

RF Safety Requirements to 2.1091 for Mobile Transmitters

FCC ID: MTF071473
EUT TX Characteristics
Antenna type: External whip type folding antenna
Measured EIRP (dBm): 19.01 or 0.80 Watts
At frequency (MHz): 1851.25

MPE Limit (mW/cm²): 5

Given the following equation
Equation 1:

$$P_d = \frac{P_t G_t}{4\pi r^2}$$

Solve for r:
Equation 2:

$$r = \sqrt{\frac{P_t G_t}{4\pi P_d}}$$

Using Equation 1, the power density at 20 cm is: 1.58 mW/cm²
Using Equation 2, the MPE limit is met at: 11.3 cm