Application for FCC Certificate
On Behalf of
Shanghai Junsun Lighting Co., Ltd.

Energy Saving Lamp

Model No.:	JLG-18W	JLG-20W	JLG-23W	JLG-25W
	JLQ-18W	JLQ-20W	JLQ-23W	JLQ-25W
	JLR-18W	JLR-20W	JLR-23W	JLR-25W

FCC ID: P97JUNSUN0211

Prepared For : Shanghai Junsun Lighting Co., Ltd.
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Report No. : ACI-F02103
Date of Test : Sep 17~ Oct 25, 2002
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TEST REPORT FOR FCC CERTIFICATE

Applicant : Shanghai Junsun Lighting Co., Ltd.

Manufacturer : Shanghai Junsun Lighting Co., Ltd.

EUT Description : Energy Saving Lamp

(A) Model No.:
JLG-18W; JLG-20W; JLG-23W; JLG-25W
JLQ-18W; JLQ-20W; JLQ-23W; JLQ-25W
JLR-18W; JLR-20W; JLR-23W; JLR-25W

(B) Serial No.:
E02091601; E02091602; E02091603; E02091604
E02091609; E02091610; E02091611; E02091612
E02091605; E02091606; E02091607; E02091608

(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 : Sep 17~ Oct 25, 2002

Prepared by : Cathrin Yin 2002.10.27 CATHRIN YIN (Assistant)

Test Engineer : Coffon Ye 2002.10.30 COFFON YE (Engineer)

AUDIX For and on behalf of Audix Technology (Shanghai) Co., Ltd.

Reviewer : Byron Kwo 2002 BYRON KWO (Supervisor)

Approved Signatory : Alex Chiu 2002.11.05 ALEX CHIU (Assistant Manager)

Authorized Signatory(s)

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description : Energy Saving Lamp

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

Model Number : JLG-18W; JLG-20W; JLG-23W; JLG-25W
JLQ-18W; JLQ-20W; JLQ-23W; JLQ-25W
JLR-18W; JLR-20W; JLR-23W; JLR-25W
The three Serial products are all same, only except the shade. In this report, all the products were tested and reported.

Applicant : Shanghai Junsun Lighting Co., Ltd.
Beiguan, Malu town,
Jiading, Shanghai,
China.

Manufacturer : Shanghai Junsun Lighting Co., Ltd.
Beiguan, Malu town,
Jiading, Shanghai,
China.

Test Model	Apparent Power (V • A)	Real Power (W)
JLG-18W	33.70	19.50
JLG-20W	43.10	24.70
JLG-23W	50.40	29.30
JLG-25W	35.90	19.30
JLQ-18W	30.68	17.15
JLQ-20W	38.70	21.20
JLQ-23W	38.60	21.30
JLQ-25W	40.20	22.80
JLR-18W	33.90	19.90
JLR-20W	41.60	23.50
JLR-23W	50.00	29.40
JLR-25W	42.60	24.20

1.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber)	:	Sept. 17, 1998 file on 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 = ±2.66dB

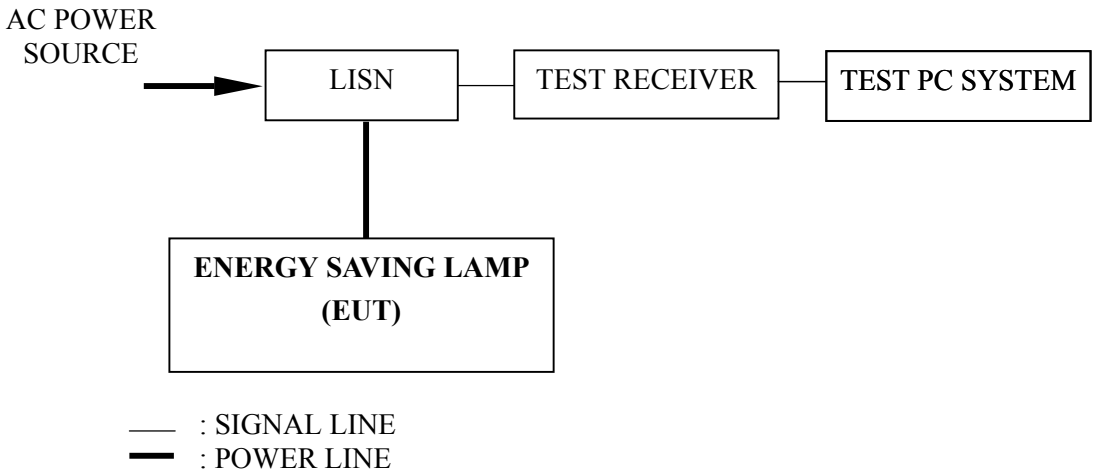
2 AC POWERLINE CONDUCTED EMISSION TEST

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	844077/007	Jun 03, 2002	1 Year
2.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-5	May 09, 2002	1 Year

2.2 Block Diagram of Test Setup



2.3 Conducted Emission Limits

Frequency (MHz)	Maximum RF Line Voltage	
	(μV)	dB(μV)
0.45 ~ 2.51	250	48
2.51 ~ 3	3000	70
3 ~ 30	250	48

NOTE 1 – RF Line Voltage dB (μV) = 20 log RF Line Voltage (μV)
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

2.5.1 Setup the EUT as shown in Sec. 2.2.

2.5.2 Turn on the power of all equipment.

2.5.3 The EUT will be operated normally.

2.6 Test Procedures

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

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	:	Energy Saving Lamp	Temperature :	23℃
Model No.	:	JLG-18W	Humidity :	56%
Test Mode	:	ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	**0.536**	**0.05**	**37.97**	**38.02**	**48.00**	**9.98**
	0.706	0.03	34.61	34.64	48.00	13.36
	1.084	0.05	26.77	26.82	48.00	21.18
	1.569	0.05	24.06	24.11	48.00	23.89
	2.570	0.06	21.41	21.47	70.00	48.53
	6.342	0.09	12.83	12.92	48.00	35.08
VB	0.535	0.09	35.60	35.69	48.00	12.31
	0.706	0.08	33.86	33.94	48.00	14.06
	1.229	0.09	23.99	24.08	48.00	23.92
	2.724	0.10	21.81	21.91	70.00	48.09
	4.018	0.10	18.73	18.83	48.00	29.17
	9.824	0.16	12.45	12.61	48.00	35.39

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 0.536 MHz with corrected signal level of 38.02 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT :	Energy Saving Lamp	Temperature :	23℃
Model No. :	JLG-20W	Humidity :	56%
Test Mode :	ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.550	0.05	42.34	42.39	48.00	5.61
	0.671	0.03	37.85	37.88	48.00	10.12
	0.848	0.04	39.60	39.64	48.00	8.36
	1.124	0.05	38.67	38.72	48.00	9.28
	2.875	0.07	36.13	36.20	70.00	33.80
	7.478	0.11	30.08	30.19	48.00	17.81
VB	0.573	0.09	41.14	41.23	48.00	6.77
	0.739	**0.08**	**42.96**	**43.04**	**48.00**	**4.96**
	0.907	0.08	41.44	41.52	48.00	6.48
	1.320	0.09	38.50	38.59	48.00	9.41
	2.901	0.10	35.95	36.05	70.00	33.95
	9.415	0.15	27.01	27.16	48.00	20.84

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 0.739 MHz with corrected signal level of 43.04 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT :	Energy Saving Lamp	Temperature :	23℃
Model No. :	JLG-23W	Humidity :	56%
Test Mode :	ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.555	0.05	42.35	42.40	48.00	5.60
	0.689	**0.03**	**43.37**	**43.40**	**48.00**	**4.60**
	0.872	0.04	42.29	42.33	48.00	5.67
	1.376	0.05	38.34	38.39	48.00	9.61
	2.161	0.05	34.95	35.00	48.00	13.00
	8.230	0.13	24.80	24.93	48.00	23.07
VB	0.469	0.09	41.67	41.76	48.00	6.24
	0.598	0.08	41.67	41.75	48.00	6.25
	0.776	0.08	41.83	41.91	48.00	6.09
	1.564	0.09	37.74	37.83	48.00	10.17
	5.504	0.10	28.52	28.62	48.00	19.38
	13.284	0.26	23.64	23.90	48.00	24.10

