

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112625\
 Data File : VN088362.D
 Acq On : 26 Nov 2025 09:06
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Nov 27 00:07:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N11325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:49:21 2025
 Response via : Initial Calibration

12/01/2025
 Supervised By :Semsettin
 Yesilyurt

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

Internal Standards						
1) Bromochloromethane	7.800	128	55632	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	271784	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	250226	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	139010	27.355	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	91.200%
60) 4-Bromofluorobenzene	12.829	95	120703	28.535	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.133%
63) Toluene-d8	10.547	98	351022	29.631	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.767%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	68749	17.580	ug/l	98
3) Chloromethane	2.383	50	77515	19.225	ug/l	98
4) Vinyl Chloride	2.536	62	76223	17.879	ug/l	98
5) Bromomethane	2.989	94	41266	18.153	ug/l	82
6) Chloroethane	3.142	64	50538	19.178	ug/l	100
7) Trichlorofluoromethane	3.518	101	106214	17.770	ug/l	92
8) Diethyl Ether	3.965	74	42236	18.906	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	56933	18.156	ug/l	58
10) 1,1-Dichloroethene	4.342	96	57820	18.901	ug/l	95
11) Methyl Iodide	4.583	142	58343	17.921	ug/l #	85
12) Methyl Acetate	5.024	43	99940	20.250	ug/l	95
13) Acrolein	4.183	56	104221	143.531	ug/l	99
14) Acrylonitrile	5.712	53	219426	97.846	ug/l	100
15) Acetone	4.430	58	43428	66.221	ug/l	74
16) Carbon Disulfide	4.712	76	180943	17.538	ug/l	99
17) Allyl chloride	5.018	41	107618	18.103	ug/l	95
18) Methylene Chloride	5.265	84	74539	19.603	ug/l	87
19) trans-1,2-Dichloroethene	5.783	96	68943	19.354	ug/l	95
20) Diisopropyl ether	6.653	45	244915	19.280	ug/l	95
21) 1,1-Dichloroethane	6.553	63	138551	19.359	ug/l	97
22) cis-1,2-Dichloroethene	7.465	96	80195	19.370	ug/l	96
23) tert-Butyl Alcohol	5.512	59	73998	89.737	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	234535	19.015	ug/l	98
25) Chloroform	7.947	83	142895	20.150	ug/l	94
26) Cyclohexane	8.235	56	103957	17.197	ug/l #	87
29) 1,1-Dichloropropene	8.353	75	89303	19.693	ug/l	100
30) 2-Butanone	7.471	43	266651	90.901	ug/l	98
31) 2,2-Dichloropropane	7.471	77	114866	20.537	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	114753	20.527	ug/l	98
33) Carbon Tetrachloride	8.341	117	92638	19.405	ug/l	98
34) Benzene	8.588	78	290714	21.447	ug/l	97
35) Methacrylonitrile	7.765	41	67611	22.097	ug/l	97
36) 1,2-Dichloroethane	8.647	62	114295	21.666	ug/l #	87
37) Trichloroethene	9.335	130	68935	22.442	ug/l	96
38) Methylcyclohexane	9.576	83	90896	17.483	ug/l	99
39) 1,2-Dichloropropane	9.600	63	76553	21.890	ug/l	96
40) Dibromomethane	9.688	93	54761	21.794	ug/l	96
41) Bromodichloromethane	9.871	83	110325	21.811	ug/l	99
42) Vinyl Acetate	6.588	43	983030	100.405	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	124467	21.088	ug/l	98
44) Isopropyl Acetate	8.671	43	199813	21.967	ug/l	100
45) 1,4-Dioxane	9.682	88	23714	432.934	ug/l #	84
46) Methyl methacrylate	9.659	41	89006	20.911	ug/l	97
47) n-amyl Acetate	12.682	43	111270m	24.141	ug/l	
48) t-1,3-Dichloropropene	10.818	75	112123	20.725	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	120773	21.455	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	68438	22.027	ug/l	94
51) Ethyl methacrylate	10.859	69	105437	20.626	ug/l	95
52) 1,3-Dichloropropane	11.141	76	125563	22.191	ug/l	100
53) Dibromochloromethane	11.335	129	81241	22.764	ug/l	100
54) 1,2-Dibromoethane	11.447	107	69695	21.590	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	290870	98.782	ug/l	97
56) Bromoform	12.559	173	47619	21.081	ug/l	98
58) 4-Methyl-2-Pentanone	10.424	43	619105	109.392	ug/l	99
59) 2-Hexanone	11.176	43	362155	96.368	ug/l	99
61) Tetrachloroethene	11.082	164	64048	24.826	ug/l	96
62) Toluene	10.612	91	300039	20.895	ug/l	99
64) Chlorobenzene	11.870	112	186564	20.978	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.935	131	65293	21.450	ug/l	96
66) Ethyl Benzene	11.941	91	313805	19.828	ug/l	97
67) m/p-Xylenes	12.053	106	240221	40.589	ug/l	99
68) o-Xylene	12.376	106	113606	20.348	ug/l	92
69) Styrene	12.388	104	193603	20.417	ug/l	98
70) Isopropylbenzene	12.676	105	285015	19.263	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.917	83	98385	20.528	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	88921m	19.151	ug/l	
73) Bromobenzene	12.959	156	71015	21.260	ug/l	94
74) n-propylbenzene	13.012	91	348765	19.047	ug/l	98
75) 2-Chlorotoluene	13.106	91	209465	18.813	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	237475	19.121	ug/l	98
77) t-1,4-Dichloro-2-butene	12.717	75	31153	19.538	ug/l	79
78) 4-Chlorotoluene	13.200	91	211618	18.755	ug/l	92
79) tert-butylbenzene	13.412	119	197074	18.534	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	244467	19.795	ug/l	99
81) sec-Butylbenzene	13.594	105	285537	18.411	ug/l	100
82) p-Isopropyltoluene	13.706	119	235745	18.395	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	133601	20.586	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	137161	20.869	ug/l	95
85) n-Butylbenzene	14.035	91	219592	17.979	ug/l	100
86) Hexachloroethane	14.311	117	42543	17.338	ug/l	96
87) 1,2-Dichlorobenzene	14.082	146	126912	20.718	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	21368	18.968	ug/l	95
89) 1,2,4-Trichlorobenzene	15.811	180	69463	20.207	ug/l	98
90) Hexachlorobutadiene	15.470	225	25121	18.817	ug/l	96
91) Naphthalene	15.611	128	248008	19.939	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	69463	20.207	ug/l	98

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

