SHENZHEN MOST ELECTRONICS CO., LTD.
Tel:(86) 755-26825180 Fax:(86) 755-86170310
Http:// www. szmost.com  Email: szmost@szmost.com

# Test Report

Product Name: LED Day Light Lamp
Model No.: XZ-T8-8W

FCC ID: XE6-XZ-T8-8W00

Applicant:

Sincho Electric Co., Ltd.
104, Sin-Tso Rd, Sin-Yuan Hsiang, Ping-Tung Hsien, 932 Taiwan

Date Received: 13/06/2009

Date Tested: 11-12/06/2009

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**APPLICANT**: Sincho Electric Co., Ltd.

**FCC ID**: XE6-XZ-T8-8W00

**TEST REPORT CONTAINING:**



**EXHIBIT INCLUDED:**

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# EMC Equipment List

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 100492 | Mar 10,2009 | 1 Year |
| LISN | ROHDE&SCHWARZ | ENV216 | 100093 | Mar 10,2009 | 1Year |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 101202 | Mar 10,2009 | 1 Year |
| Spectrum Analyzer | ANRITSU | MS2651B | 6200238316 | Mar 10,2009 | 1 Year |
| 50Ω Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Mar 10,2009 | 1 Year |
| Bilog Antenna | Sunol | JB3 | A121206 | Mar 10,2009 | 1 Year |
| Horn Antenna | EMCO | 3115 | 640201028-06 | Mar 10,2009 | 1 Year |
| 50Ω Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Mar 10,2009 | 1 Year |
| Cable | Resenberger | N/A | NO.1 | Mar 10,2009 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.2 | Mar 10,2009 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.3 | Mar 10,2009 | 1 Year |
| Single Phase Power Line Filter | Kikusui | LIN40MA-PCR-L | LM002352 | Mar 10,2009 | 1Year |
| AC Power Source | Kikusui | AC40MA | LM003232 | Mar 10,2009 | 1Year |
| Test analyzer | Kikusui | KHA1000 | LM003720 | Mar 10,2009 | 1Year |
| ESD Tester | Kikusui | KES4021 | LM003537 | Mar 10,2009 | 1 Year |
| Signal Generator | IFR | 2032 | 203002/100 | Mar 10,2009 | 1 Year |
| Amplifier | A&R | 150W1000 | 301584 | Mar 10,2009 | NCR |
| Dual Directional Coupler | A&R | DC6080 | 301508 | Mar 10,2009 | 1 Year |
| Power Head | A&R | PH2000 | 301193 | Mar 10,2009 | 1 Year |
| Power Meter | A&R | PM2002 | 302799 | Mar 10,2009 | 1 Year |
| Field Monitor | A&R | FM5004 | 300329 | Mar 10,2009 | 1 Year |
| Field Probe | A&R | FP5000 | 300221 | Mar 10,2009 | 1 Year |
| EMCPRO System | EM Test | UCS-500-M4 | V0648102026 | Mar 10,2009 | 1 Year |
| EMCPRO System | EM Test | UCS-500-M4 | V0648102026 | Mar 10,2009 | 1 Year |

Remark:

Test Firm Name: Most Technology Service Co., Ltd.
Test Firm Address:
No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Park,Nanshan, Shenzhen, Guangdong, China
FCC Registered Test Site Number: 490827

**TEST PROCEDURE**

**GENERAL:** This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

**POWER LINE CONDUCTED INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 using a 50uH LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25℃ with a humidity of 58%.

**RADIATION INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25℃ with a humidity of 58%.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:
Freq (MHz) METER READING + ACF + CABLE = FS
33 20 dBuV + 10.36 dB + 0.9 dB= 31.26 dBuV/m @ 3m

**ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES:** The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

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**APPLICANT:** Sincho Electric Co., Ltd.

**FCC ID:** XE6-XZ-T8-8W00

**NAME OF TEST:** POWER LINE CONDUCTED INTERFERENCE

**RULES PART NUMBER:** 18.307, 18.311

**REQUIREMENTS:**

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 * | 56 to 46 * |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency

**TEST PROCEDURE:** ANSI STANDARD C63.4-2003

THE HIGHEST EMISSION READ FOR LINE 1 WAS 57.15dBuV @ 0.202MHz.

