

## **RF Exposure / SAR Statement**

**No. : 33AE0103-SH-01-A**

**Applicant : Sony Corporation**  
**Type of Equipment : Bluetooth Audio System**  
**Model No. : WX-GT90BT**  
**FCC ID : AK8WXGT90BT**

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Sony Corporation declares that Model : Bluetooth Audio System complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "WX-GT90BT" has 1.88 mW of conducted Peak Output power and 0.61 mW of EIRP. This equipment is considered as a mobile device so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the "WX-GT90BT" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

**P = 1.88 mW (Maximum peak output power)**  
**G = 0.32 Numerical Antenna gain; equal -4.90 dBi**  
**r = 20.0 cm**

**For: WX-GT90BT**

$$S = 0.00012 \text{ mW/cm}^2$$

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