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

Fundamental transmit (prediction) frequency:	2402	MHz
Maximum measured conducted peak output power:	4.64	dBm
Cable and/or jumper loss:	0.0	dB
Maximum peak power at antenna input terminal:	4.64	dBm
Tx On time:	1.000	ms
Tx period time:	1.000	ms
Average factor:	100	%
Maximum calculated average power at antenna input terminal:	2.911	mW
Single Antenna gain (typical):	2	dBi
Number of antennae:	1	
Total system gain (typical):	2.0	dBi

MPE limit for uncontrolled exposure at prediction frequency:	1	mW/cm^2
	10	W/m^2
Minimum calculated prediction distance for compliance:	1	cm
Typical (declared) distance:	20	cm
Average power density at prediction frequency:	**0.000918**	mW/cm^2
	0.00918	W/m^2
Margin of Compliance:	**30.37270**	**dB**
Maximum allowable antenna gain:	32.37270	dBi