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ISO/IEC17025 Accredited Lab.

Report No.: FCC1404236-03

File reference No.: 2014-05-10

Applicant: ValueChain LLC

Product: Tablet PC

Model No.: VP111, VP112, A700, A729, A761, M7011, M7012, M7015, M7016, M7018, M7019, M7028, M7030, M7801, M7806, M7808, A806, M8016, M8018, A960, M9006, M9008, M9701, M9705, M9708, M970X, M1006, M1025, M101X, M116X, M133X

Trademark: N/A

Test Standards: FCC Part 15 Subpart B: 2012

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

*Jack Chung*

Jack Chung

Manager

Dated: May 10, 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 (+86 755)8344 8688 Fax (+86 755)8344 2996 Email:info@timewaytech.com



## Special Statement:

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

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**

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-02.

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## Test Report Conclusion

### Content

<b>1.0</b>	<b>General Details</b>	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Test Uncertainty	4
1.5	Submitted Sample	4
1.6	Test Duration	4
<b>2.0</b>	<b>List of Measurement Equipment</b>	5
2.1	Conducted Emission Test	5
2.2	Radiated electromagnetic disturbance test	5
2.3	Auxiliary Equipment	5
<b>3.0</b>	<b>Technical Details</b>	6
3.1	Investigations Requested	6
3.2	Test Standards	6
<b>4.0</b>	<b>Power line Conducted Emission Test</b>	7
<b>5.0</b>	<b>Radiated Disturbance Test</b>	11
<b>6.0</b>	<b>FCC ID Label</b>	18
<b>7.0</b>	<b>Photo of testing</b>	19

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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: ValueChain LLC  
Address: 14110 Rock Dove Ln, Houston, TX 77044, USA  
Telephone: --  
Fax: --

### 1.3 Description of EUT

Product: Tablet PC  
Manufacturer: Shenzhen BoHair Technology Co., Ltd.  
Address: 6/F, Building B, Dadan Technical Park, Jihua Rd., Buji Town, Longgang Dist, Shenzhen, China  
Brand Name: N/A  
Model Number: VP111  
Additional Model Number: VP112, A700, A729, A761, M7011, M7012, M7015, M7016, M7018, M7019, M7028, M7030, M7801, M7806, M7808, A806, M8016, M8018, A960, M9006, M9008, M9701, M9705, M9708, M970X, M1006, M1025, M101X, M116X, M133X  
Power Adapter: LJS-186 Input: 100-240V AC, 50/60Hz, 0.3A; Output: 5V, DC2A

### 1.4 Submitted Sample: 2 Sample

### 1.5 Test Duration: 2014-04-26 to 2014-05-09

### 1.6 Test Uncertainty

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

### 1.7 Test Engineer

The sample tested by

Print Name: Terry Tong

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## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2013-08-23	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2013-08-23	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

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

### 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC DOC/ ID
Monitor	P2450	--	SAMSUNG	Data cable of 0.8m length	FCC DOC
U-disk	U208	--	Netac	--	FCC DOC
SD	--	--	Kingston	--	FCC DOC
PC	R400	--	IBM	--	FCC DOC
Mouse	M-F105	--	L.SEletron	--	FCC DOC
Passive Earphone	--	--	--	--	FCC VOC

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### 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: 2012**

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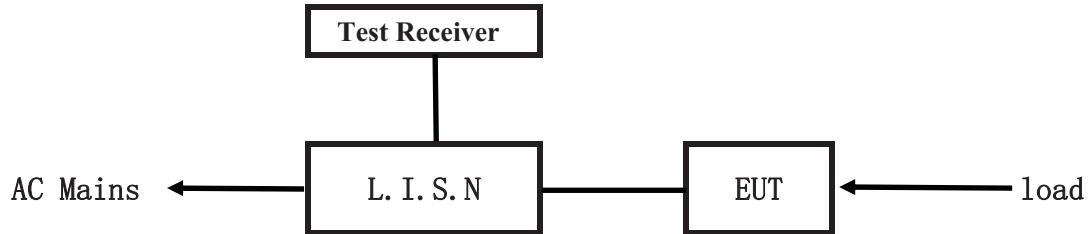
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## 4.0 Conducted Power line Test

