



### 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>46,00</u>	(dBm)
Maximum peak output power at antenna input terminal:	<u>39810,71706</u>	(mW)
Antenna gain(maximum):	<u>6,1</u>	(dBi)
Maximum antenna gain:	<u>4,073802778</u>	(numeric)
Time Averaging:	<u>100</u>	(%)
Prediction distance:	<u>150</u>	(cm)
Prediction frequency:	<u>858,5</u>	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0,572</u>	(mW/cm <sup>2</sup> )
Power density at prediction frequency:	<u>0,573598</u>	(mW/cm <sup>2</sup> )
Margin of compliance:	<u>0,0</u>	(dB)
This equates to:	<u>5,735979861</u>	(W/m <sup>2</sup> )