FCC ID: XZ4-1000-0700

RF EXPOSURE INFORMATION

Transmitters operating in the 450 - 470 MHz band is required to be operated in a manner that ensures that the public is not exposed to RF energy levels in accordance with CFR 47, Section 1.1307(b)(1).

The MPE calculation shown below is for the antenna with a minimum separation distance of 20cm.

In accordance with Section 1.1310, the Maximum Permissible Exposure (MPE) limit for the General Population/Uncontrolled Exposure of 1.0 has been applied, i.e 0.3mW/cm².

Friis transmission formula: Pd = $(P*G) / (4*\pi*r^2)$

where: $Pd = power density (mW/cm^2)$

P = power input to the antenna (mW)

G = antenna gain (numeric)

r = distance to the center of radiation of the antenna (cm)

Prediction frequency = 450 - 470 MHzMaximum peak output power with unity antenna gain = 19.21 dBm = 83.4 mWPrediction distance = 20 cm

The power density calculated = 0.017 mW/cm²

Results: Calculations show that the device with described antennas complied with Maximum Permissible Exposure (MPE) limit for the General

Population/Uncontrolled Exposure with a separation distance of 20cm.