

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050125\
 Data File : VL042461.D
 Acq On : 01 May 2025 10:40
 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 05/02/2025
 Supervised By :Mahesh Dadoda 05/05/2025

Quant Time: May 02 01:42:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 01:37:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	68913	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	193701	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	166625	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 150277 9.728 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	6501	0.570	ppbv	94
3) Chlorodifluoromethane	1.476	51	6500	0.539	ppbv	99
4) Chloromethane	1.535	50	2542	0.533	ppbv	95
5) Vinyl Chloride	1.580	62	2441	0.509	ppbv	92
6) Bromomethane	1.667	94	1202	0.530	ppbv	97
7) Chloroethane	1.703	64	862	0.486	ppbv #	68
8) Dichlorotetrafluoroethane	1.554	85	4979	0.530	ppbv	93
9) Propene	1.486	41	2017	0.511	ppbv	96
10) Heptane	4.982	43	4397m	0.430	ppbv	
11) Trichlorofluoromethane	1.878	101	5720	0.562	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.137	101	4540	0.540	ppbv	94
13) Ethanol	1.722	45	474m	0.592	ppbv	
14) Bromoethene	1.784	108	1680	0.542	ppbv #	87
15) Acetone	1.839	43	7680	0.610	ppbv #	82
16) 1,3-Butadiene	1.609	39	3044	0.549	ppbv	86
17) tert-Butyl alcohol	2.046	59	6256	0.564	ppbv #	91
18) 1,1-Dichloroethene	2.036	96	2240	0.571	ppbv	94
19) Isopropyl Alcohol	1.887	45	4208	0.604	ppbv #	96
20) Methylene Chloride	2.062	84	2594	0.686	ppbv #	80
21) Allyl Chloride	2.098	41	4420	0.546	ppbv #	93
22) trans-1,2-Dichloroethene	2.340	96	2554	0.557	ppbv	95
23) Vinyl Acetate	2.460	43	6541	0.558	ppbv #	95
24) 1,1-Dichloroethane	2.412	63	4933	0.528	ppbv	98
25) Ethyl Acetate	2.842	43	10344	0.514	ppbv #	96
26) Hexane	2.829	57	4403	0.502	ppbv	95
27) Carbon Disulfide	2.153	76	5201	0.508	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	2762	0.524	ppbv #	82
29) Chloroform	2.852	83	8791	0.535	ppbv	92
30) Cyclohexane	3.855	84	3910m	0.533	ppbv	
31) cis-1,2-Dichloroethene	2.726	61	5345m	0.522	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	8846m	0.496	ppbv	
34) 2-Butanone	2.564	43	7766	0.554	ppbv	93
35) Carbon Tetrachloride	3.768	117	8286	0.492	ppbv	86
36) Benzene	3.655	78	8951	0.490	ppbv #	92
37) 1,2-Dichloroethane	3.224	62	7149	0.507	ppbv #	95
38) Trichloroethene	4.548	130	3769m	0.541	ppbv	
39) 1,2-Dichloropropane	4.321	63	3561m	0.520	ppbv	
40) 1,4-Dioxane	4.619	88	1701m	0.534	ppbv	
41) Tetrahydrofuran	3.069	42	3187m	0.480	ppbv	
42) Bromodichloromethane	4.496	83	8212	0.477	ppbv	93
43) Methyl Methacrylate	4.891	69	3179m	0.467	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	14435m	0.489	ppbv	
45) t-1,3-Dichloropropene	6.415	75	4238m	0.473	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	5091m	0.479	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	3606m	0.480	ppbv	
48) Dibromochloromethane	7.390	129	6304m	0.498	ppbv	
49) Bromoform	9.484	173	5228	0.492	ppbv	97
50) 4-Methyl-2-Pentanone	5.771	43	8248m	0.466	ppbv	
51) 2-Hexanone	7.454	43	6283m	0.443	ppbv	
52) Tetrachloroethene	8.221	164	3151m	0.453	ppbv	
53) Toluene	6.933	91	9052m	0.468	ppbv	
54) 1,2-Dibromoethane	7.652	107	5705	0.494	ppbv	83
56) 1,1,1,2-Tetrachloroethane	8.924	131	5152	0.524	ppbv #	92
57) Chlorobenzene	8.924	112	9173	0.548	ppbv #	86
58) Ethyl Benzene	9.357	91	12427	0.446	ppbv	90
59) m/p-Xylene	9.552	91	20195m	0.865	ppbv	
60) o-Xylene	9.966	91	9976m	0.427	ppbv	
61) Styrene	9.872	104	3457m	0.396	ppbv	
62) Isopropylbenzene	10.545	105	14837	0.440	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.963	83	8135	0.537	ppbv	96
64) n-propylbenzene	10.992	120	3329m	0.405	ppbv	
65) tert-Butylbenzene	11.536	119	12655	0.421	ppbv	99
66) Benzyl Chloride	11.613	91	1317m	0.379	ppbv	
67) sec-Butylbenzene	11.769	105	17905	0.419	ppbv	97
69) p-Isopropyltoluene	11.927	119	15036	0.417	ppbv	94
70) n-Butylbenzene	12.283	91	15016	0.403	ppbv	93
71) 2-Chlorotoluene	10.905	91	11702	0.443	ppbv	99
72) 4-Ethyltoluene	11.128	105	10671	0.387	ppbv #	91
73) 1,3,5-Trimethylbenzene	11.206	105	9808	0.405	ppbv	89
74) 1,2,4-Trimethylbenzene	11.539	105	13060	0.445	ppbv #	83
75) 1,3-Dichlorobenzene	11.607	146	8127	0.498	ppbv	96
76) 1,4-Dichlorobenzene	11.675	146	7238	0.469	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	8141	0.509	ppbv	94
78) Hexachloro-1,3-Butadiene	13.886	225	8565	0.537	ppbv	99
79) Naphthalene	13.517	128	9735m	0.396	ppbv	
80) Naphthalene,2-methyl-	14.458	142	4153	0.226	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	4992	0.379	ppbv	98

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

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