

Application for FCC Certificate  
On Behalf of  
Fujian Joinluck Electronic Enterprise Co., Ltd.

Electronic Energy Saving Lamp

Model No.: JLC 7-18 Candle 7W  
JLC 7-18 Candle 9W  
JLC 7-18 Candle 11W

FCC ID: N6AFJEE0110

Prepared For : Fujian Joinluck Electronic Enterprise Co., Ltd.  
Cangshan Industrial Area, Cangshan District,  
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Prepared By : Audix Technology (Shanghai) Co., Ltd.  
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Report No. : ACI-F01105  
Date of Test : Oct 22 ~ Dec 03, 2001  
Date of Report : Dec 18, 2001

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## TEST REPORT FOR FCC CERTIFICATE

Applicant : Fujian Joinluck Electronic Enterprise Co., Ltd.  
Manufacturer : Fujian Joinluck Electronic Enterprise Co., Ltd.  
EUT Description : Electronic Energy Saving Lamp  
(A) Model No.:  
JLC 7-18 Candle 7W  
JLC 7-18 Candle 9W  
JLC 7-18 Candle 11W  
(B) Serial No.:  
N/A  
(C) Power Supply: 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 18 CONSUMER DEVICES (2000)*  
*AND MP-5/1986*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 18 RF Lighting Device limits both conducted emissions and field strength.

The test results are contained in this test report and Audix Technology (Shanghai) 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.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report must not be used by the applicant to claim product endorsement by NVLAP or any agency of the U.S. Government.

**Date of Test :** Oct 22 ~ Dec 03, 2001

|               |                                                  |                      |                                                      |
|---------------|--------------------------------------------------|----------------------|------------------------------------------------------|
| Prepared by : | <u>Stella Tang</u><br>STELLA TANG<br>(Assistant) | Test Engineer :      | <u>Nill Yee</u><br>NILL YEE<br>(Engineer)            |
| Reviewer :    | <u>Byron Kwo</u><br>BYRON KWO<br>(Supervisor)    | Approved Signatory : | <u>Alex Chiu</u><br>ALEX CHIU<br>(Assistant Manager) |

# 1 GENERAL INFORMATION

## 1.1 Description of Equipment Under Test

Description : Electronic Energy Saving Lamp

Type of EUT : ☒ Production ☐ Pre-product ☐ Pro-type

Model Number : JLC 7-18 Candle 7W  
JLC 7-18 Candle 9W  
JLC 7-18 Candle 11W

Applicant : Fujian Joinluck Electronic Enterprise Co., Ltd.  
Cangshan Industrial Area, Cangshan District,  
Fuzhou, Fujian, China

Manufacturer : Fujian Joinluck Electronic Enterprise Co., Ltd.  
Cangshan Industrial Area, Cangshan District,  
Fuzhou, Fujian, China

Frequency range : 41kHz ~ 43kHz

| M/N                 | Apparent Power<br>(VA) | Real Power<br>(W) |
|---------------------|------------------------|-------------------|
| JLC 7-18 Candle 7W  | 14.5                   | 7.2               |
| JLC 7-18 Candle 9W  | 16.6                   | 8.8               |
| JLC 7-18 Candle 11W | 22.5                   | 11.3              |

## 1.2 Description of Test Facility

Site Description : Sept. 17, 1998 file on  
(Semi-Anechoic Chamber) Federal Communications Commission  
FCC Engineering Laboratory  
7435 Oakland Mills Road  
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F 34Bldg 680 Guiping Rd,  
Caohejing Hi-Tech Park,  
Shanghai, China 200233

NVLAP Lab Code : 200371-0

## 1.3 Measurement Uncertainty

Conducted Emission Uncertainty :  $U = \pm 2.66\text{dB}$

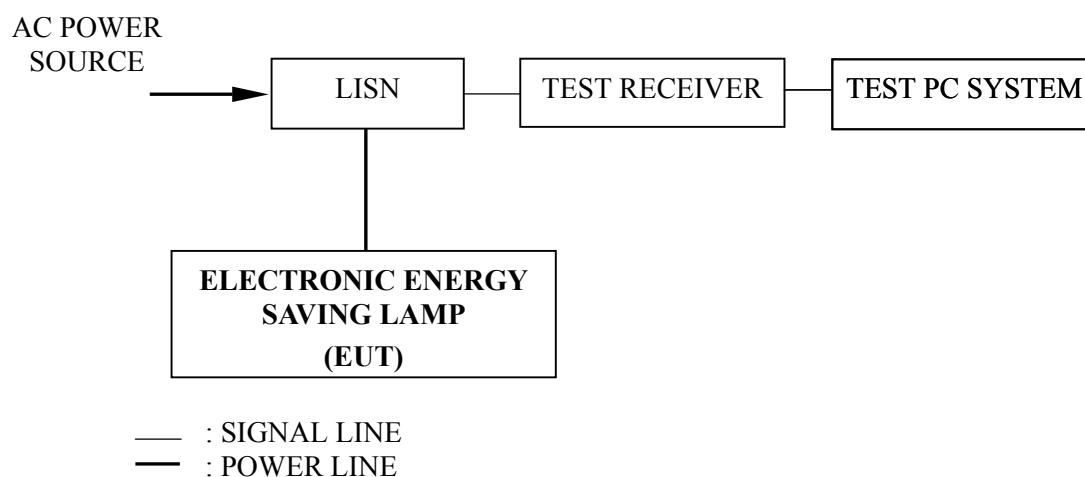
## 2 AC POWERLINE CONDUCTED EMISSION TEST

