

RF Exposure / SAR Statement

No. : 32KE0130-SH-01-A

Applicant : Sony Corporation
Type of Equipment : Bluetooth Audio System
Model No. : MEX-BT4100P
FCC ID : AK8MEXBT4100

Sony Corporation declares that Model : Bluetooth Audio System complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "MEX-BT4100P" has 1.54 mW of conducted Peak Output power and 0.5 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 "MEX-BT4100P" 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/cm² uncontrolled exposure limit. The Friis formula used was:

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

Where

P = 1.54 mW (Maximum peak output power)
G = 0.32 Numerical Antenna gain; equal -4.90 dBi
r = 20.0 cm

For: MEX-BT4100P

$$S = 0.00010 \text{ mW/cm}^2$$

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