







## ISO/IEC17025 Accredited Lab.

Report No: FCC1408004

File reference No: 2014-08-04

Applicant: Shenzhen Harmony Technology Co., Ltd.

Product: Tablet PC

Brand Name: PROSCAN

Model No: PLT7100G

Test Standards: FCC Part 15 Subpart B

Test result:

It is herewith confirmed and found to comply with the requirements

set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of

electromagnetic compatibility

Approved By

Permy Tang

Terry Tong

Manager

Dated: August 04, 2014

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996 Email:info@timewaytech.com

Date: 2014-08-04



# **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

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The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

## FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

## IC-Registration No.: IC5205A-02

adopt any other remedies which may be appropriate."

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

## VCCI- Registration No.: R-3015 and C-3332

The EMC Laboratory has been registered and fully described in a report filed with the (VCCI) Voluntary Control Council for Interference. The acceptance letter from the VCCI is maintained in our files. Registration IC No.: R-3015 and C-3332

Date: 2014-08-04



# Test Report Conclusion

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## 1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688

Fax: (755) 83442996

1.2 Applicant Details

Applicant: Shenzhen Harmony Technology Co., Ltd.

Address: Block 2, Jiayuan Industrial Zone, Heping Community high-tech park, No 2 Fuyuan Road,

Fuyong, Bao'an, Shenzhen, China

Telephone: -Fax: --

1.3 Description of EUT

Product: Tablet PC

Manufacturer: Shenzhen Harmony Technology Co., Ltd.

Address: Block 2, Jiayuan Industrial Zone, Heping Community high-tech park, No 2 Fuyuan Road,

Fuyong, Bao'an, Shenzhen, China

Brand Name: PROSCAN

Model Number: PLT7100G

Additional Model Number: N/A

1.4 Submitted Sample: 1 Sample

1.5 Test Duration: 2014-06-06 to 2014-08-04

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty = 4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Leo Lau

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

Date: 2014-08-04



#### 2.0 List of Measurement Equipment

#### 2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2013-08-21	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2013-08-21	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2013-08-24	1Year
LISN	ESH3-Z5	100294	RS	2013-08-23	1Year
LISN	ESH3-Z5	100253	RS	2013-08-23	1Year
LISN	LS16C	10010947251	AFJ	2013-08-23	1Year
LISN (Three Phase)	NSLK 8126	8126453	Schwarebeck	2013-08-23	1Year

#### 2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESVD	100008	RS	2013-08-23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	НР	2014-07-21	1Year
Amplifier	8447D	2727A05017	HP	2014-07-21	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2013-08-21	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2013-08-24	1Year
Horn Antenna	BBHA 9170	BBHA9170265	Schwarebeck	2013-08-24	1Year

#### 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Data Cable	Power Cord
					1.5m
Computer	M499	<b></b>	Lenovo		Shielded
SD Card	SR176-C4		SONY		

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

Date: 2014-08-04



#### 3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

FCC Part 15 Subpart B

### 4.0 Decision of final test mode

The EUT was tested together with the thereinafter additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode							
		Mode1: Charging & Recording					
	Conducted Emission	Mode2: Charging & Playing Video					
	Conducted Emission	Mode3: Data exchanging with SD card					
Emission		Mode4: Data exchanging with PC					
Ellission		Model: Charging & Recording					
		Mode2: Charging & Playing Video					
	Radiated Emission	Mode3: Data exchanging with SD card					
		Mode4: Data changing with PC					

After the preliminary scan, the following test mode was found to produce the highest emission level.

The Worst Test Mode						
Emission	Conducted Emission	Mode3: Data exchanging with SD card				
	Radiated Emission	Mode3: Data exchanging with SD card				

Then, the EUT configuration and cable configuration of the above highest emission mode was chosen for all final test items

- 4.1 EUT System Operation
- 1. Set up EUT with the relative support equipments.
- 2. Make sure the EUT worked normally during the test.

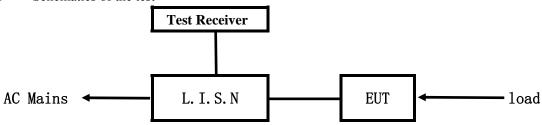
<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

Date: 2014-08-04



### 5.0 Conducted Power line Test

#### 5.1 Schematics of the test

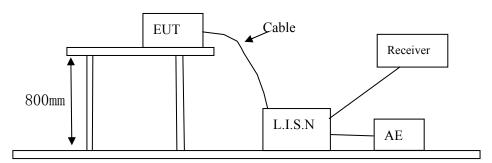


**EUT: Equipment Under Test** 

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



## 5.3 Power line conducted Emission Limit

Eraguanay(MHz)	Class A Li	mits dB(μV)	Class B Limits dB(μV)		
Frequency(MHz)	Quasi-peak Level Average Level		Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.00	66.00	66.00~56.00*	56.00~46.00*	
$0.50 \sim 5.00$	73.00	60.00	56.00	46.00	
5.00 ~ 30.00	73.00	60.00	60.00	50.00	

