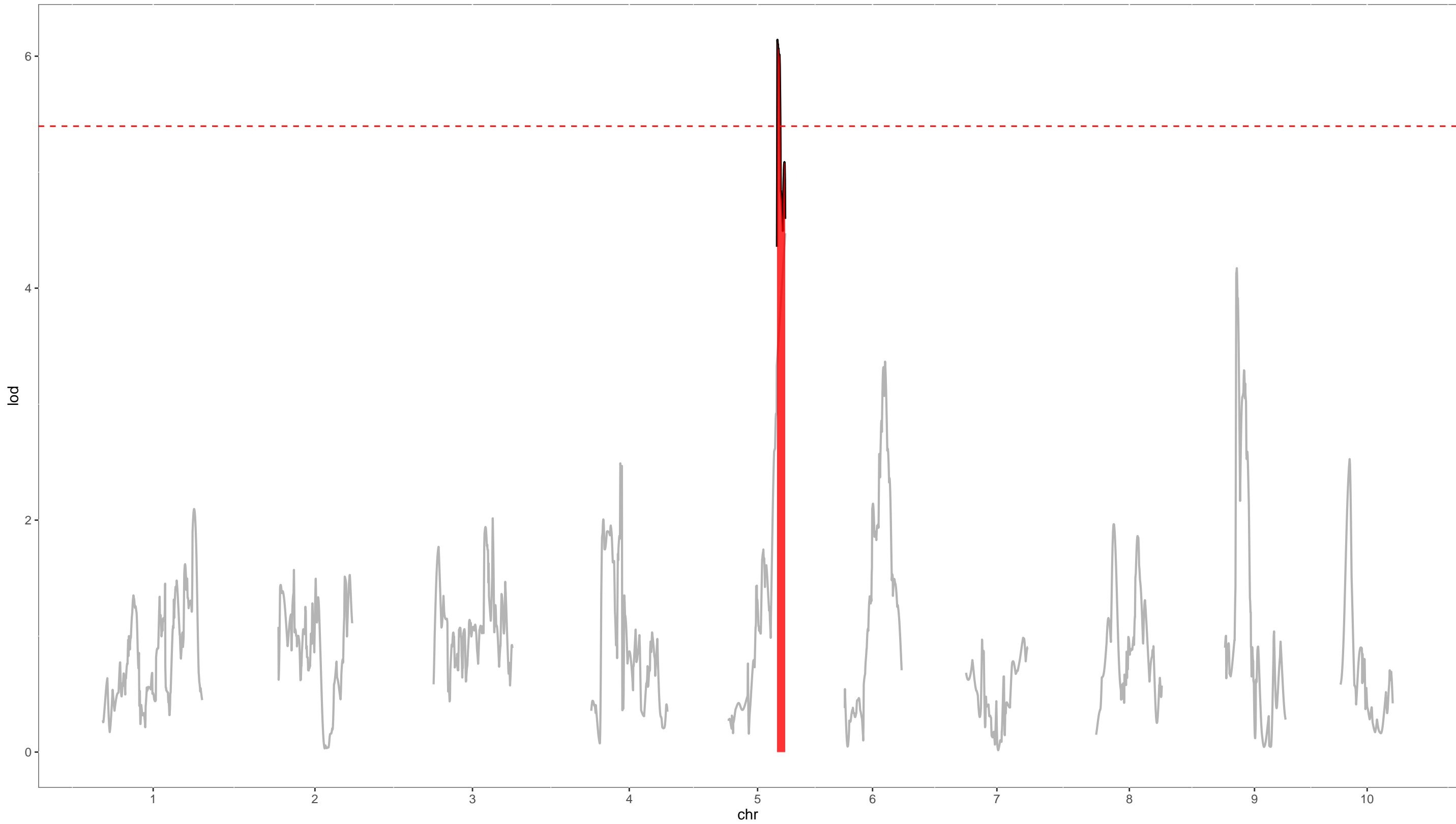
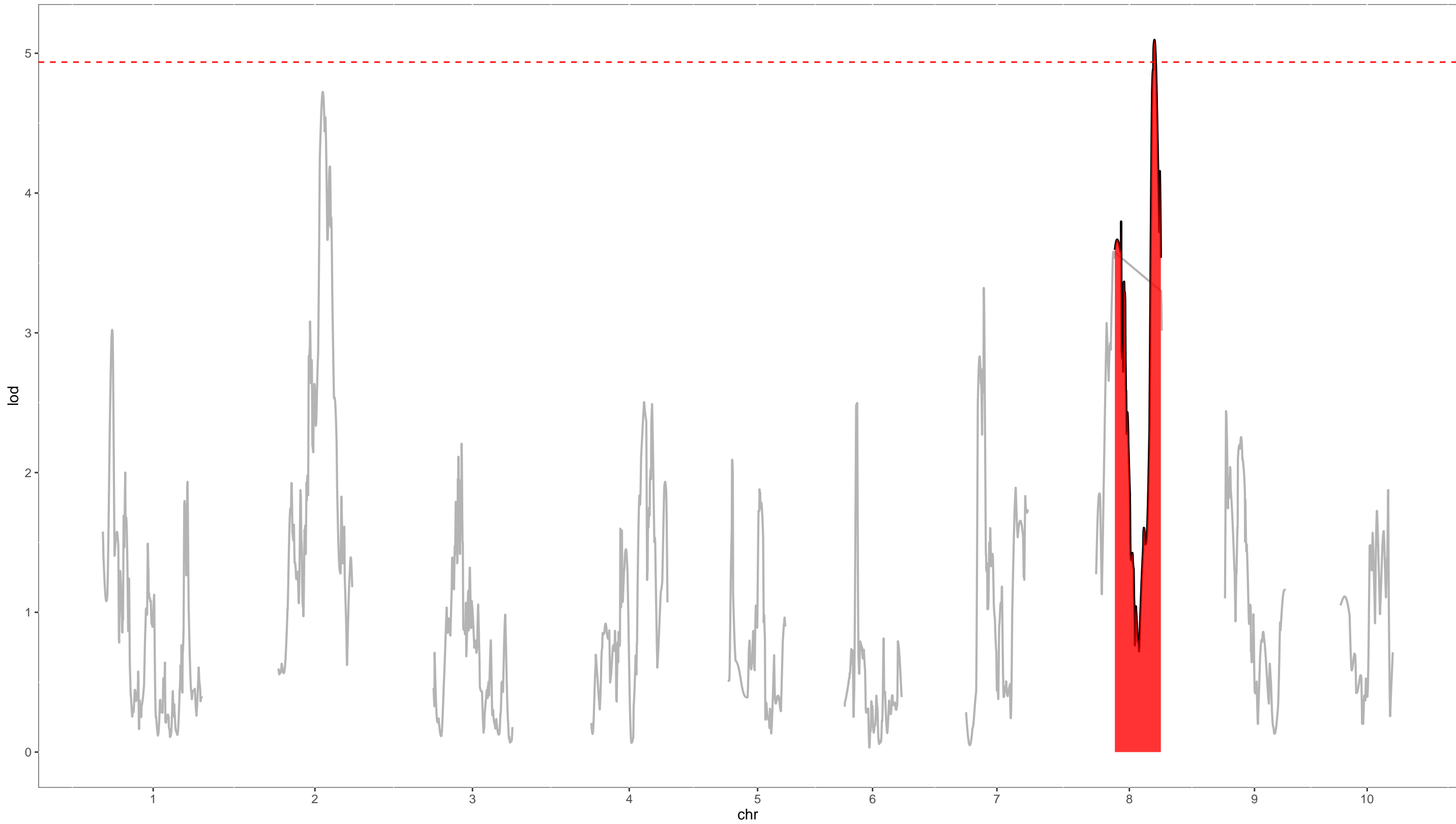


