

## 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
BT	1Mbps	2 480.00	5.0	2.80	4.50	2.818 4	0.89	3.00
BT	2/3Mbps	2 480.00	5.0	2.80	1.00	1.258 9	0.40	3.00
BLE	1Mbps	2 480.00	5.0	2.80	2.50	1.778 3	0.56	3.00
WLAN	802.11b	2 462.00	5.0	2.80	9.50	8.912 5	2.80	3.00
WLAN	802.11a	5 240.00	5.0	5.10	-1.50	0.707 9	0.32	3.00
WLAN	802.11a	5 320.00	5.0	5.10	-2.50	0.562 3	0.26	3.00
WLAN	802.11a	5 680.00	5.0	5.10	-2.50	0.562 3	0.27	3.00
WLAN	802.11a	5 825.00	5.0	5.10	-6.50	0.223 9	0.11	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

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

#### Sample Calculation

$$= [ ( 2.8184\text{mW} / 5\text{mm} ) ] \times [ \sqrt{2.48\text{GHz}} ] = 0.89$$

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