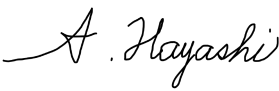


RF Exposure / MPE Calculation

Customer	AlphaTheta Corporation
Description of EUT	DJ Mixer
Model Number of EUT	DJM-A7
FCC ID	2AM73-0008
Issue Date	June 8, 2026
Approver	 Akio Hayashi Leader

AlphaTheta Corporation declares that Model: DJM-A7 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 "DJM-A7" 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.

[RFID Part]

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 0.97mW/cm² (180/f²) uncontrolled exposure limit. The Friis formula used was:

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

Where

P = 0.000000210 mW (Maximum average output power)

r = 20 cm (Separation distance)

Power Density Result $S = 0.0000000004 \text{ mW/cm}^2$

[WLAN 2.4 GHz Part]

*A 2.4 GHz evaluates simultaneous transmission with installed certified modules (FCC ID: 2BHC6RTX1290)

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 = 4.57 mW (Maximum average output power)

G = 1.914 Numerical Antenna gain; equal to 2.82 dBi

r = 20 cm (Separation distance)

Power Density Result $S = 0.00174 \text{ mW/cm}^2$

Therefore, if RFID and 2.4 GHz transmit simultaneously,

$$0.0000000004 / 0.97 + 0.00174000000 / 1 = 0.001740000041 < 1$$