

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 =	1.3	Numeric	EUT ant.:	1	dBi
Power =	89	mW	EUT power:	19.5	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	112.20	mW		112.20	mW
R (cm) =	2.9880996		S (20cm) =	0.022	

2437 MHz (802.11b)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	355	mW	EUT power:	25.5	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	446.68	mW		446.68	mW
R (cm) =	5.9620425		S (20cm) =	0.089	

2462 MHz (802.11b)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	95	mW	EUT power:	19.8	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	120.23	mW		120.23	mW
R (cm) =	3.0931079		S (20cm) =	0.024	

2412 MHz (802.11g)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	12	mW	EUT power:	10.9	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	15.49	mW		15.49	mW
R (cm) =	1.1101843		S (20cm) =	0.003	

2437 MHz (802.11g)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	324	mW	EUT power:	25.1	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	407.38	mW		407.38	mW
R (cm) =	5.6937064		S (20cm) =	0.081	

2462 MHz (802.11g)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1	dBi
Power =	12	mW	EUT power:	10.9	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	15.49	mW		15.49	mW
R (cm) =	1.1101843		S (20cm) =	0.003	