## 4.1 Schematics of the test



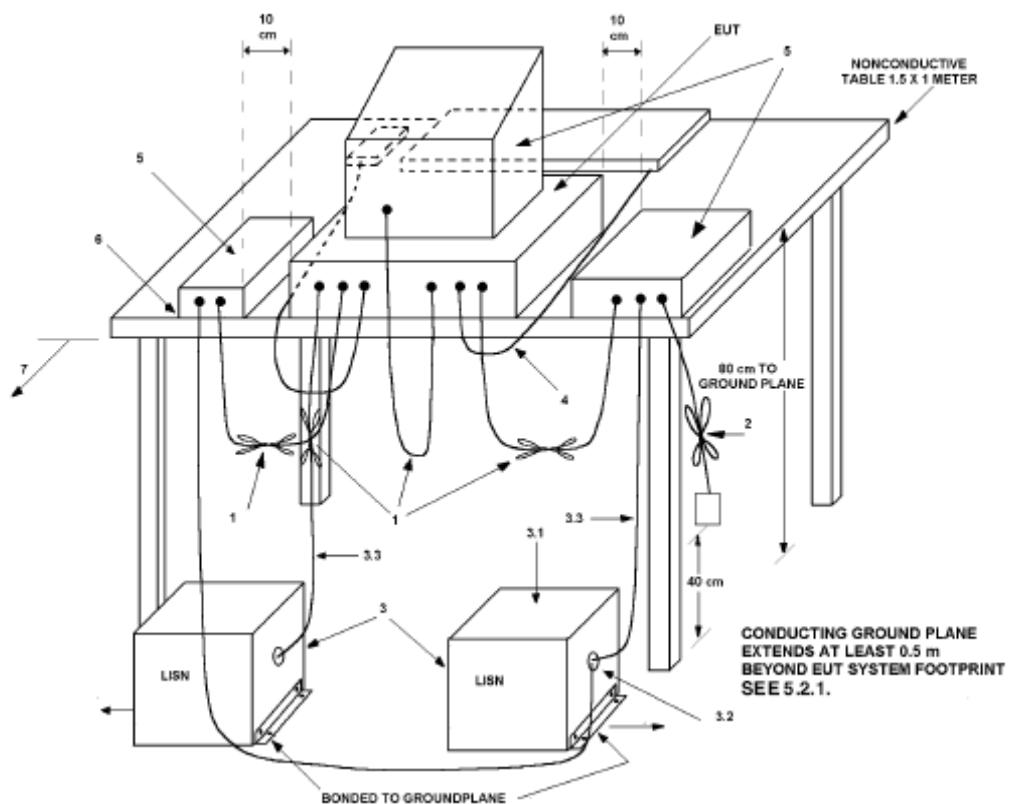
## EUT: Equipment Under Test

## 4.2 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.

Actual Working Voltage and Frequency: 120V~, 60Hz

### Block diagram of Test setup



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#### 4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 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

#### 4.4 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: Communication with PC**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level dBuV	Factor dB	ment dBuV				
1		0.1587	40.30	11.01	51.31	65.53	-14.22	QP	
2		0.1587	1.50	11.01	12.51	55.53	-43.02	AVG	
3	*	0.1710	42.60	11.02	53.62	64.91	-11.29	QP	
4		0.1710	13.20	11.02	24.22	54.91	-30.69	AVG	
5		0.4767	27.50	11.35	38.85	56.40	-17.55	QP	
6		0.4767	3.20	11.35	14.55	46.40	-31.85	AVG	

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

**EUT Operating Environment**

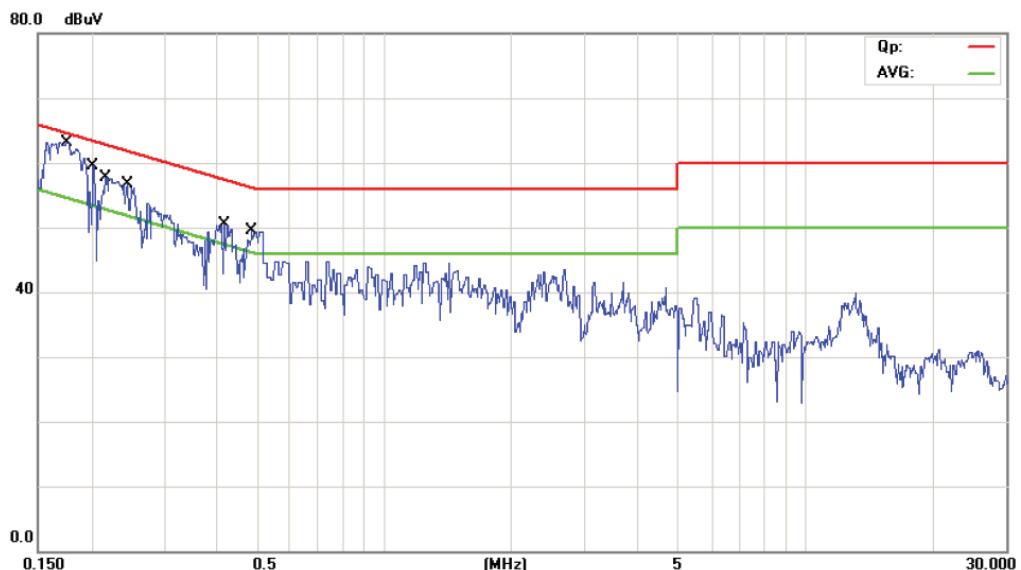
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Communication with PC**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		Comment
			Level	Factor	ment		dB	dBuV	
1	*	0.1740	48.20	11.03	59.23	64.77	-5.54	QP	
2		0.1740	14.20	11.03	25.23	54.77	-29.54	AVG	
3		0.2030	30.50	11.06	41.56	63.49	-21.93	QP	
4		0.2030	-5.60	11.06	5.46	53.49	-48.03	AVG	
5		0.2173	39.20	11.07	50.27	62.92	-12.65	QP	
6		0.2173	3.60	11.07	14.67	52.92	-38.25	AVG	
7		0.2420	36.60	11.10	47.70	62.03	-14.33	QP	
8		0.2420	2.20	11.10	13.30	52.03	-38.73	AVG	
9		0.4166	30.70	11.28	41.98	57.52	-15.54	QP	
10		0.4166	2.20	11.28	13.48	47.52	-34.04	AVG	
11		0.4844	30.50	11.35	41.85	56.26	-14.41	QP	
12		0.4844	3.40	11.35	14.75	46.26	-31.51	AVG	

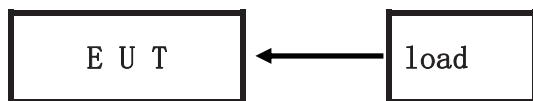
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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

