



## Standalone SAR test exclusion considerations: WLAN

Date: March 12, 2018

RF feature	Mode	Max. Transmitting Frequency(MHz)	Test separation distance (mm) <sup>Note1</sup>	Max. power with tune-up tolerance (dBm) <sup>Note2</sup>	ANT Gain (dBi)	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
WLAN	802.11b	2462.00	53.6	9.50	-1.15	8.9125	0.26	3.00
WLAN	802.11g	2462.00	53.6	10.00	-1.15	10.0000	0.29	3.00
WLAN	802.11n(HT20)	2462.00	53.6	10.00	-1.15	10.0000	0.29	3.00

Note1. The minimum separation distance between antenna and user is 53.6mm.

Exact antenna dimensions and separation distances are shown in the "Attestation letter" in the FCC filing.

Note2. Please refer to the operation description for Max.tune-up power.

**KDB 447498 D01 clause 4.3.1 Step 2-1) SAR test exclusion thresholds for 100MHz to 1500MHz at test separation distances > 50 mm**

[ Threshold at 50 mm + ( test separation distance - 50 mm ) X 10 ] mW

**Sample Calculation**

$$= [ 0.26 + ( 53.6\text{mm} - 50\text{mm} \times 10 ) ] = 36.3$$

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