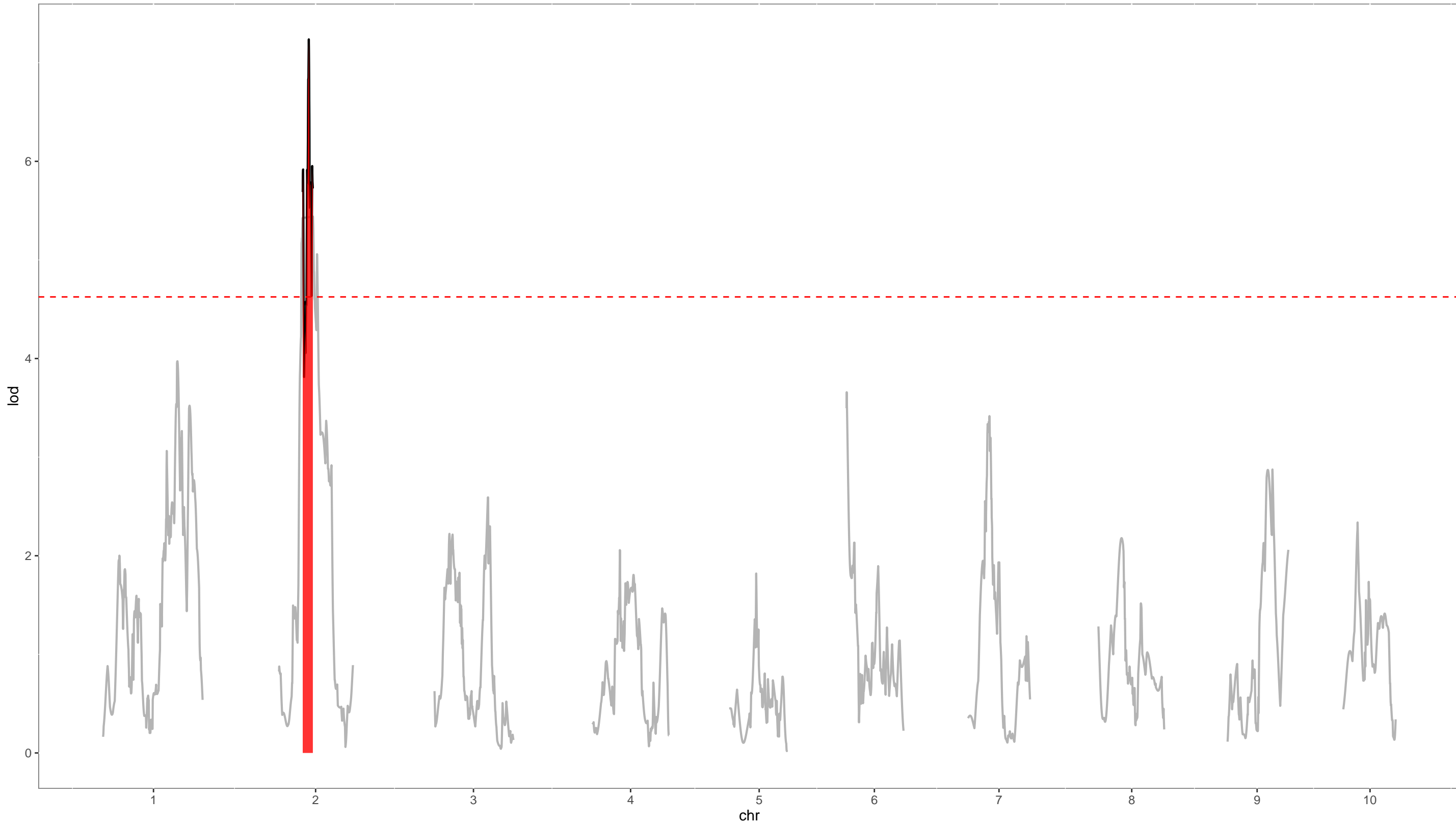
## QTL analysis for intuitive covariate for AI\_ratio



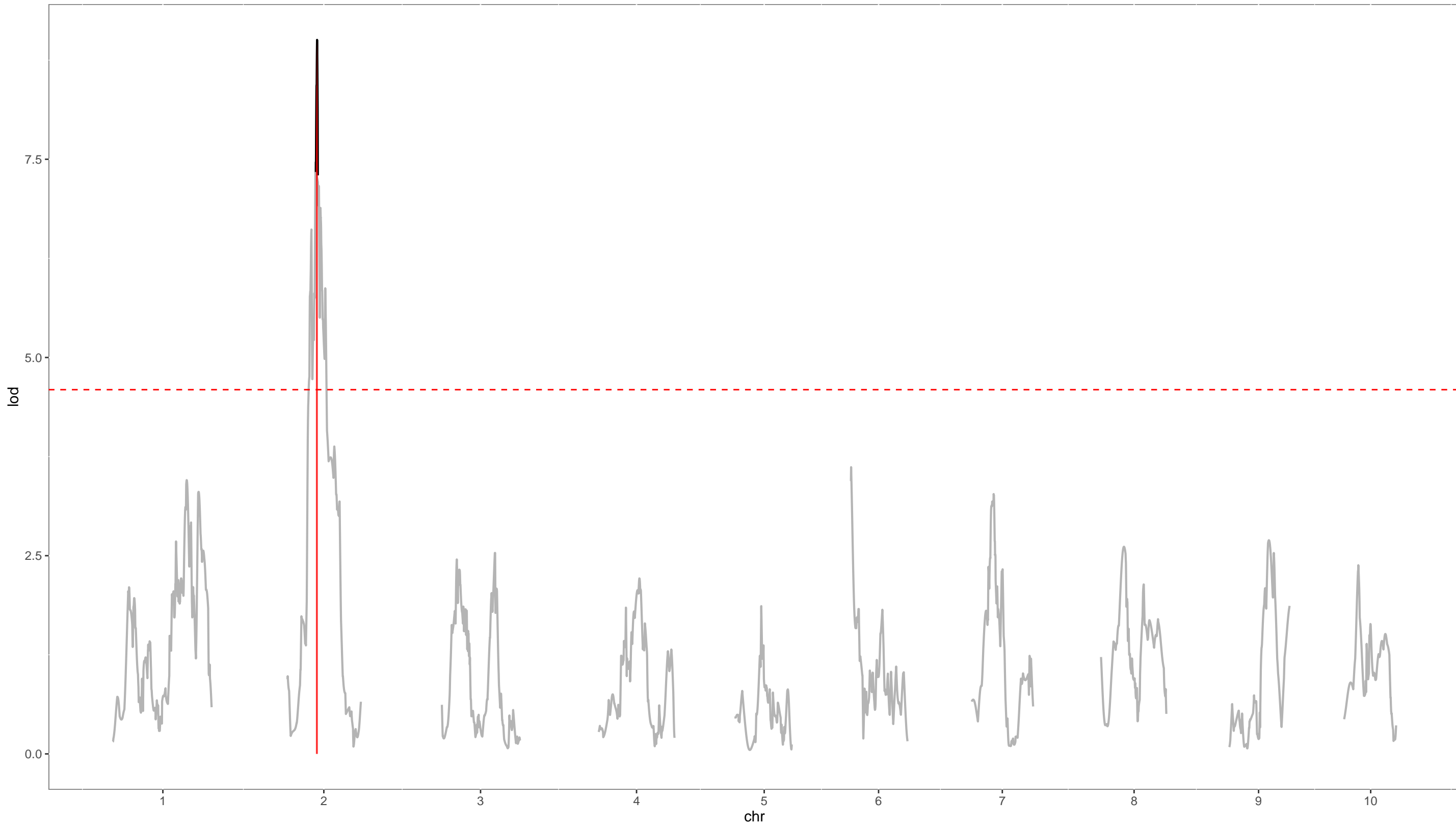
## QTL analysis for intuitive covariate for As\_seed



