

FCC RF Exposure

EUT Description: Wireless Adapter

Model No.: PG-XB1006, CP-000344

FCC ID: 2A6M6-PG-XB1006

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 The 1 - g and 10 - g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: $[(\text{max power of channel, including tune - up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1 - g SAR and ≤ 7.5 for 10 - g extremity SAR,

Where:

$$\text{Result} = P/D \cdot \sqrt{F}$$

F= the RF channel transmit frequency in GHz

P=Maximum turn - up power in mw

D=Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

Frequency (MHz)	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit (mW/cm ²)	SAR Test Exclusion
Ant. 1: 2412	7.91	7±1	8/6.31	5	1.960	3.0	Pass
Ant. 2: 2412	7.79	7±1	8/6.31	5	1.960	3.0	Pass
MIMO: 2412	9.59	8.7±1	9.7/9.33	5	2.898	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2203241194-E**, Antenna 1:1dBi, Antenna 2:1dBi, MIMO: 4.010dBi

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 2.898 which is ≤ 3 , RF Exposure testing is not required.

Note: Exclusion Thresholds Results= $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Distance=5mm