

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

Electronic Energy Saving Lamp

Model No.: JLS Dimmable 15W    JLS Dimmable 20W  
                  JLS Dimmable 23W    JLS Dimmable 26W

FCC ID: N6AFJEE0111

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

Prepared By : Audix Technology (Shanghai) Co., Ltd.  
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Report No. : ACI-F01104  
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.:  
         JLS Dimmable 15W      JLS Dimmable 20W  
         JLS Dimmable 23W      JLS Dimmable 26W  
     (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

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

# 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 : JLS Dimmable 15W JLS Dimmable 20W  
JLS Dimmable 23W JLS Dimmable 26W

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 : 51kHz ~ 57kHz

| M/N              | Apparent Power (VA) | Real Power (W) |
|------------------|---------------------|----------------|
| JLS Dimmable 15W | 18.8                | 16.4           |
| JLS Dimmable 20W | 23.2                | 20.4           |
| JLS Dimmable 23W | 27.7                | 23.3           |
| JLS Dimmable 26W | 27.6                | 24.0           |

## 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 :  $U = \pm 2.66\text{dB}$

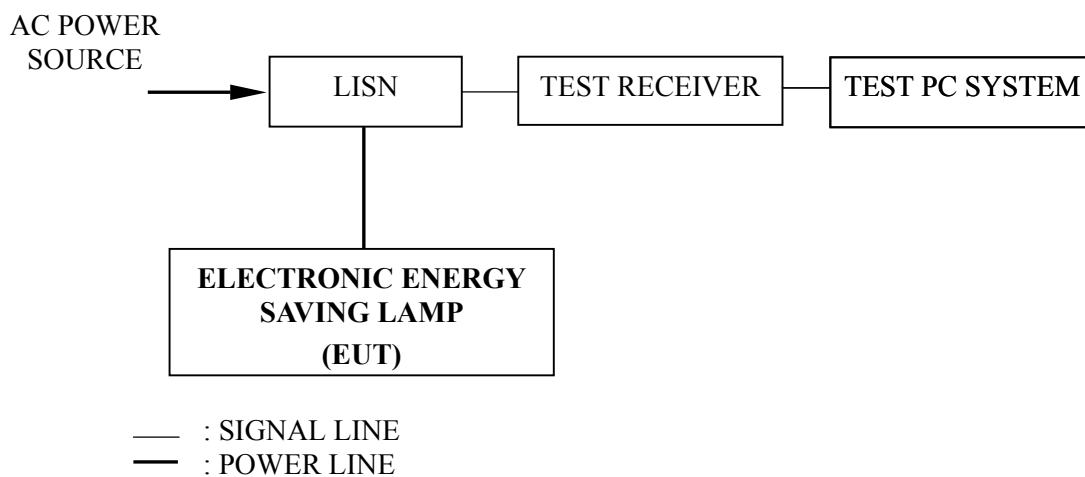
## 2 AC POWERLINE CONDUCTED EMISSION TEST

### 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)  
 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. : JLS Dimmable 15W      Humidity : 53%

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

| Test Line | Frequency (MHz) | Factor (dB) | Meter Reading dB( $\mu$ V) | Emission Level dB( $\mu$ V) | Limits dB( $\mu$ V) | Margin (dB) |
|-----------|-----------------|-------------|----------------------------|-----------------------------|---------------------|-------------|
| VA        | 0.496           | 0.06        | 44.60                      | 44.66                       | 48.00               | 3.34        |
|           | 0.648           | 0.04        | 42.80                      | 42.84                       | 48.00               | 5.16        |
|           | 0.761           | 0.03        | 44.78                      | 44.81                       | 48.00               | 3.19        |
|           | 0.987           | 0.05        | 43.38                      | 43.43                       | 48.00               | 4.57        |
|           | 1.238           | 0.05        | 42.19                      | 42.24                       | 48.00               | 5.76        |
|           | 1.502           | 0.05        | 40.59                      | 40.64                       | 48.00               | 7.36        |
| VB        | 0.473           | 0.09        | 43.16                      | 43.25                       | 48.00               | 4.75        |
|           | <b>0.519</b>    | <b>0.09</b> | <b>44.86</b>               | <b>44.95</b>                | <b>48.00</b>        | <b>3.05</b> |
|           | 0.630           | 0.08        | 43.37                      | 43.45                       | 48.00               | 4.55        |
|           | 0.720           | 0.08        | 43.71                      | 43.79                       | 48.00               | 4.21        |
|           | 0.793           | 0.08        | 42.92                      | 43.00                       | 48.00               | 5.00        |
|           | 0.970           | 0.08        | 43.20                      | 43.28                       | 48.00               | 4.72        |

NOTE 1 – Emission Level = Meter Reading + Factor

NOTE 2 – Factor = Insertion Loss + Cable Loss

NOTE 3 – All reading are Quasi-Peak Values.

NOTE 4 – The worst emission is detected at 0.519 MHz with corrected signal level of 44.95dB( $\mu$ V) (limit is 48.00 dB( $\mu$ V)), when the VB of the EUT is connected to LISN.

