## Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

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

Maximum peak output power at the antenna terminal:

Maximum peak output power at the antenna terminal:

Antenna gain(typical):

Maximum antenna gain:

Prediction distance:

Prediction frequency:

900 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.6 (mW/cm^2)

Power density at prediction frequency: 0.007902 (mW/cm^2)

Therefore device complies with FCC RF radiation exposure limits for general population in mobile exposure category (distance > 20cm)