



### 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 antenna input terminal:	<u>16.90</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>48.97788194</u>	(mW)
Antenna gain(typical):	<u>19</u>	(dBi)
Maximum antenna gain:	<u>79.43282347</u>	(numeric)
Prediction distance:	<u>20</u>	(cm)
Prediction frequency:	<u>5790</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>1</u>	(mW/cm^2)
Power density at prediction frequency:	0.773981	(mW/cm^2)
	7.739807	(W/m^2)
Maximum allowable antenna gain:	20.11269855	(dBi)
Margin of Compliance:	1.112698554	