



Report No: FCC1707170 File reference No: 2017-07-08

Applicant: King of Fans, Inc.

Product: 52" Campbell

Model No: 52-BVD

Trademark: Hampton Bay

Test Standards: FCC Part 15 Subpart B: 2016

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 08, 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

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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

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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 Sates

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" Campbell

Manufacturer: Chienluen Industries (zhongshan) Ltd..

Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China

528451

Brand Name: Hampton Bay Model Number: 52-BVD

Rating: Input 120V, 60Hz, w/o light 0.6A 72W, w/light 0.85A 100W; Output: LED bulb 3x9W

Rx Frequency: 304MHz

1.4 Submitted Sample: 1 Samples

1.5 Test Duration: 2017-07-03 to 2017-07-08

1.6 Test Uncertainty

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

1.7 Test Engineer

Temy Tang

The sample tested by

Print Name: Terry Tang

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

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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 | 2016.08.20 | 1Year |
| Spectrum Analyzer | ESA-L1500A | US37451154 | НР | 2016.08.20 | 1Year |
| PULSE LIMITER | ESH3-Z2 | 100281 | RS | 2016.08.20 | 1Year |
| LISN | ESH3-Z5 | 100294 | RS | 2016.08.20 | 1Year |
| LISN | ESH3-Z5 | 100253 | RS | 2016.08.20 | 1Year |

2.2 Radiated electromagnetic disturbance test

| | | | | Calibration | Calibration |
|-------------------|------------|------------|--------------|-------------|-------------|
| Name | Model No. | Serial No. | Manufacturer | Date | Cycle |
| EMI Test Receiver | ESI26 | 838786/013 | RS | 2016.08.19 | 1Year |
| Amplifier | 8447D | 2727A05017 | HP | 2016.08.24 | 1Year |
| Bilog Antenna | VULB9163 | 9163/340 | Schwarebeck | 2016.08.24 | 1Year |
| Horn Antenna | BBHA 9120D | 9120D-631 | RS | 2016.08.24 | 1Year |

2.3 Auxiliary Equipment

| Name | Model No. | Serial No. | Manufacturer | Date | Cycle |
|------|-----------|------------|--------------|-------------|-------------|
| | | | | Calibration | Calibration |

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3.0 Technical Details

Date: 2017-07-08

3.1 Investigations Requested
Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

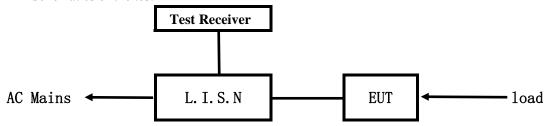
FCC Part 15 Subpart B: 2016

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4.0 Conducted Power line Test

4.1 Schematics of the test



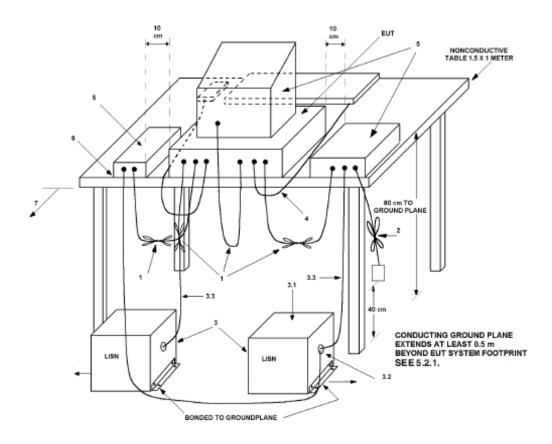
EUT: Equipment Under Test

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



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

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4.3 Power line conducted Emission Limit

| Eraguanay (MHz) | Class A Li | mits dB(μV) | Class B Limits $dB(\mu V)$ | | |
|-------------------|------------------|---------------|----------------------------|---------------|--|
| Frequency(MHz) | 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* | |
| $0.50 \sim 5.00$ | 73.00 | 60.00 | 56.00 | 46.00 | |
| $5.00 \sim 30.00$ | 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

