

## Standalone SAR test exclusion considerations

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	GFSK(1Mbps)	2 402.00 ~ 2 480.00	5.0	3.65	-12.50	0.056 2	0.02	3.00
Zigbee	O-QPSK (250 kbps)	2 480.00 ~ 2 480.00	5.0	1.68	-12.50	0.056 2	0.02	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

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

#### Sample Calculation

$$= \left[ \left( 0.0562\text{mW} / 5\text{mm} \right) \right] \times \left[ \sqrt{2.48\text{GHz}} \right] = 0.02$$

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