



FCC ID: XCO-HSMD2DIA80  
IC: 7756A- HSMD2DIA80

## Statement of compliance to Maximum Permissible Exposure (MPE)

Equipment : Digital Wireless Audio Transceiver Module  
Type/Model : HS-DWAM80/D2DIA  
Applicant : Hansong(Nanjing) Technology Ltd.  
8th Kangping Road, Jiangning Economy and Technology  
Development Zone, Nanjing, China, 211100  
Definition of EUT : ☒ Mobile device  
☐ Portable device

Here assuming a worst-case prediction of power density (100% reflection), then  
 $S = 4PG / (4\pi R^2) = PG / (\pi R^2)$ .

Where S = power density in mW/cm<sup>2</sup>

P = transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report SH09100184-001:

The maximum P = 16.98dBm = 49.90mW

G = 1.00dBi = 1

Here R is chosen to be 20cm,

$$S = PG / (\pi R^2) = 49.90 * 1 / (3.14 * 20 * 20) = 0.040\text{mW/cm}^2$$

This level is below the 1 mW/cm<sup>2</sup> MPE for General Population / Uncontrolled Exposure as stated in OET BULLETIN 65 Edition 97-01.

**Conclusion: this EUT fulfills 47CFR Part 15.247(i) (2007) with the definition outlined in the User's Manual. (See appendix I)**

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## **Appendix I**

**Definition below must be outlined in the User Manual:**

1. The installed antennas must not be located in a manner that allows exposure of the general population at a distance of less than 20cm.
2. Mount the antennas in a manner that prevents any personnel from entering the area within 20cm from the central position of the antenna.