

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101425\
 Data File : VL043104.D
 Acq On : 14 Oct 2025 09:57
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Oct 15 01:50:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/16/2025
 Supervised By : Mahesh Dadoda 10/16/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	105881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	352313	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	317756	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 246121 9.965 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	7965	0.529	ppbv	97
3) Chlorodifluoromethane	1.476	51	9692	0.595	ppbv	94
4) Chloromethane	1.534	50	3120	0.523	ppbv #	87
5) Vinyl Chloride	1.580	62	3086	0.528	ppbv #	88
6) Bromomethane	1.667	94	1751	0.546	ppbv	94
7) Chloroethane	1.703	64	1237	0.517	ppbv	91
8) Dichlorotetrafluoroethane	1.554	85	6095	0.501	ppbv	91
9) Propene	1.483	41	4527	0.627	ppbv	85
10) Heptane	4.975	43	12218m	0.590	ppbv	
11) Trichlorofluoromethane	1.877	101	7185	0.488	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.140	101	5552	0.468	ppbv	96
13) Ethanol	1.722	45	2072	0.775	ppbv	98
14) Bromoethene	1.780	108	2407	0.547	ppbv #	77
15) Acetone	1.835	43	8703	0.606	ppbv #	78
16) 1,3-Butadiene	1.609	39	5114	0.752	ppbv	85
17) tert-Butyl alcohol	2.043	59	10466	0.534	ppbv #	75
18) 1,1-Dichloroethene	2.033	96	2570	0.497	ppbv	89
19) Isopropyl Alcohol	1.887	45	5536	0.623	ppbv #	42
20) Methylene Chloride	2.059	84	3900	0.691	ppbv #	90
21) Allyl Chloride	2.098	41	6937	0.658	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	3420	0.554	ppbv	90
23) Vinyl Acetate	2.460	43	12508	0.598	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	6654	0.558	ppbv	96
25) Ethyl Acetate	2.836	43	20683m	0.584	ppbv	
26) Hexane	2.823	57	8995	0.552	ppbv	91
27) Carbon Disulfide	2.149	76	8320	0.557	ppbv #	27
28) Methyl tert-Butyl Ether	2.441	73	4055	0.547	ppbv #	28
29) Chloroform	2.848	83	12763	0.540	ppbv	93
30) Cyclohexane	3.852	84	7771	0.546	ppbv #	88
31) cis-1,2-Dichloroethene	2.719	61	9280	0.596	ppbv	91
32) 1,1,1-Trichloroethane	3.366	97	12693	0.516	ppbv	98
34) 2-Butanone	2.557	43	12840	0.539	ppbv	100
35) Carbon Tetrachloride	3.764	117	13038m	0.515	ppbv	
36) Benzene	3.654	78	17573	0.530	ppbv	97
37) 1,2-Dichloroethane	3.217	62	9512	0.498	ppbv #	91
38) Trichloroethene	4.544	130	7452	0.538	ppbv #	81
39) 1,2-Dichloropropane	4.308	63	6959	0.573	ppbv	92
40) 1,4-Dioxane	4.600	88	3090m	0.569	ppbv	
41) Tetrahydrofuran	3.056	42	6806	0.512	ppbv #	87
42) Bromodichloromethane	4.486	83	13704	0.518	ppbv	94
43) Methyl Methacrylate	4.868	69	9962m	0.588	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	29453	0.531	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	8842	0.523	ppbv	99

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 01:49:43 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	10965m	0.543	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	7497m	0.572	ppbv	
48) Dibromochloromethane	7.383	129	11719m	0.535	ppbv	
49) Bromoform	9.480	173	9464	0.532	ppbv	96
50) 4-Methyl-2-Pentanone	5.755	43	19617m	0.597	ppbv	
51) 2-Hexanone	7.438	43	13781m	0.562	ppbv	
52) Tetrachloroethene	8.221	164	6550	0.547	ppbv #	91
53) Toluene	6.930	91	21155	0.537	ppbv	98
54) 1,2-Dibromoethane	7.655	107	10558	0.511	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.927	131	11265	0.562	ppbv #	1
57) Chlorobenzene	8.920	112	16144	0.543	ppbv	98
58) Ethyl Benzene	9.351	91	29140	0.530	ppbv	96
59) m/p-Xylene	9.548	91	47273m	1.086	ppbv	
60) o-Xylene	9.963	91	24082	0.561	ppbv	98
61) Styrene	9.869	104	10700	0.552	ppbv	99
62) Isopropylbenzene	10.539	105	41917	0.540	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.963	83	15149	0.527	ppbv	99
64) n-propylbenzene	10.989	120	10775	0.524	ppbv	92
65) tert-Butylbenzene	11.526	119	38701	0.565	ppbv	97
66) Benzyl Chloride	11.613	91	4324	0.565	ppbv	99
67) sec-Butylbenzene	11.765	105	55597	0.571	ppbv	99
69) p-Isopropyltoluene	11.924	119	45125	0.546	ppbv	97
70) n-Butylbenzene	12.280	91	43906	0.539	ppbv	97
71) 2-Chlorotoluene	10.901	91	30435	0.514	ppbv	92
72) 4-Ethyltoluene	11.125	105	28796	0.545	ppbv	96
73) 1,3,5-Trimethylbenzene	11.202	105	24080	0.553	ppbv	93
74) 1,2,4-Trimethylbenzene	11.532	105	26922	0.552	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	15816	0.559	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	15517	0.544	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	14510	0.530	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	11728	0.554	ppbv	99
79) Naphthalene	13.510	128	26115	0.519	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	7723	0.581	ppbv	95
81) 1,2,4-Trichlorobenzene	13.439	180	9900	0.468	ppbv	98

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

