

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042723.D
 Acq On : 22 Jul 2025 08:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/23/2025
 Supervised By :Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:29:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 22 2025

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	103624	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	320455	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	287373	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 233616 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	150708	9.316	ppbv	100
3) Chlorodifluoromethane	1.476	51	168230	9.188	ppbv	100
4) Chloromethane	1.531	50	62368	9.415	ppbv	100
5) Vinyl Chloride	1.580	62	54376	8.310	ppbv	100
6) Bromomethane	1.667	94	24061	9.086	ppbv	100
7) Chloroethane	1.703	64	20641	8.296	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	122544	8.981	ppbv	100
9) Propene	1.483	41	62955	9.672	ppbv	100
10) Heptane	4.978	43	170864	9.421	ppbv	100
11) Trichlorofluoromethane	1.877	101	147017	8.831	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	115056	8.833	ppbv	100
13) Ethanol	1.719	45	7545m	7.206	ppbv	
14) Bromoethene	1.780	108	41089	8.847	ppbv	100
15) Acetone	1.835	43	126212	7.274	ppbv	100
16) 1,3-Butadiene	1.609	39	63985	8.611	ppbv	100
17) tert-Butyl alcohol	2.039	59	151668	9.206	ppbv	100
18) 1,1-Dichloroethene	2.033	96	52093	9.404	ppbv	100
19) Isopropyl Alcohol	1.884	45	84334	9.171	ppbv	100
20) Methylene Chloride	2.059	84	43816	8.033	ppbv	100
21) Allyl Chloride	2.094	41	102783	9.241	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	56551	8.871	ppbv	100
23) Vinyl Acetate	2.460	43	184024	9.303	ppbv	100
24) 1,1-Dichloroethane	2.408	63	118220	9.302	ppbv	100
25) Ethyl Acetate	2.832	43	303752	9.487	ppbv	100
26) Hexane	2.826	57	133894	9.532	ppbv	100
27) Carbon Disulfide	2.149	76	142744	9.515	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	71602	8.769	ppbv	100
29) Chloroform	2.848	83	211013	9.098	ppbv	100
30) Cyclohexane	3.855	84	119069	9.715	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	141958	9.386	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	226089	9.258	ppbv	100
34) 2-Butanone	2.554	43	201816	9.146	ppbv	100
35) Carbon Tetrachloride	3.764	117	232054	8.838	ppbv	100
36) Benzene	3.654	78	274769	9.229	ppbv	100
37) 1,2-Dichloroethane	3.217	62	173509	9.137	ppbv	100
38) Trichloroethene	4.548	130	127306	8.783	ppbv	100
39) 1,2-Dichloropropane	4.311	63	98188	8.858	ppbv	100
40) 1,4-Dioxane	4.580	88	44753	8.762	ppbv #	96
41) Tetrahydrofuran	3.052	42	107955	9.572	ppbv	100
42) Bromodichloromethane	4.486	83	235255	9.466	ppbv	100
43) Methyl Methacrylate	4.878	69	108863	9.534	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	449058	9.145	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	135146	9.625	ppbv	100

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

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	167051	10.017	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	108420	8.927	ppbv	100
48) Dibromochloromethane	7.386	129	199262	9.872	ppbv	100
49) Bromoform	9.484	173	173745	9.920	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	280957	9.677	ppbv	100
51) 2-Hexanone	7.432	43	228706	9.846	ppbv	100
52) Tetrachloroethene	8.221	164	109482	9.126	ppbv	100
53) Toluene	6.933	91	320906	9.560	ppbv	100
54) 1,2-Dibromoethane	7.652	107	166533	9.176	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	143657	9.279	ppbv	99
57) Chlorobenzene	8.920	112	247623	9.040	ppbv	100
58) Ethyl Benzene	9.354	91	457732	9.535	ppbv	100
59) m/p-Xylene	9.532	91	727630m	18.913	ppbv	
60) o-Xylene	9.966	91	365462	9.425	ppbv	100
61) Styrene	9.869	104	164780	9.866	ppbv	100
62) Isopropylbenzene	10.539	105	533747	9.259	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	194147	8.757	ppbv	100
64) n-propylbenzene	10.989	120	135616	9.327	ppbv	100
65) tert-Butylbenzene	11.529	119	474362	9.196	ppbv	100
66) Benzyl Chloride	11.613	91	55364	11.294	ppbv	100
67) sec-Butylbenzene	11.769	105	653393	9.222	ppbv	100
69) p-Isopropyltoluene	11.924	119	568746	9.583	ppbv	100
70) n-Butylbenzene	12.280	91	563329	9.932	ppbv	100
71) 2-Chlorotoluene	10.901	91	410769	9.401	ppbv	100
72) 4-Ethyltoluene	11.125	105	447687	9.682	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	382699	10.007	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	411894	9.816	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	251931	8.978	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	257811	9.498	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	240874	8.954	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	212439	8.113	ppbv	100
79) Naphthalene	13.513	128	416154	13.303	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	208162	20.227	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	230529	12.042	ppbv	100

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

