

Company: Radwin

Assessment of: RADWIN 2000 JET, RADWIN 5000 JET

To: FCC CFR 47 Part 15 RF Exposure requirements
Industry Canada RSS-102

Report No.: RDWN32 - MPE

MPE REPORT



MPE TEST REPORT



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to

To: FCC CFR 47 Part 15 RF Exposure requirements
Industry Canada RSS-102

Test Report Serial No.: RDWN32 - MPE

This report supersedes: NONE

Applicant: Radwin
27 Habarzel Street
Tel Aviv, 69710
Israel

Product Function: MIMO PtP/PtMP Smart Antenna
Outdoor Radio Device

Issue Date: 5th August 2015

This Test Report is Issued Under the Authority of:

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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

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

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

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

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

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm^2

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.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm^2	Calculated Power Density @ 20cm	Minimum Separation Distance (cm)
5250.0 - 5350.0	20.50	112.20	10.08	10.19	9.54	0.23	20.00
5470.0 - 5725.0	20.50	112.20	9.49	8.89	8.91	0.20	20.00

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



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Specification
Maximum Permissible Exposure Limits

FCC §1.1310 Limit = $1\text{mW} / \text{cm}^2$ from 1.310 Table 1

RSS-Gen §3.2 In addition to RSS-Gen, the requirements in Radio Standards Specification RSS-102 shall be met.

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