



# TEST REPORT

**REPORT NUMBER: B16X50266-EMC**

**ON**

**Type of Equipment:** Tablet

**Type of Designation:** Ilium Pad L8X

**Manufacturer:** Corporativo Lanix S.A.de C.V.

**ACCORDING TO**

**Subpart B, PART 15, RADIO FREQUENCY DEVICES , July 14, 2016**

**China Telecommunication Technology Labs.**

*Month date, year*  
*Jul, 18, 2016*

*Signature*

He Guili  
Director

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of China Telecommunication Technology Labs.

**FCC Part15B**  
**Equipment: Ilium Pad L8X**

**REPORT NO.: B16X50266-EMC**

**FCC ID:** ZC4L8X  
**Report Date:** 2016-07-18

**Test Firm Name:** China Telecommunication Technology Labs  
**Registration Number:** 840587

#### Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part 15. The sample tested was found to comply with the requirements defined in the applied rules.

## CONTENTS

<b>1 GENERAL INFORMATION .....</b>	<b>4</b>
1.1 NOTES .....	4
1.2 TESTERS .....	5
1.3 TESTING LABORATORY INFORMATION .....	6
1.4 DETAILS OF APPLICANT OR MANUFACTURER .....	7
<b>2 TEST ITEM .....</b>	<b>8</b>
2.1 GENERAL INFORMATION.....	8
2.2 OUTLINE OF EUT .....	8
2.3 MODIFICATIONS INCORPORATED IN EUT.....	8
2.4 EQUIPMENT CONFIGURATION .....	8
2.5 OTHER INFORMATION .....	8
<b>3 SUMMARY OF TEST RESULTS.....</b>	<b>9</b>
<b>4 TEST RESULTS .....</b>	<b>10</b>
4.1 RADIATED EMISSION .....	10
4.2 CONDUCTED EMISSION.....	14
<b>ANNEX A EXTERNAL PHOTOS .....</b>	<b>17</b>
<b>ANNEX B INTERNAL PHOTOS .....</b>	<b>17</b>
<b>ANNEX C DEVIATIONS FROM PRESCRIBED TEST METHODS .....</b>	<b>17</b>

## 1 General Information

### 1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Part15.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

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FCC Part15B  
Equipment: Ilium Pad L8X

REPORT NO.: B16X50266-EMC

## 1.2 Testers

Name: Li Guoqing  
Position: Engineer  
Department: Department of EMC test  
Date: 2016-07-18  
Signature: 李国庆

Editor of this test report:

Name: Li Guoqing  
Position: Engineer  
Department: Department of EMC test  
Date: 2016-07-18  
Signature: 李国庆

Technical responsibility for area of testing:

Name: Zou Dongyi  
Position: Manager  
Department: Department of EMC test  
Date: 2016-07-18  
Signature: 邹东屹

### 1.3 Testing Laboratory information

#### 1.3.1 Location

Name: China Telecommunication Technology Labs.  
Address: No. 11, Yue Tan Nan Jie, Xi Cheng District  
BEIJING  
P. R. CHINA, 100083  
Tel: +86 10 68094078  
Fax: +86 10 68011404  
Email: emc@chinattl.com

#### 1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity  
Assessment (CNAS)  
Registration number: CNAS Registration No. CNAS L0570  
Standard: ISO/IEC 17025:2005

#### 1.3.3 Test location, where different from section 1.3.1

Name: -----  
Address: -----

## **1.4 Details of applicant or manufacturer**

### **1.4.1 Applicant**

Name: Corporativo Lanix S.A.de C.V.  
Address: Carretera Internacional Hermosillo - Nogales Km 8.5  
Hermosillo, Sonora, México  
Country: Mexico  
Telephone: 6621090811  
Fax: --  
Contact: Oscar Guzman  
Telephone: 6621090811  
Email: oguzman@lanix.com

### **1.4.2 Manufacturer (if different from applicant in section 1.4.1)**

Name: Corporativo Lanix S.A.de C.V.  
Address: Carretera Internacional Hermosillo - Nogales Km 8.5  
Hermosillo, Sonora, México  
Country: Mexico

## 2 Test Item

### 2.1 General Information

Manufacturer: Corporativo Lanix S.A.de C.V.  
Name: Tablet  
Model Number: Ilium Pad L8X  
Serial Number: --  
Production Status: Product  
Receipt date of test item: 2015-06-29

### 2.2 Outline of EUT

The EUT, Ilium Pad L8X is a model supporting EDGE/GPRS/GSM 850/1900 bands, UMTS/HSDPA/HSUPA FDDII/V bands, FDD LTE BAND 2/4/7/17.

