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
Valid for frequencies from 30 to 100.000 MHz

Maximum peak output power at antenna input terminal:	19,90	(dBm)
Maximum peak output power at antenna input terminal:	97,7237221	(mW)
Antenna gain(typical):	1,00	(dBi)
Maximum antenna gain:	1,258925412	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	1925	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1,00	(mW/cm^2)
Power density at prediction frequency:	0,024475	(mW/cm^2)
Maximum allowable antenna gain:	17,11	(dBi)
Margin of Compliance:	16,11	(dB)