

US Tech Project Number:
Client:
Report Issue Date:
Model:
FCC ID:
IC:

11-0204
Level Vision
11-04-2011
MUSN-FE6-T800
Z7V-LVE100
9991A-LVE100

Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Highest Gain Antenna= 1.7 dBi

MPE for WiFi

Peak Power (Watts) = 0.005

Gain of Transmit Antenna = 1.7 dBi = 1.479, numeric

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = \text{EIRP} / 4A = 0.005 (1.479) / 4 * \pi * 0.2 * 0.2 \\ &= 0.0074 / 0.503 = 0.0147 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.00147 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1.0 mW/cm²

MPE for Bluetooth

Peak Power (Watts) = 0.009

Gain of Transmit Antenna = 1.7 dBi = 1.479, numeric

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = \text{EIRP} / 4A = 0.009(1.479) / 4 * \pi * 0.2 * 0.2 \\ &= 0.0133 / 0.503 = 0.0264 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.00264 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1.0 mW/cm²