### 2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

### 2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Pad	Corporativo Lanix S.A.de C.V.	Ilium Pad L8X	--	None
B	Battery	None	None	--	None
C	Adaptor	None	None	--	None

### 2.5 Other Information

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**FCC Part15B**  
**Equipment: Ilium Pad L8X**

**REPORT NO.: B16X50266-EMC**

### 3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

Configuration1		
Specification Clause	Name of Test	Result
15.109(a)	Radiated Emission	Pass
15.107(a)	Conducted Emission	Pass

Test equipment Used:						
Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
1	EMI Test Receiver	R/S	ESU	100367	2017-03-05	Normal
2	Ultra Broadband Antenna	R/S	VULB 9163	vulb9163-544	2017-01-05	Normal
3	Double-Ridged Horn Antenna	R/S	HF907	100357	2016-12-12	Normal
4	Fully-Anechoic Chamber	ETS	11.8m×6.5m×6.3m	--	2016-11-14	Normal
5	AMN	R/S	ENV216	101128	2017-03-05	Normal

**FCC Part15B**  
**Equipment: Ilium Pad L8X**

**REPORT NO.: B16X50266-EMC**

## 4 Test Results

### 4.1 Radiated Emission

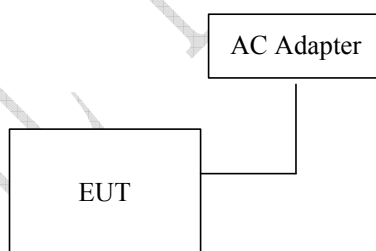
<b>Specifications:</b>	15.109(a)
<b>Date of Tests</b>	2016-06-29-2016-07-14
<b>Test conditions:</b>	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Operation Mode</b>	Normal
<b>Test Results:</b>	Pass

#### Limit Level Construction:

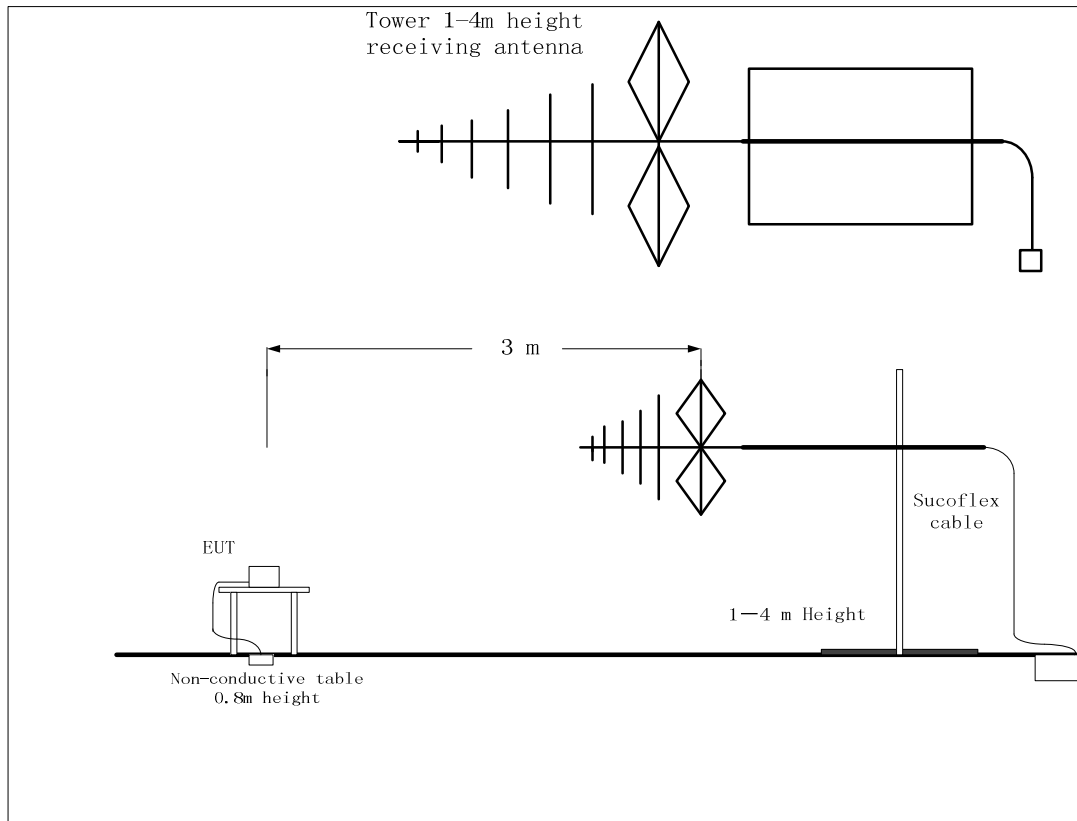
Frequency Range (MHz)	Quasi-Peak (dBuV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Frequency Range (MHz)	Peak (dBuV/m)	Average (dBuV/m)
Above 1000	74	54

