



Report No: FCC1706169-03

File reference No: 2017-07-10

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Product: Tablet PC

Model No: ST7150, P7100, EM795, T7000, M710R

Trademark: Smartab, Polaroid, Emerson, Packard Bell

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

*Jack Chung*

Jack Chung

Manager

Dated: July 10, 2017

**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 TESTING LABORATORIES**

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail: info@timeway-lab.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.

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Test Report Conclusion  
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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone, Futian District,Shenzhen, Guangdong China  
Telephone: (755) 83448688  
Fax: (755) 83442996

### 1.2 Applicant Details

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.  
Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China  
Telephone: --  
Fax: --

### 1.3 Description of EUT

Product: Tablet PC  
Manufacturer: Shenzhen Jingwah Information Technology Co., Ltd.  
Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China  
Brand Name: Smartab, Polaroid, Emerson, Packard Bell  
Model Number: ST7150  
Additional Model Number: P7100, EM795, T7000, M710R

### 1.4 Submitted Sample: 2 Samples

### 1.5 Test Duration: 2017-06-19 to 2017-07-08

### 1.6 Test Uncertainty

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

### 1.7 Test Engineer

The sample tested by

A handwritten signature in black ink, which appears to read "Terry Tong".

Print Name: Terry Tong

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Remark: There are alternative manufacturers for USB cable, DDR and EMMC. EUT are configured as following

| Name                | Manufacturer                                 | Model        |
|---------------------|--|--------------|
| <b>Configure a)</b> |  |              |
| DDR                 | PSC  | P3P2GF3BLF   |
| EMMC                | FORESEE                                      | NCEMBSF9-16G |
| USB Cable           | Shenzhen Xinhuai Ronghui Technology Co.,Ltd. | --           |
|                     | DongGuan MinTai Electronic Co.,LTD           | --           |
| <b>Configure b)</b> |  |              |
| DDR                 | Spectek                                      | PE959-12K    |
| EMMC                | FORESEE                                      | NCEMAD6B-16G |
| USB Cable           | Shenzhen Xinhuai Ronghui Technology Co.,Ltd. | --           |
|                     | DongGuan MinTai Electronic Co.,LTD           | --           |

**Note: Configure a) and b) are tested and only worse case are recorded in the test report**

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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           | 2016.08.22       | 1 Year            |
| Spectrum Analyzer | ESA-L1500A | US37451154 | HP           | 2016.08.22       | 1 Year            |
| PULSE LIMITER     | ESH3-Z2    | 100281     | RS           | 2016.08.22       | 1 Year            |
| LISN              | ESH3-Z5    | 100294     | RS           | 2016.08.22       | 1 Year            |
| LISN              | ESH3-Z5    | 100253     | RS           | 2016.08.22       | 1 Year            |

### 2.2 Radiated electromagnetic disturbance test

| Name              | Model No.  | Serial No.  | Manufacturer | Calibration Date | Calibration Cycle |
|-------------------|------------|-------------|--------------|------------------|-------------------|
| EMI Test Receiver | ESVD       | 100008      | RS           | 2016.08.22       | 1 Year            |
| Coaxial Switch    | MP59B      | M70585      | ANRITSU      | N/A              | N/A               |
| Amplifier         | 8447D      | 2727A05017  | HP           | 2016.08.22       | 1 Year            |
| Bilog Antenna     | VULB9163   | 9163/340    | Schwarebeck  | 2016.08.23       | 1 Year            |
| Horn Antenna      | BBHA 9120D | 9120D-631   | Schwarebeck  | 2016.08.24       | 1 Year            |
| Horn Antenna      | BBHA 9170  | BBHA9170265 | Schwarebeck  | 2016.08.24       | 1 Year            |
| Test Receiver     | ESI26      | 838786/013  | RS           | 2016.08.22       | 1 Year            |

### 2.3 Auxiliary Equipment

| Name             | Model No. | Serial No. | Manufacturer | Cable | FCC DOC/ ID |
|------------------|-----------|------------|--------------|-------|-------------|
| Passive Earphone | --        | --         | --           | --    | --          |
| Mouse            | M-F105    | --         | L.SEletron   | --    | FCC DOC     |
| TF               | --        | --         | --           | --    | --          |
| USB              | --        | --         | Kingstone    | --    | FCC DOC     |
| PC               | R4        | --         | IBM          |       | FCC DOC     |

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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**

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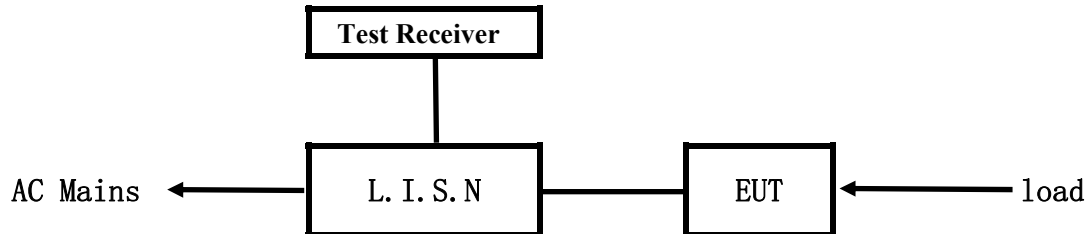
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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



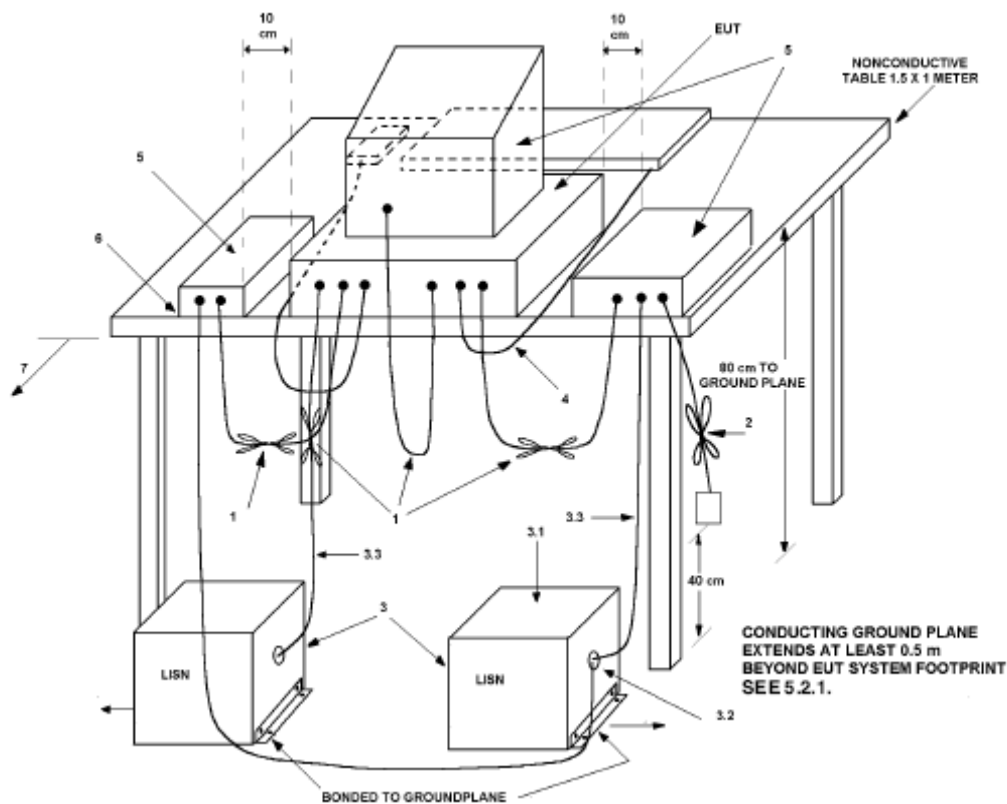
EUT: Equipment Under Test

##### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. 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 –2014. 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**