TEST ENGINEER: Nill Yee  
(NILL YEE)

EUT : Electronic Energy Saving Lamp      Temperature : 21.8°C

Model No. : JLS Dimmable 20W      Humidity : 53%

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

| Test Line  | Frequency (MHz) | Factor (dB) | Meter Reading dB( $\mu$ V) | Emission Level dB( $\mu$ V) | Limits dB( $\mu$ V) | Margin (dB) |
|--|-----------------|-------------|----------------------------|-----------------------------|---------------------|-------------|
| VA   | 0.450           | 0.07        | 44.53                      | 44.60                       | 48.00               | 3.40        |
|  | 0.495           | 0.06        | 44.19                      | 44.25                       | 48.00               | 3.75        |
|  | 0.521           | 0.06        | 44.06                      | 44.12                       | 48.00               | 3.88        |
|  | 0.564           | 0.05        | 43.32                      | 43.37                       | 48.00               | 4.62        |
|  | 0.847           | 0.04        | 42.37                      | 42.41                       | 48.00               | 5.59        |
|  | 0.887           | 0.04        | 38.60                      | 38.64                       | 48.00               | 9.36        |
| VB   | <b>0.454</b>    | <b>0.10</b> | <b>44.81</b>               | <b>44.91</b>                | <b>48.00</b>        | <b>3.09</b> |
|  | 0.495           | 0.09        | 42.87                      | 42.96                       | 48.00               | 5.04        |
|  | 0.561           | 0.09        | 42.24                      | 42.33                       | 48.00               | 5.67        |
|  | 0.823           | 0.08        | 40.13                      | 40.21                       | 48.00               | 7.79        |
|  | 0.849           | 0.08        | 43.25                      | 43.33                       | 48.00               | 4.67        |
|  | 1.101           | 0.08        | 39.69                      | 39.77                       | 48.00               | 8.23        |
| <p>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 0.454 MHz with corrected signal level of 44.91dB(<math>\mu</math>V) (limit is 48.00 dB(<math>\mu</math>V)), when the VB 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. : JLS Dimmable 23W      Humidity : 53%

Test Mode : Lighting      Date of Test : Dec 01, 2001

| Test Line  | Frequency (MHz) | Factor (dB) | Meter Reading dB( $\mu$ V) | Emission Level dB( $\mu$ V) | Limits dB( $\mu$ V) | Margin (dB) |
|--|-----------------|-------------|----------------------------|-----------------------------|---------------------|-------------|
| VA   | 0.520           | 0.06        | 41.10                      | 41.16                       | 48.00               | 6.84        |
|  | 0.592           | 0.04        | 38.81                      | 38.85                       | 48.00               | 9.15        |
|  | 0.620           | 0.04        | 40.55                      | 40.59                       | 48.00               | 7.41        |
|  | 0.702           | 0.03        | 39.50                      | 39.53                       | 48.00               | 8.47        |
|  | 0.832           | 0.04        | 40.00                      | 40.04                       | 48.00               | 7.96        |
|  | 1.000           | 0.05        | 39.03                      | 39.08                       | 48.00               | 8.92        |
| VB   | 0.539           | 0.09        | 39.42                      | 39.51                       | 48.00               | 8.49        |
|  | 0.580           | 0.09        | 39.00                      | 39.09                       | 48.00               | 8.91        |
|  | <b>0.636</b>    | <b>0.08</b> | <b>41.74</b>               | <b>41.82</b>                | <b>48.00</b>        | <b>6.18</b> |
|  | 0.715           | 0.08        | 40.28                      | 40.36                       | 48.00               | 7.64        |
|  | 0.870           | 0.08        | 40.31                      | 40.39                       | 48.00               | 7.61        |
|  | 1.072           | 0.08        | 38.07                      | 38.15                       | 48.00               | 9.85        |
| <p>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 0.636 MHz with corrected signal level of 41.82dB(<math>\mu</math>V) (limit is 48.00 dB(<math>\mu</math>V)), when the VB 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. : JLS Dimmable 26W      Humidity : 53%

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

| Test Line  | Frequency (MHz) | Factor (dB) | Meter Reading dB( $\mu$ V) | Emission Level dB( $\mu$ V) | Limits dB( $\mu$ V) | Margin (dB) |
|--|-----------------|-------------|----------------------------|-----------------------------|---------------------|-------------|
| VA   | 0.539           | 0.05        | 42.41                      | 42.46                       | 48.00               | 5.54        |
|  | 0.638           | 0.04        | 42.72                      | 42.76                       | 48.00               | 5.24        |
|  | 0.754           | 0.03        | 42.27                      | 42.30                       | 48.00               | 5.70        |
|  | 0.797           | 0.04        | 42.70                      | 42.74                       | 48.00               | 5.26        |
|  | 1.025           | 0.05        | 41.97                      | 42.02                       | 48.00               | 5.98        |
|  | 1.218           | 0.05        | 40.91                      | 40.96                       | 48.00               | 7.04        |
| VB   | 0.467           | 0.09        | 42.52                      | 42.61                       | 48.00               | 5.39        |
|  | 0.560           | 0.09        | 43.75                      | 43.84                       | 48.00               | 4.16        |
|  | 0.646           | 0.08        | 44.24                      | 44.32                       | 48.00               | 3.68        |
|  | <b>0.777</b>    | <b>0.08</b> | <b>44.50</b>               | <b>44.58</b>                | <b>48.00</b>        | <b>3.42</b> |
|  | 0.975           | 0.08        | 43.44                      | 43.52                       | 48.00               | 4.48        |
|  | 1.134           | 0.08        | 42.09                      | 42.17                       | 48.00               | 5.83        |
| <p>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 0.777 MHz with corrected signal level of 44.58dB(<math>\mu</math>V) (limit is 48.00 dB(<math>\mu</math>V)), when the VB of the EUT is connected to LISN.</p> |                 |             |                            |                             |                     |             |

TEST ENGINEER: Nill Yee  
(NILL YEE)

