

**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

**5500 MHz (13dBi antenna)**

Enter Data in Linear Units					
Gain =	20.0	Numeric	EUT ant.:	13	dBi
Power =	74	mW	EUT power:	18.7	dBm
Frequency =	5500	MHz	MPE limit:	1.000	mW/cm <sup>2</sup>
Cable Loss =	0	dB			
EIRP =	1479.11	mW		1479.11	mW
R (cm) =	10.8491339		S (20cm) =	0.294	

**5600 MHz (13dBi antenna)**

Enter Data in Linear Units					
Gain =	20.0	Numeric	EUT ant.:	13	dBi
Power =	93	mW	EUT power:	19.7	dBm
Frequency =	5600	MHz	MPE limit:	1.000	mW/cm <sup>2</sup>
Cable Loss =	0	dB			
EIRP =	1862.09	mW		1862.09	mW
R (cm) =	12.1729284		S (20cm) =	0.370	

**5700 MHz (13dBi antenna)**

Enter Data in Linear Units					
Gain =	20.0	Numeric	EUT ant.:	13	dBi
Power =	93	mW	EUT power:	19.7	dBm
Frequency =	5700	MHz	MPE limit:	1.000	mW/cm <sup>2</sup>
Cable Loss =	0	dB			
EIRP =	1862.09	mW		1862.09	mW
R (cm) =	12.1729284		S (20cm) =	0.370	

### 5500 MHz (5dBi antenna)

Enter Data in Linear Units					
Gain =	3.1	Numeric	EUT ant.:	4.9	dBi
Power =	27	mW	EUT power:	14.3	dBm
Frequency =	5500	MHz	MPE limit:	1.000	mW/cm <sup>2</sup>
Cable Loss =	0	dB			
EIRP =	83.18	mW		83.18	mW
R (cm) =	2.5727351		S (20cm) =	0.017	

### 5600 MHz (5dBi antenna)

Enter Data in Linear Units					
Gain =	3.1	Numeric	EUT ant.:	4.9	dBi
Power =	27	mW	EUT power:	14.3	dBm
Frequency =	5600	MHz	MPE limit:	1.000	mW/cm <sup>2</sup>
Cable Loss =	0	dB			
EIRP =	83.18	mW		83.18	mW
R (cm) =	2.5727351		S (20cm) =	0.017	

### 5700 MHz (5dBi antenna)

Enter Data in Linear Units					
Gain =	3.1	Numeric	EUT ant.:	4.9	dBi
Power =	28	mW	EUT power:	14.4	dBm
Frequency =	5700	MHz	MPE limit:	1.000	mW/cm <sup>2</sup>
Cable Loss =	0	dB			
EIRP =	85.11	mW		85.11	mW
R (cm) =	2.6025259		S (20cm) =	0.017	