Company: Mimosa Networks

Test of: B11 Microwave Fixed Link

To: FCC CFR 47 Part 101

Report No.: MIMO04-U3 MPE Rev A

MPE TEST REPORT





Test of: Mimosa Networks B11 Microwave Fixed Link

to

## To: FCC CFR 47 Part 101

Test Report Serial No.: MIMO04-U3 MPE Rev A

This report supersedes: NONE

Applicant:	Mimosa Networks 469 El Camino Real, Suite 100 Santa Clara, California 95050 USA Microwave Fixed Link		
Product Function:			
Issue Date:	5 <sup>th</sup> November 2015		

## This Test Report is Issued Under the Authority of:

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## 1. MAXIMUM PERMISSABLE EXPOSURE

Maximum Permissible Exposure FCC, Part 101

Calculations for Maximum Permissible Exposure Levels Power Density = Pd (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 (dBi)/10)

The Mimosa B11 Microwave Fixed Link calculations are based on a worst case scenario. The Mimosa B11 is a professionally installed device.

Maximum Antenna Gain = 50.0 dBi (Numeric 100,000) Maximum Conducted Power Measured (40 MHz, Channel 11,225 MHz) = +27.56 dBm

The EUT belongs to the Controlled Exposure the limit of power density is 5.0 mW/cm<sup>2</sup>

		Distance (cm)					
Freq. Band (MHz)	Antenna Gain (dBi)	Effective Numeric Gain (numeric)	Max Peak Output Power (dBm)	Max Peak Output Power (mW)	Peak Output Power (mW/EIRP)	Calculated Safe Distance @ 5mW/cm <sup>2</sup> Limit(cm)	Minimum Separation Distance (cm)
11225.0	50.0	100,000	27.56	570.2	57,020,000	952.6	952.6

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

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency levels in excess of the Commission's guidelines. See §1.1310 of this chapter.

Limit = 5 mW / cm<sup>2</sup> from 1.310 Table 1, (A) Limits for Occupational/Controlled Exposure

Laboratory Measurement Uncertainty for Power MeasurementsMeasurement uncertainty±1.33dB

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