

## FCC TEST REPORT

### 47 CFR FCC Part 15 Subpart B

Report Reference No.: TRE1402009602 R/C: 17462

FCC ID.: 2AB33-TST178

Compiled by

( position+printed name+signature) : File administrators Jerome Luo

*Jerome luo*

Supervised by

( position+printed name+signature) : Test Engineer Yuchao Wang

*yuchao.wang*

Approved by

( position+printed name+signature) : Manager Wenliang Li

*Wenliang*

Date of issue: Mar 24, 2014

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Address: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Applicant's name: Thunder Software Technology(Shenzhen) Co.,Ltd.

Address: 7A03 Room, Microprofit Mansion, Nanshan District, Shenzhen City, China

Test specification:

Standard: 47 CFR FCC Part 15 Subpart B - Unintentional Radiators  
ANSI C63.4: 2009

TRF Originator: Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF: Dated 2006-06

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Test item description: PAD

Trade Mark: /

Manufacturer: Thunder Software Technology(Shenzhen) Co.,Ltd.

Model/Type reference: TST-178-A

Listed Models: TST-178-B

Rating: Internal battery: 3.7V, 3000mAh

Adaptor: Input 100-240V a.c., 50/60Hz, 0.5A; Output 5V d.c., 2.5A

Result: **PASS**

## TEST REPORT

Test Report No. :	TRE1402009602	Mar 24, 2014
		Date of issue

Equipment under Test : PAD

Model /Type : TST-178-A

Listed Models : TST-178-B

**Applicant** : **Thunder Software Technology(Shenzhen) Co.,Ltd.**

Address : 7A03 Room,Microprofit Mansion,Nanshan District,Shenzhen City,China

**Manufacturer** : **Thunder Software Technology(Shenzhen) Co.,Ltd.**

Address : 7A03 Room,Microprofit Mansion,Nanshan District,Shenzhen City,China

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## **1. TEST STANDARDS**

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B - Unintentional Radiators](#)

[ANSI C63.4: 2009](#) – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

## 2. SUMMARY

### 2.1. General Remarks

Date of receipt of test sample	:	Feb 15, 2014
	:	
Testing commenced on	:	Feb 17, 2014
	:	
Testing concluded on	:	Mar 23, 2014

### 2.2. Equipment Under Test

#### Power supply system utilised

Power supply voltage	:	<input checked="" type="radio"/> 120V / 60 Hz	<input type="radio"/> 115V / 60Hz
	:	<input checked="" type="radio"/> 5 V DC	<input type="radio"/> 24 V DC
	:	<input type="radio"/> Other (specified in blank below)	

Internal battery:3.7V, 3000mAh  
Adaptor:Input 100-240Va.c., 50/60Hz, 0.5A; Output 5Vd.c., 2.5A

### 2.3. Short description of the Equipment under Test (EUT)

The **Thunder Software Technology(Shenzhen) Co.,Ltd.** 's Model:TST-178-A or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT	PAD
Model Number	TST-178-A,TST-178-B
FCC ID	2AB33-TST178
WLAN	Supported 802.11b/802.11g/802.11n
Bluetooth	Not Supported
Antenna Type	Internal
WLAN FCC Operation frequency	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz
WLAN Modulation	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)

### 2.4. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE2	Charger and USB cable

AE2:

MODEL: AW018WR-0500250V V  
 INPUT:100-240V~0.3A 50/60Hz 0.5A  
 OUTPUT: 5V DC 2.5A  
 ◇ Shielded      ◆ Unshielded

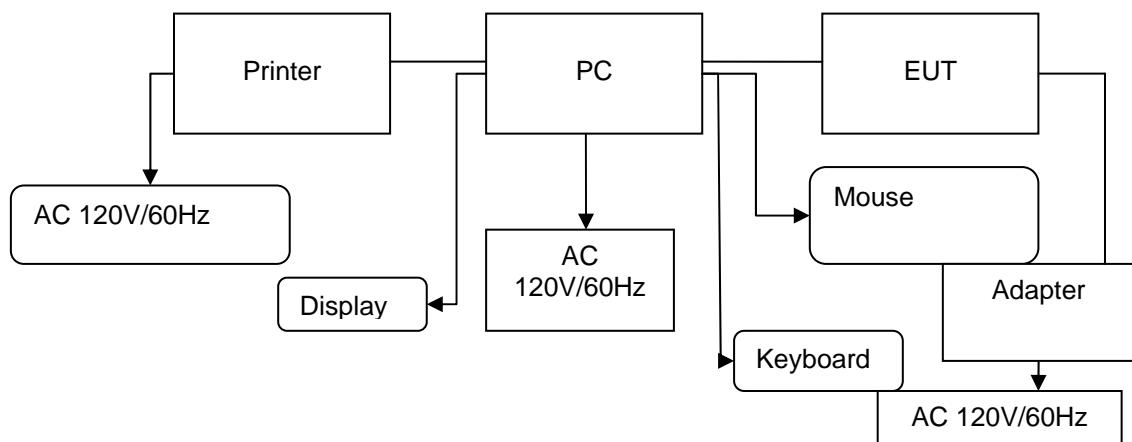
\*AE ID: is used to identify the test sample in the lab internally.

## 2.5. Modifications

No modifications were implemented to meet testing criteria.

## 2.6. Configuration of Tested System

Configuration of Tested System



Equipment Used in Tested System

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/unshielded	Notes
1	PC	DELL	DIMENSION E520	1RNN42X	/	/	DOC
2	Printer	ESPOn	C3990	C3990A	/	/	DOC
3	Mouse	DELL	MO56U OA	G0E02SY7	1.00m	unshielded	DOC
4	Display	DELL	1707FPt	CN-OFC237-71618-65G-AAKC	/	/	DOC
5	Keyboard	DELL	L100	CNRH65665890726 009L	/	/	DOC
6	USB Cable (EUT to PC)	Star Computer Group	USB 2.0	N/A	0.80m	unshielded	N/A
7	USB Cable (Printer to PC)	Genshuo	USB 2.0	N/A	1.20m	unshielded	N/A
8	Power line	/	/	N/A	1.00m	unshielded	N/A

## 2.7. NOTE

1. The EUT is a PAD with WLAN function, The functions of the EUT listed as below:

	Test Standards	Reference Report
WLAN	FCC Part 15 C 15.247	TRE1402009601
USB Port	FCC Part 15 Subpart B	TRE1402009602
RF Exposure	FCC Per 47 CFR 2.1093(d)	TRE1402009603

### **3. TEST ENVIRONMENT**

#### **3.1. Address of the test laboratory**

Shenzhen Huatongwei International Inspection Co., Ltd  
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China  
Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2009) and CISPR Publication 22.

#### **3.2. Test Facility**

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

##### **CNAS-Lab Code: L1225**

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: Mar. 29, 2012. Valid time is until Feb. 28, 2015.

