



FCC ID: 2BPFB-T101

## RF Exposure evaluation

According to 447498 and part 2.1093

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where } f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Here,

### For BT

Frequency (MHz)	Max power (dBm)	Max power (mW)	Min. distance (mm)	Calculation Value	Threshold Value
2402	1.36	1.37	5	0.42	3.0

### For 2.4G WIFI

Frequency (MHz)	Max power (dBm)	Max power (mW)	Min. distance (mm)	Calculation Value	Threshold Value
2412	9.36	8.61	5	2.67	3.0

### For 5G WIFI

Frequency (MHz)	Max power (dBm)	Max power (mW)	Min. distance (mm)	Calculation Value	Threshold Value
5180	7.29	5.36	5	2.44	3.0

### For 5.8G WIFI

Frequency (MHz)	Max power (dBm)	Max power (mW)	Min. distance (mm)	Calculation Value	Threshold Value
5825	7.09	5.12	5	2.47	3.0

Operate simultaneously

BLE:  $(1.37\text{mW} / 5\text{mm}) * [\sqrt{2.402(\text{GHz})} / 7.5] = 0.088 \text{ w/kg}$

2.4GWIFI:  $(8.61\text{mW} / 5\text{mm}) * [\sqrt{2.412(\text{GHz})} / 7.5] = 0.554 \text{ w/kg}$

5.2GWIFI:  $(5.36\text{mW} / 5\text{mm}) * [\sqrt{5.180(\text{GHz})} / 7.5] = 0.740 \text{ w/kg}$

5.8GWIFI:  $(5.12\text{mW} / 5\text{mm}) * [\sqrt{5.825(\text{GHz})} / 7.5] = 0.795 \text{ w/kg}$

If BLE and 2.4G WIFI operate simultaneously, then  $0.088 + 0.554 = 0.642 < 1.6\text{w/kg}$

If BLE and 5.2G WIFI operate simultaneously, then  $0.088 + 0.740 = 0.828 < 1.6\text{w/kg}$

If BLE and 5.8G WIFI operate simultaneously, then  $0.088 + 0.795 = 0.883 < 1.6\text{w/kg}$

So SAR test is not required