

EXHIBIT 4

Test Report

APPLICATION FOR CERTIFICATION

On Behalf of

Hangzhou Lin'an Changhong Lighting Electronic Co., Ltd
Hangzhou Huoerte Electric Co.,Ltd

Energy Saving Lamp

Model Number : QSC-15W, QSC-20W, QSC-23W, QSC-25W
QSM-15W, QSM-20W, QSM-23W, QSM-25W

Prepared for : Hangzhou Lin'an Changhong Lighting Electronic Co., Ltd
Economy Development Area Lin'an
HangzhoyZhejiang China
Hangzhou Huoerte Electric Co.,Ltd
Economy Development Area Lin'an
HangzhoyZhejiang China

Prepared by : Shenzhen Most Technology Co., Ltd
C-13B,Shennan Gardon Nanshan Zone Shenzhen
Guangdong China

Telephone : (0755)-26506933

Report Number : SMT-F42002

Date of Test : July 1, 2002

Date of Report : July 2-4, 2002

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TEST REPORT DECLARATION

Applicant/Manufacturer: Hangzhou Lin'an Changhong Lighting Electronic Co., Ltd
Hangzhou Huoerte Electric Co.,Ltd

EUT Description : Energy Saving Lamps

(A) MODEL NO. : QSC-15W, QSC-20W, QSC-23W, QSC-25W
QSM-15W, QSM-20W, QSM-23W, QSM-25W

(B) SERIAL NO. : F20020703

(C) POWER SUPPLY : 120V / 60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 18 SUBPART C RF LIGHTING
DEVICES CONSUMER (1998) AND MP-5/1986

The device described above is tested by Shenzhen Most Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 18 Subpart C limits for radiation and conduction emissions.

The test results are contained in this test report and Shenzhen Most Technology Co., Ltd is assumed of full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Most Technology 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 :

July 2-4, 2002

Prepared by :

Totty Su

Totty Su/ Assistant

Reviewer :

Amy Zhu

Amy Zhu / Assistant Manager

For and on behalf of
SHENZHEN MOST TECHNOLOGY CO., LTD.

Approved & Authorized Signer :

Mark Wen / Manager

Authorized Signatures

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	: Energy Saving Lamp
Model Number	: QSC-15W, QSC-20W, QSC-23W, QSC-25W QSM-15W, QSM-20W, QSM-23W, QSM-25W
Applicant	: Lin'an Changhong Lighting Electric Co., Ltd. Economy Development Area Lin'an Hangzhou Zhejiang China Hangzhou Huoerte Electric Co.,Ltd. Economy Development Area Lin'an Hangzhou Zhejiang China
Manufacturer	: Lin'an Changhong Lighting Electric Co., Ltd. Economy Development Area Lin'an Hangzhou Zhejiang China Hangzhou Huoerte Electric Co.,Ltd. Economy Development Area Lin'an Hangzhou Zhejiang China
Date of Test	: July 1, 2002

Test Facility

Site Description

3m Anechoic Chamber : Certificated by FCC, USA
Aug. 24, 2000

3m & 10m Open Site : Certificated by FCC, USA
Feb. 13, 1998

EMC Lab. : Certificated by VCCI, Japan
Oct. 29, 1998

Certificated by DATech, German
Feb. 02, 1999

Certificated by NVLAP, USA
until Mar. 03, 2001

NVLAP Code: 200372-0
Certificated by DNV, Norway
May 26, 1999

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

Site Location : No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, P.R China

1.3. Test Uncertainty

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

Radiated Emission Uncertainty = $\pm 4.26\text{dB}$

:

2. POWER LINE CONDUCTED EMISSION TEST

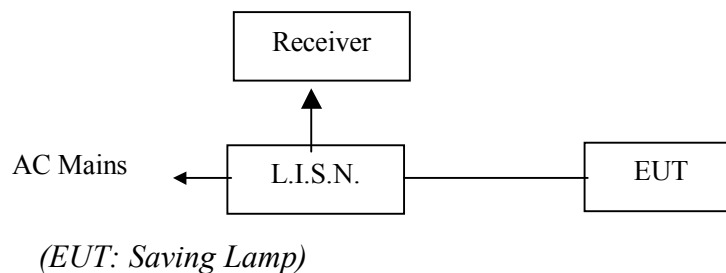
2.1 Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	Jun. 04, 02	1 Year
2.	L.I.S.N.	Kyoritsu	KNW-407	8-541-4	Jun. 04, 02	1 Year
3.	Terminator	EMCO	50Ω	No. 1	Jun. 04, 02	1 Year
4.	Terminator	EMCO	50Ω	No. 2	Jun. 04, 02	1 Year
5.	RF Cable	FUJIKURA	RG-55/U	LISN Cable	Feb 28, 02	1/2 Year
6.	Passive Probe	Rohde & Schwarz	ESH-Z3	299.7810.52	Jun. 04, 02	1 Year
7.	Coaxial Switch	Anritsu	MP59B	M73989	Feb.28, 02	1/2 Year

2.2 Block Diagram of Test Setup

Block diagram of connection between the EUT and simulators



2.3 Power Line Conducted Emission Test Limits

Frequency MHz	Maximum RF Line Voltage	
	μV	dB(μV)
0.45 ~ 30	250	48

Remarks: RF Line Voltage (dB(μV)) = 20 log RF Line Voltage (μV)

2.4 Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

2.4.1 Saving Lamp (EUT)

Model Number	:	QSC-15W, QSC-20W, QSC-23W, QSC-25W QSM-15W, QSM-20W, QSM-23W, QSM-25W
Manufacturer	:	Lin'an Changhong Lighting Electric Co., Ltd. Economy Development Area Lin'an HangzhoyZhejiang China Hangzhou Huoerte Electric Co.,Ltd. Economy Development Area Lin'an HangzhoyZhejiang China

2.5 Operating Condition of EUT

2.5.1 Setup the EUT and simulator as shown as Section 2.2.

2.5.2 Turn on the power of all equipment.

2.5.3 Let the EUT work in test mode (ON) and test it.

2.6 Test Procedure

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 EUT. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission levels. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-1992 on Conducted Emission Test.

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

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

The test result are reported on Section 2.7., all the scanning waveforms for Conducted Emission Test are attached in Appendix I.

2.7 Power Line Conducted Emission Test Results

PASS.

The frequency range from 450KHz to 30 MHz is investigated. All emissions not reported below are too low against the prescribed limits

And the Test Data, Please see Appendix I

3. Radiated emission test

3.1 Test Equipment

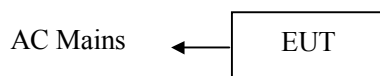
The following test equipments are used during the radiated emission test:

3.1.1 For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	HP	85422E	3625A00181	Jun. 04, 02	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	Jun. 04, 02	1 Year
3.	Amplifier	HP	8447D	2944A07794	Feb. 09, 02	1/2 Year
4.	Bilog Antenna	Chase	CBL6112A	2176	Sep. 25, 01	1 Year
5.	Computer	N/A	N/A	N/A	N/A	N/A
6.	Printer	NEC	P3800	568101448	N/A	N/A
7.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Feb. 09, 02	1/2 Year
8.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Feb. 09, 02	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Feb. 09, 02	1/2 Year
10.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Feb. 09, 02	1/2 Year
11.	Coaxial Switch	Anritsu	MP59B	M74389	Feb. 09, 02	1/2 Year

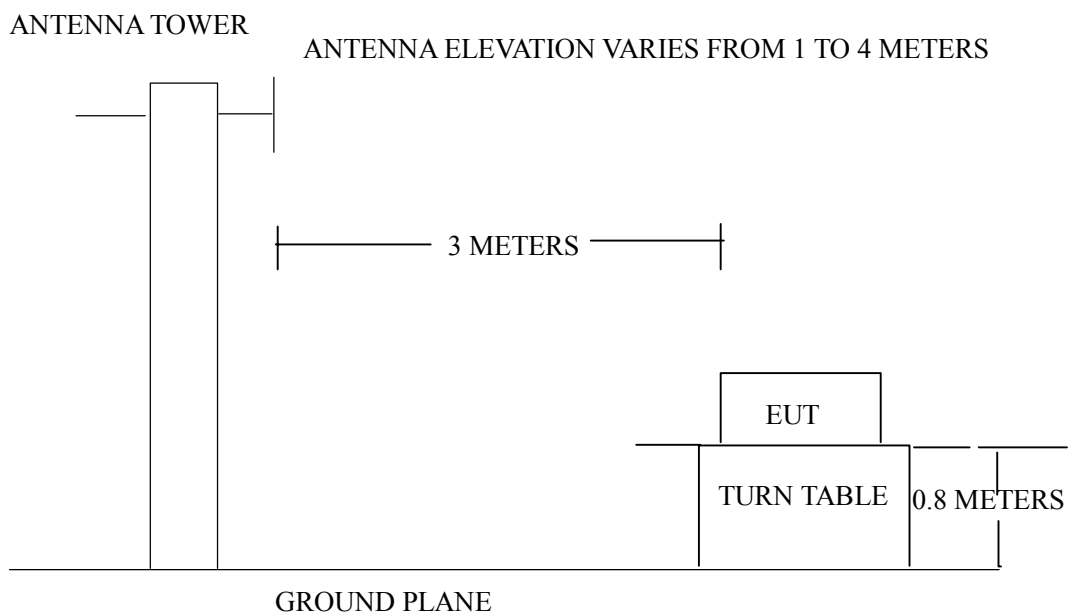
3.2 Block Diagram of Test Setup

3.2.1 Block diagram of connection between the EUT and simulators



(EUT: Saving Lamp)

3.2.2 Test Setup Diagram in Anechoic Chamber



3.3 Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Remark : (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4 EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.4.1 Saving Lamp (EUT)

Model Number : QSC-15W, QSC-20W, QSC-23W, QSC-25W
 QSM-15W, QSM-20W, QSM-23W, QSM-25W

Manufacturer : Lin'an Changhong Lighting Electric Co., Ltd.
 Economy Development Area Lin'an HangzhoyZhejiang
 China

3.5 Operating Condition of EUT

1. Setup the EUT as shown in Section 3.2..
2. Let the EUT work in test mode (ON) and test it.

3.6 Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission levels. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to MP-5/1986 on Radiated Emission Test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120KHz.

