

Client:	Broadcom	Job Number:	J83573
Model:	BRC92070MD_REF12	T-Log Number:	T83604
Contact:	Juan Martinez	Account Manager:	Sheareen Washington
Standard:	FCC 15.247, RSS-210, LP0002	Class:	B

MPE Calculation

Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density (W/m²), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Use: General

Antenna: 3.9 dBi PIFA

Bluetooth EDR mode (Highest power mode)

Freq. MHz	EUT Power		Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm ²	MPE Limit at 20 cm mW/cm ²
2402	2.9	1.9	0	3.9	2.9	4.79	0.001	1.000
2441	3.3	2.1	0	3.9	3.3	5.25	0.001	1.000
2480	3.2	2.1	0	3.9	3.2	5.13	0.001	1.000

For the cases where S > the MPE Limit

Freq. MHz	S @ 20 cm mW/cm ²	MPE Limit mW/cm ²	Distance where S <= MPE Limit
2402	0.001	1.000	0.6cm
2441	0.001	1.000	0.6cm
2480	0.001	1.000	0.6cm