

FCC ID: 2AAMXLS1401

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: 5.40 (dBm)

Maximum peak output power at the antenna terminal: 3.467368505 (mW)

Antenna gain(typical): 2.5 (dBi)

Maximum antenna gain: 1.77827941 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 902.7 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0.6018 (mW/cm<sup>2</sup>)

Power density at prediction frequency: 0.001227 (mW/cm<sup>2</sup>)

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