



Statement of compliance to Maximum Permissible Exposure (MPE)

Applicant : China Hualu Group Co., Ltd.
No.1 Hua Road, Qixianling Hi-Tech Zone, Dalian, China

Manufacturer : Dalian Golden Hualu Digital Technology Co., Ltd.
No.1 Hua Road, Qixianling Hi-Tech Zone, Dalian, China

Equipment : Blu-Ray Disc player

Type/Model : BD-A1040

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/cm^2

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see the maximum output power of Wi-Fi in FCC ID: 2AANL-WL91:

The maximum output power for Wi-Fi = 19.44dBm = 87.902mW

The MPE of Wi-Fi = $PG / (4\pi R^2) = 139.316 / (4 * 3.14 * 20 * 20) = 0.0277 mW/cm^2$

As we can see from the test reports 140500630SHA-001 and 140500630SHA-002:

The maximum output power for Bluetooth = 8.10dBm = 6.457mW

The MPE of Bluetooth = $PG / (4\pi R^2) = 8.128mW / (4 * 3.14 * 20 * 20) = 0.0016mW/cm^2$

For the device can support simultaneous transmission, according to 447498 D01 General RF Exposure Guidance v05r02,

The sum of the MPE ratios = $0.0277 / 1.0 + 0.0016 / 1.0 = 0.0293mW/cm^2$

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

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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.