

N	P	SNR = 1															SNR = 5															SNR = 25																																																																																																																																																																																																																																																																																																																																																																																													
		SIR = 1					SIR = 5					SIR = 25					SIR = 1					SIR = 5					SIR = 25																																																																																																																																																																																																																																																																																																																																																																																																		
100 samples		10	[0.810, 0.842]	[0.819, 0.848]	[0.839, 0.872]	[0.849, 0.876]	[0.879, 0.903]	[0.889, 0.915]	[0.864, 0.893]	[0.889, 0.915]	[0.910, 0.932]	[0.616, 0.657]	[0.619, 0.657]	[0.645, 0.691]	[0.696, 0.732]	[0.681, 0.717]	[0.704, 0.745]	[0.715, 0.755]	[0.706, 0.750]	[0.735, 0.775]	[0.609, 0.648]	[0.614, 0.655]	[0.622, 0.668]	[0.678, 0.714]	[0.654, 0.689]	[0.678, 0.723]	[0.690, 0.734]	[0.668, 0.712]	[0.686, 0.730]	[0.813, 0.841]	[0.850, 0.876]	[0.843, 0.874]	[0.856, 0.883]	[0.897, 0.919]	[0.901, 0.925]	[0.857, 0.889]	[0.895, 0.920]	[0.909, 0.932]	[0.636, 0.673]	[0.631, 0.670]	[0.671, 0.715]	[0.696, 0.733]	[0.690, 0.728]	[0.723, 0.762]	[0.709, 0.751]	[0.717, 0.758]	[0.753, 0.793]	[0.602, 0.642]	[0.587, 0.628]	[0.615, 0.664]	[0.624, 0.663]	[0.622, 0.661]	[0.651, 0.695]	[0.658, 0.705]	[0.661, 0.707]	[0.633, 0.676]	[0.774, 0.806]	[0.805, 0.836]	[0.820, 0.854]	[0.829, 0.857]	[0.871, 0.895]	[0.886, 0.913]	[0.844, 0.875]	[0.884, 0.910]	[0.888, 0.913]	[0.590, 0.628]	[0.616, 0.657]	[0.610, 0.656]	[0.671, 0.710]	[0.671, 0.709]	[0.696, 0.740]	[0.673, 0.716]	[0.700, 0.742]	[0.723, 0.763]	[0.528, 0.568]	[0.568, 0.607]	[0.555, 0.604]	[0.596, 0.635]	[0.602, 0.643]	[0.599, 0.644]	[0.587, 0.635]	[0.586, 0.634]	[0.591, 0.641]	[0.716, 0.751]	[0.752, 0.786]	[0.758, 0.795]	[0.778, 0.808]	[0.840, 0.867]	[0.842, 0.875]	[0.792, 0.828]	[0.864, 0.892]	[0.863, 0.893]	[0.553, 0.597]	[0.565, 0.604]	[0.550, 0.598]	[0.616, 0.655]	[0.653, 0.692]	[0.631, 0.678]	[0.649, 0.697]	[0.681, 0.724]	[0.688, 0.732]	[0.514, 0.554]	[0.514, 0.553]	[0.501, 0.551]	[0.531, 0.573]	[0.558, 0.598]	[0.522, 0.571]	[0.543, 0.589]	[0.570, 0.615]	[0.534, 0.588]	[0.624, 0.662]	[0.651, 0.688]	[0.672, 0.717]	[0.695, 