Prediction of MPE limit at a given distance

Nemko

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 antenna input terminal:	30.00	(dBm)
Maximum peak output power at antenna input terminal:	1000	(mW)
Antenna gain(typical):	1	(dBi)
Maximum antenna gain:	1.258925412	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5800	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.250455	(mW/cm^2)
Maximum allowable antenna gain:	7.012698554	(dBi)

Margin of Compliance at 20cm = 6.0dB