



## Prediction of Maximum Permissible Exposure

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 = directional power gain of the antenna relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Max. peak output power at antenna terminal(dBm):	<b>43.00</b>
Max. peak output power at antenna terminal(mW):	<b>19952.623</b>
Antenna gain for prediction(dBi):	<b>17</b>
Maximum antenna gain(numeric):	<b>50.11872336</b>
Duty Cycle(%):	<b>100</b>
Prediction distance(cm):	<b>400</b>
Prediction frequency(MHz):	<b>2155</b>
Limit for uncontrolled exposure(mw/cm <sup>2</sup> ):	<b>1.000</b>

**S(mw/cm<sup>2</sup>) = : 0.497**