76) 1,4-Dichlorobenzene	11.662	146	9591	0.416	ppbv	98
77) 1,2-Dichlorobenzene	11.940	146	12272	0.490	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	11535	0.537	ppbv	96
79) Naphthalene	13.503	128	8133	0.304	ppbv #	92
80) Naphthalene,2-methyl-	14.448	142	2920	0.188	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.435	180	5016	0.307	ppbv	96

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

