

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040425\
 Data File : VN086224.D
 Acq On : 04 Apr 2025 11:14
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/07/2025
 Supervised By : Mahesh Dadoda 04/07/2025

Quant Time: Apr 04 23:42:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 04 23:41:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	22740	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	123486	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	125525	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	68376	29.960	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.867%		
60) 4-Bromofluorobenzene	12.847	95	78143	33.412	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	111.367%		
63) Toluene-d8	10.565	98	202352	28.897	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.333%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	326920	212.151	ug/l	95
3) Chloromethane	2.359	50	304627	181.990	ug/l	96
4) Vinyl Chloride	2.512	62	305831	196.182	ug/l	100
5) Bromomethane	2.954	94	140626	173.939	ug/l	95
6) Chloroethane	3.118	64	180788	194.332	ug/l	93
7) Trichlorofluoromethane	3.501	101	441663	211.652	ug/l	99
8) Diethyl Ether	3.959	74	152665	219.504	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	241488	208.063	ug/l	99
10) 1,1-Dichloroethene	4.342	96	241252	212.957	ug/l	97
11) Methyl Iodide	4.589	142	298527	205.441	ug/l	98
12) Methyl Acetate	5.012	43	259205	173.160	ug/l	95
13) Acrolein	4.177	56	167818	1026.359	ug/l	99
14) Acrylonitrile	5.718	53	598052	1024.893	ug/l	99
15) Acetone	4.424	58	152668	838.654	ug/l	90
16) Carbon Disulfide	4.712	76	671956	185.160	ug/l	97
17) Allyl chloride	5.024	41	338017	214.507	ug/l	97
18) Methylene Chloride	5.277	84	264762	194.919	ug/l	93
19) trans-1,2-Dichloroethene	5.783	96	256445	209.611	ug/l	92
20) Diisopropyl ether	6.665	45	735639	222.383	ug/l	98
21) 1,1-Dichloroethane	6.565	63	466136	206.743	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	306086	210.943	ug/l	97
23) tert-Butyl Alcohol	5.506	59	200808	942.407	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	833355	225.199	ug/l #	84
25) Chloroform	7.965	83	496396	209.805	ug/l	98
26) Cyclohexane	8.259	56	408988	225.355	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	361897	233.543	ug/l	97
30) 2-Butanone	7.477	43	723908	1062.669	ug/l	98
31) 2,2-Dichloropropane	7.489	77	435532	228.112	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	461979	220.462	ug/l	100
33) Carbon Tetrachloride	8.359	117	410048	229.436	ug/l	95
34) Benzene	8.606	78	1113720	216.458	ug/l	99
35) Methacrylonitrile	7.777	41	161329	212.110	ug/l	95
36) 1,2-Dichloroethane	8.665	62	369559	216.262	ug/l	98
37) Trichloroethene	9.347	130	290902	236.076	ug/l	96
38) Methylcyclohexane	9.600	83	415518	255.561	ug/l	97
39) 1,2-Dichloropropane	9.618	63	262330	220.033	ug/l	99
40) Dibromomethane	9.706	93	187295	212.892	ug/l	97
41) Bromodichloromethane	9.888	83	390721	221.115	ug/l	99
42) Vinyl Acetate	6.600	43	2627585	1082.383	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	289603	206.765	ug/l	# 84
44) Isopropyl Acetate	8.683	43	510228	201.815	ug/l	100
45) 1,4-Dioxane	9.694	88	96348	4157.202	ug/l	94
46) Methyl methacrylate	9.677	41	241515	233.232	ug/l	95
47) n-amyl Acetate	12.488	43	486900	281.870	ug/l	96
48) t-1,3-Dichloropropene	10.835	75	438915	241.041	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	449541	228.494	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	260305	226.313	ug/l	97
51) Ethyl methacrylate	10.871	69	430580	263.692	ug/l	99
52) 1,3-Dichloropropane	11.159	76	459163	229.135	ug/l	100
53) Dibromochloromethane	11.359	129	318848	238.090	ug/l	100
54) 1,2-Dibromoethane	11.465	107	267617	226.770	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	287917	384.534	ug/l	100
56) Bromoform	12.576	173	224760	248.082	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	1601075	1080.774	ug/l	100
59) 2-Hexanone	11.194	43	1202827	1131.174	ug/l	98
61) Tetrachloroethene	11.100	164	332696	227.098	ug/l	94
62) Toluene	10.630	91	1230762	214.783	ug/l	99
64) Chlorobenzene	11.888	112	778226	217.667	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	284404	216.167	ug/l	99
66) Ethyl Benzene	11.959	91	1469330	247.106	ug/l	100
67) m/p-Xylenes	12.071	106	1148472	489.259	ug/l	98
68) o-Xylene	12.394	106	553903	244.455	ug/l	98
69) Styrene	12.406	104	941455	260.558	ug/l	99
70) Isopropylbenzene	12.694	105	1384220	244.786	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	316345	192.866	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	325949m	205.822	ug/l	
73) Bromobenzene	12.976	156	336798	231.142	ug/l	97
74) n-propylbenzene	13.035	91	1676877	259.034	ug/l	99
75) 2-Chlorotoluene	13.123	91	1041882	241.676	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	1220609	256.022	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	157283	249.004	ug/l	99
78) 4-Chlorotoluene	13.218	91	1068638	249.957	ug/l	100
79) tert-butylbenzene	13.435	119	991243	252.310	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	1257733	262.921	ug/l	99
81) sec-Butylbenzene	13.612	105	1434125	266.527	ug/l	100
82) p-Isopropyltoluene	13.723	119	1254458	284.952	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	668817	252.702	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	654132	253.224	ug/l	99
85) n-Butylbenzene	14.053	91	1090747	306.856	ug/l	99
86) Hexachloroethane	14.329	117	202477	259.547	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	638833	246.436	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	86239	247.114	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	352047	279.149	ug/l	98
90) Hexachlorobutadiene	15.500	225	171707	248.374	ug/l	100
91) Naphthalene	15.635	128	1199060	293.362	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	352047	279.149	ug/l	98

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

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