

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
 Data File : VN086667.D
 Acq On : 16 May 2025 15:09
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/19/2025
 Supervised By : Mahesh Dadoda 05/19/2025

Quant Time: May 16 23:04:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29278	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	176465	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163762	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83245	29.490	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.300%		
60) 4-Bromofluorobenzene	12.847	95	92249	28.661	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.533%		
63) Toluene-d8	10.565	98	265722	29.494	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.300%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	42833	21.191	ug/l	92
3) Chloromethane	2.359	50	57227	19.931	ug/l	96
4) Vinyl Chloride	2.512	62	55189	20.069	ug/l	98
5) Bromomethane	2.965	94	31254	21.769	ug/l	92
6) Chloroethane	3.124	64	36903	20.129	ug/l	99
7) Trichlorofluoromethane	3.500	101	70650	21.765	ug/l	99
8) Diethyl Ether	3.965	74	28808	21.025	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	44150	22.124	ug/l	99
10) 1,1-Dichloroethene	4.342	96	42968	21.037	ug/l	98
11) Methyl Iodide	4.589	142	46788	19.578	ug/l	97
12) Methyl Acetate	5.018	43	66441	22.950	ug/l	94
13) Acrolein	4.177	56	15149	110.296	ug/l	99
14) Acrylonitrile	5.718	53	120978	112.278	ug/l	98
15) Acetone	4.424	58	35500	119.567	ug/l	77
16) Carbon Disulfide	4.712	76	105504	19.603	ug/l	99
17) Allyl chloride	5.024	41	66270	20.291	ug/l	98
18) Methylene Chloride	5.271	84	51012	21.931	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	44737	20.549	ug/l	98
20) Diisopropyl ether	6.665	45	156935	20.209	ug/l	98
21) 1,1-Dichloroethane	6.565	63	89039	20.947	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	56668	20.817	ug/l	97
23) tert-Butyl Alcohol	5.512	59	45321	108.579	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	155078	20.550	ug/l	97
25) Chloroform	7.965	83	91128	21.183	ug/l	97
26) Cyclohexane	8.253	56	70714	18.841	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	61522	19.776	ug/l	97
30) 2-Butanone	7.483	43	159989	105.956	ug/l	98
31) 2,2-Dichloropropane	7.488	77	79460	19.870	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	78050	20.995	ug/l	98
33) Carbon Tetrachloride	8.359	117	63498	20.749	ug/l	98
34) Benzene	8.600	78	206586	20.878	ug/l	96
35) Methacrylonitrile	7.777	41	33759	19.600	ug/l	95
36) 1,2-Dichloroethane	8.665	62	66054	20.562	ug/l	98
37) Trichloroethene	9.347	130	50871	20.537	ug/l	95
38) Methylcyclohexane	9.600	83	67952	18.913	ug/l	98
39) 1,2-Dichloropropane	9.618	63	50839	20.798	ug/l	100
40) Dibromomethane	9.706	93	33594	20.550	ug/l	94
41) Bromodichloromethane	9.882	83	71536	20.679	ug/l	95
42) Vinyl Acetate	6.600	43	540993	103.428	ug/l	99

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
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Reviewed By : John Carlone 05/19/2025
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	64098	21.451	ug/l	96
44) Isopropyl Acetate	8.682	43	114996	20.277	ug/l	98
45) 1,4-Dioxane	9.694	88	20723	468.328	ug/l #	95
46) Methyl methacrylate	9.677	41	50658	19.365	ug/l	95
47) n-amyl Acetate	12.488	43	93364	19.315	ug/l	97
48) t-1,3-Dichloropropene	10.835	75	75862	19.615	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	81670	20.025	ug/l	94
50) 1,1,2-Trichloroethane	11.012	97	48587	21.279	ug/l	98
51) Ethyl methacrylate	10.871	69	79878	20.087	ug/l	94
52) 1,3-Dichloropropane	11.159	76	85433	21.170	ug/l	98
53) Dibromochloromethane	11.353	129	53147	20.729	ug/l	99
54) 1,2-Dibromoethane	11.465	107	49573	21.353	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	171184	91.559	ug/l	99
56) Bromoform	12.576	173	34998	21.035	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	328725	103.731	ug/l	99
59) 2-Hexanone	11.194	43	240733	103.083	ug/l	97
61) Tetrachloroethene	11.100	164	51397	20.578	ug/l	95
62) Toluene	10.629	91	229064	20.897	ug/l	100
64) Chlorobenzene	11.888	112	142825	20.911	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	48841	21.386	ug/l	98
66) Ethyl Benzene	11.959	91	248804	20.165	ug/l	99
67) m/p-Xylenes	12.070	106	191052	40.810	ug/l	99
68) o-Xylene	12.394	106	92502	20.180	ug/l	98
69) Styrene	12.406	104	153474	19.754	ug/l	99
70) Isopropylbenzene	12.694	105	225383	19.697	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	68295	22.668	ug/l	97
72) 1,2,3-Trichloropropane	12.988	75	56344m	21.450	ug/l	
73) Bromobenzene	12.976	156	54371	20.669	ug/l	98
74) n-propylbenzene	13.035	91	262775	19.326	ug/l	98
75) 2-Chlorotoluene	13.123	91	167624	19.748	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	183303	19.524	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	25438	19.082	ug/l	95
78) 4-Chlorotoluene	13.217	91	165712	19.526	ug/l	100
79) tert-butylbenzene	13.435	119	156339	19.443	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	183125	19.099	ug/l	97
81) sec-Butylbenzene	13.612	105	221288	19.280	ug/l	99
82) p-Isopropyltoluene	13.723	119	179398	18.679	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	95735	19.252	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	95778	19.494	ug/l	98
85) n-Butylbenzene	14.053	91	151476	17.675	ug/l	99
86) Hexachloroethane	14.329	117	28878	18.388	ug/l	97
87) 1,2-Dichlorobenzene	14.100	146	93845	19.834	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11620	18.975	ug/l	94
89) 1,2,4-Trichlorobenzene	15.835	180	39391	18.266	ug/l	96
90) Hexachlorobutadiene	15.500	225	17204	19.805	ug/l	99
91) Naphthalene	15.635	128	138801	17.978	ug/l	98
92) 1,2,3-Trichlorobenzene	15.835	180	39391	18.266	ug/l	96

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

