

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:
Passed

Test standard : FCC KDB Publication 447498

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna information provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the exposure at a distance or 20 cm away from the product and compare it to the limit of MPE.

Frequency Band: 2400-2483.5 MHz

$$S = \frac{P_G}{4\pi R^2}$$

Max Power to Antenna (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Result
3.82	4.77	2.999	0.002	1	Pass