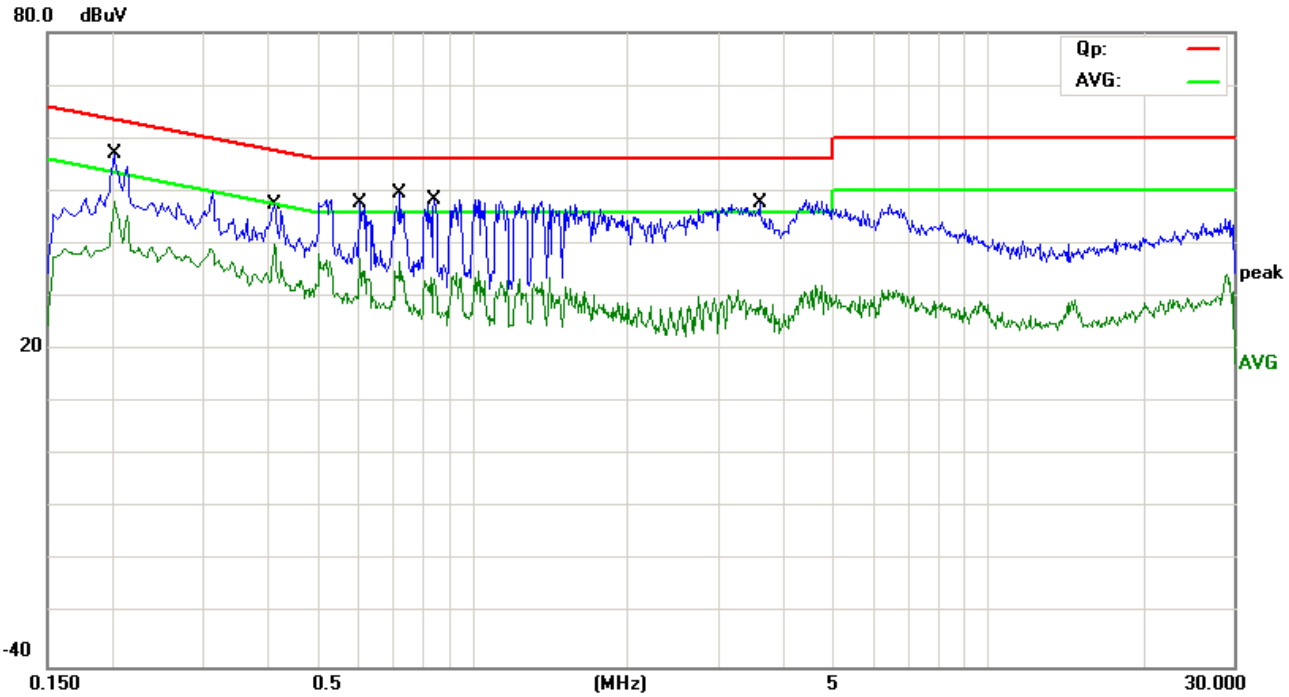
THE HIGHEST EMISSION READ FOR LINE 2 WAS 56.32dBuV @ 0.206MHz.

THE PLOTS ON THE NEXT PAGE REPRESENT THE EMISSIONS READ FOR POWER LINE CONDUCTED FOR THIS DEVICE.

Compliance Laboratory
Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong ,China
Tel: 0755-86170306 Fax: 0755-86170310

## Conducted Emission Measurement

File :Sincho Data :#4 Date: 09/06/12/ Time: 8/43/39




Site site #1 Phase: *L1* Temperature: 26
Limit: FCC Part18 QP Power: AC 120V/60Hz Humidity: 60 %
EUT: LED Day Light Lamp
M/N: XZ-T8-8W
Mode: ON
Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.2020 | 45.16 | 11.99 | 57.15 | 63.53 | -6.38 | QP | |
| 2 | * | 0.2020 | 36.07 | 11.99 | 48.06 | 53.53 | -5.47 | AVG | |
| 3 | | 0.4140 | 36.90 | 10.57 | 47.47 | 57.57 | -10.10 | QP | |
| 4 | | 0.4140 | 29.31 | 10.57 | 39.88 | 47.57 | -7.69 | AVG | |
| 5 | | 0.6060 | 37.73 | 10.00 | 47.73 | 56.00 | -8.27 | QP | |
| 6 | | 0.6060 | 27.16 | 10.00 | 37.16 | 46.00 | -8.84 | AVG | |
| 7 | | 0.7260 | 39.62 | 10.00 | 49.62 | 56.00 | -6.38 | QP | |
| 8 | | 0.7260 | 26.80 | 10.00 | 36.80 | 46.00 | -9.20 | AVG | |
| 9 | | 0.8340 | 38.26 | 10.00 | 48.26 | 56.00 | -7.74 | QP | |
| 10 | | 0.8340 | 23.72 | 10.00 | 33.72 | 46.00 | -12.28 | AVG | |
| 11 | | 3.6100 | 37.22 | 10.61 | 47.83 | 56.00 | -8.17 | QP | |
| 12 | | 3.6100 | 18.78 | 10.61 | 29.39 | 46.00 | -16.61 | AVG | |

