

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080625\
 Data File : VN087468.D
 Acq On : 06 Aug 2025 09:25
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/07/2025
 Supervised By : Mahesh Dadoda 08/07/2025

Quant Time: Aug 07 03:30:39 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	7.801	128	66799	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	375782	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	344046	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	188954	30.668	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.233%			
60) 4-Bromofluorobenzene	12.830	95	175680	29.672	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.900%			
63) Toluene-d8	10.547	98	477005	30.132	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.433%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	77576	17.787	ug/l	97
3) Chloromethane	2.383	50	76151	17.019	ug/l	97
4) Vinyl Chloride	2.542	62	83982	17.696	ug/l	91
5) Bromomethane	2.983	94	47609	18.533	ug/l #	73
6) Chloroethane	3.142	64	54583	17.836	ug/l	99
7) Trichlorofluoromethane	3.513	101	118549	17.357	ug/l	96
8) Diethyl Ether	3.960	74	49551	17.414	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.365	101	59312	17.029	ug/l	86
10) 1,1-Dichloroethene	4.336	96	62955	17.208	ug/l	96
11) Methyl Iodide	4.583	142	37416	12.989	ug/l	88
12) Methyl Acetate	5.018	43	111874	16.571	ug/l	100
13) Acrolein	4.171	56	117665	114.109	ug/l	98
14) Acrylonitrile	5.707	53	244735	83.015	ug/l	99
15) Acetone	4.424	58	85935	102.019	ug/l	95
16) Carbon Disulfide	4.701	76	193011	17.007	ug/l	96
17) Allyl chloride	5.012	41	126853	17.011	ug/l	100
18) Methylene Chloride	5.265	84	80466	17.085	ug/l	100
19) trans-1,2-Dichloroethene	5.771	96	72299	16.618	ug/l	91
20) Diisopropyl ether	6.659	45	281091	16.547	ug/l	98
21) 1,1-Dichloroethane	6.554	63	151335	17.234	ug/l	99
22) cis-1,2-Dichloroethene	7.471	96	91637	17.118	ug/l	97
23) tert-Butyl Alcohol	5.518	59	92315	73.692	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	286409m	17.180	ug/l	
25) Chloroform	7.948	83	160183	17.476	ug/l	97
26) Cyclohexane	8.236	56	119652	17.019	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	103283	16.851	ug/l	98
30) 2-Butanone	7.471	43	386613	85.575	ug/l	99
31) 2,2-Dichloropropane	7.471	77	138879	17.569	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	134451	17.200	ug/l	96
33) Carbon Tetrachloride	8.342	117	110701	17.047	ug/l	98
34) Benzene	8.589	78	322241	16.656	ug/l	97
35) Methacrylonitrile	7.759	41	76916	15.777	ug/l	98
36) 1,2-Dichloroethane	8.653	62	131713	16.844	ug/l	99
37) Trichloroethene	9.336	130	71801	16.848	ug/l	92
38) Methylcyclohexane	9.583	83	117555	16.533	ug/l	97
39) 1,2-Dichloropropane	9.600	63	84228	16.980	ug/l	94
40) Dibromomethane	9.689	93	63631	17.097	ug/l	99
41) Bromodichloromethane	9.865	83	127957	16.545	ug/l	95
42) Vinyl Acetate	6.595	43	1267209	85.174	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.548	43	150374	17.229	ug/l #	77
44) Isopropyl Acetate	8.671	43	243450	16.455	ug/l	99
45) 1,4-Dioxane	9.683	88	29726	315.176	ug/l	99
46) Methyl methacrylate	9.665	41	113405	16.239	ug/l	95
47) n-amyl Acetate	12.524	43	133897m	16.383	ug/l	
48) t-1,3-Dichloropropene	10.818	75	135994	16.163	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	140264	16.565	ug/l	98
50) 1,1,2-Trichloroethane	10.994	97	77842	16.554	ug/l	92
51) Ethyl methacrylate	10.853	69	138837	16.764	ug/l	97
52) 1,3-Dichloropropane	11.141	76	145659	17.193	ug/l	99
53) Dibromochloromethane	11.336	129	89509	16.482	ug/l	99
54) 1,2-Dibromoethane	11.453	107	83080	16.643	ug/l	100
55) 2-Chloroethyl vinyl ether	10.142	63	440652	101.073	ug/l	99
56) Bromoform	12.559	173	56097	15.617	ug/l #	99
58) 4-Methyl-2-Pentanone	10.424	43	723973	81.801	ug/l	99
59) 2-Hexanone	11.177	43	496699	82.598	ug/l	99
61) Tetrachloroethene	11.083	164	57259	17.083	ug/l	97
62) Toluene	10.612	91	349505	16.459	ug/l	98
64) Chlorobenzene	11.871	112	216560	16.597	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	77337	16.858	ug/l	98
66) Ethyl Benzene	11.941	91	397503	16.795	ug/l	97
67) m/p-Xylenes	12.047	106	286353	32.961	ug/l	99
68) o-Xylene	12.377	106	139062	16.271	ug/l	98
69) Styrene	12.388	104	236721	16.221	ug/l	97
70) Isopropylbenzene	12.677	105	365378	16.827	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	121586	16.342	ug/l	99
72) 1,2,3-Trichloropropane	12.971	75	121680m	17.556	ug/l	
73) Bromobenzene	12.959	156	83495	16.587	ug/l	97
74) n-propylbenzene	13.012	91	460576	16.984	ug/l	99
75) 2-Chlorotoluene	13.106	91	274308	16.444	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	308349	16.585	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	42406	16.163	ug/l	76
78) 4-Chlorotoluene	13.200	91	282550	16.715	ug/l	99
79) tert-butylbenzene	13.418	119	262028	16.716	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	315055	16.959	ug/l	98
81) sec-Butylbenzene	13.594	105	383694	16.814	ug/l	99
82) p-Isopropyltoluene	13.706	119	315331	16.643	ug/l	99
83) 1,3-Dichlorobenzene	13.712	146	158358	16.521	ug/l	97
84) 1,4-Dichlorobenzene	13.788	146	162399	16.711	ug/l	100
85) n-Butylbenzene	14.035	91	310873	16.770	ug/l	99
86) Hexachloroethane	14.306	117	60515	16.355	ug/l	94
87) 1,2-Dichlorobenzene	14.082	146	151059	16.510	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	29796	15.809	ug/l	96
89) 1,2,4-Trichlorobenzene	15.812	180	86670	15.850	ug/l	99
90) Hexachlorobutadiene	15.477	225	34476	16.214	ug/l	93
91) Naphthalene	15.612	128	329957	15.825	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	86670	15.850	ug/l	99

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