### 2.1 Test Equipment

The following test equipment are used during the powerline conducted emission test in a shielded room:

| Item | Type                                        | Manufacturer    | Model No. | Serial No. | Last Cal.    | Cal. Interval |
|------|---------------------------------------------|-----------------|-----------|------------|--------------|---------------|
| 1.   | Test Receiver                               | Rohde & Schwarz | ESHS10    | 844077/020 | Apr 24, 2001 | 1 Year        |
| 2.   | Line Impedance Stabilization Network (LISN) | Kyoritsu        | KNW-407   | 8-1280-5   | May 08, 2001 | 1 Year        |

### 2.2 Block Diagram of Test Setup



### 2.3 Conducted Emission Limits

| Frequency (MHz)                                                                                                                                                     | Maximum RF Line Voltage |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------|
|                                                                                                                                                                     | ( $\mu$ V)              | dB( $\mu$ V) |
| 0.45 ~ 2.51                                                                                                                                                         | 250                     | 48           |
| 2.51 ~ 3                                                                                                                                                            | 3000                    | 70           |
| 3 ~ 30                                                                                                                                                              | 250                     | 48           |
| NOTE 1 – RF Line Voltage dB ( $\mu$ V) = 20 log RF Line Voltage ( $\mu$ V)<br>NOTE 2 – The tighter limits shall apply at the boundary between two frequency ranges. |                         |              |

## 2.4 Test Configuration

The EUT (listed in Sec. 1.1) was installed as shown on Sec. 2.2 to meet FCC requirement and operating in a manner which tends to maximize its emission level in a normal application.

## 2.5 Operating Condition of EUT

The EUT was connected to the power mains through a Line Impedance Stabilization Network (LISN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to MP-5/1986 during conducted emission test.

The IF bandwidth of Test Receiver ESHS10 was set at 10 kHz.

The frequency range from 450 kHz to 30 MHz was checked.

The test mode (Lighting) was done on conducted test and the test results of the highest emissions are listed in Sec. 2.7.

## 2.6 Test Procedures

2.6.1 Setup the EUT as shown in Sec. 2.2.

2.6.2 Turn on the power of all equipment.

2.6.3 The EUT will be operated normally.

## 2.7 Test Results

< PASS >

The frequency and amplitude of the highest AC powerline conducted emissions relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

EUT : Electronic Energy Saving Lamp      Temperature : 21.8°C

Model No. : JLC 7-18 Candle 7W      Humidity : 53%

Test Mode : Lighting      Date of Test : Oct 22, 2001

| Test Line                                                                                                                                                                                                                                                                                                                 | Frequency (MHz) | Factor (dB) | Meter Reading dB(μV) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------|-----------------------|---------------|-------------|
| VA                                                                                                                                                                                                                                                                                                                        | <b>0.458</b>    | <b>0.06</b> | <b>43.22</b>         | <b>43.28</b>          | <b>48.00</b>  | <b>4.72</b> |
|                                                                                                                                                                                                                                                                                                                           | 0.539           | 0.05        | 37.64                | 37.69                 | 48.00         | 10.31       |
|                                                                                                                                                                                                                                                                                                                           | 0.627           | 0.04        | 35.41                | 35.45                 | 48.00         | 12.55       |
|                                                                                                                                                                                                                                                                                                                           | 0.870           | 0.04        | 35.28                | 35.32                 | 48.00         | 12.68       |
|                                                                                                                                                                                                                                                                                                                           | 1.228           | 0.05        | 33.28                | 33.33                 | 48.00         | 14.67       |
|                                                                                                                                                                                                                                                                                                                           | 1.446           | 0.05        | 32.58                | 32.63                 | 48.00         | 15.37       |
| VB                                                                                                                                                                                                                                                                                                                        | 0.460           | 0.09        | 42.54                | 42.63                 | 48.00         | 5.37        |
|                                                                                                                                                                                                                                                                                                                           | 0.539           | 0.09        | 32.36                | 32.45                 | 48.00         | 15.55       |
|                                                                                                                                                                                                                                                                                                                           | 0.622           | 0.08        | 32.23                | 32.31                 | 48.00         | 15.69       |
|                                                                                                                                                                                                                                                                                                                           | 0.870           | 0.08        | 31.70                | 31.78                 | 48.00         | 16.22       |
|                                                                                                                                                                                                                                                                                                                           | 0.950           | 0.08        | 31.43                | 31.51                 | 48.00         | 16.49       |
|                                                                                                                                                                                                                                                                                                                           | 1.404           | 0.09        | 29.95                | 30.04                 | 48.00         | 17.96       |
| NOTE 1 – Emission Level = Meter Reading + Factor<br>NOTE 2 – Factor = Insertion Loss + Cable Loss<br>NOTE 3 – All reading are Quasi-Peak Values.<br>NOTE 4 – The worst emission is detected at 0.458 MHz with corrected signal level of 43.28dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN. |                 |             |                      |                       |               |             |