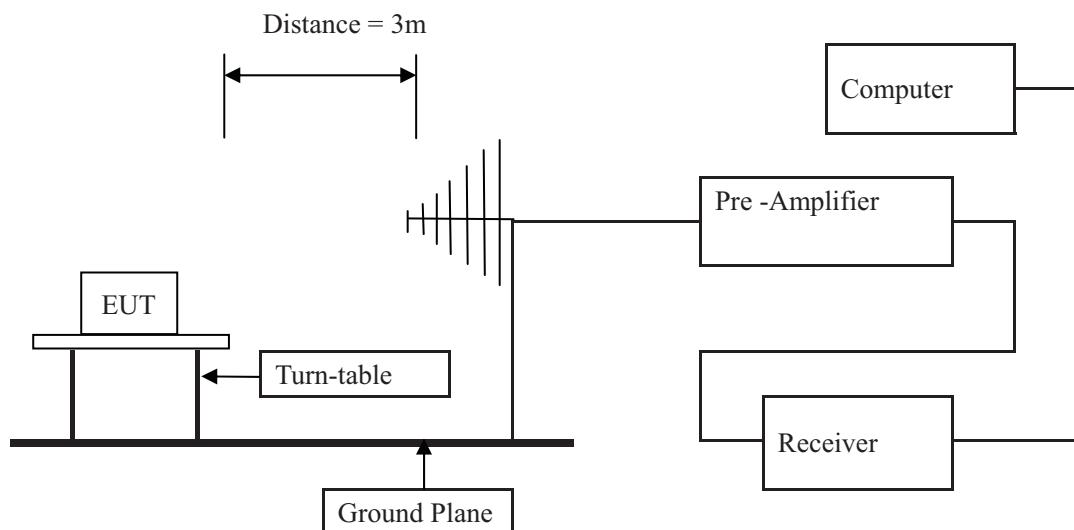


### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 18GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

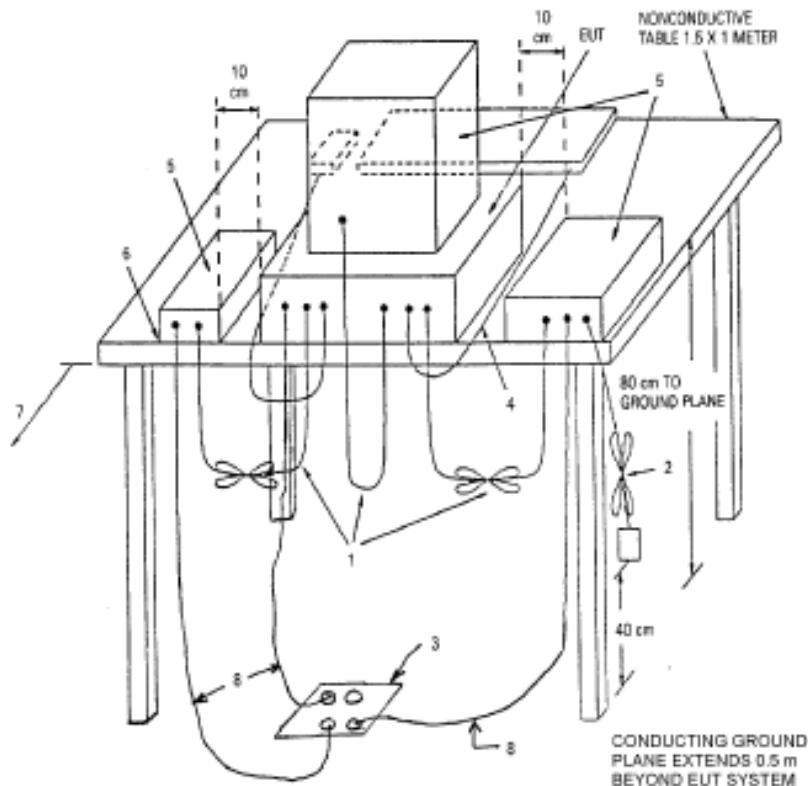
#### Block diagram of Test setup



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### 5.3 Radiated Emission Limit

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

Note: 1. The lower limit shall apply at the transition frequencies

2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand). After pre-test. It was found that the worse radiated emission was get at the lying position.

### 5.4 Test result

The frequency spectrum from 30MHz to 18GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)**