##### **A2LA-Lab Cert. No. 2243.01**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept. 30, 2015.

##### **FCC-Registration No.: 662850**

Shenzhen Huatongwei International Inspection Co., Ltd. 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 662850, Renewal date June. 01, 2012, valid time is until June. 01, 2015.

##### **IC-Registration No.: 5377A**

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Jan. 25, 2011, valid time is until Jan. 24, 2014.

##### **ACA**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

##### **VCCI**

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2010. Valid time is until Dec. 23, 2013.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2009. Valid time is until Dec. 19, 2012.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2010. Valid time is until May 06, 2013.

##### **DNV**

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

### 3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

### 3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3.5. Equipments Used during the Test

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due
1	EMI TEST RECEIVER	Rohde & Schwarz	ESCI	100106	2014/10/25
2	ARTIFICIAL MAINS	Rohde & Schwarz	ESH2-Z5	100028	2014/10/25
3	PULSE LIMITER	Rohde & Schwarz	ESHSZ2	100044	2014/10/25
4	EMI TEST SOFTWARE	Rohde & Schwarz	ES-K1	N/A	N/A

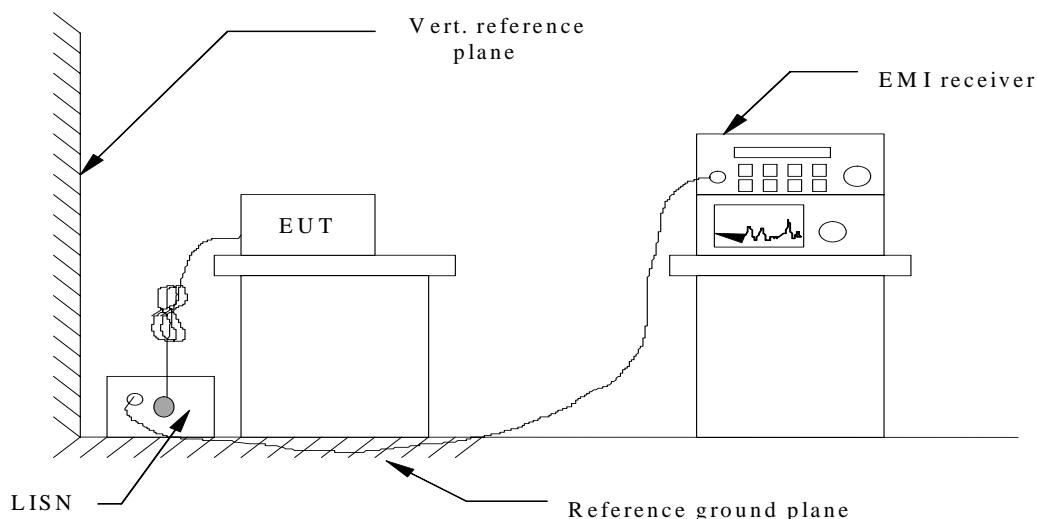
Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Due
1	Ultra-Broadband Antenna	Rohde&Schwarz	HL562	100015	2014/10/25
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2014/10/25
3	EMI TEST Software	Rohde&Schwarz	ES-K1 V1.71	N/A	2014/10/25
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST OFTWARE	Rohde&Schwarz	ESK1	N/A	N/A
7	HORN ANTENNA	Rohde&Schwarz	HF906	100023	2014/10/25
8	Amplifier	Sonoma	310N	E009-13	2014/10/25
9	JS amplifier	Rohde&Schwarz	JS4-00101800-28-5A	F201504	2014/10/25
10	Amplifier	Compliance Direction systems	PAP1-4060	120	2014/10/25
11	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2014/10/25
12	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2014/10/25
13	EMI TEST OFTWARE	Audix	E3	N/A	N/A

The calibration interval was one year.

## 4. TEST CONDITIONS AND RESULTS

### 4.1. Conducted Emissions Test

#### TEST CONFIGURATION



#### TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2009.
- 2 Support equipment, if needed, was placed as per ANSI C63.4-2009.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2009.
- 4 The EUT received DC 5.0V Adapter from AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

#### CONDUCTED POWER LINE EMISSION LIMIT

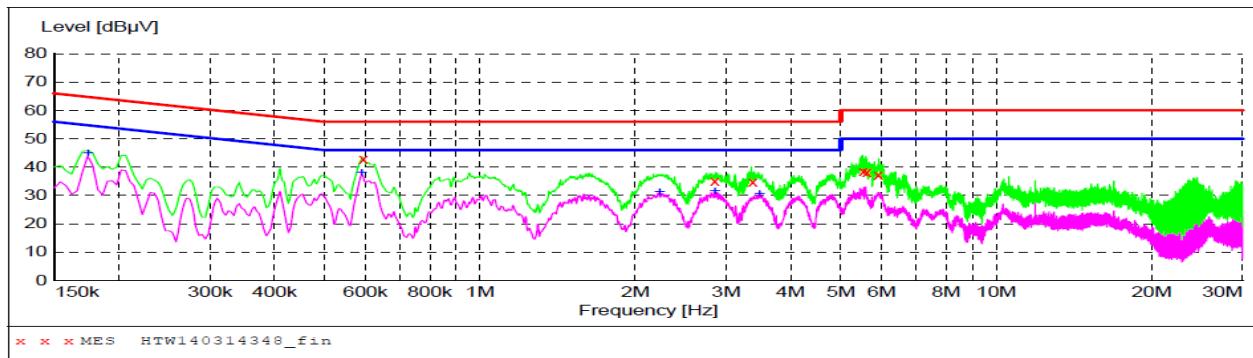
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

Frequency (MHz)	Maximum RF Line Voltage (dB $\mu$ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

\* Decreasing linearly with the logarithm of the frequency

#### TEST RESULTS

**SCAN TABLE: "Voltage (9K-30M) FIN"**  
Short Description: 150K-30M Voltage



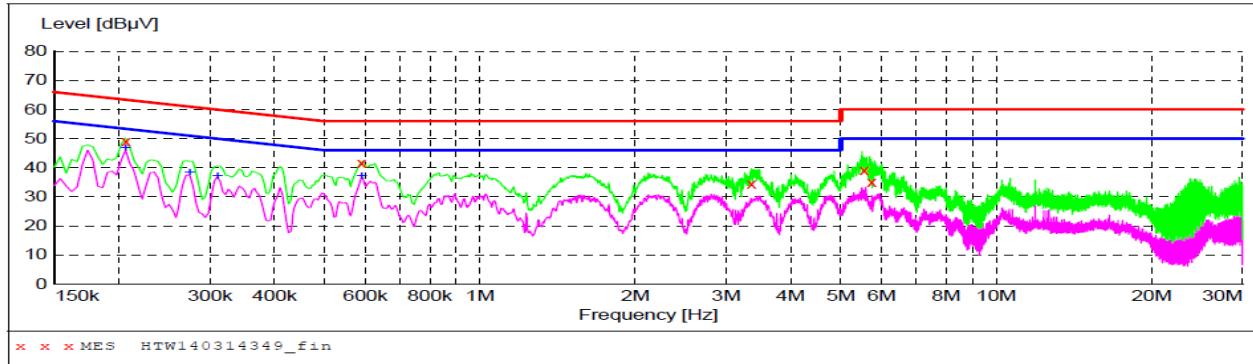
**MEASUREMENT RESULT: "HTW140314348\_fin"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.594000	42.70	10.4	56	13.3	QP	N	GND
2.850000	35.00	10.5	56	21.0	QP	N	GND
3.374000	34.80	10.5	56	21.2	QP	N	GND
5.530000	38.60	10.6	60	21.4	QP	N	GND
5.610000	38.20	10.6	60	21.8	QP	N	GND
5.906000	37.20	10.6	60	22.8	QP	N	GND

