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 device output terminal: _______ 17.14 (dBm)

Cable and Jumper loss _____ 0.0 (dB)

Maximum peak output power at antenna input terminal: ______17.14 (dBm)

Maximum peak output power at antenna input terminal: 51.7606832 (mW)

Single Antenna gain(typical): 4 (dBi)

Number of Antennae 2

Total Antenna gain(typical): 7.010299957 (dBi)

Maximum antenna gain: 5.023772863 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 5745 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: ______1 (mW/cm^2)

Power density at prediction frequency: 0.051732 (mW/cm^2)

0.517321 (W/m^2)

Tx On time: 100.000000
Tx period time: 100.000000

Average Factor: 100.000000

Average Power density at prediction frequency: 0.517321 (W/m^2)

Maximum allowable antenna gain: 19.87269855 (dBi)

Margin of Compliance: 12.8623986 dB