## Exposure limit according to §15.247(i) and RSS-102

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:

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

The power density P (mW/cm<sup>2</sup>) = P<sub>T</sub> /  $4\pi$  r<sup>2</sup>

 $P_{\mathsf{T}}$  is the transmitted power, which is equal to the peak transmitter output power in FHSS mode 24.08 dBm plus maximum antenna gain 3 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 24.08 \text{ dBm} + 3 \text{ dBi} = 27.08 \text{ dBm} = 510.5 \text{ mW}.$$

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

$$510.5 \text{ mW} / 4\pi (20 \text{ cm})^2 \approx 0.32 \text{ mW/cm}^2 < 0.6 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.