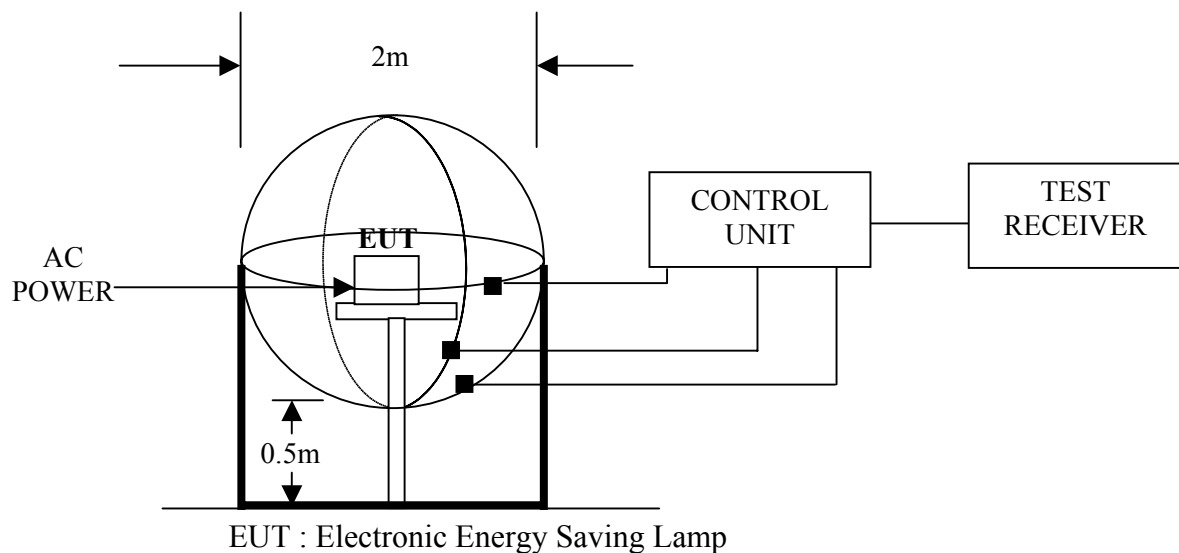
### 3 FIELD STRENGTH TEST

#### 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.

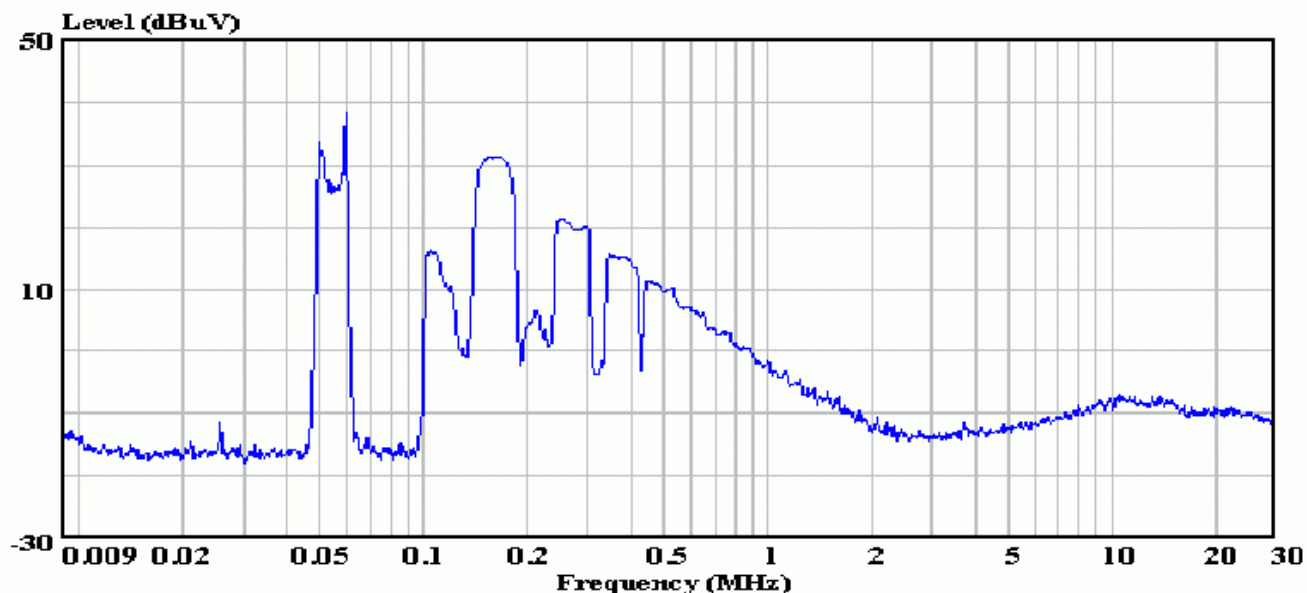


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audixaci@8848.net

Data#: 396 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 13:48:03



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 15W  
Power Supply : 120V/60Hz  
Ambient : 21.8°C 53%  
Test Line : A  
Test Mode : Lighting  
Test Engineer: NILL

