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:	14.99	(dBm)
Cable and Jumper loss	0.0	(dB)
Maximum peak output power at antenna input terminal:	14.99	(dBm)
Maximum peak output power at antenna input terminal:	31.55004623	(mW)
Single Antenna gain(typical):	12	(dBi) See note below
Number of Antennae	2	
Total Antenna gain(typical):	15.01029996	(dBi)
Maximum antenna gain:	31.69786385	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5570	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)

Power density at prediction frequency:	0.198957	(mW/cm^2)
	1.989574	(W/m^2)
Tx On time:	1.000000	
Tx period time:	1.000000	
Average Factor:	100.000000	
Average Power density at prediction frequency:	1.989574	(W/m^2)
Maximum allowable antenna gain:	22.02269855	(dBi)
Margin of Compliance:	7.012398597	dB

Note: Antenna gain: 12 dBi + 10 × log10 (2) dB = 15 dBi