

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087450.D
 Acq On : 05 Aug 2025 12:02
 Operator : JC\MD
 Sample : VN0805WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0805WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/06/2025
 Supervised By : Mahesh Dadoda 08/06/2025

Quant Time: Aug 06 02:10:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	78432	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	403979	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	365851	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	206057	28.484	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.933%		
60) 4-Bromofluorobenzene	12.829	95	188695	29.970	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.900%		
63) Toluene-d8	10.547	98	500854	29.753	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.167%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	62984	12.300	ug/l	95
3) Chloromethane	2.383	50	61032	11.617	ug/l	93
4) Vinyl Chloride	2.542	62	70596	12.669	ug/l	98
5) Bromomethane	2.983	94	35672	11.827	ug/l	90
6) Chloroethane	3.136	64	45567	12.681	ug/l	91
7) Trichlorofluoromethane	3.512	101	99742	12.437	ug/l	95
8) Diethyl Ether	3.959	74	43687	13.076	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	51787	12.663	ug/l	85
10) 1,1-Dichloroethene	4.336	96	52943	12.325	ug/l	98
11) Methyl Iodide	4.589	142	33547	9.918	ug/l	97
12) Methyl Acetate	5.018	43	123574	15.589	ug/l	93
13) Acrolein	4.177	56	60345m	49.842	ug/l	
14) Acrylonitrile	5.712	53	228675	66.063	ug/l	98
15) Acetone	4.430	58	66996	67.739	ug/l	99
16) Carbon Disulfide	4.706	76	147204	11.047	ug/l	100
17) Allyl chloride	5.006	41	109247	12.477	ug/l	94
18) Methylene Chloride	5.259	84	70049	12.667	ug/l	92
19) trans-1,2-Dichloroethene	5.777	96	61166	11.974	ug/l	95
20) Diisopropyl ether	6.659	45	255847	12.827	ug/l	97
21) 1,1-Dichloroethane	6.553	63	132984	12.898	ug/l	96
22) cis-1,2-Dichloroethene	7.471	96	81510	12.968	ug/l	99
23) tert-Butyl Alcohol	5.530	59	95396	64.856	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	256789	13.119	ug/l	99
25) Chloroform	7.953	83	138345	12.855	ug/l	98
26) Cyclohexane	8.241	56	100310	12.152	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	88324	13.405	ug/l	97
30) 2-Butanone	7.471	43	337650	69.521	ug/l	99
31) 2,2-Dichloropropane	7.477	77	122475	14.412	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	117389	13.969	ug/l	97
33) Carbon Tetrachloride	8.347	117	96859	13.874	ug/l	98
34) Benzene	8.588	78	286694	13.784	ug/l	99
35) Methacrylonitrile	7.765	41	73070	13.942	ug/l	97
36) 1,2-Dichloroethane	8.653	62	116393	13.846	ug/l	99
37) Trichloroethene	9.335	130	60775	13.265	ug/l	97
38) Methylcyclohexane	9.577	83	96592	12.637	ug/l	99
39) 1,2-Dichloropropane	9.600	63	74539	13.978	ug/l	95
40) Dibromomethane	9.688	93	54961	13.736	ug/l	95
41) Bromodichloromethane	9.871	83	114030	13.715	ug/l	96
42) Vinyl Acetate	6.589	43	1079665	67.503	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	124400	13.258	ug/l	97
44) Isopropyl Acetate	8.671	43	224436	14.111	ug/l	99
45) 1,4-Dioxane	9.682	88	30505	300.860	ug/l	98
46) Methyl methacrylate	9.665	41	104273	13.889	ug/l	95
47) n-amyl Acetate	12.582	43	98395m	11.199	ug/l	
48) t-1,3-Dichloropropene	10.818	75	124561	13.771	ug/l	100
49) cis-1,3-Dichloropropene	10.288	75	127816	14.041	ug/l	99
50) 1,1,2-Trichloroethane	11.000	97	71617	14.167	ug/l	96
51) Ethyl methacrylate	10.859	69	124909	14.030	ug/l	93
52) 1,3-Dichloropropane	11.141	76	125417	13.771	ug/l	98
53) Dibromochloromethane	11.335	129	81472	13.955	ug/l	97
54) 1,2-Dibromoethane	11.447	107	74260	13.838	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	263019	56.118	ug/l	99
56) Bromoform	12.559	173	53471	13.847	ug/l #	94
58) 4-Methyl-2-Pentanone	10.424	43	673117	71.521	ug/l	100
59) 2-Hexanone	11.182	43	442504	69.200	ug/l	100
61) Tetrachloroethene	11.088	164	46372	13.010	ug/l	93
62) Toluene	10.612	91	302753	13.408	ug/l	99
64) Chlorobenzene	11.871	112	191037	13.769	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.941	131	67960	13.931	ug/l	98
66) Ethyl Benzene	11.941	91	342730	13.618	ug/l	97
67) m/p-Xylenes	12.053	106	244467	26.463	ug/l	98
68) o-Xylene	12.376	106	123458	13.584	ug/l	100
69) Styrene	12.394	104	208640	13.445	ug/l	98
70) Isopropylbenzene	12.676	105	318464	13.792	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	110740	13.997	ug/l	99
72) 1,2,3-Trichloropropane	12.970	75	111896m	15.182	ug/l	
73) Bromobenzene	12.959	156	73611	13.752	ug/l	99
74) n-propylbenzene	13.018	91	398642	13.824	ug/l	99
75) 2-Chlorotoluene	13.106	91	240420	13.554	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	272984	13.808	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	39390	14.118	ug/l	81
78) 4-Chlorotoluene	13.200	91	245953	13.682	ug/l	99
79) tert-butylbenzene	13.418	119	231334	13.878	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	270573	13.696	ug/l	100
81) sec-Butylbenzene	13.594	105	336415	13.864	ug/l	99
82) p-Isopropyltoluene	13.706	119	280626	13.928	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	143571	14.086	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	142669	13.806	ug/l	98
85) n-Butylbenzene	14.035	91	279344	14.171	ug/l	98
86) Hexachloroethane	14.312	117	58366	14.834	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	140410	14.431	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	28277	14.109	ug/l	94
89) 1,2,4-Trichlorobenzene	15.811	180	78646	13.525	ug/l	95
90) Hexachlorobutadiene	15.470	225	31937	14.125	ug/l	95
91) Naphthalene	15.611	128	307256	13.858	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	78646	13.525	ug/l	95

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

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