

MPE Calculation

FCC ID: Y56QLKMBT04

Remark: Average \leq Peak, which means that calculating the power density applying Peak power is worst case. The worst case operation mode generating the highest power in each frequency range is taken for calculation.

Frequency range: **2402-2480** MHz

Typical use distance: $d \geq 20$ cm

Power density limit for mobile devices at 2.4 GHz: $S \leq 1$ mW/cm²

Maximum measured conducted power (Peak): $P_{\text{conducted}} = -4.34$ dBm = 0.37 mW

Antenna Gain: $G = 0$ dBi = 1 on the linear scale

Calculation: $P_{\text{radiated}} = P_{\text{conducted}} + G_{\text{linear}} = -4.34$ dBm + 0 dBi = -4.34 dBm = 0.37 mW

Power density $S = (P_{\text{radiated}}) / (4\pi \times d^2) = 0.37 / 5026 = 0.0001$ mW/cm² $< 1 \Rightarrow$ below limit