

RF Exposure / SAR Statement (Reference)

No. : 10399701S-F-R1/H-R1

Applicant : **Clarion Co., Ltd.**
Type of Equipment : **Display Audio Unit, Navigation Unit**
Model No. : **PH-3805, QY-5153**
FCC ID : **AX2QY5153**

Clarion Co., Ltd. declares that Model : PH-3805, QY-5153
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091.

* The results for QY-5092 is used, since QY-5092, PH-3805 and QY-5153 have the identical RF output power.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "PH-3805, QY-5153" 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:

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

Where

P1 = 22.08 mW (Maximum average output power) *1)
P2 = 1.44 mW (Maximum average output power) *2)
G = 0.77 Numerical Antenna gain; equal to -1.11 dBi
r = 20.0 cm

For: PH-3805, QY-5153

$$S = 0.00362 \text{ mW/cm}^2$$

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

*1) Wireless LAN value

*2) Bluetooth value

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

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