Prediction of MPE limit at a given distance

Equation from page 19 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 antenna input terminal:	43.00	(dBm)
Maximum peak output power at antenna input terminal:	19952.6231	(mW)
Antenna gain(maximum):	12	(dBi)
Maximum antenna gain:	15.8489319	(numeric)
Time Averaging:	100	(%)
Prediction distance:	205	(cm)
Prediction frequency:	938	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.625	(mW/cm^2)
Power density at prediction frequency:	0.59880086	(mW/cm^2)
Margin of compliance:	-0.03	(dB)
This equates to:	5.98800858	(W/m^2)