

## RF Exposure / MPE Calculation

No. : 11085508M  
Applicant : PIONEER CORPORATION  
Type of Equipment : Car Audio with Bluetooth / WLAN  
Model No. : PVH-5248  
FCC ID : AJDK095

PIONEER CORPORATION declares that Model: PVH-5248 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 “PVH-5248“ 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/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

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

Where

$P$  = 22.44 mW (Maximum average output power)

Frame power was used for the above value in consideration of 6-minutes time-averaging  
 Burst power was used for the above value in consideration of worst condition.

$G$  = 0.527 Numerical Antenna gain; equal to -2.78dBi

$r$  = 20 cm (Separation distance)

**Power Density Result**  $S = 0.00235 \text{ mW/cm}^2$

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

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**UL Japan, Inc.**

**Kashima EMC Lab.**

1614, Mushi-hata, Katori-shi, Chiba-ken, 289-0341 Japan

Telephone : +81-478-88-6500

Faxsimile : +81-478-82-3373