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Maximum Permissible Exposure Evaluation

The RF exposure calculation for co-locating the following two (2) Two Technologies FCC Certified module/devices:

1. FCC ID: RYJJETTXL, embedded BGB203 BT radio in the Unit
2. FCC ID: RYJ-P500CF-1, WiFi radio module

Based on the FCC OET Bulletin 65, Edition 97-01, the following formula is used to calculate RF exposure at a distance of 20cm from the transmitting antenna:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density (mW/cm²)

P = Power output to the antenna

G = Antenna Numeric Gain

R = Distance from the transmitting antenna (cm)

Note: The RF transmit power and the antenna gain used are from the original test reports submitted to the FCC for certification.

FCC ID	Power Output P (mW)	Antenna Gain (dBi)	Antenna Gain G	Power Density S (mW/cm ²)	Limit (mW/cm ²)	Percentage of Limit
RYJJETTXL	2.3	0	1	0.00046	1	0.046%
RYJ-P500CF-1	51	0	1	0.01015	1	1.015%

Total RF Exposure Percentage: 1.061%

Conclusion: The total RF exposure percentage is 1.061% of the allowable limit, therefore the RF exposure calculation for the co-locating of the (2) Two Technologies FCC certified modules/devices comply with the FCC MPE requirements.