**MEASUREMENT RESULT: "HTW140314348\_fin2"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.174000	45.10	12.5	55	9.7	AV	N	GND
0.590000	38.10	10.4	46	7.9	AV	N	GND
2.226000	31.20	10.5	46	14.8	AV	N	GND
2.850000	31.60	10.5	46	14.4	AV	N	GND
3.478000	30.70	10.5	46	15.3	AV	N	GND

**SCAN TABLE: "Voltage (9K-30M) FIN"**  
Short Description: 150K-30M Voltage



**MEASUREMENT RESULT: "HTW140314349\_fin"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.206000	48.90	11.8	63	14.5	QP	L1	GND
0.590000	41.50	10.4	56	14.5	QP	L1	GND
3.354000	34.30	10.5	56	21.7	QP	L1	GND
5.550000	39.10	10.6	60	20.9	QP	L1	GND
5.730000	35.00	10.6	60	25.0	QP	L1	GND

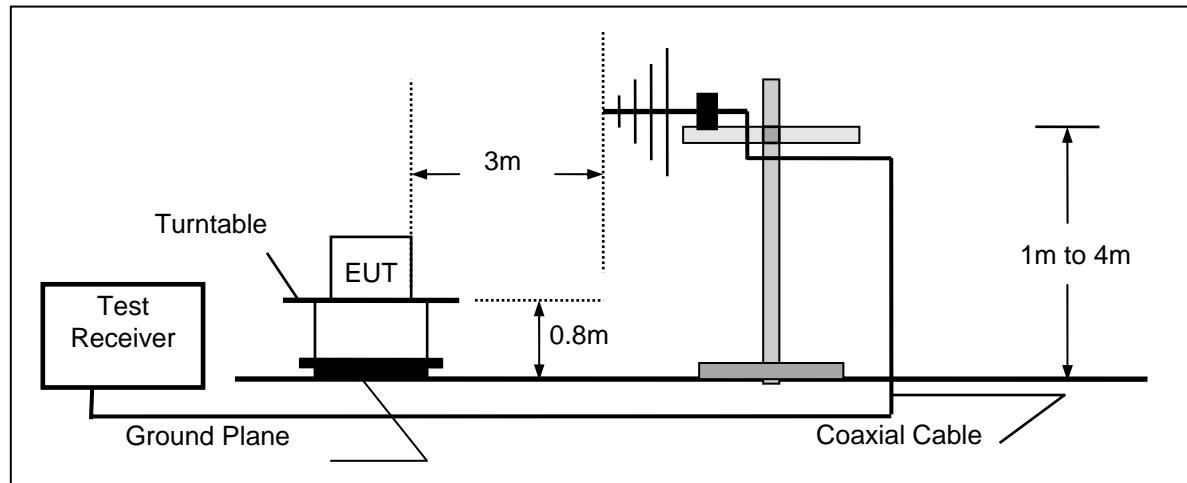
**MEASUREMENT RESULT: "HTW140314349\_fin2"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.206000	46.70	11.8	53	6.7	AV	L1	GND
0.274000	38.40	11.0	51	12.6	AV	L1	GND
0.310000	37.30	10.8	50	12.7	AV	L1	GND
0.590000	37.20	10.4	46	8.8	AV	L1	GND

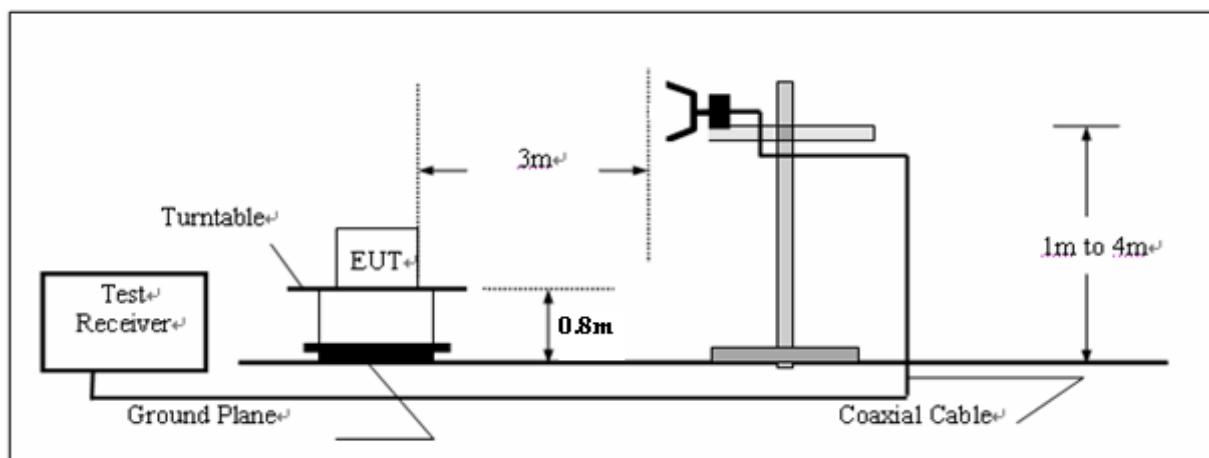
## 4.2. Radiated Emission Test

### TEST CONFIGURATION

a) Radiated Emission Test Set-Up, Frequency below 1000MHz



b) Radiated Emission Test Set-Up, Frequency above 1000MHz



### TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The maximum operation frequency was 512MHz, the radiated emission test frequency from 30MHz to 18GHz.

### FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{FS = RA + AF + CL - AG}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

For example

Frequency (MHz)	FS (dB $\mu$ V/m)	RA (dB $\mu$ V/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
300.00	40	58.1	12.2	1.6	31.90	-18.1

$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

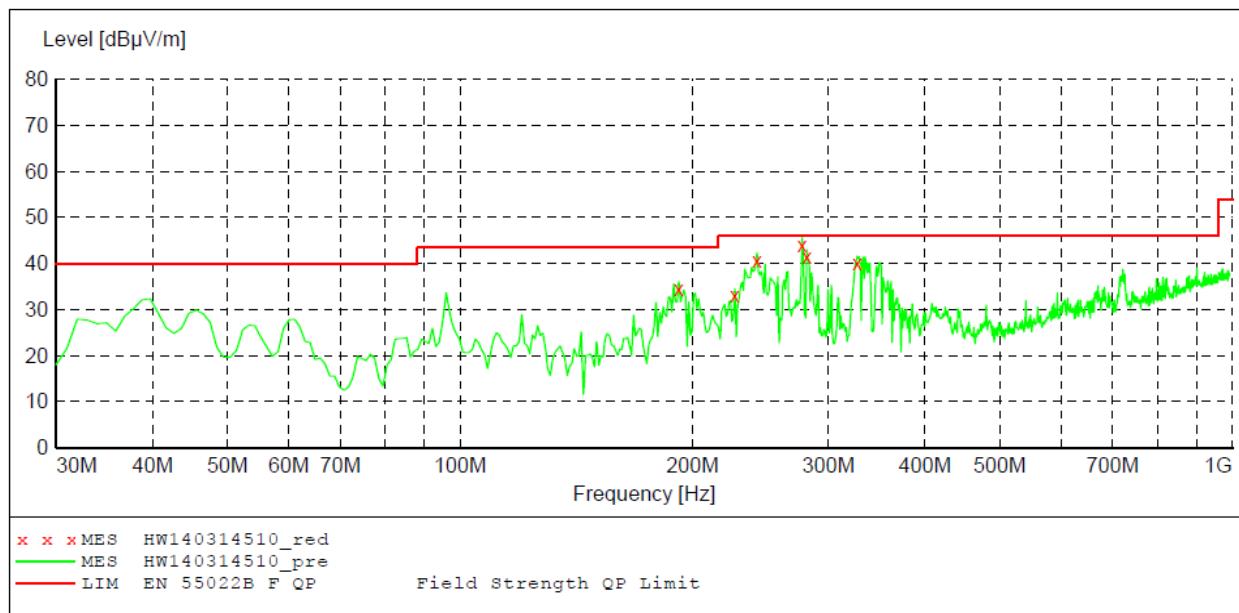
### RADIATION LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB $\mu$ V/m)	Radiated ( $\mu$ V/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

**TEST RESULTS****30MHz-1GHz****SCAN TABLE: "test Field (30M-1G) QP"**

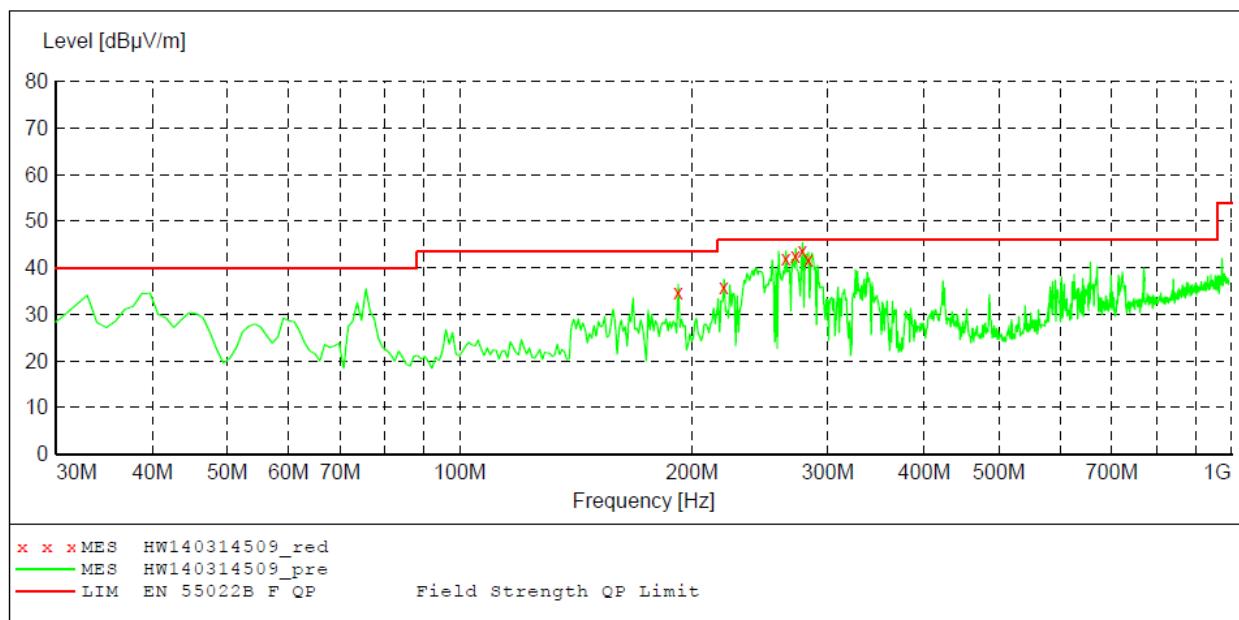
Short Description:		Field Strength (30M-1G)				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562

**MEASUREMENT RESULT: "HW140314510\_red"**

3/14/2014 10:22AM									
Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization	
191.990000	36.10	-14.7	43.5	7.4	QP	100.0	340.00	HORIZONTAL	
226.910000	34.60	-15.1	46.0	11.4	QP	100.0	340.00	HORIZONTAL	
242.430000	40.40	-15.4	46.0	5.6	QP	100.0	112.00	HORIZONTAL	
277.350000	43.60	-14.7	46.0	2.4	QP	100.0	70.00	HORIZONTAL	
281.230000	42.00	-14.5	46.0	4.0	QP	100.0	70.00	HORIZONTAL	
326.820000	39.70	-13.0	46.0	6.3	QP	100.0	70.00	HORIZONTAL	

## SCAN TABLE: "test Field (30M-1G) QP"

Short Description: Field Strength (30M-1G)  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562

