

Maximum Permissible Exposure(MPE) evaluation

February 5, 2026

- Band = ESMR
- Transmitting frequency = 862 MHz ~ 869 MHz
- Min. test separation distance = 5300 mm
- Max. Antenna Gain = 17 dBi
- Max. power with turn-up tolerance = 42.00 dBm = 15849.0 mW

$$S = P G / (4 R^2 \pi) , \text{ mW/cm}^2$$
$$= 0.225030 \text{ mW/cm}^2$$

S = Maximum power density

P = Maximum power with turn-up tolerance

G = Numeric power gain of the antenna

R = Distance from transmitting antenna

Conclusion: The exposure condition of this device is compliant with FCC rules.

The limit for maximum permissible exposure = 0.574666 mW/cm² (f/1500)

Maximum Permissible Exposure(MPE) evaluation

February 5, 2026

- Band = Cellular
- Transmitting frequency = 869 MHz ~ 894 MHz
- Min. test separation distance = 5300 mm
- Max. Antenna Gain = 17 dBi
- Max. power with turn-up tolerance = 42.00 dBm = 15849.0 mW

$$S = P G / (4 R^2 \pi) , \text{ mW/cm}^2$$

$$= 0.225030 \text{ mW/cm}^2$$

S = Maximum power density

P = Maximum power with turn-up tolerance

G = Numeric power gain of the antenna

R = Distance from transmitting antenna

Conclusion: The exposure condition of this device is compliant with FCC rules.

The limit for maximum permissible exposure = 0.579333 mW/cm² (f/1500)