

**Exposure limit according to §15.247(i)**

The device is classified as mobile.

Limit for power density for general population/uncontrolled exposure is  $f/1500$  mW/cm<sup>2</sup> for 300 – 1500 MHz frequency range:

$$P = 902/1500 = 0.6 \text{ mW/cm}^2$$

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

$P_T$  is the transmitted power, which is equal to the peak transmitter output power in FHSS mode 21.68 dBm plus maximum antenna gain 0 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 21.68 \text{ dBm} + 0 \text{ dBi} = 21.68 \text{ dBm} = 147.2 \text{ mW.}$$

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

$$147.2 \text{ mW} / 4\pi (20 \text{ cm})^2 \approx 0.03 \text{ mW/cm}^2 < 0.6 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.