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

The test mode (ON) are tested in Anechoic Chamber and all the scanning waveforms are attached in Appendix II.

3.7 Radiated Emission Test Results

PASS.

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

And the test data, Please see the Appendix II

4. MODIFICATION TO TEST SPECIFICATIONS

[NONE]

5. PHOTOGRAPH

5.1. Photo of Power Line Conducted Emission Test



5.2. Photo of Radiated Emission Test (In Anechoic Chamber)



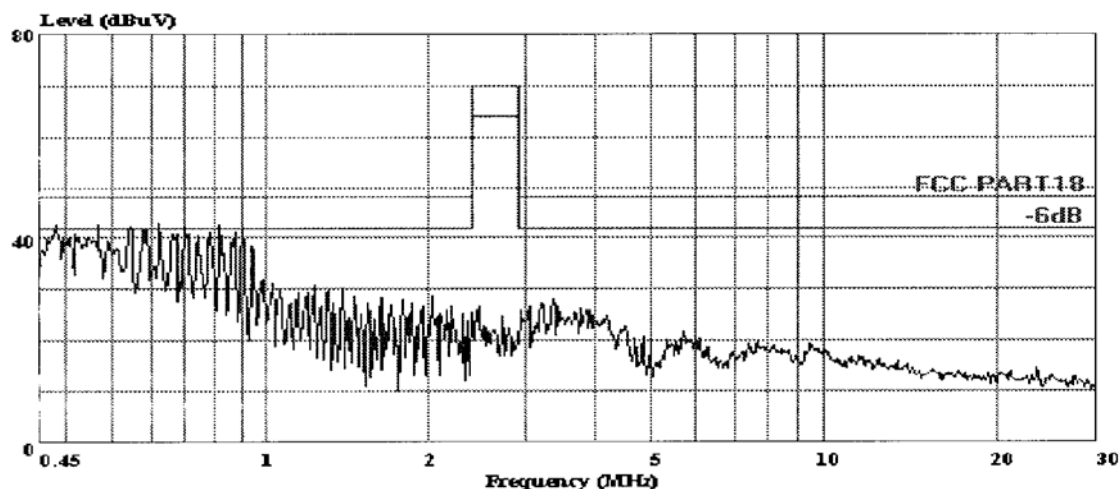
APPENDIX 1

Conduction Test Data

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Shenzhen Science & Ind Park
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Tel: 0755-6639495~7
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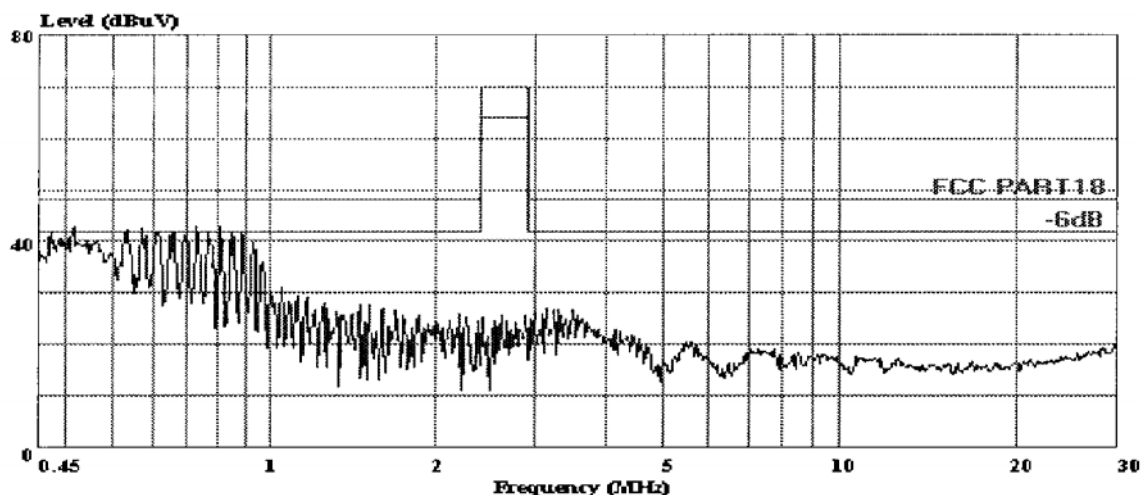
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M/N: : QSM-25W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Va
Comment: : Temp:21'C
: Humi:56%

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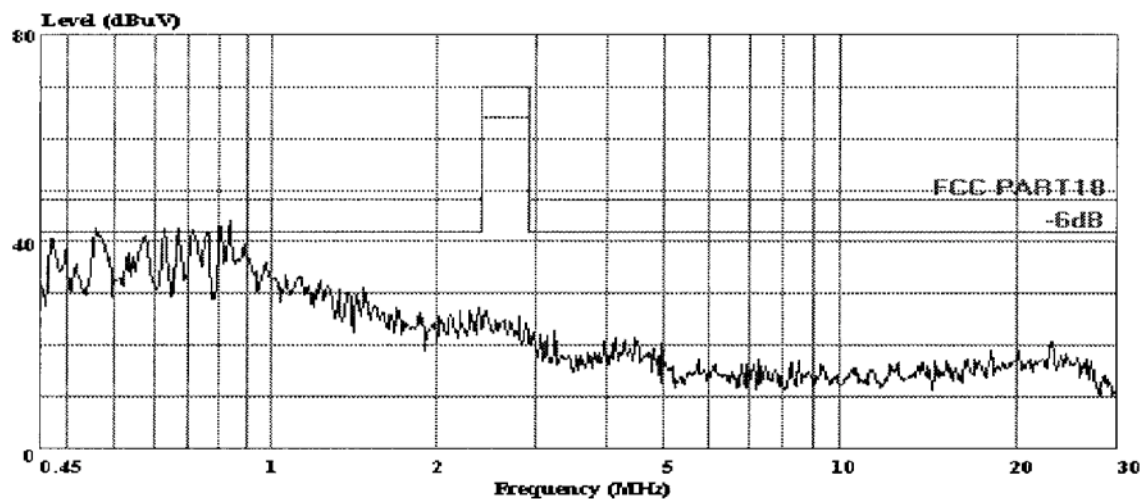
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Eut: : Energy Saving Lamp
M/N: : QSM-25W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Vb
Comment: : Temp:21'C
: Humi:56%

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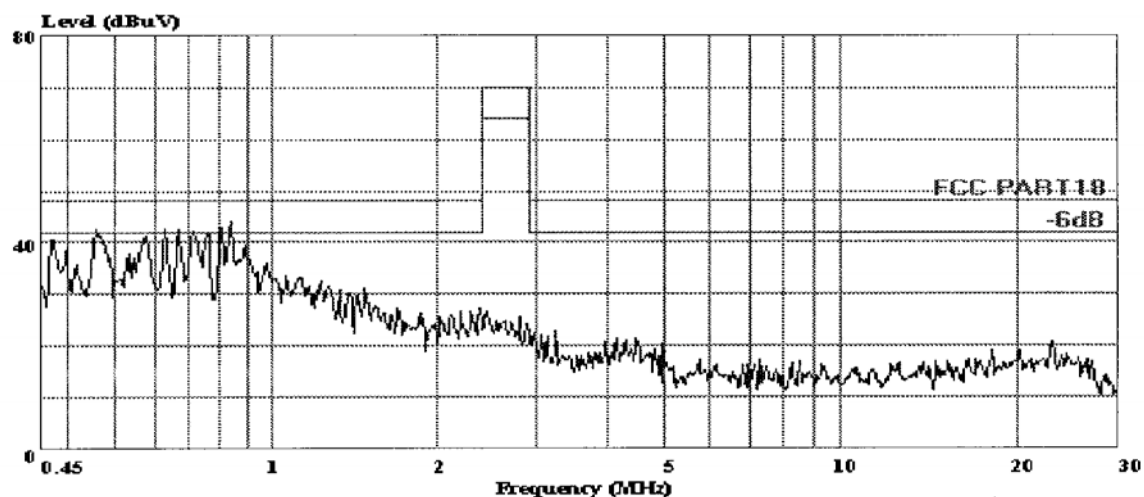
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M/N: : QSM-23W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Va
Comment: : Temp:21'C
: Humi:56%

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Data#: 4 File#: CHANGHONG.EMI Date: 2002-07-01 Time: 12:19:48



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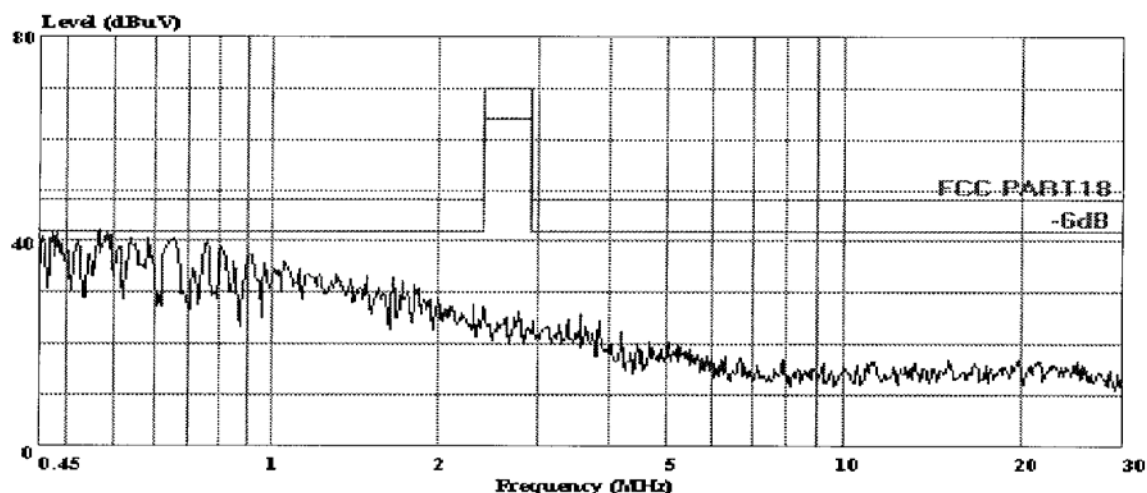
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M/N: : QSM-23W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Vb
Comment: : Temp:21'C
: Humi:56%