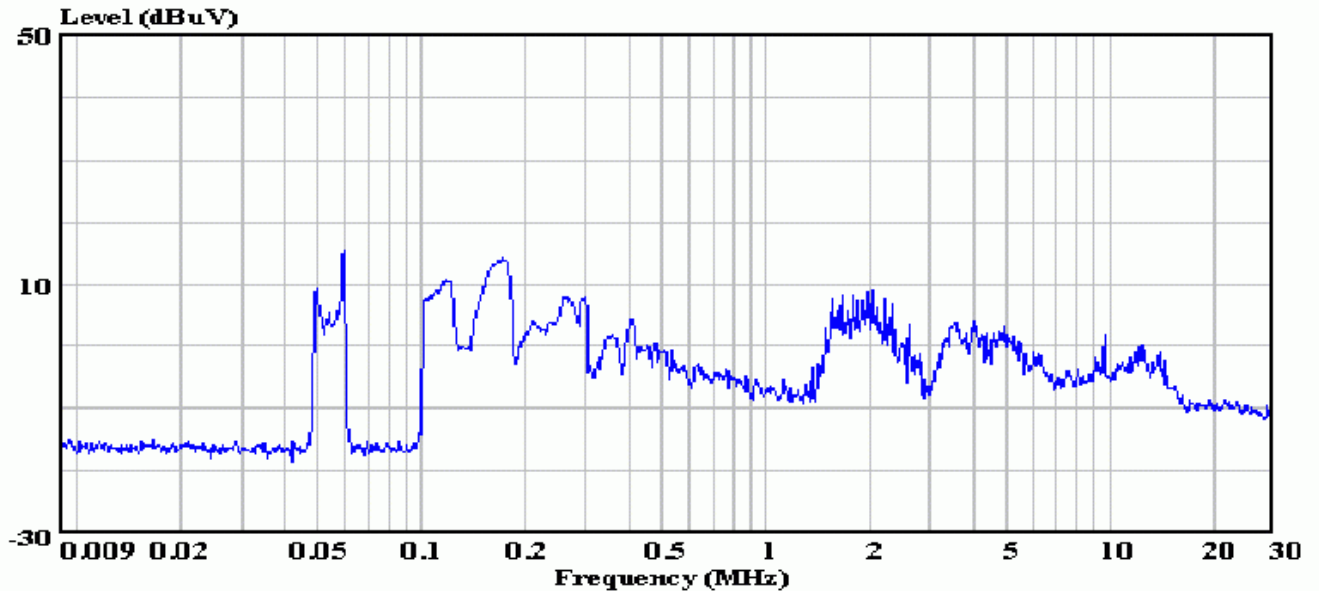


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audixaci@8848.net

Data#: 398 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 13:51:50



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 15W  
Power Supply : 120V/60Hz  
Ambient : 21.8°C 53%  
Test Line : B  
Test Mode : Lighting  
Test Engineer: NILL

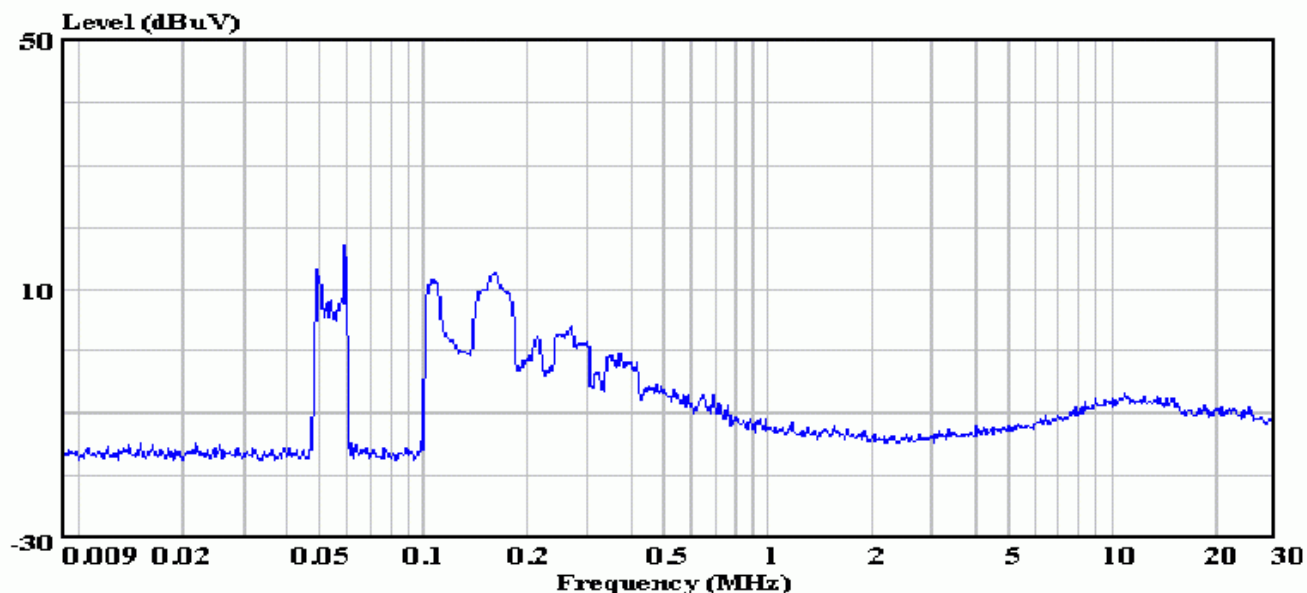


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Data#: 400 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 13:56:19



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 15W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : C  
Test Mode : Lighting  
Test Engineer: NILL

