

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102225\
 Data File : VT019159.D
 Acq On : 22 Oct 2025 15:23
 Operator : SY/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

Quant Time: Oct 24 05:13:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\624T102225W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 24 05:09:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.083	128	23764	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	8.582	114	136571	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.755	117	117301	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.965	65	58582	28.138	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	93.800%	
60) 4-Bromofluorobenzene	12.889	95	56211	30.490	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.633%	
63) Toluene-d8	10.256	98	168658	29.541	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.467%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.878	85	56963	69.955	ug/l	98
3) Chloromethane	2.107	50	128257m	83.069	ug/l	
4) Vinyl Chloride	2.195	62	166503	95.236	ug/l	98
6) Chloroethane	2.647	64	142444	94.103	ug/l	96
7) Trichlorofluoromethane	2.965	101	260432	95.985	ug/l	99
8) Diethyl Ether	3.352	74	166357	99.580	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.676	101	91263	85.671	ug/l	98
10) 1,1-Dichloroethene	3.658	96	94469	88.524	ug/l	98
11) Methyl Iodide	3.858	142	132360	124.134	ug/l	# 9
12) Methyl Acetate	4.222	43	441943	104.727	ug/l	99
13) Acrolein	3.535	56	56461	396.709	ug/l	96
14) Acrylonitrile	4.851	53	637490	490.111	ug/l	99
15) Acetone	3.746	58	191961	414.226	ug/l	99
16) Carbon Disulfide	3.958	76	179452	90.036	ug/l	99
17) Allyl chloride	4.216	41	260988	102.884	ug/l	94
18) Methylene Chloride	4.434	84	140744	88.429	ug/l	98
19) trans-1,2-Dichloroethene	6.696	96	161056	98.094	ug/l	99
20) Diisopropyl ether	5.808	45	633556	98.112	ug/l	# 68
21) 1,1-Dichloroethane	5.697	63	280069	92.818	ug/l	98
22) cis-1,2-Dichloroethene	6.696	96	161056	98.094	ug/l	95
23) tert-Butyl Alcohol	4.686	59	262112	459.964	ug/l	# 100
24) Methyl tert-Butyl Ether	4.909	73	626684	97.631	ug/l	99
25) Chloroform	7.266	83	262456	95.088	ug/l	96
26) Cyclohexane	7.565	56	156351	88.300	ug/l	# 98
29) 1,1-Dichloropropene	7.712	75	145825	102.041	ug/l	96
30) 2-Butanone	6.707	43	891753	506.255	ug/l	99
31) 2,2-Dichloropropane	6.690	77	224491	107.292	ug/l	92
32) 1,1,1-Trichloroethane	7.477	97	187779	104.296	ug/l	# 76
33) Carbon Tetrachloride	7.695	117	132692	115.026	ug/l	# 99
34) Benzene	7.982	78	546284	103.180	ug/l	# 93
35) Methacrylonitrile	7.060	41	144629	96.464	ug/l	97
36) 1,2-Dichloroethane	8.076	62	202207	103.022	ug/l	99
37) Trichloroethene	8.852	130	98023	100.639	ug/l	93
38) Methylcyclohexane	9.122	83	140219	97.434	ug/l	97
39) 1,2-Dichloropropane	9.163	63	140612	101.404	ug/l	# 87
40) Dibromomethane	9.263	93	94027	109.973	ug/l	# 75
41) Bromodichloromethane	10.791	83	113285	103.151	ug/l	# 92
42) Vinyl Acetate	5.750	43	2399250	555.160	ug/l	99
43) Ethyl Acetate	6.807	43	316160	109.187	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Isopropyl Acetate	8.123	43	478203	104.933	ug/l	100
45) 1,4-Dioxane	9.269	88	80583	2038.236	ug/l #	76
46) Methyl methacrylate	9.257	41	226929	111.366	ug/l	83
47) n-amyl Acetate	12.501	43	334580	109.101	ug/l	99
48) t-1,3-Dichloropropene	10.585	75	216752	108.771	ug/l	100
49) cis-1,3-Dichloropropene	9.974	75	224029	107.020	ug/l	97
50) 1,1,2-Trichloroethane	10.791	97	128624	102.282	ug/l #	84
51) Ethyl methacrylate	10.644	69	259021	109.908	ug/l	96
52) 1,3-Dichloropropane	10.955	76	228005	101.512	ug/l	99
53) Dibromochloromethane	11.185	129	131010m	111.622	ug/l	
54) 1,2-Dibromoethane	11.296	107	121384	103.779	ug/l	99
55) 2-Chloroethyl vinyl ether	9.816	63	381947	555.680	ug/l	98
56) Bromoform	12.577	173	95128	123.356	ug/l #	18
58) 4-Methyl-2-Pentanone	10.139	43	1582437	550.866	ug/l	97
59) 2-Hexanone	10.139	43	1582437	550.866	ug/l #	83
61) Tetrachloroethene	10.873	164	72049	97.175	ug/l	96
62) Toluene	10.333	91	532822	101.413	ug/l	100
64) Chlorobenzene	11.784	112	322205	100.401	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.872	131	115126	110.132	ug/l	92
66) Ethyl Benzene	11.872	91	595550	104.299	ug/l	97
67) m/p-Xylenes	12.001	106	447682	210.909	ug/l	97
68) o-Xylene	12.371	106	228356	104.226	ug/l	97
69) Styrene	12.389	104	419495	106.645	ug/l	97
70) Isopropylbenzene	12.712	105	545540	101.513	ug/l	100
71) 1,1,2,2-Tetrachloroethane	13.006	83	211462	100.285	ug/l	98
72) 1,2,3-Trichloropropane	13.059	75	164257m	98.835	ug/l	
73) Bromobenzene	13.035	156	126819	100.351	ug/l	59
74) n-propylbenzene	13.106	91	647440	99.910	ug/l	98
75) 2-Chlorotoluene	13.312	91	408247	102.909	ug/l	98
76) 1,3,5-Trimethylbenzene	13.259	105	450807	102.248	ug/l	96
77) t-1,4-Dichloro-2-butene	12.771	75	88420	116.923	ug/l	87
78) 4-Chlorotoluene	13.200	91	396935	101.433	ug/l	94
79) tert-butylbenzene	13.558	119	388585	99.237	ug/l	93
80) 1,2,4-Trimethylbenzene	13.611	105	478501	104.020	ug/l	97
81) sec-Butylbenzene	13.764	105	560815	99.397	ug/l	100
82) p-Isopropyltoluene	13.893	119	493452	105.126	ug/l	97
83) 1,3-Dichlorobenzene	13.893	146	260059	104.930	ug/l	99
84) 1,4-Dichlorobenzene	13.987	146	252128	101.040	ug/l	98
85) n-Butylbenzene	14.263	91	443060	103.135	ug/l	98
86) Hexachloroethane	14.569	117	77804	123.685	ug/l #	1
87) 1,2-Dichlorobenzene	14.316	146	248793	100.485	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	15.021	75	48490	104.671	ug/l	99
89) 1,2,4-Trichlorobenzene	15.809	180	155964	103.476	ug/l	96
90) Hexachlorobutadiene	15.932	225	48314	96.676	ug/l	82
91) Naphthalene	16.102	128	603762	103.635	ug/l	98
92) 1,2,3-Trichlorobenzene	16.337	180	156115	102.615	ug/l	99

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