0.734]	[0.770, 0.801]	[0.788, 0.824]	[0.725, 0.768]	[0.801, 0.838]	[0.848, 0.879]	[0.522, 0.561]	[0.526, 0.566]	[0.536, 0.585]	[0.560, 0.600]	[0.587, 0.626]	[0.583, 0.632]	[0.601, 0.647]	[0.622, 0.666]	[0.668, 0.712]	[0.485, 0.527]	[0.486, 0.527]	[0.491, 0.540]	[0.501, 0.542]	[0.492, 0.535]	[0.526, 0.575]	[0.510, 0.561]	[0.480, 0.526]	[0.494, 0.545]	2	[0.924, 0.942]	[0.935, 0.950]	[0.931, 0.949]	[0.948, 0.962]	[0.970, 0.979]	[0.973, 0.984]	[0.956, 0.971]	[0.969, 0.979]	[0.976, 0.986]	[0.758, 0.790]	[0.775, 0.806]	[0.762, 0.801]	[0.846, 0.873]	[0.852, 0.878]	[0.861, 0.889]	[0.873, 0.900]	[0.858, 0.887]	[0.888, 0.915]	[0.735, 0.769]	[0.748, 0.784]	[0.738, 0.779]	[0.812, 0.842]	[0.815, 0.842]	[0.833, 0.864]	[0.835, 0.866]	[0.823, 0.856]	[0.839, 0.870]	[0.928, 0.945]	[0.959, 0.970]	[0.957, 0.972]	[0.966, 0.976]	[0.977, 0.985]	[0.979, 0.988]	[0.965, 0.977]	[0.978, 0.987]	[0.983, 0.991]	[0.789, 0.819]	[0.807, 0.836]	[0.822, 0.855]	[0.869, 0.893]	[0.869, 0.894]	[0.882, 0.911]	[0.883, 0.909]	[0.899, 0.922]	[0.909, 0.931]	[0.729, 0.764]	[0.732, 0.767]	[0.749, 0.787]	[0.789, 0.820]	[0.800, 0.830]	[0.806, 0.842]	[0.821, 0.855]	[0.826, 0.859]	[0.822, 0.856]	[0.921, 0.938]	[0.942, 0.956]	[0.955, 0.970]	[0.948, 0.962]	[0.975, 0.984]	[0.977, 0.986]	[0.957, 0.973]	[0.979, 0.987]	[0.982, 0.990]	[0.755, 0.786]	[0.776, 0.808]	[0.788, 0.824]	[0.843, 0.869]	[0.879, 0.901]	[0.886, 0.911]	[0.876, 0.906]	[0.896, 0.922]	[0.903, 0.926]	[0.665, 0.698]	[0.686, 0.725]	[0.680, 0.723]	[0.759, 0.795]	[0.763, 0.795]	[0.771, 0.808]	[0.782, 0.820]	[0.796, 0.834]	[0.778, 0.817]	6	[0.882, 0.904]	[0.925, 0.943]	[0.910, 0.932]	[0.928, 0.945]	[0.967, 0.977]	[0.968, 0.979]	[0.942, 0.960]	[0.973, 0.983]	[0.977, 0.986]	[0.674, 0.714]	[0.714, 0.747]	[0.731, 0.773]	[0.808, 0.838]	[0.839, 0.866]	[0.836, 0.867]	[0.854, 0.883]	[0.870, 0.897]	[0.882, 0.908]	[0.604, 0.644]	[0.615, 0.652]	[0.653, 0.697]	[0.704, 0.742]	[0.711, 0.745]	[0.693, 0.736]	[0.744, 0.783]	[0.736, 0.774]	[0.740, 0.778]	[0.790, 0.821]	[0.846, 0.872]	[0.854, 0.883]	[0.872, 0.896]	[0.944, 0.958]	[0.952, 0.967]	[0.904, 0.927]	[0.954, 0.969]	[0.972, 0.983]	[0.604, 0.642]	[0.628, 0.668]	[0.673, 0.719]	[0.731, 0.766]	[0.776, 0.808]	[0.784, 0.821]	[0.831, 0.862]	[0.851, 0.880]	[0.876, 0.903]	[0.569, 0.608]	[0.559, 0.601]	[0.588, 0.637]	[0.620, 0.660]	[0.641, 0.679]	[0.634, 0.678]	[0.684, 0.729]	[0.695, 0.739]	[0.697, 0.741]	4	[0.981, 0.988]	[0.987, 0.993]	[0.987, 0.993]	[0.991, 0.996]	[0.996, 0.999]	[0.995, 0.998]	[0.993, 0.996]	[0.998, 0.999]	[0.997, 0.999]	[0.913, 0.932]	[0.920, 0.939]	[0.916, 0.939]	[0.957, 0.969]	[0.966, 