

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:	<u>0.55</u> (dBm)	
Maximum peak output power at the antenna terminal:	<u>1.135010816</u> (mW)	P
Antenna gain(typical):	<u>-2</u> (dBi)	
Maximum antenna gain:	<u>0.630957344</u> (numeric)	G
Prediction distance:	<u>20</u> (cm)	R
Prediction frequency:	<u>2402</u> (MHz)	
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u> (mW/cm ²)	
Power density at prediction frequency:	0.000142 (mW/cm ²)	
Maximum allowable antenna gain:	36.46269855 (dBi)	