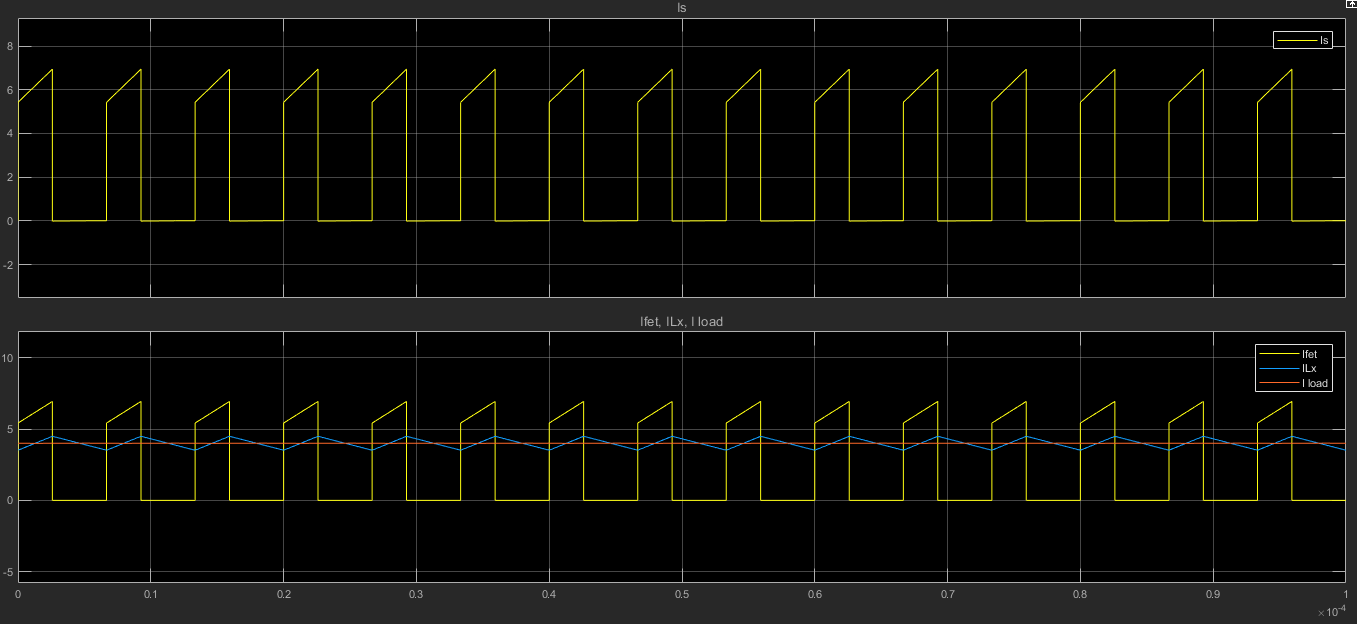
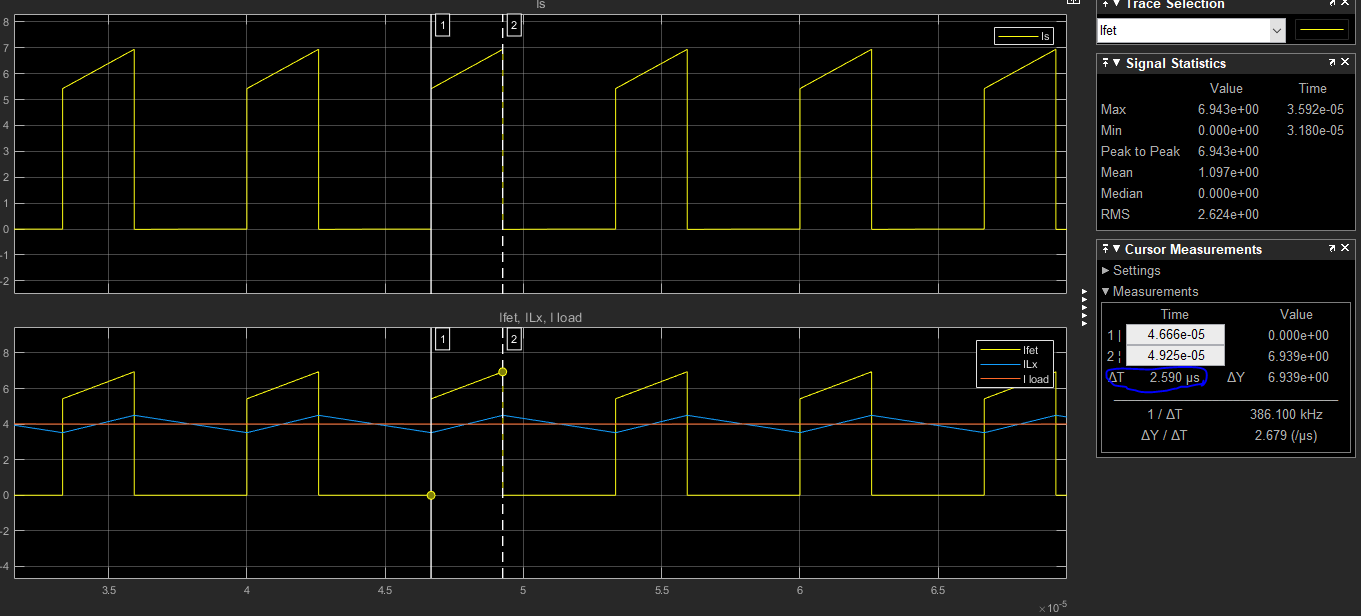
