# RF Exposure / MPE Calculation

## No. : 27LE0050-HO

**Applicant : Sony Corporation**
**Type of Equipment : Car Radio with CD player built in Blue Tooth unit**
**Model No. : MEX-BT5100**
**FCC ID : AK8MEXBT5100**

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Sony Corporation declares that Model : MEX-BT5100
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(for portable)/2.1091 (for mobile).

**RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the "MEX-BT5100" 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^2 uncontrolled exposure limit. The Friis formula used was:

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

**Where**

**P = 0.82 mW (Maximum peak output power)**
**G = 0.89 Numerical Antenna gain; equal -0.50 dBi**
**r = 20.0 cm**

**For: MEX-BT5100** **S = 0.00014 mW/cm$^2$**


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