

RF Safety Requirements to 2.1091 for Mobile Transmitters

FCC ID: MTF050398
EUT TX Characteristics
Antenna type: External whip type folding antenna
Measured EIRP (dBm): 26.6 or 0.46 Watts
At frequency (MHz): 1880

MPE Limit (mW/cm²): 1

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: 0.91 mW/cm²
Using Equation 2, the MPE limit is met at: 19.1 cm

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FCC ID: MTF050398
EUT TX Characteristics
Antenna type: External whip type folding antenna
Measured EIRP (dBm): 24.2 or 0.26 Watts
At frequency (MHz): 836.52

MPE Limit (mW/cm²): 0.55768

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: 0.52 mW/cm²
Using Equation 2, the MPE limit is met at: 19.4 cm