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 the antenna terminal:	20.00	(dBm)
Maximum peak output power at the antenna terminal:	100	(mW)
Antenna gain(typical):	6	(dBi)
Maximum antenna gain:	3.981071706	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5150	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)

Worst case antenna gain
used at 5GHz channel
Worst case power used from
FCC ID: RTP55010016-5

Power density at prediction frequency: 0.079201 (mW/cm^2)

Maximum allowable antenna gain: 17.01269855 (dBi)