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 0.689 MHz with corrected signal level of 43.40 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT :	Energy Saving Lamp	Temperature :	23℃
Model No. :	JLG-25W	Humidity :	56%
Test Mode :	ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.493	0.06	44.11	44.17	48.00	3.83
	0.570	0.05	44.20	44.25	48.00	3.75
	0.719	0.03	43.30	43.33	48.00	4.67
	0.950	0.05	40.23	40.28	48.00	7.72
	3.000	0.07	36.20	36.27	70.00	33.73
	21.261	0.62	29.34	29.96	48.00	18.04
VB	0.498	0.09	44.11	44.20	48.00	3.80
	0.648	**0.08**	**44.31**	**44.39**	**48.00**	**3.61**
	0.876	0.08	42.20	42.28	48.00	5.72
	1.710	0.10	35.32	35.42	48.00	12.58
	3.052	0.10	35.64	35.74	48.00	12.26
	13.744	0.28	28.27	28.55	48.00	19.45

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 0.648 MHz with corrected signal level of 44.39 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT :	Energy Saving Lamp	Temperature :	23℃
Model No. :	JLQ-18W	Humidity :	56%
Test Mode :	ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.509	0.06	38.58	38.64	48.00	9.36
	0.584	0.05	34.76	34.81	48.00	13.19
	1.021	0.05	30.68	30.73	48.00	17.27
	1.726	0.05	25.08	25.13	48.00	22.87
	3.404	0.07	23.95	24.02	48.00	23.98
	8.516	0.14	17.93	18.07	48.00	29.93
VB	**0.510**	**0.09**	**39.60**	**39.69**	**48.00**	**8.31**
	0.593	0.08	36.73	36.81	48.00	11.19
	1.106	0.08	29.13	29.21	48.00	18.79
	1.700	0.10	30.39	30.49	48.00	17.51
	3.490	0.10	22.52	22.62	48.00	25.38
	10.381	0.17	18.25	18.42	48.00	29.58

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 0.510 MHz with corrected signal level of 39.69 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT :	Energy Saving Lamp	Temperature :	23℃
Model No. :	JLQ-20W	Humidity :	56%
Test Mode :	ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.457	0.06	42.95	43.01	48.00	4.99
	0.539	0.05	42.86	42.91	48.00	5.09
	0.703	0.03	42.66	42.69	48.00	5.31
	0.966	0.05	42.43	42.48	48.00	5.52
	1.221	0.05	43.54	43.59	48.00	4.41
	4.714	0.09	33.36	33.45	48.00	14.55
VB	**0.459**	**0.09**	**43.72**	**43.81**	**48.00**	**4.19**
	0.538	0.09	42.58	42.67	48.00	5.33
	0.626	0.08	42.95	43.03	48.00	4.97
	0.880	0.08	42.32	42.40	48.00	5.60
	1.423	0.09	37.05	37.14	48.00	10.86
	8.987	0.14	28.97	29.11	48.00	18.89

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 0.459 MHz with corrected signal level of 43.81 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT	: Energy Saving Lamp	Temperature :	23℃
Model No.	: JLQ-23W	Humidity :	56%
Test Mode	: ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	**0.521**	**0.06**	**37.38**	**37.44**	**48.00**	**10.56**
	0.670	0.03	36.63	36.66	48.00	11.34
	1.041	0.05	36.50	36.55	48.00	11.45
	1.281	0.05	37.15	37.20	48.00	10.80
	2.291	0.06	35.10	35.16	48.00	12.84
	5.993	0.09	28.46	28.55	48.00	19.45
VB	0.478	0.09	35.23	35.32	48.00	12.68
	0.593	0.08	36.01	36.09	48.00	11.91
	0.842	0.08	35.04	35.12	48.00	12.88
	1.115	0.08	35.15	35.23	48.00	12.77
	1.444	0.09	36.97	37.06	48.00	10.94
	4.224	0.10	32.08	32.18	48.00	15.82

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 0.521 MHz with corrected signal level of 37.44 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT	: Energy Saving Lamp	Temperature :	23℃
Model No.	: JLQ-25W	Humidity :	56%
Test Mode	: ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	**0.514**	**0.06**	**41.32**	**41.38**	**48.00**	**6.62**
	0.662	0.04	39.93	39.97	48.00	8.03
	0.845	0.04	41.14	41.18	48.00	6.82
	1.063	0.05	40.41	40.46	48.00	7.54
	3.050	0.07	34.14	34.21	48.00	13.79
	8.081	0.13	28.51	28.64	48.00	19.36
VB	0.512	0.09	40.43	40.52	48.00	7.48
	0.699	0.08	39.05	39.13	48.00	8.87
	0.990	0.08	38.30	38.38	48.00	9.62
	1.801	0.10	36.52	36.62	48.00	11.38
	4.190	0.10	32.52	32.62	48.00	15.38
	22.279	0.51	28.04	28.55	48.00	19.45

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 0.514 MHz with corrected signal level of 41.38 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT :	Energy Saving Lamp	Temperature :	23℃
Model No. :	JLR-18W	Humidity :	56%
Test Mode :	ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.528	0.06	32.66	32.72	48.00	15.28
	0.649	0.04	32.77	32.81	48.00	15.19
	0.922	0.05	33.61	33.66	48.00	14.34
	1.569	0.05	29.22	29.27	48.00	18.73
	3.114	0.07	25.27	25.34	48.00	22.66
	8.300	0.13	17.94	18.07	48.00	29.93
VB	0.512	0.09	38.15	38.24	48.00	9.76
	0.696	0.08	35.73	35.81	48.00	12.19
	0.929	**0.08**	**38.63**	**38.71**	**48.00**	**9.29**
	2.174	0.10	30.00	30.10	48.00	17.90
	4.910	0.10	22.02	22.12	48.00	25.88
	9.300	0.15	17.40	17.55	48.00	30.45

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 0.929 MHz with corrected signal level of 38.71 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT :	Energy Saving Lamp	Temperature :	23℃
Model No. :	JLR-20W	Humidity :	56%
Test Mode :	ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	**0.520**	**0.06**	**35.94**	**36.00**	**48.00**	**12.00**
	0.680	0.03	34.27	34.30	48.00	13.70
	0.883	0.04	34.22	34.26	48.00	13.74
	1.234	0.05	33.58	33.63	48.00	14.37
	2.531	0.06	25.27	25.33	70.00	44.67
	9.112	0.16	21.45	21.61	48.00	26.39
VB	0.527	0.09	34.91	35.00	48.00	13.00
	0.797	0.08	32.15	32.23	48.00	15.77
	1.148	0.08	32.39	32.47	48.00	15.53
	2.433	0.10	30.13	30.23	48.00	17.77
	5.181	0.10	25.74	25.84	48.00	22.16
	10.407	0.17	17.99	18.16	48.00	29.84

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 0.520 MHz with corrected signal level of 36.00 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT	: Energy Saving Lamp	Temperature :	23℃
Model No.	: JLR-23W	Humidity :	56%
Test Mode	: ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.575	0.05	37.31	37.36	48.00	10.64
	0.843	**0.04**	**39.66**	**39.70**	**48.00**	**8.30**
	1.326	0.05	38.51	38.56	48.00	9.44
	2.083	0.05	35.13	35.18	48.00	12.82
	5.186	0.09	27.04	27.13	48.00	20.87
	15.195	0.33	21.24	21.57	48.00	26.43
VB	0.618	0.08	32.81	32.89	48.00	15.11
	0.954	0.08	35.23	35.31	48.00	12.69
	1.404	0.09	36.30	36.39	48.00	11.61
	3.194	0.10	31.03	31.13	48.00	16.87
	6.700	0.10	28.56	28.66	48.00	19.34
	15.192	0.32	21.80	22.12	48.00	25.88

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 0.843 MHz with corrected signal level of 39.70 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

EUT :	Energy Saving Lamp	Temperature :	23℃
Model No. :	JLR-25W	Humidity :	56%
Test Mode :	ON	Date of Test :	Sep 17 ~ Oct 25, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.517	0.06	35.53	35.59	48.00	12.41
	0.599	0.04	37.09	37.13	48.00	10.87
	0.842	**0.04**	**37.42**	**37.46**	**48.00**	**10.54**
	1.359	0.05	36.41	36.46	48.00	11.54
	2.905	0.07	25.41	25.48	70.00	44.52
	13.817	0.28	21.67	21.95	48.00	26.05
VB	0.480	0.09	33.27	33.36	48.00	14.64
	0.587	0.09	34.44	34.53	48.00	13.47
	1.287	0.09	35.57	35.66	48.00	12.34
	1.979	0.10	33.81	33.91	48.00	14.09
	5.332	0.10	22.86	22.96	48.00	25.04
	15.455	0.33	21.72	22.05	48.00	26.95

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 0.842 MHz with corrected signal level of 37.46 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.