TEST ENGINEER: Nill Yee  
(NILL YEE)

EUT : Electronic Energy Saving Lamp Temperature : 21.8°C

Model No. : JLC 7-18 Candle 9W Humidity : 53%

Test Mode : Lighting Date of Test : Oct 22, 2001

| Test Line                                                                                                                                                                                                                                                                                                                                    | Frequency (MHz) | Factor (dB) | Meter Reading dB(μV) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------|-----------------------|---------------|-------------|
| VA                                                                                                                                                                                                                                                                                                                                           | <b>0.456</b>    | <b>0.07</b> | <b>44.60</b>         | <b>44.67</b>          | <b>48.00</b>  | <b>3.33</b> |
|                                                                                                                                                                                                                                                                                                                                              | 0.494           | 0.06        | 37.67                | 37.73                 | 48.00         | 10.27       |
|                                                                                                                                                                                                                                                                                                                                              | 0.537           | 0.05        | 37.39                | 37.44                 | 48.00         | 10.56       |
|                                                                                                                                                                                                                                                                                                                                              | 0.579           | 0.05        | 36.54                | 36.59                 | 48.00         | 11.41       |
|                                                                                                                                                                                                                                                                                                                                              | 0.665           | 0.03        | 31.49                | 31.52                 | 48.00         | 16.48       |
|                                                                                                                                                                                                                                                                                                                                              | 0.824           | 0.04        | 31.71                | 31.75                 | 48.00         | 16.25       |
| VB                                                                                                                                                                                                                                                                                                                                           | 0.454           | 0.10        | 44.09                | 44.19                 | 48.00         | 3.81        |
|                                                                                                                                                                                                                                                                                                                                              | 0.498           | 0.09        | 41.62                | 41.71                 | 48.00         | 6.29        |
|                                                                                                                                                                                                                                                                                                                                              | 0.539           | 0.09        | 40.06                | 40.15                 | 48.00         | 7.85        |
|                                                                                                                                                                                                                                                                                                                                              | 0.599           | 0.08        | 38.53                | 38.61                 | 48.00         | 9.39        |
|                                                                                                                                                                                                                                                                                                                                              | 0.648           | 0.08        | 37.69                | 37.77                 | 48.00         | 10.23       |
|                                                                                                                                                                                                                                                                                                                                              | 0.736           | 0.08        | 37.94                | 38.02                 | 48.00         | 9.98        |
| <p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.456 MHz with corrected signal level of 44.67dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.</p> |                 |             |                      |                       |               |             |

TEST ENGINEER: Nill Yee  
(NILL YEE)



EUT : Electronic Energy Saving Lamp Temperature : 21.8°C

Model No. : JLC 7-18 Candle 11W Humidity : 53%

Test Mode : Lighting Date of Test : Nov 30, 2001

| Test Line                                                                                                                                                                                                                                                                                                                                    | Frequency (MHz) | Factor (dB) | Meter Reading dB(μV) | Emission Level dB(μV) | Limits dB(μV) | Margin (dB)  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------|-----------------------|---------------|--------------|
| VA                                                                                                                                                                                                                                                                                                                                           | 0.470           | 0.06        | 33.16                | 33.22                 | 48.00         | 14.78        |
|                                                                                                                                                                                                                                                                                                                                              | <b>0.515</b>    | <b>0.06</b> | <b>37.36</b>         | <b>37.42</b>          | <b>48.00</b>  | <b>10.58</b> |
|                                                                                                                                                                                                                                                                                                                                              | 0.562           | 0.05        | 30.92                | 30.97                 | 48.00         | 17.03        |
|                                                                                                                                                                                                                                                                                                                                              | 0.666           | 0.03        | 33.68                | 33.71                 | 48.00         | 14.29        |
|                                                                                                                                                                                                                                                                                                                                              | 0.718           | 0.03        | 32.00                | 32.03                 | 48.00         | 15.97        |
|                                                                                                                                                                                                                                                                                                                                              | 0.808           | 0.04        | 33.43                | 33.47                 | 48.00         | 14.53        |
| VB                                                                                                                                                                                                                                                                                                                                           | 0.485           | 0.09        | 32.24                | 32.33                 | 48.00         | 15.67        |
|                                                                                                                                                                                                                                                                                                                                              | 0.518           | 0.09        | 36.84                | 36.93                 | 48.00         | 11.07        |
|                                                                                                                                                                                                                                                                                                                                              | 0.568           | 0.09        | 30.40                | 30.49                 | 48.00         | 17.51        |
|                                                                                                                                                                                                                                                                                                                                              | 0.725           | 0.08        | 33.20                | 33.28                 | 48.00         | 14.72        |
|                                                                                                                                                                                                                                                                                                                                              | 0.804           | 0.08        | 33.83                | 33.91                 | 48.00         | 14.09        |
|                                                                                                                                                                                                                                                                                                                                              | 0.902           | 0.08        | 32.16                | 32.24                 | 48.00         | 15.76        |
| <p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.515 MHz with corrected signal level of 37.42dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.</p> |                 |             |                      |                       |               |              |

TEST ENGINEER: Nill Yee  
(NILL YEE)