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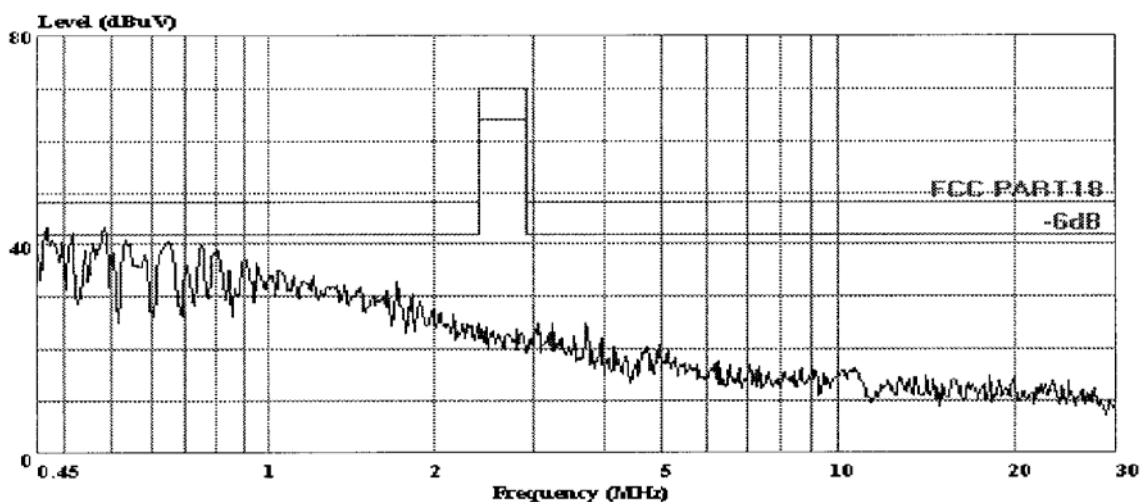
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M/N: : QSM-20W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Va
Comment: : Temp: 21°C
: Humi: 56%

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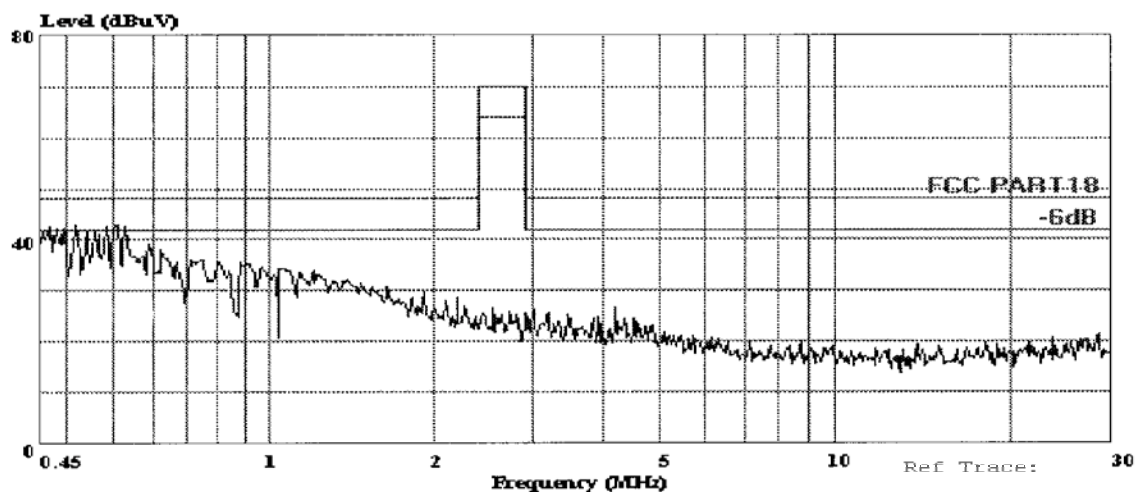
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Eut: : Energy Saving Lamp
M/N: : QSM-20W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Vb
Comment: : Temp: 21°C
: Humi: 56%

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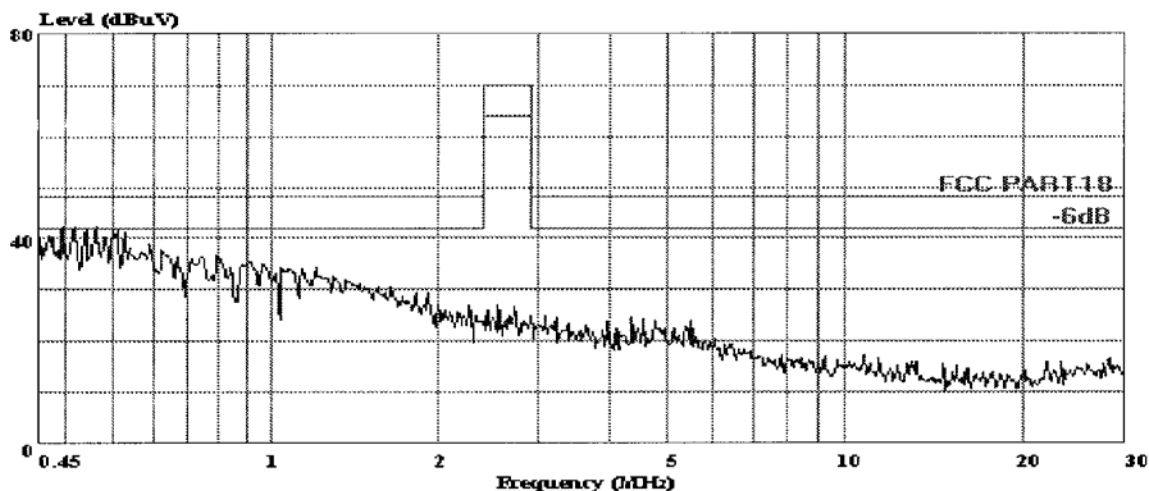
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M/N: : QSM-15W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Vb
Comment: : Temp:21'C
: Humi:56%

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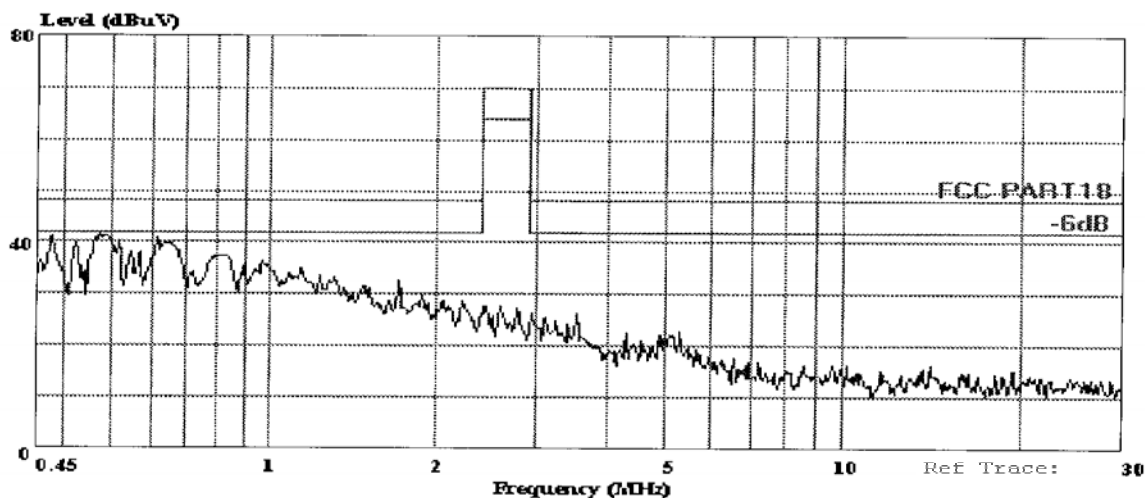
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M/N: : QSM-15W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Va
Comment: : Temp:21'C
: Humi:56%

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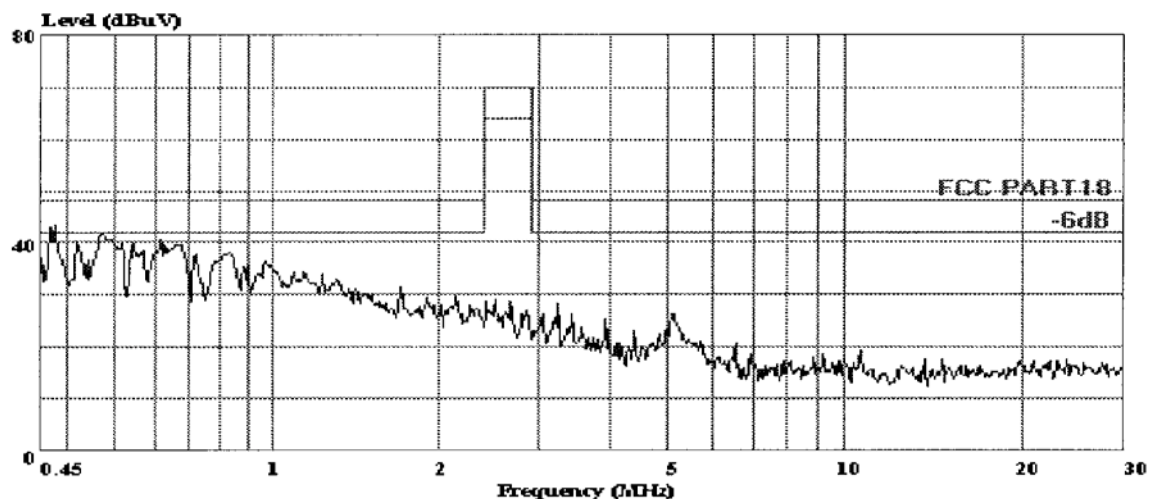
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M/N: : QSC-25W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Va
Comment: : Temp:21'C
: Humi:56%

