

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112625\
 Data File : VN088366.D
 Acq On : 26 Nov 2025 11:09
 Operator : JC\MD
 Sample : Q3530-09 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2025

Quant Time: Nov 27 00:10:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/01/2025
 Supervised By :Semsettin Yesilyurt 12/01/2025

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

Internal Standards						
1) Bromochloromethane	7.794	128	49653	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	260835	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	235255	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	134113	29.570	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.567%		
60) 4-Bromofluorobenzene	12.829	95	101742	25.583	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	85.267%		
63) Toluene-d8	10.547	98	338656	30.406	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.367%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	5925	1.698	ug/l	97
3) Chloromethane	2.389	50	9028	2.509	ug/l	100
4) Vinyl Chloride	2.536	62	8361	2.197	ug/l	98
5) Bromomethane	2.983	94	5022	2.475	ug/l	97
6) Chloroethane	3.136	64	5328	2.265	ug/l	97
7) Trichlorofluoromethane	3.506	101	12307m	2.307	ug/l	
8) Diethyl Ether	3.965	74	4941	2.478	ug/l	65
9) 1,1,2-Trichlorotrifluo...	4.383	101	6339m	2.265	ug/l	
10) 1,1-Dichloroethene	4.348	96	6262	2.293	ug/l	89
11) Methyl Iodide	4.595	142	6236m	2.146	ug/l	
12) Methyl Acetate	5.018	43	10884	2.471	ug/l	90
13) Acrolein	4.177	56	9727m	15.009	ug/l	
14) Acrylonitrile	5.700	53	25211m	12.596	ug/l	
15) Acetone	4.424	58	5241m	8.954	ug/l	
16) Carbon Disulfide	4.706	76	21518	2.337	ug/l	96
17) Allyl chloride	5.012	41	12178m	2.295	ug/l	
18) Methylene Chloride	5.271	84	9285	2.736	ug/l #	80
19) trans-1,2-Dichloroethene	5.789	96	8171m	2.570	ug/l	
20) Diisopropyl ether	6.665	45	24903m	2.196	ug/l	
21) 1,1-Dichloroethane	6.553	63	16121	2.524	ug/l #	91
22) cis-1,2-Dichloroethene	7.471	96	8628	2.335	ug/l #	87
23) tert-Butyl Alcohol	5.512	59	8203m	11.146	ug/l	
24) Methyl tert-Butyl Ether	5.771	73	23848m	2.166	ug/l	
25) Chloroform	7.941	83	16406m	2.592	ug/l	
26) Cyclohexane	8.241	56	10454	1.938	ug/l #	90
29) 1,1-Dichloropropene	8.353	75	9321	2.142	ug/l	70
30) 2-Butanone	7.471	43	25344	9.002	ug/l #	74
31) 2,2-Dichloropropane	7.477	77	12830	2.390	ug/l	95
32) 1,1,1-Trichloroethane	8.153	97	11818	2.203	ug/l	96
33) Carbon Tetrachloride	8.347	117	10261	2.240	ug/l	89
34) Benzene	8.588	78	32004	2.460	ug/l #	72
35) Methacrylonitrile	7.771	41	6940m	2.363	ug/l	
36) 1,2-Dichloroethane	8.653	62	11898	2.350	ug/l	98
37) Trichloroethene	9.336	130	7738	2.625	ug/l #	74
38) Methylcyclohexane	9.583	83	9758	1.956	ug/l	97
39) 1,2-Dichloropropane	9.600	63	7662	2.283	ug/l	97
40) Dibromomethane	9.694	93	6561	2.721	ug/l	98
41) Bromodichloromethane	9.865	83	11692	2.409	ug/l	94
42) Vinyl Acetate	6.589	43	94054	10.010	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	14463m	2.553	ug/l	
44) Isopropyl Acetate	8.671	43	20651	2.366	ug/l #	79
45) 1,4-Dioxane	9.688	88	2388m	45.427	ug/l	
46) Methyl methacrylate	9.659	41	8133m	1.991	ug/l	
47) n-amyl Acetate	12.682	43	13388m	3.027	ug/l	
48) t-1,3-Dichloropropene	10.824	75	11395	2.195	ug/l #	88
49) cis-1,3-Dichloropropene	10.294	75	12425	2.300	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	7085	2.376	ug/l #	87
51) Ethyl methacrylate	10.865	69	9409m	1.918	ug/l	
52) 1,3-Dichloropropane	11.141	76	12837	2.364	ug/l	93
53) Dibromochloromethane	11.341	129	7675	2.241	ug/l	91
54) 1,2-Dibromoethane	11.447	107	7280	2.350	ug/l	96
55) 2-Chloroethyl vinyl ether	10.147	63	30665	10.851	ug/l	95
56) Bromoform	12.565	173	4815	2.221	ug/l #	91
58) 4-Methyl-2-Pentanone	10.424	43	60798	11.426	ug/l	95
59) 2-Hexanone	11.182	43	21863	6.188	ug/l #	84
61) Tetrachloroethene	11.088	164	6969	2.873	ug/l	99
62) Toluene	10.606	91	32992	2.444	ug/l	99
64) Chlorobenzene	11.871	112	19138	2.289	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	6787	2.372	ug/l	92
66) Ethyl Benzene	11.941	91	31871	2.142	ug/l	98
67) m/p-Xylenes	12.053	106	22487	4.041	ug/l	91
68) o-Xylene	12.376	106	10523	2.005	ug/l	99
69) Styrene	12.394	104	15304	1.717	ug/l	93
70) Isopropylbenzene	12.676	105	25931	1.864	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.924	83	9899	2.197	ug/l #	97
72) 1,2,3-Trichloropropane	12.971	75	10460m	2.396	ug/l	
73) Bromobenzene	12.965	156	6536	2.081	ug/l	55
74) n-propylbenzene	13.018	91	33404	1.940	ug/l	97
75) 2-Chlorotoluene	13.112	91	21826	2.085	ug/l	96
76) 1,3,5-Trimethylbenzene	13.153	105	22722	1.946	ug/l	96
77) t-1,4-Dichloro-2-butene	12.724	75	3198m	2.133	ug/l	
78) 4-Chlorotoluene	13.206	91	21792	2.054	ug/l	99
79) tert-butylbenzene	13.418	119	17764	1.777	ug/l	92
80) 1,2,4-Trimethylbenzene	13.459	105	21109	1.818	ug/l	97
81) sec-Butylbenzene	13.594	105	26558	1.821	ug/l	96
82) p-Isopropyltoluene	13.712	119	21402	1.776	ug/l	99
83) 1,3-Dichlorobenzene	13.718	146	13124	2.151	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	13751	2.225	ug/l	93
85) n-Butylbenzene	14.035	91	19668	1.713	ug/l	100
86) Hexachloroethane	14.306	117	4347	1.884	ug/l	97
87) 1,2-Dichlorobenzene	14.088	146	13053	2.266	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.700	75	2291m	2.163	ug/l	
89) 1,2,4-Trichlorobenzene	15.817	180	7166	2.217	ug/l	92
90) Hexachlorobutadiene	15.476	225	2851	2.272	ug/l	95
91) Naphthalene	15.617	128	20997	1.796	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.817	180	7166	2.217	ug/l	92

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

Manual Integrations

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