

*EXHIBIT 4*

*Test Report*

*Test Report*

*ACS-F98014*

APPLICATION FOR CERTIFICATION  
On Behalf of  
Guangzhou Toyo Electric Corporation  
Electronic Transformer

Model : ET81-60M

Prepared for : Guangzhou Toyo Electric Corporation  
Guangzhou Electric Fan Factory  
Cha Tau, Suburb of Guangzhou  
Guangzhou, China

Prepared By : Audix Technology (Shenzhen) Co., Ltd.  
52 Block, Shenzhen Science & Industrial Park,  
Nantou, Shenzhen, Guangdong, China

Tel: (0755)663-9496

Report Number : ACS-F98014  
Date of Test : Jul. 18, 1998  
Date of Report : Jul. 29, 1998

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TOK98-F052

## TEST REPORT VERIFICATION

Applicant : Guangzhou Toyo Electric Corporation  
Manufacturer : Guangzhou Toyo Electric Corporation  
EUT Description : Electronic Transformer  
(A) MODEL NO. : ET81-60M  
(B) SERIAL NO. : N/A  
(C) POWER SUPPLY : AC 120V / 60Hz. 60W

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 18 SUBPART C RF LIGHTING DEVICES  
CONSUMER (1996) AND MP-5/1986

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC 18 Part RF Lighting Device limits both radiated and conducted emissions.

The measurement results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits. AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. recommends that this data can be submitted for FCC certification purposes if a 6 dB margin below FCC limits is obtained.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test : Jul. 18, 1998

Prepared by :

Katherine Ge 7/29  
(KATHERINE GE)

Project Engineer :

Martin Lu 7/30  
(MARTIN LU)

Approve & Authorized Signer :

Leon Liu 7/31/98  
(LEON LIU)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|              |   |                                                                                                                                                                      |
|--------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description  | : | Electronic Transformer <i>Electronic Transformer</i>                                                                                                                 |
| Model Number | : | ET81-60M                                                                                                                                                             |
| Applicant    | : | Guangzhou Toyo Electric Corporation<br><br>Guangzhou Toyo Electric Corporation<br>Guangzhou Electric Fan Factory<br>Cha Tau, Suburb of Guangzhou<br>Guangzhou, China |
| Manufacturer | : | Guangzhou Toyo Electric Corporation<br><br>Guangzhou Toyo Electric Corporation<br>Guangzhou Electric Fan Factory<br>Cha Tau, Suburb of Guangzhou<br>Guangzhou, China |
| Output Line  | : | Unshielded, Nondetachable, 1.5m                                                                                                                                      |
| Power Cord   | : | Unshielded, Nondetachable, 1.8m                                                                                                                                      |
| Date of Test | : | Jul. 18, 1998                                                                                                                                                        |

## 1.2. Description of Test Facility

|                          |   |                                                                                                            |
|--------------------------|---|------------------------------------------------------------------------------------------------------------|
| Site Description         | : |                                                                                                            |
| 3 meter Anechoic chamber | : | Certificated by FCC, U.S.A<br>Aug. 18, 1997                                                                |
| 3 and 10 meter open site | : | Certificated by FCC, U.S.A<br>Feb. 13, 1998                                                                |
| EMC Lab.                 | : | Certificated by TUV Rheinland Taiwan<br>Dec. 05, 1995                                                      |
|                          |   | Certificated by COMMERCE, New Zealand<br>May. 19, 1997                                                     |
|                          | : | Certificated by NEMKO, Norway<br>Feb. 28, 1998                                                             |
| Name of Firm             | : | Audix Technology (Shenzhen) Co., Ltd.                                                                      |
| Site Location            | : | No. 6, Ke Feng Rd., 52 Block,<br>Shenzhen Science & Industrial Park,<br>Nantou, Shenzhen, Guangdong, China |