TEST ENGINEER: Coffon Ye
(COFFON YE)

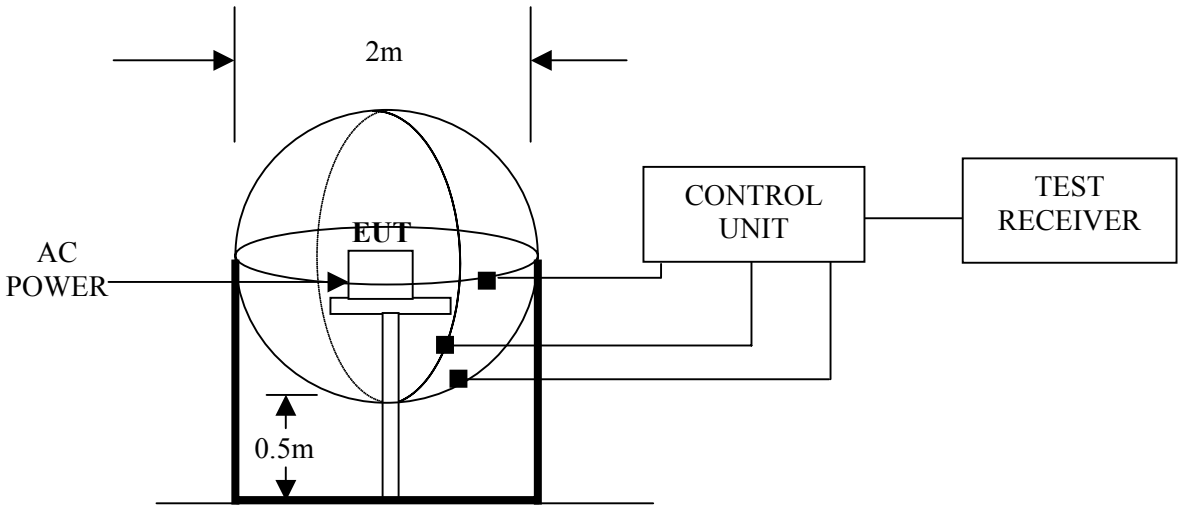
3 FIELDSTRENGTH TEST

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	Apr 29, 2002	1/2 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	844077/007	Jun 03, 2002	1 Year

3.2 Block Diagram of Test Setup



EUT : Energy Saving Lamp

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 (ON) 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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Fax:+86-21-64955491
aciemc@audix.com

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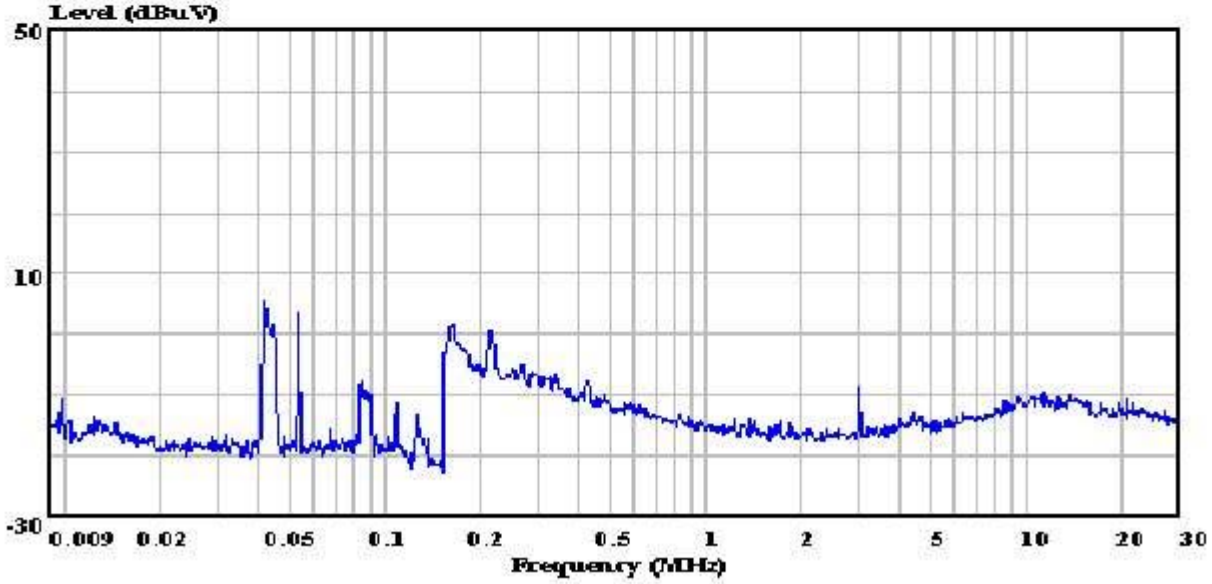

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-18W
S/N : E02091601
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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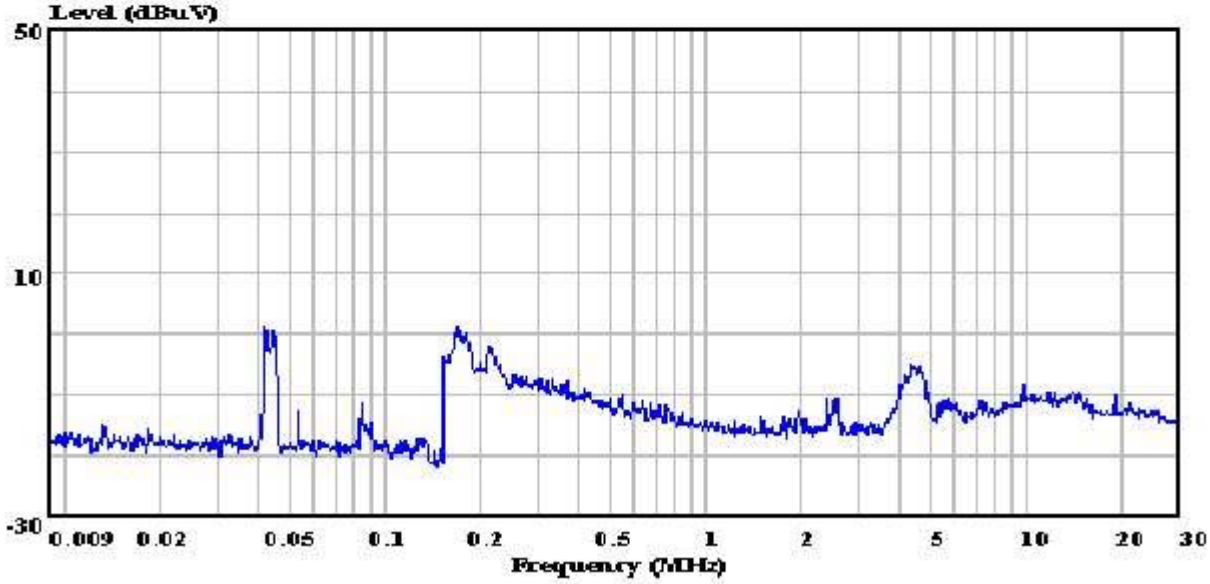

