

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072825\
 Data File : VN087435.D
 Acq On : 28 Jul 2025 16:34
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/29/2025
 Supervised By : Mahesh Dadoda 07/29/2025

Quant Time: Jul 29 01:11:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:35:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.800	128	60635	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.088	114	332596	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	302118	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	140690	30.343	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.133%			
60) 4-Bromofluorobenzene	12.829	95	146039	29.436	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.133%			
63) Toluene-d8	10.547	98	414458	29.872	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	72163	20.398	ug/l	93
3) Chloromethane	2.383	50	77245	20.569	ug/l	97
4) Vinyl Chloride	2.542	62	74730	19.668	ug/l	91
5) Bromomethane	2.989	94	21170	11.425	ug/l	93
6) Chloroethane	3.142	64	44040	20.550	ug/l	98
7) Trichlorofluoromethane	3.512	101	99488	20.812	ug/l	99
8) Diethyl Ether	3.965	74	42871	21.488	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.365	101	52915	20.292	ug/l	39
10) 1,1-Dichloroethene	4.330	96	56467	21.768	ug/l	91
11) Methyl Iodide	4.571	142	31816	13.546	ug/l	94
12) Methyl Acetate	5.018	43	122526	21.663	ug/l	97
13) Acrolein	4.177	56	49828	108.024	ug/l	100
14) Acrylonitrile	5.706	53	259048	105.625	ug/l	99
15) Acetone	4.424	58	66150	116.374	ug/l	84
16) Carbon Disulfide	4.706	76	175547	19.043	ug/l	98
17) Allyl chloride	5.012	41	113247	18.737	ug/l	98
18) Methylene Chloride	5.265	84	77780	19.917	ug/l	96
19) trans-1,2-Dichloroethene	5.783	96	69839	18.951	ug/l	98
20) Diisopropyl ether	6.665	45	286547	20.838	ug/l	99
21) 1,1-Dichloroethane	6.559	63	139066	19.953	ug/l	98
22) cis-1,2-Dichloroethene	7.477	96	87772	19.596	ug/l	98
23) tert-Butyl Alcohol	5.530	59	104848	110.296	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	261439	20.314	ug/l	98
25) Chloroform	7.947	83	141695	20.137	ug/l	98
26) Cyclohexane	8.241	56	123970	19.259	ug/l #	99
29) 1,1-Dichloropropene	8.353	75	96663	20.473	ug/l	97
30) 2-Butanone	7.471	43	389110	113.748	ug/l	98
31) 2,2-Dichloropropane	7.477	77	118579	20.155	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	116623	20.549	ug/l	98
33) Carbon Tetrachloride	8.347	117	92438	19.753	ug/l	95
34) Benzene	8.588	78	305967	19.813	ug/l	98
35) Methacrylonitrile	7.765	41	82933	21.164	ug/l	93
36) 1,2-Dichloroethane	8.653	62	109920	21.388	ug/l #	93
37) Trichloroethene	9.330	130	69281	19.654	ug/l	99
38) Methylcyclohexane	9.583	83	117022	19.217	ug/l	99
39) 1,2-Dichloropropane	9.606	63	79826	20.532	ug/l	95
40) Dibromomethane	9.694	93	56603	20.523	ug/l	97
41) Bromodichloromethane	9.871	83	114153	20.566	ug/l	92
42) Vinyl Acetate	6.589	43	1314693	114.201	ug/l	96

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	150237	21.424	ug/l	# 67
44) Isopropyl Acetate	8.677	43	244882	21.858	ug/l	96
45) 1,4-Dioxane	9.683	88	29840	419.795	ug/l	94
46) Methyl methacrylate	9.665	41	108628	20.824	ug/l	92
47) n-amyl Acetate	12.529	43	125601m	27.194	ug/l	
48) t-1,3-Dichloropropene	10.818	75	125872	20.143	ug/l	99
49) cis-1,3-Dichloropropene	10.294	75	133416	20.329	ug/l	99
50) 1,1,2-Trichloroethane	10.994	97	75949	20.688	ug/l	97
51) Ethyl methacrylate	10.859	69	132308	19.901	ug/l	91
52) 1,3-Dichloropropane	11.141	76	131001	20.647	ug/l	98
53) Dibromochloromethane	11.341	129	85994	20.422	ug/l	96
54) 1,2-Dibromoethane	11.447	107	78570	20.340	ug/l	100
55) 2-Chloroethyl vinyl ether	10.141	63	367549	134.460	ug/l	99
56) Bromoform	12.559	173	54106	18.310	ug/l	98
58) 4-Methyl-2-Pentanone	10.430	43	759073	111.545	ug/l	99
59) 2-Hexanone	11.182	43	493203	104.581	ug/l	100
61) Tetrachloroethene	11.088	164	53788	18.752	ug/l	98
62) Toluene	10.612	91	336994	19.765	ug/l	100
64) Chlorobenzene	11.871	112	205875	19.634	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.941	131	68653	19.309	ug/l	96
66) Ethyl Benzene	11.947	91	369620	19.842	ug/l	99
67) m/p-Xylenes	12.053	106	278518	39.903	ug/l	98
68) o-Xylene	12.376	106	134092	19.631	ug/l	97
69) Styrene	12.394	104	224805	19.241	ug/l	98
70) Isopropylbenzene	12.676	105	347281	19.798	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.918	83	122643	20.504	ug/l	99
72) 1,2,3-Trichloropropane	12.976	75	100810m	18.528	ug/l	
73) Bromobenzene	12.965	156	78438	19.245	ug/l	96
74) n-propylbenzene	13.018	91	427870	19.756	ug/l	99
75) 2-Chlorotoluene	13.106	91	248409	19.327	ug/l	100
76) 1,3,5-Trimethylbenzene	13.153	105	287479	19.782	ug/l	99
77) t-1,4-Dichloro-2-butene	12.724	75	29797	12.906	ug/l	90
78) 4-Chlorotoluene	13.200	91	256473	19.432	ug/l	99
79) tert-butylbenzene	13.418	119	245925	19.589	ug/l	98
80) 1,2,4-Trimethylbenzene	13.459	105	289712	20.091	ug/l	100
81) sec-Butylbenzene	13.594	105	367695	19.718	ug/l	99
82) p-Isopropyltoluene	13.706	119	303000	20.019	ug/l	99
83) 1,3-Dichlorobenzene	13.718	146	152185	19.731	ug/l	99
84) 1,4-Dichlorobenzene	13.794	146	154414	19.145	ug/l	99
85) n-Butylbenzene	14.035	91	302344	19.834	ug/l	99
86) Hexachloroethane	14.312	117	53562	17.424	ug/l	99
87) 1,2-Dichlorobenzene	14.088	146	145662	19.427	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.700	75	27512	19.928	ug/l	95
89) 1,2,4-Trichlorobenzene	15.817	180	85496	18.695	ug/l	98
90) Hexachlorobutadiene	15.476	225	33584	19.288	ug/l	97
91) Naphthalene	15.617	128	345995	20.018	ug/l	98
92) 1,2,3-Trichlorobenzene	15.817	180	85496	18.695	ug/l	98

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

