RF Exposure / MPE Calculation

No. : 31BE0147-HO-01

Applicant	**:**	**Sony EMCS Corporation Kisarazu TEC**
Type of Equipment	**:**	**Wireless transceiver**
Model No.	**:**	**EZW-RT50**
FCC ID	**:**	**AK8148935911**
IC Number	**:**	**409B-148935911**

Sony EMCS Corporation Kisarazu TEC declares that Model : EZW-RT50
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

The "EZW-RT50" has 34.67 mW of conducted Peak Output power and 33.11 mW of EIRP.
This kind of equipment is below 60/frequency[GHz] mW(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 "EZW-RT50" 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 =	**34.67**	**mW (Maximum peak output power)**		
G =	**0.95**	**Numerical Antenna gain; equal to**	**-0.20**	dBi
r =	**20.0**	**cm**		

For: EZW-RT50 **S = 0.00659 mW/cm^2**

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