

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102225\
 Data File : VT019161.D
 Acq On : 22 Oct 2025 17:32
 Operator : SY/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 ICVVT102225

Quant Time: Oct 24 06:25:17 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	7.078	128	21047	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	8.576	114	136711	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.755	117	115267	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.971	65	56964	30.893	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.967%	
60) 4-Bromofluorobenzene	12.883	95	53270	29.405	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 98.000%	
63) Toluene-d8	10.256	98	164772	29.369	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 97.900%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.884	85	10038	17.378	ug/l	97
3) Chloromethane	2.101	50	25922m	19.551	ug/l	
4) Vinyl Chloride	2.201	62	25268	17.052	ug/l	99
5) Bromomethane	2.554	94	24356	19.792	ug/l	89
6) Chloroethane	2.689	64	23294	17.825	ug/l	99
7) Trichlorofluoromethane	2.994	101	41208	17.148	ug/l	96
8) Diethyl Ether	3.364	74	27302	18.453	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.693	101	15895	16.847	ug/l	98
10) 1,1-Dichloroethene	3.664	96	15929	16.854	ug/l	94
11) Methyl Iodide	3.870	142	16321	17.720	ug/l	# 10
12) Methyl Acetate	4.228	43	76982	20.597	ug/l	98
13) Acrolein	3.541	56	7433	58.968	ug/l	99
14) Acrylonitrile	4.851	53	103744	90.056	ug/l	98
15) Acetone	3.746	58	35190	85.738	ug/l	100
16) Carbon Disulfide	3.970	76	29868	16.920	ug/l	96
17) Allyl chloride	4.228	41	41242	18.357	ug/l	95
18) Methylene Chloride	4.440	84	25359	17.990	ug/l	98
19) trans-1,2-Dichloroethene	6.690	96	25934	17.835	ug/l	97
20) Diisopropyl ether	5.809	45	100877	17.638	ug/l	# 67
21) 1,1-Dichloroethane	5.703	63	46676	17.466	ug/l	98
22) cis-1,2-Dichloroethene	6.690	96	25934	17.835	ug/l	93
23) tert-Butyl Alcohol	4.675	59	45740	90.628	ug/l	# 100
24) Methyl tert-Butyl Ether	4.910	73	100281	17.657	ug/l	# 83
25) Chloroform	7.272	83	43409	17.757	ug/l	96
26) Cyclohexane	7.565	56	27010	17.223	ug/l	# 97
29) 1,1-Dichloropropene	7.718	75	23846	16.669	ug/l	97
30) 2-Butanone	6.708	43	148224	84.062	ug/l	# 97
31) 2,2-Dichloropropane	6.690	77	35920	17.150	ug/l	# 89
32) 1,1,1-Trichloroethane	7.477	97	30455	16.898	ug/l	# 75
33) Carbon Tetrachloride	7.701	117	19980	17.302	ug/l	# 93
34) Benzene	7.983	78	91044	17.178	ug/l	# 79
35) Methacrylonitrile	7.048	41	24920	16.604	ug/l	94
36) 1,2-Dichloroethane	8.071	62	34133	17.373	ug/l	99
37) Trichloroethene	8.852	130	16254	16.671	ug/l	97
38) Methylcyclohexane	9.122	83	22860	15.868	ug/l	99
39) 1,2-Dichloropropane	9.169	63	23158	16.683	ug/l	# 87
40) Dibromomethane	9.263	93	14991	17.515	ug/l	# 73
41) Bromodichloromethane	10.791	83	19930	18.129	ug/l	# 96
42) Vinyl Acetate	5.750	43	359650	83.134	ug/l	98

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43) Ethyl Acetate	6.807	43	47097	16.248	ug/l #	92
44) Isopropyl Acetate	8.124	43	79285	17.380	ug/l	97
45) 1,4-Dioxane	9.258	88	13960	352.737	ug/l #	76
46) Methyl methacrylate	9.258	41	35944	17.622	ug/l	78
47) n-amyl Acetate	12.495	43	54302	17.689	ug/l	99
48) t-1,3-Dichloropropene	10.585	75	35318	17.705	ug/l	99
49) cis-1,3-Dichloropropene	9.974	75	36460	17.399	ug/l	96
50) 1,1,2-Trichloroethane	10.791	97	21996	17.473	ug/l #	88
51) Ethyl methacrylate	10.638	69	41450	17.570	ug/l	94
52) 1,3-Dichloropropane	10.956	76	39676	17.646	ug/l	99
53) Dibromochloromethane	11.179	129	20599	17.542	ug/l #	2
54) 1,2-Dibromoethane	11.296	107	20990	17.927	ug/l	98
55) 2-Chloroethyl vinyl ether	9.810	63	60090	87.333	ug/l	99
56) Bromoform	12.577	173	14150	18.330	ug/l #	23
58) 4-Methyl-2-Pentanone	10.133	43	240935	85.352	ug/l	97
59) 2-Hexanone	10.133	43	240935	85.352	ug/l #	83
61) Tetrachloroethene	10.867	164	12657	17.372	ug/l	91
62) Toluene	10.327	91	89053	17.249	ug/l	100
64) Chlorobenzene	11.778	112	54770	17.368	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.866	131	17940	17.465	ug/l	91
66) Ethyl Benzene	11.866	91	94980	16.927	ug/l	97
67) m/p-Xylenes	11.996	106	71003	34.041	ug/l	100
68) o-Xylene	12.366	106	37081	17.223	ug/l	94
69) Styrene	12.383	104	65754	17.011	ug/l	96
70) Isopropylbenzene	12.712	105	90665	17.168	ug/l	98
71) 1,1,2,2-Tetrachloroethane	13.000	83	37711	18.200	ug/l	98
72) 1,2,3-Trichloropropane	13.059	75	30790m	20.131	ug/l	
73) Bromobenzene	13.030	156	21653	17.436	ug/l	61
74) n-propylbenzene	13.100	91	108409	17.024	ug/l	98
75) 2-Chlorotoluene	13.306	91	67498	17.315	ug/l	98
76) 1,3,5-Trimethylbenzene	13.259	105	75906	17.520	ug/l	95
77) t-1,4-Dichloro-2-butene	12.765	75	13084	17.606	ug/l	83
78) 4-Chlorotoluene	13.200	91	66443	17.279	ug/l	94
79) tert-butylbenzene	13.558	119	66526	17.289	ug/l	95
80) 1,2,4-Trimethylbenzene	13.605	105	78331	17.329	ug/l	98
81) sec-Butylbenzene	13.758	105	94645	17.070	ug/l	97
82) p-Isopropyltoluene	13.887	119	78410	16.999	ug/l	97
83) 1,3-Dichlorobenzene	13.887	146	42146	17.305	ug/l	98
84) 1,4-Dichlorobenzene	13.982	146	43233	17.631	ug/l	98
85) n-Butylbenzene	14.258	91	70056	16.595	ug/l	98
86) Hexachloroethane	14.569	117	11339	18.344	ug/l #	1
87) 1,2-Dichlorobenzene	14.316	146	42715	17.557	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	15.016	75	8222	18.061	ug/l	98
89) 1,2,4-Trichlorobenzene	15.803	180	25851	17.454	ug/l	97
90) Hexachlorobutadiene	15.926	225	8538	17.386	ug/l	85
91) Naphthalene	16.097	128	99652	17.407	ug/l	98
92) 1,2,3-Trichlorobenzene	16.326	180	26352	17.627	ug/l	99

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

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