

## Standalone SAR test exclusion considerations: BLE

Date: February 10, 2021

RF feature	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm) <sup>Note1</sup>	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
BLE	1Mbps	2480.00	5.0	3.500	1.50	1.4125	0.44	3.00

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

**KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances  $\leq 50$  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**

$$= [ ( 1.4125\text{mW} / 5\text{mm} ) ] \times [ \sqrt{2.48\text{GHz}} ] = 0.44$$

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**