

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 $(.02^2) = .002$ m

2472 MHz 802.11b

Enter Data in Linear Units					
Gain =	2.5	Numeric	EUT ant.:	3.9	dBi
Power =	59	mW	EUT power:	17.69	dBm
Frequency =	2472	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	144.21	mW		144.21	mW
R (cm) =	3.3876230		S (20cm) =	0.028690	

2472 MHz 802.11g

Enter Data in Linear Units					
Gain =	2.5	Numeric	EUT ant.:	3.9	dBi
Power =	136	mW	EUT power:	21.32	dBm
Frequency =	2472	MHz	MPE limit:	1	mW/cm ²
Cable Loss =		dB			
EIRP =	332.66	mW		332.66	mW
R (cm) =	5.1451148		S (20cm) =	0.066181	