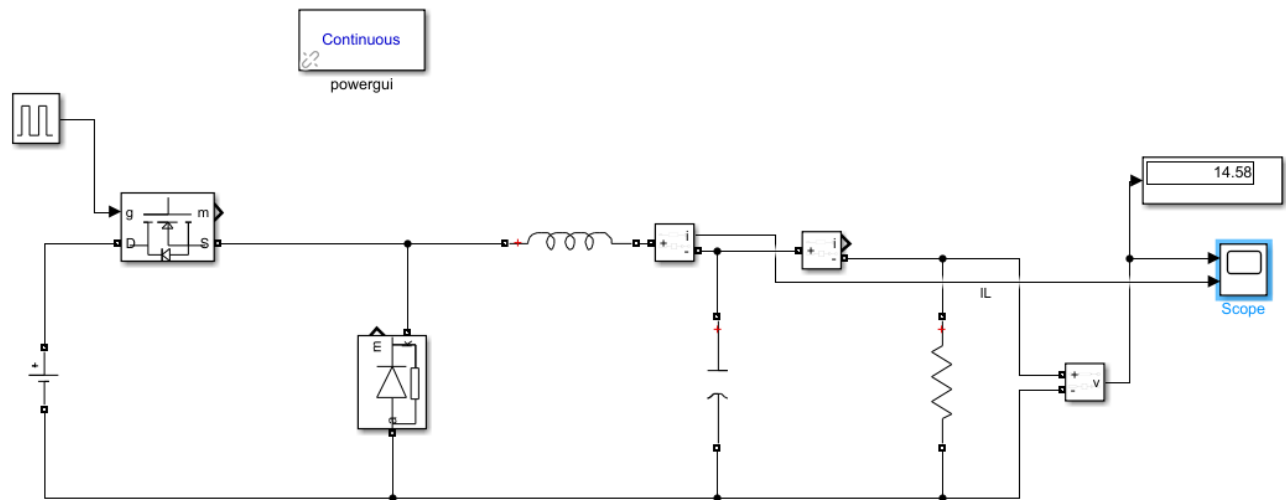
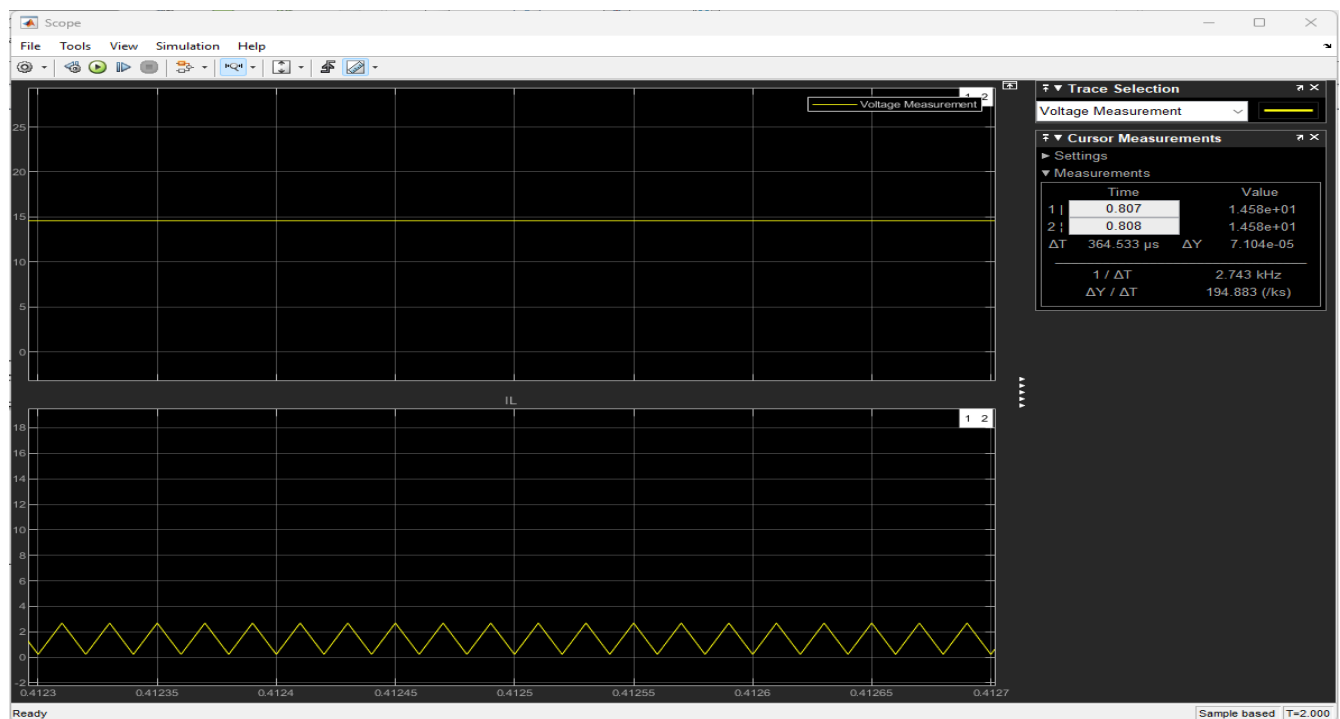