0.976]	[0.964, 0.977]	[0.968, 0.980]	[0.970, 0.981]	[0.977, 0.986]	[0.886, 0.909]	[0.894, 0.916]	[0.884, 0.911]	[0.934, 0.950]	[0.946, 0.960]	[0.944, 0.962]	[0.950, 0.965]	[0.947, 0.963]	[0.954, 0.968]	[0.990, 0.995]	[0.995, 0.998]	[0.995, 0.998]	[0.996, 0.998]	[0.999, 0.999]	[0.999, 1.000]	[0.995, 0.998]	[0.999, 1.000]	[0.999, 1.000]	[0.940, 0.955]	[0.954, 0.966]	[0.949, 0.965]	[0.972, 0.982]	[0.980, 0.987]	[0.983, 0.990]	[0.984, 0.991]	[0.984, 0.991]	[0.988, 0.994]	[0.889, 0.911]	[0.899, 0.920]	[0.898, 0.922]	[0.934, 0.950]	[0.948, 0.962]	[0.948, 0.964]	[0.948, 0.963]	[0.957, 0.970]	[0.952, 0.967]	[0.988, 0.993]	[0.994, 0.997]	[0.995, 0.998]	[0.995, 0.998]	[0.998, 0.999]	[0.999, 1.000]	[0.995, 0.998]	[0.999, 1.000]	[0.999, 1.000]	[0.935, 0.950]	[0.949, 0.962]	[0.945, 0.963]	[0.977, 0.985]	[0.979, 0.987]	[0.981, 0.989]	[0.980, 0.989]	[0.991, 0.995]	[0.989, 0.994]	[0.855, 0.880]	[0.872, 0.896]	[0.879, 0.906]	[0.928, 0.945]	[0.924, 0.940]	[0.935, 0.954]	[0.940, 0.957]	[0.948, 0.963]	[0.942, 0.959]	2	[0.982, 0.988]	[0.993, 0.996]	[0.990, 0.996]	[0.993, 0.996]	[0.998, 0.999]	[0.998, 0.999]	[0.993, 0.997]	[0.997, 1.000]	[0.999, 1.000]	[0.901, 0.921]	[0.921, 0.939]	[0.931, 0.949]	[0.965, 0.977]	[0.976, 0.984]	[0.978, 0.987]	[0.978, 0.988]	[0.985, 0.992]	[0.987, 0.993]	[0.787, 0.818]	[0.809, 0.836]	[0.826, 0.859]	[0.890, 0.911]	[0.904, 0.922]	[0.898, 0.922]	[0.922, 0.942]	[0.924, 0.944]	[0.937, 0.956]	400 samples	10	[0.937, 0.952]	[0.964, 0.976]	[0.969, 0.981]	[0.974, 0.982]	[0.996, 0.998]	[0.995, 0.998]	[0.995, 0.998]	[0.981, 0.990]	[0.997, 1.000]	[0.789, 0.819]	[0.822, 0.849]	[0.842, 0.873]	[0.942, 0.956]	[0.950, 0.963]	[0.962, 0.975]	[0.970, 0.982]	[0.979, 0.988]	[0.985, 0.992]	[0.707, 0.742]	[0.701, 0.737]	[0.720, 0.763]	[0.843, 0.871]	[0.841, 0.866]	[0.851, 0.881]	[0.903, 0.927]	[0.902, 0.925]	[0.902, 0.925]
200 samples		10	[0.981, 0.988]	[0.987, 0.993]	[0.987, 0.993]	[0.991, 0.996]	[0.996, 0.999]	[0.995, 0.998]	[0.993, 0.996]	[0.998, 0.999]	[0.997, 0.999]	[0.913, 0.932]	[0.920, 0.939]	[0.916, 0.939]	[0.957, 0.969]	[0.966, 0.976]	[0.964, 0.977]	[0.968, 0.980]	[0.970, 0.981]	[0.977, 0.986]	[0.886, 0.909]	[0.894, 0.916]	[0.884, 0.911]	[0.934, 0.950]	[0.946, 0.960]	[0.944, 0.962]	[0.950, 0.965]	[0.947, 0.963]	[0.954, 0.968]	[0.990, 0.995]	[0.995, 0.998]	[0.995, 0.998]	[0.996, 0.998]	[0.999, 0.999]	[0.999, 1.000]	[0.995, 0.998]	[0.999, 1.000]	[0.999, 1.000]	[0.940, 0.955]	[0.954, 0.966]	[0.949, 0.965]	[0.972, 0.982]	[0.980, 0.987]	[0.983, 0.990]	[0.984, 0.991]	[0.984, 0.991]	[0.988, 0.994]	[0.889, 0.911]	[0.899, 0.920]	[0.898, 0.922]	[0.934, 0.950]	