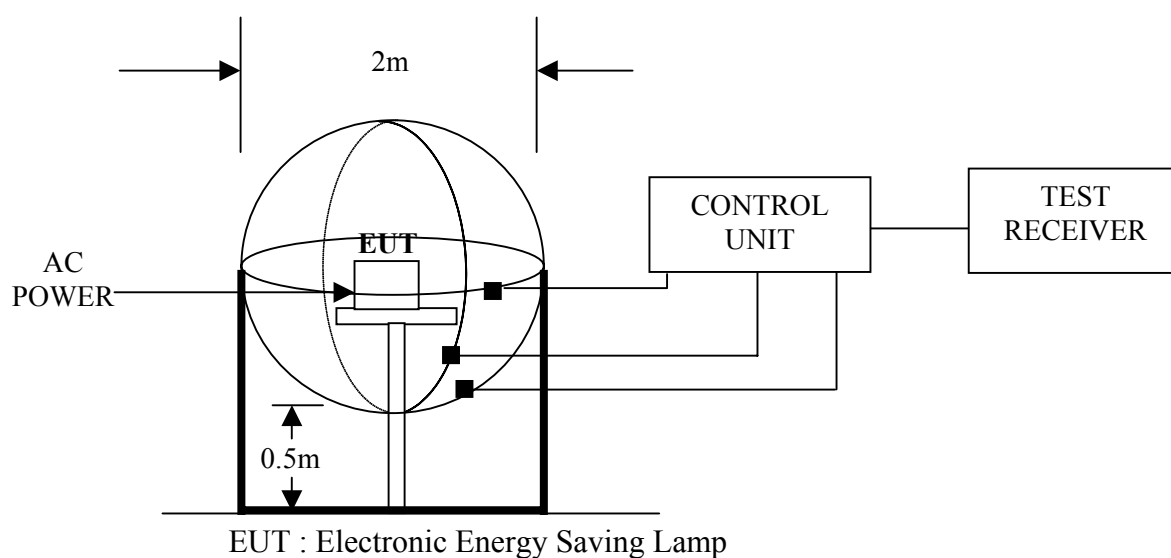
### 3 FIELD STRENGTH TEST

#### 3.1 Test Equipment

The following test equipment are used during the field strength test in a shielded room:

| Item | Type          | Manufacturer    | Model No. | Serial No. | Last Cal.    | Cal. Interval |
|------|---------------|-----------------|-----------|------------|--------------|---------------|
| 1.   | Loop Antenna  | Laplace         | RF300     | 5001       | Oct 25, 2001 | 1/2 Year      |
| 2.   | Test Receiver | Rohde & Schwarz | ESHS10    | 844077/020 | Apr 24, 2001 | 1 Year        |

#### 3.2 Block Diagram of Test Setup



#### 3.3 Test Configuration

The configuration of the EUT is same as those used in conducted emission test. Refer to Sec. 2.4, except the test setup replaced by Sec. 3.2.

#### 3.4 Operating Condition of EUT

Same as conducted emission test which is listed in Sec. 2.5, except the test setup replaced by Sec. 3.2.

### 3.5 Test Procedure

The EUT was placed on a wooden table, which is in the center of the loop antenna. The loop antenna is 0.5 meters above the ground. Each side had one sensor. The three sensors were through the control unit to connect the Test receiver, which receiving the emission and find out the maximum emission of each side of the loop antenna.

The IF bandwidth of R&S Test Receiver ESHS10 was set at 200 Hz from 9kHz to 150kHz and 10kHz from 150 kHz to 30 MHz.

The IF frequency range from 9 kHz to 30 MHz was checked.

The test mode (Lighting) was done on field strength test and all the test results are listed in Sec. 3.6.

### 3.6 Test Result

<PASS>

Refer to the following pages.