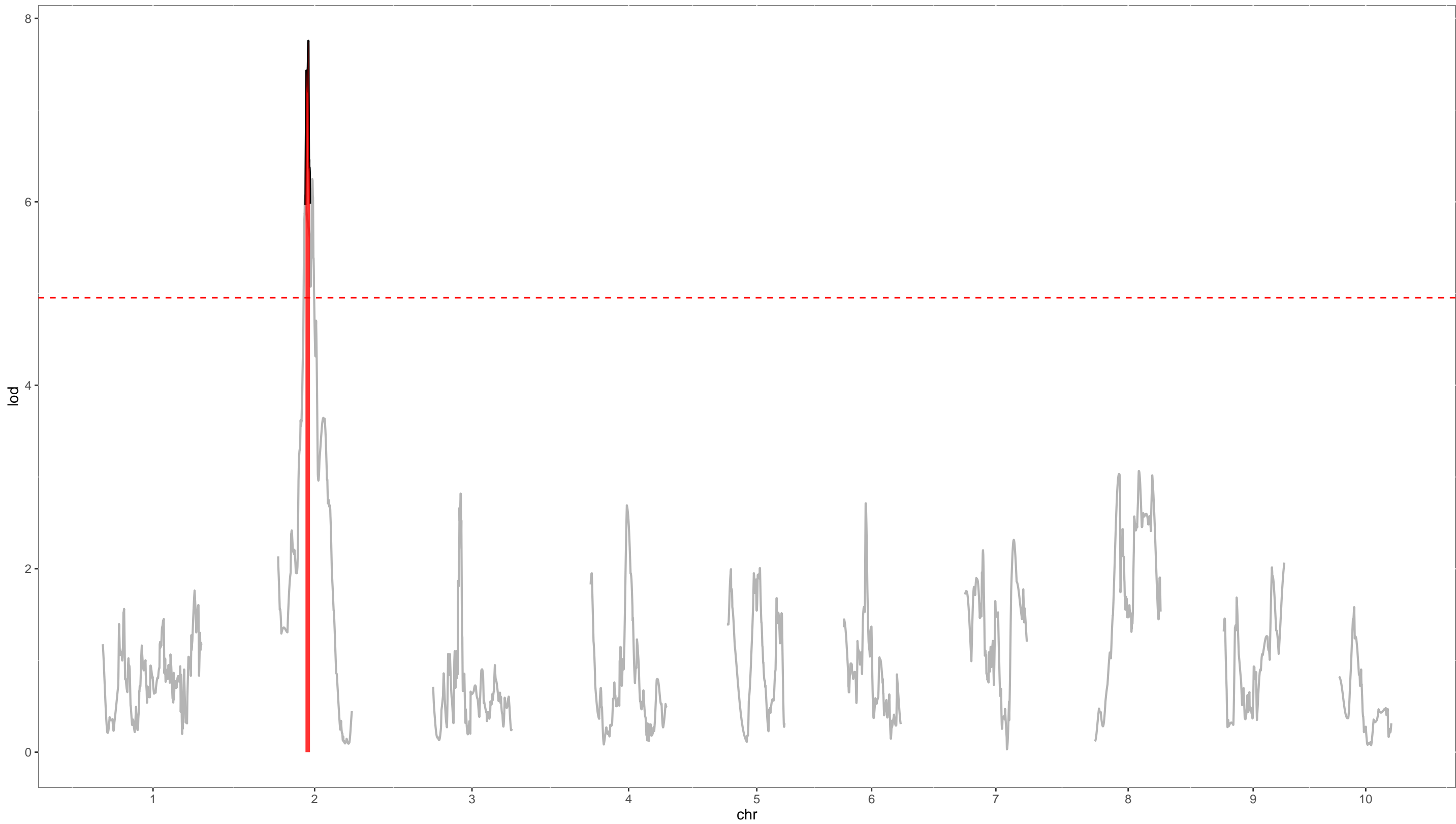
## QTL analysis for intuitive covariate for Cd\_leaf



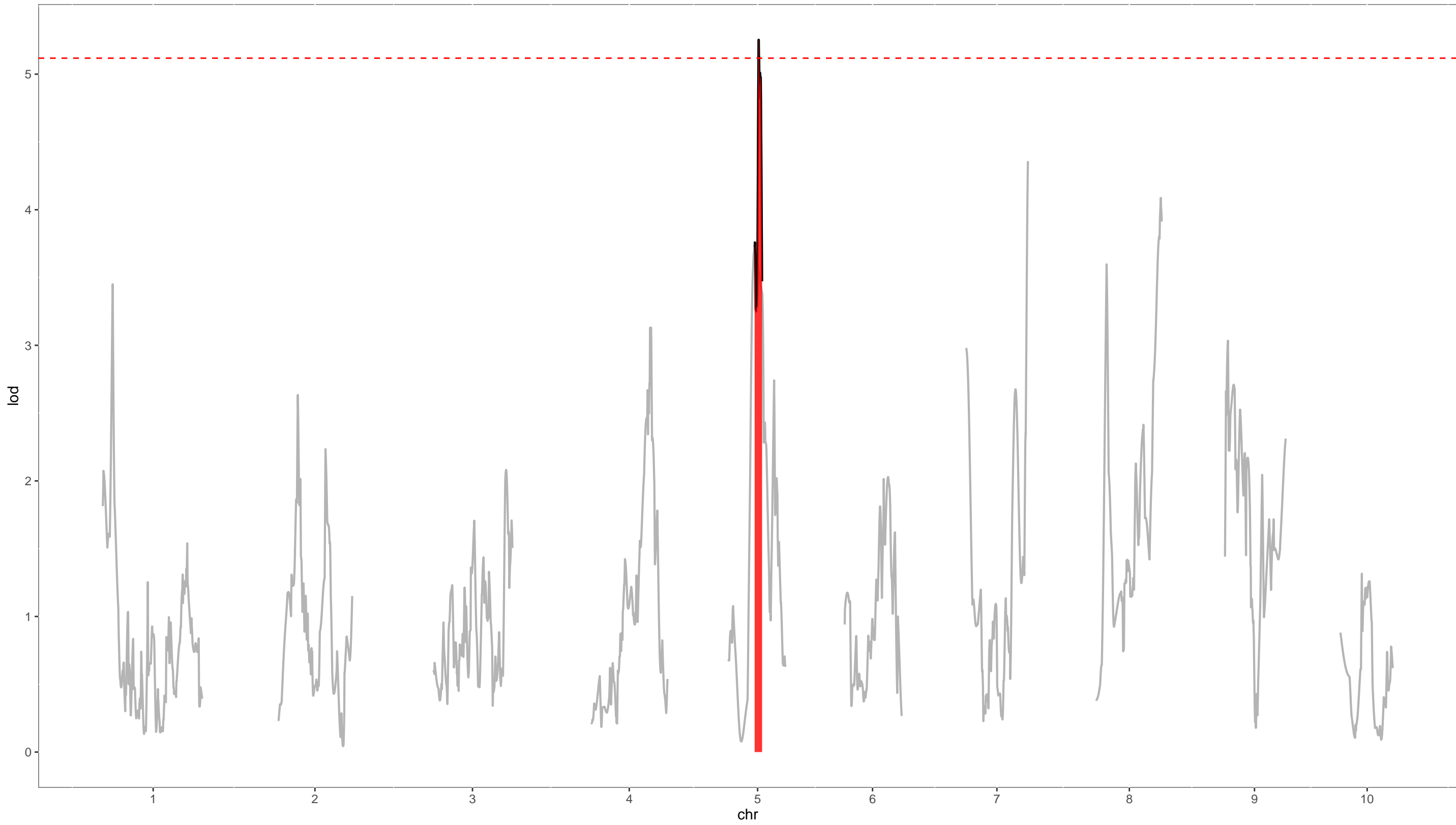
## QTL analysis for intuitive covariate for Cd\_mean



