

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102725\
 Data File : VT019189.D
 Acq On : 27 Oct 2025 10:31
 Operator : SY/MD
 Sample : MDL07
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 10/30/2025
 Supervised By :Mahesh Dadoda 10/30/2025

Quant Time: Oct 28 05:58:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\624T102225W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 24 06:05:07 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.025	128	24611m	30.000	ug/l	-0.05
28) 1,4-Difluorobenzene	8.529	114	165626	30.000	ug/l	-0.05
57) Chlorobenzene-d5	11.708	117	135576	30.000	ug/l	-0.05
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.918	65	66473	30.829	ug/l	-0.05
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.767%			
60) 4-Bromofluorobenzene	12.842	95	61150	28.698	ug/l	-0.05
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.667%			
63) Toluene-d8	10.209	98	196324	29.751	ug/l	-0.05
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.167%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.860	85	2221	3.288	ug/l	97
3) Chloromethane	2.060	50	4250m	2.741	ug/l	
4) Vinyl Chloride	2.183	62	4278m	2.469	ug/l	
5) Bromomethane	2.530	94	4374	3.040	ug/l	99
6) Chloroethane	2.665	64	3713	2.430	ug/l	92
7) Trichlorofluoromethane	2.953	101	7264m	2.585	ug/l	
8) Diethyl Ether	3.323	74	4047	2.339	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.652	101	3881	3.518	ug/l #	32
10) 1,1-Dichloroethene	3.623	96	3693	3.342	ug/l	92
11) Methyl Iodide	3.840	142	2204m	2.046	ug/l	
12) Methyl Acetate	4.175	43	8257	1.889	ug/l	94
13) Acrolein	3.517	56	1693m	11.486	ug/l	
14) Acrylonitrile	4.798	53	17363m	12.890	ug/l	
15) Acetone	3.699	58	9676	20.161	ug/l	95
16) Carbon Disulfide	3.928	76	6107m	2.959	ug/l	
17) Allyl chloride	4.169	41	7497	2.854	ug/l	97
18) Methylene Chloride	4.387	84	6103	3.703	ug/l	92
19) trans-1,2-Dichloroethene	6.649	96	4739m	2.787	ug/l	
20) Diisopropyl ether	5.756	45	18192m	2.720	ug/l	
21) 1,1-Dichloroethane	5.650	63	8619	2.758	ug/l #	94
22) cis-1,2-Dichloroethene	6.649	96	4740	2.788	ug/l #	17
23) tert-Butyl Alcohol	4.616	59	9566m	16.209	ug/l	
24) Methyl tert-Butyl Ether	4.851	73	17551m	2.643	ug/l	
25) Chloroform	7.213	83	7978	2.791	ug/l	100
26) Cyclohexane	7.512	56	5455m	2.975	ug/l	
29) 1,1-Dichloropropene	7.659	75	4553	2.627	ug/l	77
30) 2-Butanone	6.649	43	31240	14.624	ug/l	99
31) 2,2-Dichloropropane	6.643	77	7235m	2.851	ug/l	
32) 1,1,1-Trichloroethane	7.418	97	5794	2.654	ug/l #	79
33) Carbon Tetrachloride	7.648	117	3568	2.550	ug/l #	96
34) Benzene	7.930	78	17429	2.714	ug/l #	1
35) Methacrylonitrile	7.001	41	4664m	2.565	ug/l	
36) 1,2-Dichloroethane	8.024	62	5941	2.496	ug/l	97
37) Trichloroethene	8.799	130	3097	2.622	ug/l	88
38) Methylcyclohexane	9.075	83	4910	2.813	ug/l	95
39) 1,2-Dichloropropane	9.122	63	4249	2.527	ug/l	96
