

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.:	1.2	dBi
Power =	58	mW	EUT power:	17.6	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	75.86	mW		75.86	mW
R (cm) =	2.4569429		S (20cm) =	0.015	

2437 MHz (802.11b)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1.2	dBi
Power =	74	mW	EUT power:	18.7	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	97.72	mW		97.72	mW
R (cm) =	2.7886568		S (20cm) =	0.019	

2462 MHz (802.11b)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1.2	dBi
Power =	55	mW	EUT power:	17.4	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	72.44	mW		72.44	mW
R (cm) =	2.4010161		S (20cm) =	0.014	

2412 MHz (802.11g)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1.2	dBi
Power =	55	mW	EUT power:	17.4	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	72.44	mW		72.44	mW
R (cm) =	2.4010161		S (20cm) =	0.014	

2437 MHz (802.11g)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1.2	dBi
Power =	71	mW	EUT power:	18.5	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	93.33	mW		93.33	mW
R (cm) =	2.7251792		S (20cm) =	0.019	

2462 MHz (802.11g)

Enter Data in Linear Units					
Gain =	1.3	Numeric	EUT ant.:	1.2	dBi
Power =	40	mW	EUT power:	16	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	52.48	mW		52.48	mW
R (cm) =	2.0435961		S (20cm) =	0.010	

2412 MHz (802.11n, 20 MHz)

Enter Data in Linear Units					
Gain =	2.6	Numeric	EUT ant.:	4.2	dBi
Power =	69	mW	EUT power:	18.4	dBm
Frequency =	2412	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	181.97	mW		181.97	mW
R (cm) =	3.8053540		S (20cm) =	0.036	

2437 MHz (802.11n, 20 MHz)

Enter Data in Linear Units					
Gain =	2.6	Numeric	EUT ant.:	4.2	dBi
Power =	129	mW	EUT power:	21.1	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	338.84	mW		338.84	mW
R (cm) =	5.1927219		S (20cm) =	0.067	

2462 MHz (802.11n, 20 MHz)

Enter Data in Linear Units					
Gain =	2.6	Numeric	EUT ant.:	4.2	dBi
Power =	62	mW	EUT power:	17.9	dBm
Frequency =	2462	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	162.18	mW		162.18	mW
R (cm) =	3.5924859		S (20cm) =	0.032	

2422 MHz (802.11n, 40 MHz)

Enter Data in Linear Units					
Gain =	2.6	Numeric	EUT ant.:	4.2	dBi
Power =	58	mW	EUT power:	17.6	dBm
Frequency =	2422	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	151.36	mW		151.36	mW
R (cm) =	3.4705241		S (20cm) =	0.030	

2437 MHz (802.11n, 40 MHz)

Enter Data in Linear Units					
Gain =	2.6	Numeric	EUT ant.:	4.2	dBi
Power =	59	mW	EUT power:	17.7	dBm
Frequency =	2437	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	154.88	mW		154.88	mW
R (cm) =	3.5107109		S (20cm) =	0.031	

2452 MHz (802.11n, 40 MHz)

Enter Data in Linear Units					
Gain =	2.6	Numeric	EUT ant.:	4.2	dBi
Power =	41	mW	EUT power:	16.1	dBm
Frequency =	2452	MHz	MPE limit:	1	mW/cm ²
Cable Loss =	0	dB			
EIRP =	107.15	mW		107.15	mW
R (cm) =	2.9200821		S (20cm) =	0.021	