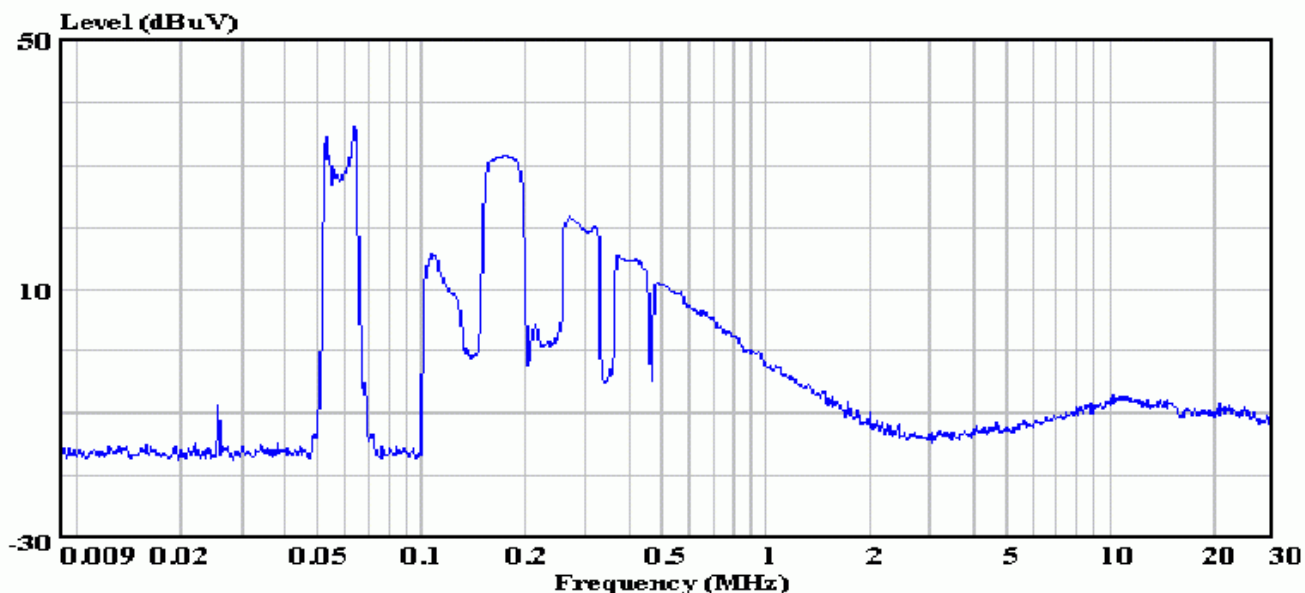


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Data#: 394 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 10:01:40



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 20W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : A  
Test Mode : Lighting  
Test Engineer: NILL





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Data#: 391 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 09:15:25



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 20W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : B  
Test Mode : Lighting  
Test Engineer: NILL

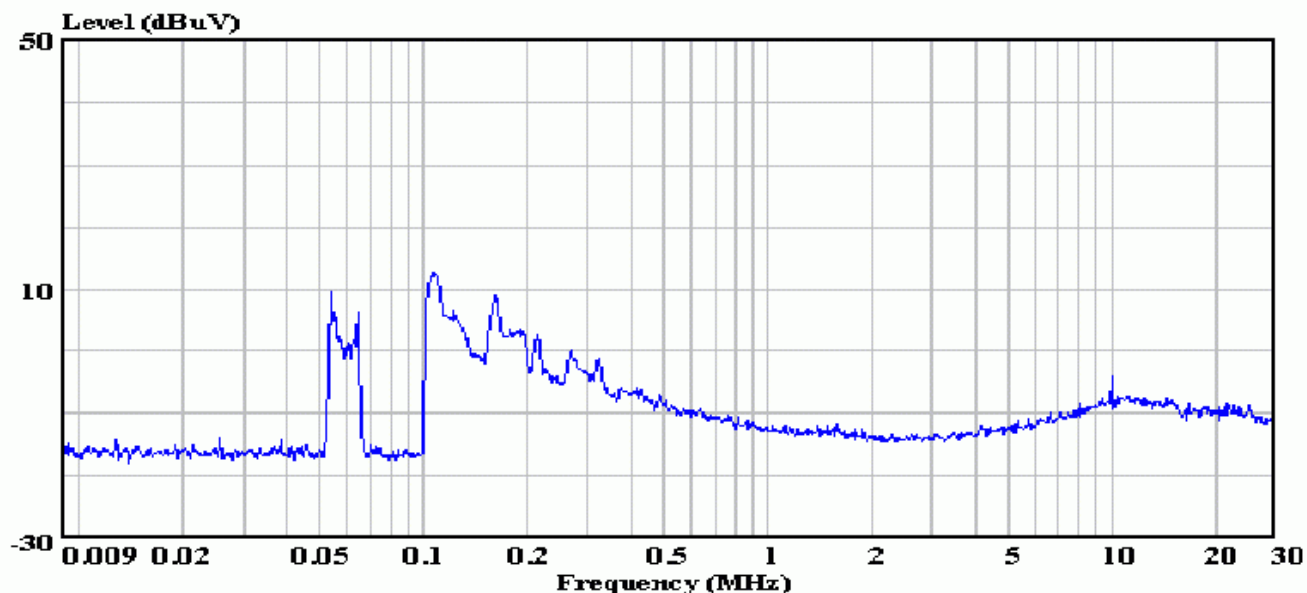


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Data#: 388 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 09:13:47



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 20W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : C  
Test Mode : Lighting  
Test Engineer: NILL