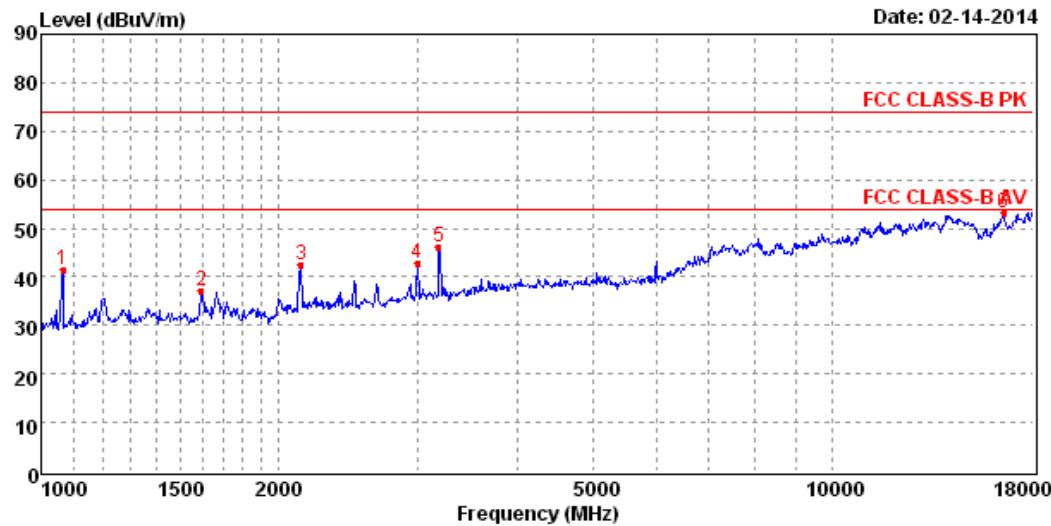


## MEASUREMENT RESULT: "HW140314509\_red"

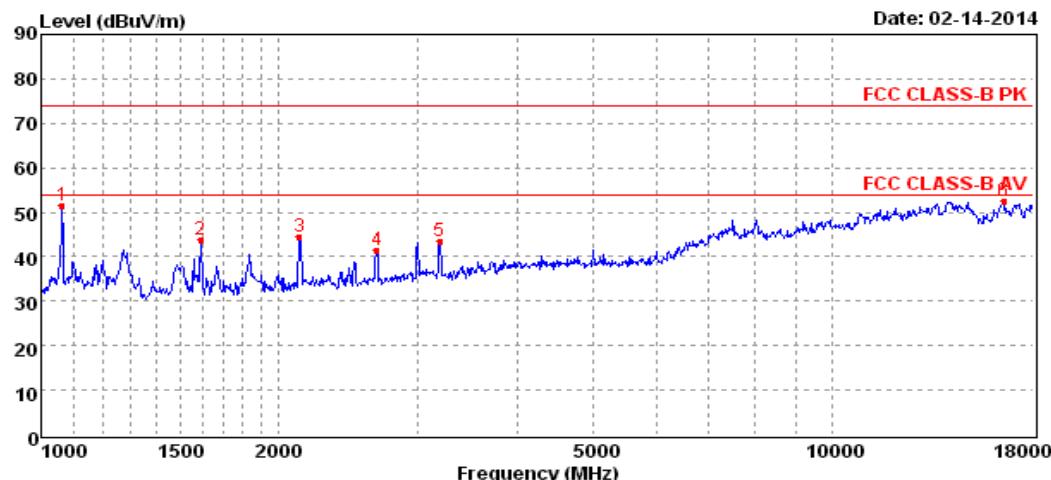
3/14/2014 10:20AM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
191.990000	36.50	-14.7	43.5	7.0	QP	100.0	36.00	VERTICAL
220.120000	37.60	-15.1	43.5	5.9	QP	100.0	7.00	VERTICAL
264.740000	41.70	-15.4	46.0	4.3	QP	100.0	7.00	VERTICAL
272.500000	42.20	-15.0	46.0	3.8	QP	100.0	7.00	VERTICAL
278.320000	43.50	-14.7	46.0	2.5	QP	100.0	7.00	VERTICAL
283.170000	41.40	-14.4	46.0	4.6	QP	100.0	7.00	VERTICAL

1GHz-18GHz



Mark	Frequency MHz	Level dBuV/m	Factor dB	Reading dBuV/m	Limit dBuV/m	Margin dB	Polarization	Det.
1	1065.65	41.35	-9.83	51.18	74.00	32.65	HORIZONTAL	Peak
2	1597.18	37.14	-8.38	45.52	74.00	36.86	HORIZONTAL	Peak
3	2132.46	42.38	-5.58	47.96	74.00	31.62	HORIZONTAL	Peak
4	2990.53	42.94	-3.34	46.28	74.00	31.06	HORIZONTAL	Peak
5	3186.87	46.10	-2.80	48.90	74.00	27.90	HORIZONTAL	Peak
6	16504.96	53.22	20.18	33.04	74.00	20.78	HORIZONTAL	Peak



Mark	Frequency MHz	Level dBuV/m	Factor dB	Reading dBuV/m	Limit dBuV/m	Margin dB	Polarization	Det.
1	1062.58	51.41	-9.83	61.24	74.00	22.59	VERTICAL	Peak
2	1592.57	43.92	-8.38	52.30	74.00	30.08	VERTICAL	Peak
3	2120.17	44.38	-5.70	50.08	74.00	29.62	VERTICAL	Peak
4	2656.33	41.60	-4.60	46.20	74.00	32.40	VERTICAL	Peak
5	3196.09	43.53	-2.80	46.33	74.00	30.47	VERTICAL	Peak
6	16504.96	52.67	20.18	32.49	74.00	21.33	VERTICAL	Peak

## 5. Test Setup Photos of the EUT

Conducted Emission (AC Mains)



Radiated Emission (30MHz-1GHz)



