

Standalone SAR test exclusion considerations: KS-W100S

FCC ID: 2AQNY-KS-W100S

Date: September 14, 2018

RF feauture	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	tune-up tolerance (dBm) <sup>Note1</sup>	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
2.4G WLAN	802.11b	2472.00	5.0	-2.09	9.50	8.9125	2.80	3.00
2.4G WLAN	802.11g	2472.00	5.0	-2.09	9.50	8.9125	2.80	3.00
2.4G WLAN	802.11n(HT20)	2472.00	5.0	-2.09	9.50	8.9125	2.80	3.00
2.4G WLAN	802.11n(HT40)	2472.00	5.0	-2.09	9.50	8.9125	2.80	3.00
2.4G Bletooth	EDR	2480.00	5.0	-2.09	6.00	3.9811	1.25	3.00

Note1. Please refer to the operation description for Max.tune-up power.

KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn 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** 

 $= [(8.9125 \text{mW} / 5 \text{mm})] \text{ X } [\sqrt{2.472 \text{GHz}}] = 2.8$ 

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