Company: Radwin Ltd.

Evaluation of: Outdoor Subscriber Radio Unit To: FCC CFR 47 Part 1.1310

Report No.: RDWN\_MPE Rev A Report

**MPE REPORT** 





Evaluation of: Radwin Ltd. Outdoor Subscriber Radio Unit to

To: FCC CFR 47 Part 1.1310

Test Report Serial No.: RDWN44-MPE Rev A Report

This report supersedes: NONE

Applicant: Radwin Ltd. 27 Habarzel Street Tel Aviv, 69710 Israel

Product Function: Outdoor Subscriber Radio Unit

Issue Date: 19<sup>th</sup> December 2016

## This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA Phone: +1 (925) 462-0304 Fax: +1 (925) 462-0306 www.micomlabs.com



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## 1. MAXIMUM PERMISSABLE EXPOSURE

## Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm<sup>2</sup>) = EIRP/( $4^*\pi^*d^2$ ) EIRP = P \* G P = Peak output power (mW) G = Antenna numeric gain (numeric) d = Separation distance (cm) Numeric Gain = 10 ^ (G (dBi)/10) Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm<sup>2</sup>

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 Power Density (mW/cm <sup>2</sup> ) @ 20cm	Min Calculated Safe Distance for 1mW/cm <sup>2</sup> (cm)
5725.0 - 5850.0	16.00	39.81	28.76	751.62	5.95	50.00
5150.0 - 5250.0	16.00	39.81	28.54	715.30	5.67	47.60
5250.0 - 5350.0	16.00	39.81	13.98	25.00	0.20	20.00
5470.0 - 5725.0	17.00	50.12	12.98	19.86	0.20	20.00
4945.0 - 4985.0	14.00	25.12	20.65	116.14	0.58	15.24
2400.0 - 2483.5	3.00	2.00	25.74	374.97	0.15	20.00

Assessment for simultaneous operation:

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	Minimum Separation Distance (cm)
5725.0 - 5850.0	16.00	39.81	28.76	751.62	5.95	50.00
2400.0 - 2483.5	3.00	2.00	25.74	374.97	0.15	20.00
		6.1	50.00			

**Note:** for mobile or fixed location transmitters the minimum separation distance is **50cm**, even if calculations indicate the MPE distance to be less.

## Specification Maximum Permissible Exposure Limits

FCC §1.1310 Limit = 1.00mW / cm<sup>2</sup> from 1.310 Table 1



575 Boulder Court Pleasanton, California 94566, USA Tel: +1 (925) 462 0304 Fax: +1 (925) 462 0306 www.micomlabs.com