(a) $\frac{|E_{\pi,\text{up}}|^2}{|E_{\pi,\text{up}}|^2}$ $\frac{|\Psi_{2,2}|^2}{|\Psi_{1,-1}|^2}$ $\frac{|\Psi_{2,2}|^2}{|\Psi_{2,0}|^2}$ $\frac{|\Psi_{2,2}|^2}{|\Psi_{2,0}|^2}$ $\frac{|\Psi_{2,2}|^2}{|\Psi_{2,0}|^2}$ $\frac{|\Psi_{2,0}|^2}{|\Psi_{2,0}|^2}$ $\frac{|\Psi_{2,0}|^2}{|\Psi_{2,0}|^2}$

Zero outcoupling detuning $(\Delta_{RF} = 0)$