**EUT set Condition: Communication with PC**

**Results:** **Pass**

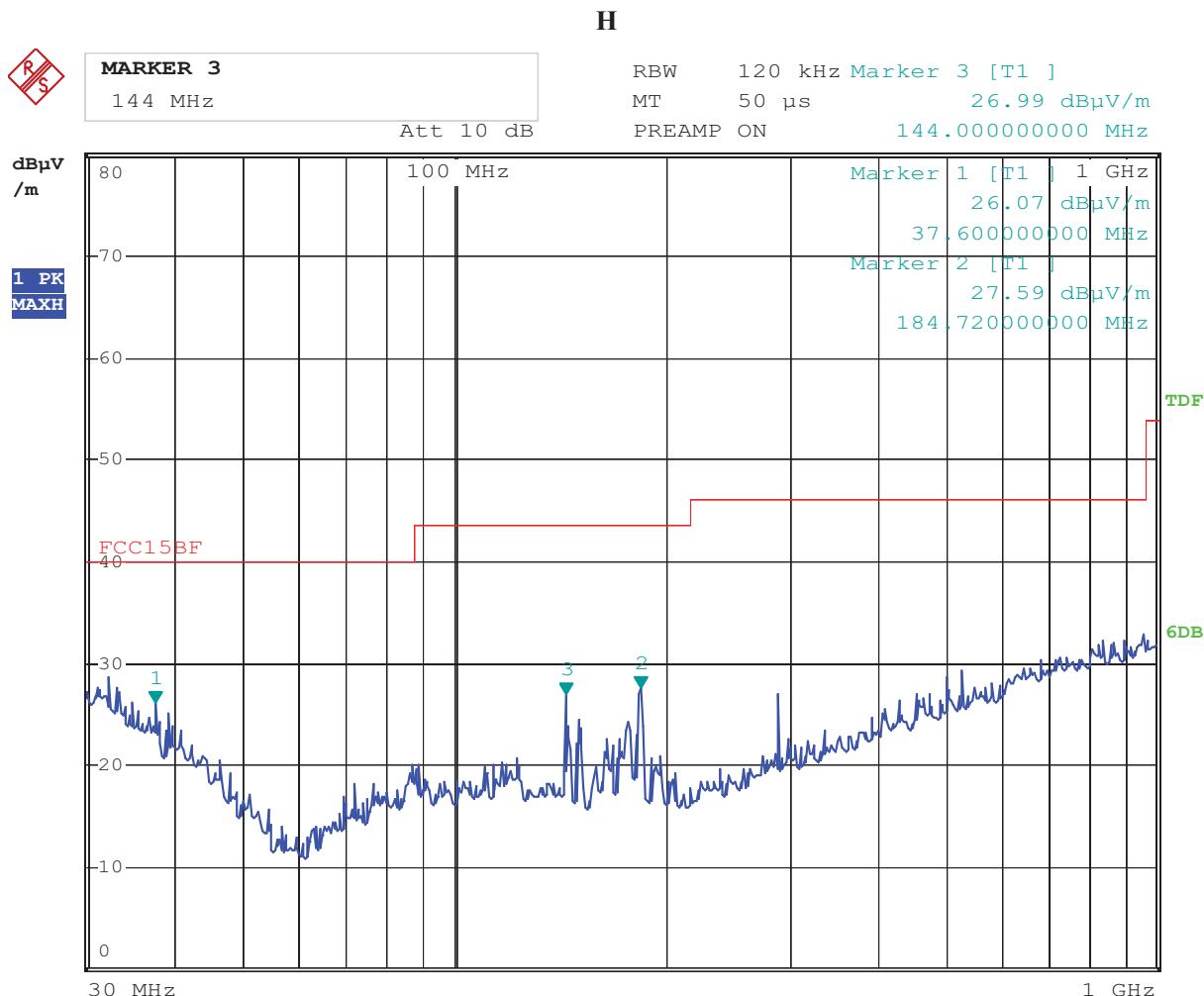
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
37.600	26.07	H	40.00
184.720	27.59	H	43.50
144.000	26.99	H	43.50
32.200	28.93	V	40.00
336.000	31.06	V	46.00
151.600	24.43	V	43.50

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Test Figure:



