

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088042.D
 Acq On : 08 Oct 2025 15:41
 Operator : JC\MD
 Sample : Q2893-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2025

Quant Time: Oct 09 02:57:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

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

Internal Standards						
1) Bromochloromethane	7.800	128	67162	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	359377	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	317948	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	153036	29.262	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.533%
60) 4-Bromofluorobenzene	12.829	95	150864	28.782	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.933%
63) Toluene-d8	10.541	98	431885	30.488	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.633%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	7522	1.955	ug/l	95
3) Chloromethane	2.383	50	10267	2.354	ug/l #	82
4) Vinyl Chloride	2.542	62	10685	2.350	ug/l	99
5) Bromomethane	2.989	94	8436	3.450	ug/l	100
6) Chloroethane	3.142	64	6889	2.297	ug/l	97
7) Trichlorofluoromethane	3.506	101	14418	2.332	ug/l	92
8) Diethyl Ether	3.965	74	6765	2.421	ug/l	60
9) 1,1,2-Trichlorotrifluo...	4.359	101	7705m	2.328	ug/l	
10) 1,1-Dichloroethene	4.336	96	8741	2.475	ug/l #	82
11) Methyl Iodide	4.588	142	4704m	1.445	ug/l	
12) Methyl Acetate	5.018	43	17008m	2.963	ug/l	
13) Acrolein	4.189	56	12205m	13.738	ug/l	
14) Acrylonitrile	5.712	53	31721	11.450	ug/l #	85
15) Acetone	4.424	58	9798	12.076	ug/l	85
16) Carbon Disulfide	4.700	76	26238	2.370	ug/l #	93
17) Allyl chloride	5.012	41	18142m	2.723	ug/l	
18) Methylene Chloride	5.265	84	12480	2.781	ug/l #	85
19) trans-1,2-Dichloroethene	5.777	96	10513	2.575	ug/l	91
20) Diisopropyl ether	6.665	45	34193	2.254	ug/l #	92
21) 1,1-Dichloroethane	6.547	63	17961	2.274	ug/l	94
22) cis-1,2-Dichloroethene	7.471	96	12812	2.507	ug/l	93
23) tert-Butyl Alcohol	5.530	59	12814	11.533	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	34619m	2.271	ug/l	
25) Chloroform	7.947	83	18957	2.326	ug/l	91
26) Cyclohexane	8.235	56	15993	2.444	ug/l #	90
29) 1,1-Dichloropropene	8.359	75	12643	2.454	ug/l	94
30) 2-Butanone	7.482	43	41763	10.992	ug/l #	81
31) 2,2-Dichloropropane	7.465	77	15559	2.344	ug/l #	77
32) 1,1,1-Trichloroethane	8.147	97	16023	2.489	ug/l	99
33) Carbon Tetrachloride	8.347	117	12820	2.378	ug/l	96
34) Benzene	8.588	78	42700	2.499	ug/l #	69
35) Methacrylonitrile	7.759	41	11690m	2.926	ug/l	
36) 1,2-Dichloroethane	8.653	62	14873	2.507	ug/l #	87
37) Trichloroethene	9.335	130	9845	2.432	ug/l	99
38) Methylcyclohexane	9.576	83	15885	2.497	ug/l	97
39) 1,2-Dichloropropane	9.600	63	10183	2.377	ug/l #	88
40) Dibromomethane	9.688	93	8371	2.684	ug/l	95
41) Bromodichloromethane	9.865	83	16271	2.555	ug/l	91
42) Vinyl Acetate	6.594	43	139483	10.777	ug/l	99

10/09/2025
 Supervised By :Mahesh
 Radoda

10/10/2025

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.547	43	18711	2.562	ug/l	#	88
44) Isopropyl Acetate	8.671	43	27425	2.299	ug/l		99
45) 1,4-Dioxane	9.694	88	3411	42.995	ug/l	#	86
46) Methyl methacrylate	9.665	41	12515	2.382	ug/l		92
47) n-amyl Acetate	12.882	43	14199m	2.511	ug/l		
48) t-1,3-Dichloropropene	10.818	75	16926	2.390	ug/l		100
49) cis-1,3-Dichloropropene	10.294	75	16653	2.254	ug/l	#	85
50) 1,1,2-Trichloroethane	11.000	97	10460	2.533	ug/l	#	82
51) Ethyl methacrylate	10.865	69	16835m	2.409	ug/l		
52) 1,3-Dichloropropane	11.141	76	17131	2.378	ug/l		95
53) Dibromochloromethane	11.341	129	11345	2.298	ug/l		99
54) 1,2-Dibromoethane	11.453	107	9975	2.259	ug/l		100
55) 2-Chloroethyl vinyl ether	10.141	63	32276	8.555	ug/l		97
56) Bromoform	12.564	173	6720	2.013	ug/l	#	99
58) 4-Methyl-2-Pentanone	10.423	43	78756	11.074	ug/l		98
59) 2-Hexanone	11.182	43	34775	7.406	ug/l		99
61) Tetrachloroethene	11.082	164	8032	2.495	ug/l		92
62) Toluene	10.612	91	45039	2.497	ug/l		98
64) Chlorobenzene	11.870	112	28754	2.496	ug/l		97
65) 1,1,1,2-Tetrachloroethane	11.941	131	9135	2.301	ug/l		71
66) Ethyl Benzene	11.941	91	45303	2.310	ug/l		98
67) m/p-Xylenes	12.053	106	35847	4.742	ug/l		97
68) o-Xylene	12.376	106	18464	2.453	ug/l		96
69) Styrene	12.388	104	27107	2.177	ug/l		98
70) Isopropylbenzene	12.670	105	43280	2.346	ug/l		100
71) 1,1,2,2-Tetrachloroethane	12.917	83	15014	2.401	ug/l		93
72) 1,2,3-Trichloropropane	12.976	75	14551m	2.505	ug/l		
73) Bromobenzene	12.959	156	9274	2.057	ug/l		70
74) n-propylbenzene	13.017	91	49294	2.214	ug/l		96
75) 2-Chlorotoluene	13.106	91	29966	2.201	ug/l		97
76) 1,3,5-Trimethylbenzene	13.147	105	34564	2.206	ug/l		96
77) t-1,4-Dichloro-2-butene	12.729	75	4374m	1.890	ug/l		
78) 4-Chlorotoluene	13.200	91	29255	2.115	ug/l		96
79) tert-butylbenzene	13.417	119	31919	2.350	ug/l		91
80) 1,2,4-Trimethylbenzene	13.459	105	36911	2.353	ug/l		92
81) sec-Butylbenzene	13.594	105	44597	2.335	ug/l		95
82) p-Isopropyltoluene	13.711	119	38542	2.364	ug/l		98
83) 1,3-Dichlorobenzene	13.711	146	19723	2.325	ug/l		96
84) 1,4-Dichlorobenzene	13.794	146	22074m	2.523	ug/l		
85) n-Butylbenzene	14.035	91	35597	2.347	ug/l		97
86) Hexachloroethane	14.306	117	7511	2.300	ug/l		95
87) 1,2-Dichlorobenzene	14.088	146	19622m	2.352	ug/l		
88) 1,2-Dibromo-3-Chloropr...	14.700	75	3826m	2.664	ug/l		
89) 1,2,4-Trichlorobenzene	15.805	180	11694m	2.353	ug/l		
90) Hexachlorobutadiene	15.482	225	4312m	2.493	ug/l		
91) Naphthalene	15.611	128	43592	2.396	ug/l		98
92) 1,2,3-Trichlorobenzene	15.805	180	11575	2.329	ug/l		89

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

