

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102325\
 Data File : VT019169.D
 Acq On : 23 Oct 2025 13:00
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/24/2025
 Supervised By : Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 06:43:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\624T102225W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 24 06:37:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.072	128	21211	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	8.570	114	136642	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.743	117	109994	30.000	ug/l	-0.01
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.959	65	56640	30.479	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.600%			
60) 4-Bromofluorobenzene	12.877	95	48735	28.191	ug/l	-0.01
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.967%			
63) Toluene-d8	10.245	98	163023	30.451	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.500%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.878	85	1874	3.219	ug/l	96
3) Chloromethane	2.072	50	3911m	2.927	ug/l	
4) Vinyl Chloride	2.195	62	3835	2.568	ug/l #	85
5) Bromomethane	2.548	94	3795	3.060	ug/l	94
6) Chloroethane	2.677	64	3240m	2.460	ug/l	
7) Trichlorofluoromethane	2.982	101	7082	2.924	ug/l	87
8) Diethyl Ether	3.353	74	3346	2.244	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.676	101	3104m	3.265	ug/l	
10) 1,1-Dichloroethene	3.664	96	2739m	2.876	ug/l	
11) Methyl Iodide	3.864	142	1807	1.947	ug/l #	1
12) Methyl Acetate	4.216	43	6918	1.837	ug/l #	82
13) Acrolein	3.541	56	2105	16.570	ug/l #	44
14) Acrylonitrile	4.845	53	14535	12.520	ug/l	98
15) Acetone	3.746	58	5685m	13.744	ug/l	
16) Carbon Disulfide	3.958	76	5484	3.083	ug/l #	75
17) Allyl chloride	4.210	41	6687m	2.953	ug/l	
18) Methylene Chloride	4.428	84	4397m	3.095	ug/l	
19) trans-1,2-Dichloroethene	6.684	96	3883	2.650	ug/l	94
20) Diisopropyl ether	5.803	45	14605	2.534	ug/l #	64
21) 1,1-Dichloroethane	5.685	63	7116m	2.642	ug/l	
22) cis-1,2-Dichloroethene	6.684	96	3883	2.650	ug/l	89
23) tert-Butyl Alcohol	4.663	59	6610	12.996	ug/l #	100
24) Methyl tert-Butyl Ether	4.898	73	13899m	2.428	ug/l	
25) Chloroform	7.254	83	6514	2.644	ug/l #	84
26) Cyclohexane	7.554	56	4711	2.981	ug/l #	67
29) 1,1-Dichloropropene	7.712	75	3994	2.793	ug/l	95
30) 2-Butanone	6.690	43	21715	12.321	ug/l #	96
31) 2,2-Dichloropropane	6.678	77	5399	2.579	ug/l	100
32) 1,1,1-Trichloroethane	7.471	97	5014	2.783	ug/l #	76
33) Carbon Tetrachloride	7.683	117	3186	2.760	ug/l #	90
34) Benzene	7.971	78	14116	2.665	ug/l #	1
35) Methacrylonitrile	7.037	41	3777	2.518	ug/l	82
36) 1,2-Dichloroethane	8.065	62	4903	2.497	ug/l #	93
37) Trichloroethene	8.840	130	2614	2.682	ug/l	88
38) Methylcyclohexane	9.111	83	4591	3.188	ug/l	86
39) 1,2-Dichloropropane	9.164	63	3296	2.376	ug/l #	90
40) Dibromomethane	9.263	93	1972	2.305	ug/l #	75
41) Bromodichloromethane	10.785	83	2899	2.638	ug/l #	89
42) Vinyl Acetate	5.738	43	56128	12.981	ug/l	100

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43) Ethyl Acetate	6.790	43	8011m	2.765	ug/l	
44) Isopropyl Acetate	8.106	43	10869	2.384	ug/l	100
45) 1,4-Dioxane	9.258	88	2076	52.482	ug/l #	81
46) Methyl methacrylate	9.246	41	4634	2.273	ug/l #	78
47) n-amyl Acetate	12.489	43	7342	2.393	ug/l	95
48) t-1,3-Dichloropropene	10.574	75	4887	2.451	ug/l	94
49) cis-1,3-Dichloropropene	9.963	75	4952	2.364	ug/l	96
50) 1,1,2-Trichloroethane	10.785	97	3199	2.543	ug/l #	88
51) Ethyl methacrylate	10.632	69	5523	2.342	ug/l	94
52) 1,3-Dichloropropane	10.944	76	5622	2.502	ug/l	97
53) Dibromochloromethane	11.161	129	2665	2.271	ug/l #	5
54) 1,2-Dibromoethane	11.285	107	2760	2.358	ug/l	97
55) 2-Chloroethyl vinyl ether	9.798	63	10425	15.159	ug/l	96
56) Bromoform	12.565	173	1631	2.114	ug/l #	32
58) 4-Methyl-2-Pentanone	10.127	43	33008	12.254	ug/l	98
59) 2-Hexanone	10.127	43	33008	12.254	ug/l #	82
61) Tetrachloroethene	10.856	164	2002	2.880	ug/l	94
62) Toluene	10.315	91	14084	2.859	ug/l	96
64) Chlorobenzene	11.772	112	8204	2.726	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.860	131	2383	2.431	ug/l	85
66) Ethyl Benzene	11.860	91	15094	2.819	ug/l	96
67) m/p-Xylenes	11.990	106	11295	5.675	ug/l	97
68) o-Xylene	12.354	106	5626	2.738	ug/l	88
69) Styrene	12.372	104	9238	2.505	ug/l	95
70) Isopropylbenzene	12.701	105	14986	2.974	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.983	83	5002	2.530	ug/l #	93
72) 1,2,3-Trichloropropane	13.047	75	4347m	2.978	ug/l	
73) Bromobenzene	13.018	156	3246	2.739	ug/l	67
74) n-propylbenzene	13.088	91	17457	2.873	ug/l	100
75) 2-Chlorotoluene	13.306	91	10164	2.732	ug/l	99
76) 1,3,5-Trimethylbenzene	13.247	105	12119	2.931	ug/l	99
77) t-1,4-Dichloro-2-butene	12.759	75	1441	2.032	ug/l	93
78) 4-Chlorotoluene	13.182	91	10025	2.732	ug/l	93
79) tert-butylbenzene	13.547	119	11276	3.071	ug/l	95
80) 1,2,4-Trimethylbenzene	13.600	105	12136	2.813	ug/l	97
81) sec-Butylbenzene	13.746	105	15337	2.899	ug/l	99
82) p-Isopropyltoluene	13.882	119	12256	2.784	ug/l	95
83) 1,3-Dichlorobenzene	13.882	146	6587	2.834	ug/l	98
84) 1,4-Dichlorobenzene	13.970	146	6380	2.727	ug/l	99
85) n-Butylbenzene	14.252	91	10926	2.712	ug/l	99
86) Hexachloroethane	14.563	117	1605	2.721	ug/l #	1
87) 1,2-Dichlorobenzene	14.305	146	6448	2.777	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	15.004	75	928	2.136	ug/l #	78
89) 1,2,4-Trichlorobenzene	15.797	180	3850	2.724	ug/l	96
90) Hexachlorobutadiene	15.915	225	1506	3.214	ug/l	76
91) Naphthalene	16.079	128	15025	2.750	ug/l #	77
92) 1,2,3-Trichlorobenzene	16.314	180	4149	2.908	ug/l	86

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

