

# TECHNICAL REPORT



Report No: FCC1511150-01

File reference No: 2015-11-28

Applicant: King of Fans, Inc.

Product: 52" Latham

Model No: 52-LTM

Trademark: N/A

Test Standards: FCC Part 15 Subpart B: 2015

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: November 28, 2015

**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@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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## 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  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-02  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: King of Fans, Inc.  
Address: 1951 N.W. 22nd Street,Fort Lauderdale, FL33311,USA  
Telephone: 954-484-7500  
Fax: 954-784-7602

### 1.3 Description of EUT

Product: 52" Latham  
Manufacturer: Chienlun Industries (zhongshan) LTD  
Address: Da che Industrial Area,Nanlang Town,zhongshan,Guangdong  
China 528451  
Brand Name: N/A  
Model Number: 52-LTM  
Rating: Input:120V, 60Hz; FAN W/O light kit 0.5A, 60W; FAN W/Light kit: 0.96A, 88W  
Rx Frequency: 303.9MHz

### 1.4 Submitted Sample: 1 Samples

### 1.5 Test Duration: 2015-11-26 to 2015-11-28

### 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           | 2015.08.22       | 1Year             |
| Spectrum Analyzer | ESA-L1500A | US37451154 | HP           | 2015.08.22       | 1Year             |
| PULSE LIMITER     | ESH3-Z2    | 100281     | RS           | 2015.08.22       | 1Year             |
| LISN              | ESH3-Z5    | 100294     | RS           | 2015.08.22       | 1Year             |
| LISN              | ESH3-Z5    | 100253     | RS           | 2015.08.22       | 1Year             |

### 2.2 Radiated electromagnetic disturbance test

| Name              | Model No.  | Serial No.  | Manufacturer | Calibration Date | Calibration Cycle |
|-------------------|------------|-------------|--------------|------------------|-------------------|
| EMI Test Receiver | ESVD       | 100008      | RS           | 2015.08.22       | 1Year             |
| Coaxial Switch    | MP59B      | M70585      | ANRITSU      | N/A              | N/A               |
| Spectrum Analyzer | 8595E      | 3441A00893  | HP           | 2015.06.24       | 1Year             |
| Amplifier         | 8447D      | 2727A05017  | HP           | 2015.08.22       | 1Year             |
| Bilog Antenna     | VULB9163   | 9163/340    | Schwarebeck  | 2015.08.23       | 1Year             |
| Horn Antenna      | BBHA 9120D | 9120D-631   | Schwarebeck  | 2015.08.24       | 1Year             |
| Horn Antenna      | BBHA 9170  | BBHA9170265 | Schwarebeck  | 2015.08.24       | 1Year             |

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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: 2015**

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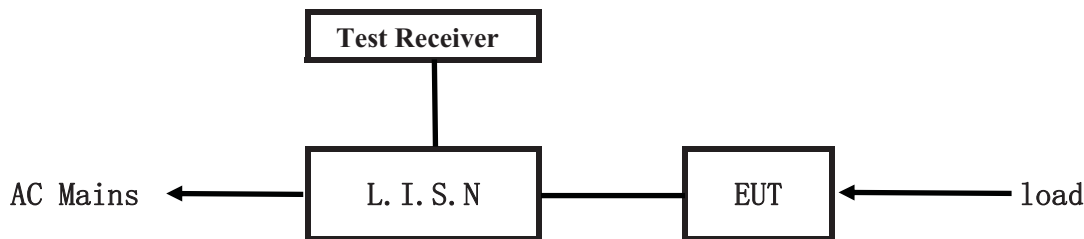
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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



