

MPE Exposure Formula:

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

S = power density

P = transmitter conducted power in (mW)

G = antenna numeric gain

d = distance to radiation center (m) or $(.02^2) = .020$ m

Enter Data in Linear Units					
Gain =	8	Numeric	9.2	dB	
Power =	1995	mW	33	dBm	
Frequency =	216	MHz	0.200	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	16595.87	mW		16595.87	mW
R (cm) =	81.2606085		S (20cm) =	3.302	

Microwave Data Systems will be using different antennas so only the highest gain

Note: antenna to be used with transmitter is stated. For worse case scenario this does not include any cable loss.