



## **REGULATORY COMPLIANCE TEST REPORT**

**FCC CFR 47 Part 1.1310**

**Report No.: RDWN77-U5 Rev A (FCC MPE)**

**Company:** Radwin

**Model Name:** RADWIN 2000 EC00, RADWIN 2000 E100

## REGULATORY COMPLIANCE TEST REPORT

**Company Name:** Radwin

**Model Name:** RADWIN 2000 EC00, RADWIN 2000 E100

**To:** FCC CFR 47 Part 1.1310

**Test Report Serial No.:** RDWN77-U5 Rev A (FCC MPE)

This report supersedes: NONE

**Applicant:** Radwin  
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**Issue Date:** 22<sup>nd</sup> December 2022

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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)

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

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

Client declared there is no simultaneous transmission in the following frequency bands therefore each band is kept separate for MPE calculation purposes.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm <sup>2</sup> ) @ 20cm	Power Density Limit (mW/cm <sup>2</sup> )	Min Calculated safe distance for Limit (cm)
5150.0 - 5250.0	24.00	251.19	27.97	626.94	31.31	1.0	111.92
5725.0 - 5850.0	24.00	251.19	29.10	812.83	40.619	1.0	127.47
5150.0 - 5250.0	32.00	1584.89	20.97	125.03	39.4212	1.0	125.573
5725.0 - 5850.0	32.00	1584.89	28.07	641.21	202.176	1.0	284.38

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.



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