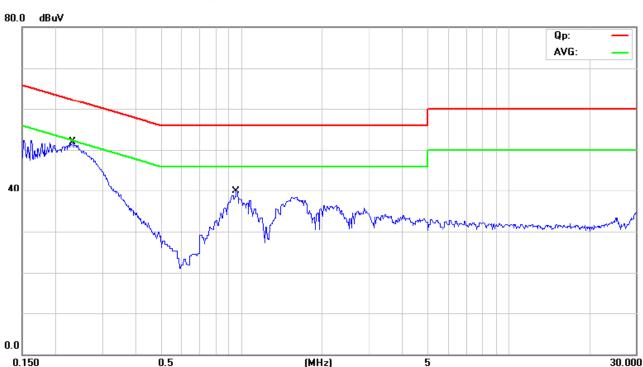
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBu∀ | dB | Detector | Comment |
| 1 | 0.2313 | 39.00 | 9.94 | 48.94 | 62.40 | -13.46 | QP | |
| 2 * | 0.2313 | 33.10 | 9.94 | 43.04 | 52.40 | -9.36 | AVG | |
| 3 | 0.9541 | 26.10 | 10.84 | 36.94 | 56.00 | -19.06 | QP | |
| 4 | 0.9541 | 18.50 | 10.84 | 29.34 | 46.00 | -16.66 | AVG | |

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

EUT Operating Environment

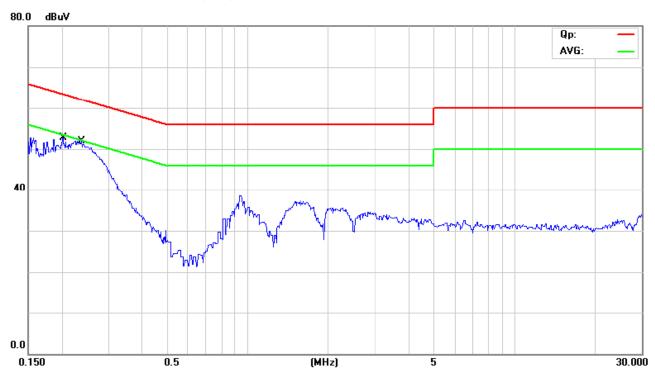
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBu∀ | dB | Detector | Comment |
| 1 | | 0.2372 | 39.50 | 9.95 | 49.45 | 62.19 | -12.74 | QP | |
| 2 | * | 0.2372 | 33.90 | 9.95 | 43.85 | 52.19 | -8.34 | AVG | |
| 3 | | 0.2000 | 38.20 | 9.90 | 48.10 | 63.61 | -15.51 | QP | |
| 4 | | 0.2000 | 32.40 | 9.90 | 42.30 | 53.61 | -11.31 | AVG | |

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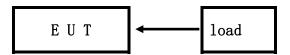
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

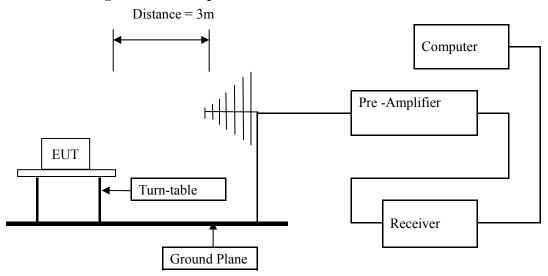


5.2 Test Method and test Procedure:

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=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