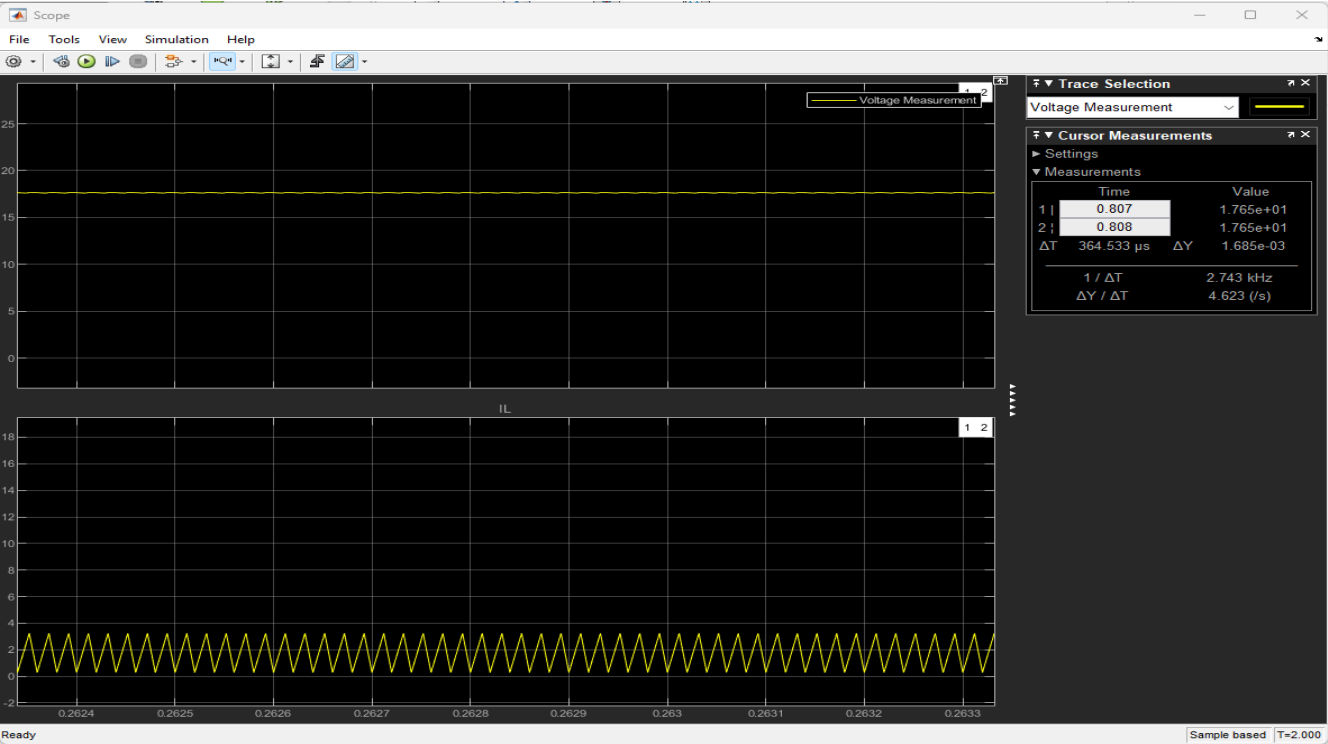
1.Single switch buck converter.



