RF Exposure Statement

No.: 23KE0035-HO-3

Applicant : SEIKO EPSON CORPORATION
Type of Equipment : Bluetooth Unit
Model No. : EU-84
FCC ID : BKMFBEU-84

RF Exposure Statement:
SEIKO EPSON CORPORATION declares that Model : EU-84 complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(2).
EU-84 has 0.93mW of conducted Peak output power and 1.49mW of EIRP.(Antenna gain : 2.044dBi)
According to RF output power of this transmitter, values for both Conducted peak output power and EIRP are below 5mW.This kind of equipment hardly ever go over SAR value limited of 1.6W/Kg for public resident which is regulated by "OET Bulletin65, Supplement C".

RF Exposure Calculations:
The following information provides the minimum separation distance for the highest gain antenna provided with the “EU-84” as calculated from FCC OET 65 Appendix B, 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 1.0m W/cm^2 uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2) \quad \text{or} \quad r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = 1.0 mW/cm^2 for 2400 MHz
P = 0.93mW(Maximum Conducted Power)
G =1.601 (Numerical Antenna gain; equal to 2.044dBi)
r = Minimum safe distance from antenna (cm)

For: EU-84 r = 0.344cm

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