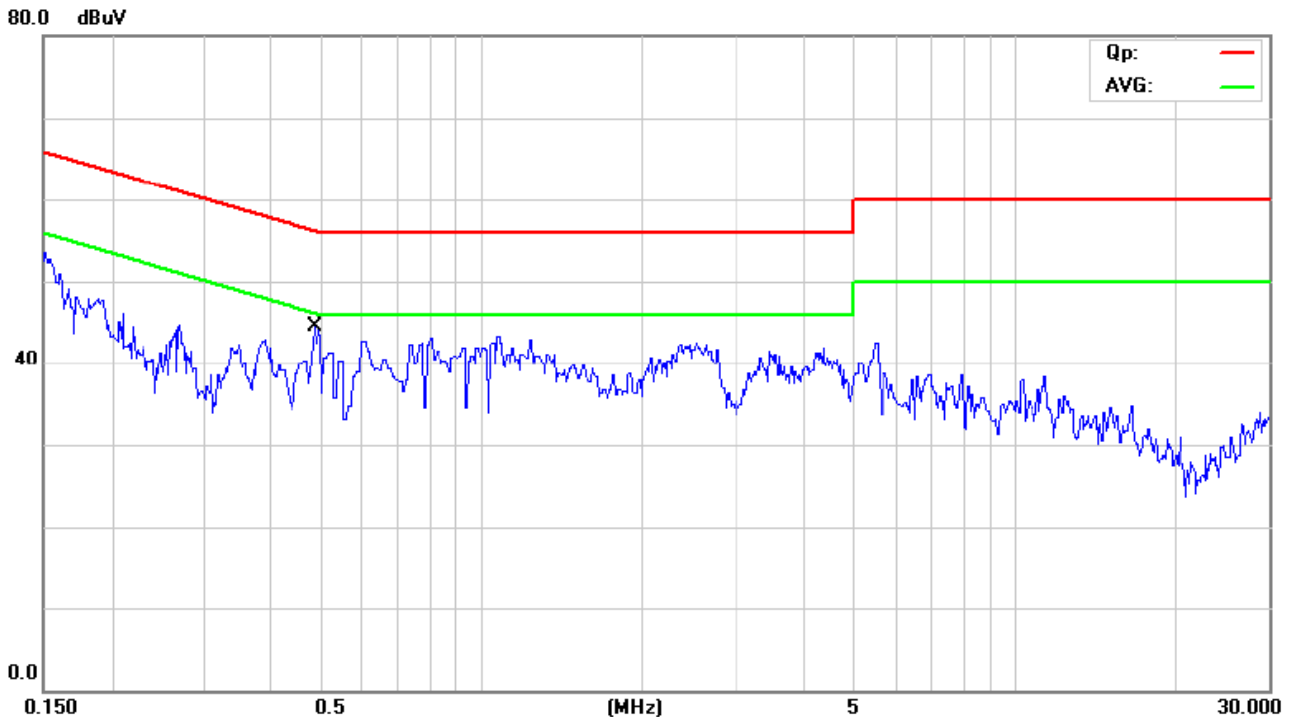
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication with PC**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



| No. | Mk. | Freq.  | Reading | Correct | Measure- | Limit | Over   |          |         |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|---------|
|     |     | MHz    | dBuV    | Factor  | ment     | dBuV  | dB     | Detector | Comment |
| 1   | *   | 0.4850 | 27.70   | 10.26   | 37.96    | 56.25 | -18.29 | QP       |         |
| 2   |     | 0.4850 | 11.70   | 10.26   | 21.96    | 46.25 | -24.29 | AVG      |         |

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

**EUT Operating Environment**

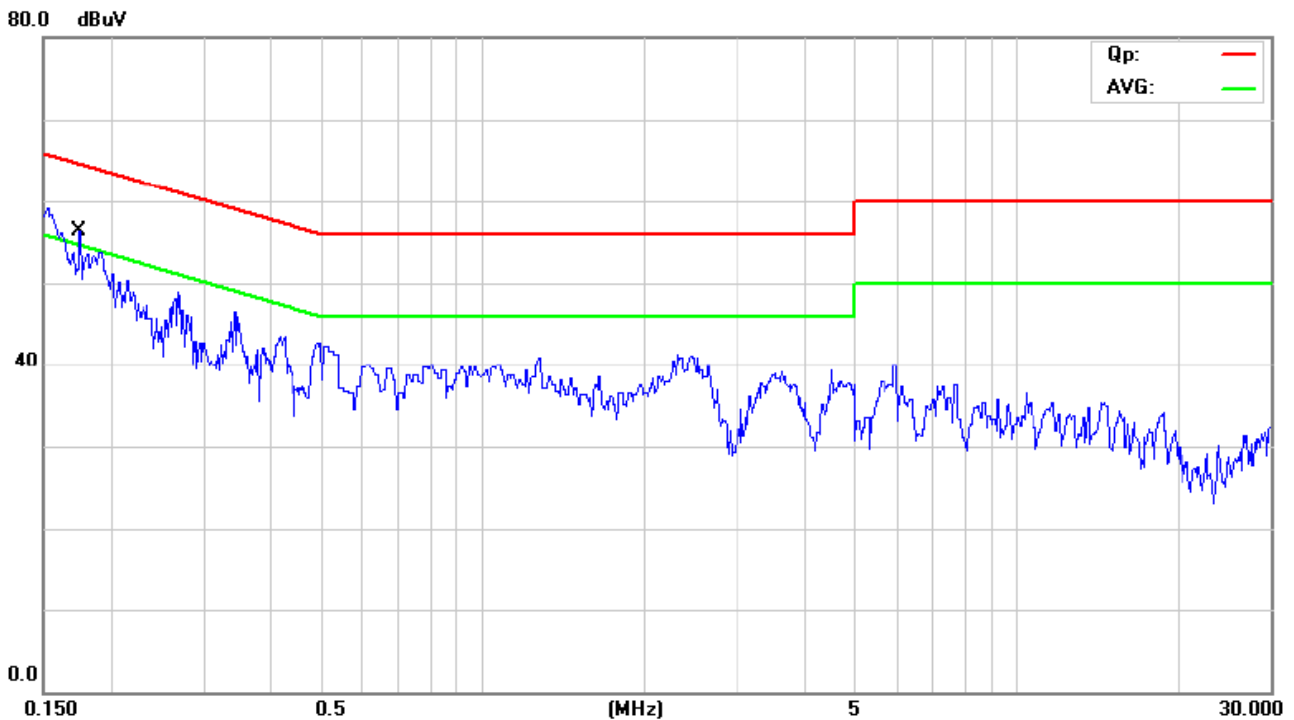
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication with PC**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   | *   | 0.1748 | 30.30         | 9.87           | 40.17       | 64.73 | -24.56 | QP       |         |
| 2   |     | 0.1748 | 5.10          | 9.87           | 14.97       | 54.73 | -39.76 | AVG      |         |

