Company: Tarana Wireless

MPE Evaluation of: AA2-CN65AFP

To: FCC CFR 47 Chapter 1 Subpart §1.1310

Report No.: TARA25-MPE

MPE/RF EXPOSURE TEST REPORT

MPE/RF EXPOSURE TEST REPORT

FROM

MiCOM Labs
opening wireless markets

MPE Evaluation of: Tarana Wireless AA2-CN65AFP
to

To: FCC CFR 47 Chapter 1 Subpart §1.1310

Test Report Serial No.: TARA25 - Absolute Air 2 FCC IC 5GHz

This report supersedes: NONE

Applicant:	Tarana Wireless 2953 Bunker Hill Lane Santa Clara, California 95054 USA
Product Function:	Tarana Wireless fixed Multi-link backhaul radio product
Issue Date:	6th December 2016

This Test 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

A2LA ACCREDITED
TESTING CERT #2381.01

MiCOM Labs is an ISO 17025 Accredited Testing Laboratory

1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels
Power Density = Pd (mW/cm^2) = $EIRP/(4*\pi*d^2)$
EIRP = P * G
P = Peak output power (mW)
G = Antenna numeric gain (numeric)
d = Separation distance (cm)
Numeric Gain = 10 ^ (G (dBi)/10)

Because the EUT belongs to the Occupational/Controlled Exposure the limit of power density is 5.0 mW/cm^2

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 @ 5mW/cm²	Calculated Power Density @ 20cm (mW/cm²)	Minimum Separation Distance (cm)
5150.0 - 5250.0	14.00	25.12	29.98	995.41	19.95	4.97	20.00
5725.0 - 5850.0	14.00	25.12	29.96	990.43	19.95	4.95	20.00

Assessment for simultaneous operation:

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 5mW/cm²	Calculated Power Density @ 20cm (mW/cm²)	Minimum Separation Distance (cm)
5150.0 - 5250.0	14.00	25.12	29.98	995.41	19.95	4.97	20.00
5725.0 - 5850.0	14.00	25.12	29.96	990.43	19.95	4.95	20.00
-							
EIRP TOTAL (mW/EIRP) : 49892.0					**28.2**	**9.92**	**29.0**

Specification
Maximum Permissible Exposure Limits

FCC §1.1310 Limit = 5mW / cm^2 from 1.310 Table 1
Because the EUT belongs to the Occupational/Controlled Exposure the limit of power density is 5.0 mW/cm^2

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