

MPE Calculation

FCC ID: Y2EAPM-J4035-WS

EUT Description: IP Camera

Typical use distance: $d \geq 20$ cm

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

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: 2412-2462MHz, 2422-2452

Maximum measured conducted power (Peak): $P_{\text{conducted}} = 21.94$ dBm = 157 mW

Antenna Gain: $G = 0$ dBi

Calculation: $P_{\text{radiated}} = P_{\text{conducted}} + G_{\text{linear}} = 21.94$ dBm + 0 dBi = 21.94 dBm = 157 mW

Power density $S = (P_{\text{radiated}}) / (4\pi \times d^2) = 157 / 5026 = 0.0312$ mW/cm² is below the limit, so pass.