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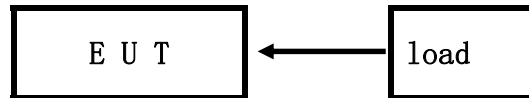
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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

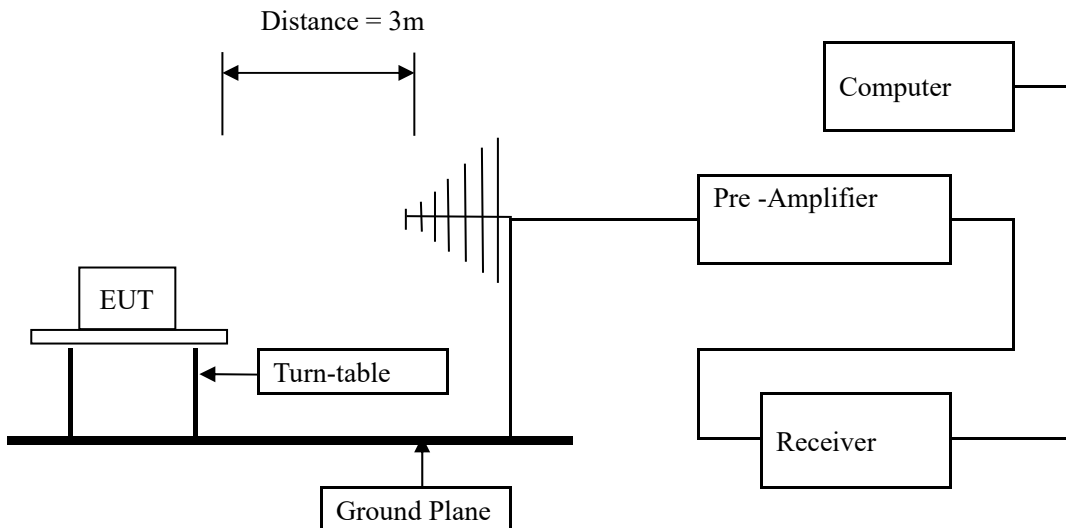


### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4-2014; 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

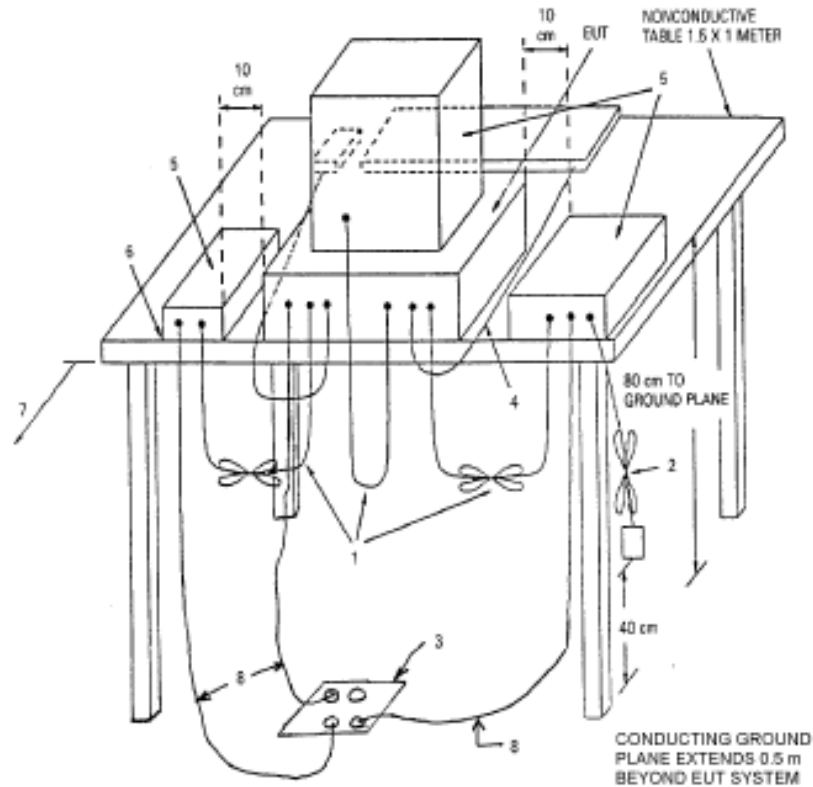
#### Block diagram of Test setup



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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: The lower limit shall apply at the transition frequencies

### 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) |
|-----------------|-------------------------|------------------|-------------------------|
| 137.080         | 37.34                   | H                | 43.50                   |
| 822.480         | 40.75                   | H                | 46.00                   |
| 182.760         | 37.91                   | H                | 43.50                   |
| 359.960         | 37.84                   | H                | 46.00                   |
|                 |                         |                  |                         |
| 171.320         | 29.08                   | V                | 43.50                   |
| 822.480         | 40.55                   | V                | 46.00                   |
| 360.000         | 34.64                   | V                | 46.00                   |
| 137.080         | 35.01                   | V                | 43.50                   |

