

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072525\
 Data File : VX047145.D
 Acq On : 25 Jul 2025 16:23
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Jul 26 04:45:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 26 04:39:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/28/2025
 Supervised By : Mahesh Dadoda 07/28/2025

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

Internal Standards						
1) Bromochloromethane	4.916	128	38747m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.775	114	306313	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	266902	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	124279	25.396	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	84.667%#		
60) 4-Bromofluorobenzene	11.079	95	127151	29.237	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.467%		
63) Toluene-d8	8.653	98	347276	29.873	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.567%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	417425	94.657	ug/l	100
3) Chloromethane	1.313	50	348651	87.972	ug/l	95
4) Vinyl Chloride	1.392	62	426573	89.885	ug/l	99
5) Bromomethane	1.630	94	170686	88.963	ug/l	99
6) Chloroethane	1.703	64	235997	88.103	ug/l	96
7) Trichlorofluoromethane	1.904	101	593289	92.020	ug/l	100
8) Diethyl Ether	2.148	74	215009	91.369	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.349	101	350344	91.437	ug/l	94
10) 1,1-Dichloroethene	2.337	96	350576	89.435	ug/l	93
11) Methyl Iodide	2.471	142	580858	96.009	ug/l #	97
12) Methyl Acetate	2.715	43	446009	91.413	ug/l	97
13) Acrolein	2.252	56	313327	480.197	ug/l	99
14) Acrylonitrile	3.081	53	901934	447.912	ug/l	99
15) Acetone	2.392	58	217193	439.370	ug/l	95
16) Carbon Disulfide	2.532	76	971744	85.511	ug/l	100
17) Allyl chloride	2.685	41	615817	91.957	ug/l	98
18) Methylene Chloride	2.806	84	376038	88.885	ug/l	92
19) trans-1,2-Dichloroethene	3.111	96	360497	89.802	ug/l	89
20) Diisopropyl ether	3.776	45	1266850	88.467	ug/l	95
21) 1,1-Dichloroethane	3.630	63	693919	89.032	ug/l	99
22) cis-1,2-Dichloroethene	4.507	96	431369	88.001	ug/l	99
23) tert-Butyl Alcohol	2.965	59	244021	436.507	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	1174510	89.455	ug/l	100
25) Chloroform	5.111	83	681276	88.782	ug/l	95
26) Cyclohexane	5.489	56	634715	83.869	ug/l #	99
29) 1,1-Dichloropropene	5.708	75	485750	101.817	ug/l	99
30) 2-Butanone	4.568	43	1171301	519.789	ug/l	98
31) 2,2-Dichloropropane	4.489	77	537106m	104.853	ug/l	
32) 1,1,1-Trichloroethane	5.404	97	618331	104.664	ug/l #	79
33) Carbon Tetrachloride	5.690	117	484565m	115.920	ug/l	
34) Benzene	6.050	78	1458054	103.520	ug/l	99
35) Methacrylonitrile	4.934	41	250552	102.855	ug/l	95
36) 1,2-Dichloroethane	6.099	62	517682	102.347	ug/l	99
37) Trichloroethene	7.135	130	371257	104.739	ug/l	99
38) Methylcyclohexane	7.391	83	634281	103.125	ug/l	99
39) 1,2-Dichloropropane	7.434	63	369662	102.372	ug/l	99
40) Dibromomethane	7.586	93	263751	104.712	ug/l	95
41) Bromodichloromethane	7.824	83	551662	104.661	ug/l #	93
42) Vinyl Acetate	3.733	43	5422155	523.416	ug/l	99

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43) Ethyl Acetate	4.727	43	519558	101.117	ug/l	97
44) Isopropyl Acetate	6.349	43	862579	106.696	ug/l	98
45) 1,4-Dioxane	7.726	88	100383	1986.763	ug/l #	76
46) Methyl methacrylate	7.696	41	438490	105.698	ug/l	91
47) n-amyl Acetate	10.842	43	729797	103.241	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	537939	105.593	ug/l	96
49) cis-1,3-Dichloropropene	8.373	75	582102	104.457	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	341173	101.851	ug/l	99
51) Ethyl methacrylate	9.116	69	577278	105.707	ug/l	98
52) 1,3-Dichloropropane	9.311	76	585087	100.681	ug/l	99
53) Dibromochloromethane	9.519	129	158987m	129.231	ug/l	
54) 1,2-Dibromoethane	9.610	107	356246	101.587	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	1394361	523.604	ug/l	100
56) Bromoform	10.799	173	5312m	106.565	ug/l	
58) 4-Methyl-2-Pentanone	8.574	43	2428937	521.576	ug/l	99
59) 2-Hexanone	9.433	43	1695046	514.535	ug/l	99
61) Tetrachloroethene	9.275	164	296088	101.313	ug/l	98
62) Toluene	8.720	91	1528837	102.430	ug/l	99
64) Chlorobenzene	10.080	112	978154	102.200	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.165	131	340471	112.521	ug/l	95
66) Ethyl Benzene	10.195	91	1746131	102.246	ug/l	99
67) m/p-Xylenes	10.299	106	1280088	202.265	ug/l	97
68) o-Xylene	10.640	106	628141	102.914	ug/l	98
69) Styrene	10.653	104	1078502	103.027	ug/l	100
70) Isopropylbenzene	10.964	105	1635688	100.612	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	485382	100.638	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	377303m	101.568	ug/l	
73) Bromobenzene	11.195	156	392287	100.818	ug/l	99
74) n-propylbenzene	11.305	91	1964987	100.673	ug/l	100
75) 2-Chlorotoluene	11.366	91	1145511	99.173	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	1327386	99.236	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	69504	126.438	ug/l	93
78) 4-Chlorotoluene	11.451	91	1331446	99.969	ug/l	100
79) tert-butylbenzene	11.713	119	1351008	100.925	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	1324824	99.857	ug/l	99
81) sec-Butylbenzene	11.890	105	1678021	100.443	ug/l	100
82) p-Isopropyltoluene	12.006	119	1383965	99.696	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	720455	99.101	ug/l	100
84) 1,4-Dichlorobenzene	12.037	146	708626	98.350	ug/l	99
85) n-Butylbenzene	12.329	91	1316545	98.823	ug/l	99
86) Hexachloroethane	12.536	117	162241m	84.047	ug/l	
87) 1,2-Dichlorobenzene	12.335	146	670219	98.299	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	105730	101.260	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	469123	99.513	ug/l	98
90) Hexachlorobutadiene	13.719	225	125333	119.641	ug/l	79
91) Naphthalene	13.774	128	1528375	96.045	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	451247	99.756	ug/l	99

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