#### EUT Setup:



### Test Setup:



### Test Method:

For 30-1000MHz, the EUT was placed on the top of a rotating 0.8-m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. Tested in accordance with the procedures of ANSI C63.4-2014, section 8.3.

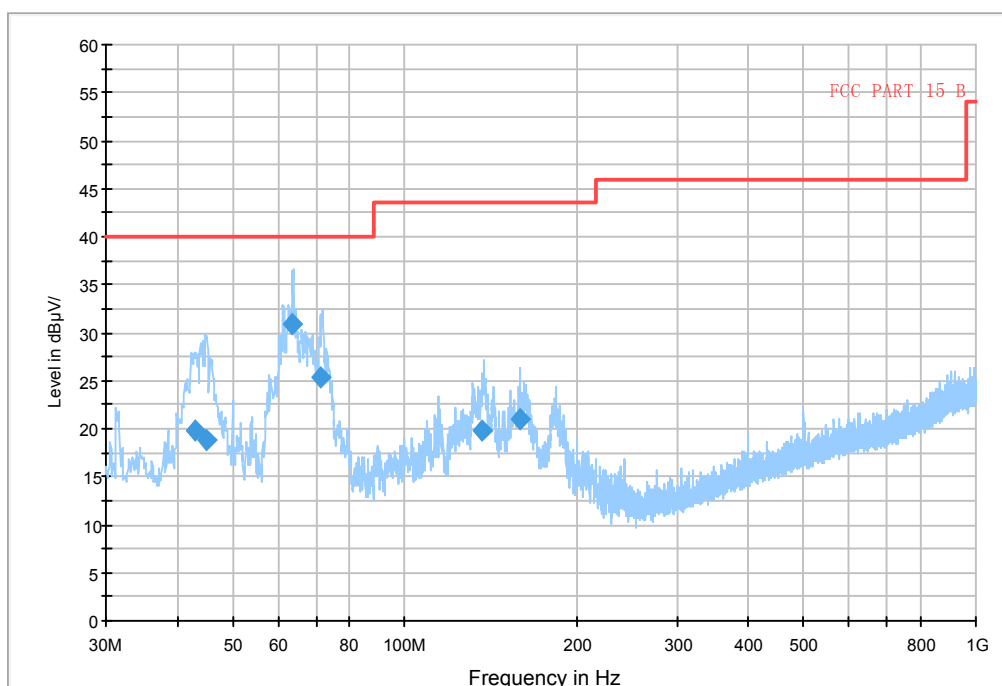
For 1000-12750MHz, the maximal emission value was acquired by adjusting the antenna height, and the table was rotated 360 degree to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