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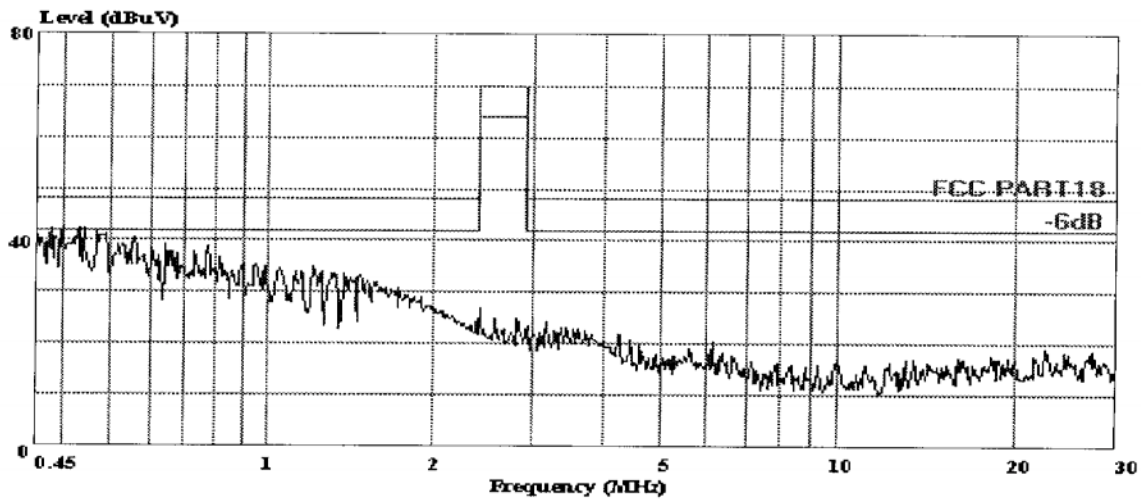
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Eut: : Energy Saving Lamp
M/N: : QSC-25W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Vb
Comment: : Temp:21'C
: Humi:56%

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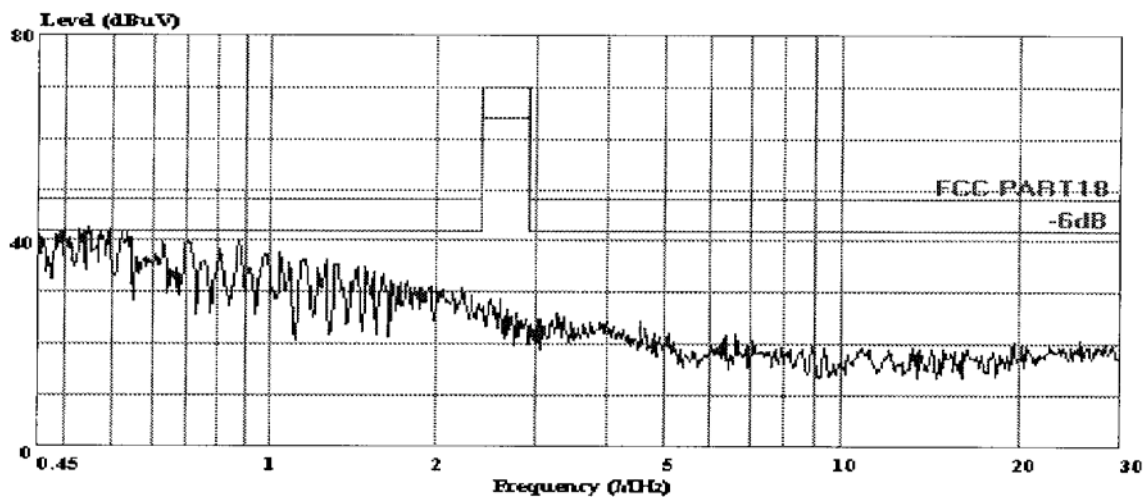
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M/N: : QSC-23W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Vb
Comment: : Temp:21'C
: Humi:56%

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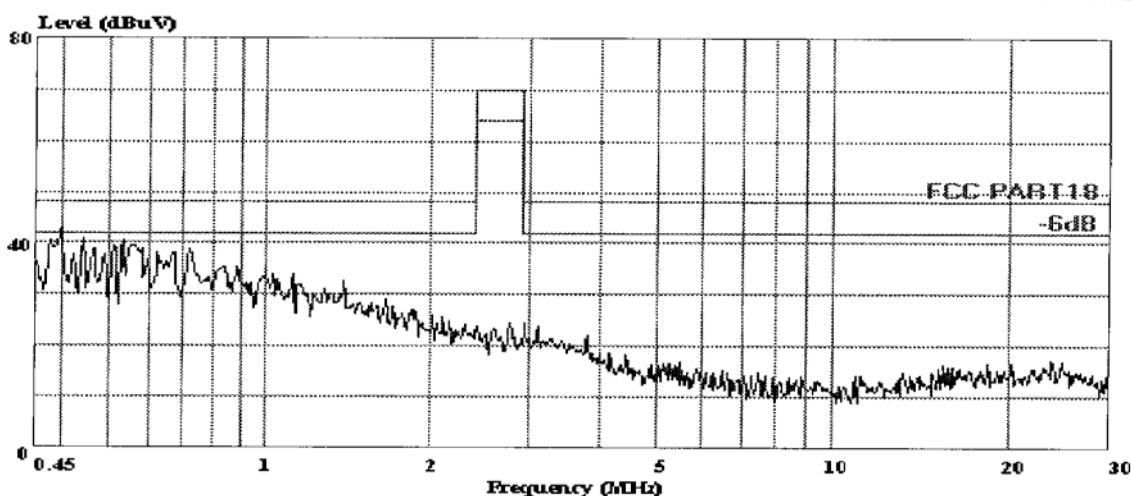
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Eut: : Energy Saving Lamp
M/N: : QSC-23W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Va
Comment: : Temp:21'C
: Humi:56%

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Data#: 12 File#: CHANGHONG.EMI Date: 2002-07-01 Time: 17:02:32



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Trace:

Ref Trace:

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Eut: : Energy Saving Lamp

M/N: : QSC-20W

OP Cond: : Light

Operator: : Ling

Test Spec: : 120V/60Hz Va

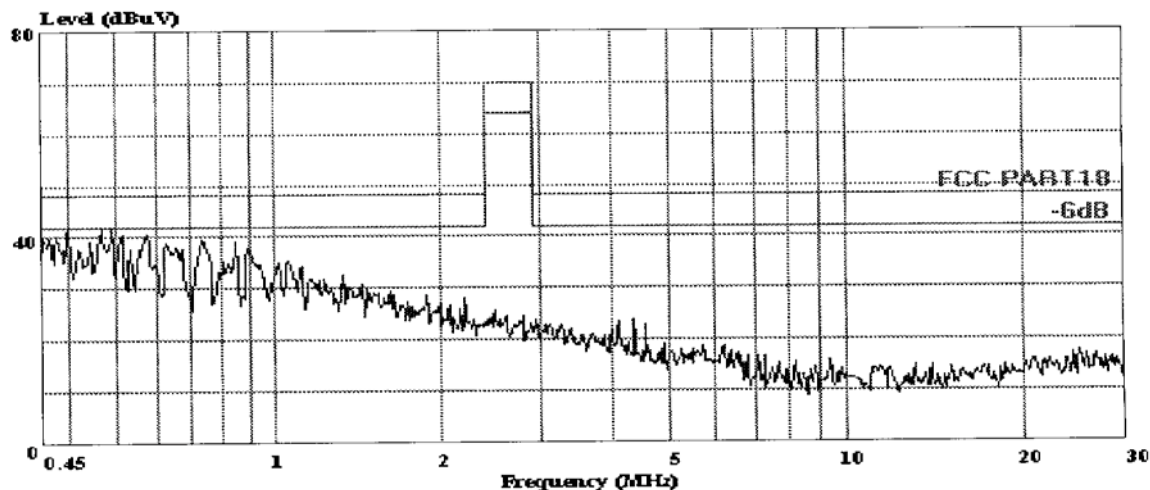
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: Humi: 56%

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Data#: 11 File#: CHANGHONG.EMI Date: 2002-07-01 Time: 17:01:27



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Trace:

Ref Trace:

Condition: FCC PART18 VB (KNW-407)

Eut: : Energy Saving Lamp

M/N: : QSC-20W

OP Cond: : Light

Operator: : Ling

Test Spec: : 120V/60Hz Vb

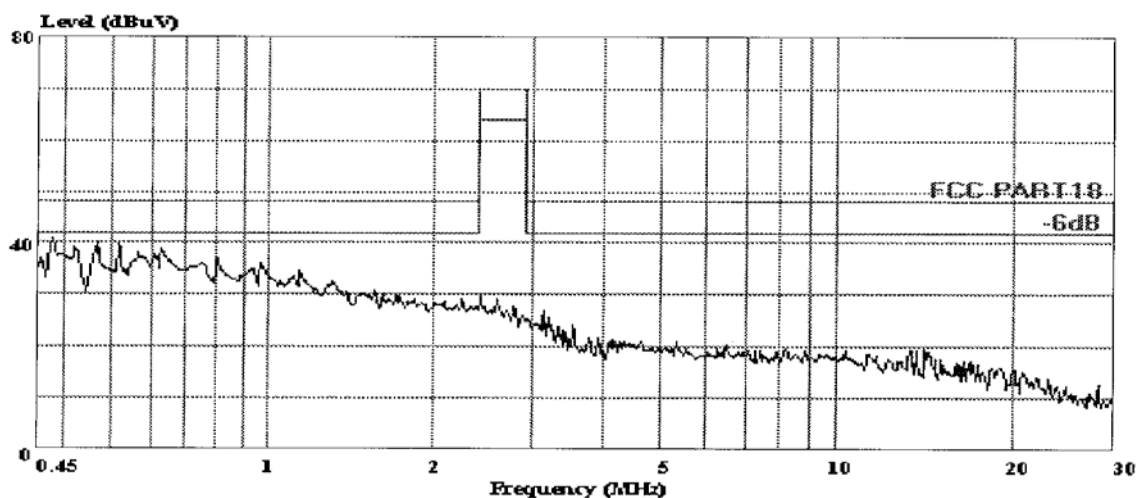
Comment: : Temp: 21°C

: Humi: 56%

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Data#: 10 File#: CHANGHONG.EMI Date: 2002-07-01 Time: 17:00:07