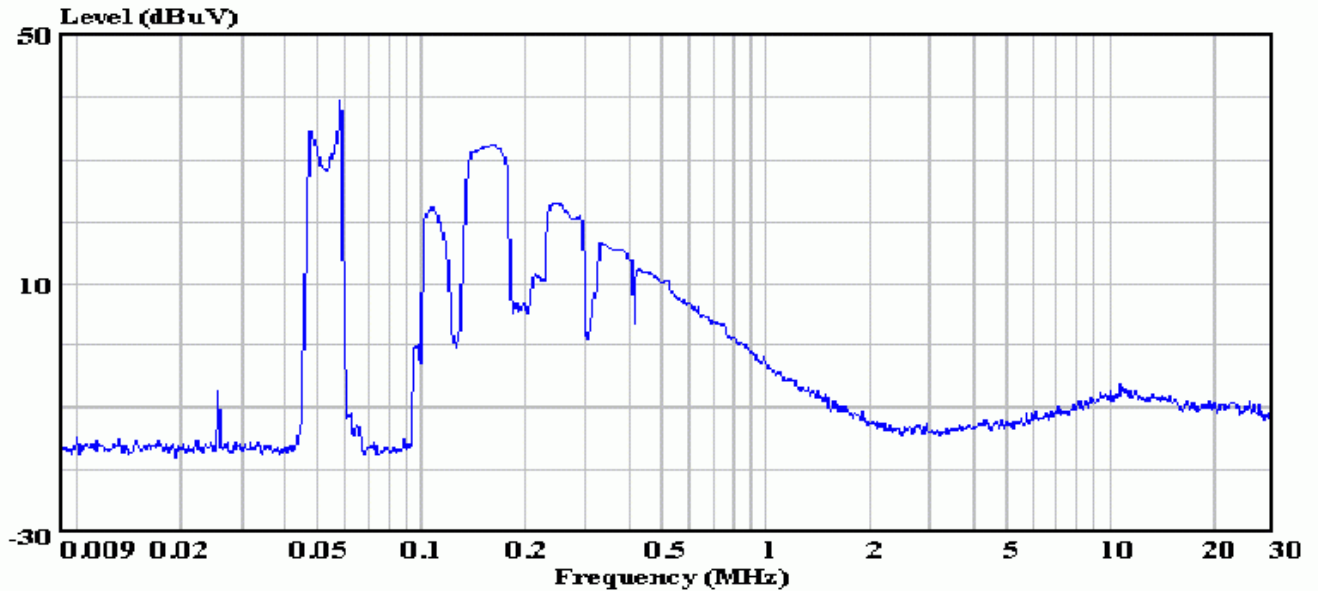


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audixaci@8848.net

Data#: 380 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 08:50:48



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 23W  
Power Supply : 120V/60Hz  
Ambient : 21.8°C 53%  
Test Line : A  
Test Mode : Lighting  
Test Engineer: NILL

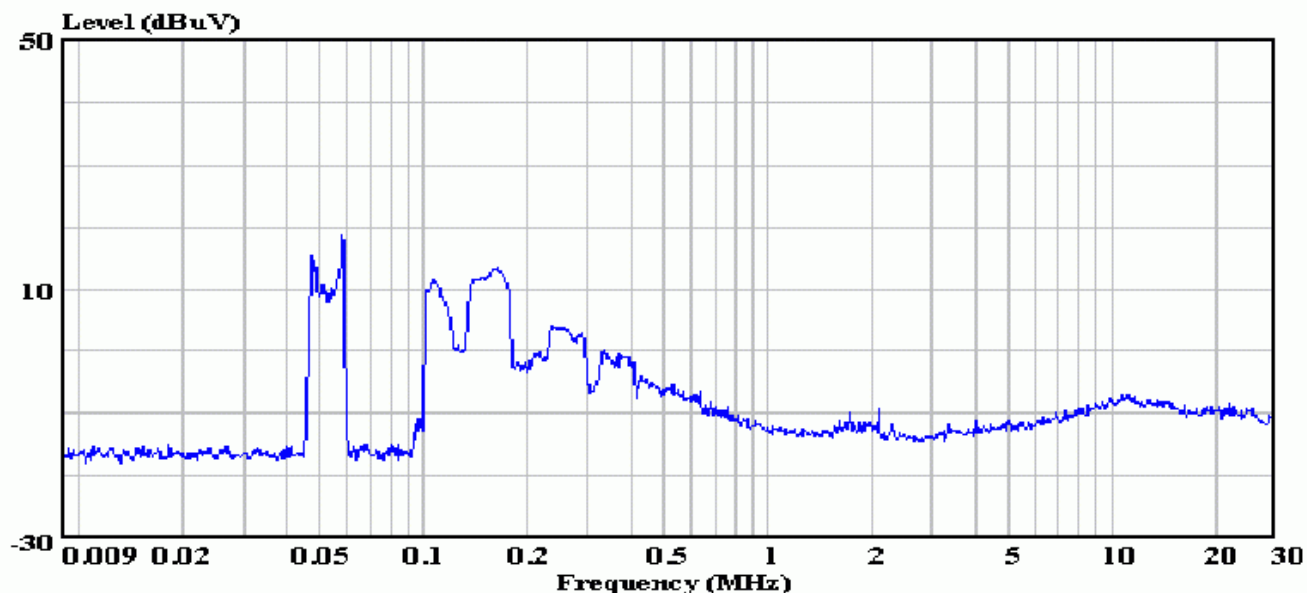


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Data#: 382 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 08:57:12



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 23W  
Power Supply : 120V/60Hz  
Ambient : 21.8°C 53%  
Test Line : B  
Test Mode : Lighting  
Test Engineer: NILL

