

§1.1307 (B) (3) & §2.1091- MPE-BASED EXEMPTION

Applicable Standard

According to FCC §2.1093 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 General RF Exposure Guidance

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

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Appendix C for SAR test exclusion thresholds for $< 100\text{MHz}$ and < 200 mm

Result

Mode	Frequency (MHz)	Max tune-up conducted power (dBm)	Max tune-up conducted power (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BT/BLE	2402-2480	1.0	1.26	5	0.4	3.0	Yes

Note: 1. The device contains a certified Bluetooth module, FCC ID: 2AWMOFSC-BT986, the output power and antenna gain was refer to the module report.

2. $0\text{dBd} = 2.15\text{dBi}$

3. for the SRD, the field strength is $78.81\text{ dBuV/m}@3\text{m}$, which less than -16dBm . And according to KDB 447498 D01 Appendix C, the SAR test exclusion thresholds is $1019\text{ mW}(30\text{dBm})@0.05\text{MHz}$, so, the SRD power less than the thresholds.

Result: Compliant.