Notes:

- 1. \*decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

### 5.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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### A: Conducted Emission on Live Terminal (150kHz to 30MHz)

## **EUT Operating Environment**

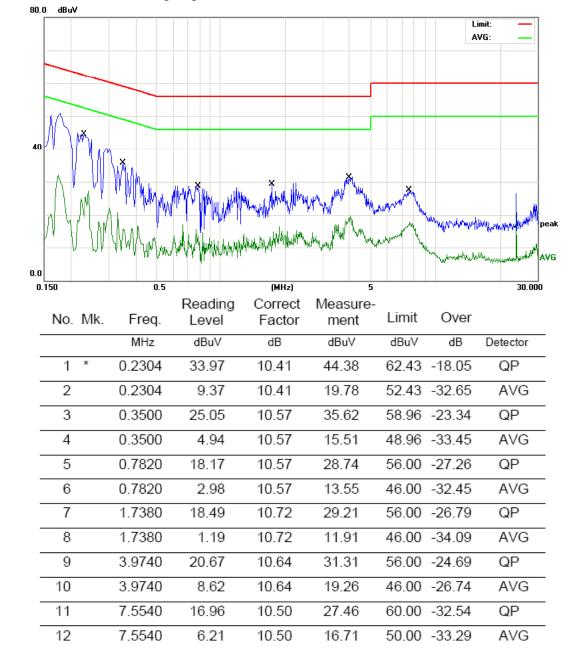
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Data exchanging with SD card

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



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## B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

## **EUT Operating Environment**

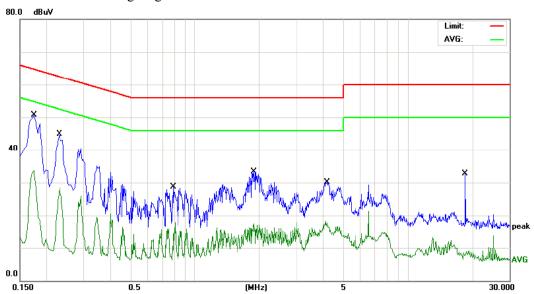
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Data exchanging with SD card** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBu∀	dBuV	dB	Detector
1	*	0.1731	40.01	10.38	50.39	64.81	-14.42	QP
2		0.1731	23.03	10.38	33.41	54.81	-21.40	AVG
3		0.2304	33.86	10.41	44.27	62.43	-18.16	QP
4		0.2304	17.78	10.41	28.19	52.43	-24.24	AVG
5		0.7900	18.14	10.54	28.68	56.00	-27.32	QP
6		0.7900	3.94	10.54	14.48	46.00	-31.52	AVG
7		1.8900	22.59	10.72	33.31	56.00	-22.69	QP
8		1.8900	6.57	10.72	17.29	46.00	-28.71	AVG
9		4.1540	19.26	10.63	29.89	56.00	-26.11	QP
10		4.1540	6.05	10.63	16.68	46.00	-29.32	AVG
11		18.6140	22.18	10.49	32.67	60.00	-27.33	QP
12		18.6140	-2.69	10.49	7.80	50.00	-42.20	AVG

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#### 6.0 Radiated Disturbance Test

#### 6.1 Schematics of the test

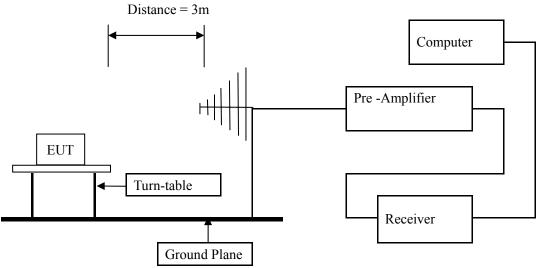


### 6.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120kHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

Test Voltage: 120V~, 60Hz

## **Block diagram of Test setup**



### 6.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

### 6.4 Test result

The frequency spectrum from 30MHz to 13GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

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## A: Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Data exchanging with SD card

