

MPE ESTIMATION

FCC ID: 2BCOM-DJ-260

1. Limit for Portable Equipment Exposure

Frequency	1-g SAR
100MHz-6GHz	3.0

According to 447498 D01 General RF Exposure Guidance v06

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

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

Where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

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

2. eCFR _47 CFR Part 1 Subpart I -- Procedures Implementing the National Environmental Policy Act of 1969

1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments(EAs) must be prepared. 1.1307(b)(3) Determination of exemption.

(i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

2. Estimation Result

Worst case:

Mode	Reading result(dBμV/m)	PK Output Power (dBm)	Output Power(mW)	Test Separation Distance (mm)	Measurement Result	1-g SAR
BLE 2402MHz	98.49	3.29	2.133	5	0.6612	3.0
2.4G 2420MHz	102.97	7.77	5.984	5	1.8618	3.0
Note: PK Output Power (dBm)= Reading result(dBμV/m)-95.2 PK Output Power = Conducted Power. Conducted Power see the test report BLE: 23081406ER-61; 2.4G: 23081406ER-62.						

The SAR evaluation is not required.

Mode	Reading result(dBμV/m)	PK Output Power (dBm)	Output Power(mW)	Measurement Result(mW)	Limit (mW)
134.2kHz	84.19	-11.01	0.079	0.079	1
Note: PK Output Power (dBm)= Reading result(dBμV/m)-95.2 PK Output Power = Conducted Power. Conducted Power see the test report 134.2kHz: 23081406ER-63.					

Note: BLE, 2.4GHz and 134.2KHz antenna cannot work simultaneously.

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