

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 $(.02^2) = .020$ cm

Example

Enter Data in Linear Units					
Gain =	3	Numeric	4.77	dB	i
Power =	417	mW	26.2	dB	m
EIRP =	1250.26	mW		1250.26	mW
R (cm) =	9.9731502	S (20cm) =	0.249		

802.11B (2412 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric	3	dB	i
Power =	398	mW	26	dB	m
EIRP =	794.33	mW		794.33	mW
R (cm) =	7.9493636	S (20cm) =	0.158		

802.11B (2436 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric	3	dB	i
Power =	398	mW	26	dB	m
EIRP =	794.33	mW		794.33	mW
R (cm) =	7.9493636	S (20cm) =	0.158		

802.11B (2462 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric	3	dB	i
Power =	398	mW	26	dB	m
EIRP =	794.33	mW		794.33	mW
R (cm) =	7.9493636	S (20cm) =	0.158		

802.11G (2412 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric	3	dBi	
Power =	389	mW	25.9	dBm	
EIRP =	776.25	mW		776.25	mW
R (cm) =	7.8583680		S (20cm) =	0.154	

802.11G (2436 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric	3	dBi	
Power =	417	mW	26.2	dBm	
EIRP =	831.76	mW		831.76	mW
R (cm) =	8.1345281		S (20cm) =	0.165	

802.11G (2462 MHz)

Enter Data in Linear Units					
Gain =	2	Numeric	3	dBi	
Power =	407	mW	26.1	dBm	
EIRP =	812.83	mW		812.83	mW
R (cm) =	8.0414129		S (20cm) =	0.162	