

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102325\
 Data File : VT019168.D
 Acq On : 23 Oct 2025 12:36
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

10/24/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: Oct 24 06:42:26 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	21508	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	8.570	114	144987	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.743	117	117624	30.000	ug/l	-0.01

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.959	65	59365	31.505	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 110	Recovery	= 105.000%	
60) 4-Bromofluorobenzene	12.877	95	53222	28.790	ug/l	-0.01
Spiked Amount	30.000	Range	63 - 112	Recovery	= 95.967%	
63) Toluene-d8	10.245	98	171172	29.899	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.667%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.884	85	1802	3.053	ug/l	85
3) Chloromethane	2.107	50	3835m	2.830	ug/l	
4) Vinyl Chloride	2.195	62	4122	2.722	ug/l	93
5) Bromomethane	2.548	94	3882	3.087	ug/l	90
6) Chloroethane	2.683	64	3615	2.707	ug/l	# 81
7) Trichlorofluoromethane	2.988	101	6978	2.842	ug/l	99
8) Diethyl Ether	3.364	74	3395	2.245	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.687	101	3111m	3.227	ug/l	
10) 1,1-Dichloroethene	3.652	96	3411m	3.532	ug/l	
11) Methyl Iodide	3.864	142	1800m	1.912	ug/l	
12) Methyl Acetate	4.216	43	6285	1.646	ug/l	# 83
13) Acrolein	3.541	56	2191	17.009	ug/l	# 68
14) Acrylonitrile	4.845	53	13240	11.247	ug/l	91
15) Acetone	3.734	58	6001	14.308	ug/l	88
16) Carbon Disulfide	3.969	76	5820	3.226	ug/l	99
17) Allyl chloride	4.222	41	6764	2.946	ug/l	93
18) Methylene Chloride	4.428	84	4204	2.918	ug/l	91
19) trans-1,2-Dichloroethene	6.684	96	3786	2.548	ug/l	89
20) Diisopropyl ether	5.803	45	14856	2.542	ug/l	# 59
21) 1,1-Dichloroethane	5.697	63	7263m	2.660	ug/l	
22) cis-1,2-Dichloroethene	6.684	96	3786	2.548	ug/l	# 73
23) tert-Butyl Alcohol	4.663	59	6840	13.262	ug/l	# 100
24) Methyl tert-Butyl Ether	4.904	73	14749m	2.541	ug/l	
25) Chloroform	7.260	83	6738	2.697	ug/l	96
26) Cyclohexane	7.559	56	5054	3.154	ug/l	# 89
29) 1,1-Dichloropropene	7.706	75	4272	2.816	ug/l	83
30) 2-Butanone	6.696	43	22716	12.147	ug/l	# 87
31) 2,2-Dichloropropane	6.684	77	5811	2.616	ug/l	# 85
32) 1,1,1-Trichloroethane	7.465	97	4947	2.588	ug/l	# 73
33) Carbon Tetrachloride	7.683	117	3118	2.546	ug/l	# 78
34) Benzene	7.971	78	14929	2.656	ug/l	# 1
35) Methacrylonitrile	7.048	41	3352	2.106	ug/l	96
36) 1,2-Dichloroethane	8.059	62	5153	2.473	ug/l	# 83
37) Trichloroethene	8.846	130	2628	2.542	ug/l	# 74
38) Methylcyclohexane	9.122	83	4911	3.214	ug/l	93
39) 1,2-Dichloropropane	9.158	63	3575	2.428	ug/l	97
40) Dibromomethane	9.252	93	2236	2.463	ug/l	# 72
