Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

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 centre of radiation of the antenna

Max input to antenna terminal
Antenna gain
Prediction distance
Prediction Freq
MPE limit for uncontrolled exposure at prediction frequency

Value	Units	numeric
19	dBm	79.43
18	dBi	63.10
20	cm	20.00
2.405	GHz	2.405E+09
1	mW/cm2	

Power density at prediction frequency:

Maximum allowable antenna gain

0.997 (mW/cm2)

18.01 dBi