**FCC Part15B**  
**Equipment: Ilium Pad L8X**

**REPORT NO.: B16X50266-EMC**

## Test Data

RE 30MHz-1GHz

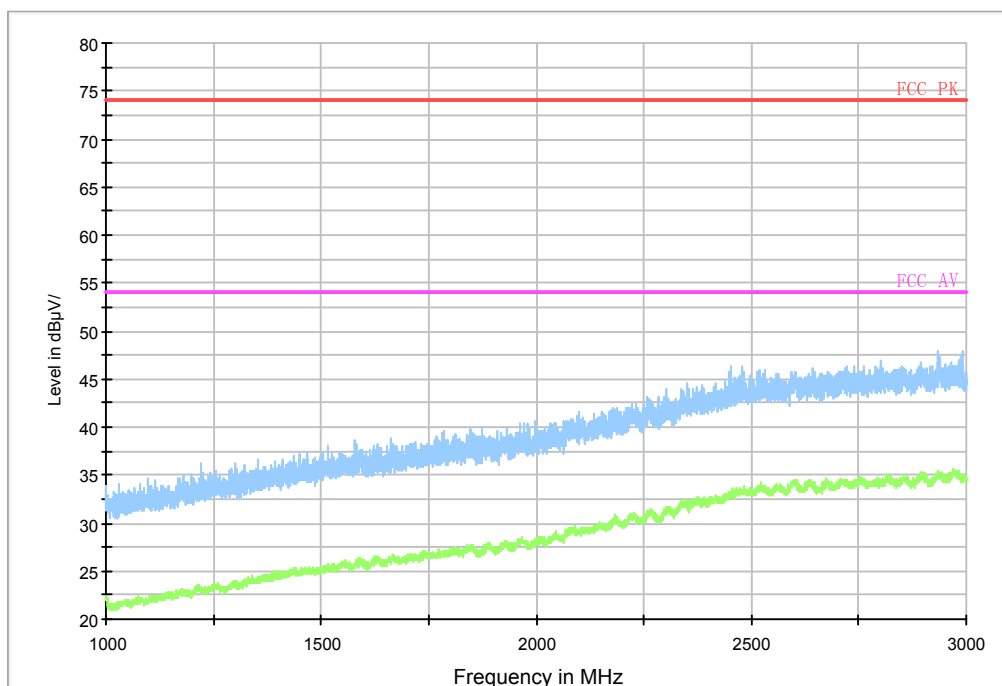


Frequency MHz	QP dBuV/m	Mea.Time ms	RBW KHz	Height cm	Polarity	Azimuth deg	Margin dB	Limit dBuV/m
42.916000	19.8	1000.0	120.0	218.0	V	180.0	20.2	40.0
45.041000	18.7	1000.0	120.0	185.0	V	90.0	21.3	40.0
63.353000	30.9	1000.0	120.0	116.0	V	245.0	9.1	40.0
71.507000	25.4	1000.0	120.0	116.0	V	270.0	14.6	40.0
136.976000	19.9	1000.0	120.0	216.0	H	0.0	23.6	43.5
159.798000	20.9	1000.0	120.0	183.0	H	300.0	22.6	43.5

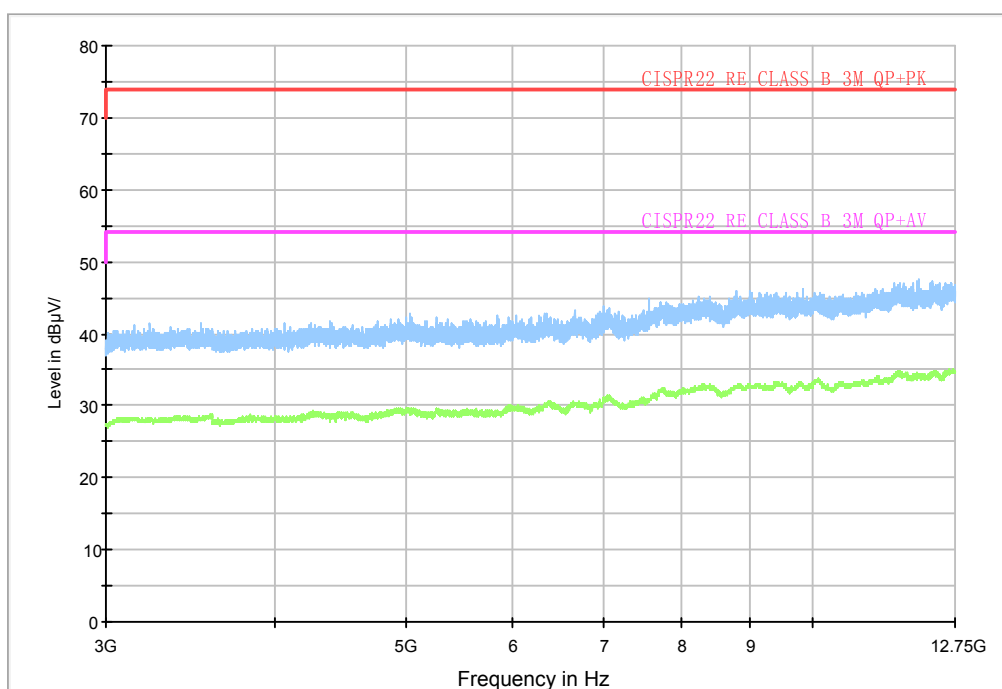
**FCC Part15B**  
**Equipment: Ilium Pad L8X**

