RF Exposure / MPE Calculation

No.	:	11328915H
Applicant	:	FUJITSU TEN LIMITED
Type of Equipment	:	Car Navigation
Model No.	:	FT0091A *WLAN part (2.4 GHz)
FCC ID	:	BABFT0091A

FUJITSU TEN LIMITED declares that Model: FT0091A 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 "FT0091A" 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^2 uncontrolled exposure limit. The Friis formula used was:

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

Where

P = 11.72 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 = 1.445 Numerical Antenna gain; equal to 1.6dBi

r = 20 cm (Separation distance)

Power Density Result S = **0.00337 mW/cm^2**

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

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