DOWN LINK 880-894 MHZ INDOOR ANTENNA 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 antenna input terminal:	33.00 (dBm)
Maximum peak output power at antenna input terminal:	1995.262315 (mW)
Antenna gain(typical):	<u>2</u> (dBi)
Maximum antenna gain:	1.584893192 (numeric)
Prediction distance:	<u> </u>
Prediction frequency:	<u> </u>
MPE limit for uncontrolled exposure at prediction frequency:	0.6 (mW/cm^2)
Power density at prediction frequency:	0.629115 (mW/cm^2)
Maximum allowable antenna gain:	1.794211057 (dBi)
Margin of Compliance:	-0.205788943

Note: Cable and splitter insertion loss has not been accounted for in this calculation.