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	T: D€
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	de
	98.8326	25.55	-9.17	16.38	43.50	-27.12	peak		
	148.4410	35.98	-6.41	29.57	43.50	-13.93	peak		
	197.8928	42.15	-6.24	35.91	43.50	-7.59	peak		
!	346.8092	43.78	-2.98	40.80	46.00	-5.20	peak		
*	396.2415	44.79	-3.32	41.47	46.00	-4.53	peak		
	744.8661	34.86	3.22	38.08	46.00	-7.92	peak		
_	!	98.8326 148.4410 197.8928 ! 346.8092 * 396.2415	Mk. Freq. Level  MHz dBuV  98.8326 25.55  148.4410 35.98  197.8928 42.15  ! 346.8092 43.78  * 396.2415 44.79	Mk. Freq. Level Factor  MHz dBuV dB  98.8326 25.55 -9.17  148.4410 35.98 -6.41  197.8928 42.15 -6.24  ! 346.8092 43.78 -2.98  * 396.2415 44.79 -3.32	Mk. Freq. Level Factor ment  MHz dBuV dB dBuV/m  98.8326 25.55 -9.17 16.38  148.4410 35.98 -6.41 29.57  197.8928 42.15 -6.24 35.91  ! 346.8092 43.78 -2.98 40.80  * 396.2415 44.79 -3.32 41.47	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           98.8326         25.55         -9.17         16.38         43.50           148.4410         35.98         -6.41         29.57         43.50           197.8928         42.15         -6.24         35.91         43.50           !         346.8092         43.78         -2.98         40.80         46.00           *         396.2415         44.79         -3.32         41.47         46.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         dBuV/m         dB           98.8326         25.55         -9.17         16.38         43.50         -27.12           148.4410         35.98         -6.41         29.57         43.50         -13.93           197.8928         42.15         -6.24         35.91         43.50         -7.59           !         346.8092         43.78         -2.98         40.80         46.00         -5.20           *         396.2415         44.79         -3.32         41.47         46.00         -4.53	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           98.8326         25.55         -9.17         16.38         43.50         -27.12         peak           148.4410         35.98         -6.41         29.57         43.50         -13.93         peak           197.8928         42.15         -6.24         35.91         43.50         -7.59         peak           !         346.8092         43.78         -2.98         40.80         46.00         -5.20         peak           *         396.2415         44.79         -3.32         41.47         46.00         -4.53         peak	Mk.         Freq.         Level         Factor         ment         Limit         Over         Height           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector         cm           98.8326         25.55         -9.17         16.38         43.50         -27.12         peak           148.4410         35.98         -6.41         29.57         43.50         -13.93         peak           197.8928         42.15         -6.24         35.91         43.50         -7.59         peak           !         346.8092         43.78         -2.98         40.80         46.00         -5.20         peak           *         396.2415         44.79         -3.32         41.47         46.00         -4.53         peak

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Date: 2014-08-04



## **B:** Radiated Disturbance (30MHz----1000MHz)

## **EUT Operating Environment**

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Data exchanging with SD card

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	D D
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	d
1		49.5328	36.56	-18.52	18.04	40.00	-21.96	peak		
2		148.4410	33.08	-8.42	24.66	43.50	-18.84	peak		
3		197.8928	36.23	-5.28	30.95	43.50	-12.55	peak		_
4	*	396.2415	41.16	-0.63	40.53	46.00	-5.47	peak		_
5		545.1826	34.84	0.23	35.07	46.00	-10.93	peak		
6		942.1305	27.32	4.55	31.87	46.00	-14.13	peak		

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### C Radiated Disturbance (1000 MHz ---6000MHz)

## **EUT Operating Environment**

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Data exchanging with SD card

**Equipment Level: Class B** 

**Results: Pass** 

11

12

2794.872

2794.872

Please refer to following diagram for individual

80.0 dBuV/m Limit: 10 0.0 1000.000 1500.00 2000.00 3500.00 4000.00 4500.00 5000.00 6000.00 MHz 2500.00 3000.00 Reading Correct Measure-Antenna Table Limit Over No. Mk. Freq. Level Factor ment Height Degree MHz dBuV dB dBuV/m dBuV/m dB Detector cm degree Comment 1328.526 57.97 -12.23 45.74 74.00 -28.26 1 peak AVG 2 1328.526 42.50 -12.2330.27 54.00 -23.733 1584.936 58.33 -12.23 46.10 74.00 -27.90 peak 30.57 4 1584.936 42.80 -12.23 54.00 -23.43 AVG 5 1993.590 57.03 -10.81 46.22 74.00 -27.78 peak 30.89 6 1993.590 41.70 -10.81 54.00 -23.11 AVG 7 2394.231 52.83 -8.66 44.17 74.00 -29.83 peak 8 2394.231 36.90 -8.66 28.24 54.00 -25.76 AVG 9 2642.628 53.95 -8.25 45.70 74.00 -28.30 peak 10 37.20 -8.25 54.00 -25.05 AVG 2642.628 28.95

-8.06

-8.06

49.80

33.54

57.86

41.60

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74.00

54.00

-24.20

-20.46

peak

AVG

<sup>&</sup>quot;The report refers only to the sample tested and does not apply to the bulk production.

