



FCC RF Exposure

EUT Description: Internet Radio

Model No. WR-210N, MA-210K, MA-210F, WR-210F

FCC ID: 2ABD3MS-WR210F

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	SAR Test Exclusion
BLE	2440	-1.64	-1 $\pm$ 1	0/1	5	0.312	3.0	Pass
EDR	2480	-6.80	-6 $\pm$ 1	-5/0.316	5	0.100	3.0	Pass
2.4G WiFi	2412	8.81	8 $\pm$ 1	9/7.943	5	2.467	3.0	Pass

Note:

PK Output power = conducted power.

Conducted power see the test report **HK26082800902-1E/2E/3E**,

BT antenna gain = 2.81dBi, 2.4GWiFi antenna gain = 1.5dBi

BT and 2.4GWiFi Simultaneous evaluation:

$0.312/3 + 2.467/3 = 0.927 < 1$, SAR testing is not required

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 meets the requirements, SAR 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