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-18W
S/N : E02091601
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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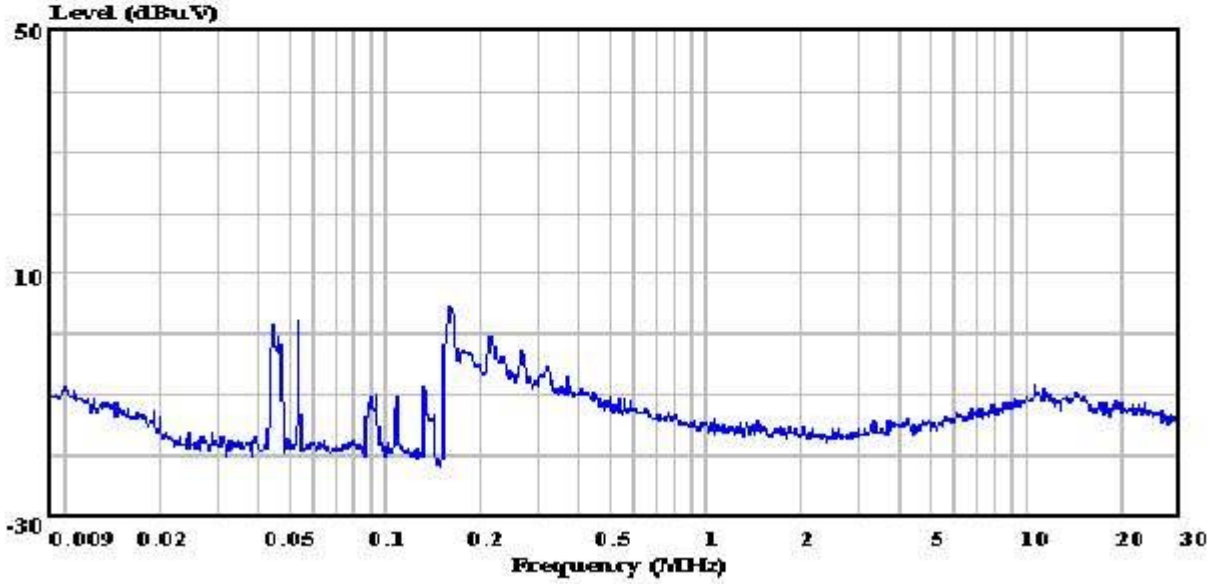

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-18W
S/N : E02091601
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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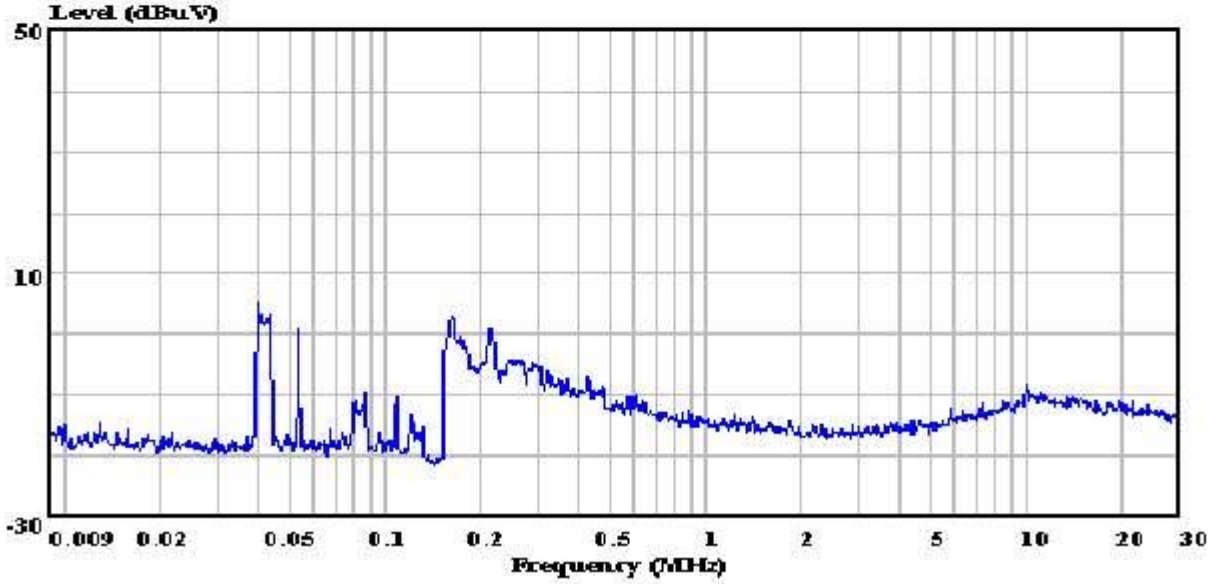

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-20W
S/N : E02091602
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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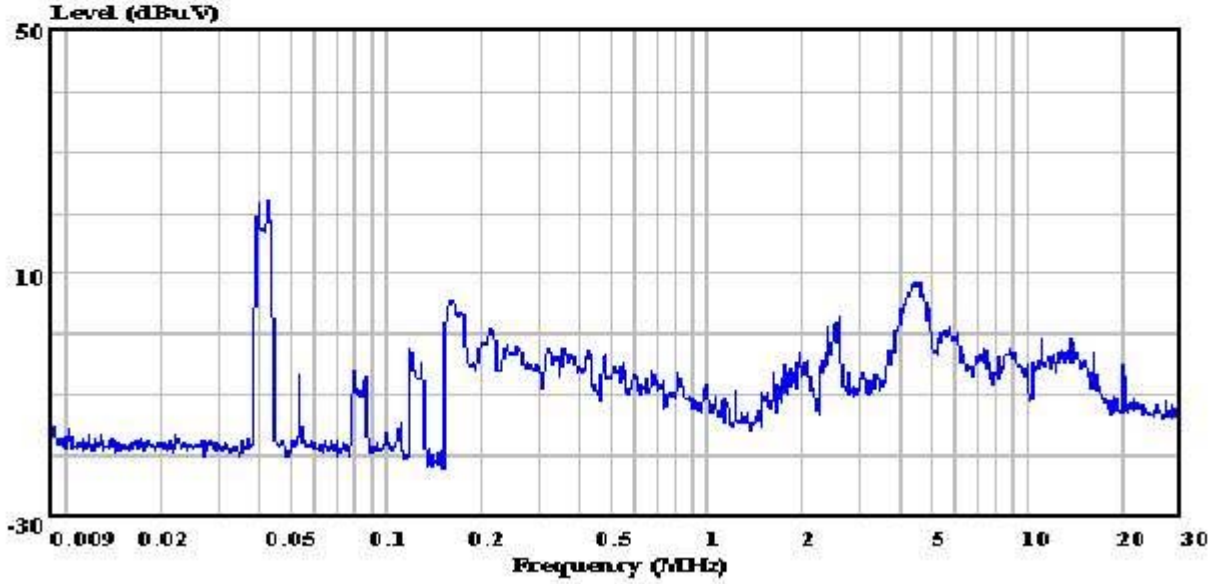

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-20W
S/N : E02091602
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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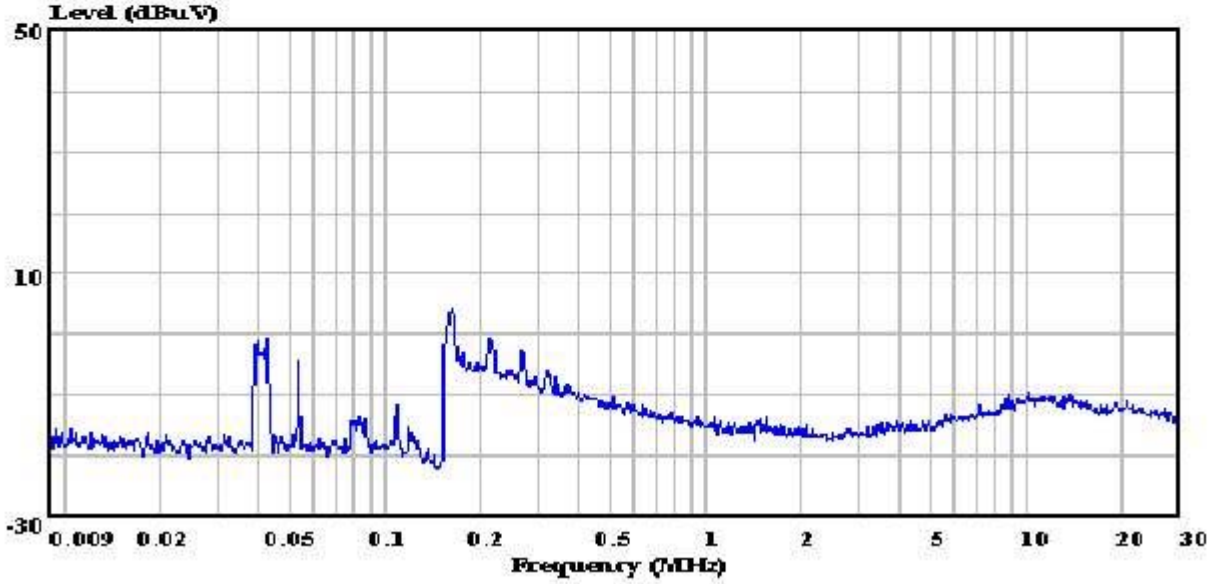

