



## **Compliance Testing, LLC**

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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### **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:**

**Comprod Communications Ltd.  
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**Attention of:**

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Project No: p15a0020**

**Greg Corbin  
Project Test Engineer**

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All results contained herein relate only to the sample tested

**Test Report Revision History**

Revision	Date	Revised By	Reason for Revision
1.0	February 2, 2016	Greg Corbin	Original Document

### ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

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>