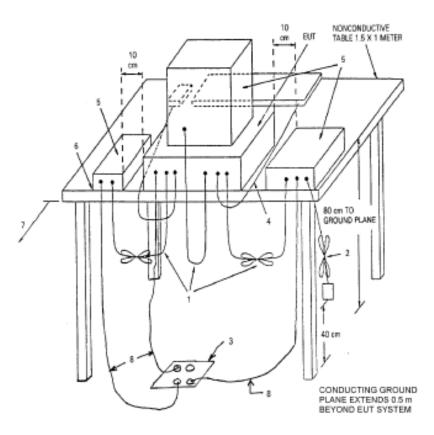
Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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5.3 Radiated Emission Limit

| Frequency Range (MHz) | Distance (m) | Field strength (dB µ 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 handhold 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 \u03b4 V/m) | Antenna Polarity | Limit@3m (dB \u03b4 V/m) |
|-----------------|--------------------------|------------------|--------------------------|
| 298.280 | 35.65 | Н | 46.00 |
| 975.000 | 39.21 | Н | 54.00 |
| 185.400 | 40.89 | Н | 43.50 |
| | | | |
| 30.080 | 36.84 | V | 40.00 |
| 443.800 | 39.73 | V | 46.00 |
| 184.560 | 39.26 | V | 43.50 |
| 80.280 | 34.00 | V | 40.00 |

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Test Figure:

30 MHz

Η MARKER 3 RBW 120 kHz Marker 3 [T1] $35.65 \text{ dB}\mu\text{V/m}$ 298.28 MHz МТ 50 µs Att 10 dB PREAMP ON 298.280000000 MHz dΒμV 100 MHz Marker 21 dBµV/m 39 000000000 975 MHz 1 PK MAXH 40 89 dE 185 400000 000 M TDF FCC15BF 6DB -10

1 GHz

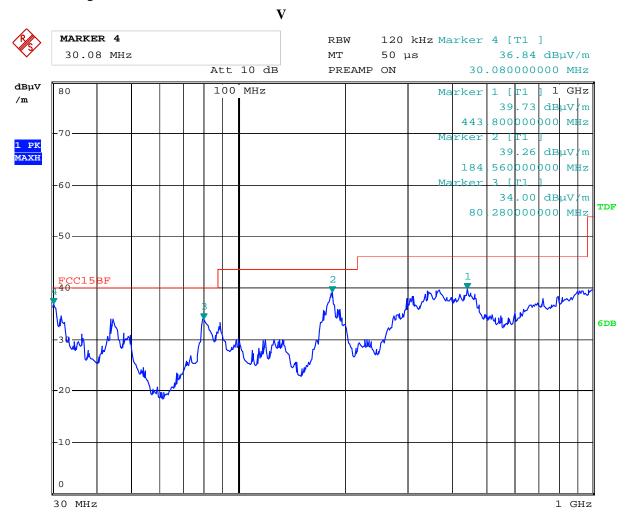
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Test Figure:



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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) |
|-----------------|-------------------|------------------|-------------------|
| | | Н | 54(AV) |

Note: PK scan result curve is 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

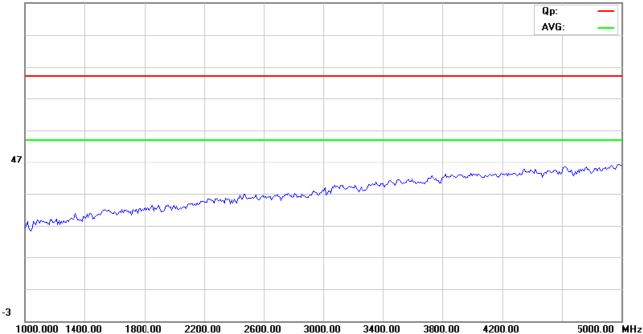
EUT set Condition: Receiving Mode

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 result curve is lower than AV limit

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6.0 FCC Label

FCC ID: RGB-52BVDS2

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.



