

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087731.D
 Acq On : 04 Sep 2025 18:28
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN090425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 03:32:36 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	7.800	128	45925	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	235644	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	221185	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	118609	30.234	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.767%			
60) 4-Bromofluorobenzene	12.829	95	103848	29.200	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.333%			
63) Toluene-d8	10.547	98	305314	29.682	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.933%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.148	85	52434	18.370	ug/l	100
3) Chloromethane	2.383	50	54083	18.050	ug/l	91
4) Vinyl Chloride	2.536	62	59288	17.504	ug/l	99
5) Bromomethane	2.989	94	35460	17.846	ug/l	95
6) Chloroethane	3.136	64	39572	17.094	ug/l #	77
7) Trichlorofluoromethane	3.512	101	85267	17.175	ug/l	86
8) Diethyl Ether	3.959	74	36966	17.632	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	46222	17.189	ug/l	97
10) 1,1-Dichloroethene	4.342	96	48502	17.494	ug/l #	89
11) Methyl Iodide	4.594	142	29628m	15.097	ug/l	
12) Methyl Acetate	5.012	43	78049	18.262	ug/l	98
13) Acrolein	4.177	56	69346m	91.132	ug/l	
14) Acrylonitrile	5.712	53	162624	88.404	ug/l	99
15) Acetone	4.424	58	48575	84.645	ug/l	81
16) Carbon Disulfide	4.712	76	136485	17.930	ug/l #	94
17) Allyl chloride	5.012	41	77276	17.065	ug/l	94
18) Methylene Chloride	5.265	84	55915	17.804	ug/l	89
19) trans-1,2-Dichloroethene	5.777	96	49711	17.581	ug/l	93
20) Diisopropyl ether	6.653	45	173212	16.633	ug/l #	99
21) 1,1-Dichloroethane	6.553	63	100521	17.627	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	59360	17.296	ug/l	95
23) tert-Butyl Alcohol	5.518	59	58538	90.020	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	171206	17.297	ug/l #	83
25) Chloroform	7.947	83	103557	17.349	ug/l	94
26) Cyclohexane	8.235	56	75387	17.359	ug/l #	100
29) 1,1-Dichloropropene	8.347	75	65482	17.099	ug/l	99
30) 2-Butanone	7.471	43	231480	87.744	ug/l	97
31) 2,2-Dichloropropane	7.477	77	78485	17.001	ug/l #	78
32) 1,1,1-Trichloroethane	8.153	97	85693	17.650	ug/l	98
33) Carbon Tetrachloride	8.347	117	69645	17.204	ug/l #	93
34) Benzene	8.588	78	218694	17.669	ug/l	93
35) Methacrylonitrile	7.765	41	51135	18.531	ug/l	93
36) 1,2-Dichloroethane	8.653	62	82106	17.562	ug/l	99
37) Trichloroethene	9.341	130	45924	16.598	ug/l	92
38) Methylcyclohexane	9.582	83	70612	16.745	ug/l	99
39) 1,2-Dichloropropane	9.600	63	54676	17.248	ug/l #	83
40) Dibromomethane	9.682	93	42325	17.941	ug/l	97
41) Bromodichloromethane	9.871	83	83672	17.353	ug/l #	85
42) Vinyl Acetate	6.594	43	777536	88.211	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	93344	17.318	ug/l	98
44) Isopropyl Acetate	8.671	43	147433	17.448	ug/l	98
45) 1,4-Dioxane	9.682	88	18809	352.976	ug/l #	53
46) Methyl methacrylate	9.665	41	67807	17.410	ug/l	93
47) n-amyl Acetate	12.570	43	86602m	15.166	ug/l	
48) t-1,3-Dichloropropene	10.818	75	85569	17.087	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	88428	17.239	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	53774	17.648	ug/l	89
51) Ethyl methacrylate	10.853	69	82131	17.320	ug/l	94
52) 1,3-Dichloropropane	11.141	76	93581	17.687	ug/l	100
53) Dibromochloromethane	11.335	129	59265	17.347	ug/l	92
54) 1,2-Dibromoethane	11.447	107	54662	17.241	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	233941	86.104	ug/l	99
56) Bromoform	12.559	173	39062	17.508	ug/l	96
58) 4-Methyl-2-Pentanone	10.424	43	460953	88.138	ug/l	99
59) 2-Hexanone	11.182	43	291153	85.197	ug/l	98
61) Tetrachloroethene	11.082	164	38600	17.528	ug/l	95
62) Toluene	10.612	91	238533	17.829	ug/l	98
64) Chlorobenzene	11.870	112	142733	17.382	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.935	131	49466	17.110	ug/l	97
66) Ethyl Benzene	11.941	91	250582	17.361	ug/l	93
67) m/p-Xylenes	12.047	106	185180	34.562	ug/l	95
68) o-Xylene	12.376	106	90271	17.377	ug/l	98
69) Styrene	12.394	104	151670	16.798	ug/l	98
70) Isopropylbenzene	12.670	105	224221	17.022	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.912	83	83832	17.703	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	79021m	16.995	ug/l	
73) Bromobenzene	12.959	156	55283	17.154	ug/l	96
74) n-propylbenzene	13.012	91	284881	17.141	ug/l	99
75) 2-Chlorotoluene	13.106	91	171781	17.173	ug/l	96
76) 1,3,5-Trimethylbenzene	13.153	105	193466	17.393	ug/l	97
77) t-1,4-Dichloro-2-butene	12.717	75	23921	15.243	ug/l	75
78) 4-Chlorotoluene	13.200	91	184349	18.280	ug/l	96
79) tert-butylbenzene	13.412	119	162429	17.436	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	195624	17.154	ug/l	98
81) sec-Butylbenzene	13.594	105	238215	17.385	ug/l	98
82) p-Isopropyltoluene	13.706	119	195729	17.337	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	106089	17.075	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	107657	17.287	ug/l	98
85) n-Butylbenzene	14.035	91	188710	17.390	ug/l	98
86) Hexachloroethane	14.312	117	41219	17.975	ug/l	99
87) 1,2-Dichlorobenzene	14.082	146	105569	18.016	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.694	75	19130	18.204	ug/l	96
89) 1,2,4-Trichlorobenzene	15.811	180	58341	17.505	ug/l	98
90) Hexachlorobutadiene	15.470	225	20419	18.275	ug/l	95
91) Naphthalene	15.617	128	208469	16.990	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	58341	17.505	ug/l	98

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

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