

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087399.D
 Acq On : 23 Jul 2025 10:08
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:46:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 04:45:45 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	30329	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	141214	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	131168	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	76240	30.376	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.267%			
60) 4-Bromofluorobenzene	12.829	95	59476	27.194	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.633%			
63) Toluene-d8	10.547	98	193491	32.040	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 106.800%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	6392	3.596	ug/l	97
3) Chloromethane	2.389	50	7367	4.105	ug/l #	88
4) Vinyl Chloride	2.536	62	8935	4.453	ug/l	100
5) Bromomethane	2.977	94	4879	4.262	ug/l #	81
6) Chloroethane	3.142	64	7418	4.808	ug/l #	85
7) Trichlorofluoromethane	3.506	101	17065	4.983	ug/l	98
8) Diethyl Ether	3.971	74	6294m	4.718	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.365	101	8840m	4.986	ug/l	
10) 1,1-Dichloroethene	4.342	96	9748	5.305	ug/l #	90
11) Methyl Iodide	4.583	142	3317	2.549	ug/l #	71
12) Methyl Acetate	5.030	43	10503m	4.406	ug/l	
13) Acrolein	4.171	56	8698m	21.131	ug/l	
14) Acrylonitrile	5.700	53	21230	19.587	ug/l #	41
15) Acetone	4.430	58	9607	25.396	ug/l	89
16) Carbon Disulfide	4.701	76	22699	4.805	ug/l	98
17) Allyl chloride	5.018	41	10063m	3.974	ug/l	
18) Methylene Chloride	5.259	84	8941m	4.792	ug/l	
19) trans-1,2-Dichloroethene	5.783	96	7810m	4.377	ug/l	
20) Diisopropyl ether	6.659	45	22412	3.537	ug/l #	97
21) 1,1-Dichloroethane	6.553	63	16434	4.733	ug/l #	91
22) cis-1,2-Dichloroethene	7.477	96	9164	4.312	ug/l	94
23) tert-Butyl Alcohol	5.506	59	8660m	23.461	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	21257	3.630	ug/l #	70
25) Chloroform	7.947	83	17710	4.718	ug/l	89
26) Cyclohexane	8.241	56	10681m	4.144	ug/l	
29) 1,1-Dichloropropene	8.353	75	10484	4.391	ug/l #	61
30) 2-Butanone	7.471	43	33276	20.716	ug/l #	98
31) 2,2-Dichloropropane	7.471	77	14653	4.673	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	14413	4.645	ug/l #	77
33) Carbon Tetrachloride	8.341	117	12846m	4.714	ug/l	
34) Benzene	8.594	78	32650	4.291	ug/l #	95
35) Methacrylonitrile	7.765	41	6034m	3.636	ug/l	
36) 1,2-Dichloroethane	8.659	62	13794m	4.535	ug/l	
37) Trichloroethene	9.330	130	9216	5.177	ug/l #	64
38) Methylcyclohexane	9.583	83	9758	3.951	ug/l	84
39) 1,2-Dichloropropane	9.612	63	8259m	4.320	ug/l	
40) Dibromomethane	9.688	93	7108	4.710	ug/l	80
41) Bromodichloromethane	9.871	83	13999	4.685	ug/l #	95
42) Vinyl Acetate	6.595	43	103034	18.732	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	12664	3.773	ug/l	99
44) Isopropyl Acetate	8.677	43	18453	3.616	ug/l	98
45) 1,4-Dioxane	9.683	88	2192	70.208	ug/l #	44
46) Methyl methacrylate	9.665	41	7848	3.349	ug/l	91
47) n-amyl Acetate	12.682	43	11124m	4.222	ug/l	
48) t-1,3-Dichloropropene	10.818	75	12463	3.962	ug/l	90
49) cis-1,3-Dichloropropene	10.294	75	13118	4.125	ug/l	95
50) 1,1,2-Trichloroethane	11.000	97	8820	4.559	ug/l	95
51) Ethyl methacrylate	10.859	69	8660m	2.958	ug/l	
52) 1,3-Dichloropropane	11.147	76	14008	4.270	ug/l	98
53) Dibromochloromethane	11.335	129	9671	4.255	ug/l	95
54) 1,2-Dibromoethane	11.453	107	9221	4.554	ug/l	90
55) 2-Chloroethyl vinyl ether	10.141	63	18742	11.946	ug/l	97
56) Bromoform	12.559	173	6350	3.957	ug/l #	94
58) 4-Methyl-2-Pentanone	10.430	43	61300	19.504	ug/l	98
59) 2-Hexanone	11.182	43	35666	16.683	ug/l	93
61) Tetrachloroethene	11.088	164	7784	5.290	ug/l	92
62) Toluene	10.612	91	37164	4.699	ug/l	98
64) Chlorobenzene	11.871	112	22760	4.550	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	8525	4.634	ug/l	95
66) Ethyl Benzene	11.941	91	33452	3.963	ug/l	98
67) m/p-Xylenes	12.053	106	25909	7.681	ug/l	97
68) o-Xylene	12.376	106	11477	3.630	ug/l	94
69) Styrene	12.394	104	18874	3.394	ug/l	94
70) Isopropylbenzene	12.676	105	29462	3.635	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.918	83	13210	4.560	ug/l	90
72) 1,2,3-Trichloropropane	12.976	75	11468m	3.125	ug/l	
73) Bromobenzene	12.965	156	8685	4.108	ug/l	81
74) n-propylbenzene	13.018	91	40102	3.893	ug/l	97
75) 2-Chlorotoluene	13.100	91	23645	3.888	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	25169	3.589	ug/l	100
77) t-1,4-Dichloro-2-butene	12.729	75	3016	3.003	ug/l #	73
78) 4-Chlorotoluene	13.206	91	24481	3.752	ug/l	96
79) tert-butylbenzene	13.418	119	20777	3.514	ug/l	95
80) 1,2,4-Trimethylbenzene	13.459	105	24400	3.399	ug/l	98
81) sec-Butylbenzene	13.594	105	31763	3.682	ug/l	99
82) p-Isopropyltoluene	13.712	119	25168	3.407	ug/l	97
83) 1,3-Dichlorobenzene	13.712	146	17794	4.173	ug/l	98
84) 1,4-Dichlorobenzene	13.794	146	17455	4.142	ug/l	99
85) n-Butylbenzene	14.035	91	22815	3.381	ug/l	98
86) Hexachloroethane	14.318	117	6249m	4.301	ug/l	
87) 1,2-Dichlorobenzene	14.082	146	17091	4.226	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.694	75	2976	4.533	ug/l #	65
89) 1,2,4-Trichlorobenzene	15.812	180	9026	3.912	ug/l	97
90) Hexachlorobutadiene	15.476	225	4303	4.510	ug/l #	38
91) Naphthalene	15.617	128	24248	3.192	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	9026	3.912	ug/l	97

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