[0.948, 0.962]	[0.948, 0.964]	[0.948, 0.963]	[0.957, 0.970]	[0.952, 0.967]	[0.988, 0.993]	[0.994, 0.997]	[0.995, 0.998]	[0.995, 0.998]	[0.998, 0.999]	[0.999, 1.000]	[0.995, 0.998]	[0.999, 1.000]	[0.999, 1.000]	[0.935, 0.950]	[0.949, 0.962]	[0.945, 0.963]	[0.977, 0.985]	[0.979, 0.987]	[0.981, 0.989]	[0.980, 0.989]	[0.991, 0.995]	[0.989, 0.994]	[0.855, 0.880]	[0.872, 0.896]	[0.879, 0.906]	[0.928, 0.945]	[0.924, 0.940]	[0.935, 0.954]	[0.940, 0.957]	[0.948, 0.963]	[0.942, 0.959]	6	[0.921, 0.938]	[0.942, 0.956]	[0.955, 0.970]	[0.948, 0.962]	[0.975, 0.984]	[0.977, 0.986]	[0.957, 0.973]	[0.979, 0.987]	[0.982, 0.990]	[0.755, 0.786]	[0.776, 0.808]	[0.788, 0.824]	[0.843, 0.869]	[0.879, 0.901]	[0.886, 0.911]	[0.876, 0.906]	[0.896, 0.922]	[0.903, 0.926]	[0.665, 0.698]	[0.686, 0.725]	[0.680, 0.723]	[0.759, 0.795]	[0.763, 0.795]	[0.771, 0.808]	[0.782, 0.820]	[0.796, 0.834]	[0.778, 0.817]	4	[0.921, 0.938]	[0.942, 0.956]	[0.955, 0.970]	[0.948, 0.962]	[0.975, 0.984]	[0.977, 0.986]	[0.957, 0.973]	[0.979, 0.987]	[0.982, 0.990]	[0.789, 0.819]	[0.807, 0.836]	[0.822, 0.855]	[0.869, 0.893]	[0.869, 0.894]	[0.882, 0.911]	[0.883, 0.909]	[0.899, 0.922]	[0.909, 0.931]	[0.729, 0.764]	[0.732, 0.767]	[0.749, 0.787]	[0.789, 0.820]	[0.800, 0.830]	[0.806, 0.842]	[0.821, 0.855]	[0.826, 0.859]	[0.822, 0.856]	2	[0.924, 0.942]	[0.935, 0.950]	[0.931, 0.949]	[0.948, 0.962]	[0.970, 0.979]	[0.973, 0.984]	[0.956, 0.971]	[0.969, 0.979]	[0.976, 0.986]	[0.758, 0.790]	[0.775, 0.806]	[0.762, 0.801]	[0.846, 0.873]	[0.852, 0.878]	[0.861, 0.889]	[0.873, 0.900]	[0.858, 0.887]	[0.888, 0.915]	[0.735, 0.769]	[0.748, 0.784]	[0.738, 0.779]	[0.812, 0.842]	[0.815, 0.842]	[0.833, 0.864]	[0.835, 0.866]	[0.823, 0.856]	[0.839, 0.870]	10	[0.924, 0.942]	[0.935, 0.950]	[0.931, 0.949]	[0.948, 0.962]	[0.970, 0.979]	[0.973, 0.984]	[0.956, 0.971]	[0.969, 0.979]	[0.976, 0.986]	[0.485, 0.527]	[0.486, 0.527]	[0.491, 0.540]	[0.501, 0.542]	[0.492, 0.535]	[0.526, 0.575]	[0.510, 0.561]	[0.480, 0.526]	[0.494, 0.545]																																																																																																																																																																																																																																			

Table 1: 95% confidence interval of the area under the ROC curve for differing sample sizes N , AR model order P , SIR and SNR. The standard text is for GC with known weights; the **bold** is for CGC and the *italics* is for MGC. In each case, CGC's interval is consistently higher than MGC's. As SNR increases, N decreases or P increases, this difference in performance increases.