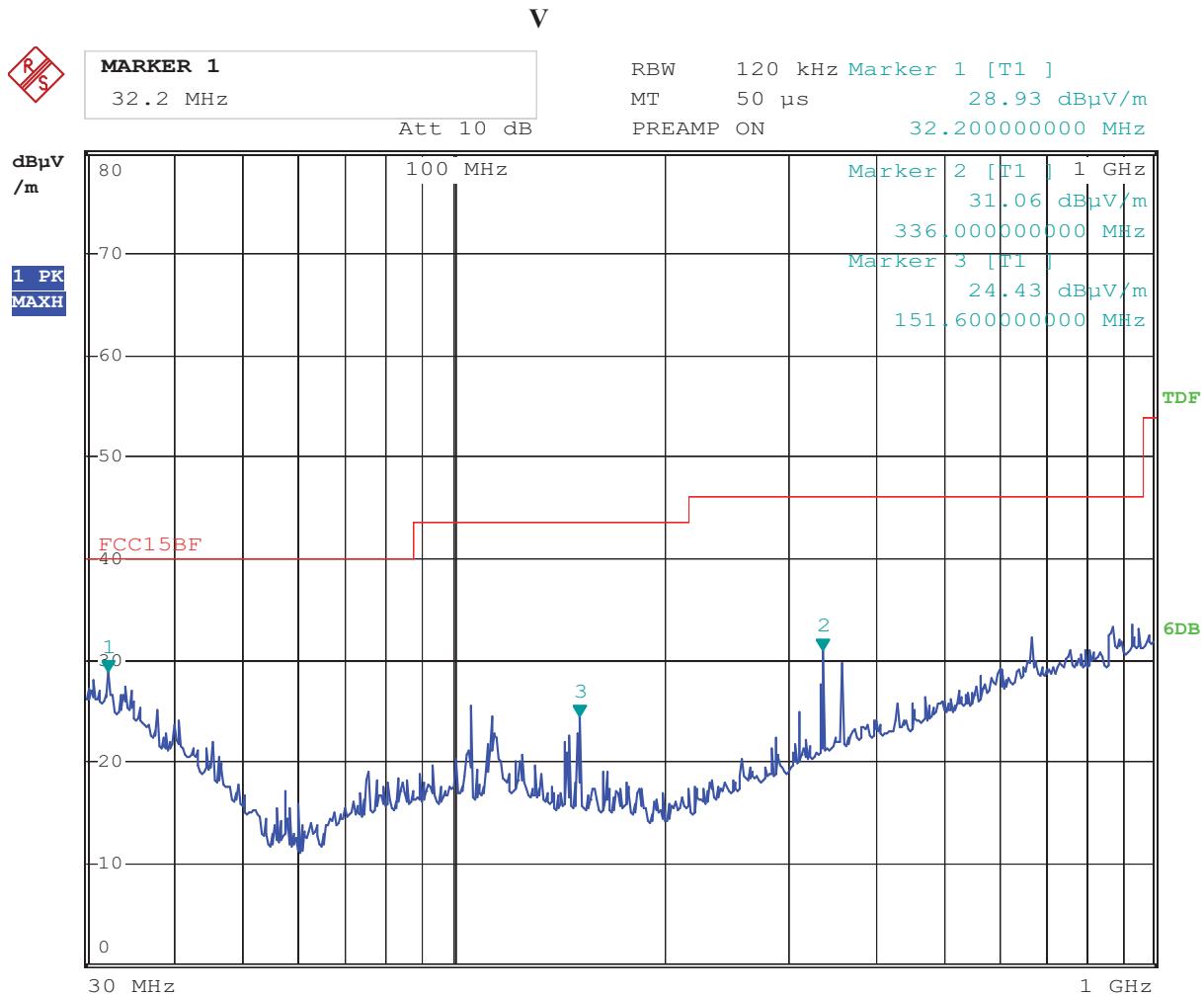
Date: 28.APR.2014 16:29:20

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Test Figure:



Date: 28.APR.2014 16:30:01

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### Radiated Disturbance (1000MHz----18000MHz)

#### EUT Operating Environment

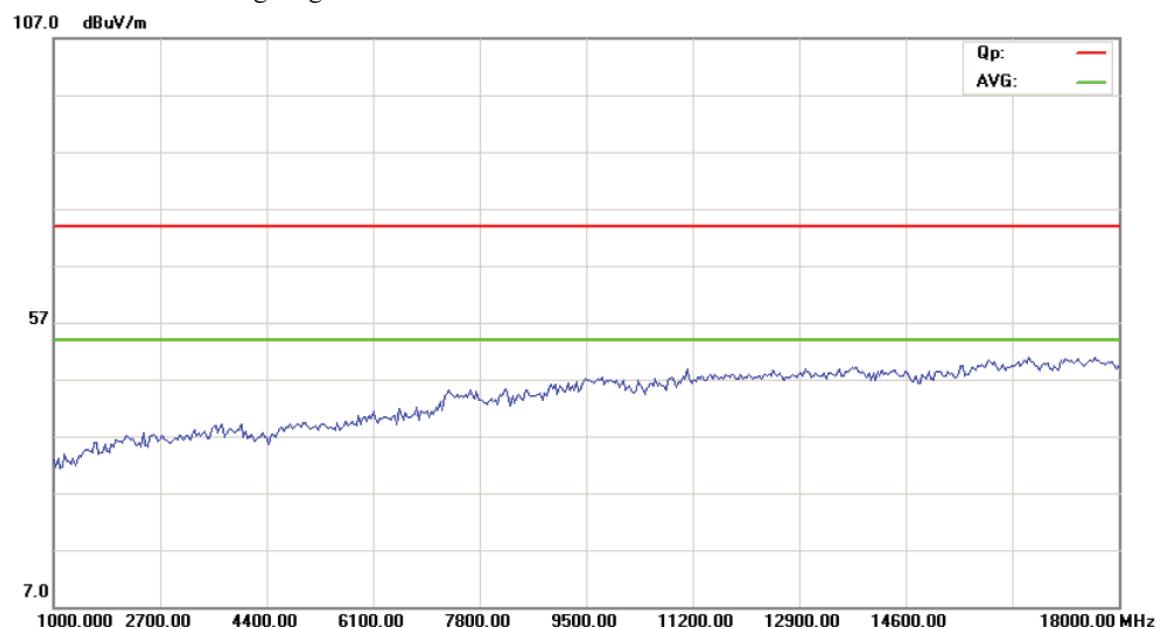
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

#### EUT set Condition: Communication with PC

#### Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)
--	--	H	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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### Radiated Disturbance (1000MHz----18000MHz)

