

## 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>Note1,2</sup>	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
Zigbee	O-QPSK	2 480.00	5.0	-4.99	-0.50	0.891 3	0.28	3.00

Note1. Please refet to the operation description for Max Target power.

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

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

**Sample Calculation**

$$= [ ( 0.8913 \text{mW} / 5 \text{mm} ) ] \times [ \sqrt{2.48 \text{GHz}} ] = 0.28$$

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**