



## **Compliance Testing, LLC**

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

toll-free: (866) 311-3268

fax: (480) 926-3598

<http://www.ComplianceTesting.com>

[info@ComplianceTesting.com](mailto:info@ComplianceTesting.com)

### **Test Report**

**Prepared for: Comprod Communications Ltd.**

**Model: 700PS Industrial Public Safety Booster**

**Description: 30 dBm BDA 700 with MCU**

**Serial Number: 5F35565**

**FCC ID: WDM-BDA764806**

**To**

**FCC Part 1.1310**

**Date of Issue: December 14, 2015**

**On the behalf of the applicant:**

**Comprod Communications Ltd.  
88 boul, Industriel  
Boucherville, QB J4B 2X2  
Canada**

**Attention of:**

**Jawad Abulnour, Engineer  
Ph: (514) 777-2892  
Email: [jawad@comprodcom.com](mailto:jawad@comprodcom.com)**

**Prepared By  
Compliance Testing, LLC  
1724 S. Nevada Way  
Mesa, AZ 85204  
(480) 926-3100 phone / (480) 926-3598 fax  
[www.compliancetesting.com](http://www.compliancetesting.com)  
Project No: p15a0018**

**Alex Macon  
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      | December 14, 2015 | Alex Macon | 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:** 700PS Industrial Public Safety Booster

**Description:** 30 dBm BDA 700 with MCU

**Firmware:** N/A

**Software:** N/A

**Serial Number:** 5F35685

**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 794–806 MHz (Mobile to Base) and 764–776 MHz (Base to Mobile).

The following emission designators listed are representative emission designators used by transmitters whose signal is amplified by this booster.

### **EUT Operation during Tests**

The EUT was tested under normal operating conditions with the front panel attenuators set to 0 dB for all measurements.

MPE calculations were performed at the manufacturer's maximum output of +31.5 dBm using an antenna with 0 dBi gain.

## 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

Uplink Output Power set to manufacturer's (Mfr) maximum output power (+31.5 dBm) using an antenna with 0 dBi gain

### Test Data

|                          |       |
|--------------------------|-------|
| Test Frequency, MHz      | 764   |
| Power, Conducted, mW (P) | 1410  |
| Antenna Gain Isotropic   | 0dBi  |
| 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 mW (P) | Numeric Gain (G) | Distance (r <sup>2</sup> ) cm |
| 0.2805188604                         | 1410         | 1                | 20                            |

|                                   |
|-----------------------------------|
| Power Density (S) = 0.280         |
| Limit =(from above table) = 0.509 |

END OF TEST REPORT