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-20W
S/N : E02091602
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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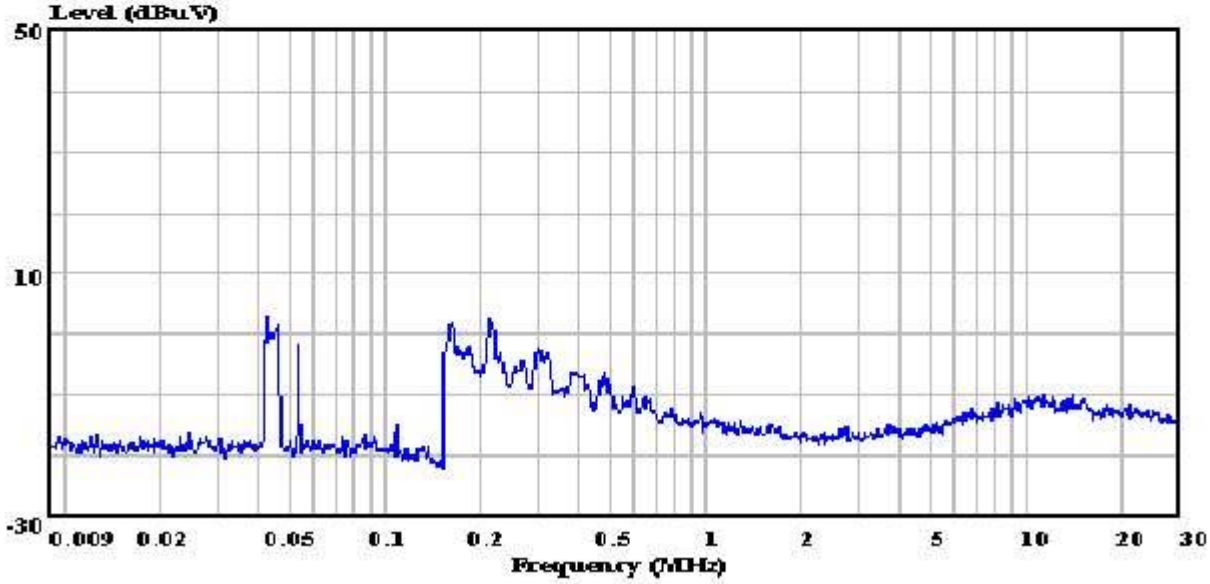
Data#: 39 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-18 Time: 16:26:49



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-23W
S/N : E02091603
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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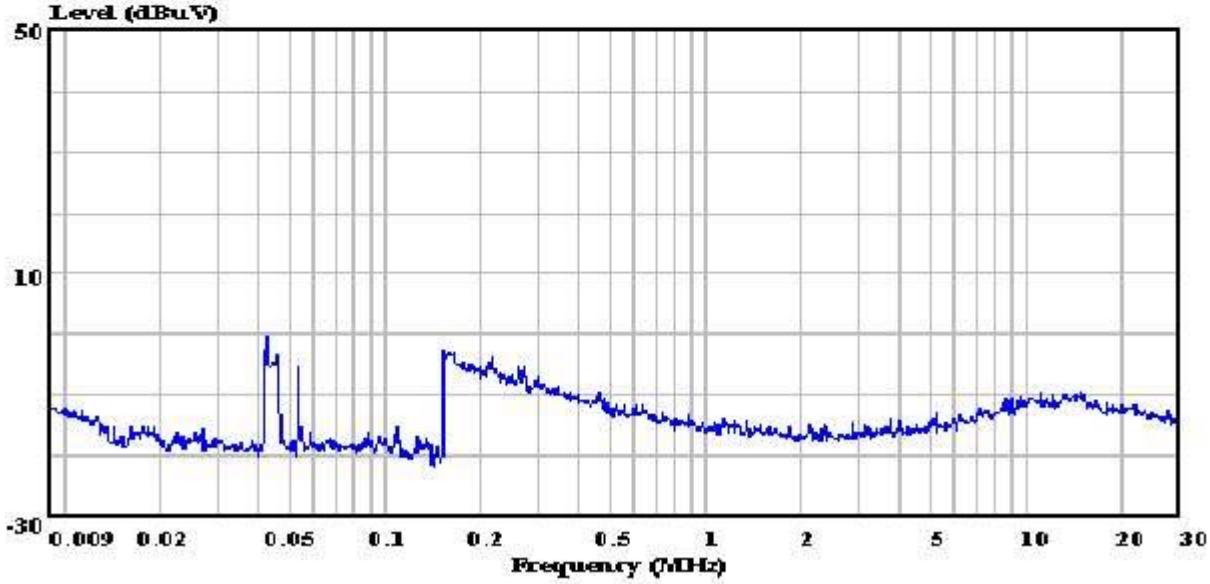

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-23W
S/N : E02091603
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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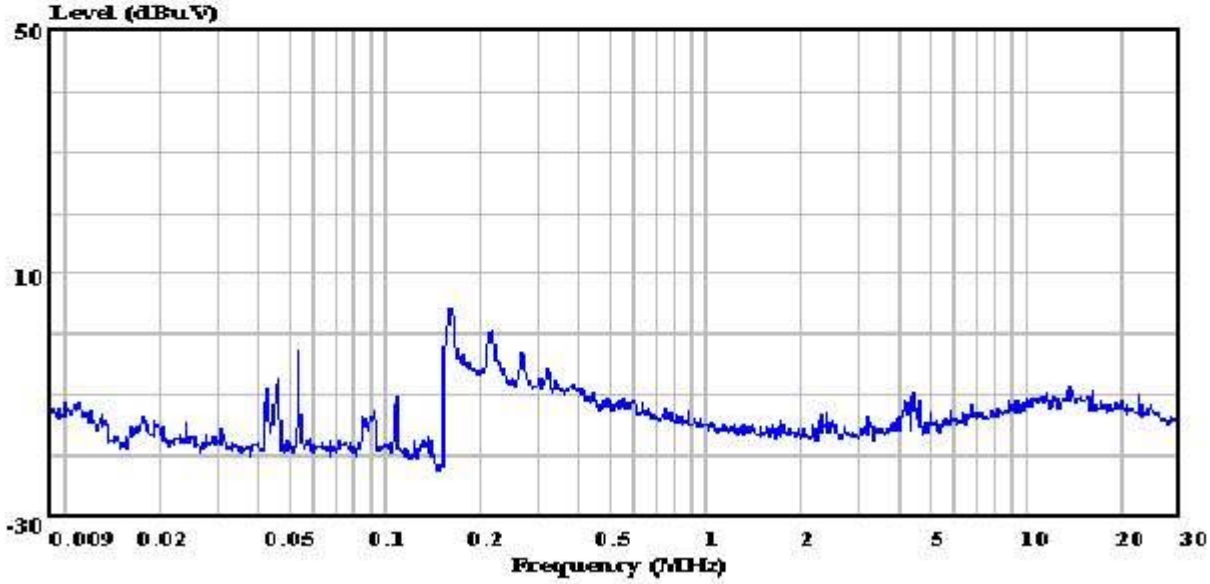

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-23W
S/N : E02091603
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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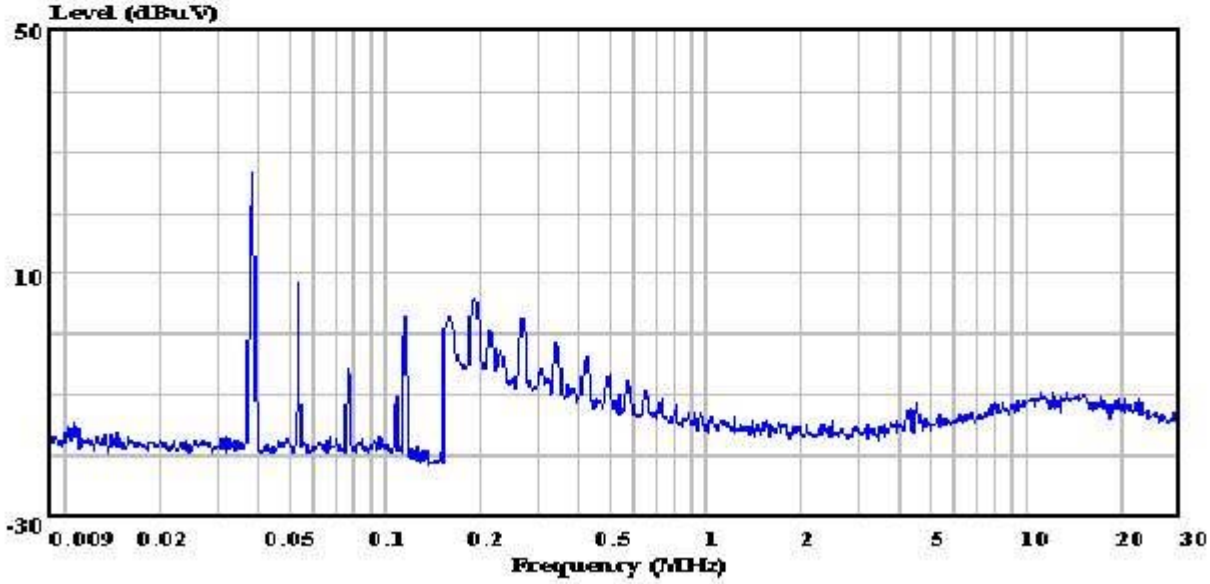

