



FCC ID: R33C4WMB
IC: 7848A-C4WMB

Statement of compliance to Maximum Permissible Exposure (MPE)

Applicant : Control4
11734 S. Election Drive Suite 200, Draper, Utah,
United States 84020

Manufacturer : Hansong (Nanjing) Technology Ltd.
8 Kangping Road, Jiangning Econ. And Tech.
Development Zone, Nanjing, 211106, China

Equipment : Wireless Music Bridge

Type/Model : C4-WMB-B

According to §2.1091, §2.1093 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The $S = PG / (4\pi R^2)$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

R is chosen to be 20cm, the gain of antenna $G = 3.00\text{dBi} = 1.995$

As we can see from the test reports 130300367SHA-001:

The maximum output power for Wi-Fi = $24.02\text{dBm} = 252.348\text{mW}$

The MPE of Wi-Fi = $PG / (4\pi R^2) = 252.348 * 1.995 / (4 * 3.14 * 20 * 20) = 0.10$

As we can see from the test reports 130300367SHA-002:

The maximum output power for Bluetooth = $3.23\text{dBm} = 2.104\text{mW}$

The MPE of Bluetooth = $PG / (4\pi R^2) = 2.104 * 1.995 / (4 * 3.14 * 20 * 20) = 0.00084\text{mW/cm}^2$

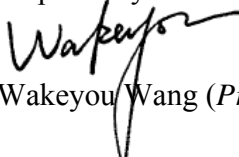
For the device can support simultaneous transmission, according to 447498 D01 General RF Exposure Guidance v05r01,

The sum of the MPE ratios = $0.10 / 1.0 + 0.00084 / 1.0 = 0.10$

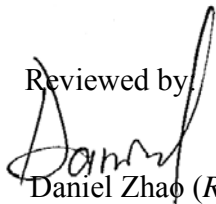
This level is below the simultaneous transmission MPE test exclusion requirements (≤ 1.0).

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Reviewed by:


Daniel Zhao (Reviewer)



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Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.