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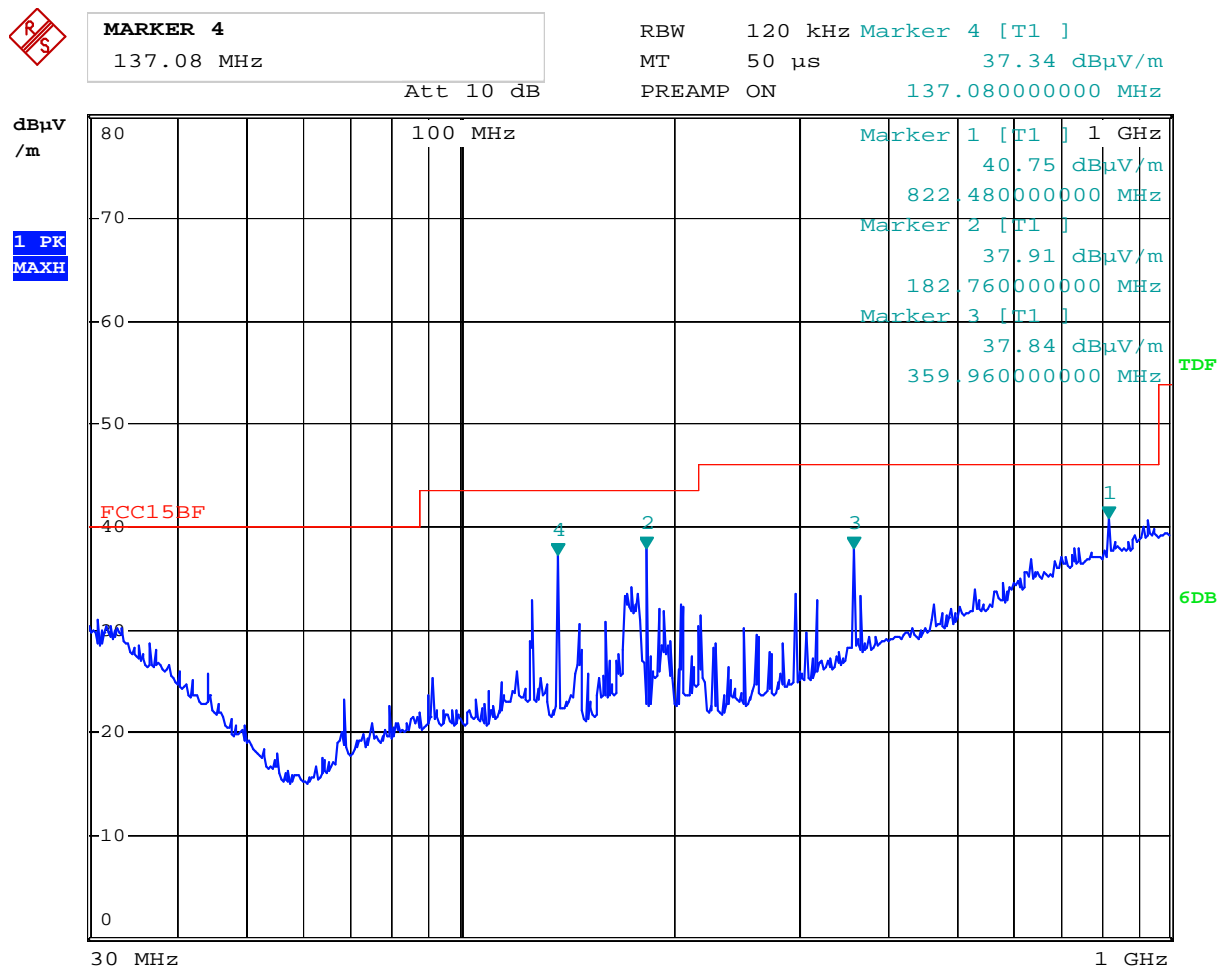
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Test Figure:

H

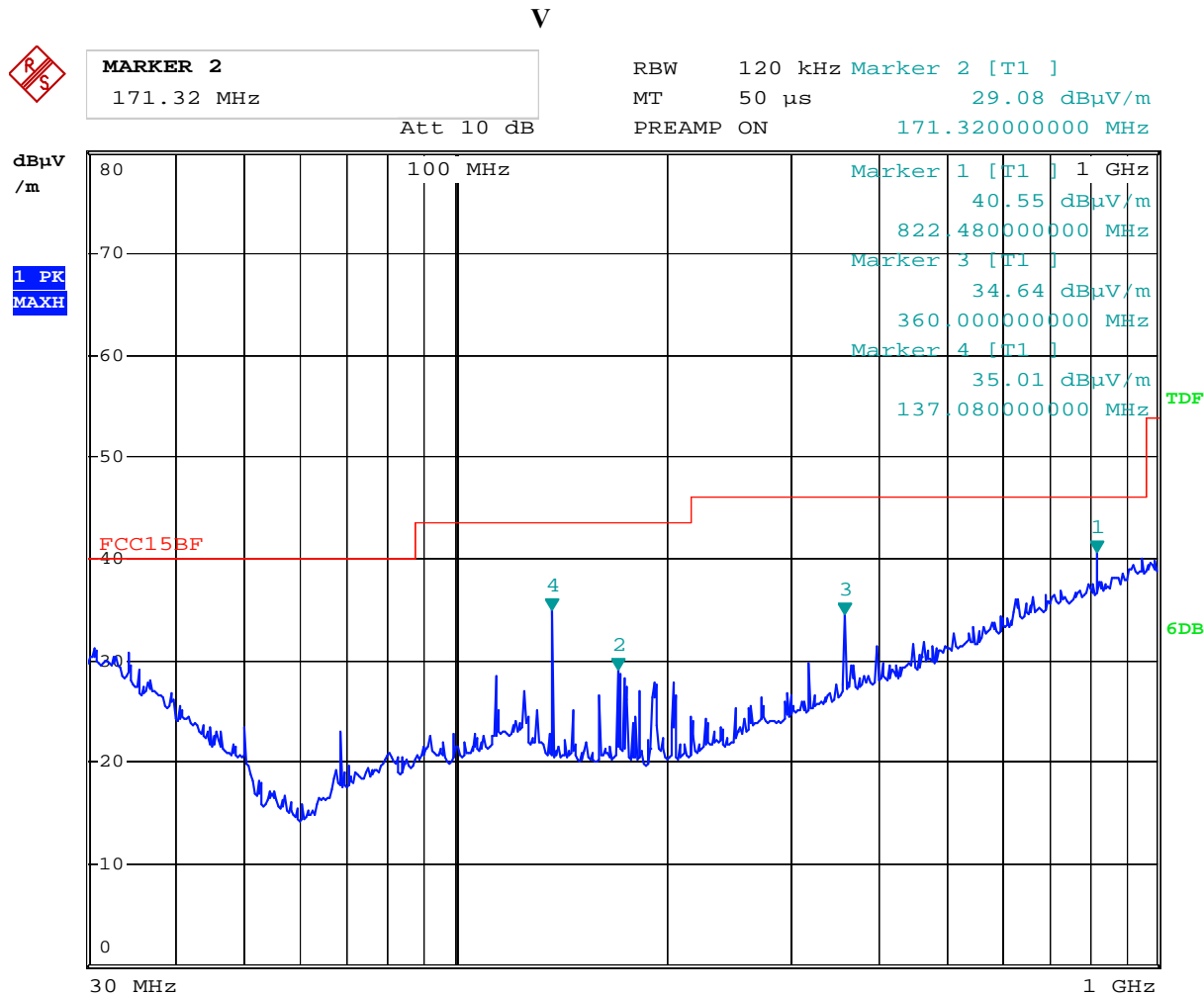


Date: 7.JUL.2017 14:23:49

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Test Figure:



Date: 7.JUL.2017 14:25:42

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

**EUT Operating Environment**

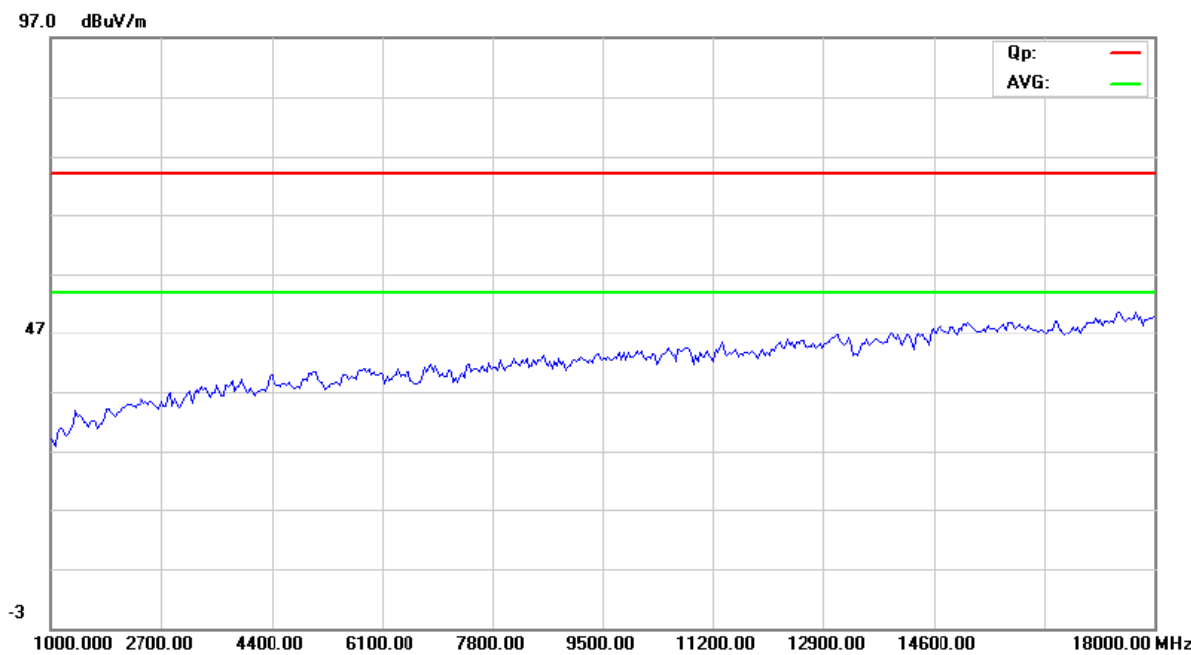
**Temperature:**25℃      **Humidity:** 75%RH      **Atmospheric Pressure:** 101 kPa

**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)            |

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

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

**EUT Operating Environment**

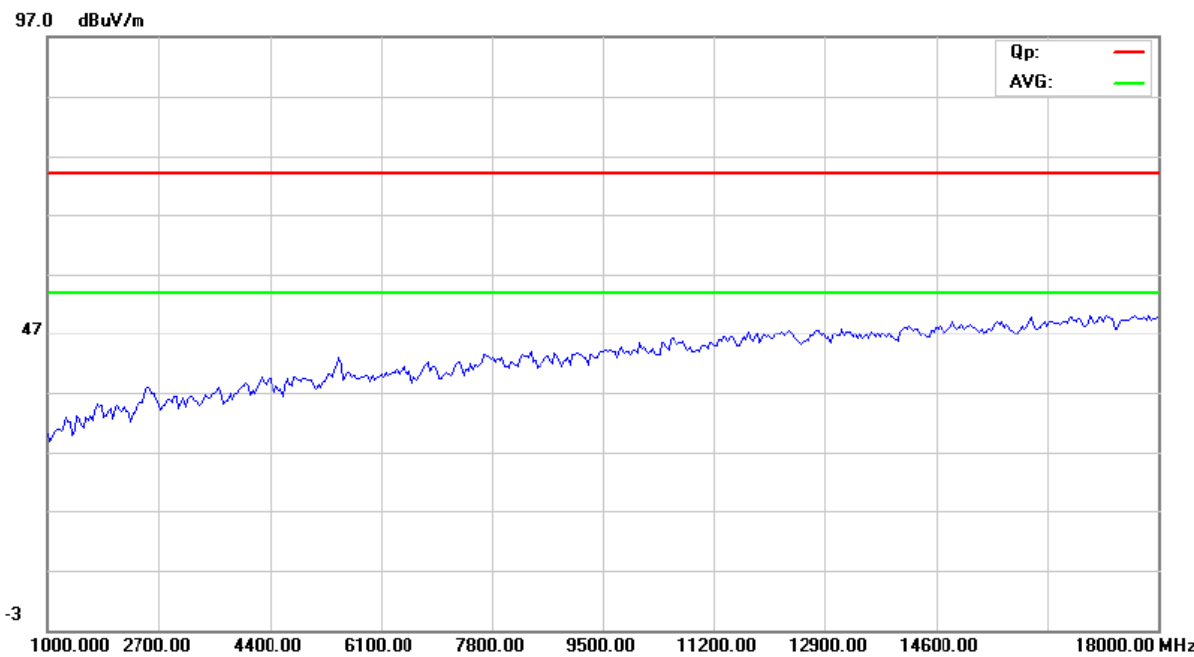
Temperature:25℃      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**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) |
|-----------------|-------------------|------------------|-------------------|
| --              | --                | 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: RBD-M710R1

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:



Label 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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## Photographs – EUT

Outside view



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Outside view



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Outside view



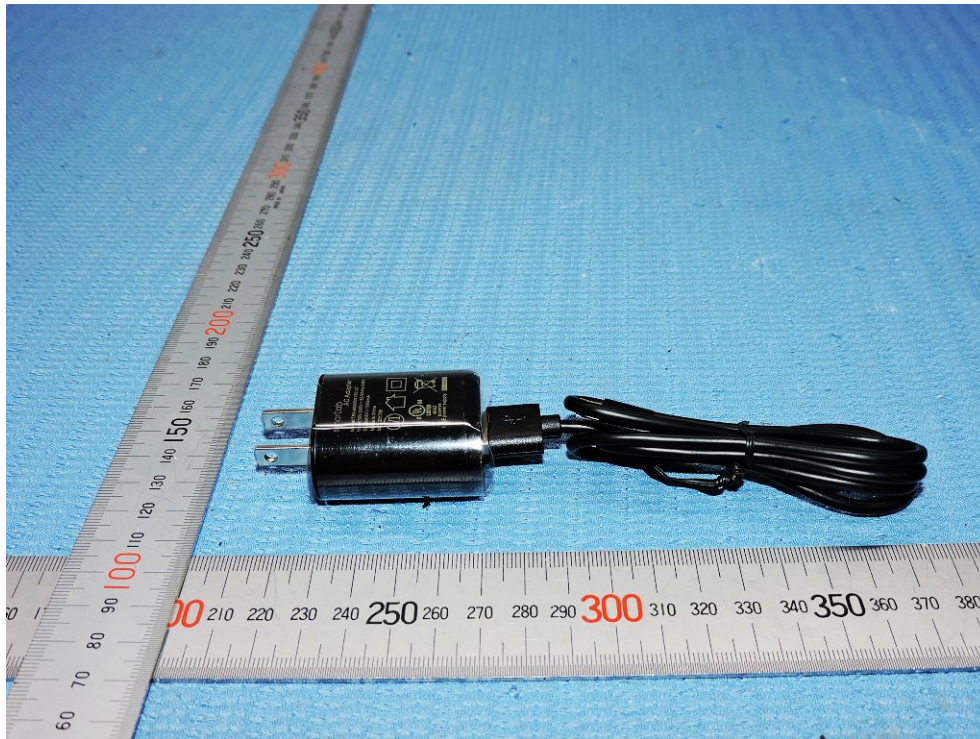
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Outside view



