

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
 Data File : VN087812.D
 Acq On : 12 Sep 2025 10:45
 Operator : JC\MD
 Sample : VN0912WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0912WBS01

Quant Time: Sep 12 22:50:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/15/2025
 Supervised By :Mahesh Dadoda 09/15/2025

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

Internal Standards						
1) Bromochloromethane	7.794	128	57185	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	292500	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	270542	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	142666	29.205	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.367%		
60) 4-Bromofluorobenzene	12.829	95	131180	30.156	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.533%		
63) Toluene-d8	10.547	98	379086	30.130	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.433%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	68525	19.281	ug/l	93
3) Chloromethane	2.383	50	66319	17.775	ug/l	99
4) Vinyl Chloride	2.536	62	77219	18.309	ug/l	93
5) Bromomethane	2.977	94	36008	14.553	ug/l	98
6) Chloroethane	3.142	64	49067	17.022	ug/l	89
7) Trichlorofluoromethane	3.512	101	114377	18.502	ug/l	94
8) Diethyl Ether	3.965	74	47598	18.233	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	60508	18.070	ug/l	75
10) 1,1-Dichloroethene	4.336	96	61911	17.934	ug/l	92
11) Methyl Iodide	4.583	142	31164	12.753	ug/l	89
12) Methyl Acetate	5.018	43	100951	18.970	ug/l	100
13) Acrolein	4.177	56	94404m	99.634	ug/l	
14) Acrylonitrile	5.706	53	205534	89.730	ug/l	96
15) Acetone	4.412	58	64278	89.954	ug/l	99
16) Carbon Disulfide	4.706	76	176078	18.577	ug/l #	94
17) Allyl chloride	5.006	41	96885m	17.182	ug/l	
18) Methylene Chloride	5.265	84	72783	18.612	ug/l #	83
19) trans-1,2-Dichloroethene	5.765	96	66391m	18.857	ug/l	
20) Diisopropyl ether	6.659	45	236619	18.248	ug/l	96
21) 1,1-Dichloroethane	6.553	63	129360	18.218	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	79877	18.691	ug/l	99
23) tert-Butyl Alcohol	5.518	59	75562	93.319	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	222475	18.051	ug/l	96
25) Chloroform	7.947	83	139386	18.753	ug/l	97
26) Cyclohexane	8.236	56	98502	18.216	ug/l #	98
29) 1,1-Dichloropropene	8.347	75	85838	18.057	ug/l	98
30) 2-Butanone	7.471	43	301425	92.048	ug/l	98
31) 2,2-Dichloropropane	7.471	77	113380	19.786	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	115554	19.174	ug/l	97
33) Carbon Tetrachloride	8.347	117	93017	18.511	ug/l	98
34) Benzene	8.588	78	287923	18.741	ug/l	94
35) Methacrylonitrile	7.759	41	59654	17.416	ug/l	94
36) 1,2-Dichloroethane	8.653	62	107653	18.551	ug/l	99
37) Trichloroethene	9.330	130	65834	19.169	ug/l	95
38) Methylcyclohexane	9.583	83	95792	18.301	ug/l	100
39) 1,2-Dichloropropane	9.600	63	76239	19.375	ug/l	90
40) Dibromomethane	9.688	93	55819	19.062	ug/l	98
41) Bromodichloromethane	9.871	83	111252	18.588	ug/l	96
42) Vinyl Acetate	6.589	43	954834	87.269	ug/l #	88

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	111964	16.735	ug/l	95
44) Isopropyl Acetate	8.677	43	184704	17.610	ug/l	99
45) 1,4-Dioxane	9.682	88	28270	427.401	ug/l	95
46) Methyl methacrylate	9.665	41	78219	16.180	ug/l	93
47) n-amyl Acetate	12.559	43	106600m	15.040	ug/l	
48) t-1,3-Dichloropropene	10.818	75	114574	18.431	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	116952	18.368	ug/l	99
50) 1,1,2-Trichloroethane	11.000	97	71792	18.982	ug/l	91
51) Ethyl methacrylate	10.859	69	103683	17.615	ug/l	95
52) 1,3-Dichloropropane	11.141	76	121807	18.546	ug/l	99
53) Dibromochloromethane	11.335	129	78785	18.578	ug/l	94
54) 1,2-Dibromoethane	11.447	107	76056	19.325	ug/l	96
55) 2-Chloroethyl vinyl ether	10.141	63	296598	87.946	ug/l	97
56) Bromoform	12.559	173	50966	18.403	ug/l	96
58) 4-Methyl-2-Pentanone	10.424	43	587680	91.869	ug/l	99
59) 2-Hexanone	11.177	43	377128	90.222	ug/l	100
61) Tetrachloroethene	11.077	164	53216	19.756	ug/l	96
62) Toluene	10.606	91	304912	18.633	ug/l	99
64) Chlorobenzene	11.871	112	197108	19.625	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.941	131	69598	19.682	ug/l	95
66) Ethyl Benzene	11.941	91	325835	18.456	ug/l	96
67) m/p-Xylenes	12.047	106	250453	38.217	ug/l	91
68) o-Xylene	12.376	106	120873	19.023	ug/l	98
69) Styrene	12.388	104	200413	18.147	ug/l	100
70) Isopropylbenzene	12.676	105	301954	18.741	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	111961	19.330	ug/l	99
72) 1,2,3-Trichloropropane	12.971	75	105113m	18.483	ug/l	
73) Bromobenzene	12.959	156	74414	18.878	ug/l	93
74) n-propylbenzene	13.012	91	382795	18.830	ug/l	98
75) 2-Chlorotoluene	13.106	91	231074	18.886	ug/l	95
76) 1,3,5-Trimethylbenzene	13.153	105	256966	18.887	ug/l	98
77) t-1,4-Dichloro-2-butene	12.723	75	30952	16.125	ug/l	87
78) 4-Chlorotoluene	13.200	91	243017	19.702	ug/l	96
79) tert-butylbenzene	13.418	119	217008	19.045	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	260652	18.686	ug/l	97
81) sec-Butylbenzene	13.594	105	326802	19.499	ug/l	97
82) p-Isopropyltoluene	13.706	119	268047	19.411	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	154834	20.374	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	150160	19.713	ug/l	99
85) n-Butylbenzene	14.035	91	260262	19.608	ug/l	99
86) Hexachloroethane	14.306	117	53576	19.101	ug/l	98
87) 1,2-Dichlorobenzene	14.082	146	143217	19.982	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.700	75	24731	19.240	ug/l	93
89) 1,2,4-Trichlorobenzene	15.812	180	80060	19.639	ug/l	97
90) Hexachlorobutadiene	15.476	225	32228	23.582	ug/l	95
91) Naphthalene	15.612	128	275220	18.338	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	80060	19.639	ug/l	97

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

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