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-25W
S/N : E02091604
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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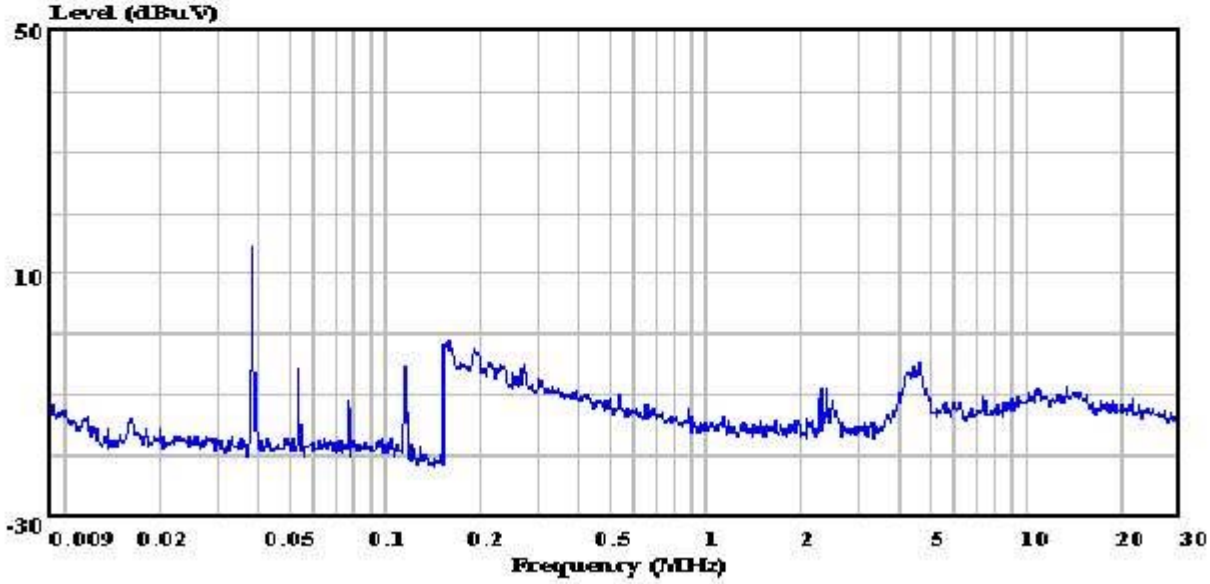

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-25W
S/N : E02091604
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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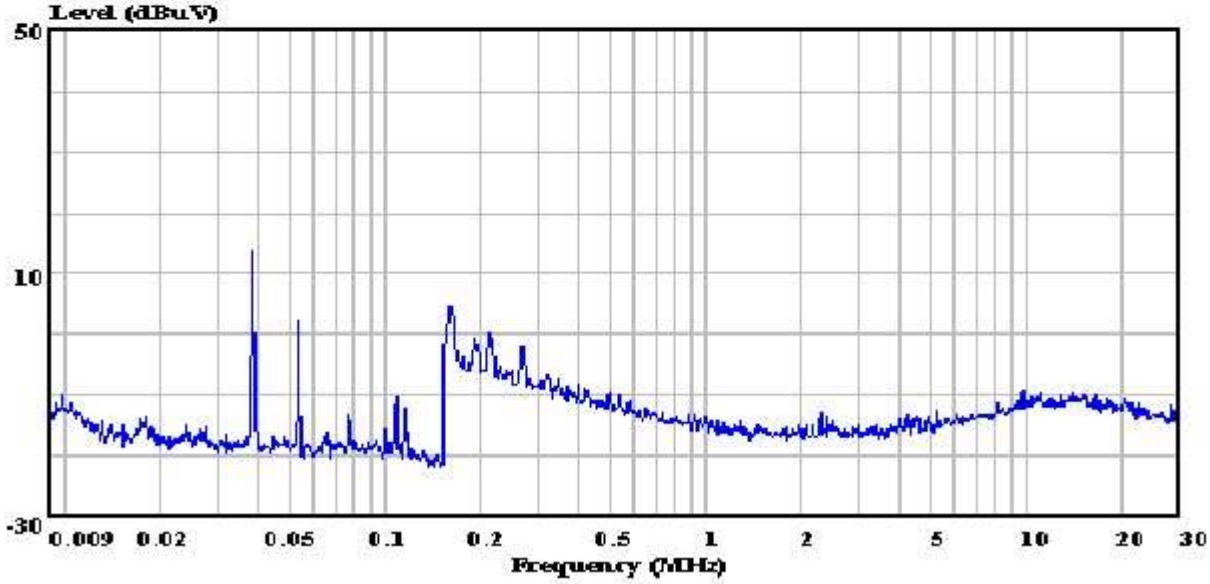
Data#: 48 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-18 Time: 17:02:05



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLG-25W
S/N : E02091604
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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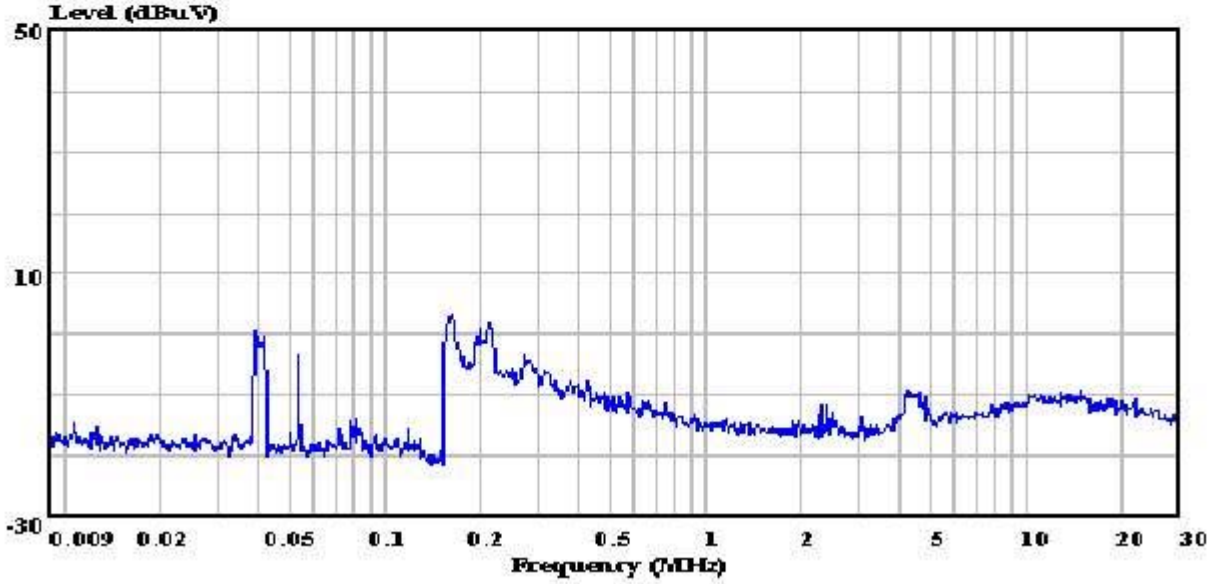
Data#: 123 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-09-19 Time: 12:18:22