#### EUT Operating Environment

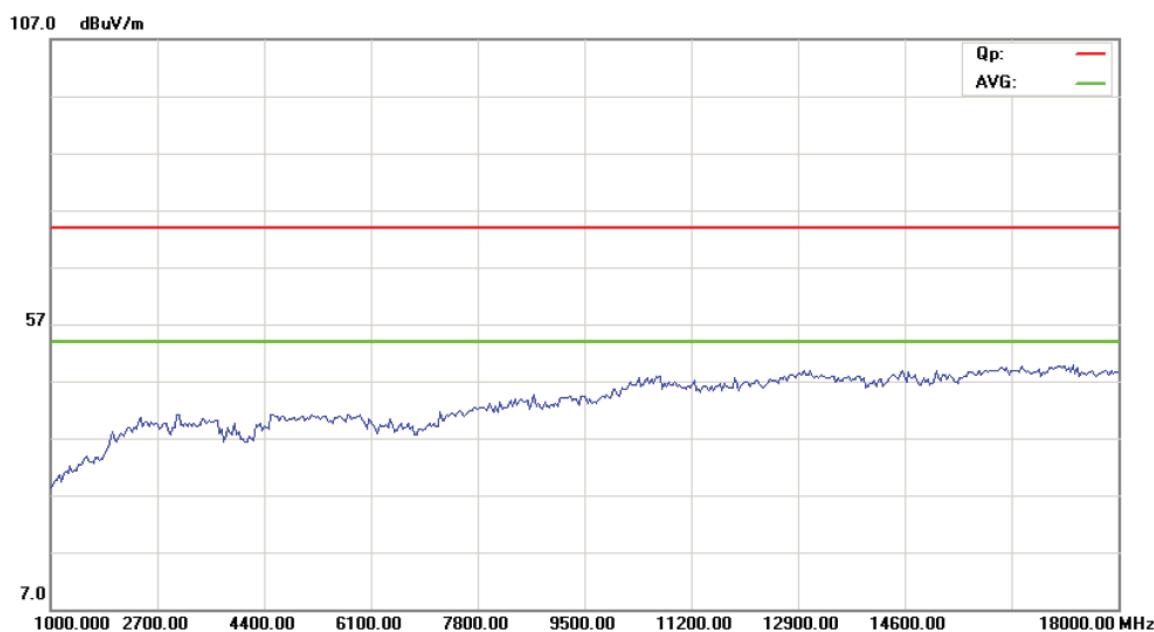
Temperature:25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

#### EUT set Condition: Communication with PC

#### Equipment Level: Class B

#### Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
--	--	V	54(AV)
--	--	V	54(AV)
--	--	V	54(AV)

Note: Due to the final radiated level much less than the limit, so necessary take down final radiated level

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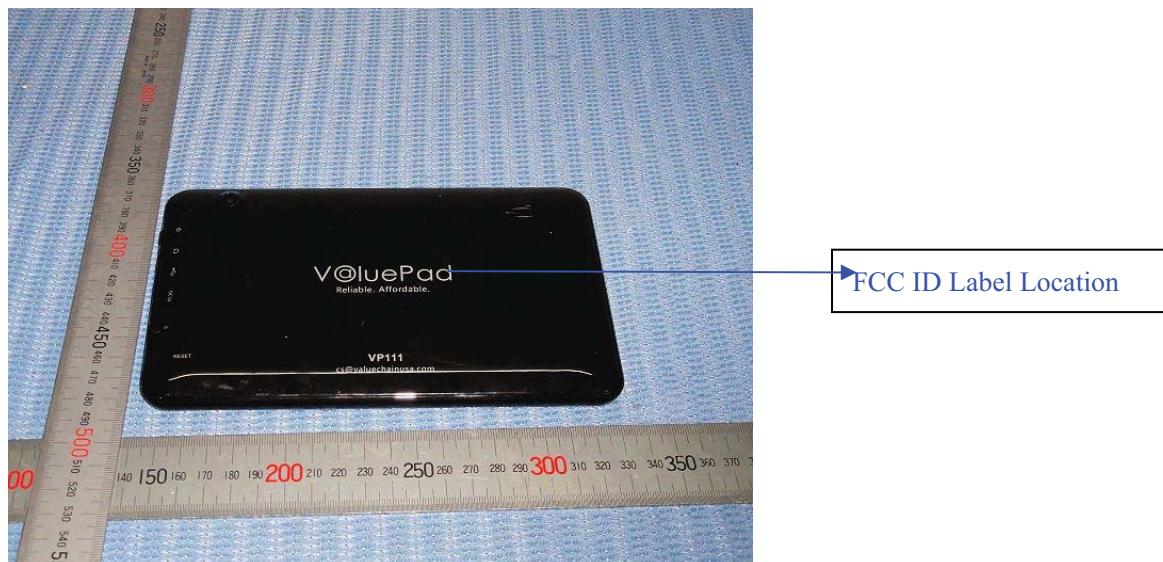
## 6.0 FCC ID Label