40) Dibromomethane	9.222	93	2442	2.355	ug/l #	68
41) Bromodichloromethane	10.744	83	3354	2.518	ug/l #	92
42) Vinyl Acetate	5.691	43	66509	12.690	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.743	43	9303m	2.649	ug/l	
44) Isopropyl Acetate	8.076	43	13477	2.439	ug/l	95
45) 1,4-Dioxane	9.222	88	2062	43.006	ug/l #	73
46) Methyl methacrylate	9.222	41	5738	2.322	ug/l	92
47) n-amyl Acetate	12.454	43	8852	2.380	ug/l	99
48) t-1,3-Dichloropropene	10.538	75	5813	2.405	ug/l	92
49) cis-1,3-Dichloropropene	9.921	75	6181	2.435	ug/l	96
50) 1,1,2-Trichloroethane	10.744	97	3833	2.513	ug/l #	78
51) Ethyl methacrylate	10.597	69	6687	2.340	ug/l	96
52) 1,3-Dichloropropane	10.908	76	7064	2.593	ug/l	96
53) Dibromochloromethane	11.126	129	3600	2.531	ug/l #	1
54) 1,2-Dibromoethane	11.255	107	3412	2.405	ug/l	96
55) 2-Chloroethyl vinyl ether	9.763	63	11211	13.449	ug/l	94
56) Bromoform	12.530	173	2265	2.422	ug/l #	29
58) 4-Methyl-2-Pentanone	10.092	43	38669	11.647	ug/l	96
59) 2-Hexanone	10.092	43	38430m	11.575	ug/l	
61) Tetrachloroethene	10.826	164	2554	2.980	ug/l #	83
62) Toluene	10.280	91	16197	2.667	ug/l	97
64) Chlorobenzene	11.737	112	9861	2.659	ug/l #	87
65) 1,1,1,2-Tetrachloroethane	11.819	131	3213	2.659	ug/l	92
66) Ethyl Benzene	11.825	91	17323	2.625	ug/l	99
67) m/p-Xylenes	11.954	106	12774	5.207	ug/l	100
68) o-Xylene	12.324	106	6602	2.607	ug/l	90
69) Styrene	12.342	104	10939	2.406	ug/l	97
70) Isopropylbenzene	12.671	105	16635	2.678	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.959	83	6197	2.543	ug/l #	27
72) 1,2,3-Trichloropropane	13.012	75	6083m	3.381	ug/l	
73) Bromobenzene	12.983	156	3763	2.576	ug/l	50
74) n-propylbenzene	13.059	91	20182	2.695	ug/l	98
75) 2-Chlorotoluene	13.265	91	12277	2.678	ug/l	97
76) 1,3,5-Trimethylbenzene	13.212	105	13800	2.708	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	2035	2.328	ug/l	84
78) 4-Chlorotoluene	13.153	91	12141m	2.684	ug/l	
79) tert-butylbenzene	13.511	119	12975m	2.867	ug/l	
80) 1,2,4-Trimethylbenzene	13.564	105	13830	2.601	ug/l	97
81) sec-Butylbenzene	13.711	105	18025	2.764	ug/l	97
82) p-Isopropyltoluene	13.846	119	14474	2.668	ug/l	97
83) 1,3-Dichlorobenzene	13.840	146	8128m	2.837	ug/l	
84) 1,4-Dichlorobenzene	13.934	146	7726	2.679	ug/l	97
85) n-Butylbenzene	14.216	91	12805	2.579	ug/l	99
86) Hexachloroethane	14.528	117	2060	2.833	ug/l #	1
87) 1,2-Dichlorobenzene	14.263	146	7842	2.740	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.968	75	1062	1.983	ug/l #	87
89) 1,2,4-Trichlorobenzene	15.750	180	5004	2.872	ug/l #	86
90) Hexachlorobutadiene	15.885	225	1543	2.671	ug/l	93
91) Naphthalene	16.038	128	17927	2.662	ug/l #	94
92) 1,2,3-Trichlorobenzene	16.267	180	4775	2.716	ug/l	90

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

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