

FCC RF Exposure

EUT Description: Wireless network card

Model No.: CF-811AC

FCC ID: **OYR-CF-811AC**

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:

$$\left[\frac{\text{max power of channel, including tune - up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1 - g SAR and ≤ 7.5 for 10 - g extremity SAR,

Where:

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

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	2462	8.66	8 ± 1	9/7.943	5	2.493	3.0	Pass
5.2G WIFI	5180	7.30	7 ± 1	8/6.310	5	2.872	3.0	Pass
5.8G WIFI	5745	7.39	6.5 ± 1	7.5/5.623	5	2.696	3.0	Pass
	Note: PK Output power= conducted power. Conducted power see the test report HK2303020598-1E/2E/3E , antenna 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 2.872 which is ≤ 3 , RF Exposure testing is not required.

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

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

Distance=5mm

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