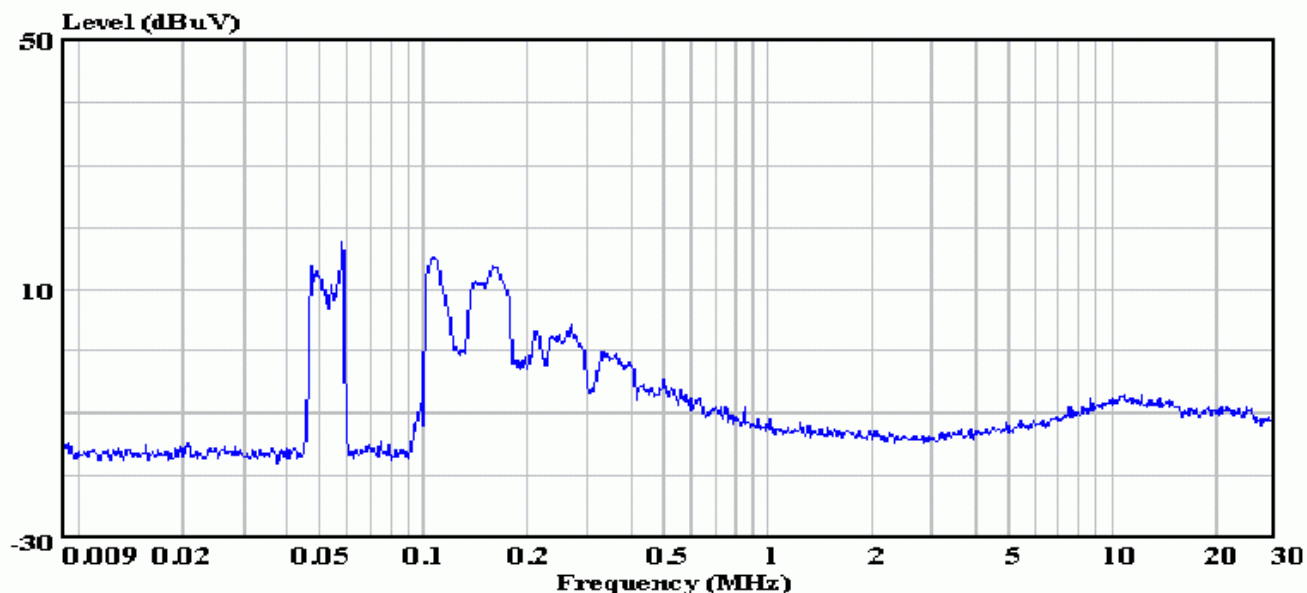


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Data#: 385 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 09:02:36



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 23W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : C  
Test Mode : Lighting  
Test Engineer: NILL

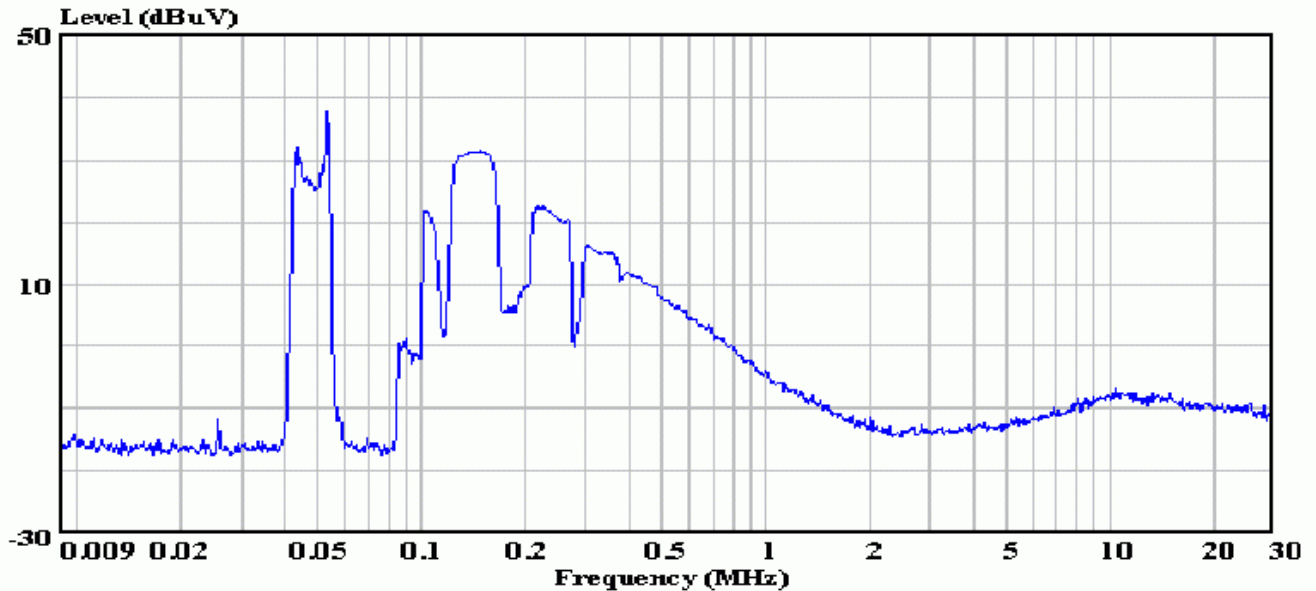


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Data#: 408 File#: D:\EMIVM\TEST\J\joinluck.emi

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



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 26W  
Power Supply : 120V/60Hz  
Ambient : 21.8°C 53%  
Test Line : A  
Test Mode : Lighting  
Test Engineer: NILL