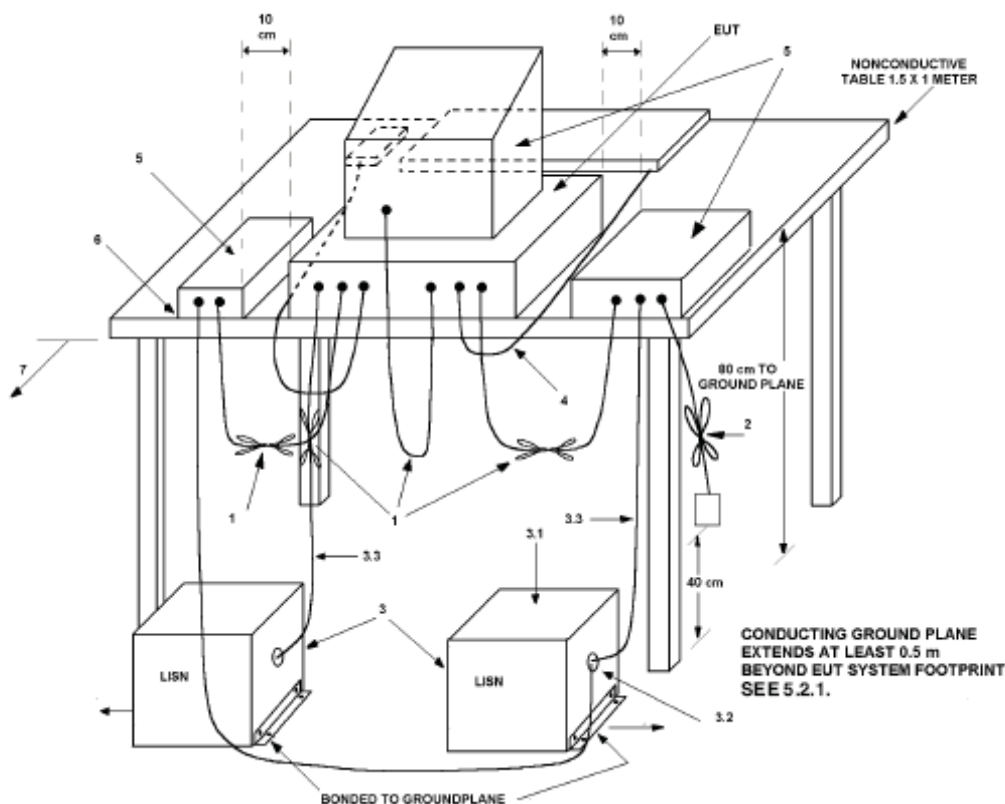
EUT: Equipment Under Test

##### 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**

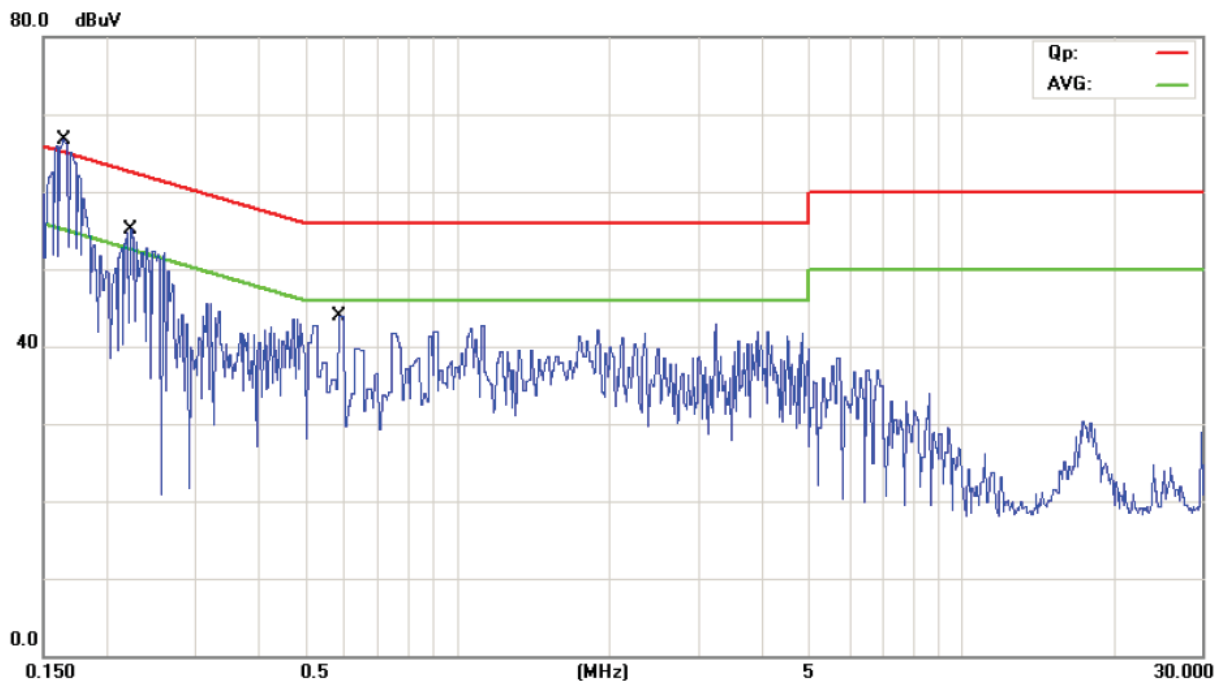
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 0.1650       | 34.90                    | 11.02                   | 45.92                    | 65.21         | -19.29     | QP       |         |
| 2   |     | 0.1650       | -6.50                    | 11.02                   | 4.52                     | 55.21         | -50.69     | AVG      |         |
| 3   |     | 0.2222       | 30.10                    | 11.08                   | 41.18                    | 62.74         | -21.56     | QP       |         |
| 4   |     | 0.2222       | -10.50                   | 11.08                   | 0.58                     | 52.74         | -52.16     | AVG      |         |
| 5   |     | 0.5844       | 7.10                     | 11.46                   | 18.56                    | 56.00         | -37.44     | QP       |         |
| 6   |     | 0.5844       | -12.70                   | 11.46                   | -1.24                    | 46.00         | -47.24     | AVG      |         |

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

**EUT Operating Environment**

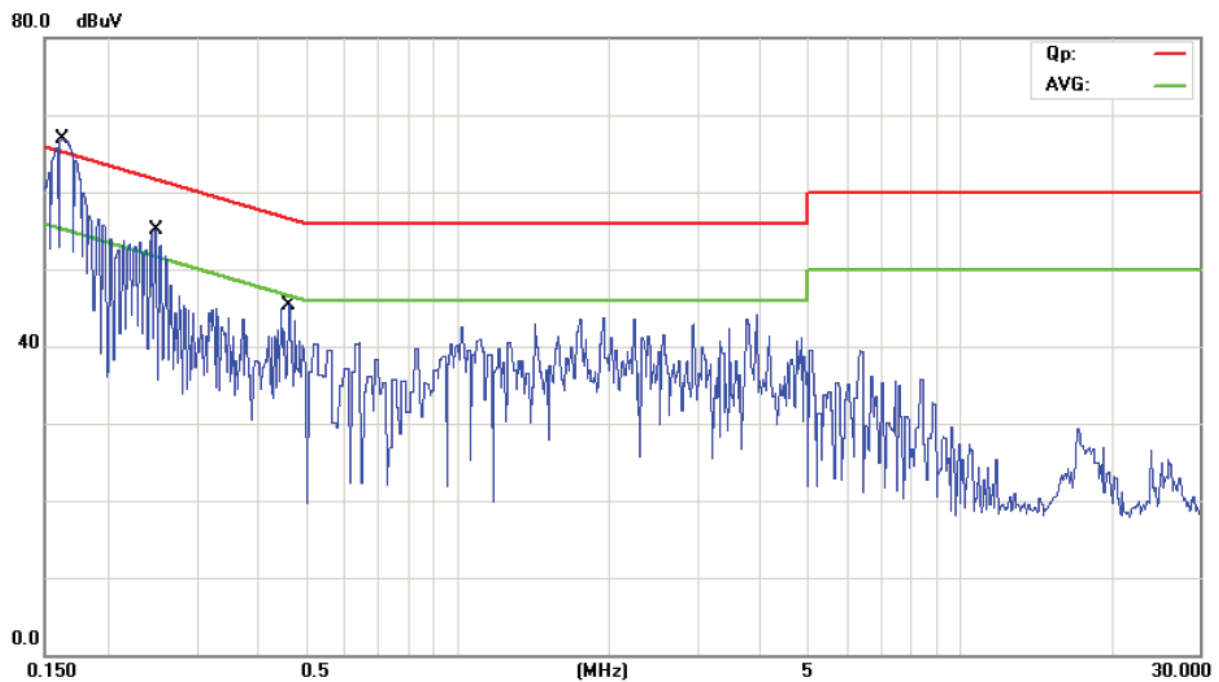
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 0.1623       | 35.30                    | 11.01                   | 46.31                    | 65.35         | -19.04     | QP       |         |
| 2   |     | 0.1623       | -8.80                    | 11.01                   | 2.21                     | 55.35         | -53.14     | AVG      |         |
| 3   |     | 0.2485       | 20.70                    | 11.10                   | 31.80                    | 61.81         | -30.01     | QP       |         |
| 4   |     | 0.2485       | -11.50                   | 11.10                   | -0.40                    | 51.81         | -52.21     | AVG      |         |
| 5   |     | 0.4574       | 8.80                     | 11.33                   | 20.13                    | 56.74         | -36.61     | QP       |         |
| 6   |     | 0.4574       | -12.50                   | 11.33                   | -1.17                    | 46.74         | -47.91     | AVG      |         |

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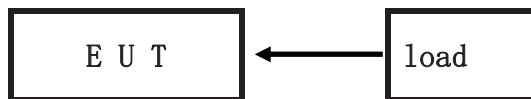
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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

