

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080725\
 Data File : VN087483.D
 Acq On : 07 Aug 2025 10:00
 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 08/08/2025
 Supervised By : Mahesh Dadoda 08/08/2025

Quant Time: Aug 08 01:14:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	63498	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	347356	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	314308	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	173800	29.675	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.933%		
60) 4-Bromofluorobenzene	12.829	95	160074	29.594	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.633%		
63) Toluene-d8	10.547	98	439722	30.405	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.367%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	79651	19.213	ug/l	99
3) Chloromethane	2.383	50	83090	19.535	ug/l	97
4) Vinyl Chloride	2.536	62	88915	19.709	ug/l #	88
5) Bromomethane	2.983	94	48153	19.720	ug/l	90
6) Chloroethane	3.142	64	59921	20.598	ug/l	97
7) Trichlorofluoromethane	3.512	101	122596	18.882	ug/l	90
8) Diethyl Ether	3.965	74	54409	20.115	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	64107	19.363	ug/l	96
10) 1,1-Dichloroethene	4.336	96	69879	20.093	ug/l	97
11) Methyl Iodide	4.583	142	37866	13.828	ug/l	98
12) Methyl Acetate	5.024	43	131343m	20.466	ug/l	
13) Acrolein	4.177	56	124360	126.872	ug/l	99
14) Acrylonitrile	5.712	53	266629	95.143	ug/l	98
15) Acetone	4.424	58	84594	105.648	ug/l	100
16) Carbon Disulfide	4.700	76	201654	18.693	ug/l	98
17) Allyl chloride	5.006	41	138847m	19.588	ug/l	
18) Methylene Chloride	5.259	84	87779	19.606	ug/l #	88
19) trans-1,2-Dichloroethene	5.777	96	76991	18.616	ug/l	96
20) Diisopropyl ether	6.659	45	301613	18.678	ug/l	94
21) 1,1-Dichloroethane	6.553	63	161023	19.291	ug/l	98
22) cis-1,2-Dichloroethene	7.471	96	98213	19.301	ug/l	99
23) tert-Butyl Alcohol	5.524	59	111260	93.432	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	303730	19.167	ug/l	99
25) Chloroform	7.953	83	171872	19.726	ug/l	95
26) Cyclohexane	8.236	56	129047	19.309	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	109644	19.353	ug/l	98
30) 2-Butanone	7.471	43	419749	100.513	ug/l	99
31) 2,2-Dichloropropane	7.471	77	146812	20.092	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	141241	19.547	ug/l	97
33) Carbon Tetrachloride	8.347	117	114261	19.035	ug/l	98
34) Benzene	8.588	78	353413	19.762	ug/l	98
35) Methacrylonitrile	7.765	41	90032	19.978	ug/l	93
36) 1,2-Dichloroethane	8.653	62	142980	19.781	ug/l	100
37) Trichloroethene	9.335	130	78361	19.892	ug/l	84
38) Methylcyclohexane	9.582	83	120863	18.389	ug/l	98
39) 1,2-Dichloropropane	9.606	63	91199	19.889	ug/l	97
40) Dibromomethane	9.688	93	66010	19.187	ug/l	95
41) Bromodichloromethane	9.871	83	140866	19.705	ug/l	100
42) Vinyl Acetate	6.589	43	1350521	98.202	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	159330	19.749	ug/l	99
44) Isopropyl Acetate	8.677	43	266220	19.467	ug/l	100
45) 1,4-Dioxane	9.682	88	34093	391.059	ug/l	96
46) Methyl methacrylate	9.665	41	107778	16.696	ug/l	91
47) n-amyl Acetate	12.523	43	126438m	16.736	ug/l	
48) t-1,3-Dichloropropene	10.818	75	147956	19.024	ug/l	98
49) cis-1,3-Dichloropropene	10.294	75	155969	19.927	ug/l	97
50) 1,1,2-Trichloroethane	10.994	97	86709	19.948	ug/l	98
51) Ethyl methacrylate	10.859	69	147415	19.257	ug/l	97
52) 1,3-Dichloropropane	11.147	76	156131	19.937	ug/l	99
53) Dibromochloromethane	11.341	129	98080	19.538	ug/l	96
54) 1,2-Dibromoethane	11.447	107	90449	19.602	ug/l	99
55) 2-Chloroethyl vinyl ether	10.141	63	346444	85.967	ug/l	99
56) Bromoform	12.559	173	60780	18.306	ug/l #	99
58) 4-Methyl-2-Pentanone	10.429	43	812035	100.431	ug/l	100
59) 2-Hexanone	11.182	43	535992	97.565	ug/l	98
61) Tetrachloroethene	11.082	164	60076	19.619	ug/l	93
62) Toluene	10.612	91	385997	19.898	ug/l	98
64) Chlorobenzene	11.871	112	236023	19.800	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.941	131	83140	19.838	ug/l	98
66) Ethyl Benzene	11.941	91	424869	19.650	ug/l	99
67) m/p-Xylenes	12.047	106	309782	39.032	ug/l	96
68) o-Xylene	12.376	106	150621	19.291	ug/l	99
69) Styrene	12.394	104	260927	19.571	ug/l	99
70) Isopropylbenzene	12.676	105	382726	19.294	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.918	83	135822	19.983	ug/l	99
72) 1,2,3-Trichloropropane	12.976	75	134943m	21.312	ug/l	
73) Bromobenzene	12.959	156	90923	19.772	ug/l	97
74) n-propylbenzene	13.012	91	485735	19.607	ug/l	99
75) 2-Chlorotoluene	13.106	91	296250	19.440	ug/l	99
76) 1,3,5-Trimethylbenzene	13.153	105	331231	19.502	ug/l	99
77) t-1,4-Dichloro-2-butene	12.718	75	41109	17.151	ug/l	90
78) 4-Chlorotoluene	13.200	91	307564	19.916	ug/l	97
79) tert-butylbenzene	13.418	119	271425	18.954	ug/l	96
80) 1,2,4-Trimethylbenzene	13.459	105	333488	19.650	ug/l	100
81) sec-Butylbenzene	13.594	105	408532	19.596	ug/l	100
82) p-Isopropyltoluene	13.706	119	330199	19.076	ug/l	100
83) 1,3-Dichlorobenzene	13.712	146	173251	19.785	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	176355	19.864	ug/l	100
85) n-Butylbenzene	14.035	91	331418	19.569	ug/l	98
86) Hexachloroethane	14.312	117	63828	18.883	ug/l	98
87) 1,2-Dichlorobenzene	14.088	146	167238	20.007	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.700	75	33978	19.734	ug/l	97
89) 1,2,4-Trichlorobenzene	15.811	180	93029	18.623	ug/l	98
90) Hexachlorobutadiene	15.476	225	34638	17.832	ug/l	93
91) Naphthalene	15.611	128	363447	19.081	ug/l	100
92) 1,2,3-Trichlorobenzene	15.811	180	93029	18.623	ug/l	98

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

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