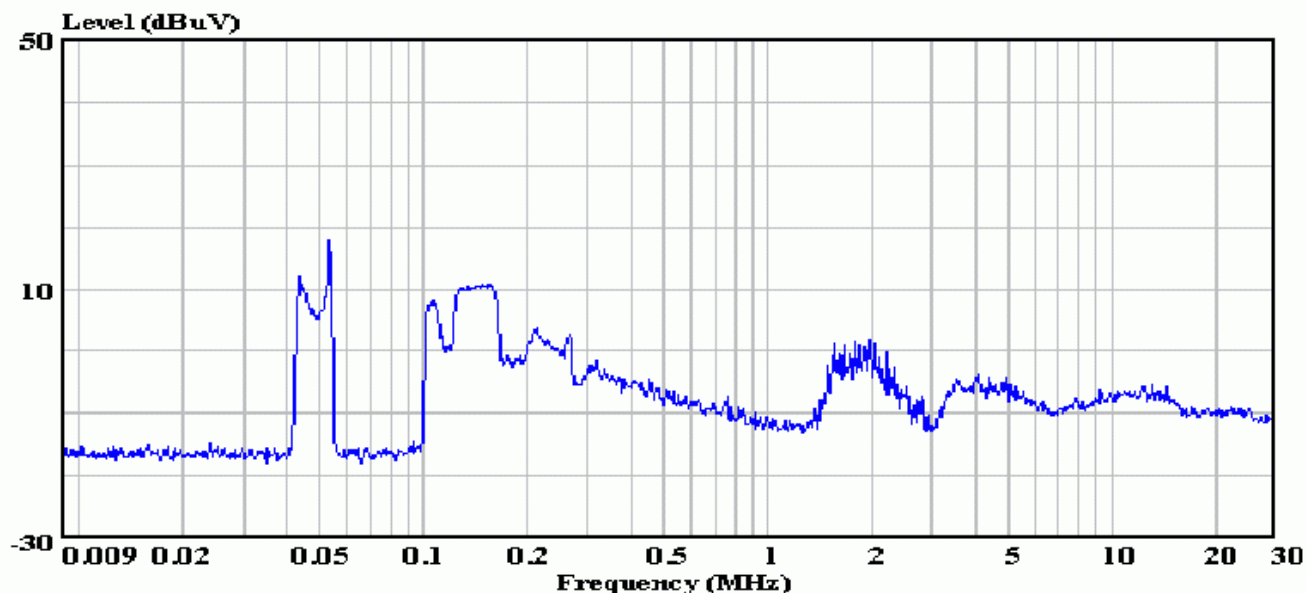


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Data#: 406 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 14:17:38



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 26W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : B  
Test Mode : Lighting  
Test Engineer: NILL

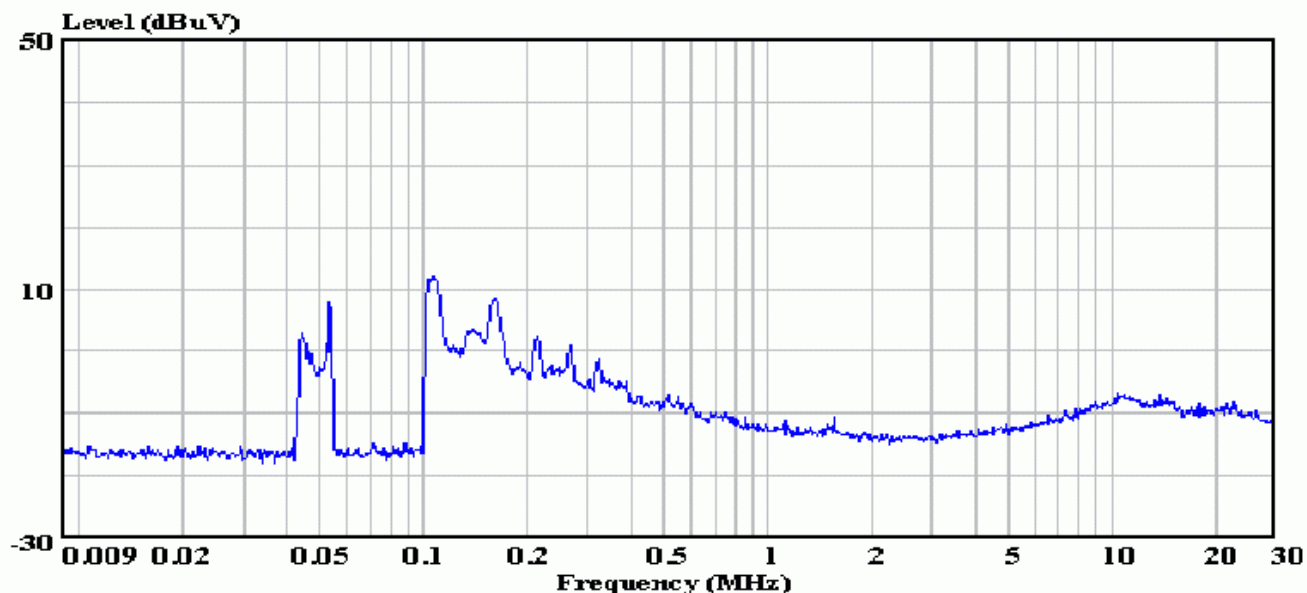


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Data#: 403 File#: D:\EMIVM\TEST\J\joinluck.emi

Date: 2001-12-03 Time: 14:04:14



Site : audix-aci Conducted Emission  
Condition :  
Project No. : AQE-000118  
Applicant : Fujian Joinluck Electronic enterprise  
: Co.,Ltd  
EUT : Electronic Energy Saving Lamp  
M/N : JLS Dimmable 26W  
Power Supply : 120V/60Hz  
Ambient : 21.8'C 53%  
Test Line : C  
Test Mode : Lighting  
Test Engineer: NILL