

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087361.D
 Acq On : 18 Jul 2025 13:16
 Operator : JC\MD
 Sample : VN0718WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBSD01

Quant Time: Jul 18 23:18:57 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	42433	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.083	114	214950	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	202696	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	103525	32.381	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.933%			
60) 4-Bromofluorobenzene	12.829	95	99771	31.898	ug/l	-0.02
Spiked Amount 30.000	Range 63 - 112		Recovery = 106.333%			
63) Toluene-d8	10.547	98	275131	30.231	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	35853	14.036	ug/l	97
3) Chloromethane	2.383	50	41885	16.055	ug/l	96
4) Vinyl Chloride	2.536	62	44855	15.819	ug/l	95
5) Bromomethane	2.983	94	18361	12.202	ug/l	89
6) Chloroethane	3.142	64	30637	20.142	ug/l	96
7) Trichlorofluoromethane	3.518	101	69722	20.047	ug/l	89
8) Diethyl Ether	3.959	74	30088	17.608	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.359	101	38544	14.948	ug/l	95
10) 1,1-Dichloroethene	4.336	96	37395	14.548	ug/l	86
11) Methyl Iodide	4.577	142	26704	11.596	ug/l	91
12) Methyl Acetate	5.018	43	82847	20.548	ug/l #	85
13) Acrolein	4.183	56	48089	77.621	ug/l	98
14) Acrylonitrile	5.712	53	167411	89.018	ug/l	98
15) Acetone	4.424	58	49031	89.378	ug/l	79
16) Carbon Disulfide	4.701	76	102241	13.604	ug/l	100
17) Allyl chloride	5.012	41	75076	17.708	ug/l	93
18) Methylene Chloride	5.259	84	51714	17.367	ug/l	96
19) trans-1,2-Dichloroethene	5.771	96	43214	15.373	ug/l	97
20) Diisopropyl ether	6.659	45	173529	19.292	ug/l	96
21) 1,1-Dichloroethane	6.553	63	94938	17.660	ug/l	95
22) cis-1,2-Dichloroethene	7.471	96	54987	16.808	ug/l	95
23) tert-Butyl Alcohol	5.524	59	59706	84.418	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	165732	18.384	ug/l	98
25) Chloroform	7.953	83	98002	19.028	ug/l	100
26) Cyclohexane	8.241	56	65075	14.563	ug/l #	98
29) 1,1-Dichloropropene	8.359	75	60948	18.192	ug/l	97
30) 2-Butanone	7.471	43	246967	109.279	ug/l	96
31) 2,2-Dichloropropane	7.471	77	80501	19.905	ug/l	95
32) 1,1,1-Trichloroethane	8.147	97	80024	20.445	ug/l	99
33) Carbon Tetrachloride	8.347	117	67642	20.536	ug/l	96
34) Benzene	8.589	78	199829	18.827	ug/l	98
35) Methacrylonitrile	7.765	41	50200	22.041	ug/l	95
36) 1,2-Dichloroethane	8.659	62	77012	22.457	ug/l	98
37) Trichloroethene	9.336	130	44812	18.304	ug/l	98
38) Methylcyclohexane	9.583	83	63597	16.544	ug/l	97
39) 1,2-Dichloropropane	9.606	63	51797	19.443	ug/l	98
40) Dibromomethane	9.694	93	37885	20.914	ug/l	98
41) Bromodichloromethane	9.871	83	78887	21.575	ug/l #	96
42) Vinyl Acetate	6.589	43	786848	107.046	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	92098	22.575	ug/l	100
44) Isopropyl Acetate	8.677	43	147643	22.212	ug/l	97
45) 1,4-Dioxane	9.683	88	18109	402.741	ug/l #	96
46) Methyl methacrylate	9.665	41	65982	21.353	ug/l	91
47) n-amyl Acetate	12.518	43	88985m	21.896	ug/l	
48) t-1,3-Dichloropropene	10.818	75	81666	20.035	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	85567	19.747	ug/l	91
50) 1,1,2-Trichloroethane	10.994	97	51059	19.843	ug/l	97
51) Ethyl methacrylate	10.859	69	78913	20.149	ug/l	86
52) 1,3-Dichloropropane	11.147	76	89110	20.171	ug/l	99
53) Dibromochloromethane	11.341	129	58941	21.821	ug/l	97
54) 1,2-Dibromoethane	11.447	107	51936	19.563	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	229622	102.285	ug/l	100
56) Bromoform	12.559	173	37792	20.353	ug/l #	95
58) 4-Methyl-2-Pentanone	10.430	43	484568	118.914	ug/l	94
59) 2-Hexanone	11.182	43	321652	122.241	ug/l	91
61) Tetrachloroethene	11.082	164	37558	18.711	ug/l	89
62) Toluene	10.612	91	214455	18.733	ug/l	99
64) Chlorobenzene	11.871	112	138176	18.922	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	49360	20.457	ug/l	98
66) Ethyl Benzene	11.947	91	228458	18.232	ug/l	100
67) m/p-Xylenes	12.053	106	177611	36.990	ug/l	98
68) o-Xylene	12.377	106	85132	18.584	ug/l	96
69) Styrene	12.394	104	147470	18.751	ug/l	98
70) Isopropylbenzene	12.677	105	216730	18.996	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	82216	20.020	ug/l	99
72) 1,2,3-Trichloropropane	12.971	75	80548m	22.745	ug/l	
73) Bromobenzene	12.959	156	55891	20.195	ug/l	93
74) n-propylbenzene	13.012	91	275814	19.788	ug/l	99
75) 2-Chlorotoluene	13.106	91	161776	19.212	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	184498	19.864	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	21439	13.648	ug/l	86
78) 4-Chlorotoluene	13.200	91	170444	19.763	ug/l	99
79) tert-butylbenzene	13.418	119	159673	20.452	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	187139	20.065	ug/l	98
81) sec-Butylbenzene	13.594	105	231192	20.370	ug/l	99
82) p-Isopropyltoluene	13.706	119	192583	20.390	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	107976	20.260	ug/l	98
84) 1,4-Dichlorobenzene	13.788	146	106059	19.774	ug/l	98
85) n-Butylbenzene	14.035	91	178654	20.732	ug/l	99
86) Hexachloroethane	14.312	117	35454	19.831	ug/l	91
87) 1,2-Dichlorobenzene	14.082	146	101395	20.178	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.694	75	18194	19.675	ug/l	98
89) 1,2,4-Trichlorobenzene	15.812	180	60524	21.289	ug/l	98
90) Hexachlorobutadiene	15.476	225	24689	29.265	ug/l	95
91) Naphthalene	15.612	128	211981	18.945	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	60524	21.289	ug/l	98

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

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