



MPE/RF EXPOSURE REPORT

Company: Mikrotiks SIA (MikroTik)

Evaluation of: RBwAPGR-5HacD2HnD-US

To: FCC CFR 47 Part 1.1310

Report No.: MIKO81 FCC MPE Rev A

MPE/RF EXPOSURE REPORT

FROM



Evaluation of: Mikrotikls SIA (MikroTik) RBwAPGR-5HacD2HnD-US

To: FCC CFR 47 Part 1.1310

Report Serial No.: MIKO81 FCC MPE Rev A

This report supersedes: NONE

Applicant: Mikrotikls SIA (MikroTik)
Brivibas gatve 214i
Riga, LV-1039
Latvia

Product Function: 802.11a/n/ac WLAN access point

Issue Date: 10th April 2019

This 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

1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = P_d (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)

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

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.

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)
5150.0 - 5250.0	2.50	1.78	23.73	236.05	0.09	1.00	6.00
2400.0 - 2483.5	2.50	1.78	22.74	188.00	0.07	1.00	6.00
5725.0 - 5850.0	2.50	1.78	22.08	161.47	0.06	1.00	5.00

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 is defined in Table 1 of FCC §1.1310.



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