

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072525\
 Data File : VX047146.D
 Acq On : 25 Jul 2025 16:44
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Jul 26 04:46:47 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	24490m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	296252	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	258620	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	119058	38.493	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 128.300%	#
60) 4-Bromofluorobenzene	11.079	95	122950	29.176	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.267%	
63) Toluene-d8	8.653	98	334864	29.728	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.100%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	590026	211.687	ug/l	98
3) Chloromethane	1.313	50	508320	202.927	ug/l	98
4) Vinyl Chloride	1.392	62	609468	203.187	ug/l	99
5) Bromomethane	1.624	94	241848	199.436	ug/l	100
6) Chloroethane	1.703	64	332858	196.603	ug/l	95
7) Trichlorofluoromethane	1.904	101	826284	202.765	ug/l	98
8) Diethyl Ether	2.148	74	304484	204.718	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.349	101	501555	207.106	ug/l	95
10) 1,1-Dichloroethene	2.337	96	501513	202.423	ug/l	95
11) Methyl Iodide	2.471	142	818163	213.959	ug/l	# 97
12) Methyl Acetate	2.715	43	629133	204.012	ug/l	98
13) Acrolein	2.251	56	479298	1162.188	ug/l	99
14) Acrylonitrile	3.081	53	1291736	1014.942	ug/l	100
15) Acetone	2.392	58	310288	993.113	ug/l	95
16) Carbon Disulfide	2.532	76	1374585	191.379	ug/l	100
17) Allyl chloride	2.678	41	861665	203.573	ug/l	97
18) Methylene Chloride	2.806	84	527400	197.237	ug/l	95
19) trans-1,2-Dichloroethene	3.105	96	496598	195.721	ug/l	97
20) Diisopropyl ether	3.776	45	1757421	194.169	ug/l	95
21) 1,1-Dichloroethane	3.623	63	975088	197.939	ug/l	99
22) cis-1,2-Dichloroethene	4.501	96	606568	195.779	ug/l	98
23) tert-Butyl Alcohol	2.983	59	349328	988.660	ug/l	100
24) Methyl tert-Butyl Ether	3.123	73	1647605	198.542	ug/l	100
25) Chloroform	5.111	83	955460	196.998	ug/l	94
26) Cyclohexane	5.483	56	889203	185.896	ug/l	# 100
29) 1,1-Dichloropropene	5.708	75	678630	147.078	ug/l	99
30) 2-Butanone	4.568	43	1638631	751.872	ug/l	98
31) 2,2-Dichloropropane	4.489	77	757822	152.965	ug/l	# 90
32) 1,1,1-Trichloroethane	5.397	97	865103	151.408	ug/l	# 79
33) Carbon Tetrachloride	5.690	117	686108m	169.709	ug/l	
34) Benzene	6.050	78	2042243	149.921	ug/l	99
35) Methacrylonitrile	4.934	41	356316	151.240	ug/l	95
36) 1,2-Dichloroethane	6.098	62	717016	146.570	ug/l	98
37) Trichloroethene	7.135	130	524447	152.982	ug/l	98
38) Methylcyclohexane	7.391	83	892450	150.028	ug/l	99
39) 1,2-Dichloropropane	7.433	63	518913	148.585	ug/l	100
40) Dibromomethane	7.586	93	374220	153.615	ug/l	95
41) Bromodichloromethane	7.824	83	774361	151.900	ug/l	95
42) Vinyl Acetate	3.733	43	7589838	757.550	ug/l	99

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43) Ethyl Acetate	4.721	43	755092	151.947	ug/l	99
44) Isopropyl Acetate	6.348	43	1222691	156.375	ug/l	97
45) 1,4-Dioxane	7.726	88	120761m	2471.250	ug/l	
46) Methyl methacrylate	7.696	41	619950	154.514	ug/l	92
47) n-amyl Acetate	10.841	43	1029353	150.564	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	776532	157.604	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	828586	153.738	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	472903	145.971	ug/l	99
51) Ethyl methacrylate	9.116	69	816856	154.657	ug/l	98
52) 1,3-Dichloropropane	9.311	76	817236	145.405	ug/l	99
53) Dibromochloromethane	9.518	129	250561m	210.583	ug/l	
54) 1,2-Dibromoethane	9.610	107	493381	145.471	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	1995253	774.694	ug/l	100
56) Bromoform	10.787	173	1266m	26.260	ug/l	
58) 4-Methyl-2-Pentanone	8.580	43	3344302	741.134	ug/l	99
59) 2-Hexanone	9.433	43	2350541	736.362	ug/l	98
61) Tetrachloroethene	9.275	164	414941	146.528	ug/l	99
62) Toluene	8.720	91	2116770	146.363	ug/l	98
64) Chlorobenzene	10.079	112	1377106	148.492	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	473620	161.538	ug/l	94
66) Ethyl Benzene	10.195	91	2423108	146.430	ug/l	99
67) m/p-Xylenes	10.305	106	1769357	288.527	ug/l	98
68) o-Xylene	10.640	106	864511	146.177	ug/l	99
69) Styrene	10.652	104	1474021	145.319	ug/l	100
70) Isopropylbenzene	10.963	105	2269619	144.076	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	650206	139.129	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	523584m	145.460	ug/l	
73) Bromobenzene	11.195	156	531458	140.960	ug/l	97
74) n-propylbenzene	11.305	91	2696724	142.587	ug/l	100
75) 2-Chlorotoluene	11.366	91	1577701	140.964	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	1829690	141.169	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	127382	239.147	ug/l	89
78) 4-Chlorotoluene	11.451	91	1820475	141.063	ug/l	100
79) tert-butylbenzene	11.713	119	1851940	142.777	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	1820010	141.574	ug/l	99
81) sec-Butylbenzene	11.890	105	2290815	141.515	ug/l	100
82) p-Isopropyltoluene	12.006	119	1897954	141.100	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	977926	138.825	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	961809	137.765	ug/l	99
85) n-Butylbenzene	12.329	91	1804172	139.763	ug/l	99
86) Hexachloroethane	12.536	117	350704	187.497	ug/l #	1
87) 1,2-Dichlorobenzene	12.335	146	928090	140.479	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	151099	149.346	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	646479	141.526	ug/l	97
90) Hexachlorobutadiene	13.725	225	199136	196.179	ug/l	48
91) Naphthalene	13.774	128	2148241	139.322	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	624555	142.491	ug/l	99

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

