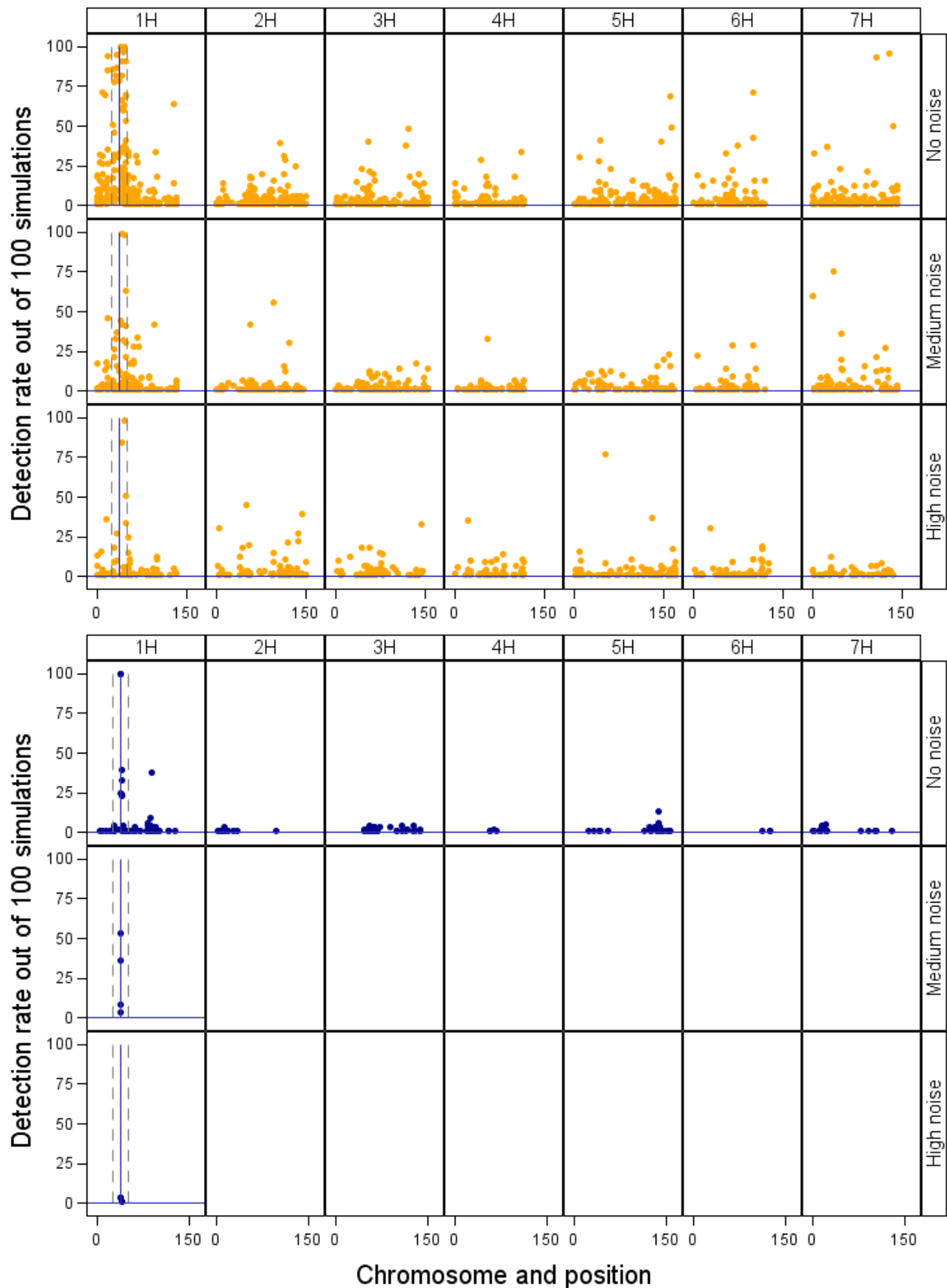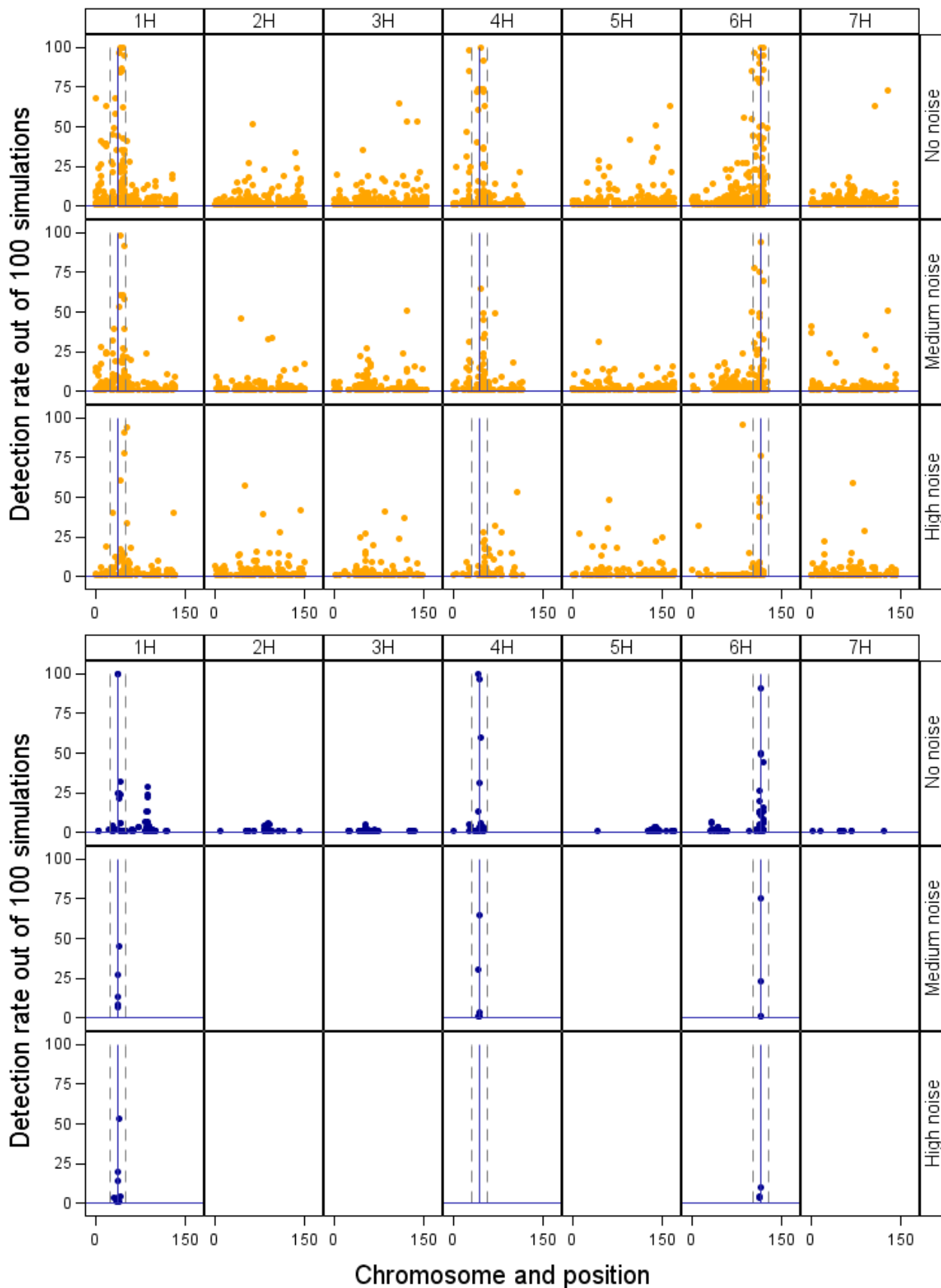**Figure S4) Detection rates of significant associations by model IBS-M and IBD-MxF.**

