

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072825\
 Data File : VN087422.D
 Acq On : 28 Jul 2025 10:48
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Jul 28 11:31:32 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	7.800	128	93523	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	531248	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	475412	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	218785	28.365	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.567%		
60) 4-Bromofluorobenzene	12.829	95	240070	30.268	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.900%		
63) Toluene-d8	10.547	98	662288	30.633	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.100%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	603788	105.512	ug/l	90
3) Chloromethane	2.383	50	615430	108.276	ug/l	96
4) Vinyl Chloride	2.542	62	625642	99.874	ug/l	93
5) Bromomethane	2.965	94	304379	78.521	ug/l	87
6) Chloroethane	3.130	64	349927	72.685	ug/l	90
7) Trichlorofluoromethane	3.506	101	793694	74.501	ug/l	97
8) Diethyl Ether	3.965	74	323135	76.198	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.359	101	425711	75.403	ug/l #	72
10) 1,1-Dichloroethene	4.330	96	433995	74.042	ug/l	94
11) Methyl Iodide	4.577	142	486244	113.720	ug/l	86
12) Methyl Acetate	5.018	43	954898	125.248	ug/l	97
13) Acrolein	4.171	56	350819	253.109	ug/l	99
14) Acrylonitrile	5.706	53	2077657	596.728	ug/l	98
15) Acetone	4.424	58	433944	353.016	ug/l	98
16) Carbon Disulfide	4.700	76	1496049	98.830	ug/l	98
17) Allyl chloride	5.006	41	1020490	127.090	ug/l	88
18) Methylene Chloride	5.265	84	626560	105.620	ug/l #	81
19) trans-1,2-Dichloroethene	5.771	96	587767	102.109	ug/l	88
20) Diisopropyl ether	6.659	45	2319645	114.243	ug/l	95
21) 1,1-Dichloroethane	6.553	63	1148735	105.923	ug/l	94
22) cis-1,2-Dichloroethene	7.471	96	728725	108.078	ug/l	99
23) tert-Butyl Alcohol	5.530	59	794923	666.166	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	2163043	114.193	ug/l	99
25) Chloroform	7.953	83	1163610	97.966	ug/l	96
26) Cyclohexane	8.241	56	1049726	129.837	ug/l #	94
29) 1,1-Dichloropropene	8.353	75	796788	87.909	ug/l	98
30) 2-Butanone	7.471	43	2959770	479.493	ug/l	99
31) 2,2-Dichloropropane	7.477	77	990895	83.246	ug/l	97
32) 1,1,1-Trichloroethane	8.153	97	964437	81.301	ug/l	99
33) Carbon Tetrachloride	8.347	117	794576	77.103	ug/l	94
34) Benzene	8.588	78	2625671	89.696	ug/l	97
35) Methacrylonitrile	7.765	41	680118	104.776	ug/l	91
36) 1,2-Dichloroethane	8.653	62	890375	77.100	ug/l	98
37) Trichloroethene	9.335	130	596307	89.261	ug/l	99
38) Methylcyclohexane	9.583	83	1019664	106.420	ug/l	96
39) 1,2-Dichloropropane	9.606	63	671411	91.298	ug/l	97
40) Dibromomethane	9.688	93	470115	82.625	ug/l	99
41) Bromodichloromethane	9.871	83	959081	84.898	ug/l	92
42) Vinyl Acetate	6.589	43	10436640	499.120	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	1162237	92.488	ug/l #	78
44) Isopropyl Acetate	8.677	43	1953669	98.479	ug/l	98
45) 1,4-Dioxane	9.683	88	241801	1978.299	ug/l #	54
46) Methyl methacrylate	9.665	41	923751	101.115	ug/l	96
47) n-amyl Acetate	12.488	43	1199467	100.892	ug/l #	60
48) t-1,3-Dichloropropene	10.818	75	1105256	91.712	ug/l	96
49) cis-1,3-Dichloropropene	10.294	75	1134330	94.115	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	643183	87.530	ug/l	95
51) Ethyl methacrylate	10.859	69	1207107	107.422	ug/l	98
52) 1,3-Dichloropropane	11.141	76	1110692	87.911	ug/l	98
53) Dibromochloromethane	11.341	129	745469	86.558	ug/l	100
54) 1,2-Dibromoethane	11.447	107	681098	90.427	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	1866727	298.623	ug/l	98
56) Bromoform	12.559	173	526675	85.982	ug/l	99
58) 4-Methyl-2-Pentanone	10.430	43	5769696	496.315	ug/l	99
59) 2-Hexanone	11.177	43	4208772	536.382	ug/l	97
61) Tetrachloroethene	11.082	164	480939	90.589	ug/l	91
62) Toluene	10.612	91	2874076	99.267	ug/l	97
64) Chlorobenzene	11.871	112	1767524	95.487	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	598213	88.434	ug/l	97
66) Ethyl Benzene	11.941	91	3135838	100.041	ug/l	97
67) m/p-Xylenes	12.047	106	2333824	188.141	ug/l	97
68) o-Xylene	12.376	106	1157058	97.239	ug/l	96
69) Styrene	12.388	104	1996219	96.422	ug/l	99
70) Isopropylbenzene	12.676	105	2987822	99.698	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	1016975	96.465	ug/l	97
72) 1,2,3-Trichloropropane	12.971	75	948444m	100.703	ug/l	
73) Bromobenzene	12.959	156	693347	88.886	ug/l	92
74) n-propylbenzene	13.012	91	3660066	96.712	ug/l	99
75) 2-Chlorotoluene	13.106	91	2172105	95.561	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	2455832	94.211	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	426691	113.362	ug/l	90
78) 4-Chlorotoluene	13.200	91	2224958	91.781	ug/l	97
79) tert-butylbenzene	13.418	119	2120750	95.795	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	2422023	91.018	ug/l	96
81) sec-Butylbenzene	13.594	105	3123183	97.752	ug/l	99
82) p-Isopropyltoluene	13.706	119	2517193	91.795	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	1288719	81.997	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	1337394	86.211	ug/l	99
85) n-Butylbenzene	14.035	91	2548236	100.899	ug/l	97
86) Hexachloroethane	14.312	117	517454	96.970	ug/l	95
87) 1,2-Dichlorobenzene	14.082	146	1276183	86.242	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	227882	92.905	ug/l	97
89) 1,2,4-Trichlorobenzene	15.812	180	774171	90.691	ug/l	98
90) Hexachlorobutadiene	15.476	225	293149	83.260	ug/l	99
91) Naphthalene	15.612	128	2960118	104.186	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	774171	90.691	ug/l	98

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

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