

Company: Radwin Ltd.

Test of: RADWIN JET DUO

To: FCC CFR 47 Part 1.1310

Report No.: RDWN50-U6_MPE Rev A

MPE/RF EXPOSURE TEST REPORT



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FROM



Test of: RADWIN JET DUO

To: FCC CFR 47 Part 1.1310

Test Report Serial No.: RDWN50-U6_MPE Rev A

This report supersedes: NONE

Applicant: Radwin Ltd.
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Issue Date: 26th December 2017

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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

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

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

$$P = \text{Peak output power (mW)}$$

$$G = \text{Antenna numeric gain (numeric)}$$

$$d = \text{Separation distance (cm)}$$

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

The RADWIN JET DUO has two antenna chains. The peak power in the table below is calculated by assuming a worst-case scenario for the maximum gain antenna and output power. The calculated separation distance is worst case found (Operational mode 40 MHz, channel 3675.00 MHz). Calculation was performed using the 17 dBi antenna gain.

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm²

						Distance (cm)	
Freq. Band (MHz)	Antenna Gain (dBi)	Numeric Gain (numeric)	Max Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density @ 20cm	Calculated Safe Distance @ 1mW/cm ² Limit(cm)	Minimum Separation Distance (cm)
3,675.0	17	50.12	+28.79	756.83	7.55	55	55

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

§90.1217 Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency levels in excess of the Commission's guidelines. See §1.1307 (b)(1) of this chapter.

Limit = 1 mW / cm² from 1.310 Table 1

Laboratory Measurement Uncertainty for Power Measurements

Measurement uncertainty	±1.33dB
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