

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087366.D
 Acq On : 18 Jul 2025 15:02
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Jul 18 23:21:09 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

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/21/2025
 Supervised By : Mahesh Dadoda 07/21/2025

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

Internal Standards						
1) Bromochloromethane	7.794	128	39739	30.000	ug/l	-0.03
28) 1,4-Difluorobenzene	9.082	114	205705	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	188837	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	99078	33.091	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.300%#			
60) 4-Bromofluorobenzene	12.829	95	90388	31.019	ug/l	-0.02
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.400%			
63) Toluene-d8	10.547	98	253758	29.929	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	34649	14.485	ug/l	93
3) Chloromethane	2.389	50	42434	17.368	ug/l	98
4) Vinyl Chloride	2.542	62	44038	16.584	ug/l	92
5) Bromomethane	2.983	94	20138	14.290	ug/l	91
6) Chloroethane	3.142	64	28644	20.109	ug/l	94
7) Trichlorofluoromethane	3.512	101	67336	20.673	ug/l	98
8) Diethyl Ether	3.959	74	27846	17.401	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.365	101	37877	15.685	ug/l #	88
10) 1,1-Dichloroethene	4.336	96	38042	15.803	ug/l	88
11) Methyl Iodide	4.577	142	25827	11.976	ug/l	85
12) Methyl Acetate	5.024	43	80392	21.291	ug/l	96
13) Acrolein	4.177	56	40971	70.615	ug/l	96
14) Acrylonitrile	5.712	53	163062	92.584	ug/l	99
15) Acetone	4.424	58	42381	82.493	ug/l	99
16) Carbon Disulfide	4.694	76	99295	14.108	ug/l	98
17) Allyl chloride	5.012	41	70101	17.656	ug/l	98
18) Methylene Chloride	5.271	84	48629m	17.438	ug/l	
19) trans-1,2-Dichloroethene	5.783	96	42618m	16.189	ug/l	
20) Diisopropyl ether	6.659	45	166807	19.802	ug/l	97
21) 1,1-Dichloroethane	6.559	63	91146	18.104	ug/l	98
22) cis-1,2-Dichloroethene	7.477	96	54092	17.655	ug/l	98
23) tert-Butyl Alcohol	5.530	59	56942	85.968	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	160988	19.068	ug/l	99
25) Chloroform	7.953	83	95477	19.795	ug/l	98
26) Cyclohexane	8.247	56	64331	15.372	ug/l #	96
29) 1,1-Dichloropropene	8.359	75	58874	18.363	ug/l	98
30) 2-Butanone	7.471	43	231573	107.073	ug/l	96
31) 2,2-Dichloropropane	7.477	77	76507	19.768	ug/l	97
32) 1,1,1-Trichloroethane	8.153	97	78841	21.048	ug/l	97
33) Carbon Tetrachloride	8.347	117	65186	20.680	ug/l	97
34) Benzene	8.588	78	193652	19.065	ug/l	97
35) Methacrylonitrile	7.765	41	48937	22.452	ug/l	96
36) 1,2-Dichloroethane	8.659	62	74223	22.616	ug/l	98
37) Trichloroethene	9.335	130	46803	19.977	ug/l	97
38) Methylcyclohexane	9.582	83	61719	16.777	ug/l	98
39) 1,2-Dichloropropane	9.606	63	53495	20.983	ug/l	93
40) Dibromomethane	9.688	93	36400	20.997	ug/l	97
41) Bromodichloromethane	9.871	83	77662	22.195	ug/l	97
42) Vinyl Acetate	6.594	43	690434	98.151	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	88230	22.598	ug/l	94
44) Isopropyl Acetate	8.677	43	140611	22.105	ug/l	98
45) 1,4-Dioxane	9.688	88	16962	394.185	ug/l #	92
46) Methyl methacrylate	9.665	41	67280	22.752	ug/l	88
47) n-amyl Acetate	12.523	43	72641m	18.678	ug/l	
48) t-1,3-Dichloropropene	10.818	75	78646	20.162	ug/l	97
49) cis-1,3-Dichloropropene	10.294	75	84567	20.393	ug/l	96
50) 1,1,2-Trichloroethane	10.994	97	52137	21.172	ug/l	94
51) Ethyl methacrylate	10.859	69	77016	20.548	ug/l	93
52) 1,3-Dichloropropane	11.147	76	87477	20.692	ug/l	99
53) Dibromochloromethane	11.341	129	56431	21.831	ug/l	96
54) 1,2-Dibromoethane	11.453	107	51688	20.345	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	218798	101.843	ug/l	99
56) Bromoform	12.559	173	36430	20.501	ug/l #	97
58) 4-Methyl-2-Pentanone	10.429	43	466967	123.005	ug/l	94
59) 2-Hexanone	11.182	43	308090	125.680	ug/l	90
61) Tetrachloroethene	11.088	164	38307	20.484	ug/l	84
62) Toluene	10.612	91	208125	19.514	ug/l	99
64) Chlorobenzene	11.870	112	132857	19.529	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	47062	20.936	ug/l	96
66) Ethyl Benzene	11.941	91	216892	18.580	ug/l	97
67) m/p-Xylenes	12.053	106	170855	38.194	ug/l	97
68) o-Xylene	12.376	106	82143	19.247	ug/l	99
69) Styrene	12.388	104	142002	19.381	ug/l	98
70) Isopropylbenzene	12.676	105	209371	19.698	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	81104	21.199	ug/l	99
72) 1,2,3-Trichloropropane	12.976	75	78207m	23.705	ug/l	
73) Bromobenzene	12.965	156	53362	20.696	ug/l	95
74) n-propylbenzene	13.017	91	261124	20.109	ug/l	99
75) 2-Chlorotoluene	13.106	91	158474	20.201	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	178464	20.625	ug/l	98
77) t-1,4-Dichloro-2-butene	12.723	75	24483	16.730	ug/l	93
78) 4-Chlorotoluene	13.200	91	170450	21.214	ug/l	98
79) tert-butylbenzene	13.417	119	154523	21.245	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	185948	21.401	ug/l	95
81) sec-Butylbenzene	13.594	105	219360	20.746	ug/l	99
82) p-Isopropyltoluene	13.706	119	189305	21.514	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	102517	20.648	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	102332	20.479	ug/l	97
85) n-Butylbenzene	14.035	91	172341	21.467	ug/l	99
86) Hexachloroethane	14.311	117	34549	20.743	ug/l	96
87) 1,2-Dichlorobenzene	14.082	146	100966	21.567	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	17987	20.879	ug/l	96
89) 1,2,4-Trichlorobenzene	15.817	180	57700	21.785	ug/l	96
90) Hexachlorobutadiene	15.476	225	23839	30.331	ug/l	95
91) Naphthalene	15.611	128	200523	19.237	ug/l	100
92) 1,2,3-Trichlorobenzene	15.817	180	57700	21.785	ug/l	96

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

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