

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087408.D
 Acq On : 24 Jul 2025 09:13
 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

07/25/2025

Supervised By :Mahesh

Dadoda

07/25/2025

Quant Time: Jul 25 04:50:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	26796	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	129996	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	122075	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	68763	31.115	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.733%			
60) 4-Bromofluorobenzene	12.829	95	60349	29.632	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.767%			
63) Toluene-d8	10.547	98	166151	29.928	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.767%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	33470	20.414	ug/l	92
3) Chloromethane	2.383	50	32556	19.991	ug/l	95
4) Vinyl Chloride	2.542	62	35224	19.625	ug/l #	88
5) Bromomethane	2.983	94	23724m	21.360	ug/l	
6) Chloroethane	3.142	64	27611	20.017	ug/l	91
7) Trichlorofluoromethane	3.512	101	62295	20.409	ug/l	94
8) Diethyl Ether	3.959	74	24033	19.779	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	32391	20.024	ug/l #	68
10) 1,1-Dichloroethene	4.336	96	33256	19.802	ug/l #	87
11) Methyl Iodide	4.577	142	20421	16.669	ug/l	80
12) Methyl Acetate	5.018	43	43643	19.979	ug/l	98
13) Acrolein	4.177	56	45396	114.311	ug/l	99
14) Acrylonitrile	5.712	53	92123	92.346	ug/l	97
15) Acetone	4.418	58	41262	117.155	ug/l	95
16) Carbon Disulfide	4.706	76	84325	19.442	ug/l	99
17) Allyl chloride	5.012	41	44450	19.321	ug/l	87
18) Methylene Chloride	5.265	84	33544	19.735	ug/l #	84
19) trans-1,2-Dichloroethene	5.777	96	31172	18.900	ug/l	98
20) Diisopropyl ether	6.665	45	104968	18.043	ug/l	96
21) 1,1-Dichloroethane	6.553	63	62326	20.058	ug/l	94
22) cis-1,2-Dichloroethene	7.471	96	37504	19.413	ug/l	97
23) tert-Butyl Alcohol	5.524	59	33696	98.556	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	104386	19.234	ug/l	99
25) Chloroform	7.953	83	63970	18.797	ug/l	95
26) Cyclohexane	8.241	56	40800	17.613	ug/l #	95
29) 1,1-Dichloropropene	8.353	75	39802	17.946	ug/l	99
30) 2-Butanone	7.471	43	138226	91.513	ug/l	99
31) 2,2-Dichloropropane	7.471	77	57150	19.621	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	56193	19.359	ug/l	98
33) Carbon Tetrachloride	8.347	117	46566	18.466	ug/l	91
34) Benzene	8.588	78	135901	18.972	ug/l	99
35) Methacrylonitrile	7.765	41	27324	17.202	ug/l	90
36) 1,2-Dichloroethane	8.653	62	54466	19.274	ug/l	100
37) Trichloroethene	9.336	130	30972	18.947	ug/l	91
38) Methylcyclohexane	9.583	83	41538	17.717	ug/l	100
39) 1,2-Dichloropropane	9.606	63	33349	18.532	ug/l	90
40) Dibromomethane	9.688	93	27148	19.499	ug/l	99
41) Bromodichloromethane	9.871	83	52302	18.920	ug/l	91
42) Vinyl Acetate	6.595	43	456154	89.150	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.553	43	52375	17.033	ug/l	#	75
44) Isopropyl Acetate	8.677	43	88137	18.156	ug/l		98
45) 1,4-Dioxane	9.683	88	11567	386.743	ug/l	#	67
46) Methyl methacrylate	9.665	41	38319	17.141	ug/l		93
47) n-amyl Acetate	12.518	43	50857m	17.482	ug/l		
48) t-1,3-Dichloropropene	10.818	75	54764	18.571	ug/l		97
49) cis-1,3-Dichloropropene	10.294	75	54970	18.639	ug/l		96
50) 1,1,2-Trichloroethane	10.994	97	33899	18.853	ug/l		88
51) Ethyl methacrylate	10.859	69	47667	17.335	ug/l		95
52) 1,3-Dichloropropane	11.141	76	56142	18.160	ug/l		99
53) Dibromochloromethane	11.341	129	39226	18.613	ug/l		98
54) 1,2-Dibromoethane	11.447	107	34334	18.629	ug/l		99
55) 2-Chloroethyl vinyl ether	10.141	63	132479	86.608	ug/l		99
56) Bromoform	12.565	173	24683	16.468	ug/l	#	96
58) 4-Methyl-2-Pentanone	10.424	43	281209	94.206	ug/l		100
59) 2-Hexanone	11.182	43	185336	91.986	ug/l		99
61) Tetrachloroethene	11.082	164	27228	19.973	ug/l	#	87
62) Toluene	10.612	91	142921	19.224	ug/l		95
64) Chlorobenzene	11.871	112	87415	18.391	ug/l		91
65) 1,1,1,2-Tetrachloroethane	11.941	131	33330	19.189	ug/l		97
66) Ethyl Benzene	11.947	91	147102	18.276	ug/l		97
67) m/p-Xylenes	12.053	106	115816	36.360	ug/l		99
68) o-Xylene	12.376	106	55943	18.309	ug/l		99
69) Styrene	12.394	104	94024	17.687	ug/l		97
70) Isopropylbenzene	12.676	105	138372	17.981	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.918	83	50971	18.829	ug/l		97
72) 1,2,3-Trichloropropane	12.971	75	43446m	17.965	ug/l		
73) Bromobenzene	12.959	156	36932	18.439	ug/l		97
74) n-propylbenzene	13.018	91	173189	17.822	ug/l		97
75) 2-Chlorotoluene	13.106	91	102359	17.538	ug/l		99
76) 1,3,5-Trimethylbenzene	13.153	105	120006	17.929	ug/l		99
77) t-1,4-Dichloro-2-butene	12.724	75	15361	15.893	ug/l		95
78) 4-Chlorotoluene	13.200	91	112080	18.005	ug/l		98
79) tert-butylbenzene	13.418	119	100347	17.652	ug/l		99
80) 1,2,4-Trimethylbenzene	13.459	105	122251	17.891	ug/l		100
81) sec-Butylbenzene	13.594	105	148791	18.136	ug/l		99
82) p-Isopropyltoluene	13.706	119	123715	17.570	ug/l		96
83) 1,3-Dichlorobenzene	13.712	146	73172	18.131	ug/l		99
84) 1,4-Dichlorobenzene	13.788	146	71813	18.028	ug/l		97
85) n-Butylbenzene	14.035	91	112446	17.339	ug/l		99
86) Hexachloroethane	14.312	117	25034	18.270	ug/l		100
87) 1,2-Dichlorobenzene	14.082	146	67374	17.731	ug/l		97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	10795	17.139	ug/l		94
89) 1,2,4-Trichlorobenzene	15.812	180	39293	17.926	ug/l		97
90) Hexachlorobutadiene	15.476	225	15620	17.277	ug/l		91
91) Naphthalene	15.617	128	123107	16.874	ug/l		99
92) 1,2,3-Trichlorobenzene	15.812	180	39293	17.926	ug/l		97

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

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