



## Test Report

Prepared for: Comprod Communications Ltd.

**Model: BDA896940**

**Description: 30 dBm BDA 900 with MCU**

**Serial Number: 5F35567**

**FCC ID: WDM-896940**

**To**

**FCC Part 1.1310**

**Date of Issue: February 4, 2016**

**On the behalf of the applicant:**

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**Attention of:**

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### Test Report Revision History

| <b>Revision</b> | <b>Date</b>      | <b>Revised By</b> | <b>Reason for Revision</b> |
|-----------------|------------------|-------------------|----------------------------|
| 1.0             | February 2, 2016 | Greg Corbin       | Original Document          |
|                 |                  |                   |                            |
|                 |                  |                   |                            |
|                 |                  |                   |                            |



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The tests results contained within this test report all fall within our scope of accreditation, unless below

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



**FCC Site Reg. #349717**

**IC Site Reg. #2044A-2**

#### **Non-accredited tests contained in this report:**

**N/A**



### **EUT Description**

**Model:** BDA896940

**Description:** 30 dBm BDA 900 with MCU

**Firmware:** BDA RF GUI v1.02

**Serial Number:** 5F35567

### **Additional Information:**

The EUT is classified as a Part 90 PS **Class B** industrial signal booster

The EUT is a Bi-directional Amplifier that operates from 896 - 901 MHz (Uplink, Mobile to Base) and 935 - 940 MHz (Downlink, Base to Mobile).

System Power is 120 VAC @ 60 Hz.

### **MPE Evaluation**

This is a Fixed device used in **Uncontrolled** Exposure environment.

#### **Limits Uncontrolled Exposure**

**47 CFR 1.1310**

**Table 1, (B)**

|                  |   |
|------------------|---|
| 0.3-1.234 MHz:   | Limit [mW/cm <sup>2</sup> ] = 100                   |
| 1.34-30 MHz:     | Limit [mW/cm <sup>2</sup> ] = (180/f <sup>2</sup> ) |
| 30-300 MHz:      | Limit [mW/cm <sup>2</sup> ] = 0.2                   |
| 300-1500 MHz:    | Limit [mW/cm <sup>2</sup> ] = f/1500                |
| 1500-100,000 MHz | Limit [mW/cm <sup>2</sup> ] = 1.0                   |

### **Test Data**

The MPE calculation was performed using the manufacturers rated output power of (+31.5 dBm) with an antenna gain of 0 dBi.

|                          |       |
|--------------------------|-------|
| Test Frequency, MHz      | 896   |
| Power, Conducted, mW (P) | 1412  |
| Antenna Gain Isotropic   | 0 dBi |
| Antenna Gain Numeric (G) | 1     |
| Distance (R)             | 20 cm |

|                                      |
|--------------------------------------|
| $S = \frac{P * G}{4\pi r^2}$         |
| Power Density (S) mw/cm <sup>2</sup> |
|                                      |

|  |
|--|
| Power Density (S) = 0.281 mw/cm <sup>2</sup>         |
| Limit =(from above table) = 0.597 mw/cm <sup>2</sup> |