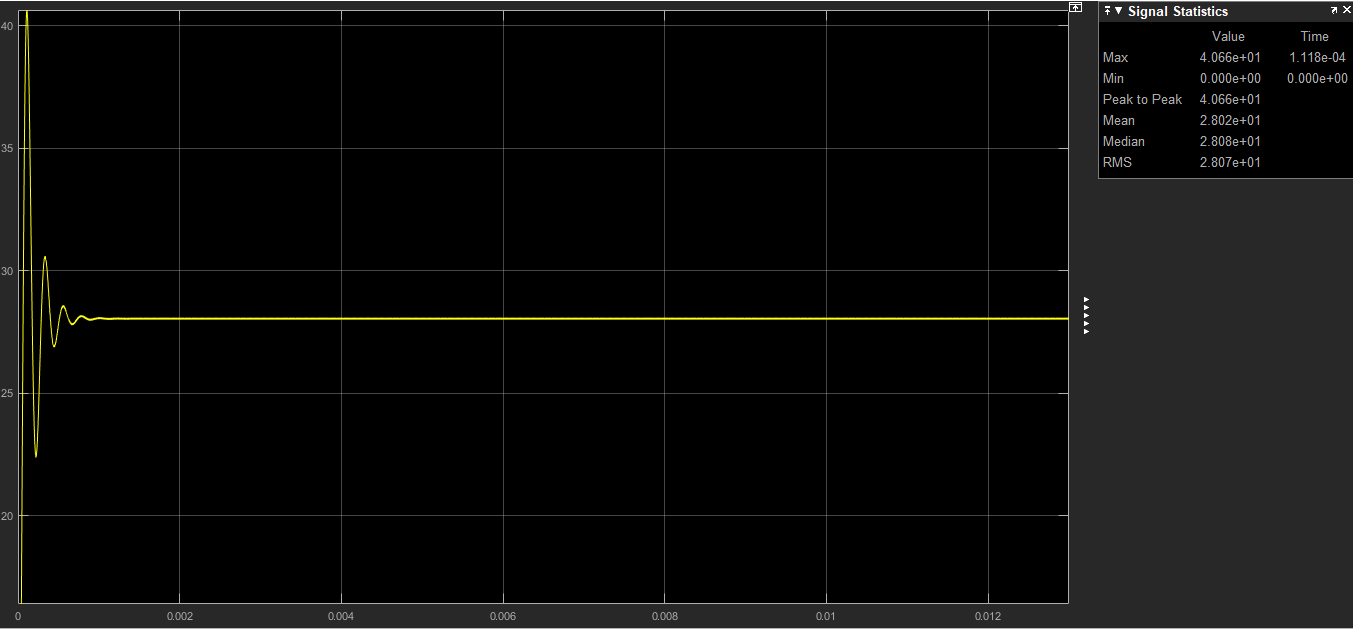
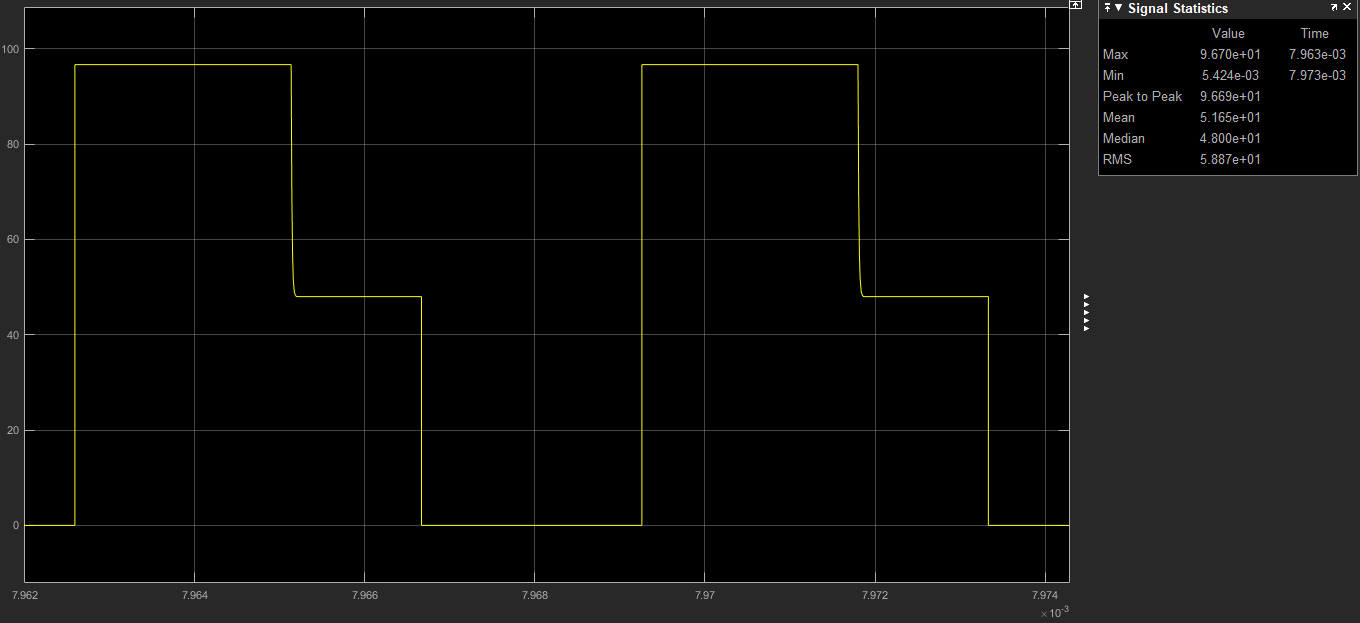
**CURRENTS** :   




