

**RF SAFETY MPE calculation for this Wall mounted Mobile device (at 20 cm)**

According to **OET BULLETIN 56 Fourth Edition/August 1999,**

**Equation for Predicting RF Fields:**

$$S = \frac{PG}{4 R^2} \quad S = \frac{31.33 \times 1.41}{4 (20)^2} \quad = \mathbf{0.00878839 \text{ mW/cm}^2}$$

Where: S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)