

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

802.11b (2412 MHz)

Enter Data in Linear Units			
Gain =	1.58	Numeric	2 dBi
Power =	100	mW	20 dBm
Frequency =	2412	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	158.49	mW	158.49 mW
R (cm) =	3.5513630		S (20cm) = 0.032

802.11b (2437 MHz)

Enter Data in Linear Units			
Gain =	1.58	Numeric	2 dBi
Power =	389	mW	25.9 dBm
Frequency =	2437	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	616.60	mW	616.60 mW
R (cm) =	7.0047892		S (20cm) = 0.123

802.11b (2462 MHz)

Enter Data in Linear Units			
Gain =	1.58	Numeric	2 dBi
Power =	100	mW	20 dBm
Frequency =	2462	MHz	1.000 mW/cm ²
Cable Loss =	0	dB	
EIRP =	158.49	mW	158.49 mW
R (cm) =	3.5513630		S (20cm) = 0.032

802.11g (2412 MHz)

Enter Data in Linear Units					
Gain =	1.58	Numeric	2	dB	
Power =	398	mW	26	dBm	
Frequency =	2412	MHz	1.000	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	630.96	mW		630.96	mW
R (cm) =	7.0859008		S (20cm) =	0.126	

802.11g (2437 MHz)

Enter Data in Linear Units					
Gain =	1.58	Numeric	2	dB	
Power =	355	mW	25.5	dBm	
Frequency =	2437	MHz	1.000	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	562.34	mW		562.34	mW
R (cm) =	6.6895217		S (20cm) =	0.112	

802.11g (2462 MHz)

Enter Data in Linear Units					
Gain =	1.58	Numeric	2	dB	
Power =	398	mW	26	dBm	
Frequency =	2462	MHz	1.000	mW/cm ²	
Cable Loss =	0	dB			
EIRP =	630.96	mW		630.96	mW
R (cm) =	7.0859008		S (20cm) =	0.126	