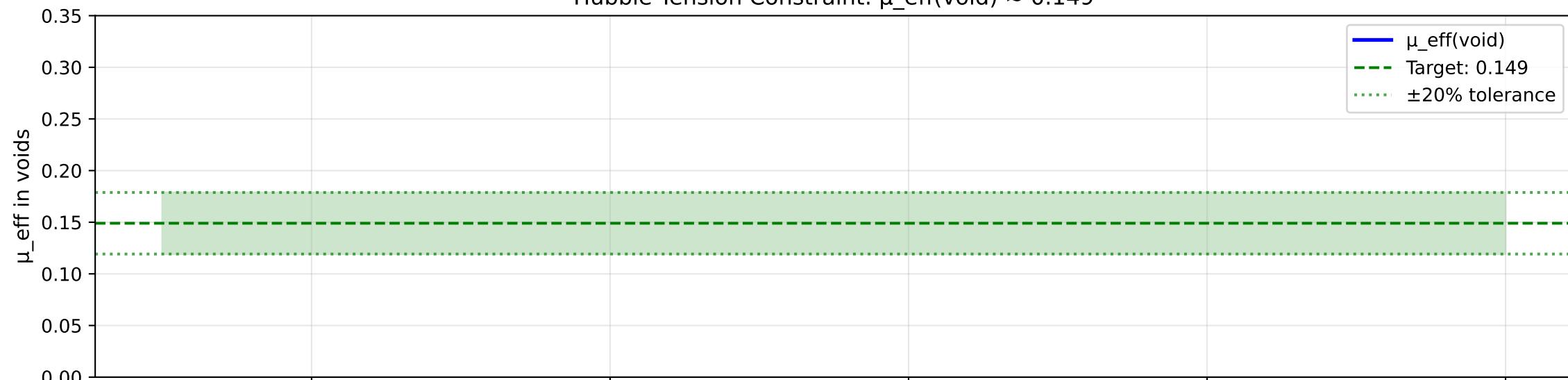
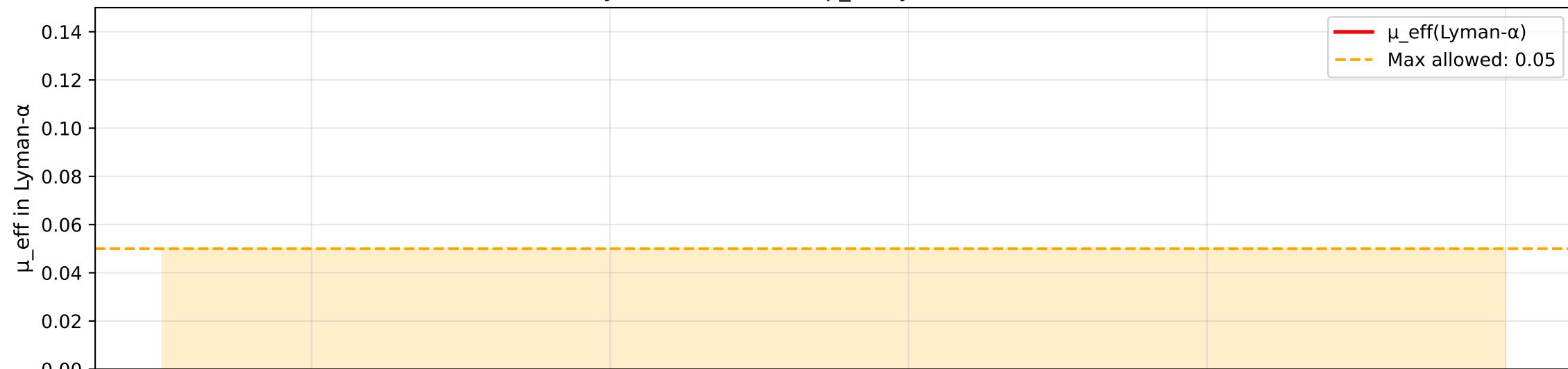


Hubble Tension Constraint: $\mu_{\text{eff}}(\text{void}) \approx 0.149$



Lyman- α Constraint: $\mu_{\text{eff}}(\text{Lyman-}\alpha) < 0.05$



Combined Constraint Satisfaction (Green = Valid Parameter Space)

