

FCC RF Exposure

Product Name: USB WIFI ADAPTER

FCCID: 2AYQ6-N21

Model(s): N21, N36, N35, N34, N33, N32, N30, M32, M21, M33, M34, M35, M36, M37, M39, L21, L20, L23, L32, L33, L35

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:

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
2.4G WiFi Ant. 1: 2462 MHz	5.33	5 ± 1	6/3.98	5	1.249	3.0	Pass
2.4G WiFi Ant. 2: 2462 MHz	5.89	5 ± 1	6/3.98	5	1.249	3.0	Pass
MIMO	/	/	/	/	2.498	3.0	Pass
5.2G WiFi Ant. 1: 5180 MHz	4.83	4 ± 1	5/3.16	5	1.438	3.0	Pass
5.2G WiFi Ant. 2: 5200 MHz	4.96	4 ± 1	5/3.16	5	1.441	3.0	Pass
MIMO	/	/	/	/	2.879	3.0	Pass
5.8G WiFi Ant. 1: 5755 MHz	3.74	3 ± 1	4/2.51	5	1.204	3.0	Pass
5.8G WiFi Ant. 2: 5775 MHz	3.88	3 ± 1	4/2.51	5	1.206	3.0	Pass

MIMO	/	/	/	/	2.410	3.0	Pass
<p>Note:</p> <p>PK Output power= conducted power.</p> <p>Conducted power see the test report HK2306062322-1E/2E/3E, antenna gain=2.22dBi(2.4G WiFi), 2.68dBi(5G WiFi)</p> <p>The device could not transmit simultaneously in 2.4G and 5G.</p>							

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 2.879 which is ≤ 3, RF Exposure testing is not required.

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

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

Distance = 5mm