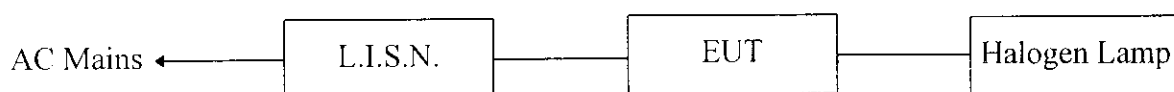
## 2. POWER LINE CONDUCTED MEASUREMENT

### 2.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

| Item | Type          | Manufacturer    | Model No. | Serial No. | Last Cal.   | Cal. Interval |
|------|---------------|-----------------|-----------|------------|-------------|---------------|
| 1.   | Test Receiver | Rohde & Schwarz | ESHS20    | 836600/006 | Jun. 07, 98 | 1 Year        |
| 2.   | L.I.S.N.      | Kyoritsu        | KMW-407   | 8-541-4    | Jun. 07, 98 | 1 Year        |

### 2.2. Block Diagram of Test Setup



(EUT: Electronic Transformer)

### 2.3. Conducted Power Line Emission Limit

| Frequency<br>MHz | Limit<br>dB(μV) |
|------------------|-----------------|
| 0.45 ~ 30        | 48              |

### 2.4. EUT Configuration on Measurement

The following equipments are installed on RF LINE VOLTAGE measurement to meet the FCC 18 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

#### 2.4.1. Electronic Transformer ( EUT)

Model Number : ET81-60M  
 Serial Number : N/A  
 Manufacturer : Guangzhou Toyo Electric Corporation

### 2.5. Operating Condition of EUT

2.5.1. Setup the EUT as shown in Section 2.2.

2.5.2. Turn on the power of all equipments.

2.5.3. Let the EUT works in test mode (Output 60W) and measure it.

## 2.6. Test Procedure

The EUT is put on table which is 0.8m above the ground and away from other metallic surface at least 0.4m. The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the tested equipments. Both sides of AC line(Line & Neutral) are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables must be changed according to MP-5/1986 on conducted measurement.

The bandwidth of the test receiver (R & S ESHS20) is set at 10KHz.

The frequency range from 450KHz to 30MHz is checked.

All the test results are listed in Section 2.7. and all the scanning waveforms are attached within Appendix I.

## 2.7. Line Conducted RF Voltage Measurement Results

**PASS.**

The frequency range from 450KHz to 30 MHz is investigated.

All emissions not reported below are too low against the prescribed limits.

Date of Test : Jul. 18, 1998 Temperature : 26 °C

EUT : Electronic Transformer Humidity : 54 %

Model No. : ET81-60M Working Condition : Output 60W

| Frequency<br>MHz | Reading            |                    | Limit<br>dB(μV) |
|------------------|--------------------|--------------------|-----------------|
|                  | Phase VA<br>dB(μV) | Phase VB<br>dB(μV) |                 |
| 0.450            | 37.3               | 36.4               | 48.0            |
| 0.872            | 36.3               | --                 | 48.0            |
| 0.922            | --                 | 36.3               | 48.0            |
| 1.830            | --                 | 35.7               | 48.0            |
| 2.660            | 37.6               | --                 | 48.0            |
| 3.590            | --                 | 32.3               | 48.0            |
| 3.770            | 33.1               | --                 | 48.0            |
| <b>27.210</b>    | <b>41.0</b>        | --                 | <b>48.0</b>     |
| 27.320           | --                 | 4.2                | 48.0            |

Remark : 1. All readings are Quasi-Peak values.  
 2. The worst emission is detected at 27.210 MHz with corrected signal level of 41.0 dB(μV) (limit is 48.0 dB(μV)) when the VA side of the EUT is connected to L.I.S.N.

### 3. RADIATED EMISSION MEASUREMENT

#### 3.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

##### 3.1.1. In Chamber #3

| Item | Equipment         | Manufacturer | Model No. | Serial No. | Last Cal.   | Cal. Interval |
|------|-------------------|--------------|-----------|------------|-------------|---------------|
| 1.   | EMI Test Receiver | HP           | 85422E    | 3625A00181 | Jun. 07, 98 | 1 Year        |
| 2.   | Amplifier         | HP           | 8447D     | 2944A07794 | Jun. 07, 98 | 1/2 Year      |
| 3.   | Bilog Antenna     | Chase        | CBL6112A  | 2176       | Sep. 27, 97 | 1 Year        |
| 4.   | Computer          | N/A          | N/A       | N/A        | N/A         | N/A           |
| 5.   | Printer           | NEC          | P3800     | 568101448  | N/A         | N/A           |