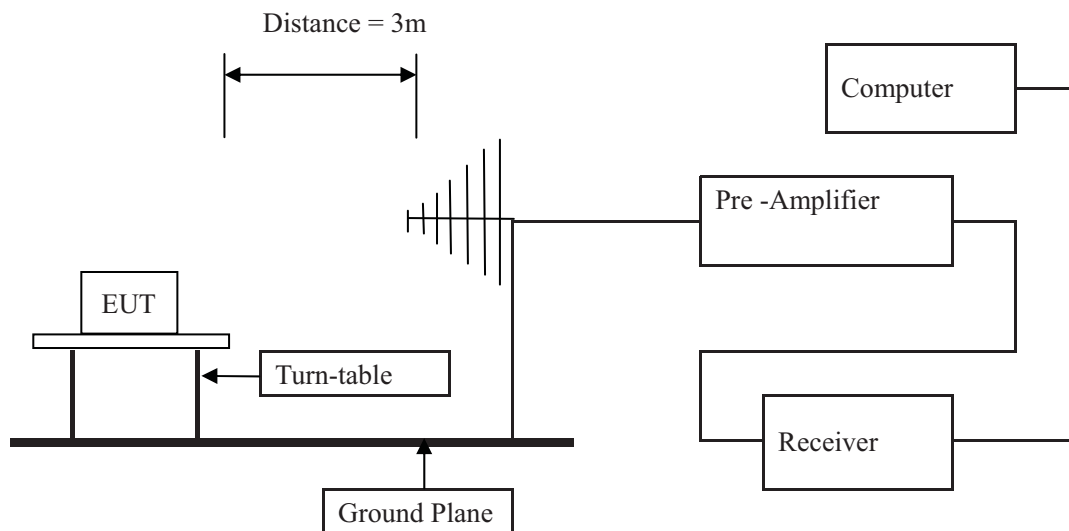


### 5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 5GHz 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

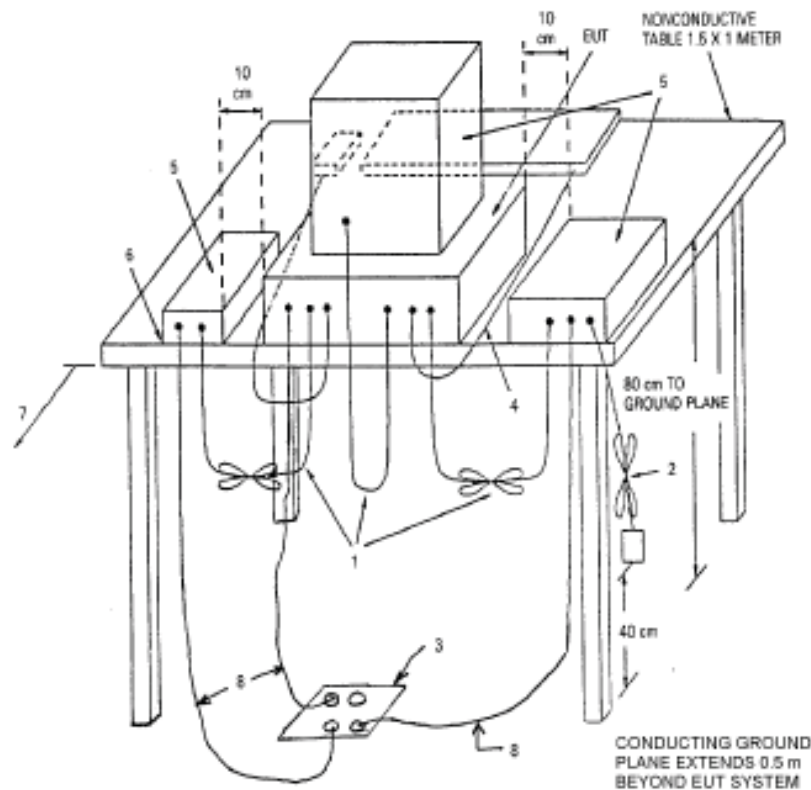
#### Block diagram of Test setup



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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 5GHz 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: Receiving Mode**

**Results: Pass**

| Frequency (MHz) | Level@3m (dB $\mu$ V/m) | Antenna Polarity | Limit@3m (dB $\mu$ V/m) |
|-----------------|-------------------------|------------------|-------------------------|
| 31.080          | 30.59                   | H                | 40.00                   |
| 983.600         | 39.65                   | H                | 54.00                   |
|                 |                         |                  |                         |
| 30.800          | 30.84                   | V                | 40.00                   |
| 955.640         | 40.83                   | V                | 46.00                   |

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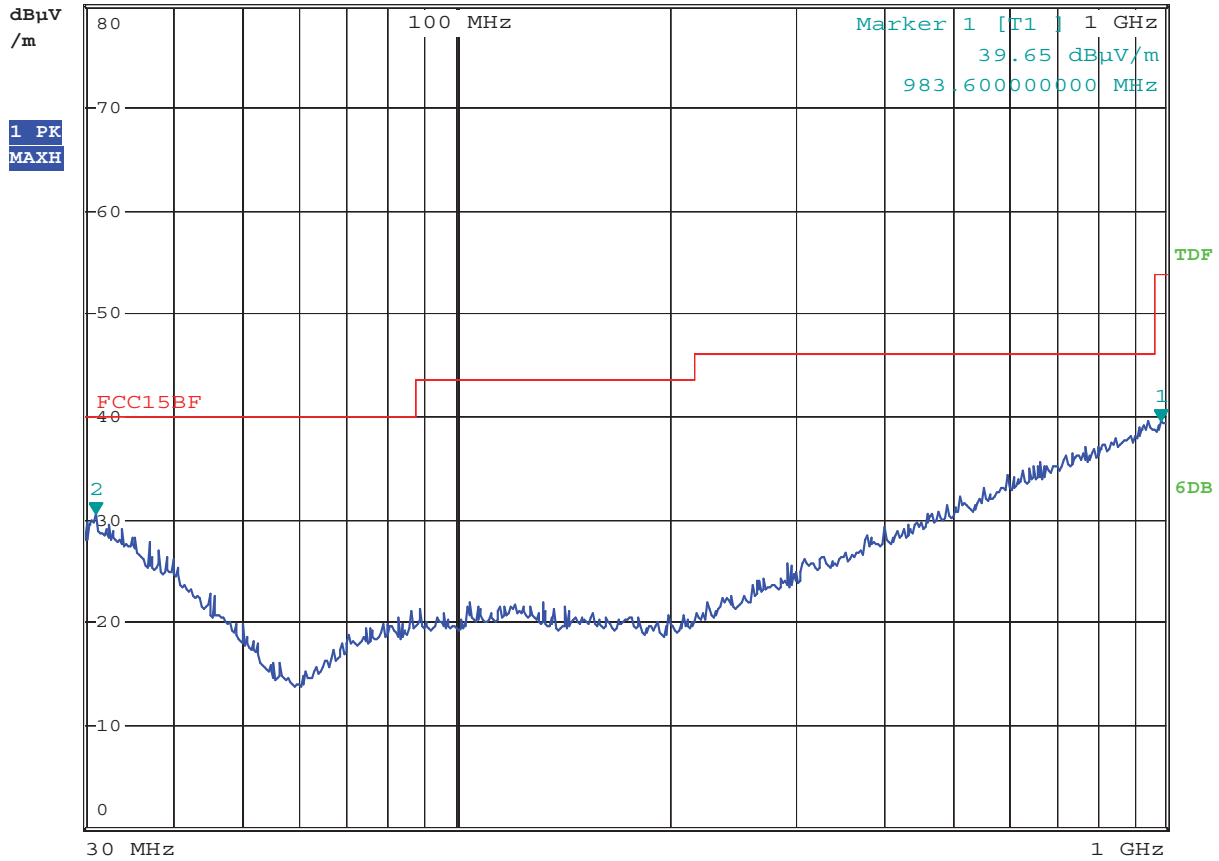
Test Figure:

H



**MARKER 2**  
 31.08 MHz  
 Att 10 dB

RBW 120 kHz Marker 2 [T1 ]  
 MT 50  $\mu$ s 30.59 dB $\mu$ V/m  
 PREAMP ON 31.080000000 MHz



Date: 26.NOV.2015 15:24:01

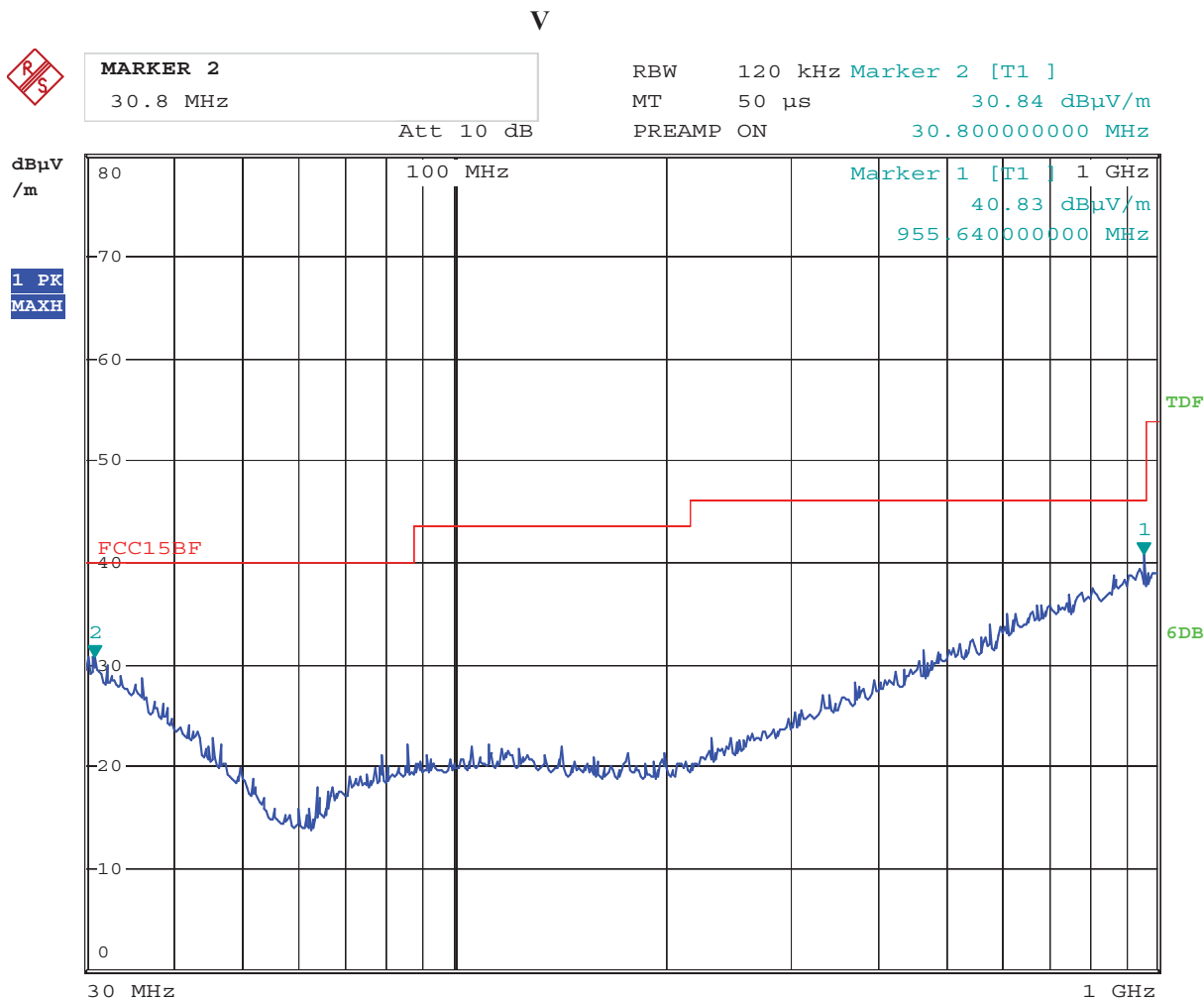
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Test Figure:



Date: 26.NOV.2015 15:22:16

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**Radiated Disturbance (1000MHz----5000MHz)**

**EUT Operating Environment**

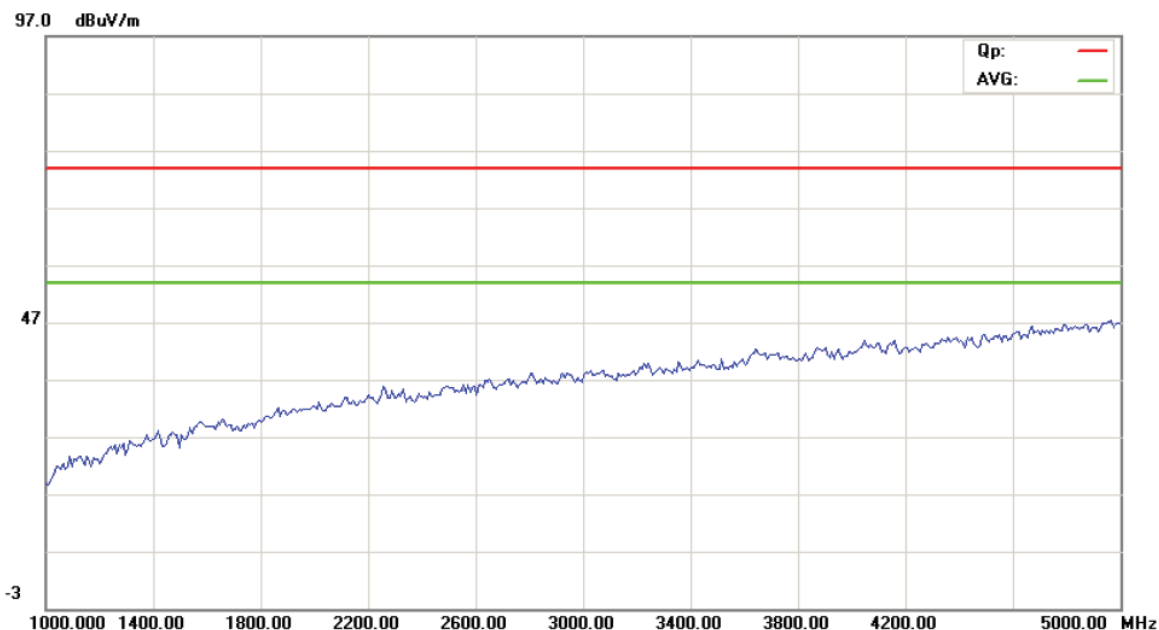
**Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa**