**FCC ID: 2ACA3-SZBCF888**

**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:



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7.0 Photo of testing

7.1 Conducted test View--

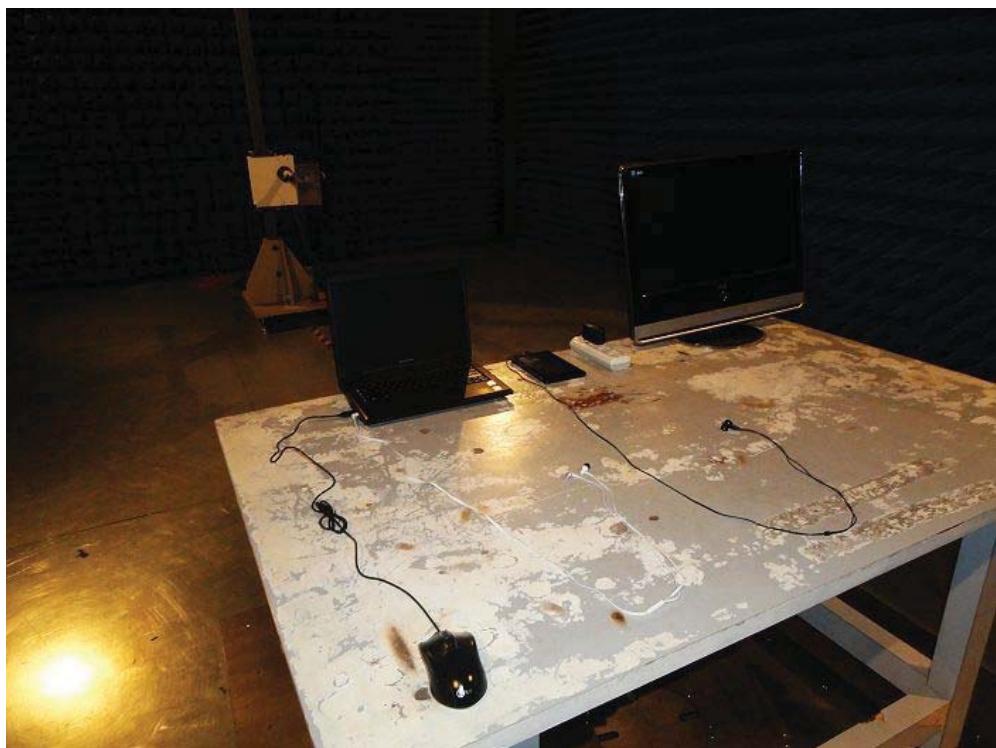


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7.2 Radiated emission test view--



