

FCC RF Exposure

EUT Description: Wireless Display Receiver

Model No.: EZCast Mini

FCC ID: 2ADFS-EZCASTMINI

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

	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	8.51	8 ± 1	9/ 7.94	5	2.46616	3.0	Pass
5.2GWIFI	5.93	5 ± 1	6/ 3.98	5	1.8117	3.0	Pass
5.8GWIFI	5.77	5 ± 1	6/ 3.98	5	1.91289	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report HK2104020944-1E/HK2104020944-2E/HK2104020944-3E. 2.4G WIFI Gantenna gain=1.68dBi, 5G WIFI Gantenna gain=1.52dBi							

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 2.46616 which is ≤ 3 , RF Exposure 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(GHz) is the RF channel transmit frequency in GHz

Distance=5mm

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