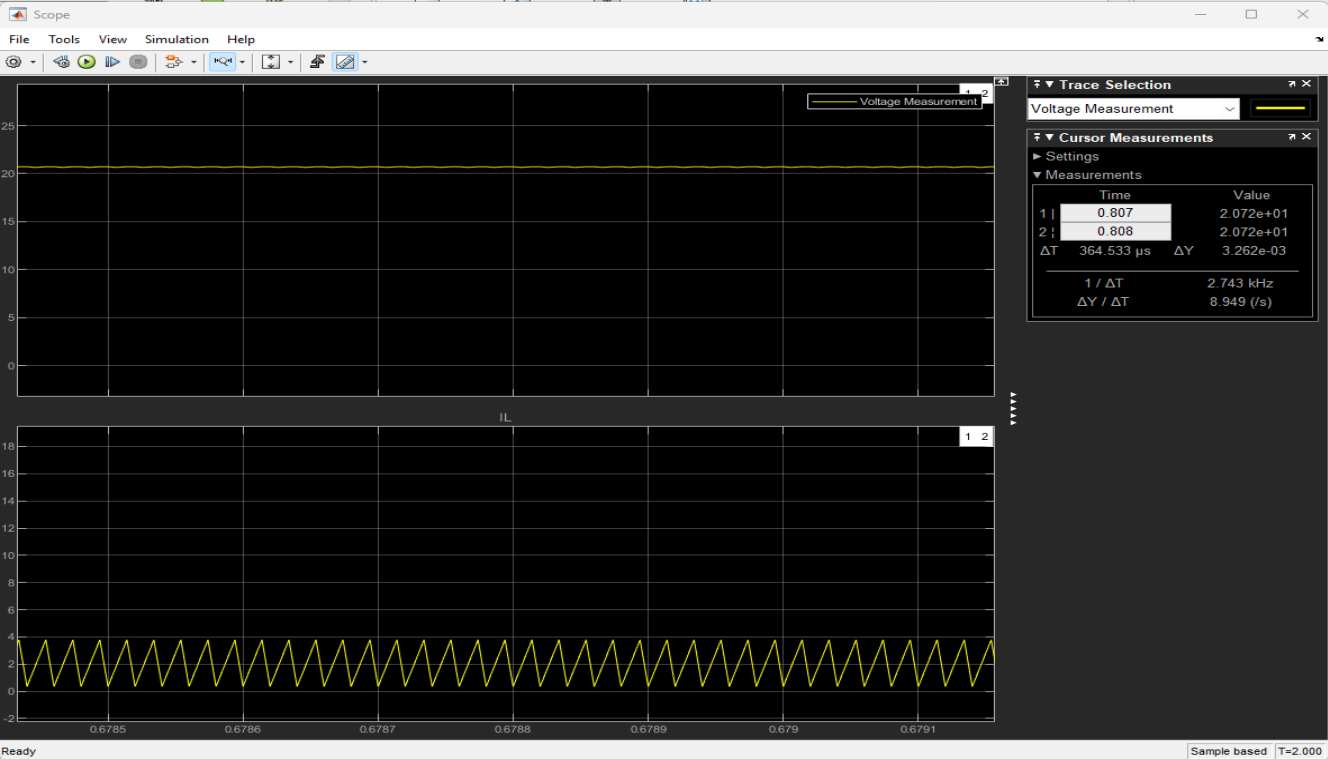
$D=0.5, V_{in}=30v, V_o=15v, R=10\Omega, r=0.005, L=62.5\mu H, C=80\mu F.$