**EUT set Condition: Receiving Mode**

**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: PK scan curve are lower than AV limit .

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**Radiated Disturbance (1000MHz----5000MHz)**

**EUT Operating Environment**

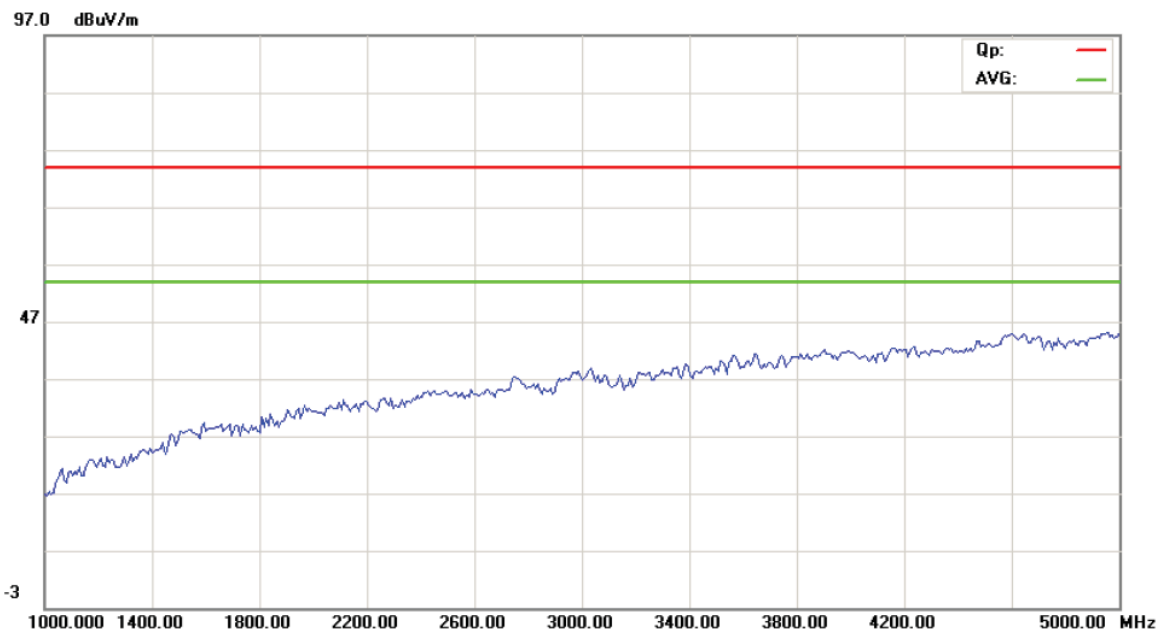
Temperature:25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode**