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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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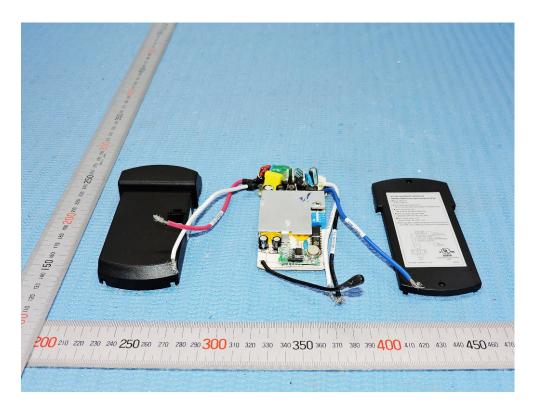
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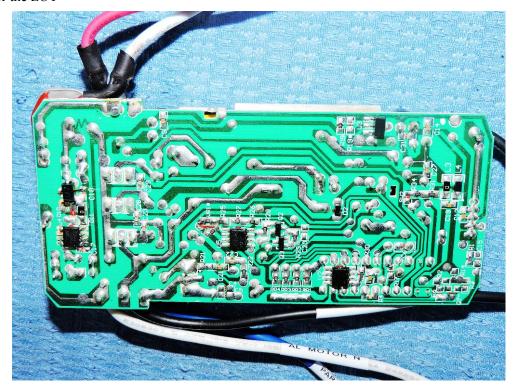
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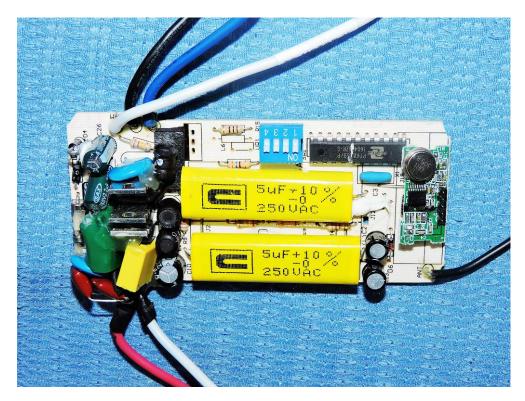
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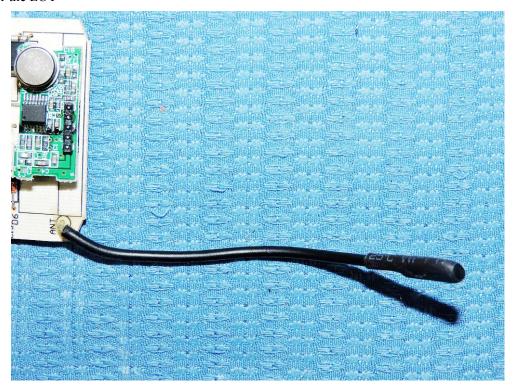
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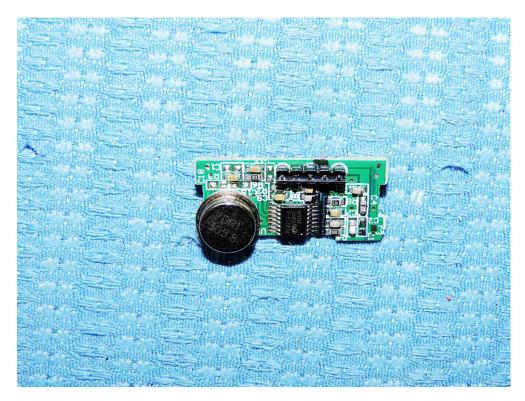
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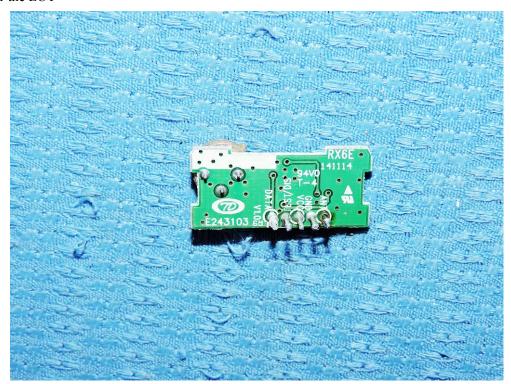
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Photo for the EUT



-End of the report-