



REGULATORY COMPLIANCE REPORT

FCC CFR 47 Part 1.1310

Report No.: RDWN90-U3 Rev A (FCC MPE)

Company: Radwin Ltd.

Model Name: RADWIN JET DUO 5.x/5.x GHz

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To: FCC CFR 47 Part 1.1310

Test Report Serial No.: RDWN90-U3 Rev A (FCC MPE)

This report supersedes: NONE

Applicant: Radwin
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Issue Date: 14th September 2023

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1. MAXIMUM PERMISSIBLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

$$\text{Power Density} = P_d \text{ (mW/cm}^2\text{)} = \text{EIRP}/(4*\pi*d^2)$$

$$\text{EIRP} = P * G$$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

$$\text{Numeric Gain} = 10 \wedge (G \text{ (dBi)}/10)$$

Because the EUT belongs to the Occupational/Controlled Exposure the limit of power density is 5 mW/cm².

The calculations in the table below use the highest conducted power values together with the lowest and highest antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)
4900-5000	7.0	5.01	29.16	824.14	0.8217	5.0	8.11
4900-5000	17.0	50.12	25.76	376.70	3.7560	5.0	17.34

Note: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

Specification - Maximum Permissible Exposure Limits

The Limit is defined in Table 1 of FCC §1.1310 for Occupational/Controlled Exposure.



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