

**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

**902.6 MHz**

Enter Data in Linear Units			
Gain =	7.1	Numeric	9 dBi
Power =	398	mW	26 dBm
Frequency =	902.6	MHz	0.602 mW/cm <sup>2</sup>
Cable Loss =	0	dB	
EIRP =	2826.56	mW	3162.28 mW
R (cm) =	19.3340219	S (20cm) =	0.629

**915.4 MHz**

Enter Data in Linear Units			
Gain =	7.1	Numeric	9 dBi
Power =	398	mW	26 dBm
Frequency =	915.4	MHz	0.610 mW/cm <sup>2</sup>
Cable Loss =	0	dB	
EIRP =	2826.56	mW	3162.28 mW
R (cm) =	19.1983727	S (20cm) =	0.629

**927.6 MHz**

Enter Data in Linear Units			
Gain =	7.1	Numeric	9 dBi
Power =	398	mW	26 dBm
Frequency =	927.6	MHz	0.618 mW/cm <sup>2</sup>
Cable Loss =	0	dB	
EIRP =	2826.56	mW	3162.28 mW
R (cm) =	19.0717042	S (20cm) =	0.629