RF Exposure / SAR Statement
No. : 13462774S

Applicant	**:**	**Panasonic Corporation**
Type of EUT	**:**	**Car Navigation**
Model Noumber of EUT	**:**	**AT2105**
FCC ID	**:**	**ACJ932AT2105**

Panasonic Corporation declares that Model : AT2105 complies with
FCC radiation exposure requirement specified in the FCC Rules 2.1091(for mobile).
AT2105 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 "AT2105" 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/cm^2 uncontrolled exposure limit. The Friis formula used was:

$$S = ((P1 * G1) + (P2 * G2) + (P3 * G3)) / (4 * \pi * r^2)$$

Where

P1 =	**5.26**	**mW (Maximum average output power)** *1)		
P2 =	**3.26**	**mW (Maximum average output power)** *2)		
P3 =	**23.82**	**mW (Maximum average output power)** *3)		
G1 =	**1.08**	**Numerical Antenna gain; equal to**	**0.33**	**dBi** *1)
G2 =	**1.02**	**Numerical Antenna gain; equal to**	**0.05**	**dBi** *2)
G3 =	**0.72**	**Numerical Antenna gain; equal to**	**-1.44**	**dBi** *3)
r =	**20.0**	**cm**		

For: AT2105 (Wireless LAN and Bluetooth) **S = 0.00521 mW/cm^2**

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

*1) Wireless LAN (5 GHz band) value
*2) Bluetooth value
*3) Wireless LAN (2.4 GHz band) value

This calculation was made to show that the EUT complies with the limit in simultaneous transmitting of Wireless LAN (5 GHz band), Bluetooth and Wireless LAN (2.4 GHz band)

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