**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: PK scan curve are lower than AV limit .

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## 6.0 FCC ID Label

### FCC ID: RGB-52LTMC

**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



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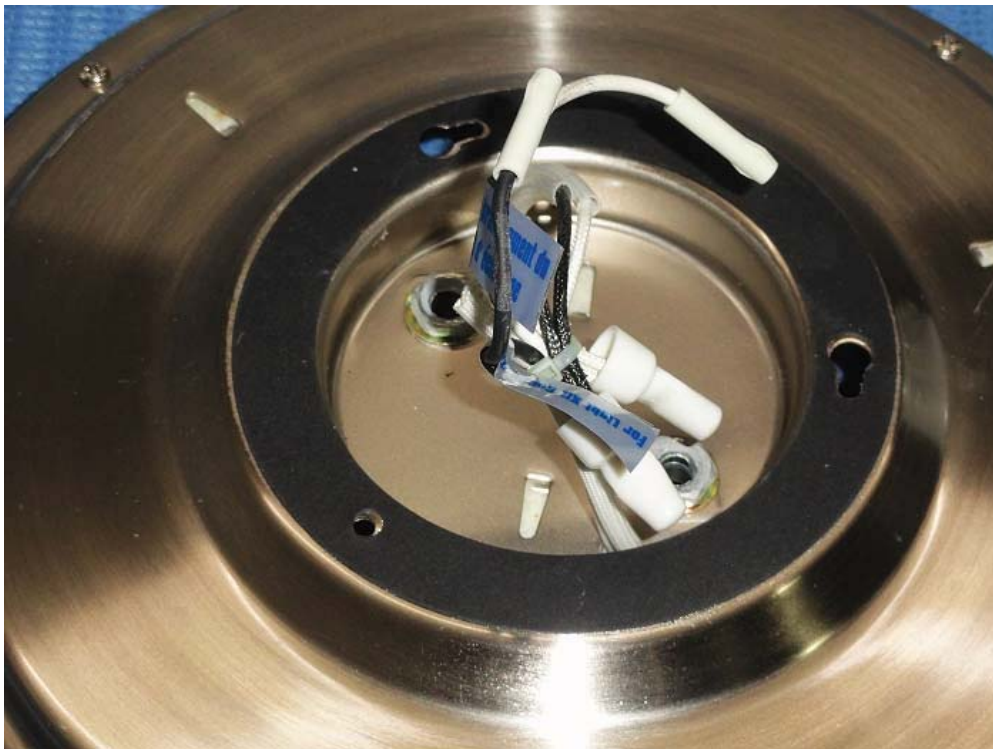
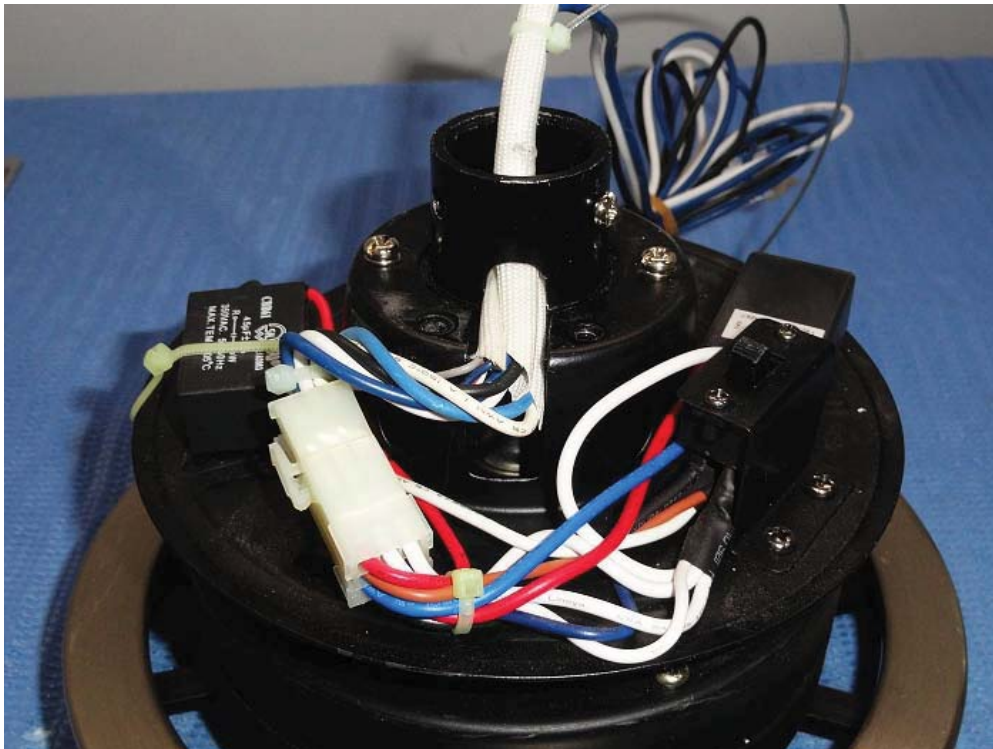
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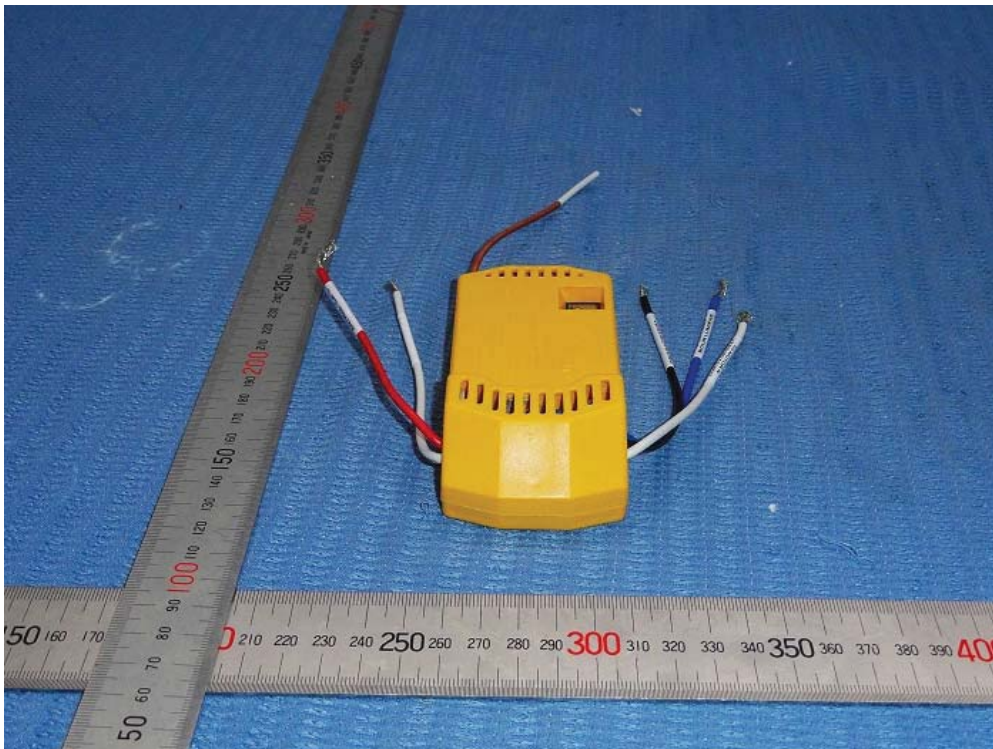
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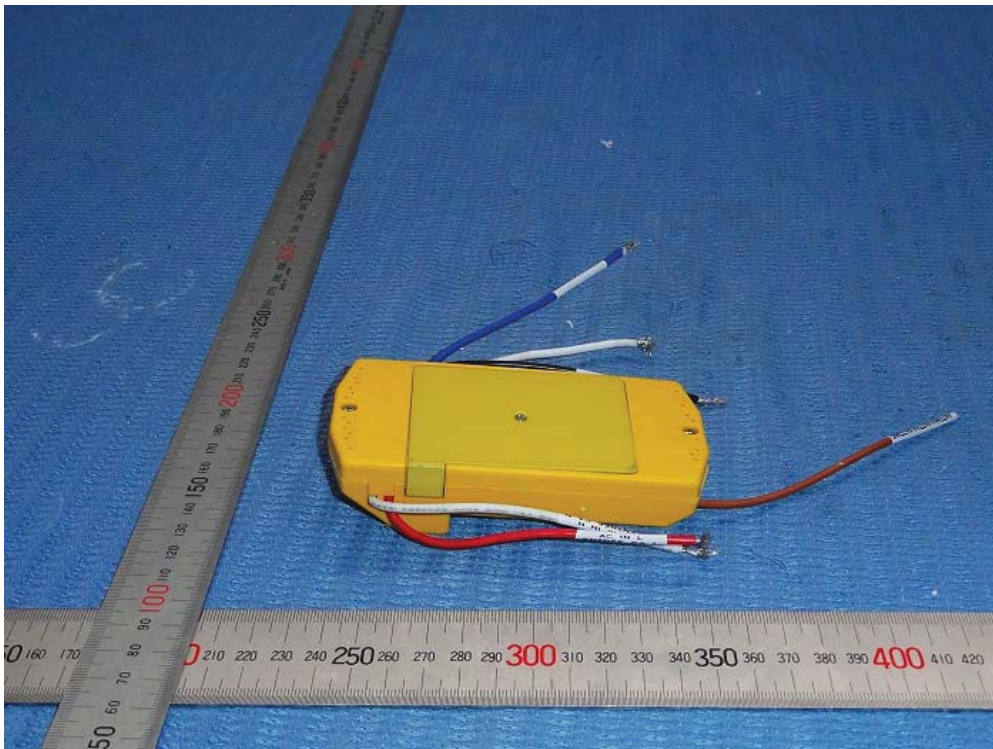
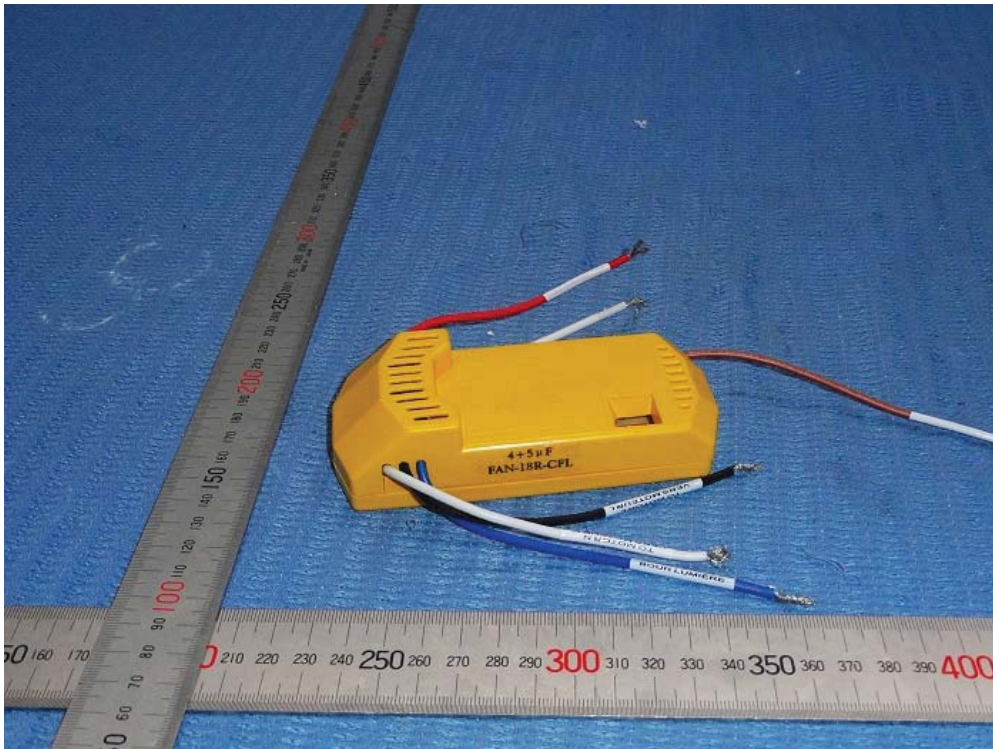


