

Exposure limit according to §15.247(i) and §1.1307

The device is classified as mobile.

Limit for power density for general population/uncontrolled exposure is $f/1500 \text{ mW/cm}^2$ for 300 – 1500 MHz frequency range:

$$P = 906/1500 = 0.604 \text{ mW/cm}^2$$

The power density $P \text{ (mW/cm}^2\text{)} = P_T / 4\pi r^2$

P_T is the transmitted power, which is equal to the peak transmitter output power 21.6 dBm plus maximum antenna gain 5 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 21.6 \text{ dBm} + 5 \text{ dBi} = 26.6 \text{ dBm} = 457.1 \text{ mW}.$$

The power density at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$457.1 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.09 \text{ mW/cm}^2 < 0.604 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.