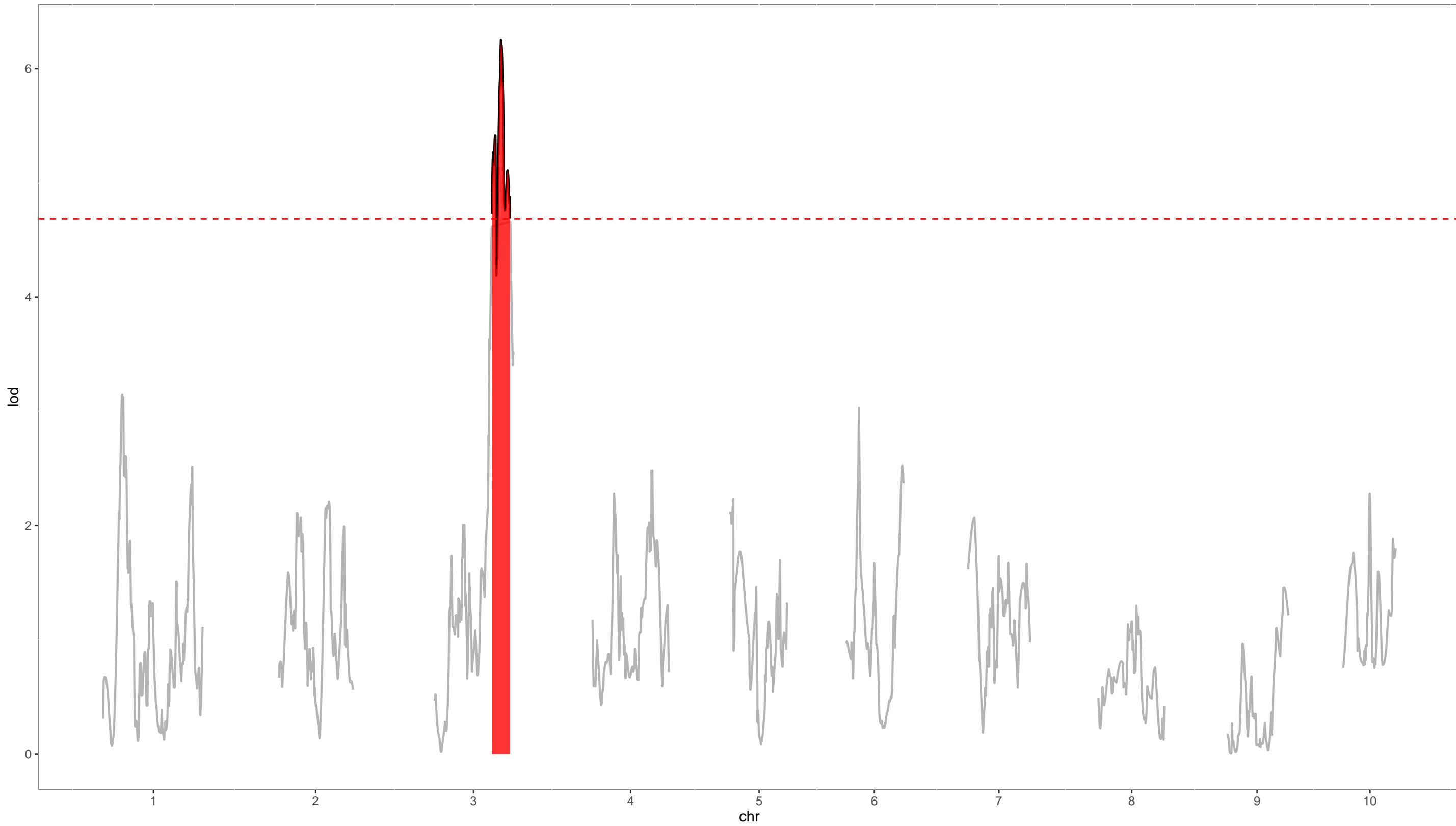
## QTL analysis for intuitive covariate for Cd\_seed



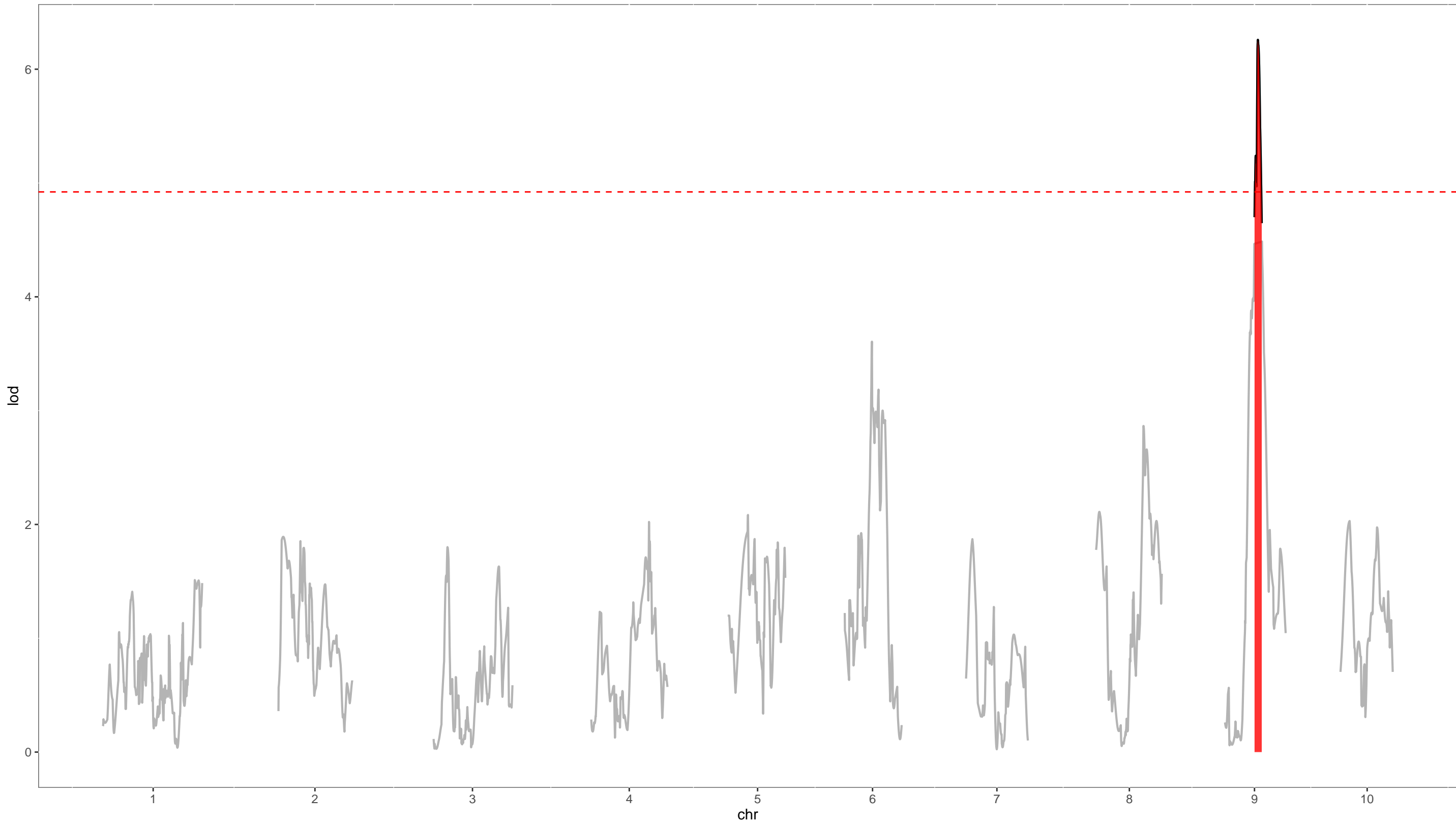
## QTL analysis for intuitive covariate for Fe\_ratio