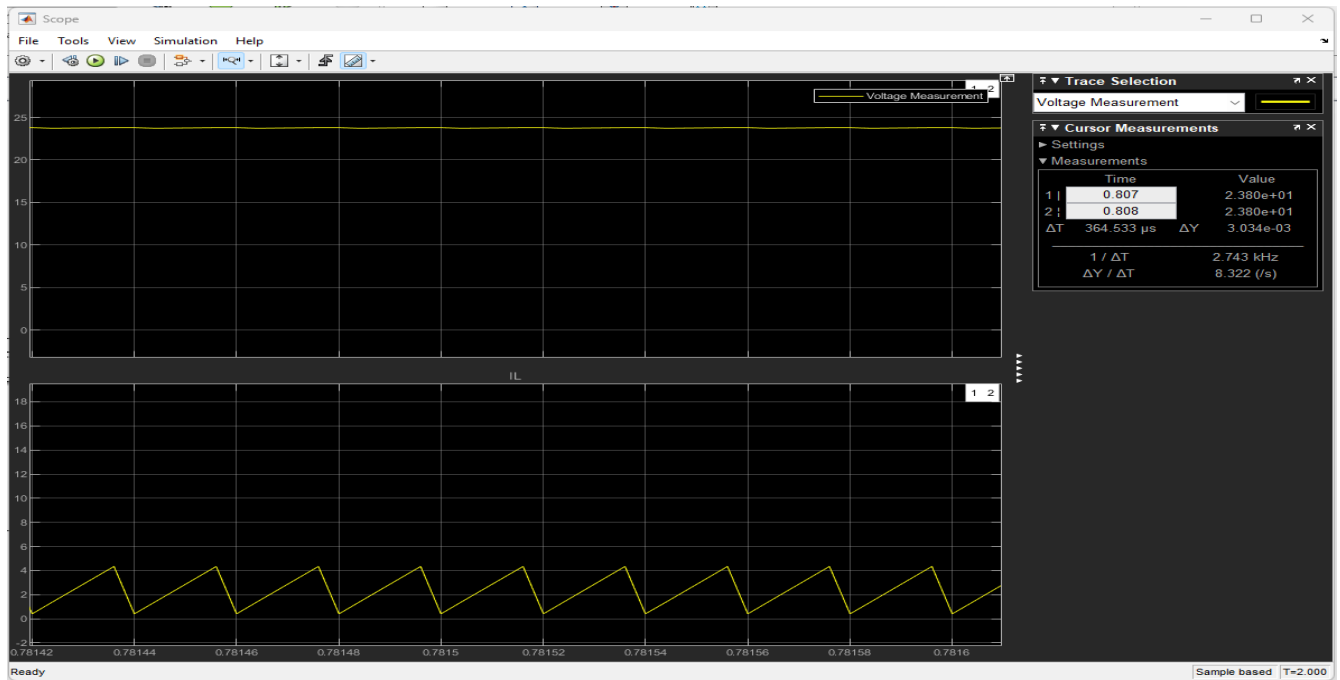
D=0.6,Vin=30v,Vo=18v,R=10Ω,r=0.005,L=50μH,C=80μF.



