



MPE/RF EXPOSURE REPORT

FCC CFR 47 Part 1.1310

REPORT No: RDWN63-U7_MPE FCC Rev A

Company: Radwin Ltd.

Model: AP0168031

MPE/RF EXPOSURE REPORT

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Model: AP0168031

To: FCC CFR 47 Part 1.1310

Test Report Serial No.: RDWN63-U7_MPE FCC Rev A

This report supersedes: NONE

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1. MAXIMUM PERMISSIBLE 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 = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

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

The EUT belongs to the General Population/Uncontrolled Exposure.

The calculations in the table below use the highest conducted power values together with the lowest effective 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 ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)	Calculated Power Density (mW/cm ²) @ Min Safe Distance
5150.0 – 5250.0	6.5	7.94	26.75	473.15	0.75	1.00	17.29	1.00
Below results were taken from report RDWN63-U3 MPE								
5470.0 - 5725.0	6.5	4.47	23.12	205.12	0.18	1.00	8.54	1.00
Below results were taken from report RDWN53-U2_MPE								
5725.00 – 5850.00	5.50	3.55	29.82	959.40	0.67	1.00	16.50	1.00
5725.00 – 5850.00	19.00	79.43	29.82	959.40	15.16	1.00	77.87	1.00

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

The Limit are defined in Table 1 of FCC §1.1310.



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