## QTL analysis for intuitive covariate for K\_ratio

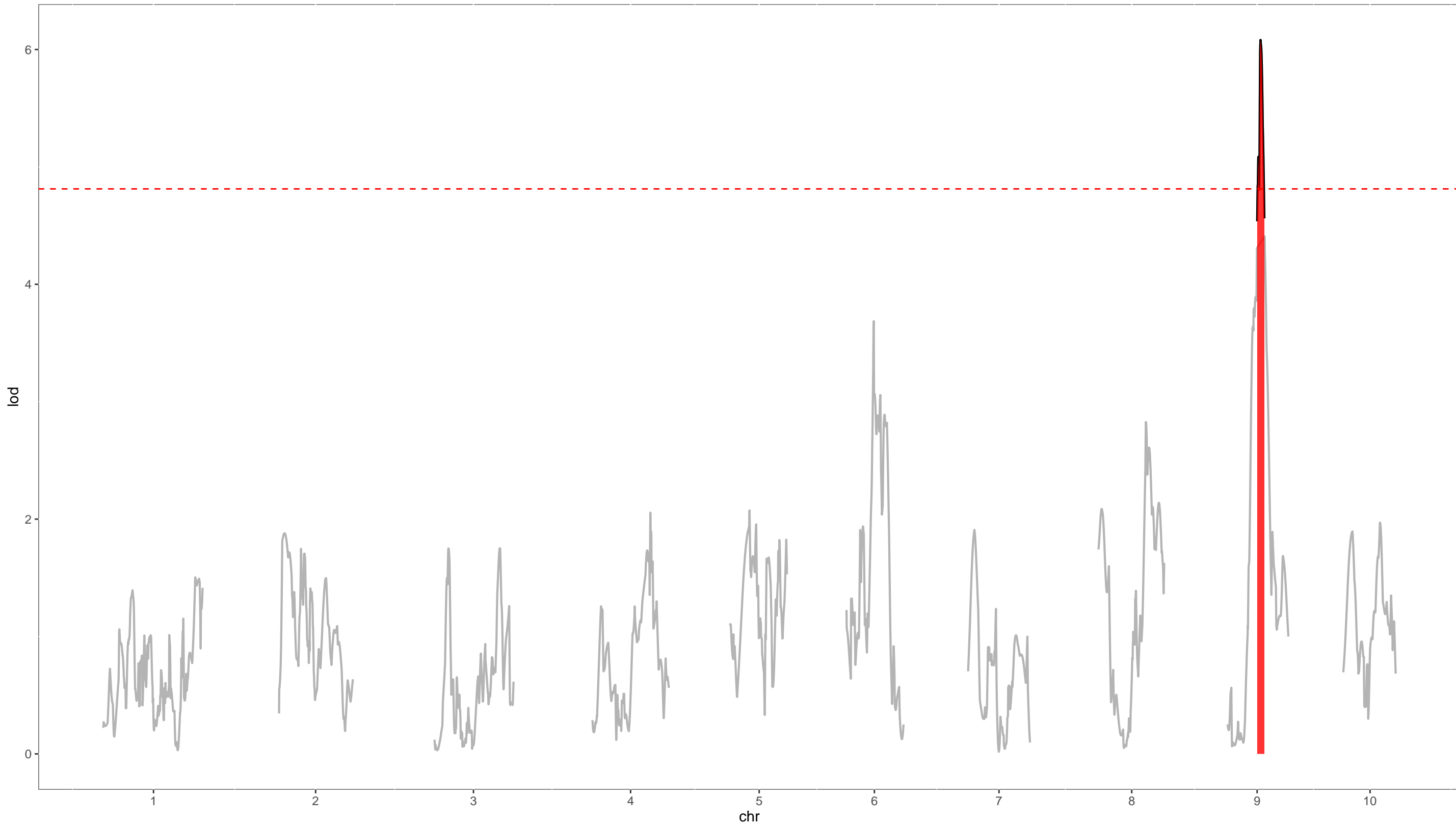


## QTL analysis for intuitive covariate for Na\_leaf

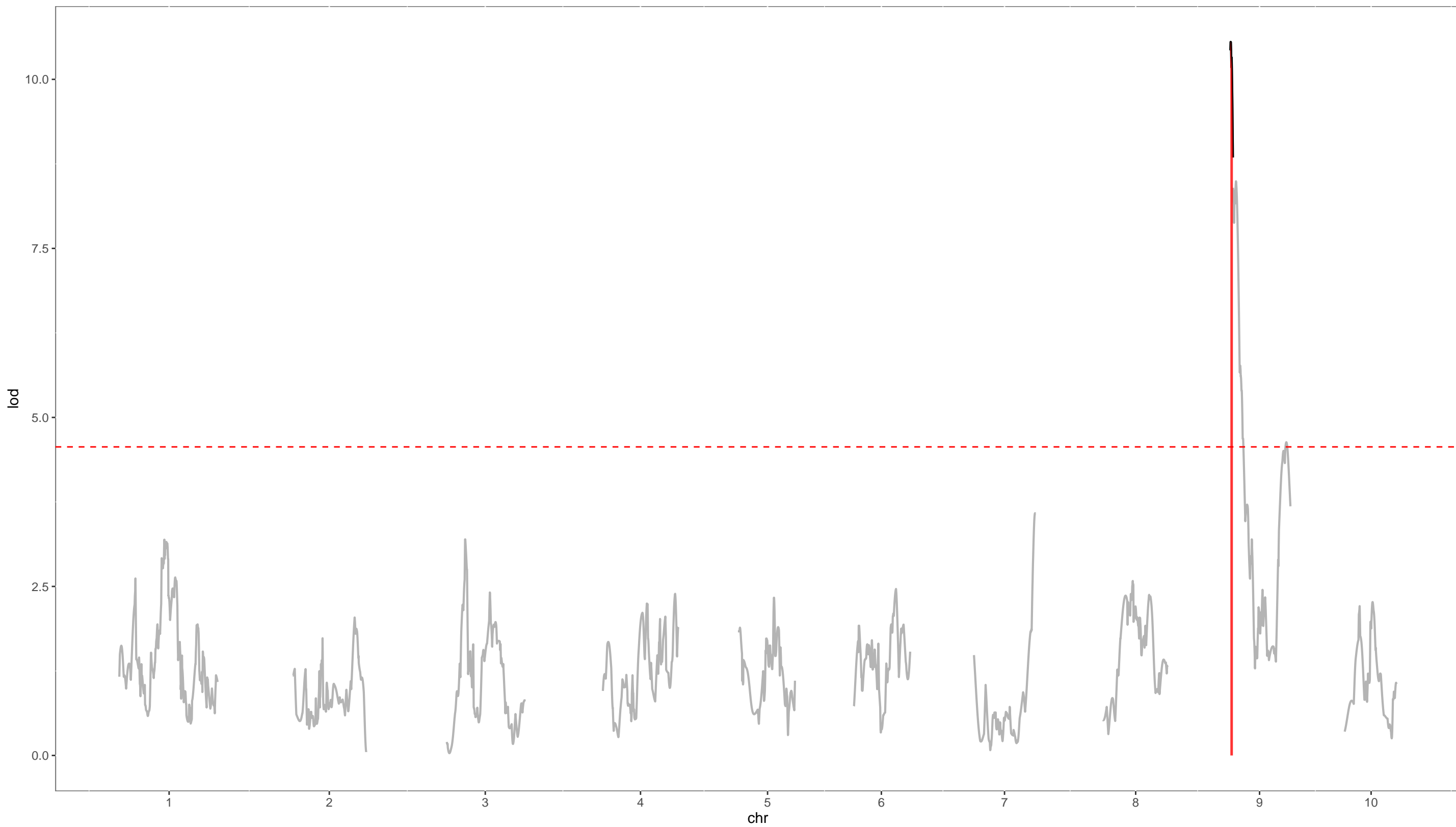