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

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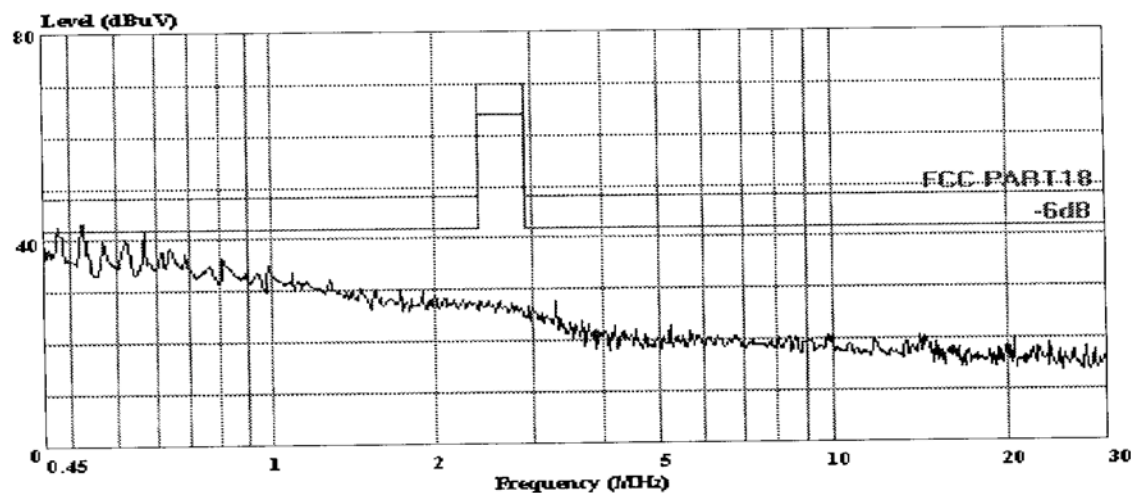
Ref Trace:

Condition: FCC PART18 VB(KNW-407)
Eut: : Energy Saving Lamp
M/N: : QSC-15W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Vb
Comment: : Temp:21'C
: Humi:56%

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Data#: 9 File#: CHANGHONG.EMI Date: 2002-07-01 Time: 16:58:53



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

Trace:

Ref Trace:

Condition: FCC PART18 VA(KNW-407)
Eut: : Energy Saving Lamp
M/N: : QSC-15W
OP Cond: : Light
Operator: : Ling
Test Spec: : 120V/60Hz Va
Comment: : Temp:21'C
: Humi:56%

APPENDIX 2

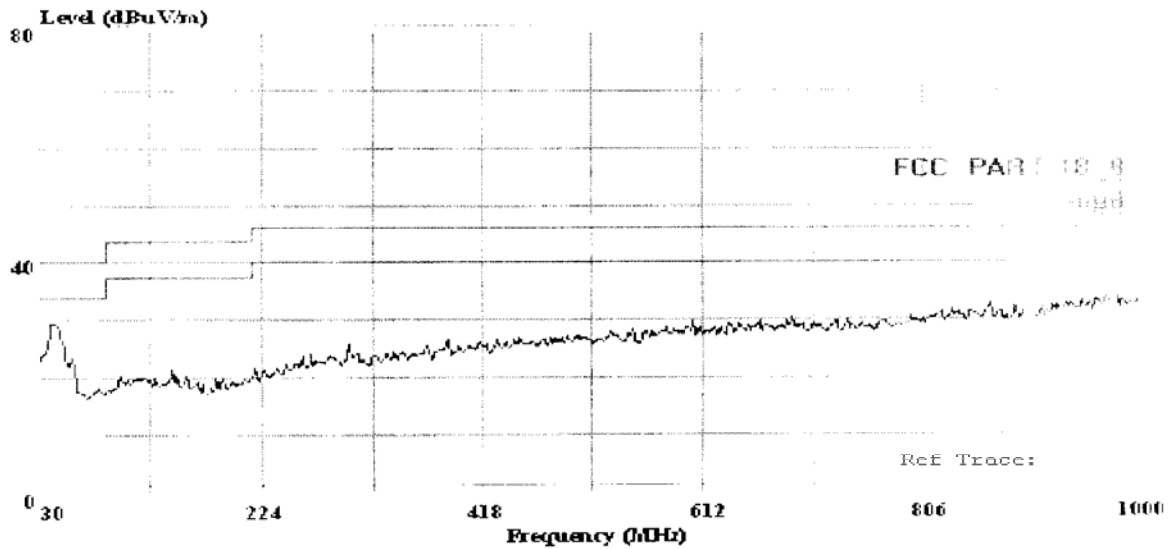
Radiation Test Data



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Fax: 0755-6632877

Data#: File#: changhong.EMI Date: 2007-07-02 Time: 11:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

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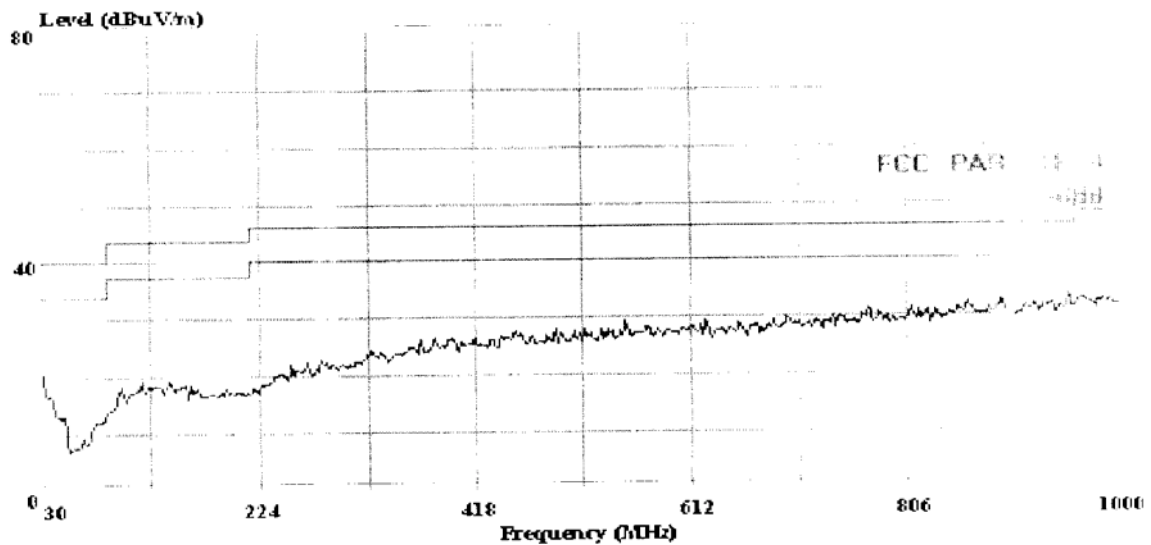
Condition: FCC PART 18 B 3m 2598FACTOR VERTICAL
EUT : Energy Saving Lamp
M/N : OSC-25W
Power: 120V/60Hz
Memo: Light



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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Data#: File#: changhong.EMI Date: 2007-07-02 Time: 11:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

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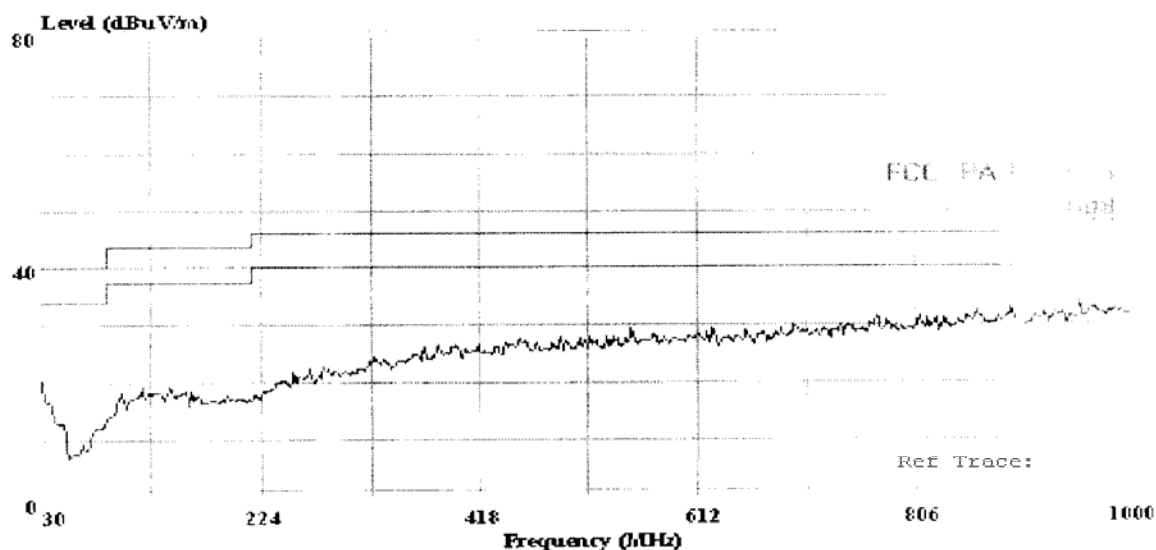
Condition: FCC PART 18 B 3m 2598FACTOR HORIZONTAL
EUT : Energy Saving Lamp
M/N : OSC-25W
Power: 120V/60Hz
Memo: Light

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Data#: File#: changhong.EMI Date: 2007-07-02 Time: 14:11:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