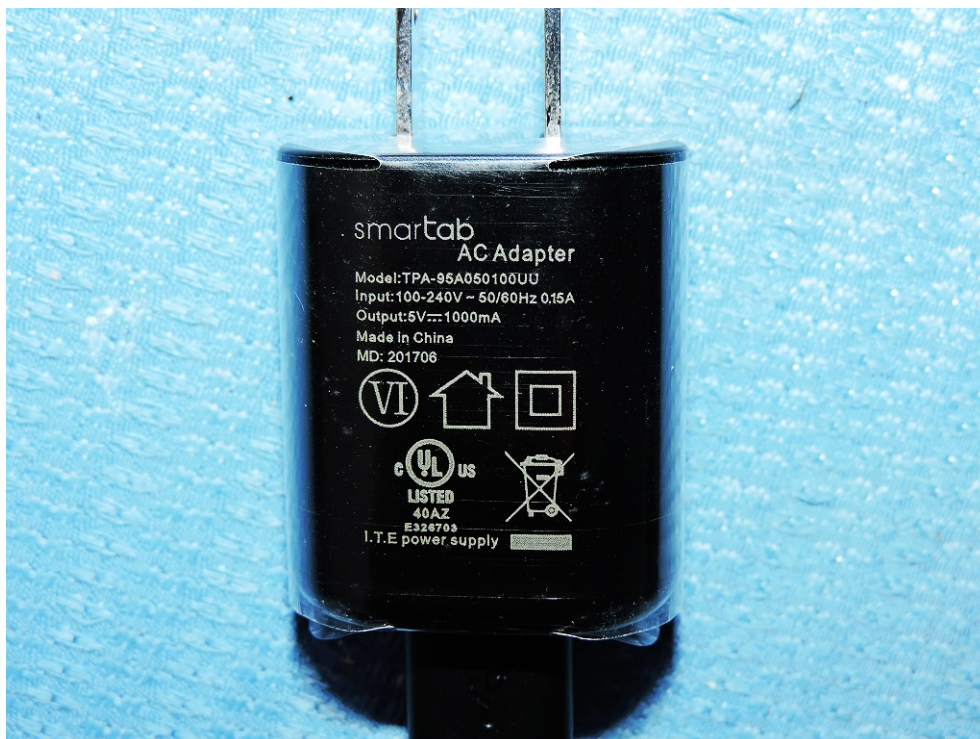
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Outside view



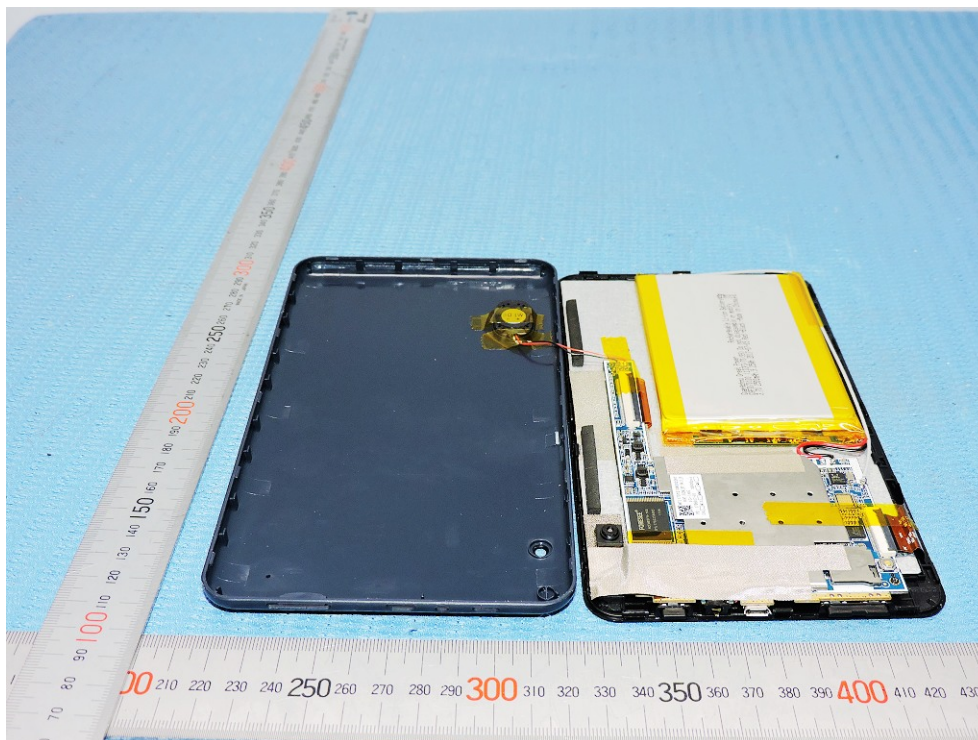
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Inside view



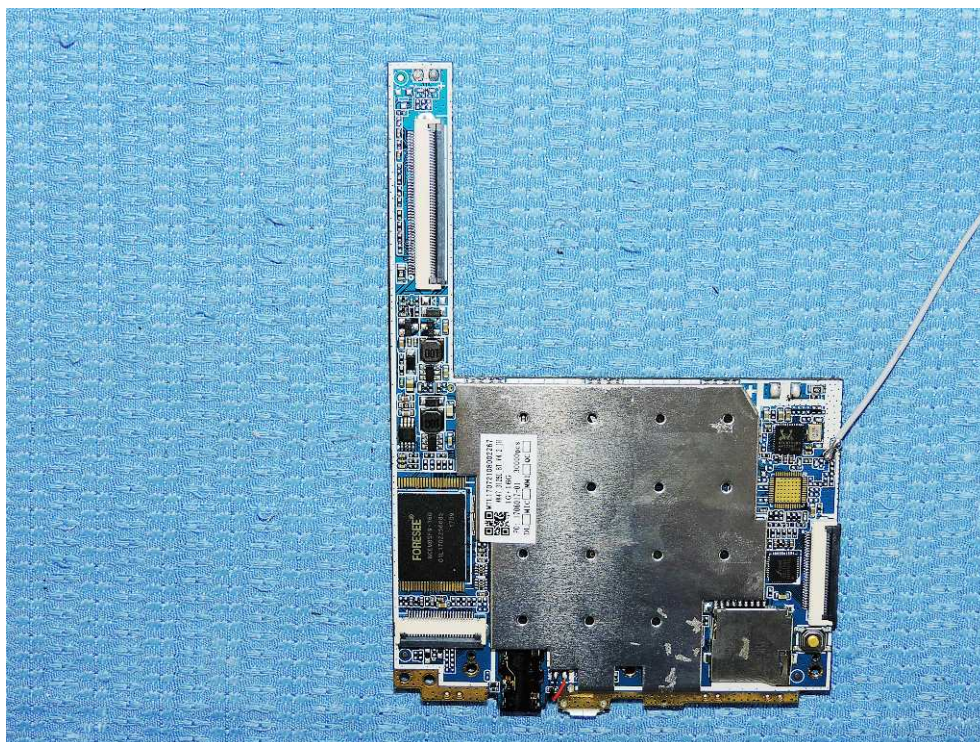
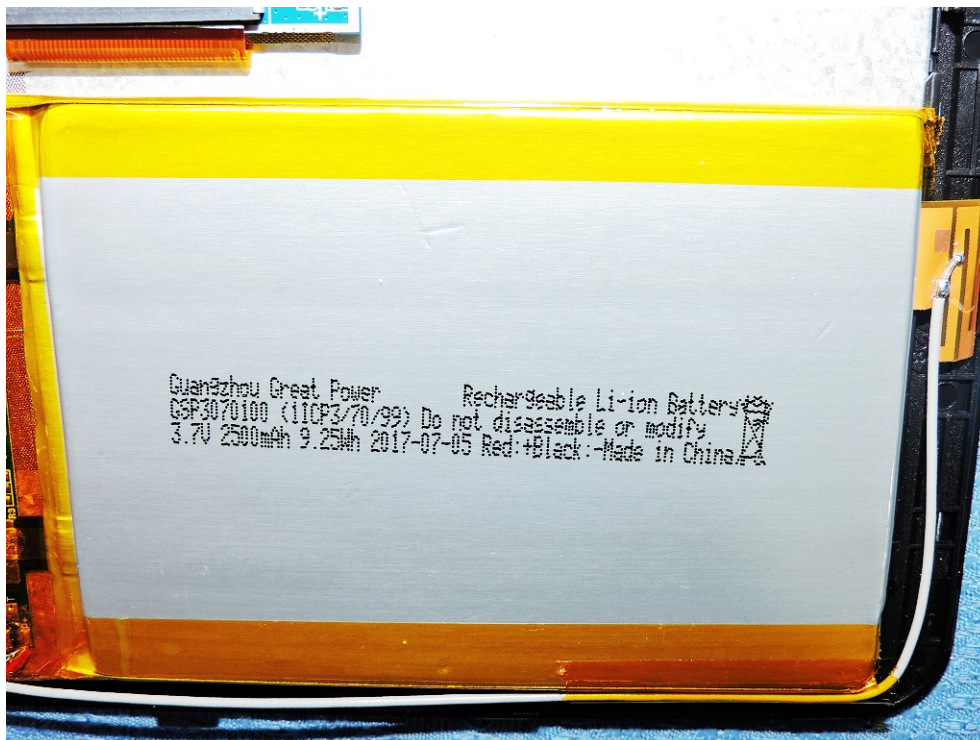
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Inside view



