

FCC RF Exposure

EUT Description: Wireless Dual-band USB Adapter

Model No.: NCU-L1300

FCC ID: X4YLNX13AC

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

	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit	SAR Test Exclusion
2.4GWIFI	7.32	7 \pm 1	8 / 6.31	5	1.96	3.0	Pass
5.2GWIFI	6.76	6 \pm 1	7 / 5.01	5	2.28	3.0	Pass
5.8GWIFI	7.26	6.5 \pm 1	7.5 / 5.62	5	2.69	3.0	Pass

Note:
PK Output power= conducted power.
Conducted power see the test report **HK2105141499-1E/2E/3E**.
2.4G WIFI Gantenna gain=2dBi, 5G WIFI Gantenna gain=2dBi

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

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

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

Distance=5mm

Note: the device could not transmit simultaneously in 2.4G and 5G.