Company: Radwin Ltd.

Test of: AP0158770

To: FCC CFR 47 Part 1.1310

Report No.: RDWN48-U4_MPE Rev B

MPE/RF EXPOSURE TEST REPORT



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To: FCC CFR 47 Part 1.1310

Test Report Serial No.: RDWN48-U4_MPE Rev B

This report supersedes: NONE

Applicant: Radwin Ltd.

27 Habarzel Street Tel Aviv 69710

Israel

Issue Date: 3rd January 2018

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



MiCOM Labs is an ISO 17025 Accredited Testing Laboratory



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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm²) = EIRP/($4*\pi*\dot{d}^2$)

EIRP = P * G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = $10 ^ (G (dBi)/10)$

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.

Maximum Permissible Exposure

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm²) @ 20cm	Power Density Limit (mW/cm²)	Min Calculated safe distance for Limit (cm)	Calculated Power Density (mW/cm²) @ Safe Distance
5725.00 – 5850.00	11.00	12.59	28.81	760.33	1.90	1.00	27.60	0.008
5725.00 – 5850.00	32.00	1584.89	28.81	760.33	239.73	1.00	309.67	1.00

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



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Specification - Maximum Permissible Exposure Limits TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposure									
0.3-3.0	614	1.63	*100	6					
3.0-30	1842/f	4.89/f	*900/f ²	6					
30-300	61.4	0.163	1.0	6					
300-1,500			f/300	6					
1,500-100,000			5	6					
(B) Limits for General Population/Uncontrolled Exposure									
0.3-1.34	614	1.63	*100	30					
1.34-30	824/f	2.19/f	*180/f ²	30					
30-300	27.5	0.073	0.2	30					
300-1,500			f/1500	30					
1,500-100,000			1.0	30					

f = frequency in MHz * = Plane-wave equivalent power density



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