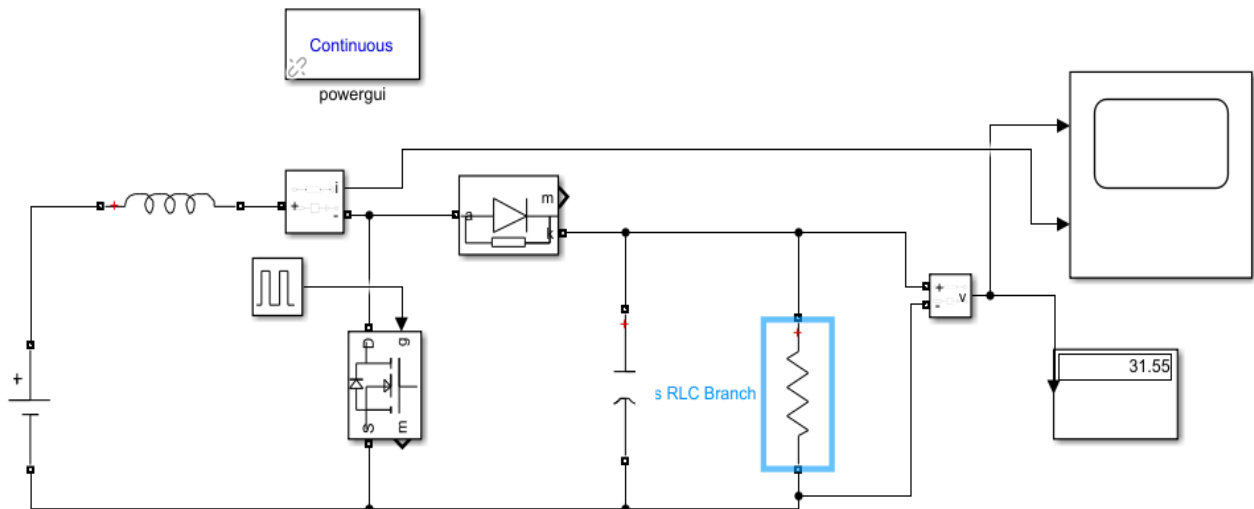
D=0.7,Vin=30v,Vo=21v,R=10Ω,r=0.005,L=37.5μH,C=80μF.



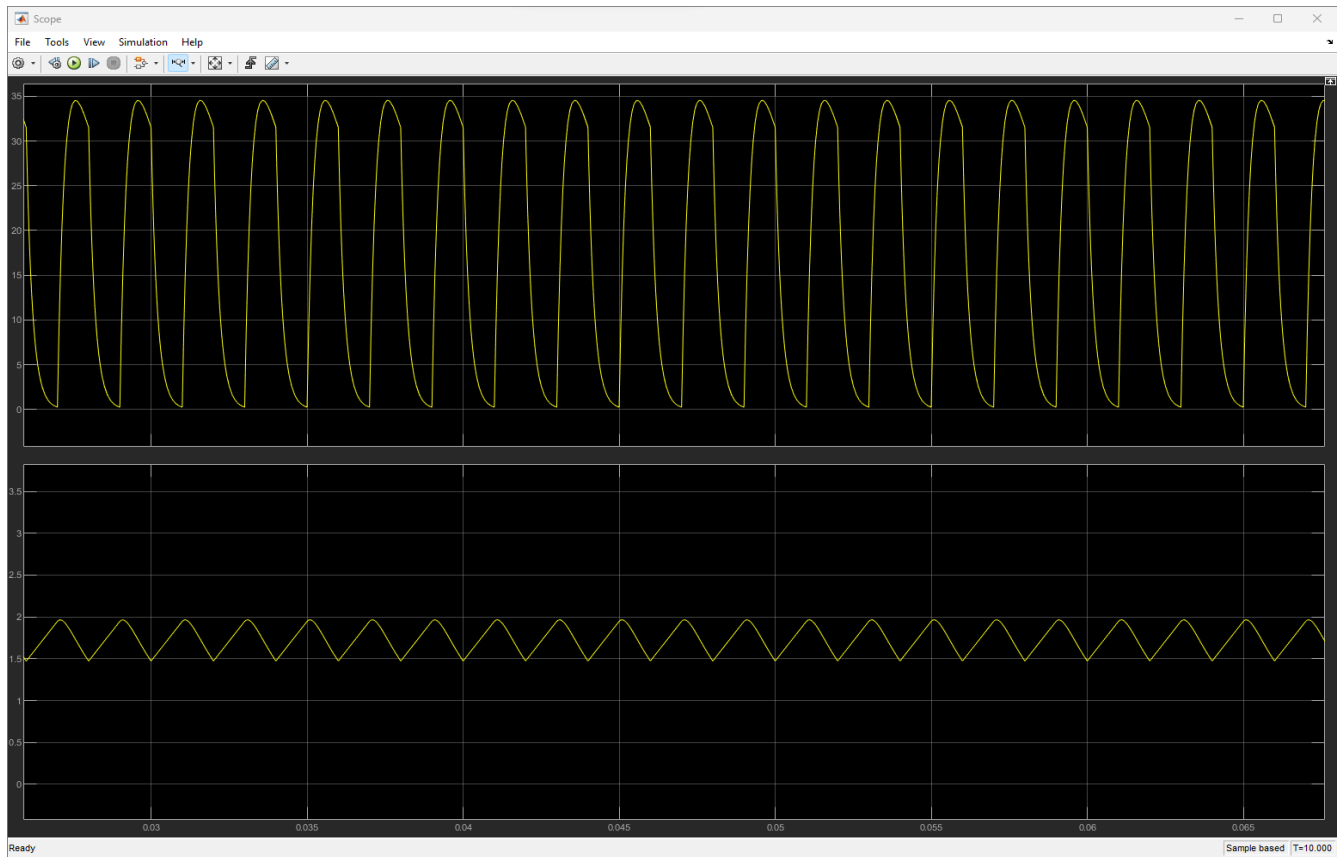
$D=0.8, V_{in}=30\text{v}, V_o=24\text{v}, R=10\Omega, r=0.005, L=25\mu\text{H}, C=80\mu\text{F}$.



