

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046618.D
 Acq On : 10 Jun 2025 21:44
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Jun 11 06:00:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 05:53:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

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

Internal Standards						
1) Bromochloromethane	4.916	128	14285	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	79056	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	70233	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	35515	26.392	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	87.967%#		
60) 4-Bromofluorobenzene	11.079	95	35488	27.562	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.867%		
63) Toluene-d8	8.653	98	93932	25.129	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	83.767%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	128493	110.561	ug/l	96
3) Chloromethane	1.307	50	131817	96.938	ug/l	98
4) Vinyl Chloride	1.386	62	126578	96.157	ug/l	99
5) Bromomethane	1.618	94	70720	137.659	ug/l	98
6) Chloroethane	1.697	64	74708	106.589	ug/l	100
7) Trichlorofluoromethane	1.904	101	181942	101.088	ug/l	99
8) Diethyl Ether	2.148	74	66011	98.510	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.343	101	123494	113.620	ug/l	99
10) 1,1-Dichloroethene	2.337	96	120691	114.235	ug/l	96
11) Methyl Iodide	2.465	142	170109	134.912	ug/l	99
12) Methyl Acetate	2.715	43	132151	99.978	ug/l	100
13) Acrolein	2.252	56	78842	346.997	ug/l	100
14) Acrylonitrile	3.075	53	311908	528.659	ug/l	99
15) Acetone	2.386	58	71578	457.751	ug/l	97
16) Carbon Disulfide	2.526	76	345932	115.182	ug/l	100
17) Allyl chloride	2.678	41	223397	113.089	ug/l	97
18) Methylene Chloride	2.800	84	128528	108.730	ug/l	96
19) trans-1,2-Dichloroethene	3.105	96	123601	115.290	ug/l	99
20) Diisopropyl ether	3.770	45	418693	110.725	ug/l	88
21) 1,1-Dichloroethane	3.623	63	235079	111.501	ug/l	99
22) cis-1,2-Dichloroethene	4.501	96	144888	112.946	ug/l	98
23) tert-Butyl Alcohol	2.959	59	68721	357.798	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	376330	110.087	ug/l	98
25) Chloroform	5.105	83	238920	116.259	ug/l	96
26) Cyclohexane	5.483	56	214840	110.715	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	171308	118.723	ug/l	99
30) 2-Butanone	4.562	43	386857	486.654	ug/l	99
31) 2,2-Dichloropropane	4.489	77	154777	98.837	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	213130	121.528	ug/l	98
33) Carbon Tetrachloride	5.684	117	188561	126.443	ug/l	98
34) Benzene	6.050	78	491901	110.370	ug/l	99
35) Methacrylonitrile	4.934	41	96674	111.916	ug/l	98
36) 1,2-Dichloroethane	6.099	62	184658	118.218	ug/l	99
37) Trichloroethene	7.129	130	121885	116.166	ug/l	88
38) Methylcyclohexane	7.385	83	224529	117.319	ug/l	96
39) 1,2-Dichloropropane	7.434	63	124027	112.304	ug/l	92
40) Dibromomethane	7.586	93	90996	113.559	ug/l	99
41) Bromodichloromethane	7.824	83	189762	118.021	ug/l #	97
42) Vinyl Acetate	3.733	43	1779960	576.121	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	167022m	109.638	ug/l	
44) Isopropyl Acetate	6.342	43	275162	110.657	ug/l	99
45) 1,4-Dioxane	7.659	88	32186	1342.301	ug/l #	91
46) Methyl methacrylate	7.696	41	144279	115.776	ug/l	97
47) n-amyl Acetate	10.842	43	242185	114.012	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	182939	119.607	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	199663	116.222	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	114954	111.187	ug/l	96
51) Ethyl methacrylate	9.116	69	186954	114.491	ug/l	98
52) 1,3-Dichloropropane	9.311	76	200619	110.446	ug/l	98
53) Dibromochloromethane	9.519	129	139959	120.833	ug/l	98
54) 1,2-Dibromoethane	9.610	107	120053	113.580	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	381595	453.061	ug/l	99
56) Bromoform	10.799	173	87839	120.198	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	802150	526.387	ug/l	99
59) 2-Hexanone	9.427	43	566900	515.756	ug/l	98
61) Tetrachloroethene	9.275	164	99513	117.346	ug/l	97
62) Toluene	8.720	91	523875	114.948	ug/l	100
64) Chlorobenzene	10.080	112	336208	118.833	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	114449	121.746	ug/l	99
66) Ethyl Benzene	10.195	91	597149	118.718	ug/l	99
67) m/p-Xylenes	10.299	106	439865	236.574	ug/l	98
68) o-Xylene	10.640	106	214100	117.814	ug/l	98
69) Styrene	10.653	104	366379	119.483	ug/l	99
70) Isopropylbenzene	10.964	105	566056	119.707	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	160113	104.414	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	136200m	107.666	ug/l	
73) Bromobenzene	11.195	156	131791	120.771	ug/l	98
74) n-propylbenzene	11.305	91	676405	119.463	ug/l	99
75) 2-Chlorotoluene	11.360	91	399989	117.375	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	463327	118.435	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	52534	122.099	ug/l	86
78) 4-Chlorotoluene	11.451	91	463836	120.673	ug/l	99
79) tert-butylbenzene	11.713	119	465227	118.339	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	462422	118.414	ug/l	99
81) sec-Butylbenzene	11.890	105	596540	120.205	ug/l	99
82) p-Isopropyltoluene	12.006	119	495558	122.693	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	242658	119.223	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	244059	120.762	ug/l	98
85) n-Butylbenzene	12.329	91	478218	127.471	ug/l	99
86) Hexachloroethane	12.536	117	87631	122.587	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	230502	115.987	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	35888	118.880	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	161569	130.735	ug/l	100
90) Hexachlorobutadiene	13.725	225	69903	137.656	ug/l	98
91) Naphthalene	13.774	128	521011	122.873	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	156655	124.892	ug/l	99

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

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