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 radia
           R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	43.98	(dBm)	43.979
Maximum peak output power at antenna input terminal:	25000	(mW)	
Antenna gain(typical):	17.5	(dBi)	
Maximum antenna gain:	56.23413252	(numeric)	
Time Averaging:	100	(%)	
Prediction distance:	170	(cm)	
Prediction frequency:	9500	(MHz)	
MPE limit for uncontrolled exposure at prediction frequency:	5	(mW/cm^2)	

Power density at prediction frequency: 3.871081 (mW/cm^2)

Margin of compliance: -1.1 (dB)
This equates to   38.71081384 W/m^2   PASS
For information   This equates to   120.8055331 V/m

Limits as described in 1.1310 for general

ator