

## RF Exposure / SAR Statement

**No. : 30DE0120-YK-B**

**Applicant** : Sony EMCS Corporation Kisarazu TEC  
**Type of Equipment** : Wireless Stereo Headphones  
**Model No.** : MDR-RF4000  
**FCC ID** : AK8RF4000

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Sony EMCS Corporation Kisarazu TEC declares that Model : Wireless Stereo Headphones complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093. The "MDR-RF4000" has 3.8 mW of conducted Peak Output power and 2.57 mW of EIRP. This kind of equipment is below 60/frequency[MHz] W (TCB Exclusion List) 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 "MDR-RF4000" 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 = 3.80 mW (Maximum peak output power)**  
**G = 0.68 Numerical Antenna gain; equal -1.70 dBi**  
**r = 20.0 cm**

**For: MDR-RF4000**

$$S = 0.00051 \text{ mW/cm}^2$$

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