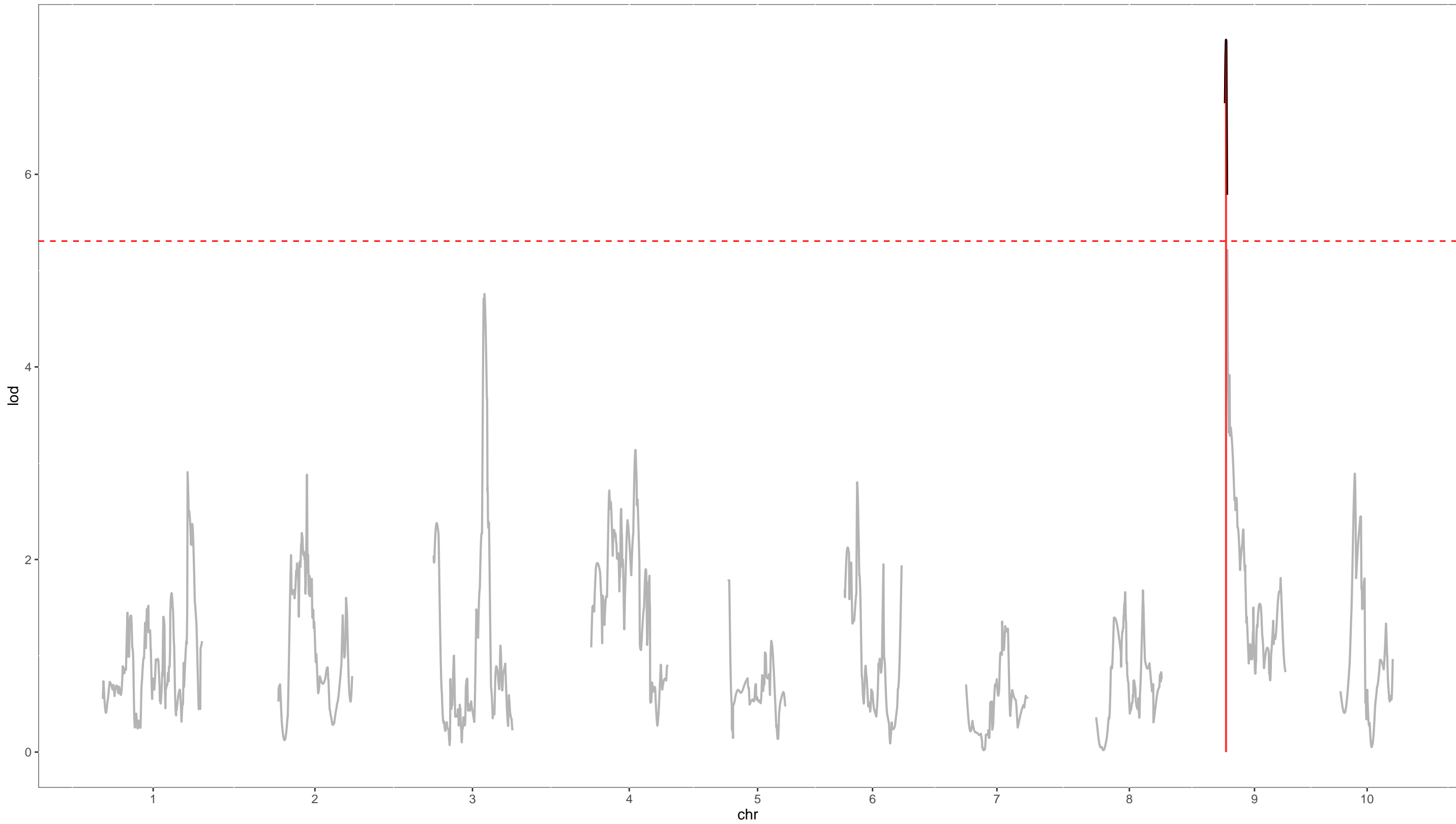
## QTL analysis for intuitive covariate for Na\_mean



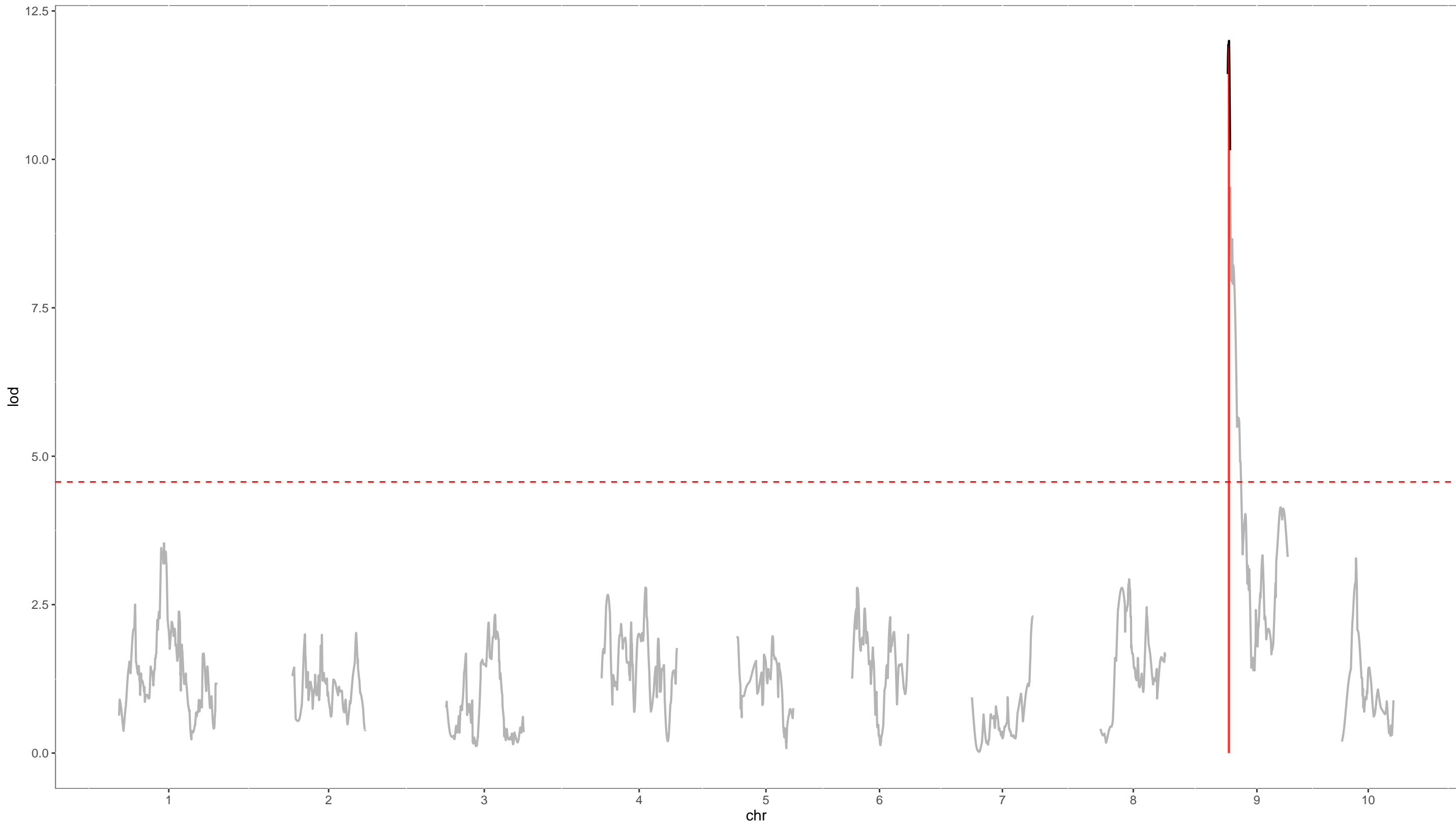
QTL analysis for intuitive covariate for Ni\_mean



