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:	20.90	(dBm)
Cable and Jumper loss	0.0	(dB)
Maximum peak output power at antenna input terminal:	20.90	(dBm)
Maximum peak output power at antenna input terminal:	123.0268771	(mW)
Single Antenna gain(typical):	15	(dBi) See note below
Number of Antennae	2	
Total Antenna gain(typical):	18.01029996	(dBi)
Maximum antenna gain:	63.2455532	(numeric)
Prediction distance:	25	(cm)
Prediction frequency:	5785	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.990695	(mW/cm^2)
	9.906953	(W/m^2)
Tx On time:	1.000000	
Tx period time:	1.000000	
Average Factor:	100.000000	
Average Power density at prediction frequency:	9.906953	(W/m^2)
Maximum allowable antenna gain:	18.05089881	(dBi)
Margin of Compliance:	0.040598857	dB

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