

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 (.02²) = .020 m

2412 MHz 802.11b

Enter Data in Linear Units					
Gain =	2.5	Numeric	EUT ant.:	3.9	dBi
Power =	143	mW	EUT power:	21.55	dBm
Frequency =	2412	MHz	MPE limit:	1.000	mW/cm ²
Cable Loss =		dB			
EIRP =	350.75	mW		350.75	mW
R (cm) =	5.2831759		S (20cm) =	0.069780	

2437 MHz 802.11b

Enter Data in Linear Units					
Gain =	2.5	Numeric	EUT ant.:	3.9	dBi
Power =	149	mW	EUT power:	21.73	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	365.59	mW		365.59	mW
R (cm) =	5.3938028		S (20cm) =	0.072733	

2462 MHz 802.11b

Enter Data in Linear Units					
Gain =	2.5	Numeric	EUT ant.:	3.9	dBi
Power =	153	mW	EUT power:	21.85	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	375.84	mW		375.84	mW
R (cm) =	5.4688381		S (20cm) =	0.074770	

2412 MHz 802.11g

Enter Data in Linear Units					
Gain =	2.5	Numeric	EUT ant.:	3.9	dBi
Power =	154	mW	EUT power:	21.87	dBm
Frequency =	2412	MHz	MPE limit:	1.000	mW/cm ²
Cable Loss =		dB			
EIRP =	377.57	mW		377.57	mW
R (cm) =	5.4814451		S (20cm) =	0.075116	

2437 MHz 802.11g

Enter Data in Linear Units					
Gain =	2.5	Numeric	EUT ant.:	3.9	dBi
Power =	171	mW	EUT power:	22.33	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	419.76	mW		419.76	mW
R (cm) =	5.7795639		S (20cm) =	0.083508	

2462 MHz 802.11g

Enter Data in Linear Units					
Gain =	2.5	Numeric	EUT ant.:	3.9	dBi
Power =	121	mW	EUT power:	20.83	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	297.17	mW		297.17	mW
R (cm) =	4.8628970		S (20cm) =	0.059119	