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Photo for the EUT

Photo for the EUT



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**Photos of EUT**



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**Photos of EUT**

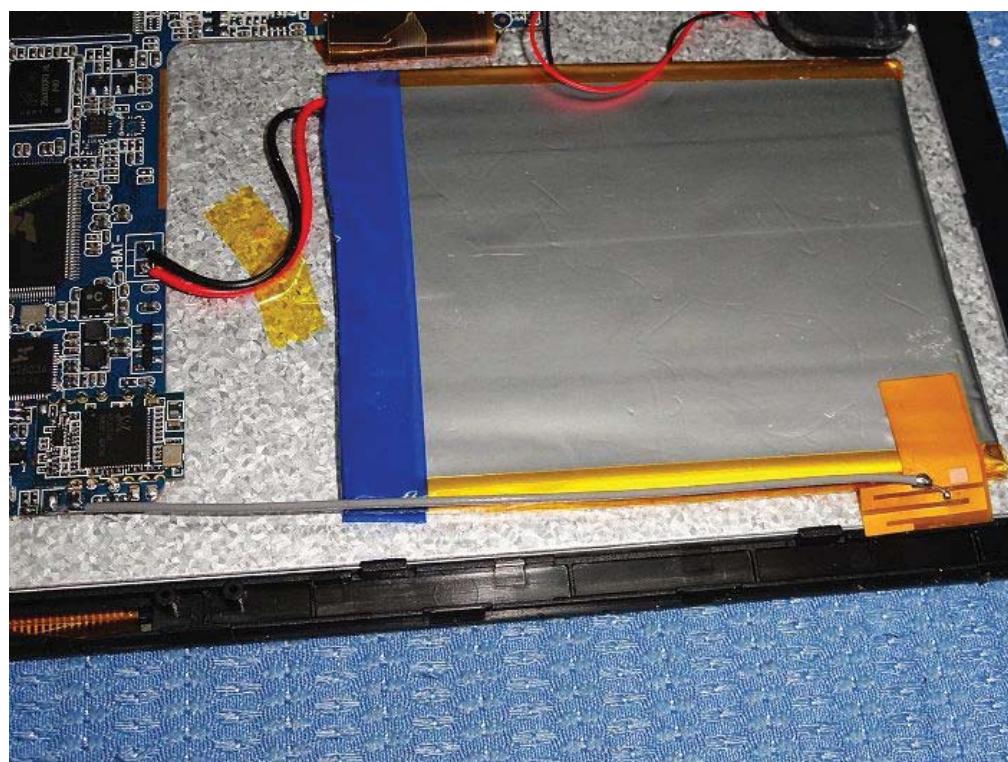


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**Photos of EUT**

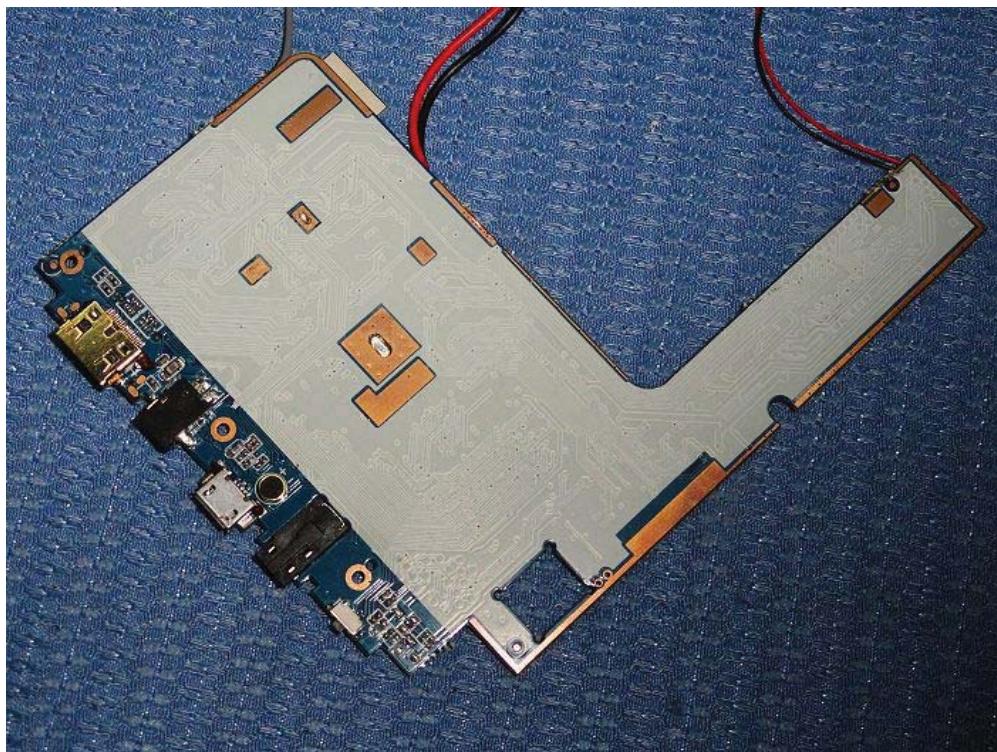
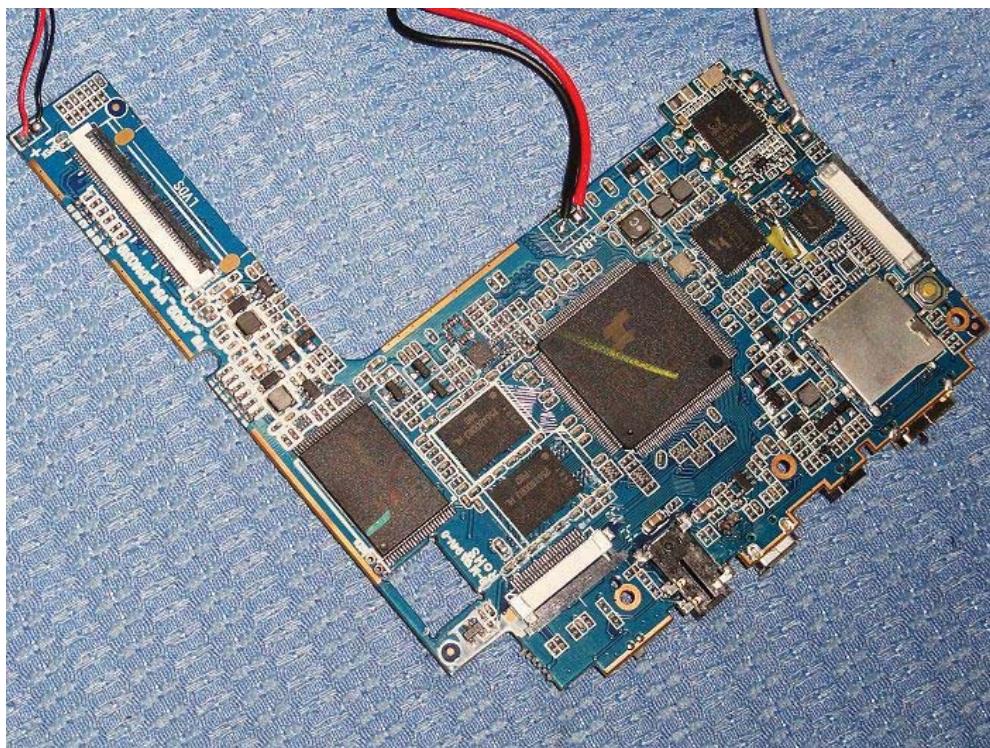


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**Photos of EUT**

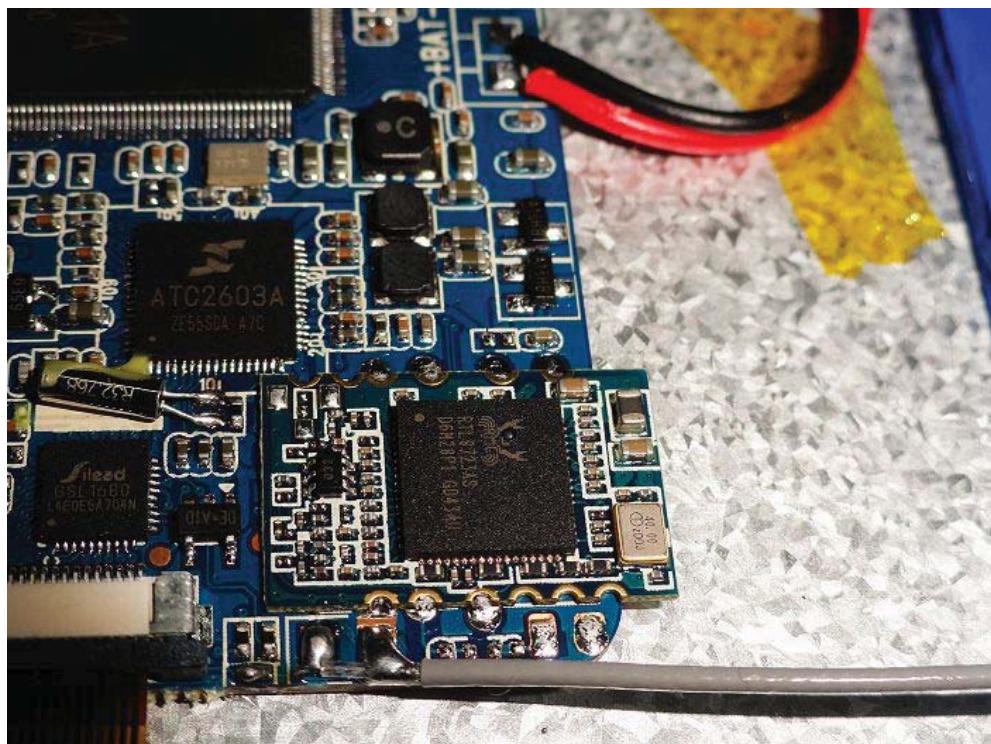


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**Photos of EUT**



**-End of the report-**

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