

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072325\
 Data File : VN087400.D
 Acq On : 23 Jul 2025 10:29
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

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

Quant Time: Jul 24 04:47:20 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	7.794	128	27767	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	130417	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	128421	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	69707	30.336	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.133%			
60) 4-Bromofluorobenzene	12.829	95	60978	28.477	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.933%			
63) Toluene-d8	10.547	98	176153	29.793	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.300%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	33446	20.550	ug/l	100
3) Chloromethane	2.389	50	32954	20.058	ug/l	100
4) Vinyl Chloride	2.542	62	34020	18.517	ug/l	100
5) Bromomethane	2.989	94	20154	19.231	ug/l	100
6) Chloroethane	3.142	64	28529	20.198	ug/l	100
7) Trichlorofluoromethane	3.512	101	62955	20.078	ug/l	100
8) Diethyl Ether	3.965	74	24291	19.888	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	32851	20.239	ug/l	100
10) 1,1-Dichloroethene	4.342	96	32616	19.387	ug/l	100
11) Methyl Iodide	4.583	142	16774	14.077	ug/l	100
12) Methyl Acetate	5.018	43	41499	19.014	ug/l	100
13) Acrolein	4.183	56	32964	87.471	ug/l	100
14) Acrylonitrile	5.712	53	91025	91.731	ug/l	100
15) Acetone	4.424	58	35454	102.368	ug/l	100
16) Carbon Disulfide	4.706	76	85211	19.703	ug/l	100
17) Allyl chloride	5.018	41	41684	17.980	ug/l	100
18) Methylene Chloride	5.271	84	35442m	20.748	ug/l	
19) trans-1,2-Dichloroethene	5.771	96	32316m	19.781	ug/l	
20) Diisopropyl ether	6.665	45	104596	18.029	ug/l	100
21) 1,1-Dichloroethane	6.559	63	60378	18.992	ug/l	100
22) cis-1,2-Dichloroethene	7.477	96	36718	18.870	ug/l	100
23) tert-Butyl Alcohol	5.524	59	31670	93.715	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	100511	18.748	ug/l	100
25) Chloroform	7.947	83	67390	19.610	ug/l	100
26) Cyclohexane	8.241	56	40984	17.368	ug/l	100
29) 1,1-Dichloropropene	8.353	75	40484	18.360	ug/l	100
30) 2-Butanone	7.471	43	133079	89.708	ug/l	100
31) 2,2-Dichloropropane	7.471	77	55199	19.061	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	56056	19.562	ug/l	100
33) Carbon Tetrachloride	8.347	117	48546	19.291	ug/l	100
34) Benzene	8.588	78	133184	18.952	ug/l	100
35) Methacrylonitrile	7.765	41	27134	17.703	ug/l	100
36) 1,2-Dichloroethane	8.653	62	55064	19.602	ug/l	100
37) Trichloroethene	9.335	130	30768	18.714	ug/l	100
38) Methylcyclohexane	9.582	83	39897	17.489	ug/l	100
39) 1,2-Dichloropropane	9.606	63	33853	19.172	ug/l	100
40) Dibromomethane	9.688	93	27550	19.767	ug/l	100
41) Bromodichloromethane	9.871	83	54322	19.684	ug/l	100
42) Vinyl Acetate	6.588	43	446972	87.987	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	57748	18.630	ug/l	100
44) Isopropyl Acetate	8.677	43	85629	18.168	ug/l	100
45) 1,4-Dioxane	9.682	88	11772	408.264	ug/l	100
46) Methyl methacrylate	9.665	41	38142	17.623	ug/l	100
47) n-amyl Acetate	12.512	43	45383m	18.652	ug/l	
48) t-1,3-Dichloropropene	10.818	75	52391	18.032	ug/l	100
49) cis-1,3-Dichloropropene	10.294	75	55661	18.950	ug/l	100
50) 1,1,2-Trichloroethane	10.994	97	34548	19.337	ug/l	100
51) Ethyl methacrylate	10.853	69	47990	17.749	ug/l	100
52) 1,3-Dichloropropane	11.141	76	57161	18.867	ug/l	100
53) Dibromochloromethane	11.341	129	40328	19.214	ug/l	100
54) 1,2-Dibromoethane	11.447	107	35413	18.935	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	157485	108.687	ug/l	100
56) Bromoform	12.559	173	26600	17.949	ug/l	100
58) 4-Methyl-2-Pentanone	10.429	43	282441	91.785	ug/l	100
59) 2-Hexanone	11.176	43	186567	89.134	ug/l	100
61) Tetrachloroethene	11.088	164	27708	19.234	ug/l	100
62) Toluene	10.612	91	142637	18.421	ug/l	100
64) Chlorobenzene	11.870	112	93071	19.004	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.935	131	34520	19.167	ug/l	100
66) Ethyl Benzene	11.947	91	142515	17.246	ug/l	100
67) m/p-Xylenes	12.053	106	118595	35.912	ug/l	100
68) o-Xylene	12.376	106	54870	17.727	ug/l	100
69) Styrene	12.388	104	95241	17.494	ug/l	100
70) Isopropylbenzene	12.676	105	140081	17.654	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	53302	18.794	ug/l	100
72) 1,2,3-Trichloropropane	12.970	75	46051m	12.817	ug/l	
73) Bromobenzene	12.959	156	37745	18.233	ug/l	100
74) n-propylbenzene	13.012	91	179285	17.779	ug/l	100
75) 2-Chlorotoluene	13.106	91	107691	18.087	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	121117	17.638	ug/l	100
77) t-1,4-Dichloro-2-butene	12.723	75	16109	16.381	ug/l	100
78) 4-Chlorotoluene	13.200	91	112420	17.596	ug/l	100
79) tert-butylbenzene	13.417	119	98238	16.969	ug/l	100
80) 1,2,4-Trimethylbenzene	13.459	105	123108	17.516	ug/l	99
81) sec-Butylbenzene	13.594	105	141966	16.808	ug/l	100
82) p-Isopropyltoluene	13.706	119	122521	16.942	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	74523	17.852	ug/l	100
84) 1,4-Dichlorobenzene	13.788	146	72591	17.595	ug/l	100
85) n-Butylbenzene	14.035	91	108977	16.497	ug/l	100
86) Hexachloroethane	14.312	117	24372	17.135	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	70006	17.679	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.694	75	10355	16.108	ug/l	100
89) 1,2,4-Trichlorobenzene	15.811	180	38903	17.224	ug/l	100
90) Hexachlorobutadiene	15.476	225	16919	18.113	ug/l	100
91) Naphthalene	15.611	128	118917	15.987	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	38903	17.224	ug/l	100

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