#### 3.2. Block Diagram of Test Setup

##### 3.2.1. Block Diagram of EUT

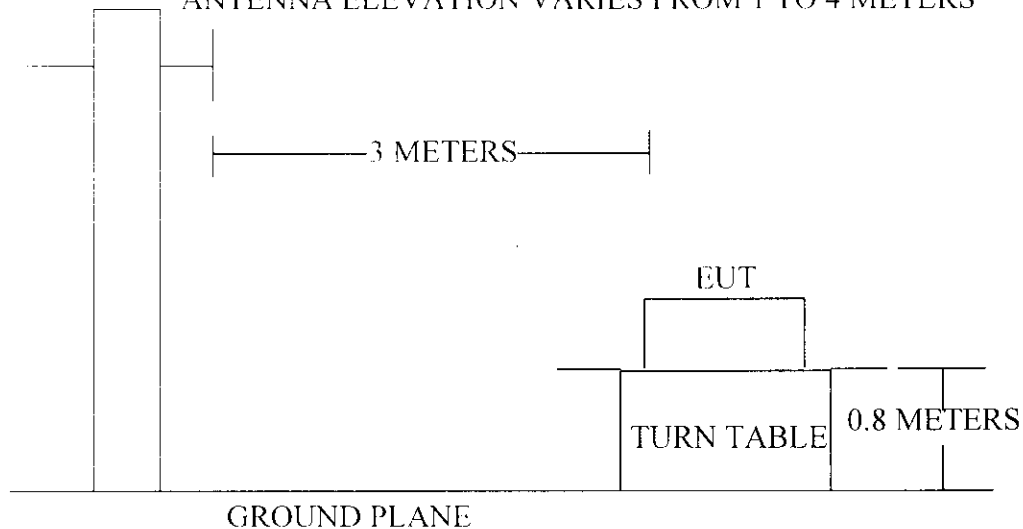


*(EUT: Electronic Transformer)*

##### 3.2.2. Chamber #3 Test Setup Diagram

ANTENNA TOWER

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



### 3.3. Radiation Limit

| FREQUENCY<br>MHz | DISTANCE<br>Meters | FIELD STRENGTHS LIMITS<br>dB( $\mu$ V)/m |
|------------------|--------------------|------------------------------------------|
| 30 ~ 88          | 3                  | 40.0                                     |
| 88 ~ 216         | 3                  | 43.5                                     |
| 216 ~ 1000       | 3                  | 46.0                                     |

Remark : (1) The tighter limit shall apply at the edge between two frequency bands.  
 (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

### 3.4. EUT Configuration on Measurement

The configuration of EUT is same as those used in conducted measurement. Please refer to Section 2.4.

### 3.5. Operating Condition of EUT

Same as conducted measurement which is listed in Section 2.5.

### 3.6. Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

The Resolution bandwidth setting on the EMI test receiver(HP 85422E) is set at 120KHz.

The frequency range from 30MHz to 1000MHz is checked.

All the test results are listed in Section 3.7. and all the scanning waveforms are attached within Appendix II.

## 3.7. Radiated Emission Noise Measurement Results.

**PASS.**

The frequency range from 30MHz to 1000MHz is investigated. Please see the following pages.

Date of Test : Jul. 20, 1998 Temperature : 26 °C  
 EUT : Electronic Transformer Humidity : 54%  
 Model No. : ET81-60M Operation Mode : Output 60W

| Frequency<br>MHz | Antenna<br>Factor<br>dB | Cable<br>Loss<br>dB | Meter Reading<br>Horizontal<br>dB | Emission Level<br>Horizontal<br>dBμV/m | Over Limits<br>dBμV/m | Limits<br>dBμV/m |
|------------------|-------------------------|---------------------|-----------------------------------|----------------------------------------|-----------------------|------------------|
| 30.000           | 19.49                   | 0.90                | 8.20                              | 28.59                                  | -11.41                | 40.00            |
| 48.013           | 8.35                    | 1.17                | 19.30                             | 28.82                                  | -11.18                | 40.00            |
| 60.805           | 5.31                    | 1.34                | 26.50                             | 33.15                                  | -6.85                 | 40.00            |
| 68.973           | 5.92                    | 1.46                | 18.60                             | 25.98                                  | -14.02                | 40.00            |
| 120.015          | 13.41                   | 1.93                | 9.60                              | 24.94                                  | -18.56                | 43.50            |
| 160.140          | 10.90                   | 2.23                | 7.10                              | 20.23                                  | -23.27                | 43.50            |
| 183.863          | 9.73                    | 2.45                | 7.50                              | 19.68                                  | -23.82                | 43.50            |