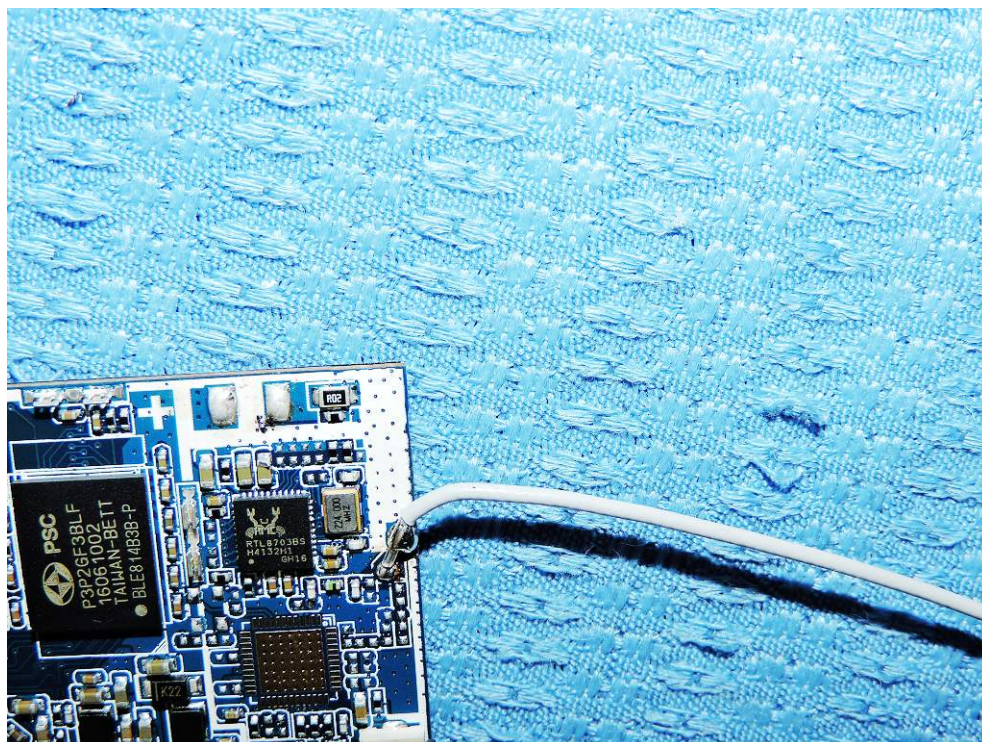
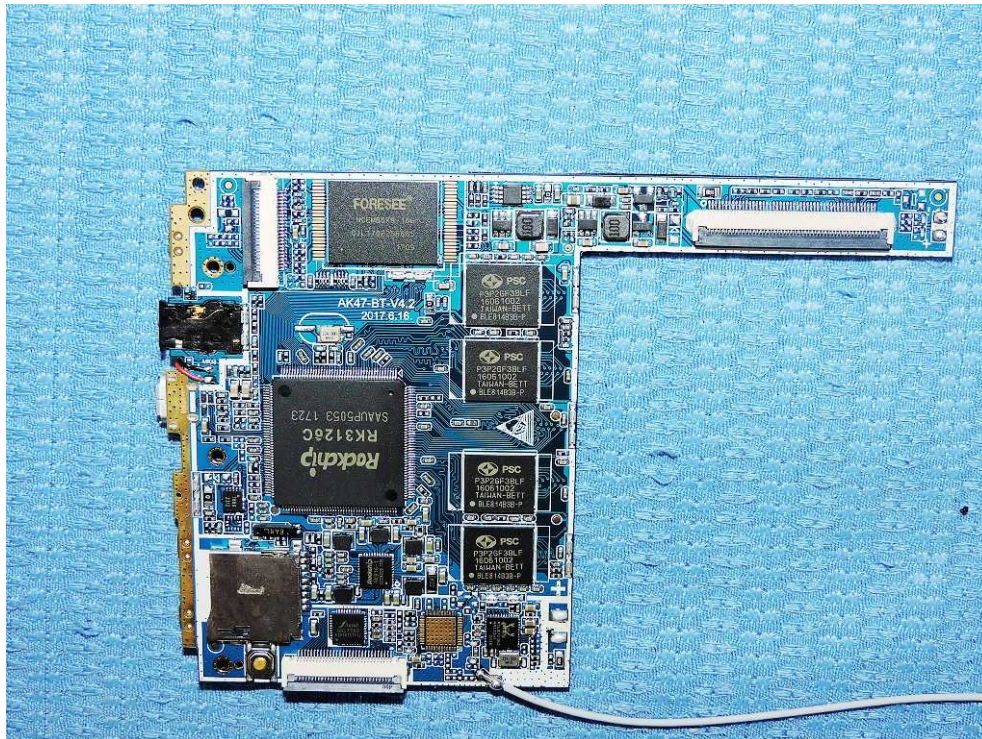
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Inside view-- **Configure a)**



