MPE Calculation (for Mobile Device)

FCC ID: I88IPC2605N

Typical use distance: d ≥ 20 cm
Power density limit for mobile devices at 2.4 and 5 GHz: S ≤ 1 mW/cm^2
Remark: Average ≤ 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; 2422-2452MHz;
Maximum measured conducted power (Average): $P_{conducted}$ = 10.68 dBm
Antenna Gain: G = 3 dBi
Calculation: $P_{radiated} = P_{conducted} + G_{linear}$ = 10.68 dBm + 3 dBi = 13.68 dBm = 23.33 mW
Power density S = $(P_{radiated}) / (4\pi \times d^2)$ = 23.33 / 5026 = 0.0047 mW/cm^2 which is far below the limit, so pass.