§ 1.1310 Radiofrequency radiation exposure limits

FCC ID:

Conducted Power (dBm):	50.11		102565	milliWatts	or	102.57 Watts
Antenna Gain (dBi):	12.038					
EIRP (dBm):	62.148	or	1640000	milliWatts	or	1640.00 Watts
At frequency (MHz):	1960					

General MPE Limit (mW/cm^2):	1.000
Occupational MPE Limit (mW/cm^2):	5.000

Given the following equation
Equation 1:

$$P_d = \frac{P_t G_t}{4\pi r^2}$$

Solve for r:
Equation 2:

$$r = \sqrt{\frac{P_t G_t}{4\pi P_d}}$$

Using Equation 1, the power density at 20 cm is: 326.27 mW/cm^2

General Results:
Using Equation 2, the MPE limit is met at: 361.3 cm or 3.61 meters

Occupational Results:
Using Equation 2, the MPE limit is met at: 161.6 cm or 1.61 meters