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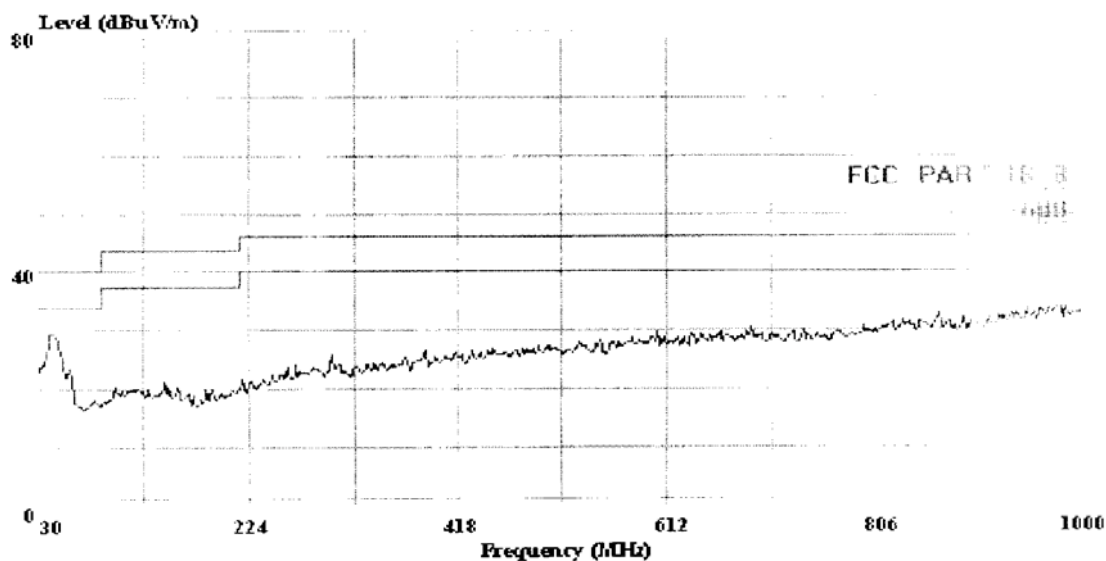
Condition: FCC PART 18 B 3m 2598 FACTOR HORIZONTAL
 EUT : Energy Saving Lamp
 M/N : OSC-23W
 Power: 120V/60Hz
 Memo: Light

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Data#: File#: changhong.EMI Date: 2007-07-02 Time: 14:11:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

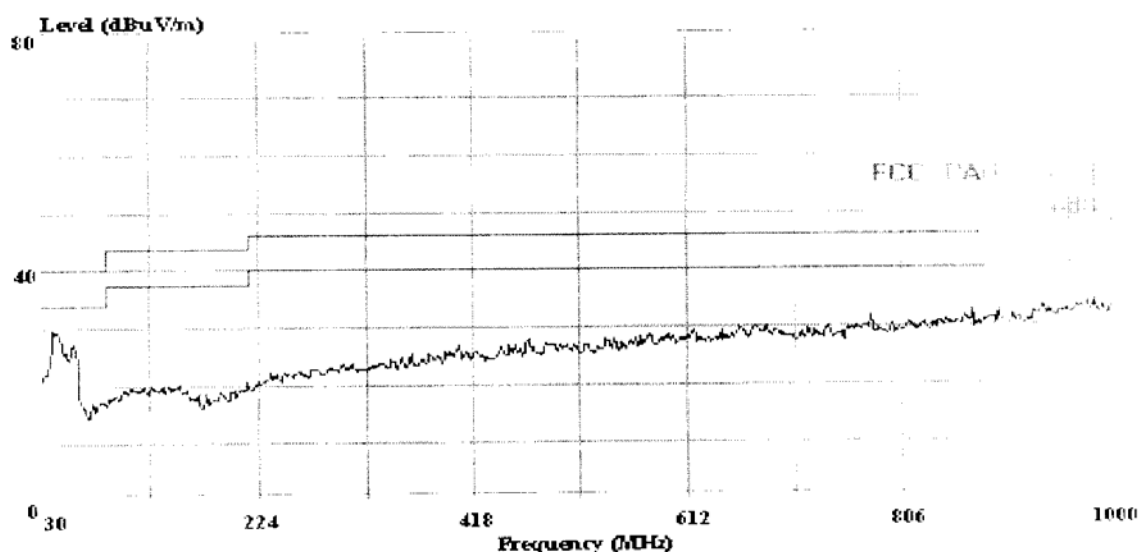
Condition: FCC PART 18 B 3m 2598 FACTOR VERTICAL
 EUT : Energy Saving Lamp
 M/N : OSC-23W
 Power: 120V/60Hz
 Memo: Light



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Data#: File#: changhong.EMI Date: 2002-07-02 Time: 14:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

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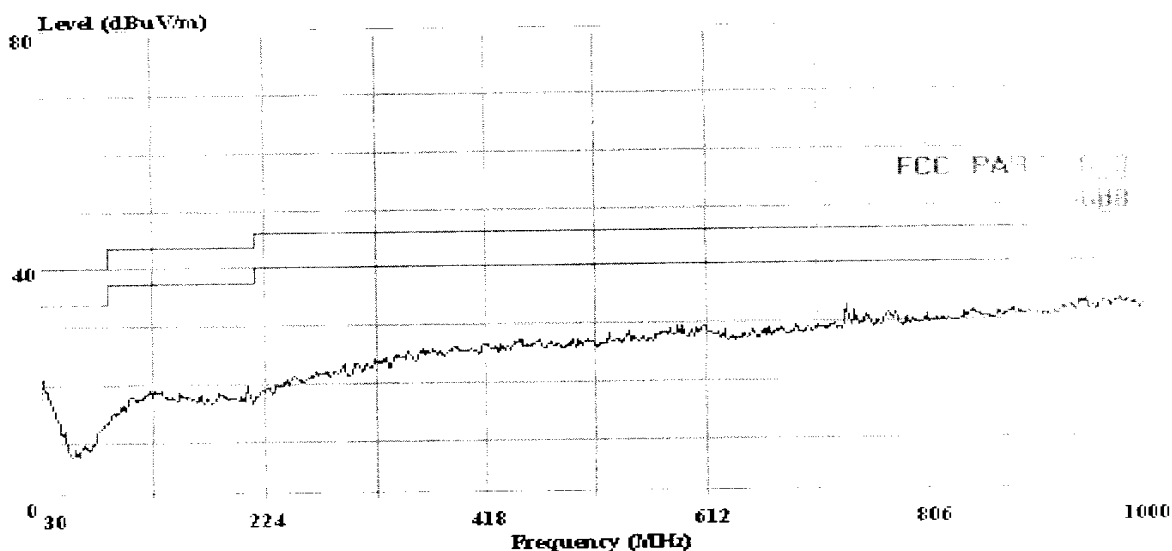
Condition: FCC PART 18 B 3m 2598FACTOR VERTICAL
EUT : Energy Saving Lamp
M/N : OSC-20W
Power: 120V/60Hz
Memo: Light



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Data#: File#: changhong.EMI Date: 2002-07-02 Time: 14:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

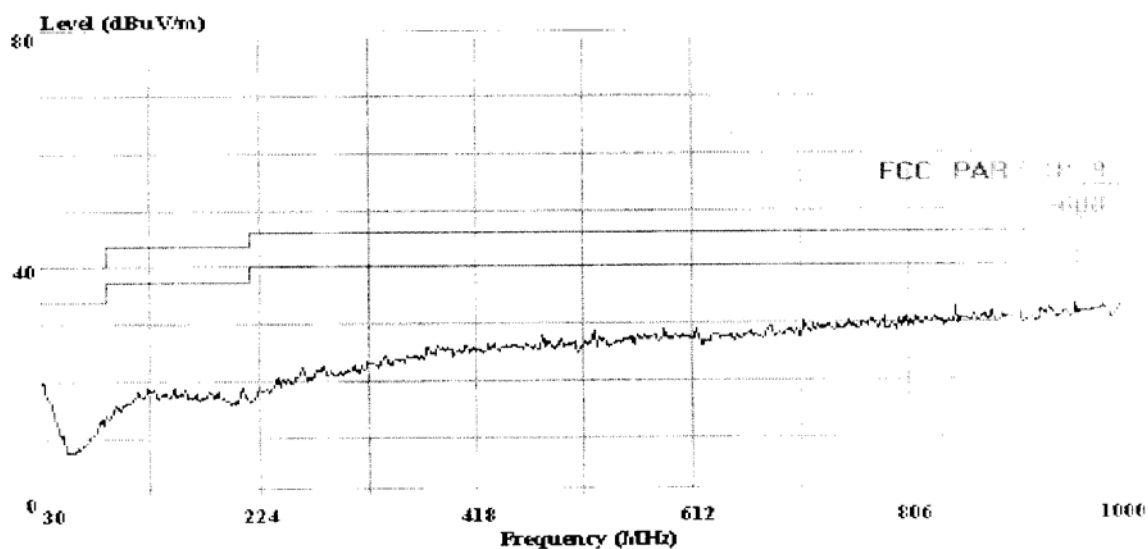
Condition: FCC PART 18 B 3m 2598FACTOR HORIZONTAL
EUT : Energy Saving Lamp
M/N : OSC-20W
Power: 120V/60Hz
Memo: Light

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Shenzhen Science & Technology Co., Ltd.
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Fax: 0755-66328777

Data#: File#: changhong.EMI Date: 2002-07-02 Time: 11:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref. Trace:

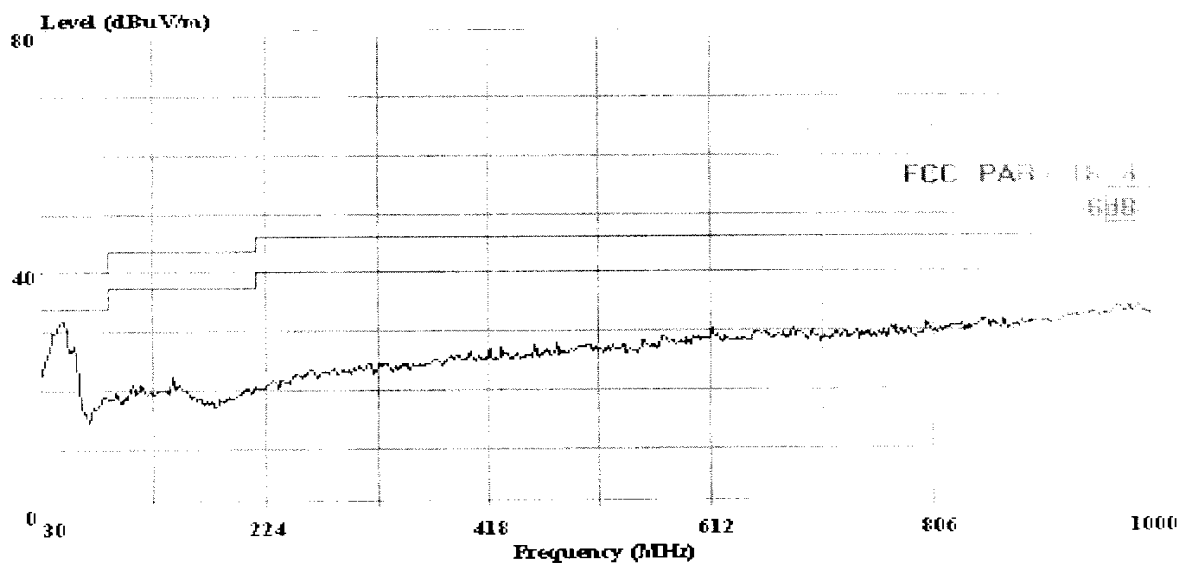
Condition: FCC PART 18 B 3m 2598FACTOR HORIZONTAL
 EUT : Energy Saving Lamp
 M/N : OSC-15W
 Power: 120V/60Hz
 Memo: Light

