

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072825\
 Data File : VN087423.D
 Acq On : 28 Jul 2025 11:09
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Jul 28 11:32:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:25:23 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2025
 Supervised By : Mahesh Dadoda 07/29/2025

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

Internal Standards						
1) Bromochloromethane	7.806	128	85090	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	9.082	114	484226	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	438458	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	200988	28.641	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.467%		
60) 4-Bromofluorobenzene	12.829	95	217172	29.689	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.967%		
63) Toluene-d8	10.547	98	600918	30.137	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.467%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	887278	170.419	ug/l	90
3) Chloromethane	2.383	50	917274	177.375	ug/l	94
4) Vinyl Chloride	2.536	62	903850	158.586	ug/l	96
5) Bromomethane	2.953	94	451616	128.050	ug/l	89
6) Chloroethane	3.124	64	502218	114.657	ug/l	87
7) Trichlorofluoromethane	3.500	101	1152387	118.891	ug/l	95
8) Diethyl Ether	3.959	74	468638	121.460	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	616302	119.979	ug/l #	71
10) 1,1-Dichloroethene	4.330	96	635138	119.097	ug/l	88
11) Methyl Iodide	4.577	142	737654	189.617	ug/l	88
12) Methyl Acetate	5.018	43	1395036	201.113	ug/l	96
13) Acrolein	4.171	56	645858	512.154	ug/l	97
14) Acrylonitrile	5.712	53	2965994	936.295	ug/l	98
15) Acetone	4.418	58	628469	561.933	ug/l	98
16) Carbon Disulfide	4.700	76	2163606	157.095	ug/l	97
17) Allyl chloride	5.012	41	1477974	202.307	ug/l	89
18) Methylene Chloride	5.259	84	901829	167.088	ug/l	86
19) trans-1,2-Dichloroethene	5.771	96	853536	162.974	ug/l	91
20) Diisopropyl ether	6.659	45	3355459	181.635	ug/l	96
21) 1,1-Dichloroethane	6.553	63	1659372	168.172	ug/l	94
22) cis-1,2-Dichloroethene	7.471	96	1039103	169.384	ug/l	98
23) tert-Butyl Alcohol	5.530	59	1115332	1027.310	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	3133581	181.825	ug/l	99
25) Chloroform	7.953	83	1693639	156.721	ug/l	93
26) Cyclohexane	8.241	56	1515664	206.046	ug/l #	94
29) 1,1-Dichloropropene	8.353	75	1164864	140.999	ug/l	99
30) 2-Butanone	7.471	43	4192675	745.186	ug/l	99
31) 2,2-Dichloropropane	7.471	77	1417502	130.649	ug/l	97
32) 1,1,1-Trichloroethane	8.153	97	1407597	130.182	ug/l	99
33) Carbon Tetrachloride	8.347	117	1159544	123.445	ug/l	95
34) Benzene	8.588	78	3797675	142.331	ug/l	97
35) Methacrylonitrile	7.765	41	975762	164.918	ug/l	92
36) 1,2-Dichloroethane	8.653	62	1287860	122.349	ug/l	97
37) Trichloroethene	9.335	130	850471	139.670	ug/l	99
38) Methylcyclohexane	9.582	83	1459767	167.148	ug/l	97
39) 1,2-Dichloropropane	9.606	63	951754	141.986	ug/l	97
40) Dibromomethane	9.694	93	673138	129.796	ug/l	98
41) Bromodichloromethane	9.871	83	1385561	134.560	ug/l	91
42) Vinyl Acetate	6.594	43	13563324	711.638	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	1725978m	150.687	ug/l	
44) Isopropyl Acetate	8.677	43	2805264	155.138	ug/l	99
45) 1,4-Dioxane	9.682	88	338417	3037.633	ug/l #	53
46) Methyl methacrylate	9.665	41	1339708	160.887	ug/l	96
47) n-amyl Acetate	12.482	43	1803266	166.410	ug/l #	60
48) t-1,3-Dichloropropene	10.818	75	1593280	145.045	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	1644925	149.732	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	921075	137.520	ug/l	95
51) Ethyl methacrylate	10.859	69	1723847	168.305	ug/l	98
52) 1,3-Dichloropropane	11.141	76	1602154	139.125	ug/l	97
53) Dibromochloromethane	11.341	129	1069124	136.192	ug/l	100
54) 1,2-Dibromoethane	11.453	107	979971	142.742	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	2987223	524.274	ug/l	97
56) Bromoform	12.559	173	756099	135.423	ug/l	99
58) 4-Methyl-2-Pentanone	10.429	43	8049077	750.746	ug/l	99
59) 2-Hexanone	11.176	43	5903547	815.782	ug/l	98
61) Tetrachloroethene	11.082	164	690374	140.998	ug/l	91
62) Toluene	10.612	91	4106334	153.781	ug/l	97
64) Chlorobenzene	11.870	112	2523340	147.808	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.941	131	847400	135.830	ug/l	97
66) Ethyl Benzene	11.941	91	4462413	154.361	ug/l	96
67) m/p-Xylenes	12.053	106	3275723	286.328	ug/l	97
68) o-Xylene	12.376	106	1614502	147.118	ug/l	96
69) Styrene	12.388	104	2806625	146.993	ug/l	98
70) Isopropylbenzene	12.676	105	4192456	151.685	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	1427927	146.862	ug/l	96
72) 1,2,3-Trichloropropane	12.970	75	1301897m	149.882	ug/l	
73) Bromobenzene	12.959	156	965351	134.187	ug/l	90
74) n-propylbenzene	13.017	91	5155110	147.698	ug/l	99
75) 2-Chlorotoluene	13.106	91	3073937	146.634	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	3462485	144.023	ug/l	98
77) t-1,4-Dichloro-2-butene	12.717	75	607084	174.881	ug/l	86
78) 4-Chlorotoluene	13.200	91	3133622	140.158	ug/l	98
79) tert-butylbenzene	13.417	119	2945071	144.242	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	3355857	136.739	ug/l	96
81) sec-Butylbenzene	13.594	105	4372437	148.387	ug/l	99
82) p-Isopropyltoluene	13.706	119	3459843	136.804	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	1780579	122.841	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	1882449	131.573	ug/l	98
85) n-Butylbenzene	14.035	91	3588595	154.069	ug/l	97
86) Hexachloroethane	14.311	117	740407	150.446	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	1782463	130.608	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	329431	145.625	ug/l	97
89) 1,2,4-Trichlorobenzene	15.811	180	1118050	142.014	ug/l	98
90) Hexachlorobutadiene	15.476	225	406978	125.331	ug/l	97
91) Naphthalene	15.611	128	4255804	162.415	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	1118050	142.014	ug/l	98

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

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