Date: 2014-08-04



### D Radiated Disturbance (1000 MHz --- 6000MHz)

### **EUT Operating Environment**

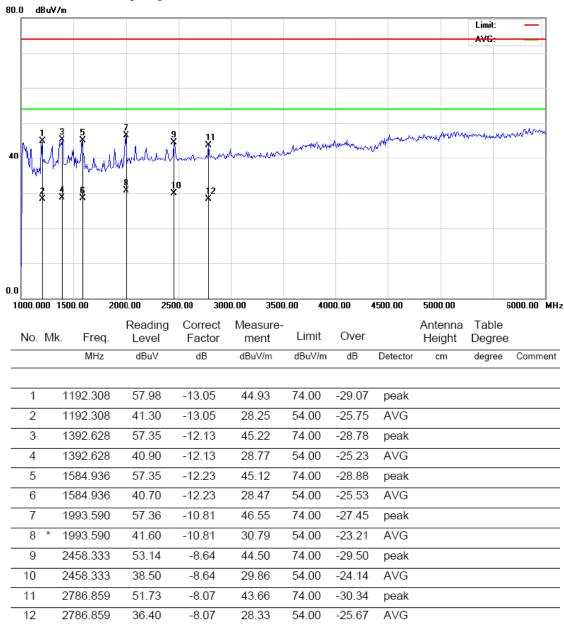
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Data exchanging with SD card

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Note: the emissions above 6GHz are all 20dB below the limit, no record in this report.

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#### FCC ID: 2ACJAPLT7I00G **7.0**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

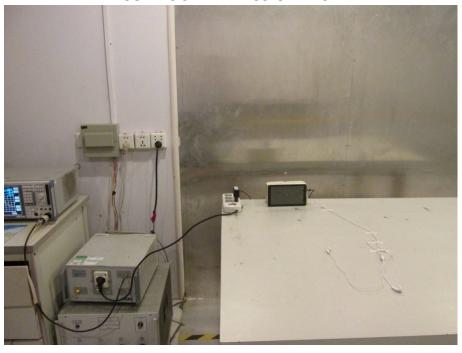
The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location: On the product body

Date: 2014-08-04



# 8. 0 PHOTOGRAPHS OF THE TEST CONFIGURATION **CONDUCTED EMISSION TEST**



In the event of the improper use of the report. The Shenzhen Timeway Technology Consulting co., Ltd reserves the rights to withdraw it and toadopt any other remedies which may be appropriate."

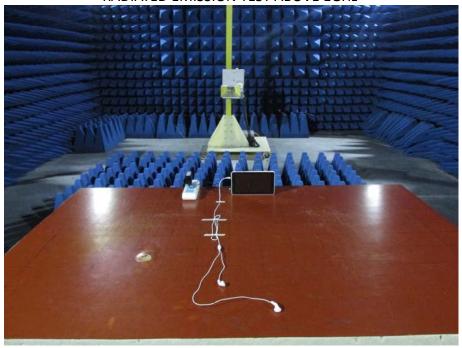
Date: 2014-08-04



## **RADIATED EMISSION TEST BELOW 1GHz**



## **RADIATED EMISSION TEST ABOVE 1GHz**



"The report refers only to the sample tested and does not apply to the bulk production.

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Date: 2014-08-04



## PHOTOGRAPHS OF EUT

Appearance photograph of EUT



Appearance photograph of EUT



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## Internal photograph of EUT



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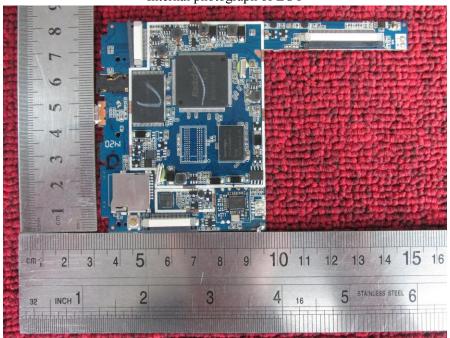
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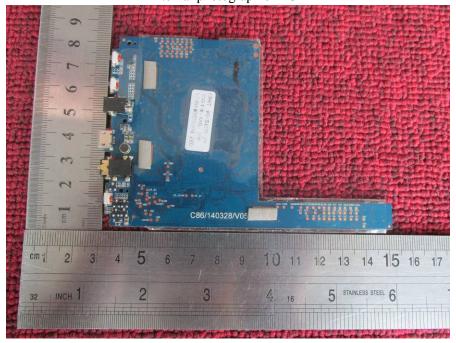
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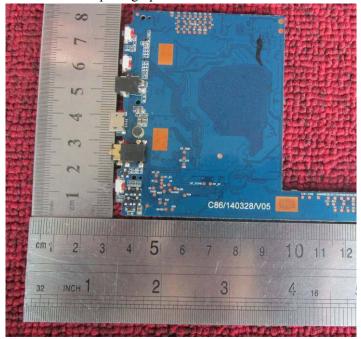
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-End of the report