

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092225\
 Data File : VN087912.D
 Acq On : 22 Sep 2025 10:19
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/23/2025
 Supervised By : Mahesh Dadoda 09/24/2025

Quant Time: Sep 23 04:48:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	50702	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	240101	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	230490	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	117995	27.244	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.800%#		
60) 4-Bromofluorobenzene	12.829	95	113642	30.664	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.200%		
63) Toluene-d8	10.541	98	310927	29.007	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.700%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	47144	14.961	ug/l	99
3) Chloromethane	2.383	50	41718	12.611	ug/l	99
4) Vinyl Chloride	2.542	62	46110	12.331	ug/l	98
5) Bromomethane	2.983	94	28928	13.187	ug/l	96
6) Chloroethane	3.147	64	32261	12.623	ug/l #	82
7) Trichlorofluoromethane	3.518	101	80065	14.607	ug/l	95
8) Diethyl Ether	3.965	74	30002	12.962	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.365	101	43664	14.707	ug/l	82
10) 1,1-Dichloroethene	4.336	96	43237	14.126	ug/l	88
11) Methyl Iodide	4.577	142	28923	13.349	ug/l	93
12) Methyl Acetate	5.018	43	80667	17.097	ug/l	97
13) Acrolein	4.177	56	57204	68.093	ug/l #	35
14) Acrylonitrile	5.712	53	157906	77.752	ug/l	96
15) Acetone	4.424	58	43236	68.243	ug/l	84
16) Carbon Disulfide	4.706	76	112244	13.356	ug/l #	88
17) Allyl chloride	5.018	41	68150	13.632	ug/l	89
18) Methylene Chloride	5.265	84	57890	16.696	ug/l	85
19) trans-1,2-Dichloroethene	5.777	96	51014	16.342	ug/l	98
20) Diisopropyl ether	6.653	45	172273	14.985	ug/l	97
21) 1,1-Dichloroethane	6.547	63	101957	16.195	ug/l #	92
22) cis-1,2-Dichloroethene	7.471	96	62893	16.598	ug/l	99
23) tert-Butyl Alcohol	5.512	59	52623	73.299	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	170995	15.648	ug/l	96
25) Chloroform	7.947	83	111384	16.902	ug/l	86
26) Cyclohexane	8.235	56	63379	13.219	ug/l #	94
29) 1,1-Dichloropropene	8.353	75	65087	16.680	ug/l	96
30) 2-Butanone	7.471	43	226156	84.135	ug/l	100
31) 2,2-Dichloropropane	7.471	77	89677	19.065	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	94858	19.175	ug/l	96
33) Carbon Tetrachloride	8.347	117	78684	19.076	ug/l	96
34) Benzene	8.582	78	223004	17.683	ug/l	96
35) Methacrylonitrile	7.759	41	44830	15.944	ug/l	96
36) 1,2-Dichloroethane	8.653	62	84398	17.717	ug/l	99
37) Trichloroethene	9.335	130	52688	18.690	ug/l	86
38) Methylcyclohexane	9.582	83	64465	15.004	ug/l	99
39) 1,2-Dichloropropane	9.594	63	57609	17.836	ug/l	99
40) Dibromomethane	9.688	93	47444	19.738	ug/l	92
41) Bromodichloromethane	9.865	83	90875	18.497	ug/l #	99
42) Vinyl Acetate	6.588	43	767525	85.459	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	93186	16.968	ug/l	99
44) Isopropyl Acetate	8.671	43	140251	16.290	ug/l	98
45) 1,4-Dioxane	9.682	88	18440	339.627	ug/l	88
46) Methyl methacrylate	9.665	41	61765	15.564	ug/l	86
47) n-amyl Acetate	12.676	43	91343m	15.700	ug/l	
48) t-1,3-Dichloropropene	10.818	75	85602	16.776	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	89878	17.197	ug/l	90
50) 1,1,2-Trichloroethane	10.994	97	58936	18.983	ug/l	94
51) Ethyl methacrylate	10.853	69	73960	15.307	ug/l	95
52) 1,3-Dichloropropane	11.141	76	96375	17.877	ug/l	99
53) Dibromochloromethane	11.335	129	71783	20.621	ug/l	90
54) 1,2-Dibromoethane	11.447	107	60899	18.851	ug/l	95
55) 2-Chloroethyl vinyl ether	10.141	63	94030	33.966	ug/l	96
56) Bromoform	12.559	173	47794	21.024	ug/l	100
58) 4-Methyl-2-Pentanone	10.423	43	458645	84.156	ug/l	99
59) 2-Hexanone	11.176	43	293347	82.373	ug/l	100
61) Tetrachloroethene	11.082	164	47006	20.483	ug/l	95
62) Toluene	10.606	91	243154	17.441	ug/l	100
64) Chlorobenzene	11.870	112	163117	19.062	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.935	131	60739	20.161	ug/l	96
66) Ethyl Benzene	11.941	91	255117	16.961	ug/l	90
67) m/p-Xylenes	12.047	106	199969	35.816	ug/l	94
68) o-Xylene	12.376	106	94200	17.401	ug/l	99
69) Styrene	12.388	104	161489	17.163	ug/l	99
70) Isopropylbenzene	12.676	105	234417	17.078	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	93999	19.049	ug/l	98
72) 1,2,3-Trichloropropane	12.970	75	90273m	18.631	ug/l	
73) Bromobenzene	12.959	156	66464	19.791	ug/l	88
74) n-propylbenzene	13.012	91	310388	17.922	ug/l	99
75) 2-Chlorotoluene	13.100	91	185719	17.817	ug/l	94
76) 1,3,5-Trimethylbenzene	13.147	105	213599	18.427	ug/l	96
77) t-1,4-Dichloro-2-butene	12.717	75	28494	17.424	ug/l	93
78) 4-Chlorotoluene	13.200	91	194333	18.493	ug/l	100
79) tert-butylbenzene	13.412	119	179688	18.510	ug/l	95
80) 1,2,4-Trimethylbenzene	13.459	105	212078	17.846	ug/l	95
81) sec-Butylbenzene	13.594	105	263546	18.458	ug/l	97
82) p-Isopropyltoluene	13.706	119	220480	18.741	ug/l	98
83) 1,3-Dichlorobenzene	13.711	146	131101	20.249	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	130282	20.075	ug/l	98
85) n-Butylbenzene	14.035	91	201885	17.853	ug/l	99
86) Hexachloroethane	14.306	117	48159	20.154	ug/l	94
87) 1,2-Dichlorobenzene	14.082	146	122135	20.001	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	20261	18.502	ug/l	91
89) 1,2,4-Trichlorobenzene	15.811	180	70931	20.423	ug/l	99
90) Hexachlorobutadiene	15.470	225	28971	24.883	ug/l	96
91) Naphthalene	15.611	128	220365	17.235	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	70931	20.423	ug/l	99

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

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