

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087353.D
 Acq On : 18 Jul 2025 09:15
 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 07/21/2025
 Supervised By : Mahesh Dadoda 07/21/2025

Quant Time: Jul 18 23:14:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	46358	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.083	114	246415	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	220107	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	113605	32.525	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.400%			
60) 4-Bromofluorobenzene	12.829	95	107036	31.514	ug/l	-0.02
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.033%			
63) Toluene-d8	10.547	98	296684	30.020	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.067%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	44437	15.924	ug/l	99
3) Chloromethane	2.383	50	52502	18.420	ug/l	97
4) Vinyl Chloride	2.542	62	55153	17.804	ug/l	99
5) Bromomethane	2.977	94	32358	19.682	ug/l	88
6) Chloroethane	3.142	64	36445	21.932	ug/l	97
7) Trichlorofluoromethane	3.512	101	82490	21.710	ug/l	98
8) Diethyl Ether	3.965	74	34722m	18.599	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.371	101	44626m	15.841	ug/l	
10) 1,1-Dichloroethene	4.342	96	44111	15.708	ug/l	83
11) Methyl Iodide	4.583	142	45406	18.048	ug/l	81
12) Methyl Acetate	5.018	43	93314	21.184	ug/l	93
13) Acrolein	4.177	56	47724	70.510	ug/l	99
14) Acrylonitrile	5.706	53	191174	93.047	ug/l	98
15) Acetone	4.424	58	53705	89.609	ug/l	83
16) Carbon Disulfide	4.706	76	121756	14.829	ug/l	100
17) Allyl chloride	5.018	41	85793	18.523	ug/l	94
18) Methylene Chloride	5.271	84	62718	19.279	ug/l	96
19) trans-1,2-Dichloroethene	5.771	96	51726	16.843	ug/l	96
20) Diisopropyl ether	6.659	45	205164	20.878	ug/l	97
21) 1,1-Dichloroethane	6.553	63	111760	19.029	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	66017	18.471	ug/l	99
23) tert-Butyl Alcohol	5.524	59	69826	90.368	ug/l #	100
24) Methyl tert-Butyl Ether	5.783	73	196135	19.914	ug/l	98
25) Chloroform	7.953	83	113716	20.210	ug/l	99
26) Cyclohexane	8.241	56	80329	16.454	ug/l #	97
29) 1,1-Dichloropropene	8.353	75	73342	19.096	ug/l	98
30) 2-Butanone	7.471	43	271343	104.734	ug/l	96
31) 2,2-Dichloropropane	7.477	77	92394	19.929	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	94489	21.058	ug/l	99
33) Carbon Tetrachloride	8.341	117	79595	21.079	ug/l	97
34) Benzene	8.588	78	236944	19.473	ug/l	96
35) Methacrylonitrile	7.765	41	56967	21.818	ug/l	94
36) 1,2-Dichloroethane	8.653	62	88492	22.510	ug/l	100
37) Trichloroethene	9.335	130	52709	18.781	ug/l	100
38) Methylcyclohexane	9.583	83	79927	18.137	ug/l	97
39) 1,2-Dichloropropane	9.600	63	62218	20.373	ug/l	97
40) Dibromomethane	9.688	93	44019	21.197	ug/l	96
41) Bromodichloromethane	9.871	83	91595	21.852	ug/l #	98
42) Vinyl Acetate	6.595	43	836803	99.305	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	104626	22.371	ug/l	94
44) Isopropyl Acetate	8.677	43	164459	21.582	ug/l	98
45) 1,4-Dioxane	9.677	88	22450	435.529	ug/l	98
46) Methyl methacrylate	9.665	41	76833	21.690	ug/l	90
47) n-amyl Acetate	12.518	43	110510m	23.721	ug/l	
48) t-1,3-Dichloropropene	10.818	75	96762	20.708	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	100992	20.330	ug/l	93
50) 1,1,2-Trichloroethane	10.994	97	59421	20.144	ug/l	96
51) Ethyl methacrylate	10.853	69	95191	21.202	ug/l	95
52) 1,3-Dichloropropane	11.141	76	106028	20.936	ug/l	99
53) Dibromochloromethane	11.341	129	68283	22.052	ug/l	97
54) 1,2-Dibromoethane	11.447	107	60238	19.793	ug/l	98
55) 2-Chloroethyl vinyl ether	10.141	63	263740	102.481	ug/l	99
56) Bromoform	12.559	173	44831	21.061	ug/l #	99
58) 4-Methyl-2-Pentanone	10.430	43	522358	118.048	ug/l	97
59) 2-Hexanone	11.177	43	359424	125.791	ug/l	91
61) Tetrachloroethene	11.082	164	45226	20.748	ug/l	98
62) Toluene	10.612	91	248127	19.960	ug/l	99
64) Chlorobenzene	11.871	112	160479	20.238	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.941	131	58313	22.256	ug/l	96
66) Ethyl Benzene	11.941	91	267868	19.686	ug/l	98
67) m/p-Xylenes	12.053	106	208770	40.039	ug/l	100
68) o-Xylene	12.376	106	101235	20.351	ug/l	100
69) Styrene	12.388	104	170293	19.940	ug/l	98
70) Isopropylbenzene	12.676	105	258198	20.841	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	91263	20.465	ug/l	97
72) 1,2,3-Trichloropropane	12.971	75	88323m	22.968	ug/l	
73) Bromobenzene	12.959	156	65368	21.751	ug/l	92
74) n-propylbenzene	13.018	91	310937	20.544	ug/l	98
75) 2-Chlorotoluene	13.106	91	187392	20.493	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	215176	21.335	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	32334	18.956	ug/l	94
78) 4-Chlorotoluene	13.200	91	198075	21.150	ug/l	99
79) tert-butylbenzene	13.418	119	182171	21.488	ug/l	97
80) 1,2,4-Trimethylbenzene	13.459	105	217511	21.477	ug/l	96
81) sec-Butylbenzene	13.594	105	264335	21.448	ug/l	98
82) p-Isopropyltoluene	13.706	119	227385	22.171	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	123794	21.391	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	117522	20.178	ug/l	93
85) n-Butylbenzene	14.035	91	209441	22.382	ug/l	99
86) Hexachloroethane	14.312	117	42865	22.079	ug/l	93
87) 1,2-Dichlorobenzene	14.082	146	117001	21.442	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.694	75	19921	19.839	ug/l	96
89) 1,2,4-Trichlorobenzene	15.817	180	68248	22.107	ug/l	99
90) Hexachlorobutadiene	15.470	225	28055	30.624	ug/l	96
91) Naphthalene	15.617	128	248488	20.451	ug/l	99
92) 1,2,3-Trichlorobenzene	15.817	180	68248	22.107	ug/l	99

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