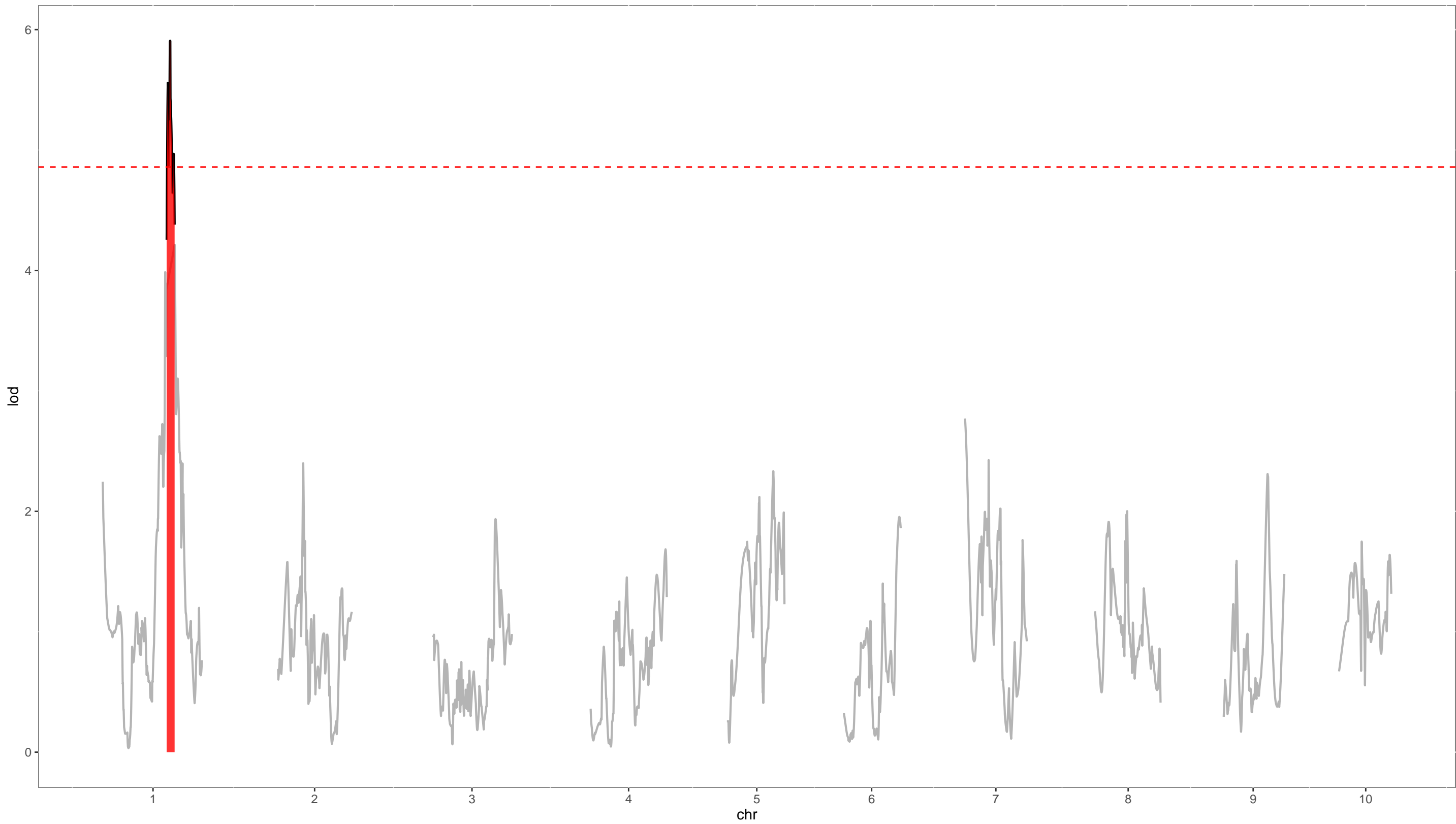
## QTL analysis for intuitive covariate for Ni\_ratio



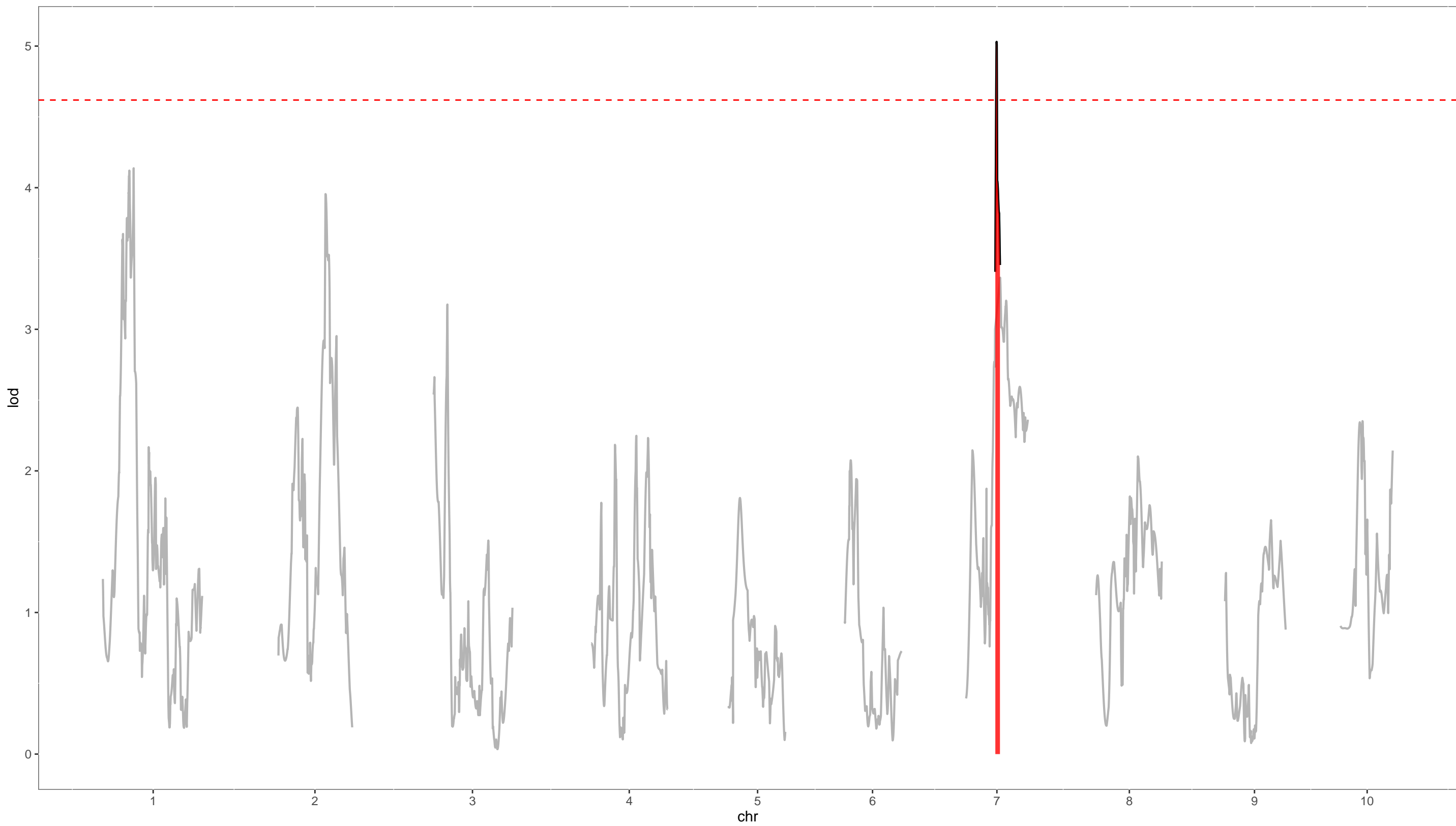
## QTL analysis for intuitive covariate for Ni\_seed



