

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:	12.46 dBm
Cable and Jumper loss:	0.0 dB
Maximum peak output power at antenna input terminal:	12.46 dBm
	17.61976046 mW
Single Antenna gain (typical):	3 dBi
Number of Antennae:	1
Total Antenna gain (typical):	3 dBi
	1.995262315 (numeric)
Prediction distance:	20 cm
Prediction frequency:	5240 MHz
MPE limit for uncontrolled exposure at prediction frequency:	1 mW/cm ²
Power density at prediction frequency:	0.006994 mW/cm²
	0.069941 W/m ²
Tx On time:	1.000000 ms
Tx period time:	1.000000 ms
Average Factor:	100.000000 %
Average Power density at prediction frequency:	0.069941 W/m ²
Maximum allowable antenna gain:	24.55269855 dBi
Margin of Compliance:	21.55269855 dB