RF EXPOSURE

SAR evaluation for handset.

Per the formula (60 / fGHz) mW, d < 2.5 cm, the threshold is 60 / 2.441 = 24.6 (mW)

Per the formula P = A + G + 10 log (1/x) ,

P : Peak eirp (dBm)
A : Conducted average power (dBm)
G : Antenna gain (dBi)
x : Duty cycle = TXon / (TXon + TXoff),

So, conducted average power A = P - G - 10 log (1/x) ,
For the EUT : P = conducted peak power16.3dBm + antenna gain 0dBi = 16.3dBm,
G = 0dBi , x = 0.0008 .

So, A = 16.3 - 0 - 10 log (1/ 0.0008) = -14.6 (dBm) = 0.035 (mW)
So, A = 0.035 mW < 24.6 mW

Because the antenna gain (typical) is 0 dBi, so the average eirp is the same value as A = 0.035 mW < 24.6 mW.

No SAR test is required for this EUT.