Figure S1 Likelihood ratio test (LRT) statistic vs. Chi-squared test-statistic in a univariate analysis. LRT = 2(ln L₁ − ln L₀) with L₀ and L₁ being the log-likelihood function of REML evaluated under the null and alternative hypotheses respectively, and χ² = 〈h² / var(〈h²)〉 with the red dots representing χ² values calculated based on the observed sampling variance in the simulation and the blue crosses representing χ² values calculated based on the predicted sampling variance from our approximation theory. The simulations were performed at three levels of heritability, panel a) h² = 0.2 , panel b) h² = 0.5 and panel c) h² = 0.8 (see Text S1 for details of the simulation design). Each plotted value is an average from 100 simulations.