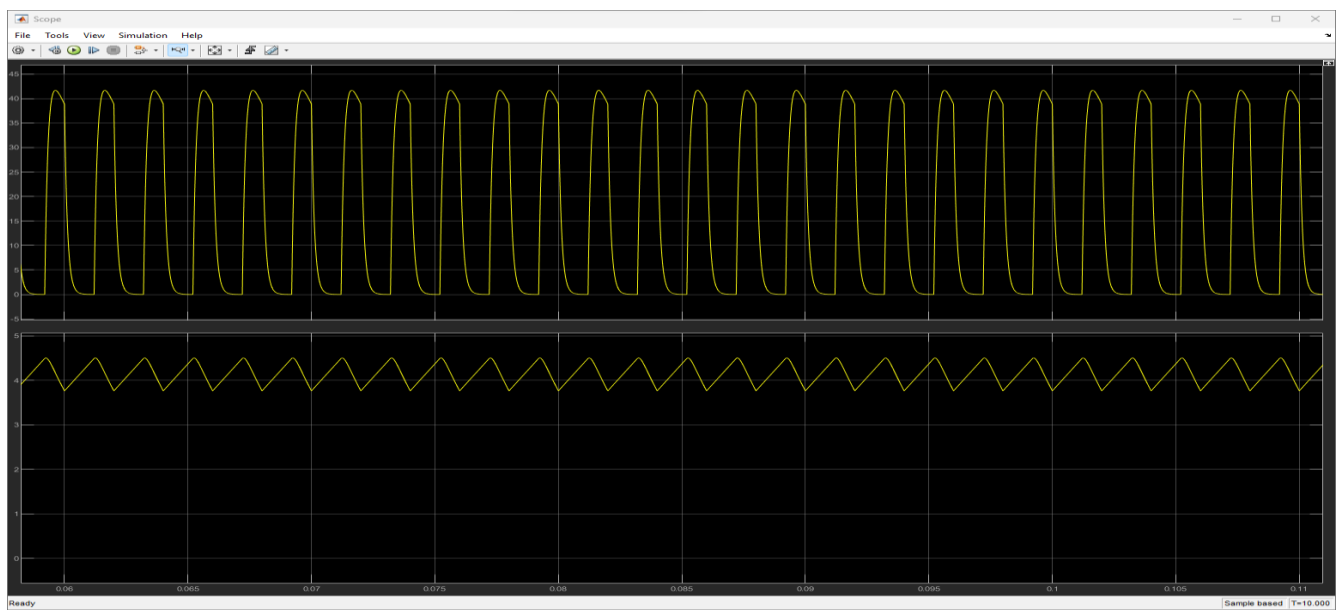
2. Single switch boost converter



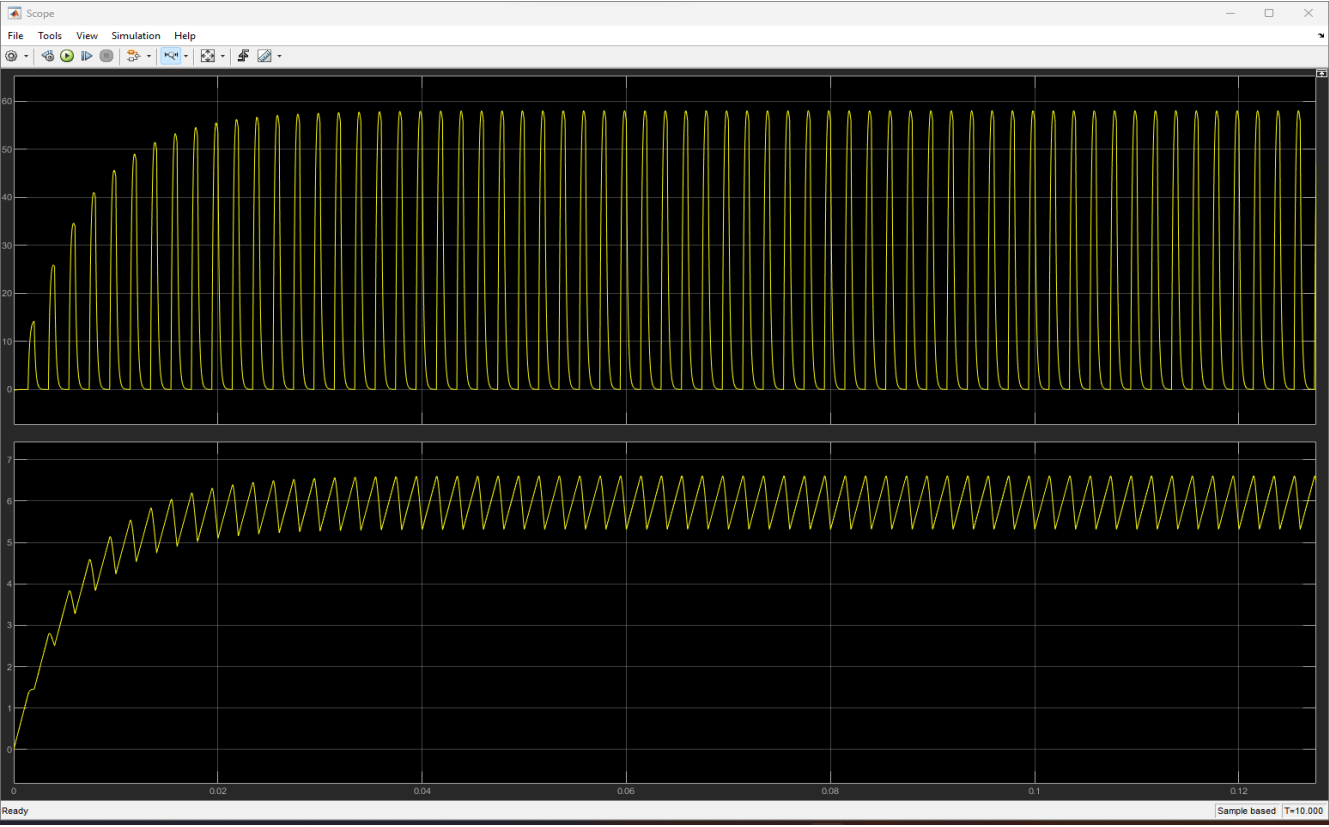
$D=0.5, V_{in}=15\text{v}, V_o=30\text{v}, R=20\Omega, r=0.05, L=25\mu\text{H}, C=10\mu\text{F}$



$D=0.6, V_{in}=15\text{v}, V_o=37.5\text{v}, R=20\Omega, r=0.05, L=19.2\mu\text{H}, C=12\mu\text{F}$



$D=0.7, V_{in}=15v, V_o=50v, R=20\Omega, r=0.05, L=15.76\mu H, C=14\mu F$



$D=0.8, V_{in}=15v, V_o=75v, R=20\Omega, r=0.05, L=8\mu H, C=16\mu F$

