

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081825\
 Data File : VN087595.D
 Acq On : 18 Aug 2025 09:29
 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 08/18/2025
 Supervised By : Mahesh Dadoda 08/20/2025

Quant Time: Aug 18 09:46:31 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	60212	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	341524	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	305141	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	164887	29.690	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.967%		
60) 4-Bromofluorobenzene	12.829	95	154527	29.427	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.100%		
63) Toluene-d8	10.547	98	416103	29.636	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.800%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.148	85	67604	17.197	ug/l	97
3) Chloromethane	2.383	50	67258	16.675	ug/l	95
4) Vinyl Chloride	2.542	62	73731	17.235	ug/l	95
5) Bromomethane	2.977	94	32819	14.173	ug/l #	79
6) Chloroethane	3.136	64	50972	18.478	ug/l	96
7) Trichlorofluoromethane	3.506	101	108809	17.673	ug/l	99
8) Diethyl Ether	3.965	74	46794	18.244	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	59730	19.025	ug/l	86
10) 1,1-Dichloroethene	4.336	96	62970	19.095	ug/l	86
11) Methyl Iodide	4.583	142	39705	15.291	ug/l	97
12) Methyl Acetate	5.018	43	104810	17.223	ug/l	92
13) Acrolein	4.177	56	42993	46.255	ug/l	96
14) Acrylonitrile	5.712	53	215204	80.984	ug/l	100
15) Acetone	4.424	58	77708	102.345	ug/l	97
16) Carbon Disulfide	4.700	76	176742	17.278	ug/l	98
17) Allyl chloride	5.012	41	91304	13.584	ug/l	96
18) Methylene Chloride	5.259	84	72012	16.962	ug/l	90
19) trans-1,2-Dichloroethene	5.771	96	66006m	16.831	ug/l	
20) Diisopropyl ether	6.659	45	226596	14.798	ug/l	97
21) 1,1-Dichloroethane	6.553	63	130652	16.507	ug/l	96
22) cis-1,2-Dichloroethene	7.471	96	81042	16.795	ug/l	98
23) tert-Butyl Alcohol	5.530	59	102017	90.345	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	246861	16.428	ug/l	97
25) Chloroform	7.947	83	139237	16.853	ug/l	94
26) Cyclohexane	8.241	56	100985	15.935	ug/l #	94
29) 1,1-Dichloropropene	8.359	75	91959	16.509	ug/l	96
30) 2-Butanone	7.471	43	331640	80.771	ug/l	99
31) 2,2-Dichloropropane	7.471	77	119952	16.696	ug/l	99
32) 1,1,1-Trichloroethane	8.153	97	117333	16.516	ug/l	97
33) Carbon Tetrachloride	8.347	117	97130	16.457	ug/l	93
34) Benzene	8.588	78	281341	16.000	ug/l	100
35) Methacrylonitrile	7.765	41	70430	15.895	ug/l	94
36) 1,2-Dichloroethane	8.653	62	110969	15.614	ug/l	99
37) Trichloroethene	9.335	130	66048	17.052	ug/l	91
38) Methylcyclohexane	9.582	83	102433	15.851	ug/l	95
39) 1,2-Dichloropropane	9.600	63	74485	16.522	ug/l	98
40) Dibromomethane	9.694	93	56024	16.563	ug/l	97
41) Bromodichloromethane	9.871	83	112251	15.970	ug/l	96
42) Vinyl Acetate	6.588	43	1043547	77.176	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	121736	15.347	ug/l	99
44) Isopropyl Acetate	8.671	43	208624	15.516	ug/l	99
45) 1,4-Dioxane	9.682	88	28605	333.713	ug/l	93
46) Methyl methacrylate	9.665	41	91902	14.480	ug/l	90
47) n-amyl Acetate	12.582	43	104026m	14.005	ug/l	
48) t-1,3-Dichloropropene	10.818	75	118184	15.455	ug/l	94
49) cis-1,3-Dichloropropene	10.294	75	119757	15.562	ug/l	94
50) 1,1,2-Trichloroethane	10.994	97	71049	16.625	ug/l	96
51) Ethyl methacrylate	10.859	69	114871	15.262	ug/l	90
52) 1,3-Dichloropropane	11.141	76	126330	16.407	ug/l	99
53) Dibromochloromethane	11.341	129	80934	16.398	ug/l	97
54) 1,2-Dibromoethane	11.447	107	71856	15.838	ug/l	97
55) 2-Chloroethyl vinyl ether	10.141	63	315391	79.598	ug/l	99
56) Bromoform	12.559	173	49680	15.218	ug/l #	98
58) 4-Methyl-2-Pentanone	10.423	43	626128	79.765	ug/l	98
59) 2-Hexanone	11.182	43	410004	76.874	ug/l	98
61) Tetrachloroethene	11.082	164	53978	18.157	ug/l	94
62) Toluene	10.612	91	313316	16.636	ug/l	99
64) Chlorobenzene	11.870	112	189671	16.390	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.941	131	63335	15.566	ug/l	97
66) Ethyl Benzene	11.941	91	341563	16.272	ug/l	100
67) m/p-Xylenes	12.053	106	254495	33.029	ug/l	93
68) o-Xylene	12.376	106	123451	16.286	ug/l	98
69) Styrene	12.394	104	207684	16.046	ug/l	98
70) Isopropylbenzene	12.676	105	318953	16.562	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.917	83	107388	16.274	ug/l	97
72) 1,2,3-Trichloropropane	12.976	75	136278	22.169	ug/l	56
73) Bromobenzene	12.959	156	74825	16.760	ug/l	91
74) n-propylbenzene	13.012	91	388929	16.171	ug/l	98
75) 2-Chlorotoluene	13.106	91	237825	16.075	ug/l	98
76) 1,3,5-Trimethylbenzene	13.153	105	261835	15.879	ug/l	95
77) t-1,4-Dichloro-2-butene	12.723	75	26146	11.236	ug/l	86
78) 4-Chlorotoluene	13.200	91	237691	15.854	ug/l	98
79) tert-butylbenzene	13.417	119	223192	16.054	ug/l	99
80) 1,2,4-Trimethylbenzene	13.464	105	263816	16.011	ug/l	100
81) sec-Butylbenzene	13.594	105	324533	16.035	ug/l	99
82) p-Isopropyltoluene	13.706	119	269511	16.038	ug/l	99
83) 1,3-Dichlorobenzene	13.717	146	142959	16.816	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	144207	16.731	ug/l	98
85) n-Butylbenzene	14.035	91	261687	15.916	ug/l	99
86) Hexachloroethane	14.311	117	50403	15.359	ug/l	100
87) 1,2-Dichlorobenzene	14.082	146	136887	16.868	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.700	75	26484	15.843	ug/l	93
89) 1,2,4-Trichlorobenzene	15.811	180	79949	16.485	ug/l	98
90) Hexachlorobutadiene	15.476	225	28836	15.291	ug/l	95
91) Naphthalene	15.611	128	298615	16.148	ug/l	99
92) 1,2,3-Trichlorobenzene	15.811	180	79949	16.485	ug/l	98

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

