

RF Exposure / MPE Calculation

No. : 28FE0222-HO

Applicant	:	Brother Industries, Ltd.
Type of Equipment	:	Multi-Function Center
Model No.	:	MFC-990CW
FCC ID	:	B3Q8CAG19
IC Number	:	1112C-8CAG19

Brother Industries, Ltd. declares that Model : MFC-990CW
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 "MFC-990CW" 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 =	65.31 mW (Maximum peak output power)
G =	4.07 Numerical Antenna gain; equal 6.10 dBi
r =	20.0 cm

For: MFC-990CW

$$S = 0.05293 \text{ mW/cm}^2$$