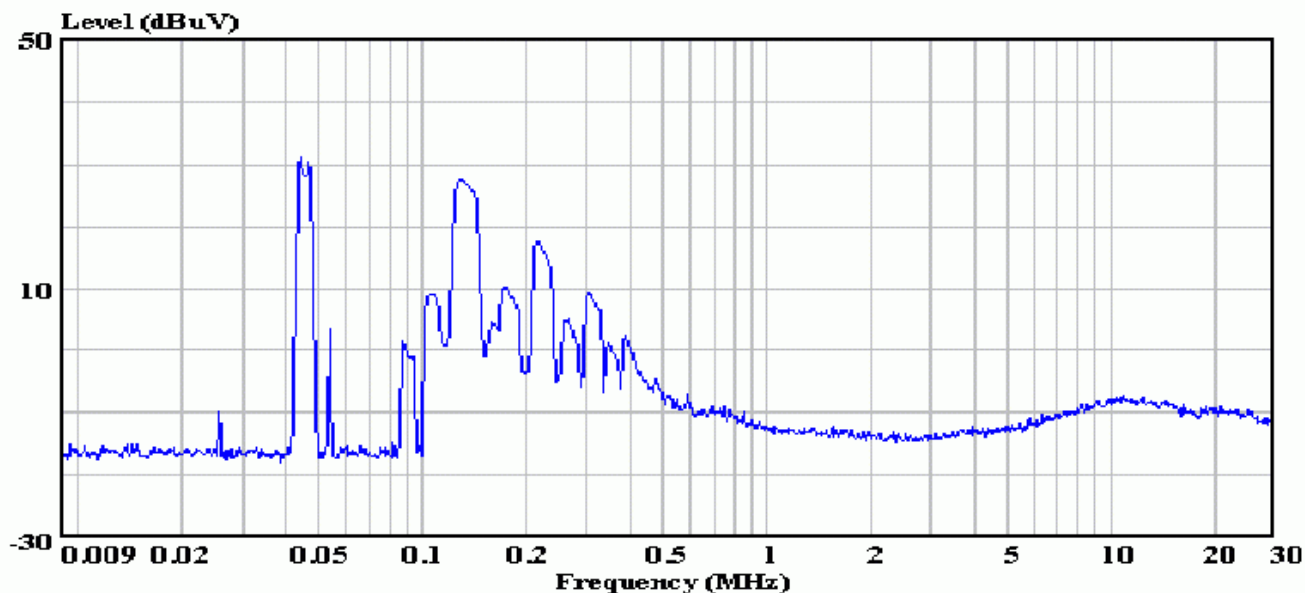


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audixaci@8848.net

Data#: 411 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 14:44:47



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000119  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLC7-18 Candle 7W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : A  
Test Mode : Lighting  
Test Engineer: NILL

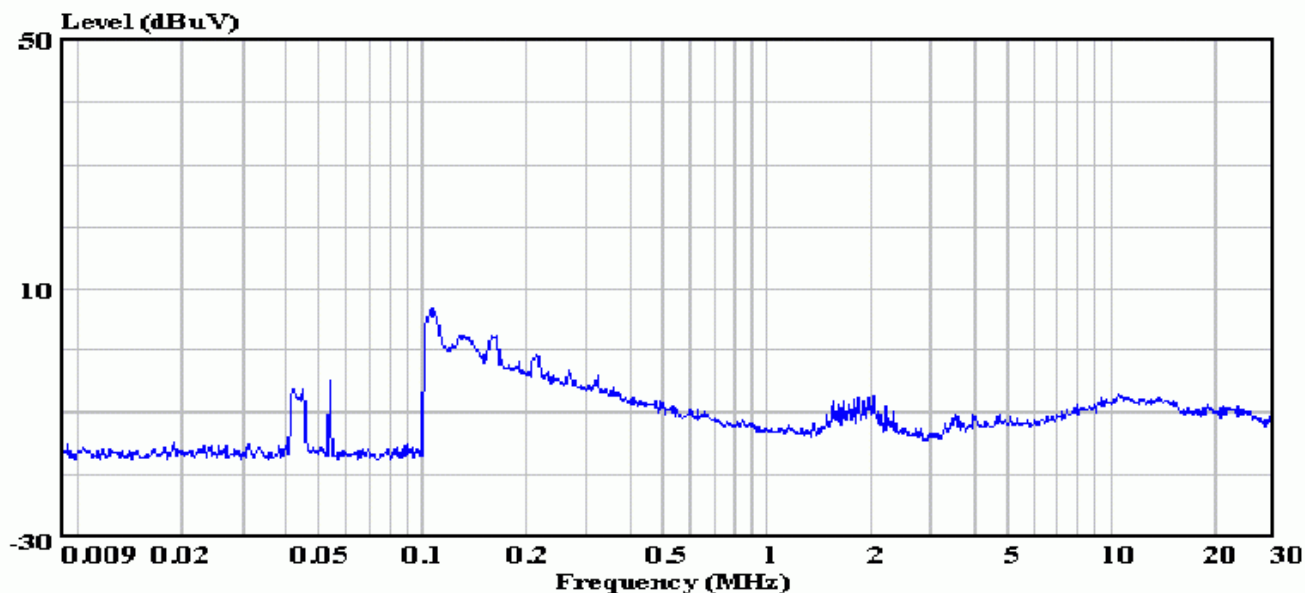


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audixaci@8848.net

Data#: 413 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 14:54:34



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000119  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLC7-18 Candle 7W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : B  
Test Mode : Lighting  
Test Engineer: NILL