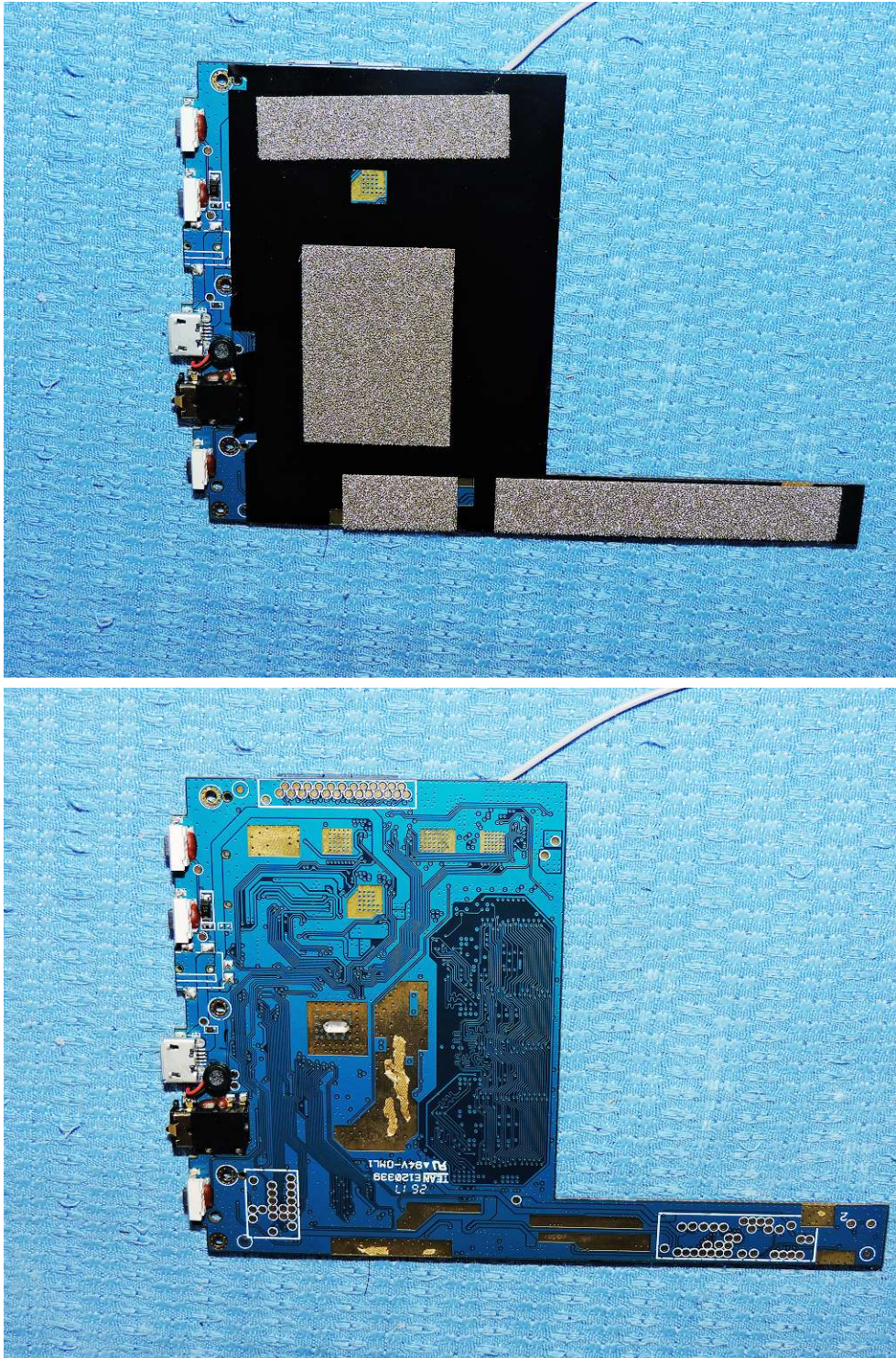
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Inside view



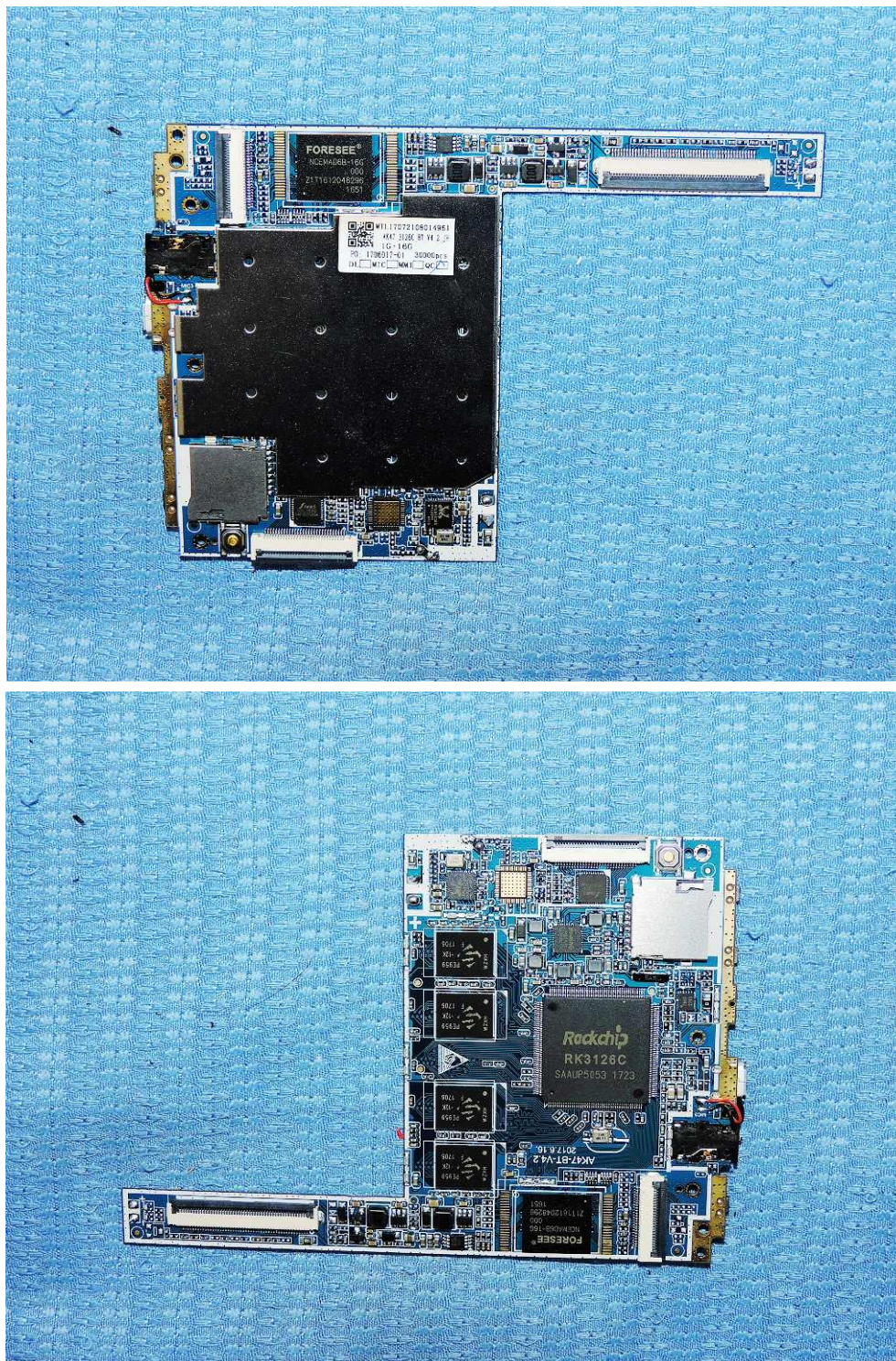
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Inside view-- **Configure b)**



**End of Report**

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