

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111325\
 Data File : VN088274.D
 Acq On : 13 Nov 2025 10:14
 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 11/14/2025
 Supervised By : Semsettin Yesilyurt 11/14/2025

Quant Time: Nov 14 00:31:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 14 00:31:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.794	128	59982	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	315158	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	280094	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	163453	33.778	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.600%#			
60) 4-Bromofluorobenzene	12.829	95	134269	29.108	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.033%			
63) Toluene-d8	10.547	98	397107	31.297	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.333%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	15397	4.199	ug/l	99
3) Chloromethane	2.389	50	20933	5.188	ug/l	98
4) Vinyl Chloride	2.536	62	21649	5.144	ug/l	95
5) Bromomethane	2.977	94	12485	5.542	ug/l	87
6) Chloroethane	3.136	64	13983	5.095	ug/l	93
7) Trichlorofluoromethane	3.512	101	29208	5.032	ug/l	91
8) Diethyl Ether	3.959	74	12849	5.169	ug/l	81
9) 1,1,2-Trichlorotrifluo...	4.365	101	15868m	5.132	ug/l	
10) 1,1-Dichloroethene	4.330	96	15573	4.823	ug/l	95
11) Methyl Iodide	4.583	142	12669	4.056	ug/l	92
12) Methyl Acetate	5.012	43	26727	5.139	ug/l	96
13) Acrolein	4.171	56	22260m	28.039	ug/l	
14) Acrylonitrile	5.706	53	60558	24.465	ug/l	99
15) Acetone	4.430	58	16946	23.407	ug/l	93
16) Carbon Disulfide	4.712	76	52263m	5.069	ug/l	
17) Allyl chloride	5.018	41	31489	5.167	ug/l	97
18) Methylene Chloride	5.265	84	21639	5.317	ug/l	93
19) trans-1,2-Dichloroethene	5.771	96	19169	5.139	ug/l #	81
20) Diisopropyl ether	6.659	45	67510	4.944	ug/l	97
21) 1,1-Dichloroethane	6.553	63	38262	5.276	ug/l	98
22) cis-1,2-Dichloroethene	7.465	96	22622	4.954	ug/l #	90
23) tert-Butyl Alcohol	5.524	59	26385m	27.232	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	65238	4.803	ug/l #	82
25) Chloroform	7.953	83	38596	5.219	ug/l	93
26) Cyclohexane	8.229	56	28299m	4.661	ug/l	
29) 1,1-Dichloropropene	8.347	75	25434	5.410	ug/l	98
30) 2-Butanone	7.471	43	87884	26.404	ug/l #	98
31) 2,2-Dichloropropane	7.477	77	31772m	5.318	ug/l	
32) 1,1,1-Trichloroethane	8.147	97	32744	5.623	ug/l	98
33) Carbon Tetrachloride	8.341	117	27520	5.603	ug/l	85
34) Benzene	8.588	78	81926	5.397	ug/l #	93
35) Methacrylonitrile	7.759	41	18631	5.343	ug/l	93
36) 1,2-Dichloroethane	8.653	62	30747	5.714	ug/l	97
37) Trichloroethene	9.335	130	18362	5.154	ug/l	84
38) Methylcyclohexane	9.582	83	26740	4.668	ug/l	98
39) 1,2-Dichloropropane	9.600	63	21746	5.698	ug/l	99
40) Dibromomethane	9.688	93	15320	5.523	ug/l	99
41) Bromodichloromethane	9.865	83	29744	5.289	ug/l #	94
42) Vinyl Acetate	6.588	43	276230	24.145	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	35436	5.467	ug/l #	81
44) Isopropyl Acetate	8.671	43	51550	4.931	ug/l	96
45) 1,4-Dioxane	9.682	88	6293	92.862	ug/l #	93
46) Methyl methacrylate	9.665	41	22745	4.800	ug/l	93
47) n-amyl Acetate	13.111	43	27105m	5.506	ug/l	
48) t-1,3-Dichloropropene	10.818	75	30392	4.911	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	31815	4.902	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	19062	5.278	ug/l	95
51) Ethyl methacrylate	10.859	69	26099m	4.302	ug/l	
52) 1,3-Dichloropropane	11.141	76	33732	5.305	ug/l	97
53) Dibromochloromethane	11.341	129	20062	4.685	ug/l	99
54) 1,2-Dibromoethane	11.447	107	19322	5.037	ug/l	90
55) 2-Chloroethyl vinyl ether	10.135	63	84863	25.902	ug/l	98
56) Bromoform	12.559	173	12003	4.198	ug/l #	99
58) 4-Methyl-2-Pentanone	10.429	43	152747	24.280	ug/l	100
59) 2-Hexanone	11.182	43	86444	20.905	ug/l	91
61) Tetrachloroethene	11.082	164	14222	4.941	ug/l	97
62) Toluene	10.612	91	80108	4.996	ug/l	99
64) Chlorobenzene	11.870	112	51274	5.070	ug/l	91
65) 1,1,1,2-Tetrachloroethane	11.941	131	17465	5.028	ug/l	100
66) Ethyl Benzene	11.941	91	82280	4.718	ug/l	90
67) m/p-Xylenes	12.053	106	61616	9.227	ug/l	96
68) o-Xylene	12.376	106	28878	4.411	ug/l	96
69) Styrene	12.394	104	47137	4.312	ug/l	97
70) Isopropylbenzene	12.670	105	74065	4.517	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.917	83	26814	4.879	ug/l	99
72) 1,2,3-Trichloropropane	12.976	75	28504m	5.588	ug/l	
73) Bromobenzene	12.959	156	18184	4.642	ug/l	98
74) n-propylbenzene	13.011	91	93306	4.685	ug/l	99
75) 2-Chlorotoluene	13.106	91	60165	4.967	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	61542	4.437	ug/l	99
77) t-1,4-Dichloro-2-butene	12.717	75	6714m	3.347	ug/l	
78) 4-Chlorotoluene	13.206	91	57871	4.703	ug/l	98
79) tert-butylbenzene	13.417	119	54661	4.578	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	59703	4.320	ug/l	99
81) sec-Butylbenzene	13.594	105	77820	4.567	ug/l	98
82) p-Isopropyltoluene	13.706	119	61858	4.288	ug/l	98
83) 1,3-Dichlorobenzene	13.717	146	33873	4.543	ug/l	96
84) 1,4-Dichlorobenzene	13.794	146	35917	4.716	ug/l	95
85) n-Butylbenzene	14.035	91	56470	4.165	ug/l	97
86) Hexachloroethane	14.311	117	13194	4.616	ug/l	98
87) 1,2-Dichlorobenzene	14.094	146	33084	4.551	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	6096	4.899	ug/l	99
89) 1,2,4-Trichlorobenzene	15.817	180	18113	4.257	ug/l	98
90) Hexachlorobutadiene	15.470	225	7223	4.707	ug/l	96
91) Naphthalene	15.617	128	61691	3.973	ug/l	98
92) 1,2,3-Trichlorobenzene	15.817	180	18113	4.257	ug/l	98

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

