

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

2412 MHz (802.11b)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	214	mW	EUT power:	23.3	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	1348.96	mW		1348.96	mW
R (cm) =	10.3608424		S (20cm) =	0.268	

2437 MHz (802.11b)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	209	mW	EUT power:	23.2	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	1318.26	mW		1318.26	mW
R (cm) =	10.2422428		S (20cm) =	0.262	

2462 MHz (802.11b)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	219	mW	EUT power:	23.4	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	1380.38	mW		1380.38	mW
R (cm) =	10.4808153		S (20cm) =	0.275	

2412 MHz (802.11g)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	21	mW	EUT power:	13.2	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	131.83	mW		131.83	mW
R (cm) =	3.2388816		S (20cm) =	0.026	

2437 MHz (802.11g)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	324	mW	EUT power:	25.1	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	2041.74	mW		2041.74	mW
R (cm) =	12.7466209		S (20cm) =	0.406	

2462 MHz (802.11g)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	20	mW	EUT power:	13	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	125.89	mW		125.89	mW
R (cm) =	3.1651556		S (20cm) =	0.025	

5745 MHz (802.11a)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	81	mW	EUT power:	19.08	dBm
Frequency =	5745	MHz	MPE limit:	1	mW/cm^2
Cable Loss =		dB			
EIRP =	510.50	mW		510.50	mW
R (cm) =	6.3737506		S (20cm) =	0.102	

5785 MHz (802.11a)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	84	mW	EUT power:	19.25	dBm
Frequency =	5785	MHz	MPE limit:	1	mW/cm^2
Cable Loss =		dB			
EIRP =	530.88	mW		530.88	mW
R (cm) =	6.4997263		S (20cm) =	0.106	

5825 MHz (802.11a)

Enter Data in Linear Units					
Gain =	6.3	Numeric	EUT ant.:	8	dBi
Power =	67	mW	EUT power:	18.28	dBm
Frequency =	5825	MHz	MPE limit:	1	mW/cm^2
Cable Loss =		dB			
EIRP =	424.62	mW		424.62	mW
R (cm) =	5.8129297		S (20cm) =	0.084	