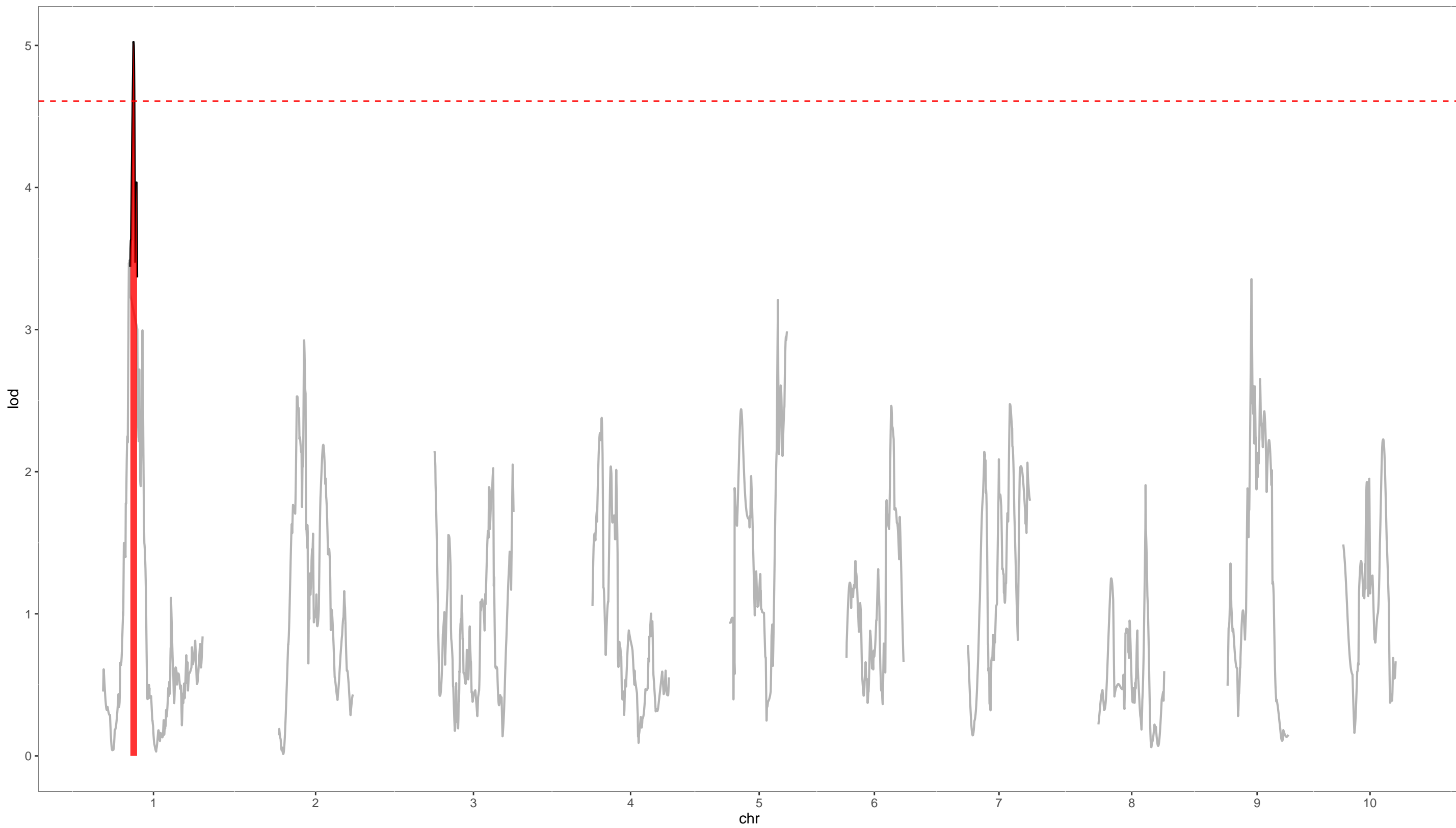
## QTL analysis for intuitive covariate for P\_mean



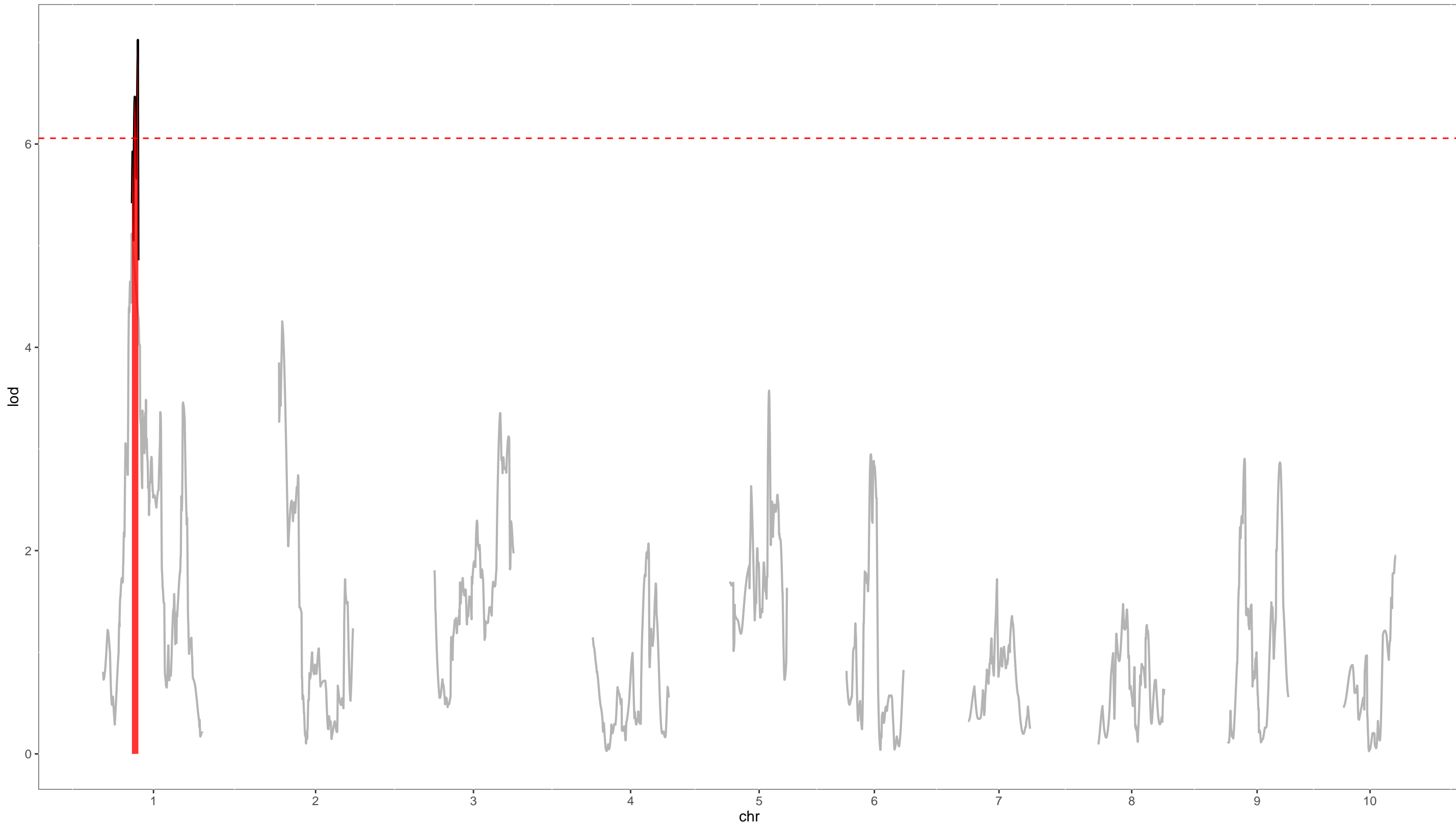
## QTL analysis for intuitive covariate for P\_ratio



## QTL analysis for intuitive covariate for S\_ratio



## QTL analysis for intuitive covariate for Sr\_ratio





## QTL analysis for intuitive covariate for Sr\_seed

