

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111325\
 Data File : VN088275.D
 Acq On : 13 Nov 2025 10:47
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/14/2025
 Supervised By : Semsettin Yesilyurt 11/14/2025

Quant Time: Nov 14 00:32:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:31:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	56809	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	316009	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	274966	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	155667	33.966	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 113.233%#	
60) 4-Bromofluorobenzene	12.829	95	135914	30.014	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.033%	
63) Toluene-d8	10.547	98	400066	32.118	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 107.067%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	89611	25.803	ug/l	100
3) Chloromethane	2.383	50	86783	22.710	ug/l	100
4) Vinyl Chloride	2.536	62	91378	22.923	ug/l	100
5) Bromomethane	2.983	94	45970	21.544	ug/l	100
6) Chloroethane	3.142	64	56603	21.775	ug/l	100
7) Trichlorofluoromethane	3.512	101	130333	23.708	ug/l	100
8) Diethyl Ether	3.965	74	45445	19.304	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	68173	23.278	ug/l	100
10) 1,1-Dichloroethene	4.336	96	66195	21.644	ug/l	100
11) Methyl Iodide	4.583	142	66051	22.325	ug/l	100
12) Methyl Acetate	5.018	43	102860	20.884	ug/l	100
13) Acrolein	4.183	56	67002	89.110	ug/l	100
14) Acrylonitrile	5.706	53	231708	98.836	ug/l	100
15) Acetone	4.418	58	68836	100.391	ug/l	100
16) Carbon Disulfide	4.706	76	224507	22.989	ug/l	100
17) Allyl chloride	5.018	41	124920	21.641	ug/l	100
18) Methylene Chloride	5.259	84	79465	20.618	ug/l	100
19) trans-1,2-Dichloroethene	5.783	96	77097m	21.822	ug/l	100
20) Diisopropyl ether	6.653	45	264884	20.483	ug/l	100
21) 1,1-Dichloroethane	6.553	63	151801	22.101	ug/l	100
22) cis-1,2-Dichloroethene	7.471	96	85904	19.863	ug/l	100
23) tert-Butyl Alcohol	5.524	59	82461	89.862	ug/l	# 100
24) Methyl tert-Butyl Ether	5.789	73	251301	19.534	ug/l	100
25) Chloroform	7.947	83	146699	20.947	ug/l	100
26) Cyclohexane	8.241	56	133859	23.277	ug/l	100
29) 1,1-Dichloropropene	8.353	75	107093	22.717	ug/l	100
30) 2-Butanone	7.471	43	330360	98.988	ug/l	100
31) 2,2-Dichloropropane	7.471	77	131341	21.925	ug/l	100
32) 1,1,1-Trichloroethane	8.147	97	131366	22.498	ug/l	100
33) Carbon Tetrachloride	8.341	117	112124	22.765	ug/l	100
34) Benzene	8.588	78	314932	20.690	ug/l	100
35) Methacrylonitrile	7.765	41	68465	19.580	ug/l	100
36) 1,2-Dichloroethane	8.653	62	121133	22.449	ug/l	100
37) Trichloroethene	9.330	130	71676	20.066	ug/l	100
38) Methylcyclohexane	9.577	83	124934	21.749	ug/l	100
39) 1,2-Dichloropropane	9.600	63	79702	20.829	ug/l	100
40) Dibromomethane	9.688	93	58255	20.946	ug/l	100
41) Bromodichloromethane	9.871	83	112790	20.003	ug/l	100
42) Vinyl Acetate	6.589	43	1104913	96.320	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.541	43	135974	20.923	ug/l	100
44) Isopropyl Acetate	8.671	43	205400	19.593	ug/l	100
45) 1,4-Dioxane	9.682	88	26417	388.772	ug/l	100
46) Methyl methacrylate	9.665	41	94347	19.858	ug/l	100
47) n-amyl Acetate	12.671	43	96079m	19.466	ug/l	
48) t-1,3-Dichloropropene	10.812	75	117823	18.989	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	128462	19.738	ug/l	100
50) 1,1,2-Trichloroethane	10.994	97	70272	19.404	ug/l	100
51) Ethyl methacrylate	10.853	69	110057	18.093	ug/l	100
52) 1,3-Dichloropropane	11.141	76	128846	20.209	ug/l	100
53) Dibromochloromethane	11.335	129	79410	18.494	ug/l	100
54) 1,2-Dibromoethane	11.447	107	71949	18.708	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	320128	97.447	ug/l	100
56) Bromoform	12.565	173	49101	17.127	ug/l	100
58) 4-Methyl-2-Pentanone	10.424	43	627464	101.601	ug/l	100
59) 2-Hexanone	11.177	43	399715	98.468	ug/l	100
61) Tetrachloroethene	11.082	164	60224	21.314	ug/l	100
62) Toluene	10.606	91	325793	20.699	ug/l	100
64) Chlorobenzene	11.871	112	195311	19.673	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	67699	19.855	ug/l	100
66) Ethyl Benzene	11.941	91	353168	20.628	ug/l	100
67) m/p-Xylenes	12.053	106	265069	40.436	ug/l	100
68) o-Xylene	12.376	106	121940	18.975	ug/l	100
69) Styrene	12.394	104	204002	19.012	ug/l	100
70) Isopropylbenzene	12.676	105	329705	20.485	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	105470	19.550	ug/l	100
72) 1,2,3-Trichloropropane	12.976	75	93353m	18.642	ug/l	
73) Bromobenzene	12.959	156	73152	19.023	ug/l	100
74) n-propylbenzene	13.012	91	409616	20.952	ug/l	100
75) 2-Chlorotoluene	13.106	91	245108	20.611	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	274988	20.196	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	32812	16.660	ug/l	100
78) 4-Chlorotoluene	13.200	91	249260	20.636	ug/l	100
79) tert-butylbenzene	13.412	119	233396	19.912	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	270223	19.918	ug/l	100
81) sec-Butylbenzene	13.594	105	351400	21.009	ug/l	100
82) p-Isopropyltoluene	13.706	119	288563	20.375	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	145695	19.906	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	143865	19.240	ug/l	100
85) n-Butylbenzene	14.035	91	281860	21.176	ug/l	100
86) Hexachloroethane	14.312	117	53696	19.135	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	136306	19.098	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.700	75	23631	19.344	ug/l	100
89) 1,2,4-Trichlorobenzene	15.812	180	73982	17.714	ug/l	100
90) Hexachlorobutadiene	15.476	225	30294	20.112	ug/l	100
91) Naphthalene	15.612	128	264153	17.329	ug/l	100
92) 1,2,3-Trichlorobenzene	15.812	180	73982	17.714	ug/l	100

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

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