

RF Exposure Requirements

Product Description:USB Wireless Adapter

Model No.: CF-WU810N

FCC ID:OYR-WU810N

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

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

- Power and distance are rounded to the nearest mW and mm before calculation¹⁷

- The result is rounded to one decimal place for comparison

Calculation Result:

Tx frequency range:2412MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:9.26dBm(8.433mW)

Tune-Up output power: 9.5dBm(8.913mW)

RF channel transmit frequency:2412MHz

Result: 2.768

Limit: 3.0

Tx frequency range:2437MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:8.94dBm(7.834mW)

Tune-Up output power: 9.5dBm(8.913mW)

RF channel transmit frequency:2437MHz

Result: 2.783

Limit: 3.0

Tx frequency range:2462MHz

Min. test separation distance: 5mm

Maximum Conducted Output Power:9.01dBm(7.962mW)

Tune-Up output power: 9.5dBm(8.913mW)

RF channel transmit frequency:2462MHz

Result: 2.797

Limit: 3.0

The exclusion thresholds is $2.797 < 3$, so the transmitter complies with the RF exposure requirements and the SAR is not required.