*:Maximum data x:Over limit !:over margin

Compliance Laboratory
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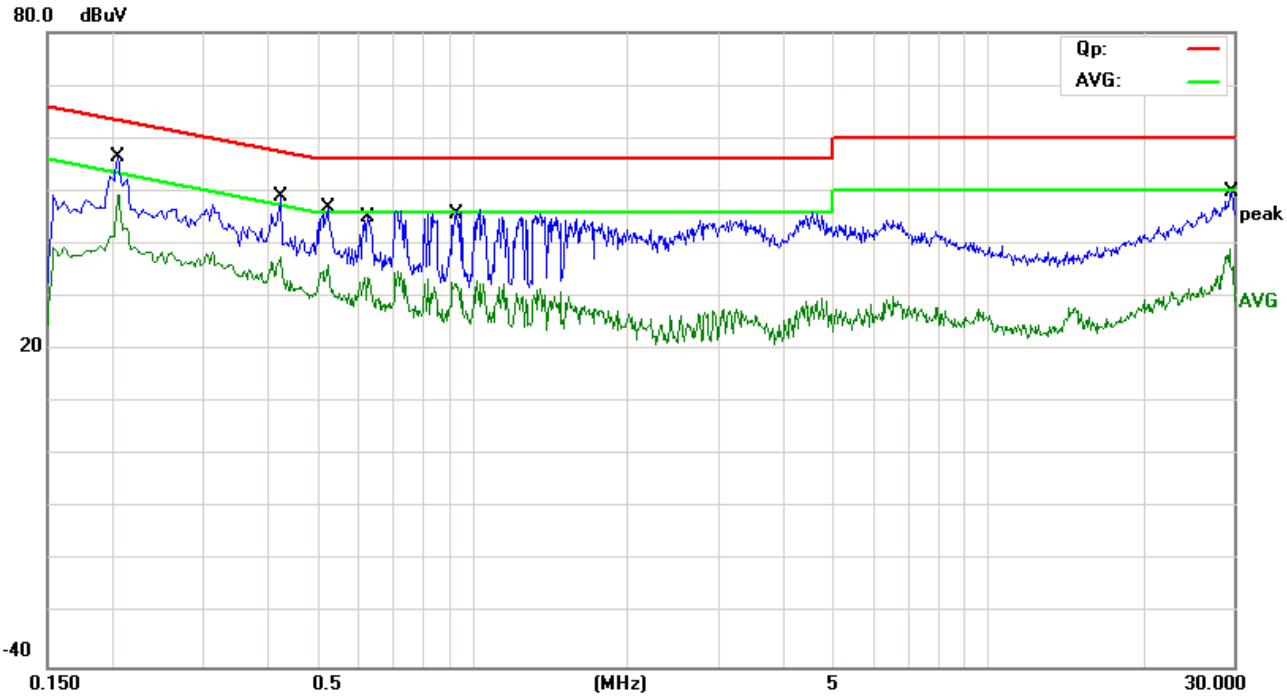
Tel: 0755-86170306 Fax: 0755-86170310

## Conducted Emission Measurement

File :Sincho Data :#5 Date: 09/06/12/ Time: 8/44/44




Site site #1 Phase: ***L1*** Temperature: 26
Limit: FCC Part18 QP Power: AC 120V/60Hz Humidity: 60 %
EUT: LED Day Light Lamp
M/N: XZ-T8-8W
Mode: ON
Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.2060 | 44.36 | 11.96 | 56.32 | 63.37 | -7.05 | QP | |
| 2 | * | 0.2060 | 37.38 | 11.96 | 49.34 | 53.37 | -4.03 | AVG | |
| 3 | | 0.4260 | 38.47 | 10.49 | 48.96 | 57.33 | -8.37 | QP | |
| 4 | | 0.4260 | 27.03 | 10.49 | 37.52 | 47.33 | -9.81 | AVG | |
| 5 | | 0.5265 | 35.23 | 10.00 | 45.23 | 56.00 | -10.77 | QP | |
| 6 | | 0.5265 | 25.68 | 10.00 | 35.68 | 46.00 | -10.32 | AVG | |
| 7 | | 0.6180 | 23.78 | 10.00 | 33.78 | 46.00 | -12.22 | AVG | |
| 8 | | 0.6180 | 35.07 | 10.00 | 45.07 | 56.00 | -10.93 | QP | |
| 9 | | 0.9140 | 22.78 | 10.00 | 32.78 | 46.00 | -13.22 | AVG | |
| 10 | | 0.9140 | 36.11 | 10.00 | 46.11 | 56.00 | -9.89 | QP | |
| 11 | | 29.7900 | 35.60 | 9.00 | 44.60 | 60.00 | -15.40 | QP | |
| 12 | | 29.7900 | 23.30 | 9.00 | 32.30 | 50.00 | -17.70 | AVG | |

*:Maximum data x:Over limit !:over margin

**APPLICANT:** Sincho Electric Co., Ltd.

**FCC ID:** XE6-XZ-T8-8W00

**NAME OF TEST:** RADIATION INTERFERENCE

**RULES PART NUMBER:** 18.305, 18.311

**REQUIREMENTS:**

S18.305
0.009-30 MHz 63.5dBuV/m @3M

Test Data:

**REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.**

| Frequency (MHz) | Emission Level (dBuV/m) | | | FCC 18 Limit (dBuV/m) |
|---|---|---|---|---|
| | Avg | QP | Peak | |
| 0.18 | -- | -- | 15.9 | 63.5 |
| 0.29 | -- | -- | 18.9 | 63.5 |
| 6.18 | -- | -- | 17.7 | 63.5 |
| 20.7 | -- | -- | 21.5 | 63.5 |