N	P	SNR = 1										SNR = 5										SNR = 25									
		SIR = 1			SIR = 5			SIR = 25			SIR = 1			SIR = 5			SIR = 25			SIR = 1			SIR = 5			SIR = 25					
100 samples	2	[0.005, 0.203]	[0.005, 0.210]	[0.005, 0.217]	[0.008, 0.219]	[0.007, 0.212]	[0.007, 0.209]	[0.017, 0.216]	[0.018, 0.219]	[0.017, 0.200]	[0.003, 0.214]	[0.002, 0.203]	[0.003, 0.216]	[0.002, 0.183]	[0.002, 0.194]	[0.003, 0.185]	[0.002, 0.168]	[0.002, 0.172]	[0.002, 0.170]												
		[0.006, 0.254]	[0.006, 0.265]	[0.008, 0.265]	[0.009, 0.266]	[0.009, 0.268]	[0.012, 0.257]	[0.016, 0.275]	[0.017, 0.262]	[0.024, 0.261]																					
	4	[0.007, 0.269]	[0.006, 0.275]	[0.008, 0.276]	[0.004, 0.255]	[0.005, 0.237]	[0.004, 0.250]	[0.004, 0.229]	[0.003, 0.234]	[0.004, 0.224]																					
		[0.007, 0.314]	[0.008, 0.322]	[0.008, 0.319]	[0.013, 0.313]	[0.015, 0.313]	[0.018, 0.329]	[0.018, 0.310]	[0.028, 0.318]	[0.029, 0.317]																					
	6	[0.021, 0.340]	[0.013, 0.311]	[0.017, 0.320]	[0.009, 0.301]	[0.012, 0.293]	[0.009, 0.278]	[0.006, 0.303]	[0.008, 0.289]	[0.007, 0.283]																					
		[0.009, 0.374]	[0.008, 0.382]	[0.009, 0.382]	[0.015, 0.377]	[0.011, 0.388]	[0.014, 0.390]	[0.021, 0.377]	[0.030, 0.377]	[0.030, 0.367]																					
	8	[0.033, 0.394]	[0.030, 0.371]	[0.024, 0.382]	[0.023, 0.363]	[0.016, 0.373]	[0.021, 0.354]	[0.015, 0.336]	[0.012, 0.349]	[0.015, 0.351]																					
		[0.015, 0.430]	[0.009, 0.440]	[0.010, 0.439]	[0.017, 0.442]	[0.013, 0.455]	[0.024, 0.451]	[0.017, 0.445]	[0.021, 0.443]	[0.039, 0.451]																					
	10	[0.053, 0.440]	[0.047, 0.451]	[0.058, 0.445]	[0.045, 0.430]	[0.037, 0.434]	[0.041, 0.417]	[0.028, 0.408]	[0.026, 0.414]	[0.027, 0.405]																					
		[0.001, 0.089]	[0.001, 0.088]	[0.001, 0.085]	[0.001, 0.090]	[0.002, 0.089]	[0.002, 0.087]	[0.003, 0.092]	[0.003, 0.088]	[0.004, 0.094]																					
200 samples	2	[0.002, 0.139]	[0.002, 0.132]	[0.002, 0.135]	[0.001, 0.097]	[0.001, 0.098]	[0.001, 0.090]	[0.001, 0.095]	[0.001, 0.084]																						
		[0.002, 0.108]	[0.001, 0.107]	[0.001, 0.102]	[0.002, 0.100]	[0.002, 0.105]	[0.002, 0.105]	[0.002, 0.103]	[0.003, 0.099]	[0.004, 0.114]																					
	4	[0.004, 0.182]	[0.004, 0.158]	[0.004, 0.166]	[0.002, 0.140]	[0.001, 0.127]	[0.001, 0.128]	[0.001, 0.130]	[0.001, 0.115]	[0.001, 0.109]																					