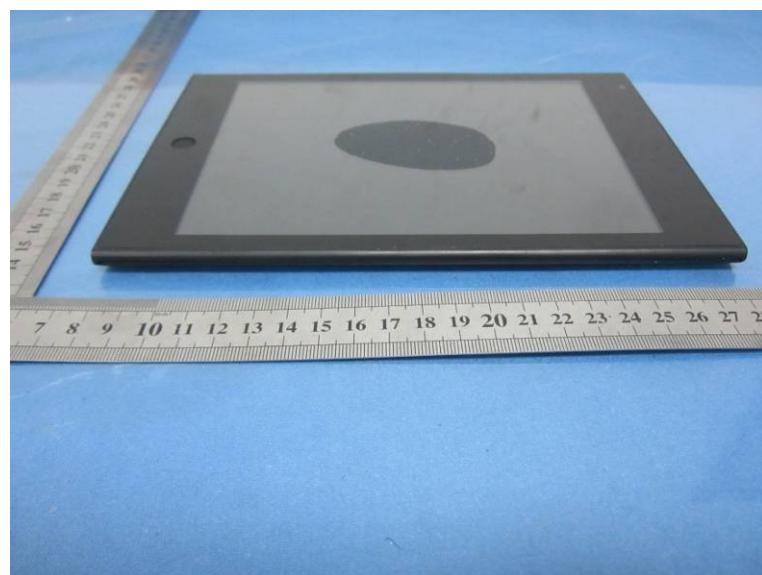
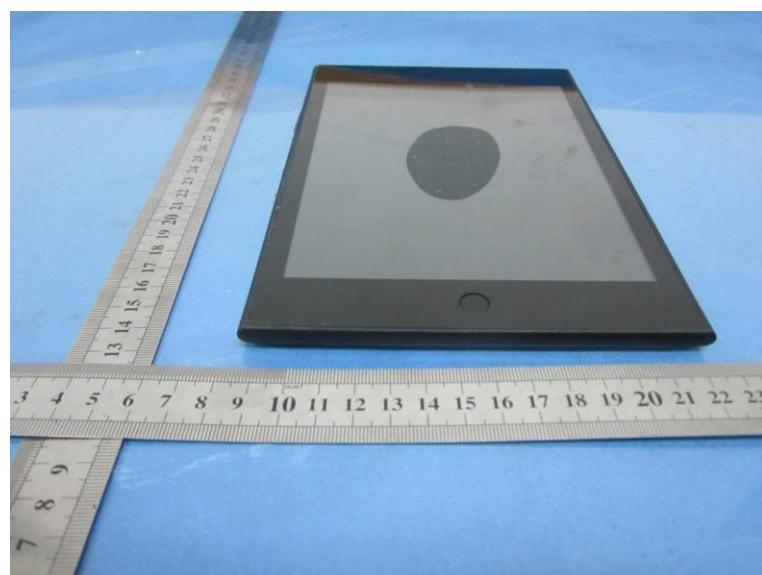
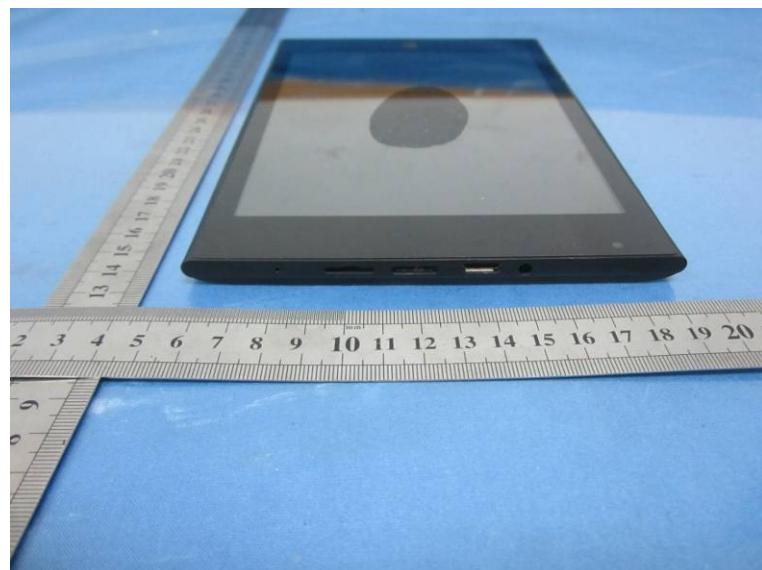
Radiated Emission (1GHz-6GHz)