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-18W
S/N : E02091609
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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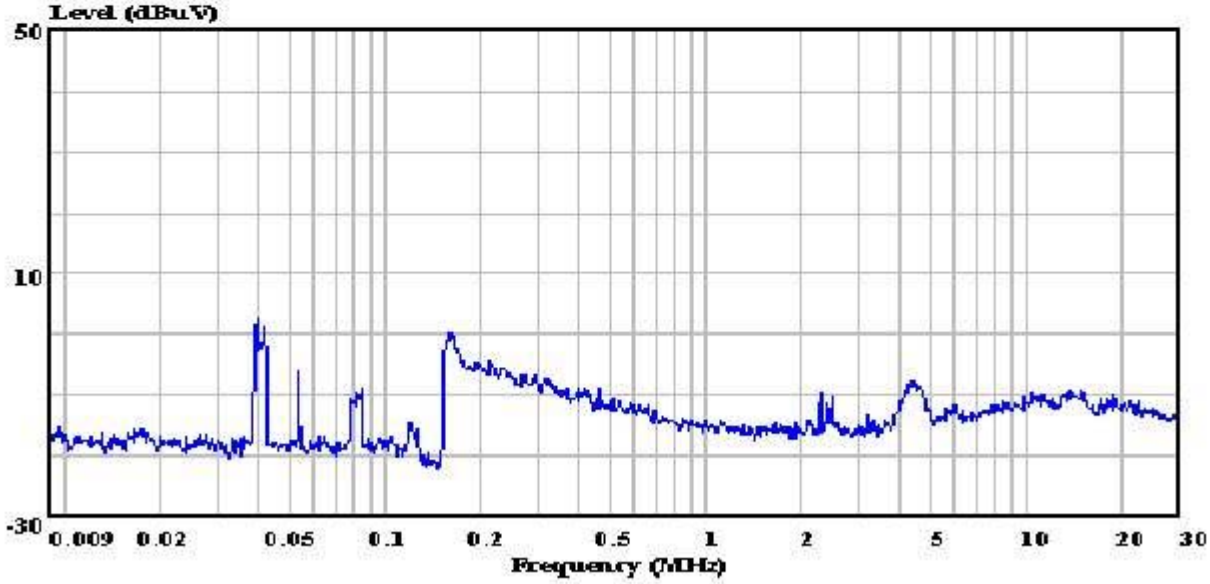

Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-18W
S/N : E02091609
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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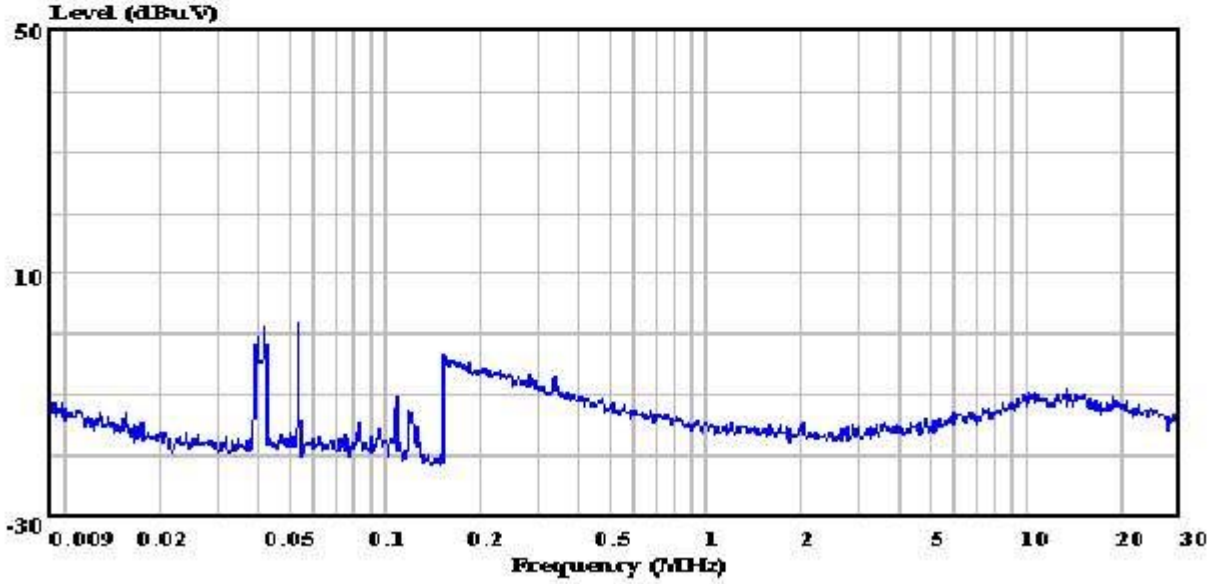
Data#: 117 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-09-19 Time: 12:12:14



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-18W
S/N : E02091609
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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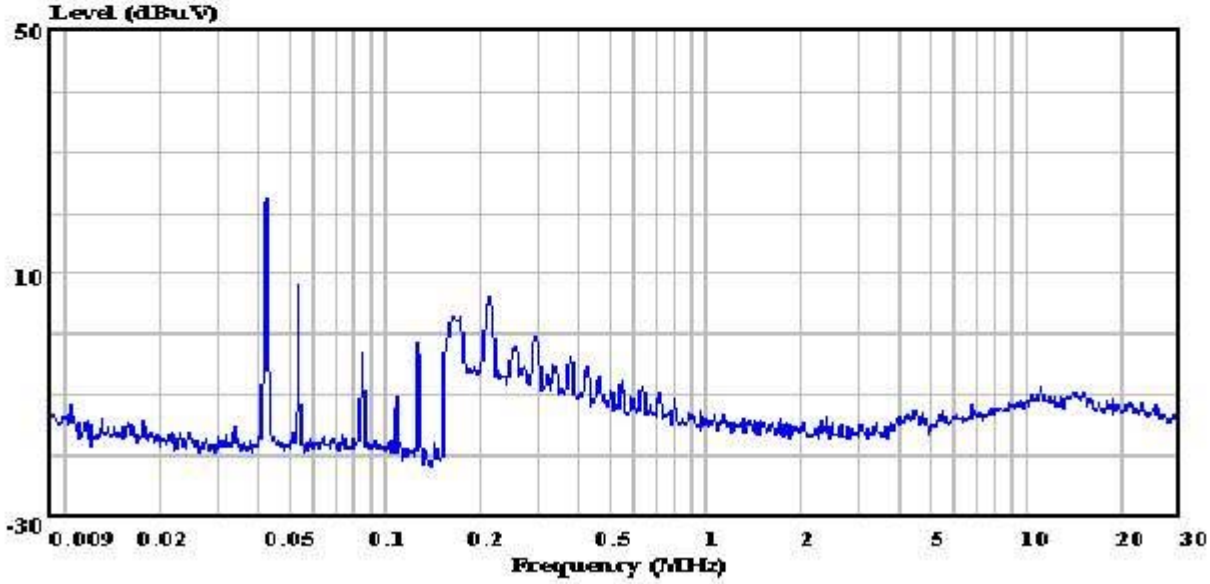
Data#: 126 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-19 Time: 12:25:14



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-20W
S/N : E02091610
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

Audix Technology (Shanghai) Co., Ltd.
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Fax:+86-21-64955491
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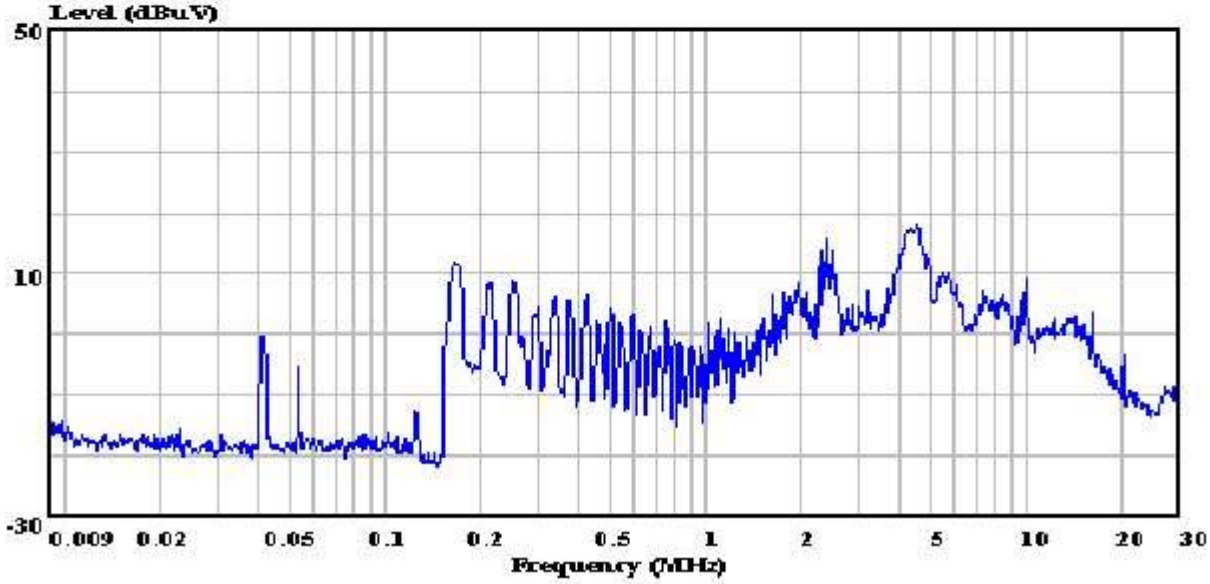
Data#: 136 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-19 Time: 12:43:16



