

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102325\
 Data File : VT019165.D
 Acq On : 23 Oct 2025 10:57
 Operator : SY/MD
 Sample : VT1023WBSD01
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VT1023WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Oct 24 06:41:14 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	24249	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	8.564	114	157069	30.000	ug/l	-0.01
57) Chlorobenzene-d5	11.743	117	130482	30.000	ug/l	-0.01
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	66164	31.144	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.800%	
60) 4-Bromofluorobenzene	12.877	95	60437	29.471	ug/l	-0.01
Spiked Amount	30.000	Range	63 - 112	Recovery	= 98.233%	
63) Toluene-d8	10.245	98	191331	30.127	ug/l	-0.01
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.433%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.878	85	12272	18.440	ug/l	100
3) Chloromethane	2.107	50	26951m	17.643	ug/l	
4) Vinyl Chloride	2.201	62	28393	16.631	ug/l	93
5) Bromomethane	2.548	94	25154	17.741	ug/l	90
6) Chloroethane	2.689	64	23855	15.844	ug/l	99
7) Trichlorofluoromethane	2.988	101	45257	16.346	ug/l	96
8) Diethyl Ether	3.353	74	27812	16.315	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.682	101	25880	23.808	ug/l	97
10) 1,1-Dichloroethene	3.658	96	25191	23.134	ug/l	92
11) Methyl Iodide	3.864	142	19668	18.534	ug/l #	8
12) Methyl Acetate	4.216	43	82642	19.192	ug/l	98
13) Acrolein	3.541	56	16671	114.792	ug/l	96
14) Acrylonitrile	4.839	53	114922	86.587	ug/l	98
15) Acetone	3.735	58	45183	95.549	ug/l	95
16) Carbon Disulfide	3.964	76	36300	17.848	ug/l	97
17) Allyl chloride	4.210	41	49865	19.264	ug/l	92
18) Methylene Chloride	4.428	84	30287	18.649	ug/l	90
19) trans-1,2-Dichloroethene	6.678	96	29901	17.848	ug/l	97
20) Diisopropyl ether	5.797	45	116745	17.717	ug/l #	68
21) 1,1-Dichloroethane	5.691	63	54503	17.702	ug/l	98
22) cis-1,2-Dichloroethene	6.678	96	29901	17.848	ug/l	94
23) tert-Butyl Alcohol	4.663	59	53435	91.894	ug/l #	100
24) Methyl tert-Butyl Ether	4.898	73	116649	17.827	ug/l	97
25) Chloroform	7.254	83	50387	17.890	ug/l	97
26) Cyclohexane	7.554	56	33356	18.461	ug/l #	100
29) 1,1-Dichloropropene	7.701	75	29216	17.776	ug/l	96
30) 2-Butanone	6.690	43	169243	83.542	ug/l	99
31) 2,2-Dichloropropane	6.672	77	42893	17.825	ug/l	92
32) 1,1,1-Trichloroethane	7.465	97	37286	18.007	ug/l #	77
33) Carbon Tetrachloride	7.689	117	25777	19.429	ug/l #	98
34) Benzene	7.971	78	104870	17.222	ug/l #	81
35) Methacrylonitrile	7.042	41	28642	16.610	ug/l	92
36) 1,2-Dichloroethane	8.065	62	39096	17.319	ug/l	99
37) Trichloroethene	8.840	130	19484	17.393	ug/l	97
38) Methylcyclohexane	9.111	83	30852	18.640	ug/l	96
39) 1,2-Dichloropropane	9.152	63	26964	16.908	ug/l #	87
40) Dibromomethane	9.252	93	16392	16.670	ug/l #	75
41) Bromodichloromethane	10.779	83	21777	17.241	ug/l #	93
42) Vinyl Acetate	5.738	43	427285	85.966	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.790	43	59646	17.911	ug/l	100
44) Isopropyl Acetate	8.106	43	91144	17.390	ug/l	97
45) 1,4-Dioxane	9.246	88	16497	362.814	ug/l #	76
46) Methyl methacrylate	9.246	41	40603	17.326	ug/l	84
47) n-amyl Acetate	12.489	43	61352	17.395	ug/l	99
48) t-1,3-Dichloropropene	10.574	75	40083	17.490	ug/l	97
49) cis-1,3-Dichloropropene	9.963	75	42236	17.543	ug/l	93
50) 1,1,2-Trichloroethane	10.779	97	25026	17.304	ug/l #	80
51) Ethyl methacrylate	10.627	69	48339	17.834	ug/l	94
52) 1,3-Dichloropropane	10.944	76	44154	17.093	ug/l	99
53) Dibromochloromethane	11.167	129	23860	17.685	ug/l #	2
54) 1,2-Dibromoethane	11.285	107	23259	17.290	ug/l	99
55) 2-Chloroethyl vinyl ether	9.798	63	61191	77.406	ug/l	98
56) Bromoform	12.560	173	16277	18.353	ug/l #	19
58) 4-Methyl-2-Pentanone	10.121	43	267178	83.613	ug/l	98
59) 2-Hexanone	10.121	43	267178	83.613	ug/l #	82
61) Tetrachloroethene	10.856	164	16027	19.433	ug/l	92
62) Toluene	10.315	91	99463	17.019	ug/l	100
64) Chlorobenzene	11.772	112	61446	17.213	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.855	131	21055	18.107	ug/l	91
66) Ethyl Benzene	11.860	91	111526	17.559	ug/l	97
67) m/p-Xylenes	11.984	106	81890	34.682	ug/l	100
68) o-Xylene	12.354	106	42032	17.246	ug/l	95
69) Styrene	12.377	104	74483	17.022	ug/l	96
70) Isopropylbenzene	12.701	105	106850	17.874	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.989	83	42412	18.082	ug/l	96
72) 1,2,3-Trichloropropane	13.047	75	33799m	19.521	ug/l	
73) Bromobenzene	13.018	156	24563	17.473	ug/l	65
74) n-propylbenzene	13.088	91	129938	18.026	ug/l	98
75) 2-Chlorotoluene	13.300	91	75732	17.162	ug/l	97
76) 1,3,5-Trimethylbenzene	13.247	105	88514	18.048	ug/l	96
77) t-1,4-Dichloro-2-butene	12.754	75	14465	17.194	ug/l	86
78) 4-Chlorotoluene	13.182	91	74901	17.207	ug/l	93
79) tert-butylbenzene	13.547	119	79912	18.346	ug/l	96
80) 1,2,4-Trimethylbenzene	13.594	105	91053	17.794	ug/l	99
81) sec-Butylbenzene	13.746	105	116858	18.619	ug/l	99
82) p-Isopropyltoluene	13.882	119	96090	18.403	ug/l	97
83) 1,3-Dichlorobenzene	13.876	146	48350	17.538	ug/l	97
84) 1,4-Dichlorobenzene	13.970	146	49847	17.958	ug/l	98
85) n-Butylbenzene	14.252	91	90555	18.950	ug/l	98
86) Hexachloroethane	14.557	117	14053	20.083	ug/l #	1
87) 1,2-Dichlorobenzene	14.305	146	48511	17.614	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	15.004	75	9619	18.666	ug/l	97
89) 1,2,4-Trichlorobenzene	15.791	180	30735	18.332	ug/l	97
90) Hexachlorobutadiene	15.915	225	11432	20.565	ug/l	83
91) Naphthalene	16.085	128	121059	18.681	ug/l	98
92) 1,2,3-Trichlorobenzene	16.314	180	31374	18.539	ug/l	98

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

