

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN073025\
 Data File : VN087439.D
 Acq On : 30 Jul 2025 10:47
 Operator : JC\MD
 Sample : VN0730WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0730WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/31/2025
 Supervised By : Mahesh Dadoda 07/31/2025

Quant Time: Jul 31 01:13:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:35:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	48201	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	265850	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	239728	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	119611	32.451	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.167%			
60) 4-Bromofluorobenzene	12.829	95	113912	28.936	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.467%			
63) Toluene-d8	10.547	98	331544	30.115	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.367%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	54556	19.399	ug/l	99
3) Chloromethane	2.383	50	56288	18.855	ug/l	90
4) Vinyl Chloride	2.542	62	57430	19.014	ug/l	100
5) Bromomethane	2.983	94	28318	19.226	ug/l	100
6) Chloroethane	3.142	64	35938	21.095	ug/l	97
7) Trichlorofluoromethane	3.506	101	80407	21.159	ug/l	92
8) Diethyl Ether	3.959	74	34801	21.943	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.359	101	44906	21.663	ug/l #	36
10) 1,1-Dichloroethene	4.330	96	41117	19.940	ug/l	96
11) Methyl Iodide	4.577	142	27797	14.887	ug/l	97
12) Methyl Acetate	5.024	43	99626	22.158	ug/l	93
13) Acrolein	4.177	56	49089	133.874	ug/l	98
14) Acrylonitrile	5.712	53	207625	106.496	ug/l	98
15) Acetone	4.430	58	48503	107.341	ug/l	96
16) Carbon Disulfide	4.695	76	125803	17.167	ug/l	96
17) Allyl chloride	5.006	41	94127m	19.591	ug/l	
18) Methylene Chloride	5.271	84	60592m	19.518	ug/l	
19) trans-1,2-Dichloroethene	5.771	96	50839	17.354	ug/l	88
20) Diisopropyl ether	6.659	45	223575	20.452	ug/l	95
21) 1,1-Dichloroethane	6.553	63	107485	19.400	ug/l	96
22) cis-1,2-Dichloroethene	7.465	96	66337	18.631	ug/l #	3
23) tert-Butyl Alcohol	5.518	59	80034	105.911	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	209127	20.441	ug/l	97
25) Chloroform	7.947	83	109449	19.567	ug/l	93
26) Cyclohexane	8.241	56	93837	18.338	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	71426	18.926	ug/l	98
30) 2-Butanone	7.471	43	300514	109.905	ug/l	97
31) 2,2-Dichloropropane	7.477	77	89630	19.060	ug/l #	79
32) 1,1,1-Trichloroethane	8.153	97	87514	19.292	ug/l	96
33) Carbon Tetrachloride	8.347	117	71850	19.208	ug/l	97
34) Benzene	8.588	78	237583	19.247	ug/l	96
35) Methacrylonitrile	7.765	41	65689	20.972	ug/l	95
36) 1,2-Dichloroethane	8.659	62	86151	20.972	ug/l #	93
37) Trichloroethene	9.335	130	49690	17.635	ug/l	85
38) Methylcyclohexane	9.583	83	90243	18.540	ug/l	98
39) 1,2-Dichloropropane	9.606	63	63283	20.364	ug/l	100
40) Dibromomethane	9.694	93	45414	20.601	ug/l	95
41) Bromodichloromethane	9.871	83	88915	20.041	ug/l #	92
42) Vinyl Acetate	6.595	43	969689	105.380	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	117895	21.033	ug/l #	67
44) Isopropyl Acetate	8.677	43	198430	22.159	ug/l	95
45) 1,4-Dioxane	9.688	88	25593	450.443	ug/l #	83
46) Methyl methacrylate	9.665	41	79140	18.980	ug/l	95
47) n-amyl Acetate	12.524	43	66897m	18.120	ug/l	
48) t-1,3-Dichloropropene	10.818	75	101964	20.414	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	103323	19.697	ug/l	99
50) 1,1,2-Trichloroethane	11.000	97	58673	19.995	ug/l	97
51) Ethyl methacrylate	10.859	69	105129	19.783	ug/l	90
52) 1,3-Dichloropropane	11.147	76	101932	20.099	ug/l	99
53) Dibromochloromethane	11.341	129	65765	19.539	ug/l	99
54) 1,2-Dibromoethane	11.447	107	61989	20.077	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	311559	142.593	ug/l	98
56) Bromoform	12.559	173	44202	18.714	ug/l	96
58) 4-Methyl-2-Pentanone	10.430	43	609969	112.962	ug/l	97
59) 2-Hexanone	11.182	43	397306	106.172	ug/l	97
61) Tetrachloroethene	11.082	164	42182	18.533	ug/l	89
62) Toluene	10.612	91	258316	19.093	ug/l	97
64) Chlorobenzene	11.871	112	157644	18.947	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	54986	19.490	ug/l	98
66) Ethyl Benzene	11.941	91	283554	19.183	ug/l	99
67) m/p-Xylenes	12.053	106	210331	37.976	ug/l	99
68) o-Xylene	12.376	106	103426	19.082	ug/l	98
69) Styrene	12.394	104	173392	18.703	ug/l	99
70) Isopropylbenzene	12.676	105	265686	19.088	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	97486	20.540	ug/l	97
72) 1,2,3-Trichloropropane	12.971	75	93198m	21.587	ug/l	
73) Bromobenzene	12.959	156	61113	18.897	ug/l	97
74) n-propylbenzene	13.018	91	336624	19.588	ug/l	96
75) 2-Chlorotoluene	13.106	91	189903	18.620	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	219347	19.022	ug/l	98
77) t-1,4-Dichloro-2-butene	12.724	75	31385	17.132	ug/l	92
78) 4-Chlorotoluene	13.200	91	194032	18.527	ug/l	97
79) tert-butylbenzene	13.418	119	190112	19.085	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	221310	19.342	ug/l	99
81) sec-Butylbenzene	13.594	105	287671	19.441	ug/l	99
82) p-Isopropyltoluene	13.712	119	233397	19.434	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	117824	19.252	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	117945	18.429	ug/l	98
85) n-Butylbenzene	14.035	91	234688	19.403	ug/l	99
86) Hexachloroethane	14.306	117	43566	17.861	ug/l	95
87) 1,2-Dichlorobenzene	14.088	146	112943	18.983	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	20917	19.094	ug/l	97
89) 1,2,4-Trichlorobenzene	15.812	180	66316	18.275	ug/l	98
90) Hexachlorobutadiene	15.470	225	25652	18.567	ug/l	96
91) Naphthalene	15.617	128	262503	19.140	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	66316	18.275	ug/l	98

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

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