

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087354.D
 Acq On : 18 Jul 2025 09:49
 Operator : JC\MD
 Sample : VN0718WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS01

Quant Time: Jul 18 23:15:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/21/2025
 Supervised By : Mahesh Dadoda 07/21/2025

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

Internal Standards						
1) Bromochloromethane	7.800	128	47522	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.083	114	244435	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	221298	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	111922	31.258	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	= 104.200%	
60) 4-Bromofluorobenzene	12.829	95	107177	31.385	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	= 104.633%	
63) Toluene-d8	10.547	98	297958	29.987	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.967%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	46040	16.094	ug/l	92
3) Chloromethane	2.383	50	52156	17.851	ug/l	95
4) Vinyl Chloride	2.542	62	55991	17.632	ug/l	97
5) Bromomethane	2.983	94	31368	18.613	ug/l	94
6) Chloroethane	3.142	64	35021	20.559	ug/l	89
7) Trichlorofluoromethane	3.512	101	84060	21.581	ug/l	94
8) Diethyl Ether	3.959	74	35222	18.405	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.365	101	45806	15.862	ug/l #	86
10) 1,1-Dichloroethene	4.336	96	44010	15.288	ug/l	93
11) Methyl Iodide	4.577	142	45963	17.822	ug/l	83
12) Methyl Acetate	5.012	43	94157	20.852	ug/l	98
13) Acrolein	4.171	56	46346	66.797	ug/l	99
14) Acrylonitrile	5.706	53	194390	92.295	ug/l	99
15) Acetone	4.424	58	50273	81.828	ug/l #	67
16) Carbon Disulfide	4.700	76	120368	14.301	ug/l	99
17) Allyl chloride	5.006	41	83723	17.633	ug/l	95
18) Methylene Chloride	5.265	84	61633	18.481	ug/l #	88
19) trans-1,2-Dichloroethene	5.765	96	50015	15.887	ug/l	94
20) Diisopropyl ether	6.665	45	200651	19.919	ug/l	95
21) 1,1-Dichloroethane	6.553	63	108440	18.011	ug/l	97
22) cis-1,2-Dichloroethene	7.471	96	66003	18.014	ug/l	99
23) tert-Butyl Alcohol	5.518	59	70858	89.457	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	197607	19.572	ug/l #	85
25) Chloroform	7.953	83	112809	19.558	ug/l	98
26) Cyclohexane	8.241	56	82625	16.510	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	73612	19.322	ug/l	97
30) 2-Butanone	7.471	43	273944	106.594	ug/l	97
31) 2,2-Dichloropropane	7.477	77	88722	19.292	ug/l	97
32) 1,1,1-Trichloroethane	8.153	97	94766	21.291	ug/l	99
33) Carbon Tetrachloride	8.341	117	79873	21.324	ug/l	94
34) Benzene	8.588	78	230543	19.101	ug/l	98
35) Methacrylonitrile	7.765	41	54370	20.992	ug/l	92
36) 1,2-Dichloroethane	8.653	62	89095	22.847	ug/l	100
37) Trichloroethene	9.335	130	54222	19.476	ug/l	90
38) Methylcyclohexane	9.583	83	82279	18.822	ug/l	97
39) 1,2-Dichloropropane	9.600	63	61741	20.380	ug/l	95
40) Dibromomethane	9.688	93	44656	21.678	ug/l	97
41) Bromodichloromethane	9.871	83	90440	21.751	ug/l	100
42) Vinyl Acetate	6.589	43	814344	97.423	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	104599	22.546	ug/l	99
44) Isopropyl Acetate	8.677	43	168318	22.268	ug/l	97
45) 1,4-Dioxane	9.683	88	22395	437.982	ug/l	96
46) Methyl methacrylate	9.665	41	77417	22.032	ug/l	91
47) n-amyl Acetate	12.518	43	103268m	22.346	ug/l	
48) t-1,3-Dichloropropene	10.818	75	97826	21.105	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	98514	19.992	ug/l	94
50) 1,1,2-Trichloroethane	11.000	97	59759	20.422	ug/l	96
51) Ethyl methacrylate	10.859	69	99466	22.333	ug/l	95
52) 1,3-Dichloropropane	11.147	76	103837	20.670	ug/l	100
53) Dibromochloromethane	11.341	129	66541	21.663	ug/l	98
54) 1,2-Dibromoethane	11.453	107	60898	20.172	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	250674	98.193	ug/l	99
56) Bromoform	12.559	173	43849	20.766	ug/l #	99
58) 4-Methyl-2-Pentanone	10.430	43	538352	121.008	ug/l	97
59) 2-Hexanone	11.177	43	364057	126.726	ug/l	91
61) Tetrachloroethene	11.082	164	43638	19.912	ug/l	95
62) Toluene	10.612	91	243667	19.496	ug/l	97
64) Chlorobenzene	11.871	112	156878	19.677	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.941	131	55487	21.064	ug/l	98
66) Ethyl Benzene	11.941	91	267636	19.563	ug/l	98
67) m/p-Xylenes	12.053	106	207896	39.657	ug/l	99
68) o-Xylene	12.376	106	102410	20.476	ug/l	96
69) Styrene	12.394	104	164445	19.152	ug/l	97
70) Isopropylbenzene	12.676	105	257201	20.649	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	92663	20.667	ug/l	96
72) 1,2,3-Trichloropropane	12.976	75	88121m	22.792	ug/l	
73) Bromobenzene	12.959	156	63051	20.867	ug/l	95
74) n-propylbenzene	13.018	91	317325	20.853	ug/l	99
75) 2-Chlorotoluene	13.106	91	185378	20.164	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	217196	21.419	ug/l	98
77) t-1,4-Dichloro-2-butene	12.724	75	31906	18.604	ug/l	98
78) 4-Chlorotoluene	13.200	91	191958	20.387	ug/l	98
79) tert-butylbenzene	13.418	119	188065	22.063	ug/l	98
80) 1,2,4-Trimethylbenzene	13.465	105	213138	20.932	ug/l	100
81) sec-Butylbenzene	13.594	105	275791	22.258	ug/l	100
82) p-Isopropyltoluene	13.706	119	233831	22.676	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	119952	20.616	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	125908	21.501	ug/l	99
85) n-Butylbenzene	14.035	91	217503	23.118	ug/l	97
86) Hexachloroethane	14.306	117	41372	21.196	ug/l	86
87) 1,2-Dichlorobenzene	14.088	146	117040	21.333	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	21197	20.996	ug/l	96
89) 1,2,4-Trichlorobenzene	15.812	180	71387	22.999	ug/l	99
90) Hexachlorobutadiene	15.476	225	30129	32.711	ug/l	96
91) Naphthalene	15.617	128	251907	20.621	ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	71387	22.999	ug/l	99

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

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