

Company: Radwin

Assessment of: AP0158770

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

Report No.: RDWN39-U9 MPE DFS Bands

MPE REPORT



MPE TEST REPORT



Assessment of: Radwin AP0158770

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

Test Report Serial No.: RDWN34-U9 MPE DFS Bands

This report supersedes: NONE

Applicant: Radwin
27 Habarzel Street
Tel Aviv, 69710
Israel

Product Function: 5 GHz Wireless Module

Issue Date: 3rd December 2015

This Test Report is Issued Under the Authority of:

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Title: Radwin AP0158770
To: FCC CFR 47 Part 15 Subpart E 15.407
Serial #: RDWN34-U9 MPE
Issue Date: 2nd December 2015
Page: 3 of 4

1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = P_d (mW/cm²) = $EIRP / (4 * \pi * d^2)$

$EIRP = P * G$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

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

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

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)
5470.0 - 5725.0	11.00	12.59	18.96	78.65	8.88	0.20	20.00
5250.0 - 5350.0	11.00	12.59	18.87	77.04	8.79	0.19	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.

Specification

Maximum Permissible Exposure Limits

FCC §1.1310 Limit = 1mW / cm² 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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