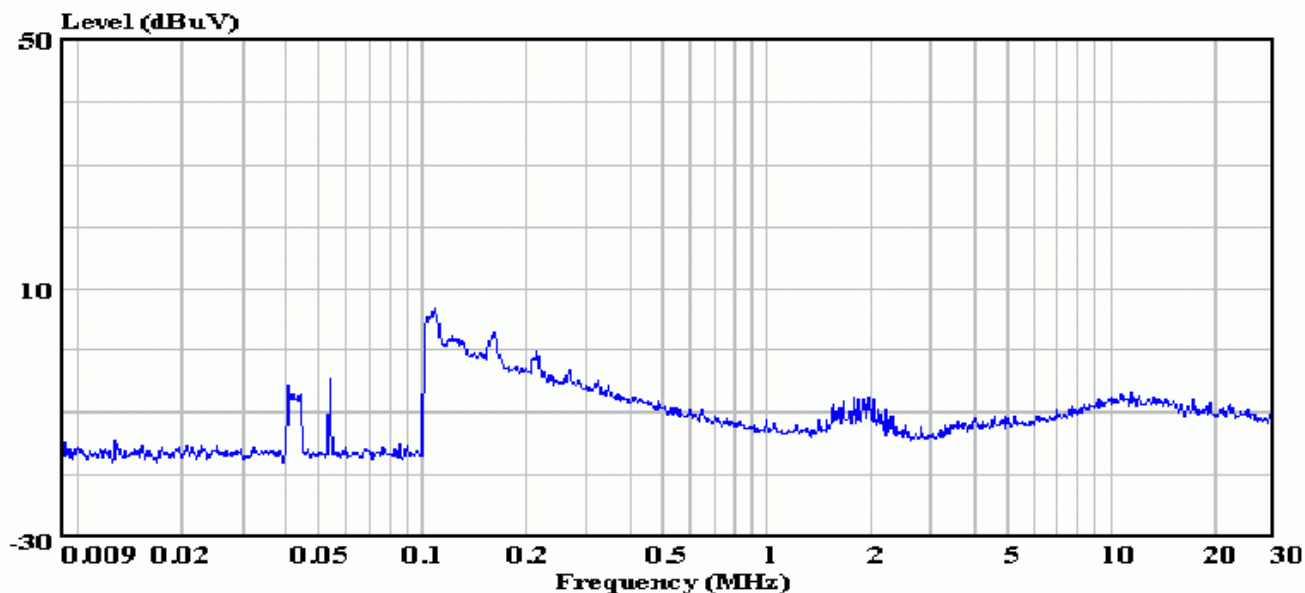


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Data#: 416 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 15:03:02



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000119  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLC7-18 Candle 7W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : C  
Test Mode : Lighting  
Test Engineer: NILL

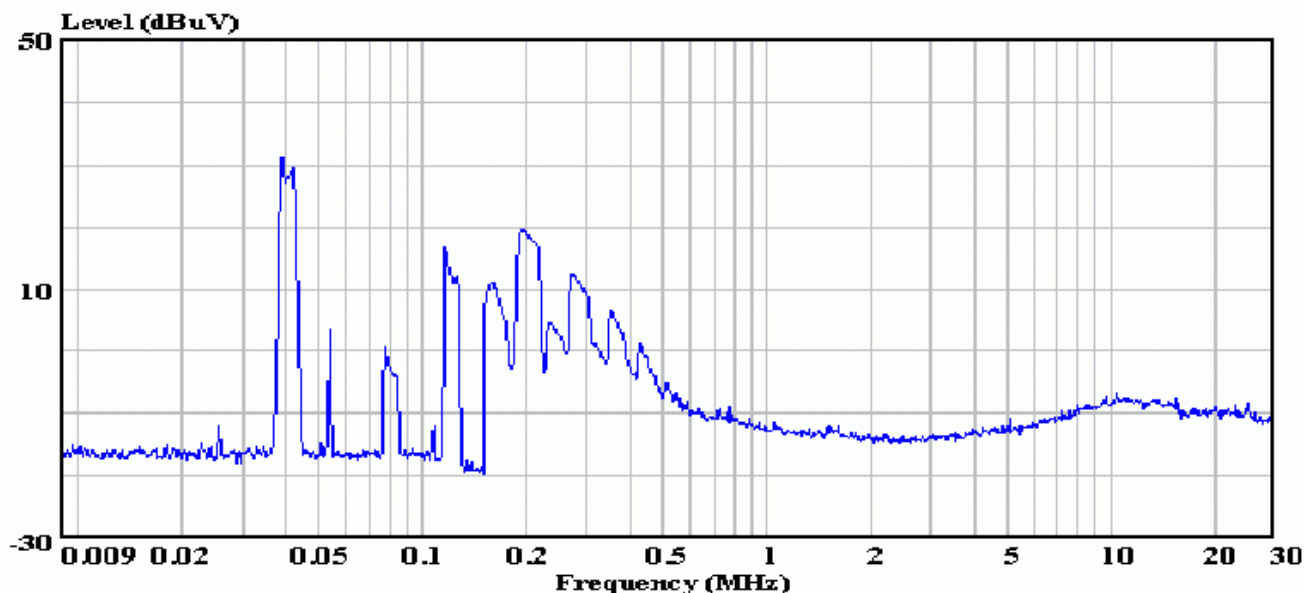


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Data#: 425 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 15:25:55



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000119  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLC7-18 Candle 9W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : A  
Test Mode : Lighting  
Test Engineer: NILL



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Data#: 422 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 15:23:02



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000119  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLC7-18 Candle 9W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : B  
Test Mode : Lighting  
Test Engineer: NILL



