

Radio frequency radiation exposure evaluation: portable devices

RESULT :

Pass

Test Specification

Test item	: SleepaSloth
Identification / Type No.	: SS-001
FCC ID	: 2BF2S-SS-001
Test standard	: CFR47 FCC Part 2: Section 2.1093 FCC KDB Publication 447498 D01 General RF Exposure Guidance v06

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ 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
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

Calculate as below:

$$[(9.52\text{mW}) / (15.97\text{mm})] \cdot [\sqrt{2.4\text{GHz}}] = 0.923 \leq 3.0$$

Note 1: Please see below photos as the test separation distance.

Note 2: WIFI and BLE can't be transmitted at the same time.

Test Mode	Conducted Power (dBm)	Conducted Power (mW)	Minimum Separation Distances (mm)	Limit (mW)
BLE	6.69	4.67	5	9.7
WLAN	9.79	9.52	5	9.7

Hence the EUT is excluded from SAR evaluation if the distance between the antenna and the human body is equal or above one of the minimum distances depicted in the tables above, depending on the wireless protocol in use, in accordance with FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.



