

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 device output terminal:	31.61 dBm
Cable and Jumper loss:	0.0 dB
Maximum peak output power at antenna input terminal:	31.61 dBm
	1448.771854 mW
Single Antenna gain (typical):	3.9 dBi
Number of Antennae:	1
Total Antenna gain (typical):	3.9 dBi
	2.454708916 (numeric)
Prediction distance:	20 cm
Prediction frequency:	1626 MHz
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm ²
Power density at prediction frequency:	0.707506 mW/cm²
	7.075060 W/m ²
Duty cycle:	50.000000 %
Average Power density at prediction frequency:	3.537530 W/m ²
Maximum allowable antenna gain:	5.402698554 dBi
Margin of Compliance:	4.51299851 dB