## Exposure limit according to §15.247(i)

The Power-G Modem LP Module is classified as a mobile device.

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

$$P = 912.75/1500 = 0.61 \text{ mW/cm}^2$$

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

P<sub>T</sub> is the transmitted power, which is equal to the peak transmitter output power 13.45 dBm plus maximum antenna gain 2 dBi, the maximum equivalent isotropically radiated power EIRP is

$$P_T = 13.45 \text{ dBm} + 2 \text{ dBi} = 15.45 \text{ dBm} = 35.1 \text{ mW}.$$

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

Compliance with FCC limit: 35.1 mW /  $4\pi$  (20 cm)  $^2$  = 0.006 mW/cm $^2$  << 0.61 mW/cm $^2$ 

General public cannot be exposed to dangerous RF level.