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Fax: 0755-66328777

Data#: File#: changhong.EMI Date: 2002-07-02 Time: 11:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref. Trace:

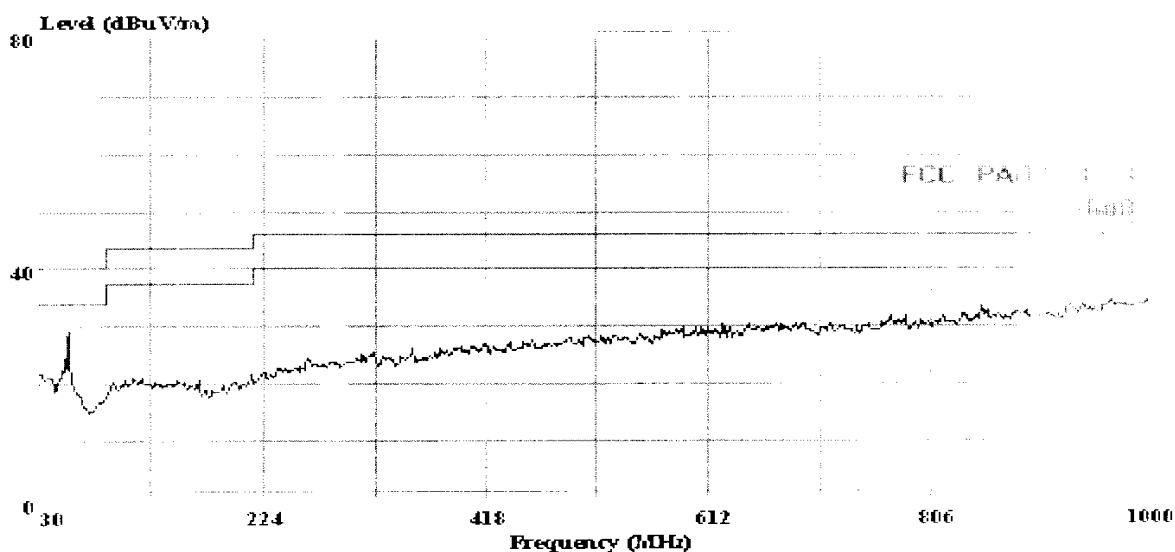
Condition: FCC PART 18 B 3m 2598FACTOR VERTICAL
 EUT : Energy Saving Lamp
 M/N : OSC-15W
 Power: 120V/60Hz
 Memo: Light



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Shenzhen Science & Technology Park
Tel: 0755-66394951
Fax: 0755-6632877

Data#: File#: changhong.EMI Date: 2002-07-01 Time: 14:00



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 18 B 3m 2598FACTOR VERTICAL

PUT : Energy Saving Lamp

M/N : OSM-25W

Power: 120V/60Hz

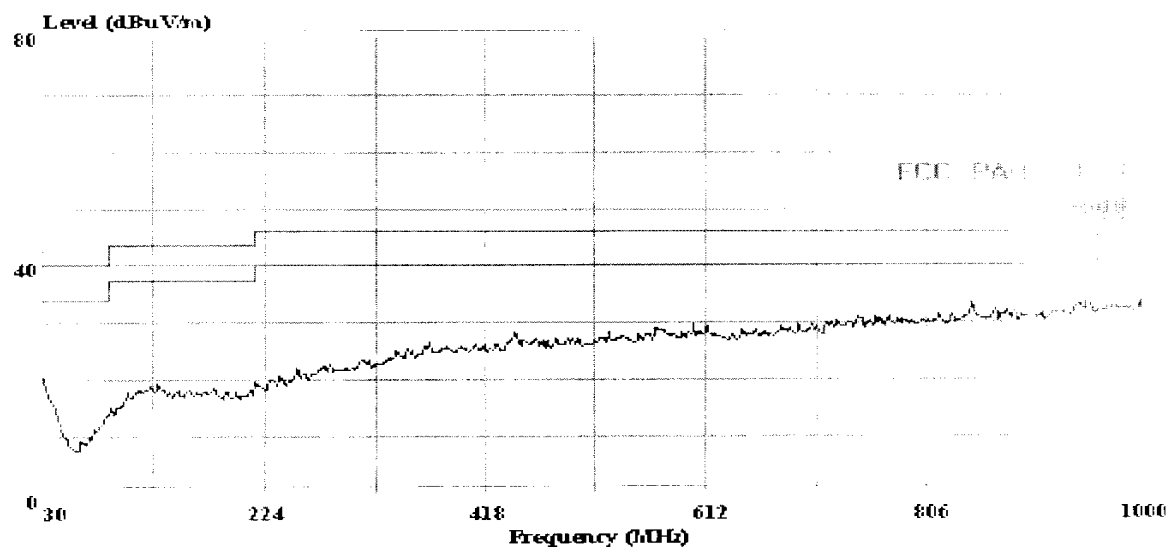
Memo: Light



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Tel: 0755-66394951
Fax: 0755-6632877

Data#: File#: changhong.EMI Date: 2002-07-01 Time: 14:00



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 18 B 3m 2598FACTOR HORIZONTAL

PUT : Energy Saving Lamp

M/N : OSM-25W

Power: 120V/60Hz

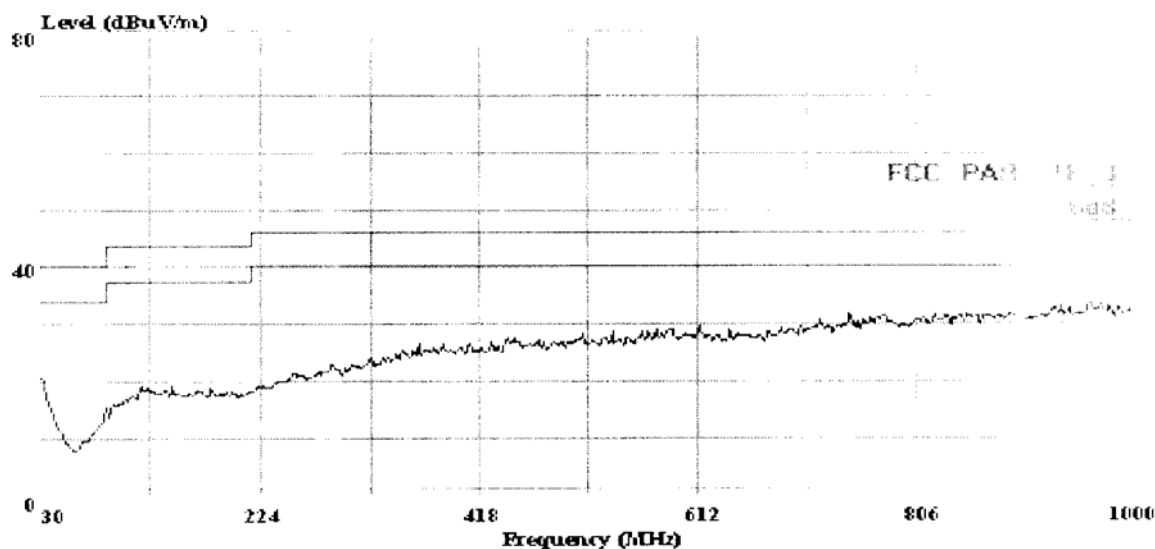
Memo: Light



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Shenzhen Science & Technology Park
Tel: 0755-66394954
Fax: 0755-66328777

Data#: File#: changhong.EMI Date: 2002-07-01 Time: 11:11:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

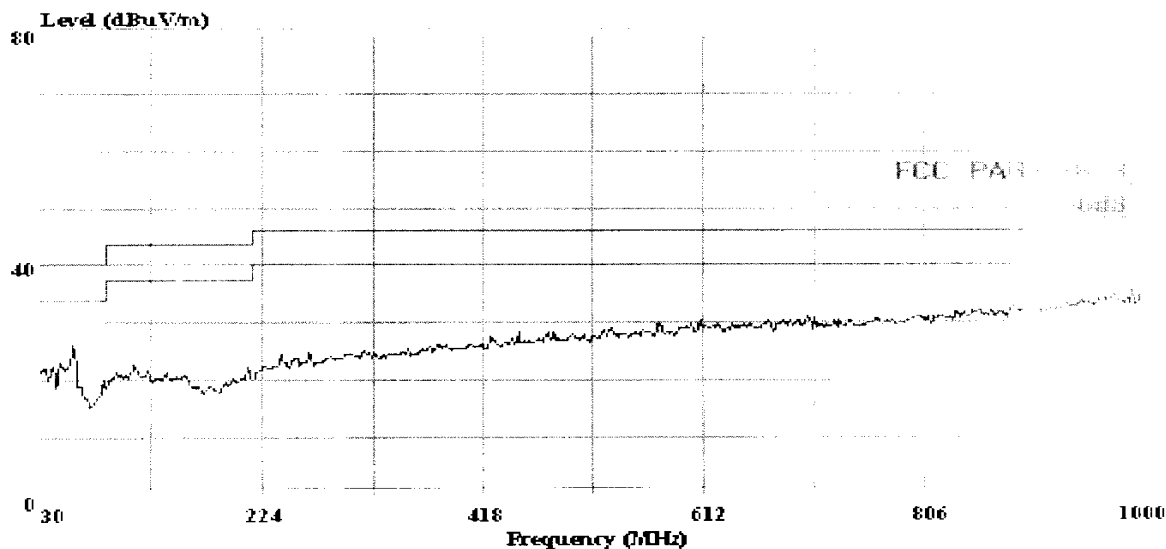
Condition: FCC PART 18 B 3m 2598FACTOR HORIZONTAL
EUT : Energy Saving Lamp
M/N : OSM-23W
Power: 120V/60Hz
Memo: Light