**REPORT NO.: B16X50266-EMC**

RE 1GHz-3GHz



RE 3GHz-12.75GHz



### Test photo

See the Pic1~9 in document "Ilium Pad L8X\_EMC Test Setup Photos".

## 4.2 Conducted Emission

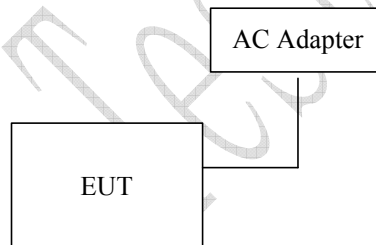
<b>Specifications:</b>	15.107(a)
<b>Date of Tests</b>	2016-06-29-2016-07-14
<b>Test conditions:</b>	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Operation Mode</b>	Normal
<b>Test Results:</b>	Pass

### Limit Level Construction:

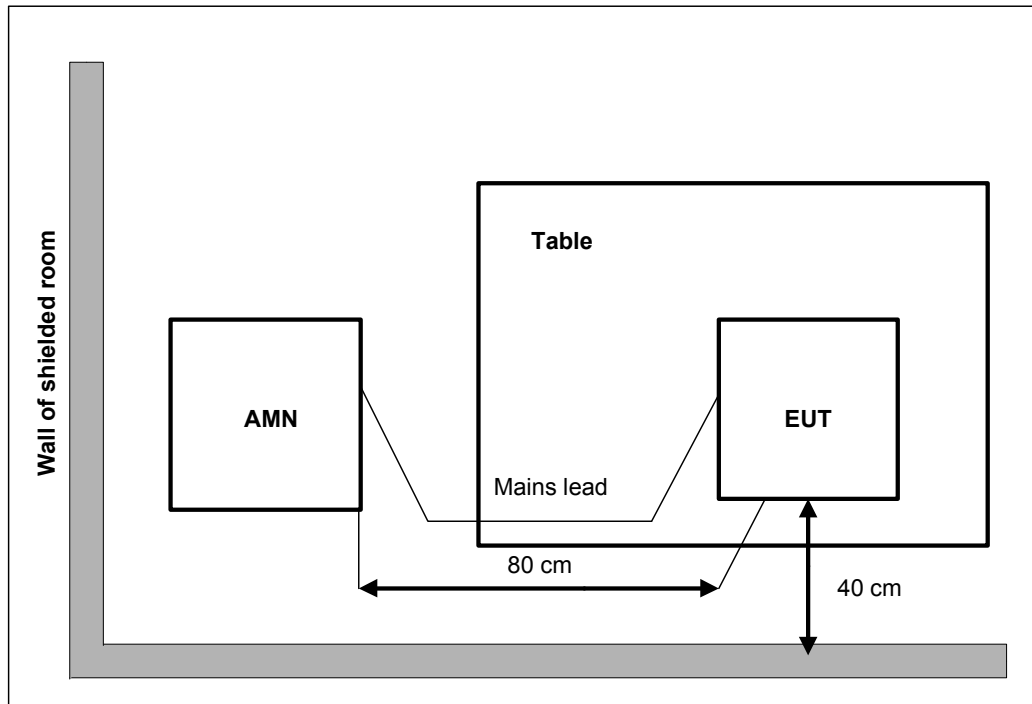
Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency