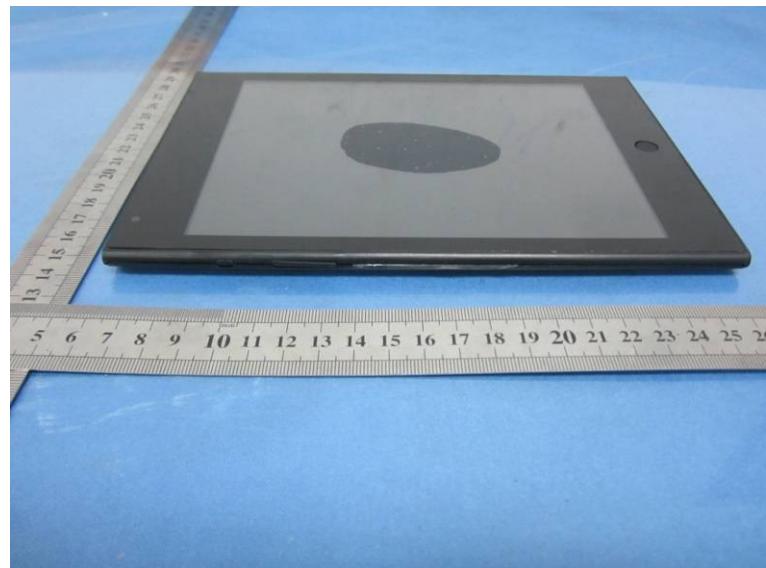


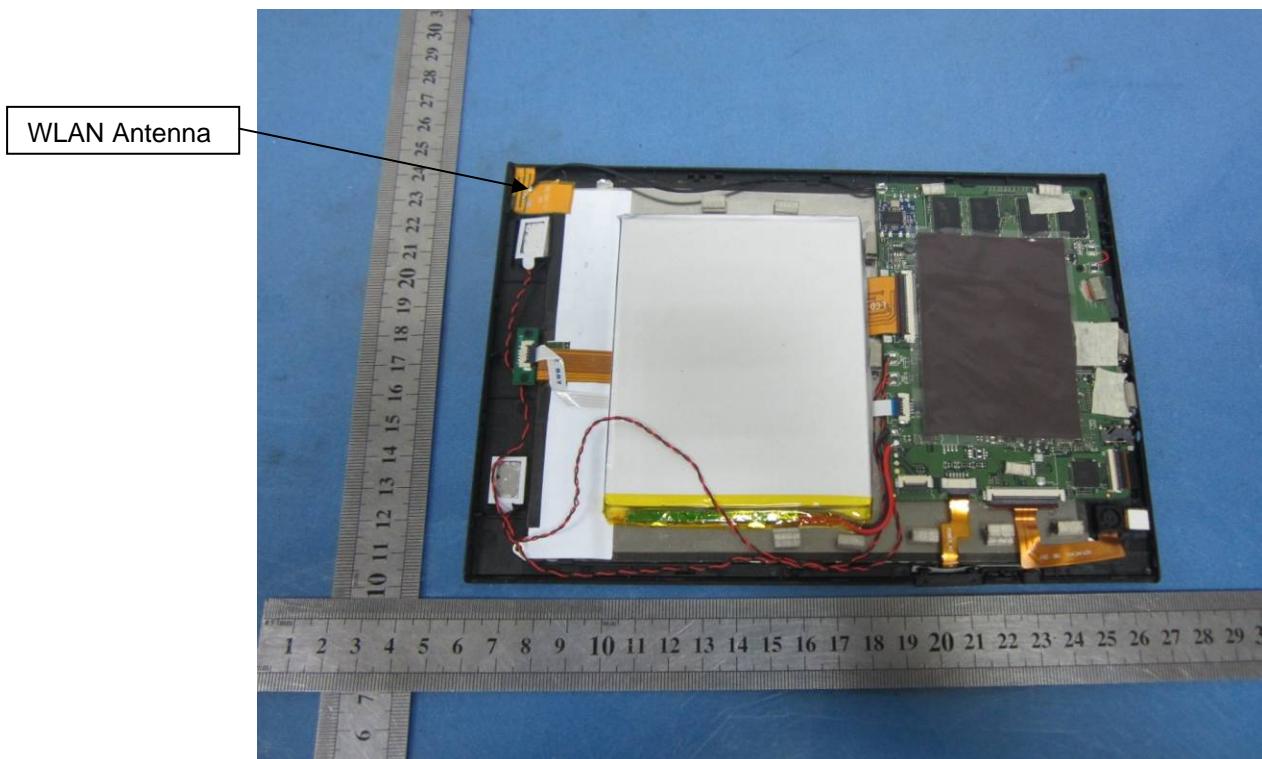
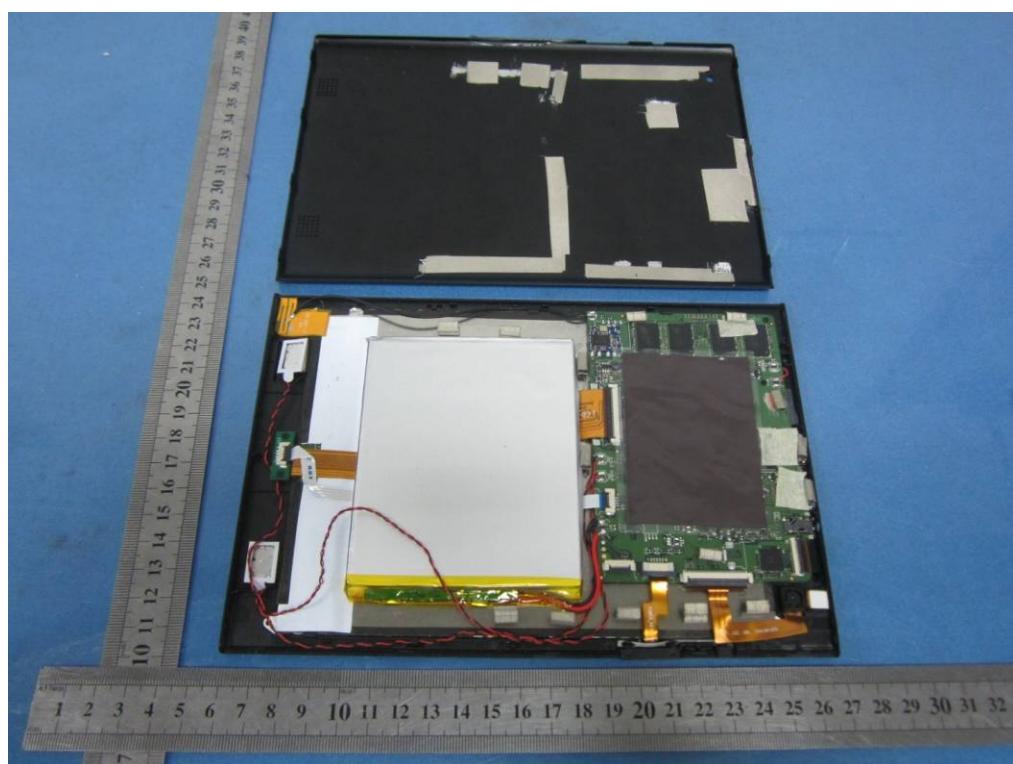
## 6. External and Internal Photos of the EUT

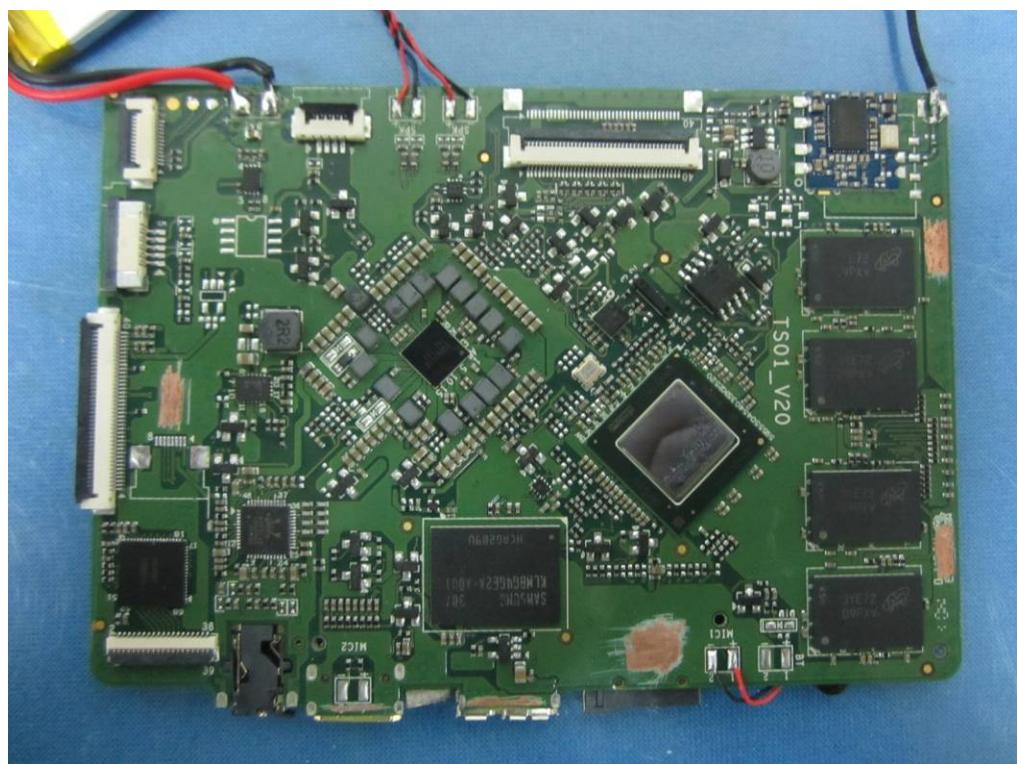
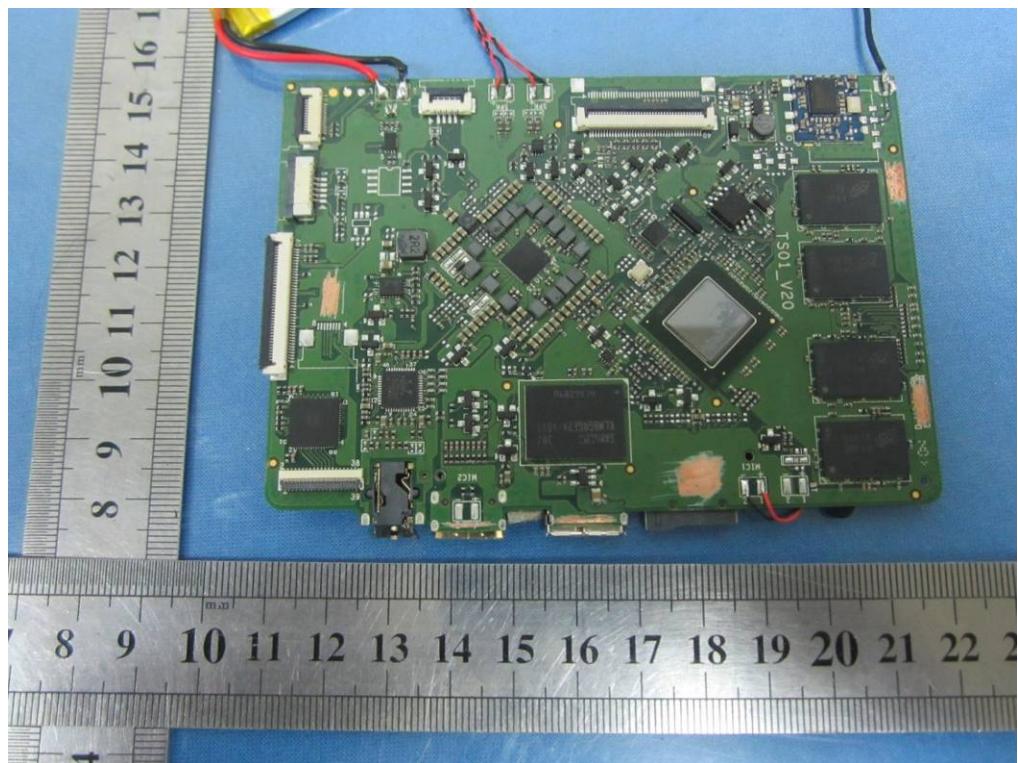
### External Photos

