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 the antenna terminal:	17.38 (dBm)
Maximum peak output power at the antenna terminal:	54.70159629 (mW)
Antenna gain(typical): _	<u>4.55</u> (dBi)
Maximum antenna gain: _	2.851018268 (numeric)
Prediction distance:	<u> 20 </u> (cm)
Prediction frequency:	<u>902.7</u> (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	<u>0.607</u> (mW/cm^2)
Power density at prediction frequency:	0.031026 (mW/cm^2)
Maximum allowable antenna gain:	17.46458546 (dBi)