

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087870.D
 Acq On : 17 Sep 2025 10:55
 Operator : JC\MD
 Sample : VN0917WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0917WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/18/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 18 03:07:19 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

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

Internal Standards						
1) Bromochloromethane	7.794	128	53476	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	296032	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	268776	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	137020	29.995	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.000%			
60) 4-Bromofluorobenzene	12.829	95	131390	30.402	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.333%			
63) Toluene-d8	10.541	98	372539	29.804	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	67104	20.190	ug/l	98
3) Chloromethane	2.383	50	58286	16.706	ug/l	98
4) Vinyl Chloride	2.536	62	66773	16.930	ug/l	99
5) Bromomethane	2.977	94	34766	15.026	ug/l	97
6) Chloroethane	3.136	64	42585	15.798	ug/l #	78
7) Trichlorofluoromethane	3.512	101	105691	18.282	ug/l	90
8) Diethyl Ether	3.965	74	41183	16.870	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.377	101	60935m	19.460	ug/l	
10) 1,1-Dichloroethene	4.336	96	58764	18.203	ug/l	88
11) Methyl Iodide	4.583	142	37791	16.537	ug/l	82
12) Methyl Acetate	5.012	43	103303	20.758	ug/l	96
13) Acrolein	4.177	56	106235m	119.897	ug/l	
14) Acrylonitrile	5.706	53	211139	98.570	ug/l	99
15) Acetone	4.424	58	61711	92.351	ug/l	97
16) Carbon Disulfide	4.700	76	156918	17.704	ug/l #	91
17) Allyl chloride	5.006	41	103203	19.572	ug/l	95
18) Methylene Chloride	5.259	84	72176m	19.737	ug/l	
19) trans-1,2-Dichloroethene	5.771	96	66956	20.336	ug/l	97
20) Diisopropyl ether	6.653	45	227741	18.782	ug/l	98
21) 1,1-Dichloroethane	6.553	63	131509	19.805	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	80456	20.132	ug/l	96
23) tert-Butyl Alcohol	5.512	59	76053	100.440	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	236800	20.546	ug/l	100
25) Chloroform	7.947	83	139613	20.087	ug/l	94
26) Cyclohexane	8.241	56	103429	20.453	ug/l #	98
29) 1,1-Dichloropropene	8.359	75	91361	18.990	ug/l	97
30) 2-Butanone	7.465	43	314577	94.918	ug/l	99
31) 2,2-Dichloropropane	7.471	77	120804	20.830	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	120694	19.788	ug/l	99
33) Carbon Tetrachloride	8.347	117	99548	19.574	ug/l	97
34) Benzene	8.588	78	291758	18.764	ug/l	97
35) Methacrylonitrile	7.759	41	64671	18.655	ug/l	95
36) 1,2-Dichloroethane	8.653	62	109196	18.592	ug/l	100
37) Trichloroethene	9.335	130	70049	20.153	ug/l	91
38) Methylcyclohexane	9.576	83	102865	19.418	ug/l	98
39) 1,2-Dichloropropane	9.606	63	75122	18.863	ug/l	99
40) Dibromomethane	9.688	93	54595	18.421	ug/l	95
41) Bromodichloromethane	9.871	83	114152	18.845	ug/l	97
42) Vinyl Acetate	6.588	43	948262	85.635	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	119327	17.623	ug/l	95
44) Isopropyl Acetate	8.671	43	190975	17.991	ug/l	97
45) 1,4-Dioxane	9.682	88	25037	374.007	ug/l #	69
46) Methyl methacrylate	9.665	41	82471	16.855	ug/l	92
47) n-amyl Acetate	12.559	43	102030m	14.223	ug/l	
48) t-1,3-Dichloropropene	10.818	75	116022	18.442	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	118981	18.464	ug/l	91
50) 1,1,2-Trichloroethane	11.000	97	72265	18.879	ug/l	94
51) Ethyl methacrylate	10.853	69	106318	17.847	ug/l	97
52) 1,3-Dichloropropane	11.141	76	127768	19.222	ug/l	99
53) Dibromochloromethane	11.335	129	85737	19.976	ug/l	92
54) 1,2-Dibromoethane	11.447	107	75101	18.855	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	286029	83.801	ug/l	97
56) Bromoform	12.559	173	56526	20.167	ug/l	97
58) 4-Methyl-2-Pentanone	10.423	43	600838	94.543	ug/l	98
59) 2-Hexanone	11.176	43	383551	92.361	ug/l	96
61) Tetrachloroethene	11.082	164	60444	22.587	ug/l	91
62) Toluene	10.606	91	318841	19.612	ug/l	99
64) Chlorobenzene	11.870	112	206408	20.686	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.941	131	72178	20.546	ug/l	96
66) Ethyl Benzene	11.941	91	353748	20.169	ug/l	91
67) m/p-Xylenes	12.047	106	265828	40.829	ug/l	92
68) o-Xylene	12.376	106	127272	20.161	ug/l	99
69) Styrene	12.394	104	213549	19.464	ug/l	98
70) Isopropylbenzene	12.676	105	337517	21.086	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	114652	19.925	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	111015m	19.649	ug/l	
73) Bromobenzene	12.959	156	80238	20.489	ug/l	92
74) n-propylbenzene	13.012	91	418506	20.722	ug/l	98
75) 2-Chlorotoluene	13.106	91	246028	20.240	ug/l	96
76) 1,3,5-Trimethylbenzene	13.153	105	279014	20.642	ug/l	96
77) t-1,4-Dichloro-2-butene	12.723	75	36499	19.139	ug/l	99
78) 4-Chlorotoluene	13.200	91	248882	20.310	ug/l	98
79) tert-butylbenzene	13.417	119	246851	21.807	ug/l	95
80) 1,2,4-Trimethylbenzene	13.459	105	280072	20.211	ug/l	96
81) sec-Butylbenzene	13.594	105	357039	21.444	ug/l	96
82) p-Isopropyltoluene	13.706	119	303705	22.138	ug/l	98
83) 1,3-Dichlorobenzene	13.711	146	162789	21.562	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	164451	21.731	ug/l	99
85) n-Butylbenzene	14.035	91	290663	22.042	ug/l	99
86) Hexachloroethane	14.306	117	58197	20.885	ug/l	93
87) 1,2-Dichlorobenzene	14.082	146	154091	21.640	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	25535	19.996	ug/l	88
89) 1,2,4-Trichlorobenzene	15.811	180	88968	21.968	ug/l	98
90) Hexachlorobutadiene	15.476	225	36715	27.042	ug/l	93
91) Naphthalene	15.617	128	303214	20.336	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	88968	21.968	ug/l	98

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

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