

Company: Mimosa Networks
Test of: A5 Wireless Access Point
To: FCC CFR 47 Part 90 Subpart Y
Report No.: MIMO05-U9b MPE Rev A

MPE TEST REPORT



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to

To: FCC CFR 47 Part 90 Subpart Y

Test Report Serial No.: MIMO05-U9b MPE Rev A

This report supersedes: NONE

Applicant: Mimosa Networks
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Santa Clara, CA 95050
USA

Product Function: Wireless Access Point

Issue Date: 4th November 2015

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Page: 3 of 4

1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

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

$EIRP = P \cdot G$

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)
4940.0 - 4990.0	5.00	3.16	19.70	93.3	4.8	0.06	20.00
4940.0 - 4990.0	8.00	6.31	19.70	93.3	6.1	0.12	20.00

Note: for mobile or fixed location 5transmitters 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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