

RF Exposure / SAR Statement

No. : 13218142S

Applicant : **PIONEER CORPORATION**
Type of EUT : **MULTIMEDIA NAVIGATION RECEIVER**
Model Number of EUT : **AVIC-W8600NEX**
FCC ID : **AJDK113**

PIONEER CORPORATION declares that Model : AVIC-W8600NEX complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091(for mobile). AVIC-W8600NEX is intended to be used Bluetooth and Wireless LAN simultaneously within 20 cm.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "AVIC-W8600NEX" as calculated from FCC Part 1, §1.1310, TABLE 1 (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:

$$S = ((P1 * G1) + (P2 * G2)) / (4 * \pi * r^2)$$

Where

P1 = 1.05 mW (Maximum average output power) *1)

P2 = 13.91 mW (Maximum average output power) *2)

G1 = 0.16 Numerical Antenna gain; equal to -8.00 dBi *1)

G2 = 0.50 Numerical Antenna gain; equal to -3.00 dBi *2)

r = 20.0 cm

For: AVIC-W8600NEX (Bluetooth and Wireless LAN)

$$S = 0.00142 \text{ mW/cm}^2$$

Even taking into account the tolerance, this device can be satisfied with the limits.

*1) Bluetooth value

*2) Wireless LAN (5 GHz band) value

This calculation was made to show that the EUT complies with the limit in simultaneous transmitting of Bluetooth and Wireless LAN.

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