

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) ^{Note1}	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
BLE	GFSK(1Mbps)	2 402.00 ~ 2 480.00	5.0	1.68	0.50	1.122 0	0.35	3.00
Zigbee	O-QPSK (250 kbps)	2 480.00 ~ 2 480.00	5.0	0.90	-8.00	0.158 5	0.05	3.00

Note1. Please refet 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

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

Sample Calculation

= $[(1.122 \text{mW} / 5 \text{mm})] X [\sqrt{2.48 \text{GHz}}] = 0.35$

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