

MPE Evaluation Information

The device has a standalone transmission.

The minimum separation distance between a transmitter and nearby persons is more than 20 cm under normal operating conditions, compliance with MPE limits may be determined at such distance from the transmitter

FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

The maximum tune-up limit power is 245 mW @ 2.462 GHz,
Antenna Gain + 0 dBi

EIRP = the maximum output power + antenna gain

The power density at 20cm from the antenna:

$$\begin{aligned} &= \text{EIRP} / 4\pi R^2 \\ &= 0.0487 \text{ mW} / \text{cm}^2 \end{aligned}$$