

RF Exposure / SAR Statement

No. : 31AE0257-SH-03-A

Applicant : Sharp Corporation
Type of Equipment : Wireless LAN USB Adapter
Model No. : MX-EB13
FCC ID : APYMXEB13

Sharp Corporation declares that Model : Wireless LAN USB Adapter complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "MX-EB13" has 175.79 mW of conducted Peak Output power and 197.24 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 "MX-EB13" 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 = 175.79 mW (Maximum peak output power)
G = 1.12 Numerical Antenna gain; equal 0.50 dBi
r = 20.0 cm

For: MX-EB13

$$S = 0.03924 \text{ mW/cm}^2$$

UL Japan, Inc.

Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401