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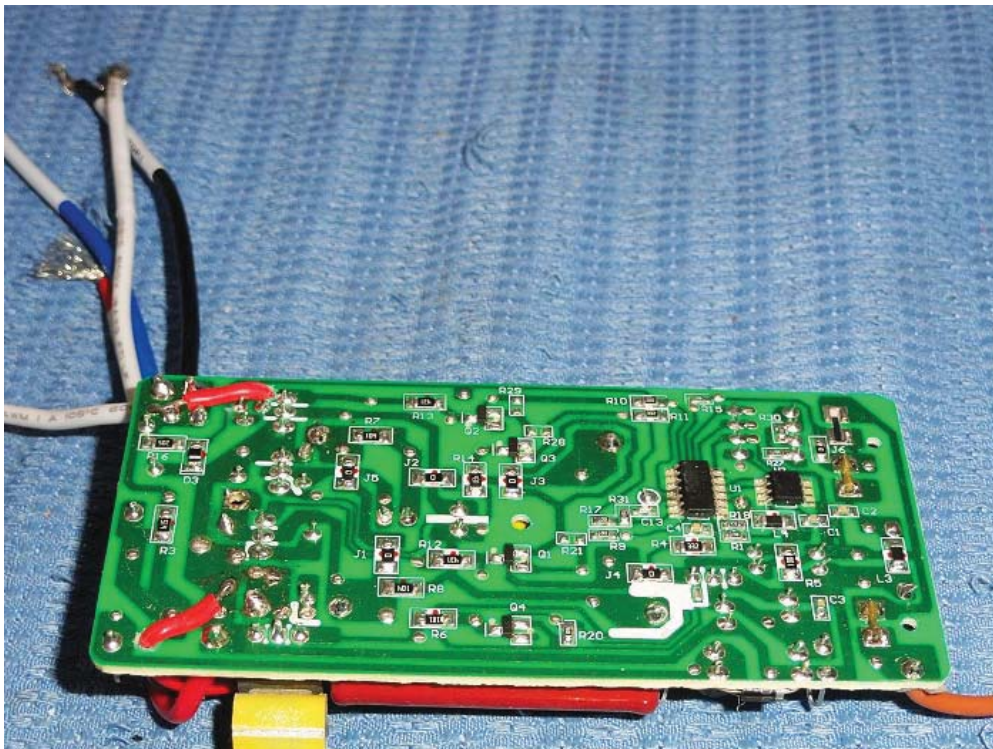
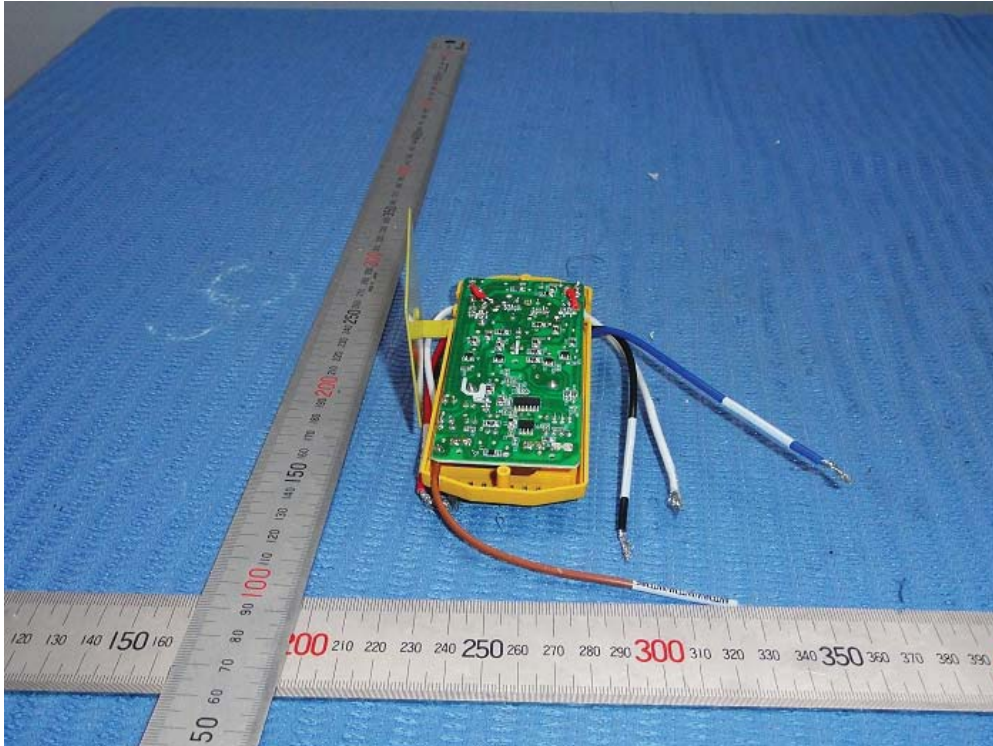


