

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087317.D
 Acq On : 10 Jul 2025 11:16
 Operator : JC\MD
 Sample : VN0710WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0710WBS01

Quant Time: Jul 11 01:07:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/11/2025
 Supervised By : Mahesh Dadoda 07/14/2025

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

Internal Standards						
1) Bromochloromethane	7.824	128	44567	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	228909	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	216531	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	92633	27.587	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.967%		
60) 4-Bromofluorobenzene	12.847	95	102398	30.646	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.167%		
63) Toluene-d8	10.571	98	286529	29.472	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.233%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	43577	16.243	ug/l	96
3) Chloromethane	2.401	50	36610	13.361	ug/l	95
4) Vinyl Chloride	2.554	62	43969	14.764	ug/l	96
5) Bromomethane	2.995	94	39190	24.796	ug/l	97
6) Chloroethane	3.154	64	36026	22.551	ug/l	94
7) Trichlorofluoromethane	3.530	101	72649	19.888	ug/l	91
8) Diethyl Ether	3.983	74	26018	14.497	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.401	101	46315	17.101	ug/l #	88
10) 1,1-Dichloroethene	4.371	96	42967	15.916	ug/l	88
11) Methyl Iodide	4.612	142	47066	19.460	ug/l	87
12) Methyl Acetate	5.036	43	59745	14.109	ug/l	94
13) Acrolein	4.201	56	67771	104.152	ug/l	98
14) Acrylonitrile	5.736	53	132992	67.330	ug/l	99
15) Acetone	4.442	58	45904	79.671	ug/l	93
16) Carbon Disulfide	4.736	76	108774	13.780	ug/l	100
17) Allyl chloride	5.054	41	54966	12.344	ug/l	93
18) Methylene Chloride	5.301	84	51589	16.495	ug/l	88
19) trans-1,2-Dichloroethene	5.806	96	48114	16.297	ug/l	92
20) Diisopropyl ether	6.689	45	125943	13.331	ug/l #	97
21) 1,1-Dichloroethane	6.589	63	85912	15.216	ug/l	98
22) cis-1,2-Dichloroethene	7.500	96	58139	16.920	ug/l	91
23) tert-Butyl Alcohol	5.536	59	52702	70.947	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	151453	15.996	ug/l	99
25) Chloroform	7.971	83	97171	17.963	ug/l	95
26) Cyclohexane	8.271	56	60030	12.790	ug/l #	88
29) 1,1-Dichloropropene	8.383	75	59144	16.577	ug/l	93
30) 2-Butanone	7.489	43	183880	76.402	ug/l	93
31) 2,2-Dichloropropane	7.500	77	84366	19.589	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	85453	20.501	ug/l	97
33) Carbon Tetrachloride	8.371	117	75644	21.565	ug/l	97
34) Benzene	8.612	78	196655	17.398	ug/l	96
35) Methacrylonitrile	7.783	41	33622	13.862	ug/l	94
36) 1,2-Dichloroethane	8.677	62	69238	18.959	ug/l	98
37) Trichloroethene	9.353	130	51472	19.743	ug/l	84
38) Methylcyclohexane	9.606	83	65722	16.054	ug/l	94
39) 1,2-Dichloropropane	9.624	63	46064	16.237	ug/l	95
40) Dibromomethane	9.712	93	39073	20.255	ug/l	97
41) Bromodichloromethane	9.888	83	76390	19.618	ug/l	97
42) Vinyl Acetate	6.618	43	559364	71.458	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	63729	14.668	ug/l	95
44) Isopropyl Acetate	8.694	43	106403	15.031	ug/l	93
45) 1,4-Dioxane	9.706	88	17854	372.856	ug/l	87
46) Methyl methacrylate	9.688	41	45783	13.913	ug/l	93
47) n-amyl Acetate	12.541	43	66473m	15.359	ug/l	
48) t-1,3-Dichloropropene	10.835	75	75525	17.399	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	79726	17.277	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	51568	18.818	ug/l	97
51) Ethyl methacrylate	10.883	69	64033	15.353	ug/l	89
52) 1,3-Dichloropropane	11.165	76	84603	17.983	ug/l	100
53) Dibromochloromethane	11.359	129	60422	21.005	ug/l	100
54) 1,2-Dibromoethane	11.471	107	55248	19.542	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	158012	66.094	ug/l	94
56) Bromoform	12.577	173	41253	20.862	ug/l #	99
58) 4-Methyl-2-Pentanone	10.447	43	314125	72.162	ug/l #	94
59) 2-Hexanone	11.206	43	190995	67.948	ug/l	97
61) Tetrachloroethene	11.106	164	42345	19.748	ug/l	98
62) Toluene	10.630	91	222388	18.185	ug/l	100
64) Chlorobenzene	11.894	112	150496	19.292	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	54599	21.183	ug/l	98
66) Ethyl Benzene	11.965	91	239575	17.898	ug/l	93
67) m/p-Xylenes	12.071	106	197128	38.431	ug/l	95
68) o-Xylene	12.400	106	90109	18.413	ug/l	97
69) Styrene	12.412	104	155538	18.513	ug/l	99
70) Isopropylbenzene	12.694	105	236446	19.400	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	81718	18.628	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	81192m	21.462	ug/l	
73) Bromobenzene	12.982	156	59653	20.177	ug/l	88
74) n-propylbenzene	13.035	91	283072	19.012	ug/l	95
75) 2-Chlorotoluene	13.124	91	170964	19.005	ug/l	91
76) 1,3,5-Trimethylbenzene	13.171	105	198006	19.957	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	27358	16.303	ug/l	99
78) 4-Chlorotoluene	13.218	91	178513	19.376	ug/l	93
79) tert-butylbenzene	13.435	119	172022	20.626	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	200752	20.149	ug/l	100
81) sec-Butylbenzene	13.612	105	244608	20.176	ug/l	98
82) p-Isopropyltoluene	13.724	119	210330	20.846	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	124627	21.891	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	122230	21.332	ug/l	98
85) n-Butylbenzene	14.053	91	177875	19.323	ug/l	97
86) Hexachloroethane	14.329	117	40482	21.196	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	116209	21.648	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.718	75	18912	19.145	ug/l	89
89) 1,2,4-Trichlorobenzene	15.835	180	59688	19.653	ug/l	96
90) Hexachlorobutadiene	15.494	225	17215	19.102	ug/l	94
91) Naphthalene	15.635	128	223133	18.668	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	59688	19.653	ug/l	96

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

