



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

Valid for frequencies from 100 to 300.000 MHz

Maximum peak output power at antenna input terminal:	<u>19.30</u> (dBm)
Maximum peak output power at antenna input terminal:	<u>0.085</u> (W)
Antenna gain(typical):	<u>1.80</u> (dBi)
Maximum antenna gain:	<u>1.514</u> (numeric)
Prediction distance:	<u>20</u> (cm)
Prediction frequency:	<u>1925</u> (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>10.00</u> (W/m ²)
Power density at prediction frequency:	0.2563 (W/m ²)
Maximum allowable antenna gain:	17.7 (dBi)
Margin of Compliance:	15.9 (dB)