



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: 800PS Industrial Public Safety Booster

Description: 30 dBm BDA 800 with MCU

Serial Number: 5F35566

FCC ID: WDM-BDA806870

To

FCC Part 1.1310

Date of Issue: December 4, 2015

On the behalf of the applicant:

Comprod Communications, Ltd.
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Attention of:

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Alex Macon
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	December 4, 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: 30 dBm BDA 800 with MCU

Description: 800PS Industrial Public Safety Booster

Firmware: N/A

Software: N/A

S/N: 5F35566

Additional Information:

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

The EUT is a Bi-directional Amplifier that operates from 806 – 824 MHz (Mobile to Base) and 851 – 869 MHz (Base to Mobile).

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 an **Uncontrolled** Exposure environment.

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)

0.3-1.234 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 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	807
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 ²	Power mW (P)	Numeric Gain (G)	Distance (r ²) cm
0.2805188604	1410	1	20

Power Density (S) = 0.280
Limit =(from above table) = 1.0

END OF TEST REPORT