

FCC RF Exposure Compliance for Non Simultaneous Operations

Operating Modes:

Mode 1: LoRa

Mode 2: BLE

Power Density is calculated from Maximum Conducted Power and Antenna Gain at prediction distance

Maximum of Conducted and Radiated Output Power is used in the calculation.

Negative values for antenna gain have been replaced by 0 dBi.

None of the transmitters are operating Simultaneously.

RF Function	LoRa	BLE
Frequency (MHz)	900	2400
Conducted Output Power (dBm)	18.73	2.67
Tune Up Tolerance (dB)	0.00	0.00
Output Power (W)	0.075	0.002
Antenna Gain (dBi)	0.00	2.10
Antenna Gain (Numeric)	1.00	1.62
Prediction Distance (cm)	20	20
Time Averaged Duty Cycle (%)	100	100
Calculated Power Density (W/m ²)	0.149	0.006
Power Density Limit (W/m ²)	6.00	10.00
Margin of Compliance (dB)	16.1	32.2

Power Density Limits from FCC Part 1.1310(e)(1) Table 1.