

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
BT	BDR(1 Mbps)	2 402.00	5.0	-0.76	-4.50	0.354 8	0.11	3.00
BT	BDR(1 Mbps)	2 480.00	5.0	-0.76	8.50	7.079 5	2.23	3.00
BT	EDR(2,3 Mbps)	2 402.00	5.0	-0.76	-6.50	0.223 9	0.07	3.00
BT	EDR(2,3 Mbps)	2 480.00	5.0	-0.76	6.50	4.466 8	1.41	3.00
WLAN	802.11b	2 412.00	5.0	-0.76	6.50	4.466 8	1.39	3.00
WLAN	802.11b	2 462.00	5.0	-0.76	9.50	8.912 5	2.80	3.00
WLAN	802.11g	2 462.00	5.0	-0.76	9.50	8.912 5	2.80	3.00
WLAN	802.11n(HT20)	2 462.00	5.0	-0.76	9.50	8.912 5	2.80	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 ≤ 7.5 for 10g extremity SAR

Sample Calculation

$$= [(0.3548\text{mW} / 5\text{mm})] \times [\sqrt{2.402\text{GHz}}] = 0.11$$

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