### EUT Setup:



### Test Setup:



### Test Method:

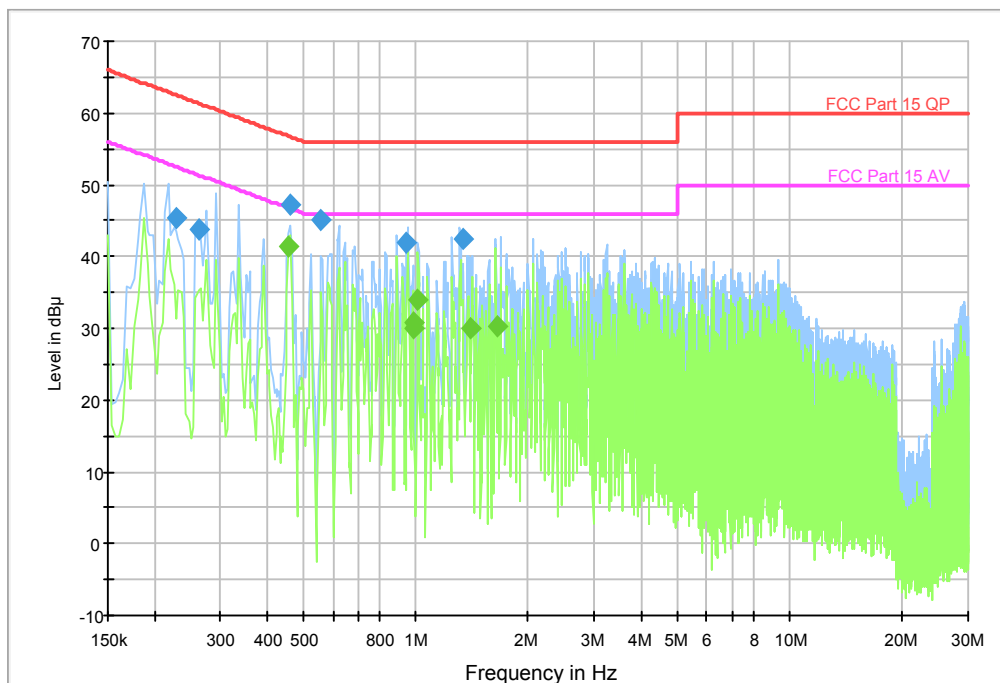
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies with the band 150 kHz to 30MHz shall not exceed the limits. Both lines of the power mains connected to the EUT were checked for maximum conducted interference. Tested in accordance with the procedures of ANSI C63.4-2014, section 7.3

**FCC Part15B**  
**Equipment: Ilium Pad L8X**

**REPORT NO.: B16X50266-EMC**

## Test Data

CISPR N&L1 Voltage 150k to 30MHz-Class B



Frequency MHz	QP dBuV	Mea.Time ms	Line	Margin dB	Limit dBuV
0.229788	45.3	1000.0	L1	17.2	62.5
0.262562	43.7	1000.0	L1	17.6	61.3
0.461425	47.2	1000.0	L1	9.5	56.7
0.553869	45.0	1000.0	L1	11.0	56.0
0.946219	41.9	1000.0	L1	14.1	56.0
1.336419	42.4	1000.0	L1	13.6	56.0

Frequency MHz	AV dBuV	Mea.Time ms	Line	Margin dB	Limit dBuV
0.457694	41.4	1000.0	L1	5.3	46.7
0.982219	30.7	1000.0	L1	15.3	46.0
0.982519	30.1	1000.0	L1	15.9	46.0
1.009919	34.0	1000.0	L1	12.0	46.0
1.404150	30.0	1000.0	L1	16.0	46.0
1.657306	30.2	1000.0	L1	15.8	46.0

## Test photo

See the Pic10 in document "Ilium Pad L8X\_EMC Test Setup Photos".

## **Annex A External Photos**

See the document "Ilium Pad L8X-External Photos".

## **Annex B Internal Photos**

See the document "Ilium Pad L8X-Internal Photos".

## **ANNEX C Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

\_\_\_\_\_ The End of this Report \_\_\_\_\_

Test Report