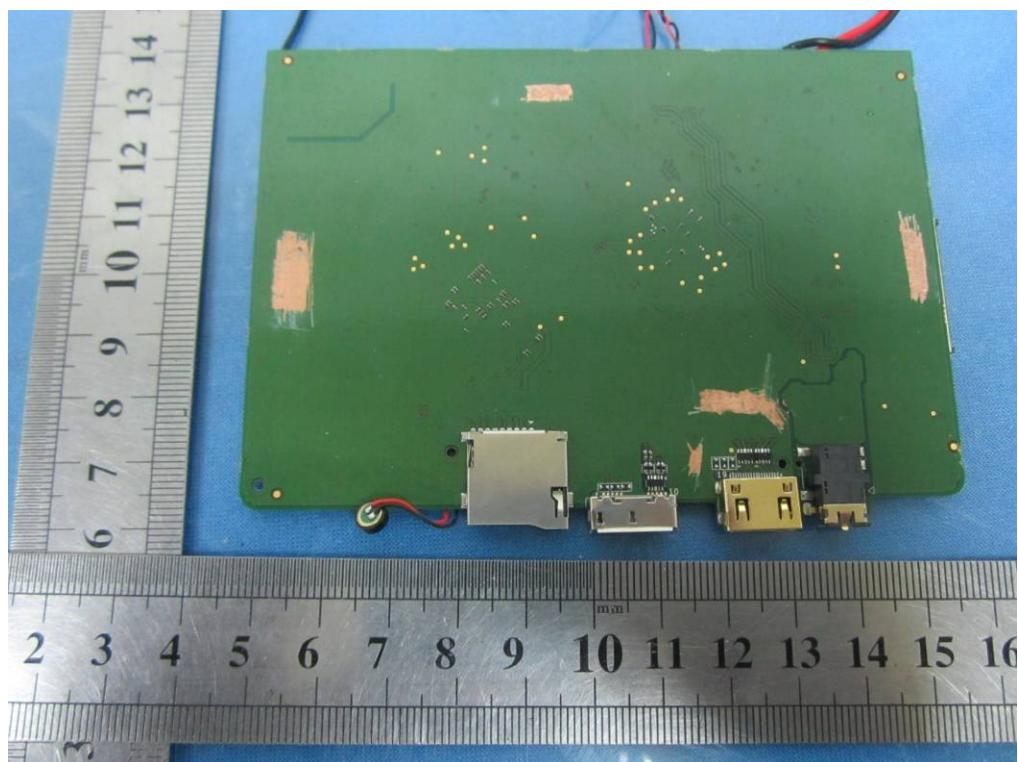
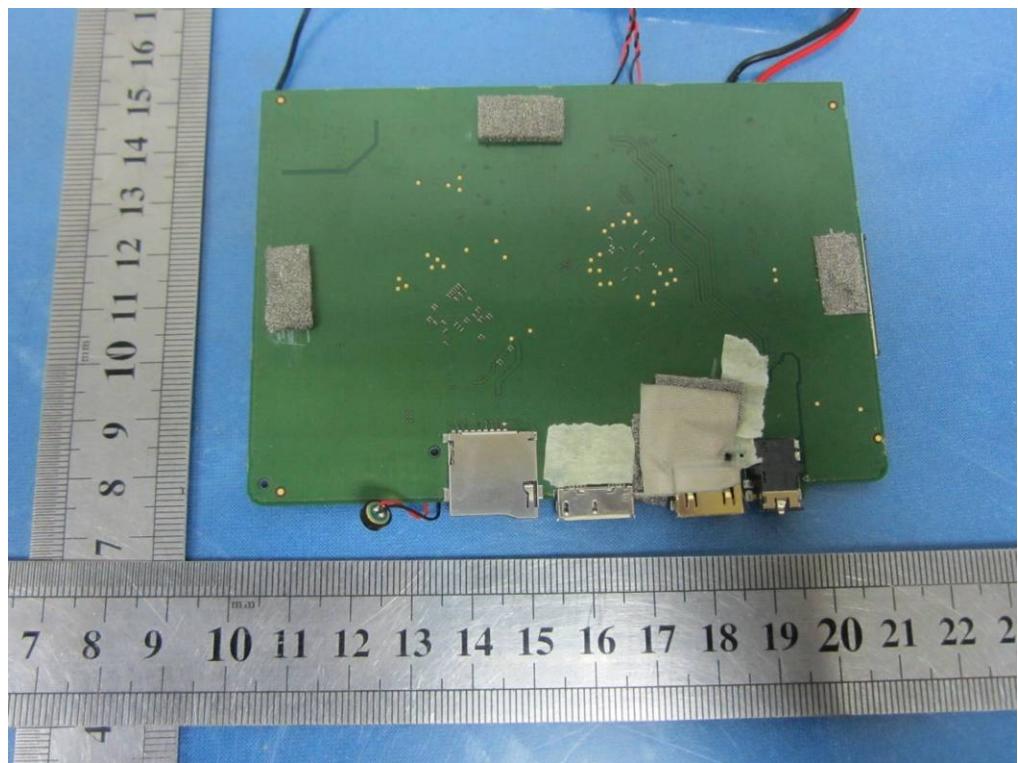






Internal Photos





.....End of Report.....