41) Bromodichloromethane	10.779	83	2757	2.365	ug/l	# 83
42) Vinyl Acetate	5.744	43	54709	11.924	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	6.796	43	7844	2.552	ug/l	#	79
44) Isopropyl Acetate	8.112	43	11623	2.402	ug/l		97
45) 1,4-Dioxane	9.258	88	1914m	45.602	ug/l		
46) Methyl methacrylate	9.246	41	5134	2.373	ug/l	#	82
47) n-amyl Acetate	12.489	43	7500	2.304	ug/l		100
48) t-1,3-Dichloropropene	10.574	75	4958	2.344	ug/l		94
49) cis-1,3-Dichloropropene	9.963	75	5070	2.281	ug/l	#	91
50) 1,1,2-Trichloroethane	10.779	97	3000	2.247	ug/l	#	78
51) Ethyl methacrylate	10.627	69	6194	2.476	ug/l		89
52) 1,3-Dichloropropane	10.944	76	5763	2.417	ug/l		99
53) Dibromochloromethane	11.167	129	2846	2.285	ug/l	#	1
54) 1,2-Dibromoethane	11.285	107	2804	2.258	ug/l		97
55) 2-Chloroethyl vinyl ether	9.804	63	10581	14.500	ug/l		96
56) Bromoform	12.560	173	1803m	2.202	ug/l		
58) 4-Methyl-2-Pentanone	10.127	43	33526	11.639	ug/l		98
59) 2-Hexanone	10.127	43	33526	11.639	ug/l	#	82
61) Tetrachloroethene	10.856	164	2261	3.041	ug/l		93
62) Toluene	10.315	91	13690	2.598	ug/l		96
64) Chlorobenzene	11.766	112	8642	2.685	ug/l		93
65) 1,1,1,2-Tetrachloroethane	11.855	131	2552	2.435	ug/l		88
66) Ethyl Benzene	11.860	91	15912	2.779	ug/l		90
67) m/p-Xylenes	11.984	106	10905	5.123	ug/l		92
68) o-Xylene	12.360	106	5797	2.639	ug/l		99
69) Styrene	12.372	104	10071	2.553	ug/l		95
70) Isopropylbenzene	12.701	105	15158	2.813	ug/l		98
71) 1,1,2,2-Tetrachloroethane	12.988	83	5424	2.565	ug/l	#	93
72) 1,2,3-Trichloropropane	13.053	75	4473m	2.866	ug/l		
73) Bromobenzene	13.018	156	3177	2.507	ug/l		57
74) n-propylbenzene	13.088	91	18142	2.792	ug/l		99
75) 2-Chlorotoluene	13.294	91	10619	2.669	ug/l		98
76) 1,3,5-Trimethylbenzene	13.247	105	12149	2.748	ug/l		93
77) t-1,4-Dichloro-2-butene	12.759	75	1583	2.087	ug/l		84
78) 4-Chlorotoluene	13.188	91	10527	2.683	ug/l		89
79) tert-butylbenzene	13.547	119	11030	2.809	ug/l		96
80) 1,2,4-Trimethylbenzene	13.600	105	12280	2.662	ug/l		97
81) sec-Butylbenzene	13.746	105	16982	3.002	ug/l		97
82) p-Isopropyltoluene	13.882	119	13025	2.767	ug/l		85
83) 1,3-Dichlorobenzene	13.882	146	6833	2.749	ug/l		98
84) 1,4-Dichlorobenzene	13.970	146	6893	2.755	ug/l		98
85) n-Butylbenzene	14.246	91	11658	2.706	ug/l		99
86) Hexachloroethane	14.551	117	1618	2.565	ug/l	#	1
87) 1,2-Dichlorobenzene	14.305	146	6896	2.778	ug/l		94
88) 1,2-Dibromo-3-Chloropr...	15.010	75	942m	2.028	ug/l		
89) 1,2,4-Trichlorobenzene	15.797	180	3823	2.529	ug/l	#	94
90) Hexachlorobutadiene	15.920	225	1594	3.181	ug/l	#	38
91) Naphthalene	16.085	128	14478	2.478	ug/l		99
92) 1,2,3-Trichlorobenzene	16.320	180	3933	2.578	ug/l		94

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