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

Date of Test : Jul. 20, 1998 Temperature : 26 °C  
 EUT : Electronic Transformer Humidity : 54%  
 Model No. : ET81-60M Operation Mode : Output 60W

| Frequency<br>MHz | Antenna<br>Factor<br>dB | Cable<br>Loss<br>dB | Meter Reading<br>Vertical<br>dB | Emission Level<br>Vertical<br>dBμV/m | Over Limits<br>dBμV/m | Limits<br>dBμV/m |
|------------------|-------------------------|---------------------|---------------------------------|--------------------------------------|-----------------------|------------------|
| 30.000           | 12.87                   | 0.90                | 21.00                           | 34.77                                | -5.23                 | 40.00            |
| 48.240           | 5.31                    | 1.18                | 24.50                           | 30.99                                | -9.01                 | 40.00            |
| 58.988           | 5.37                    | 1.33                | 23.50                           | 30.20                                | -9.80                 | 40.00            |
| 68.738           | 7.34                    | 1.46                | 19.10                           | 27.89                                | -12.11                | 40.00            |
| 98.490           | 11.97                   | 1.76                | 9.60                            | 23.32                                | -20.18                | 43.50            |
| 119.310          | 12.20                   | 1.93                | 11.30                           | 25.43                                | -18.07                | 43.50            |
| 181.730          | 8.83                    | 2.41                | 7.30                            | 18.54                                | -24.96                | 43.50            |

Remark: 1. All readings are Quasi-Peak values.

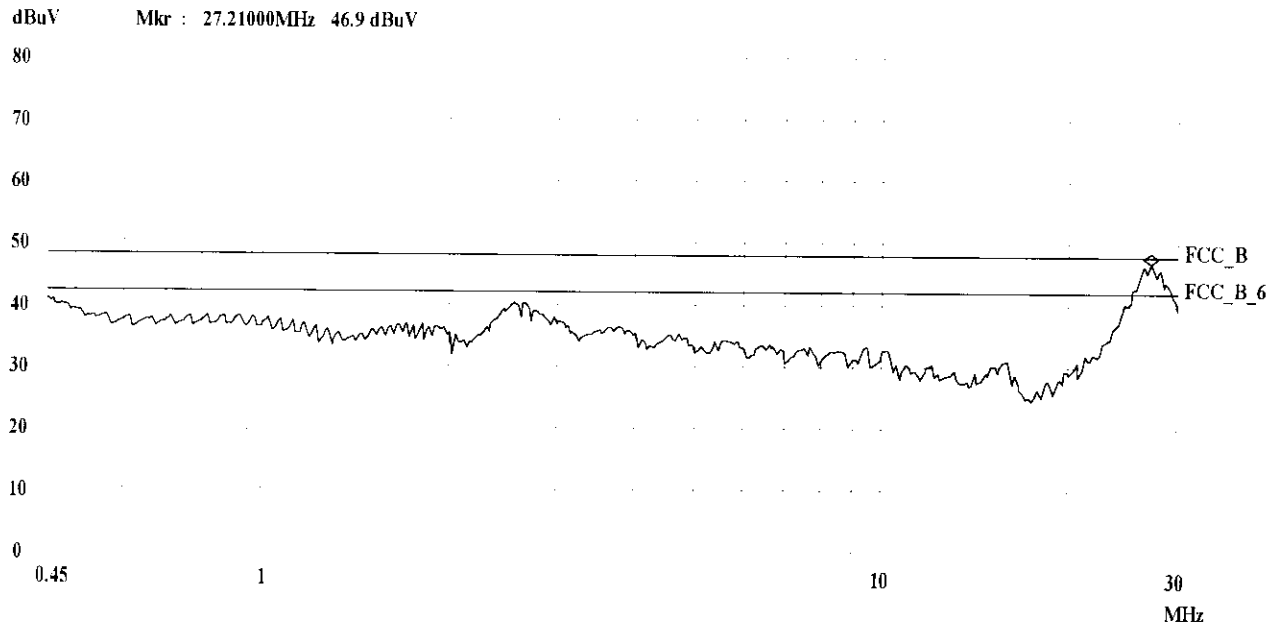
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

