



FCC ID: 2AOK2WB-S40

Date: January 21, 2019

Standalone SAR test exclusion considerations: **Bluetooth LE**

RF feature	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm) ^{NOTE1}	Max. power with tune-up tolerance (mW) ^{NOTE1}	Power thresholds	SAR test exclusion thresholds
Bluetooth LE	1Mbps	2480.00	5.00	1.99	-9.50	0.1122	0.04	3.00

Note1. Please refer to the operation description for Max.tune-up power.

KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm

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

$$= [(0.1122\text{mW} / 5\text{mm})] \times [\sqrt{2.48\text{GHz}}] = 0.04$$

Note. The calculation result was rounded to two decimal place for comparison.

Conclusion : SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required