

US Tech Project Number:	11-0204
Client:	Level Vision
Report Issue Date:	11-04-2011
Model:	MUSN-FE6-T800
FCC ID:	Z7V-LVE100
IC:	<u>9991A-LVE100</u>

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

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

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

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

which is << less than 1.0 mW/cm²