# **APPENDIX I**

# Conduction Test FCC Part18

18. Jul 98 09:27

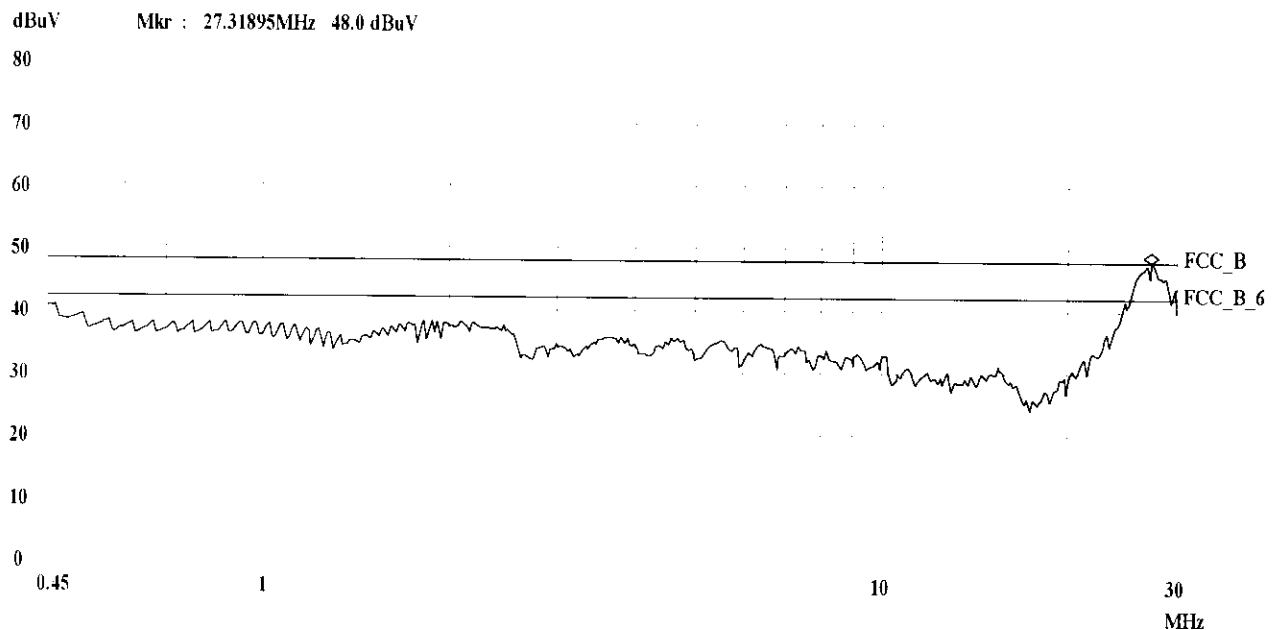
EUT: Electronic Transformer M/N:ET81-60M  
Manuf: TOYO  
Op Cond: Output 60W  
Operator: Houny  
Test Spec: Va 120V/60Hz  
Comment: Temp:26°C  
Humi:54%



# Conduction Test FCC Part18

18. Jul 98 09:35

EUT: Electronic Transformer M/N:ET81-60M  
Manuf: TOYO  
Op Cond: Output 60W  
Operator: Houny  
Test Spec: Vb 120V/60Hz  
Comment: Temp:26°C  
Humi:54%



## **APPENDIX II**



Date: 07-10-2018 Time: 09:12:05  
User: h3 Standard Member

Date: 07-10-2018 Time: 09:12:05  
AUDIX Technology (Shenzhen) Co., Ltd.

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