

## 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
Zigbee	GFSK	2 440.00	5.0	1.99	-4.00	0.398 1	0.12	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

$$= \left[ \left( 0.3981\text{mW} / 5\text{mm} \right) \right] \times \left[ \sqrt{2.44\text{GHz}} \right] = 0.12$$

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