

RF Exposure / MPE Calculation

No. : 11691426S-A
Applicant : PIONEER CORPORATION
Type of Equipment : MAIN UNIT
Model No. : D172G
FCC ID : AJDK102

PIONEER CORPORATION declares that Model: D172G complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091 (for mobile).

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "D172G" as calculated from (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = \frac{P \times G}{4 \times \pi \times r^2}$$

Where

$P =$ 0.75 mW (Maximum average output power)
 Time average was used for the above value in consideration of 6-minutes time-averaging
 Burst power average was used for the above value in consideration of worst condition.
 $G =$ 1.968 Numerical Antenna gain; equal to 2.94 dBi
 $r =$ 20 cm (Separation distance)

Power Density Result $S = 0.00029 \text{ mW/cm}^2$

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

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