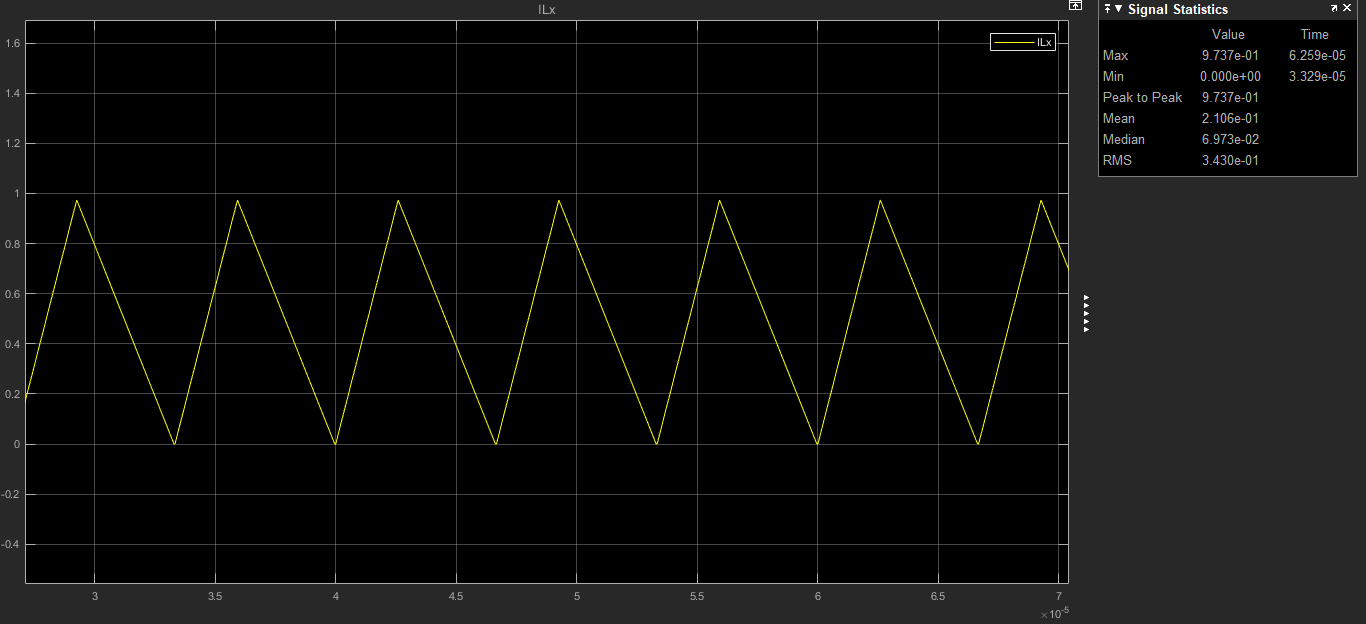
VOLTAGES



MOSFET DS VOLTAGE



Min output current to operate in CCM, when Lo = 120u is 0.49A



At boundary Io =

output inductor current rises during on period. The min outpur inductor current ripple hence output current is occured at min ton.

= \*ton

VL = Vinmax - Vo - Vdiode

where ton(min) = \*\* = 2,25 us.

where

fs = 150kHz

Vinmax = 52.8 V

Vdiode = 0.7V

Vo = 28V

substuting ton value in above equation :

= [ Vinmax - Vo - Vdiode ]\*

= 0.98 A

where Lo = 120uH

Io = = = 0.49 A which is minimum load current with 120uH output inductor to ensure CCM mode of operation.