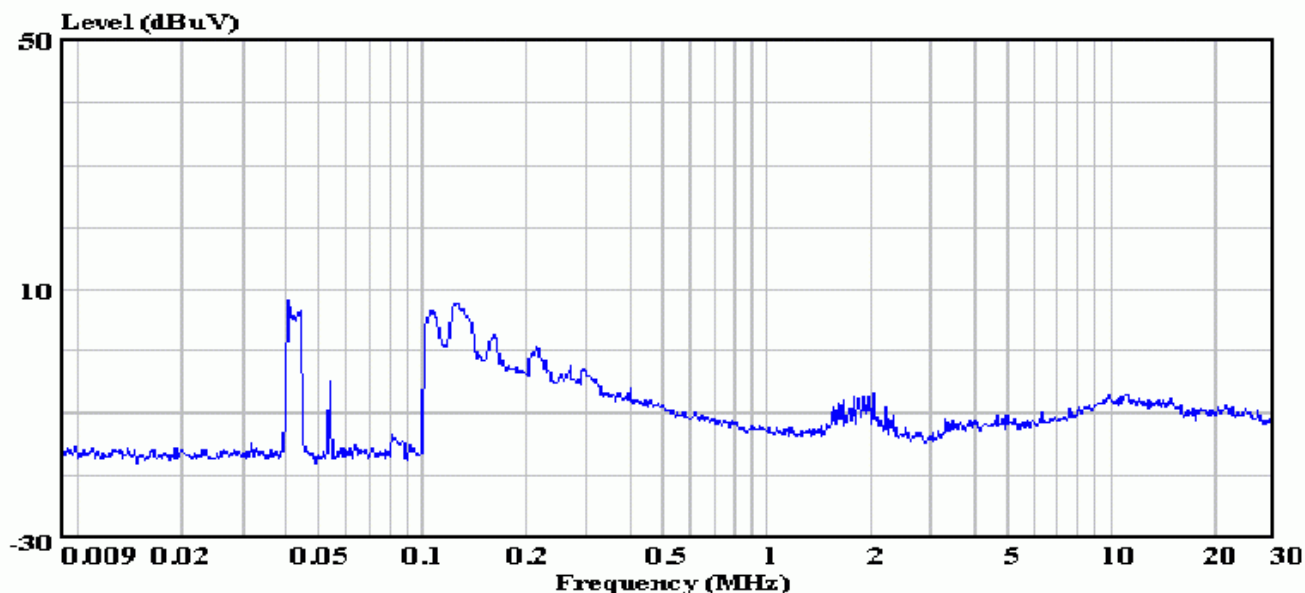


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Data#: 419 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 15:19:23



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000119  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLC7-18 Candle 9W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : C  
Test Mode : Lighting  
Test Engineer: NILL

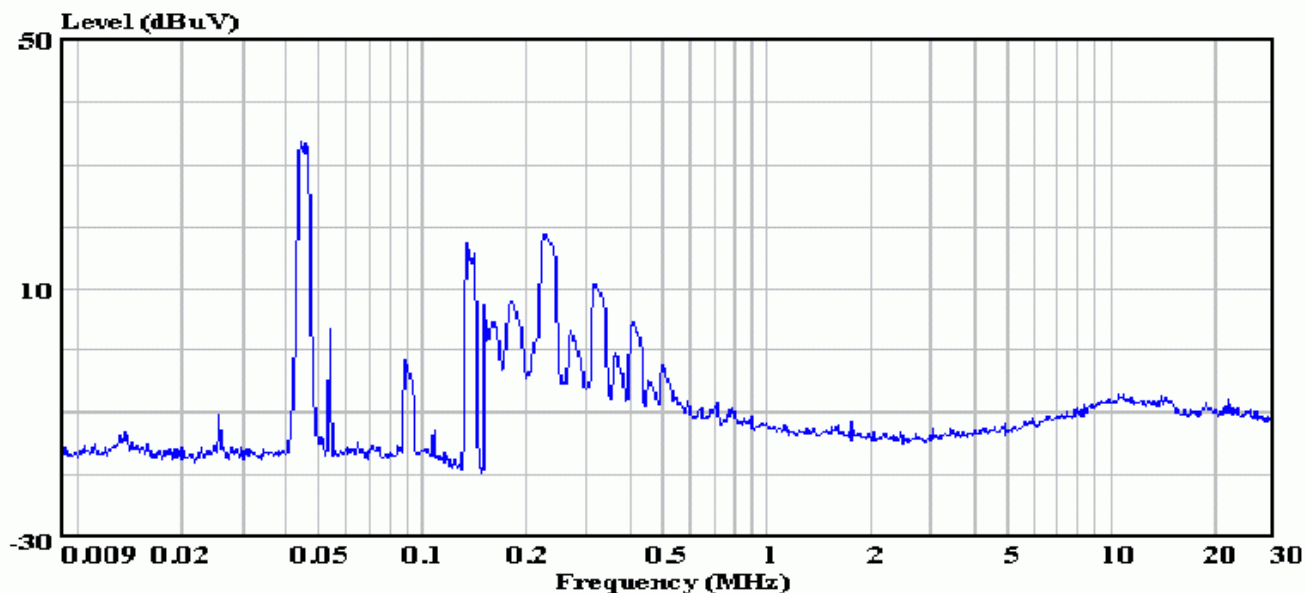


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Data#: 428 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 15:29:05



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000119  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLC7-18 Candle 11W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : A  
Test Mode : Lighting  
Test Engineer: NILL

