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

Test Report

Prepared for: JDTECK Inc.

Model: JDIR-LPCA-DR27

Description: Quad Band Industrial Digital Repeater with Remote Access

Serial Number: WBTDR27S16040002

FCC ID: SQX- JDIR-LPCA27

To

FCC Part 1.1310

Date of Issue: June 17, 2016

On the behalf of the applicant:	**JDTECK, Inc.** **215 Celebration Place** **Suite 190** **Kissimmee, FL 34747**
Attention of:	**Dennison Jurawan, Sr. RF Designer / Technical Sales Manager** **Ph: (321) 939-3816** **E-Mail: sales@jdteck.com**

Prepared By
Compliance Testing, LLC
1724 S. Nevada Way
Mesa, AZ 85204
(480) 926-3100 phone / (480) 926-3598 fax
www.compliancetesting.com
Project No: p1650006

Alex Macon
Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	June 3, 2016	Alex Macon	Original Document
2.0	June 17, 2016	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: JDIR-LCPA-D27
Description: Quad Band Industrial Digital Repeater with Remote Access
Firmware: N/A
Software: N/A
Serial Number: WBTDR27S16040002
Additional Information:
The EUT is a Part 20 5 band industrial bi-directional amplifier which operates in the following frequency ranges:

Uplink	Downlink
698 - 716	728 - 746
776 - 787	746 - 757
824 - 849	869 - 894
1850 - 1915	1930 - 1995
1710 - 1780	2110 - 2180

MPE Evaluation

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

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)		
	0.3-1.234 MHz:	Limit [mW/cm²] = 100
	1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz:	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

The MPE calculation was performed using the manufacturers rated output power (+27 dBm) with an antenna gain of 0 dBi at the lowest operating frequency

Test Frequency, MHz	2120
Power, Conducted, mW (P)	660
Antenna Gain Isotropic	23 dBi
Antenna Gain Numeric (G)	200
Antenna Type	panel
Distance (R)	20 cm

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

Power Density (S) = 26.3
Limit =(from above table) = 1.0

The MPE limit is exceeded at 20cm separation therefore the separation distance required is 102.5cm

END OF TEST REPORT