A) 1 parent-specific QTL simulated

Orange dots represent IBS-M, blue dots IBD-MxF. The true position of the simulated QTL and the interval used for cumulating IBS-M SNP estimates are indicated by vertical lines. Three different simulated traits with increasing noise are shown.
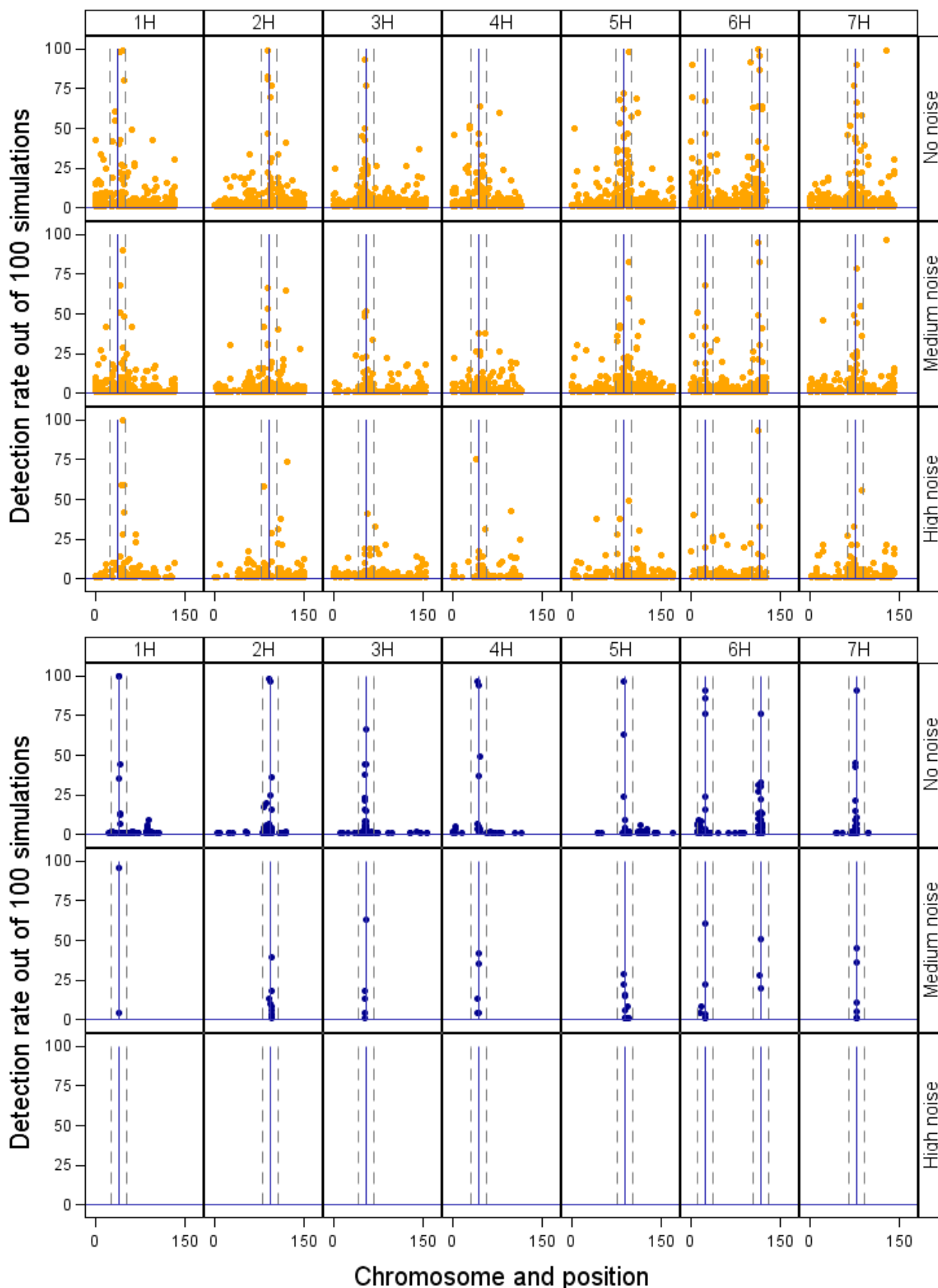
B) 3 parent-specific QTL simulated

Orange dots represent IBS-M, blue dots IBD-MxF. The true position of the simulated QTL and the interval used for cumulating IBS-M SNP estimates are indicated by vertical lines. Three different simulated traits with increasing noise are shown.

C) 8 parent-specific QTL simulated

Orange dots represent IBS-M, blue dots IBD-MxF. The true position of the simulated QTL and the interval used for cumulating IBS-M SNP estimates are indicated by vertical lines. Three different simulated traits with increasing noise are shown.