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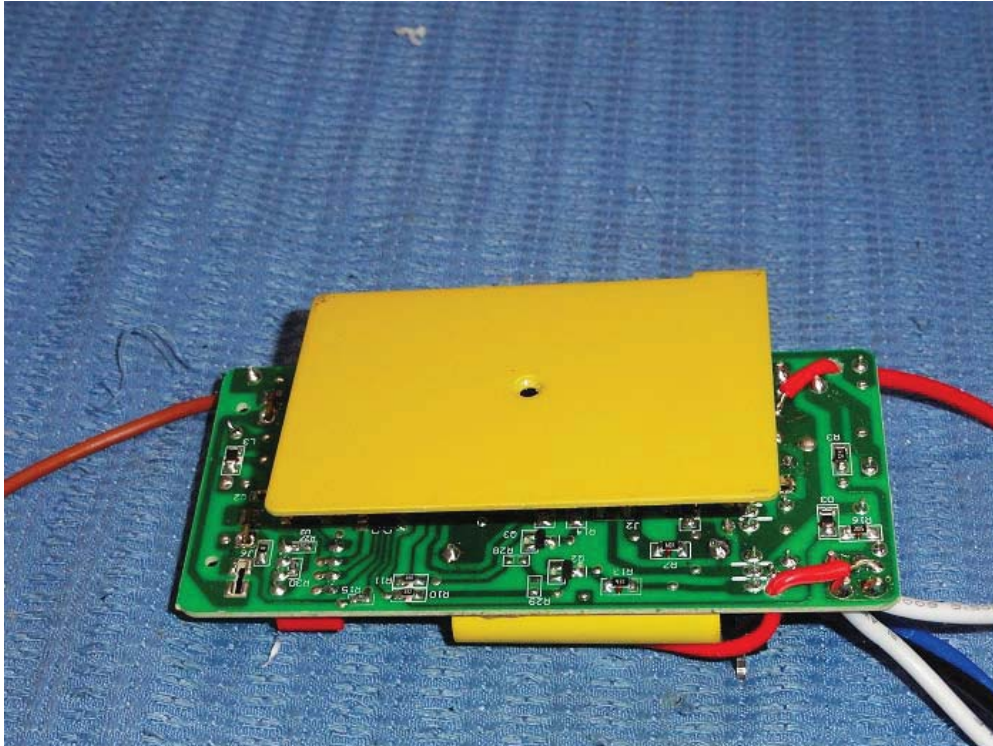


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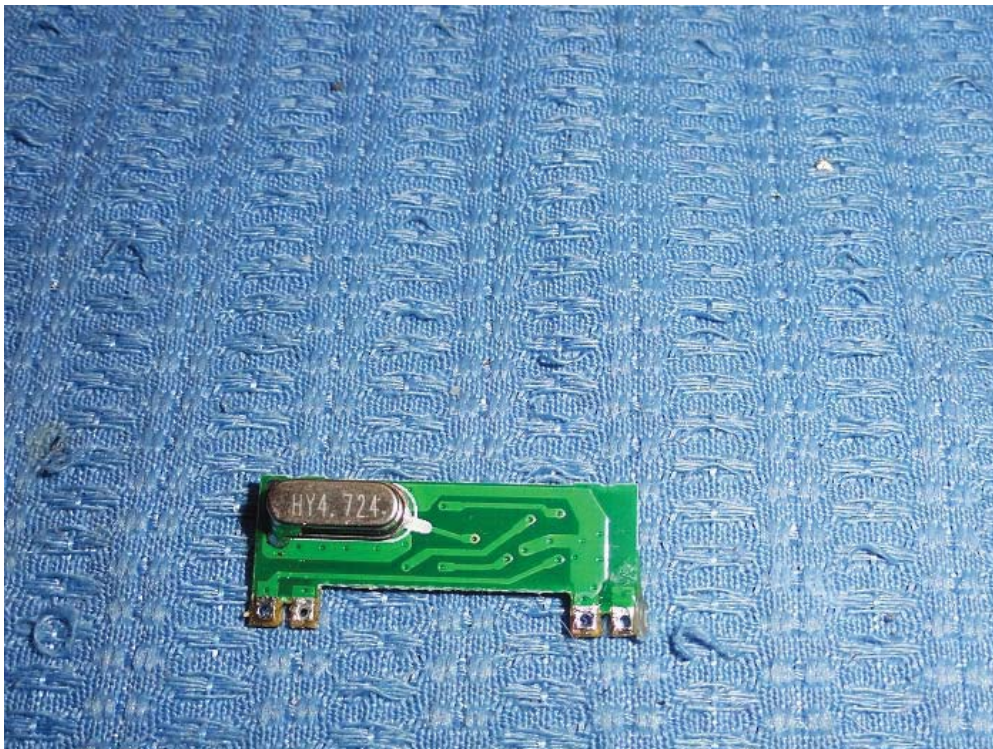
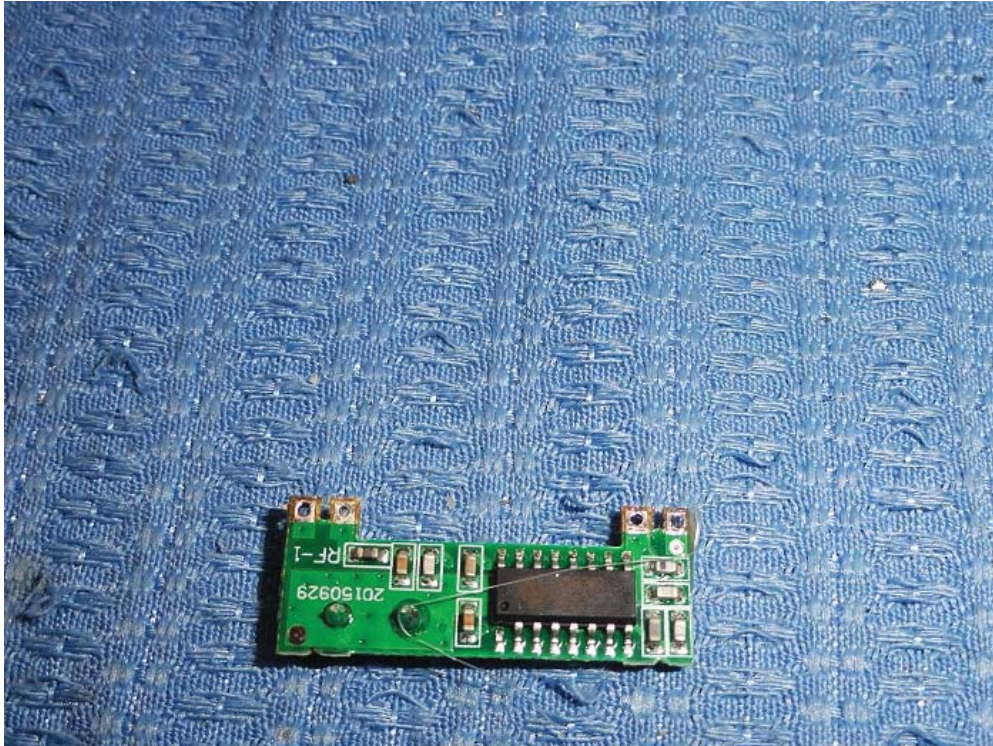


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**-End of the report-**

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