		[0.002, 0.126]	[0.002, 0.120]	[0.001, 0.122]	[0.002, 0.117]	[0.002, 0.116]	[0.002, 0.121]	[0.003, 0.123]	[0.003, 0.116]	[0.004, 0.120]																					
	6	[0.008, 0.209]	[0.004, 0.192]	[0.006, 0.184]	[0.003, 0.159]	[0.002, 0.154]	[0.002, 0.157]	[0.002, 0.150]	[0.003, 0.159]	[0.002, 0.153]																					
		[0.003, 0.145]	[0.002, 0.145]	[0.002, 0.143]	[0.002, 0.129]	[0.002, 0.126]	[0.002, 0.126]	[0.003, 0.124]	[0.002, 0.128]	[0.003, 0.126]																					
	8	[0.013, 0.249]	[0.011, 0.252]	[0.009, 0.225]	[0.006, 0.204]	[0.004, 0.209]	[0.003, 0.182]	[0.004, 0.190]	[0.003, 0.170]	[0.003, 0.193]																					
		[0.002, 0.171]	[0.003, 0.170]	[0.002, 0.169]	[0.002, 0.140]	[0.002, 0.145]	[0.003, 0.150]	[0.003, 0.141]	[0.003, 0.147]	[0.003, 0.147]																					
	10	[0.028, 0.288]	[0.024, 0.288]	[0.017, 0.278]	[0.013, 0.241]	[0.009, 0.243]	[0.007, 0.234]	[0.005, 0.218]	[0.004, 0.230]	[0.004, 0.207]																					
		[0.001, 0.070]	[0.001, 0.061]	[0.001, 0.059]	[0.001, 0.040]	[0.001, 0.039]	[0.001, 0.045]	[0.001, 0.042]	[0.001, 0.039]	[0.001, 0.041]																					
400 samples	2	[0.001, 0.083]	[0.001, 0.076]	[0.001, 0.068]	[0.000, 0.044]	[0.001, 0.041]	[0.000, 0.042]	[0.001, 0.045]	[0.001, 0.037]																						
		[0.001, 0.088]	[0.001, 0.080]	[0.001, 0.071]	[0.001, 0.045]	[0.001, 0.042]	[0.001, 0.044]	[0.001, 0.045]	[0.001, 0.045]	[0.001, 0.044]																					
	4	[0.002, 0.109]	[0.002, 0.105]	[0.001, 0.092]	[0.001, 0.061]	[0.001, 0.054]	[0.001, 0.049]	[0.000, 0.047]	[0.000, 0.037]	[0.000, 0.038]																					
		[0.001, 0.110]	[0.001, 0.102]	[0.001, 0.104]	[0.001, 0.055]	[0.001, 0.048]	[0.001, 0.050]	[0.001, 0.048]	[0.001, 0.049]	[0.001, 0.045]																					
	6	[0.003, 0.133]	[0.002, 0.125]	[0.002, 0.122]	[0.001, 0.085]	[0.001, 0.073]	[0.001, 0.068]	[0.001, 0.058]	[0.001, 0.055]	[0.000, 0.051]																					
		[0.002, 0.150]	[0.002, 0.140]	[0.002, 0.134]	[0.001, 0.085]	[0.001, 0.072]	[0.001, 0.063]	[0.001, 0.052]	[0.001, 0.049]	[0.001, 0.046]																					
	8	[0.006, 0.181]	[0.005, 0.166]	[0.004, 0.159]	[0.001, 0.117]	[0.001, 0.107]	[0.001, 0.097]	[0.001, 0.087]	[0.001, 0.071]	[0.001, 0.071]																					
		[0.002, 0.178]	[0.003, 0.167]	[0.002, 0.173]	[0.002, 0.127]	[0.001, 0.119]	[0.001, 0.111]	[0.001, 0.070]	[0.001, 0.056]	[0.001, 0.055]																					