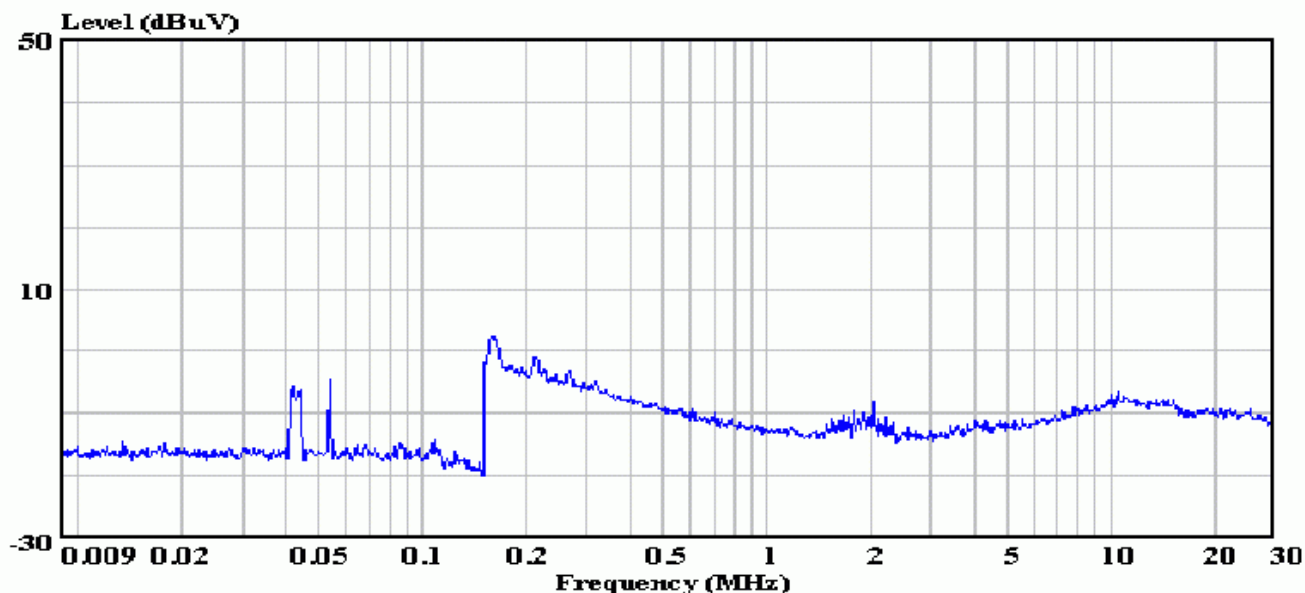


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Data#: 431 File#: D:\EMI\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 15:31:31



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000119  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLC7-18 Candle 11W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : B  
Test Mode : Lighting  
Test Engineer: NILL

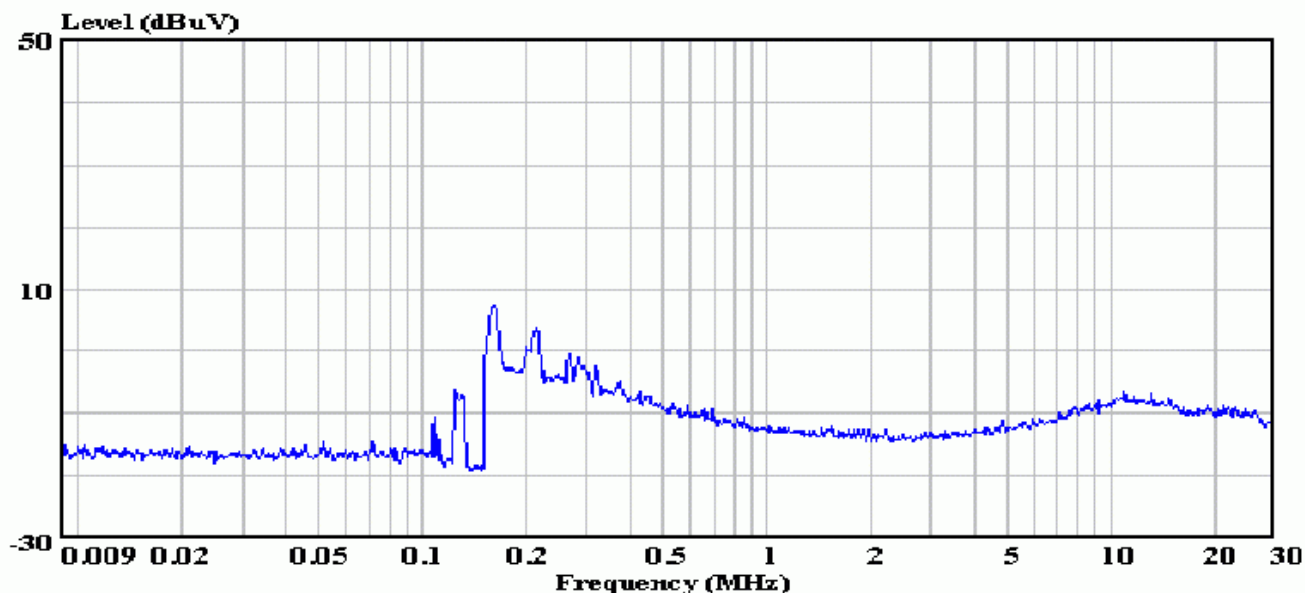


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Data#: 434 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 15:36:17



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000119  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLC7-18 Candle 11W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : C  
Test Mode : Lighting  
Test Engineer: NILL