

RF Exposure / SAR Statement

No. : 29IE0120-YK-01-A

Applicant : PIONEER CORPORATION
Type of Equipment : Multi-Media AVN Navigation Server System with BT
Model No. : AVIC-Z110BT
FCC ID : AJDK026

PIONEER CORPORATION declares that Model : Multi-Media AVN Navigation Server System with BT complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091.

The "AVIC-Z110BT" has 1.51 mW of conducted Peak Output power and 2.18 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 "AVIC-Z110BT" 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 = 1.51 mW (Maximum peak output power)
G = 1.45 Numerical Antenna gain; equal 1.60 dBi
r = 20.0 cm

For: AVIC-Z110BT

$$S = 0.00043 \text{ mW/cm}^2$$

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