	10	[0.012, 0.212]	[0.010, 0.203]	[0.012, 0.207]	[0.004, 0.156]	[0.004, 0.158]	[0.002, 0.145]	[0.001, 0.122]	[0.001, 0.116]	[0.001, 0.099]																					

Table 2: 95% confidence interval of error of the estimated regional measure with respect to the true bivariate GC with weights known for differing sample sizes N , AR model order P , SIR and SNR. The bold text is the error for CGC and the *italics* is for GCCA. As the number of samples or the order increases, CGC performs better than GCCA. In addition, as SNR decreases, CGC performs worse.

N	P	SNR = 1			SNR = 5			SNR = 25		
		SIR = 1	SIR = 5	SIR = 25	SIR = 1	SIR = 5	SIR = 25	SIR = 1	SIR = 5	SIR = 25
100 samples										
	2	44.20%	45.47%	44.29%	32.13%	32.27%	30.29%	25.43%	28.19%	26.86%
	4	52.07%	48.27%	47.81%	39.87%	37.67%	36.48%	35.62%	32.19%	31.71%
	6	52.33%	50.33%	49.43%	44.00%	41.07%	39.43%	41.90%	38.10%	38.00%
	8	54.13%	53.13%	52.38%	46.13%	47.67%	42.76%	44.38%	38.57%	41.81%
	10	54.60%	55.40%	53.43%	49.93%	48.53%	48.48%	45.33%	44.48%	44.57%
200 samples										
	2	65.27%	62.67%	61.81%	45.60%	42.67%	41.81%	34.95%	35.05%	32.95%
	4	70.60%	68.87%	68.48%	55.27%	51.07%	48.57%	42.57%	40.48%	39.24%
	6	77.47%	74.67%	73.71%	59.73%	56.13%	53.05%	48.95%	50.10%	46.00%
	8	81.00%	82.00%	78.67%	67.53%	67.00%	59.05%	57.62%	54.76%	53.62%
	10	87.20%	86.40%	82.67%	77.47%	76.60%	73.05%	66.10%	64.57%	61.62%
400 samples										
	2	75.40%	72.47%	69.43%	41.13%	37.53%	32.10%	17.62%	15.05%	11.62%
	4	83.73%	80.47%	79.90%	56.60%	50.73%	46.76%	26.57%	24.48%	23.14%
	6	87.07%	87.20%	84.57%	65.33%	63.27%	58.76%	39.33%	38.29%	33.71%
	8	92.73%	92.40%	90.29%	78.47%	76.40%	72.00%	53.71%	50.48%	47.33%
	10	94.80%	94.80%	94.67%	86.80%	88.27%	85.81%	70.10%	68.38%	65.05%

Table 3: Percentage of simulations in which CGC is closer to the true causality in simulation than GCCA. **Bold** indicates those parameters for which CGC has less error a majority of the time. At low SNR or high model order P , CGC is closer to the true causality than GCCA for most simulations. For low numbers of samples and low model order, GCCA benefits from having fewer parameters, and is thus a slightly better estimator of the underlying causality; however, based on Table 2 both metrics are poor in estimating the underlying causality.