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Technology Park
Tel: 0755-66394954
Fax: 0755-66328777

Data#: File#: changhong.EMI Date: 2002-07-01 Time: 11:11:11



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 18 B 3m 2598FACTOR VERTICAL
EUT : Energy Saving Lamp
M/N : OSM-23W
Power: 120V/60Hz
Memo: Light



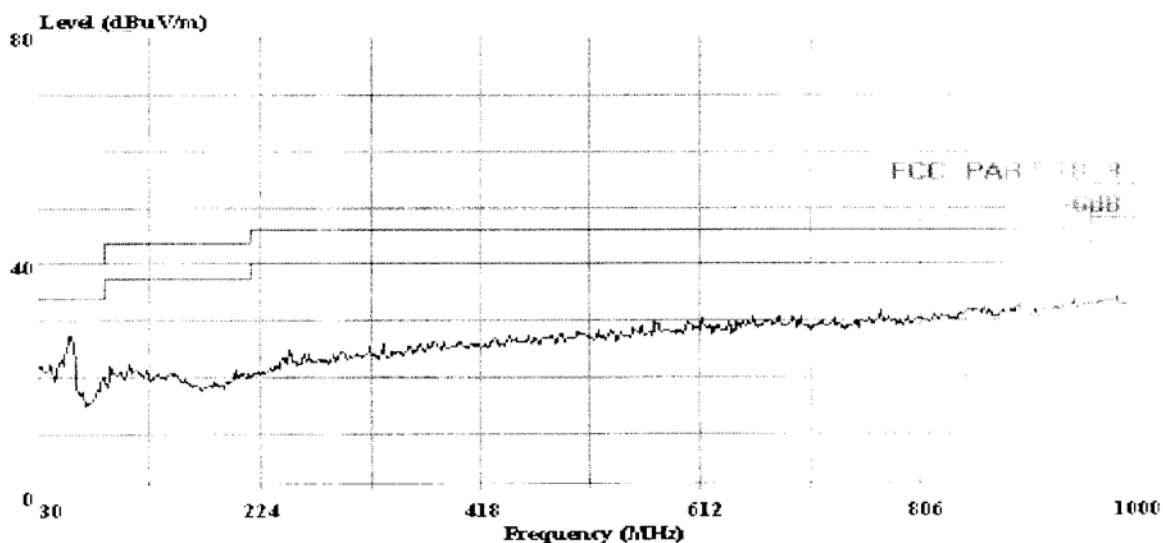
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Technology Park

Tel: 0755-66394950

Fax: 0755-6632877

Data#: File#: changhong.EMI Date: 2002-07-01 Time: 11:10



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 18.3 3m 2598FACTOR VERTICAL

EUT : Energy Saving Lamp

M/N : QSM-20W

Power: 120V/60Hz

Memo: Light



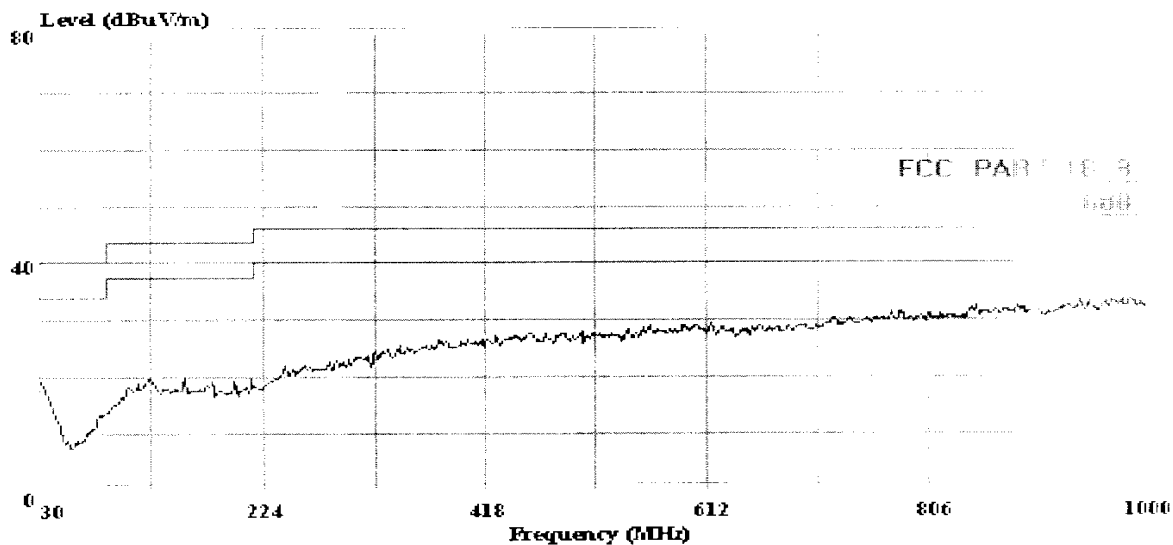
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Technology Park

Tel: 0755-66394950

Fax: 0755-6632877

Data#: File#: changhong.EMI Date: 2002-07-01 Time: 11:10



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 18.3 B 3m 2598FACTOR HORIZONTAL

EUT : Energy Saving Lamp

M/N : QSM-20W

Power: 120V/60Hz

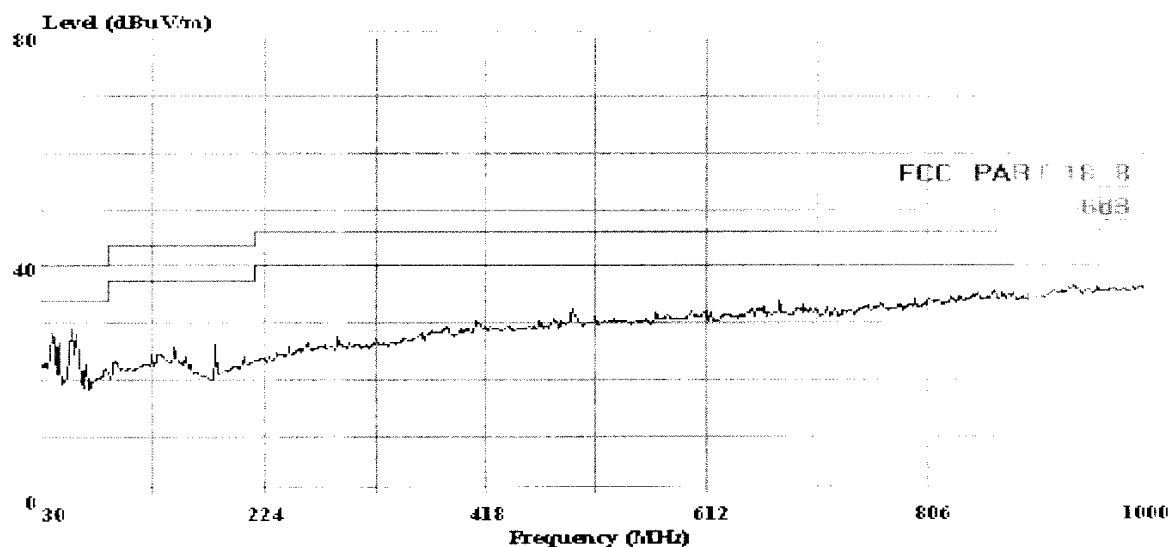
Memo: Light



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Tech. Park
Tel: 0755-6639495-7
Fax: 0755-6632877

Data#: File#: changhong.EMI Date: 2001-07-01 Time: 11:41:30



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (#3 Chamber)

Trace:

Ref Trace:

Condition: FCC PART 18 B 3m 2598FACTOR VERTICAL

EUT : Energy Saving Lamp

M/N : QSM-15W

Power: 120V/60Hz

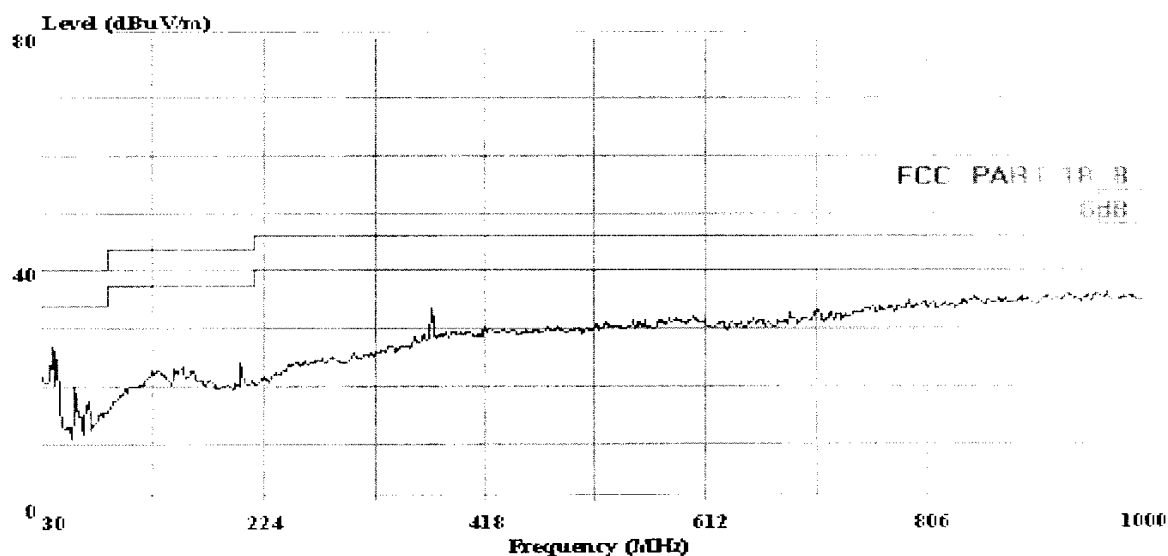
Memo: Light



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Tech. Park
Tel: 0755-6639495-7
Fax: 0755-6632877

Data#: File#: changhong.EMI Date: 2002-07-01 Time: 11:13:13



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (#3 Chamber)

Trace:

Ref Trace:

Condition: FCC PART 18 B 3m 2598FACTOR HORIZONTAL

EUT : Energy Saving Lamp

M/N : QSM-15W

Power: 120V/60Hz

Memo: Light