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-20W
S/N : E02091610
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

Audix Technology (Shanghai) Co., Ltd.
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Tel:+86-21-64955500
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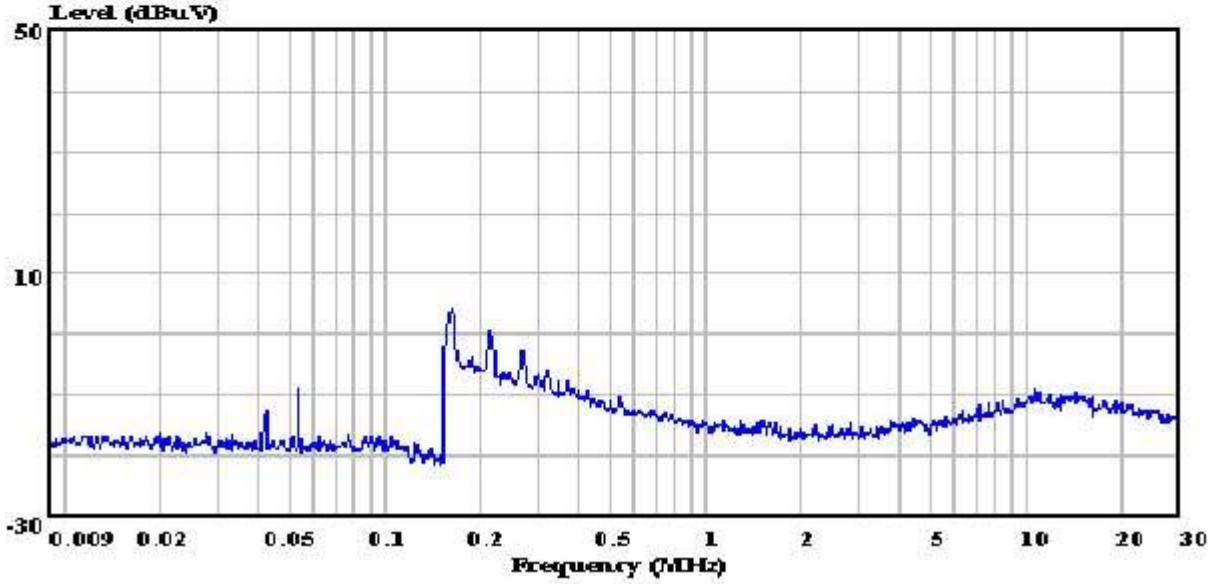
aciemc@audix.com

Data#: 130 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-19 Time: 12:32:16



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-20W
S/N : E02091610
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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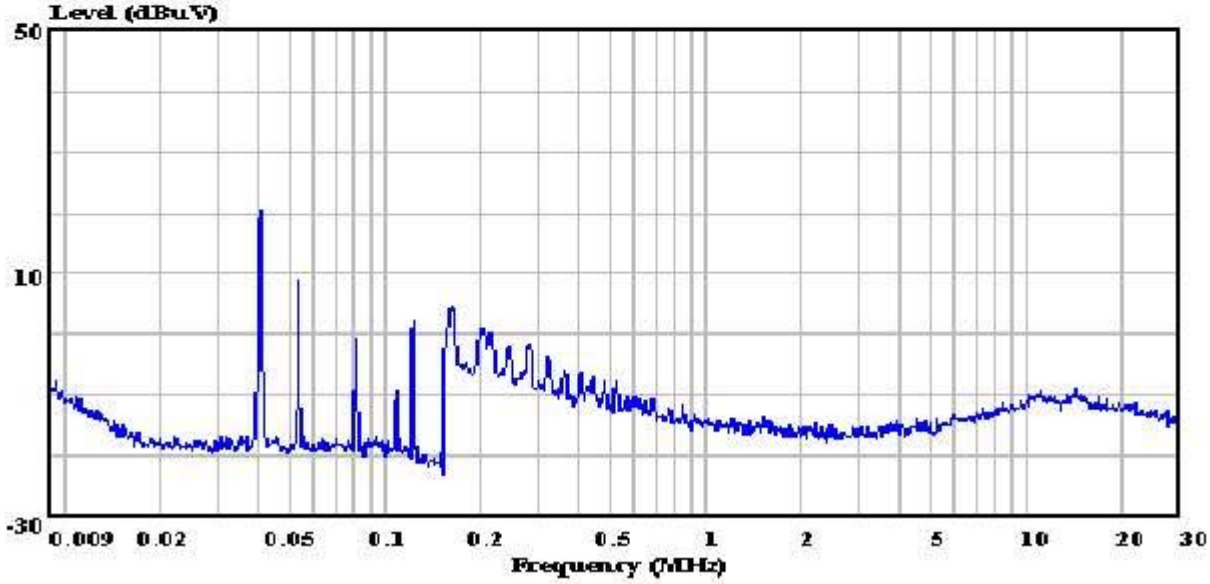
aciemc@audix.com

Data#: 139 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-19 Time: 16:17:11



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-23W
S/N : E02091611
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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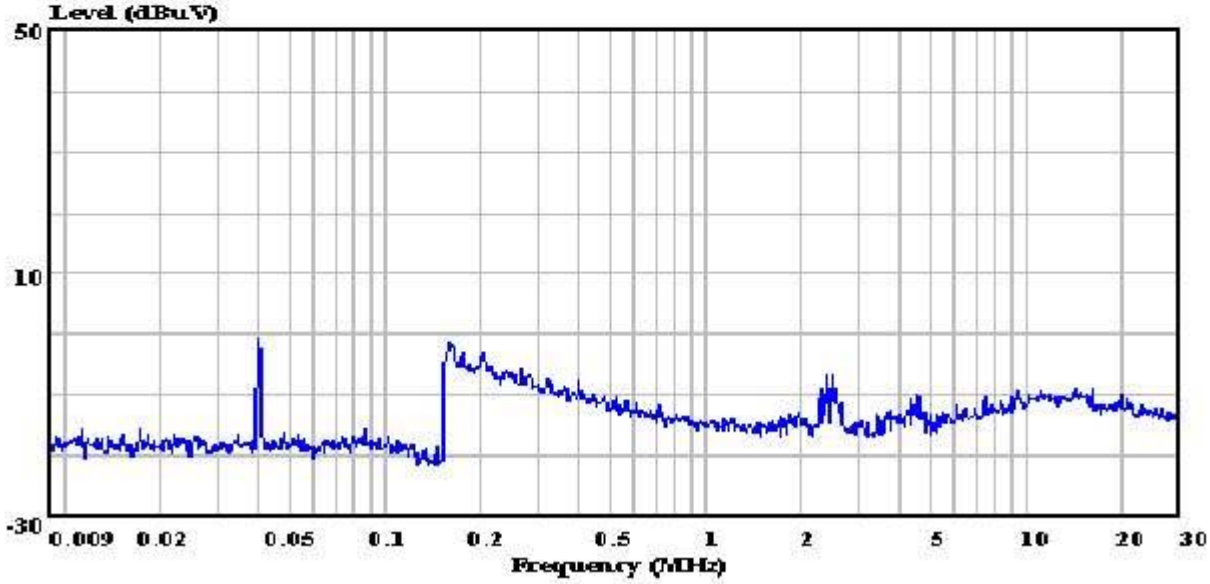
aciemc@audix.com

Data#: 142 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-09-19 Time: 16:21:05



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-23W
S/N : E02091611
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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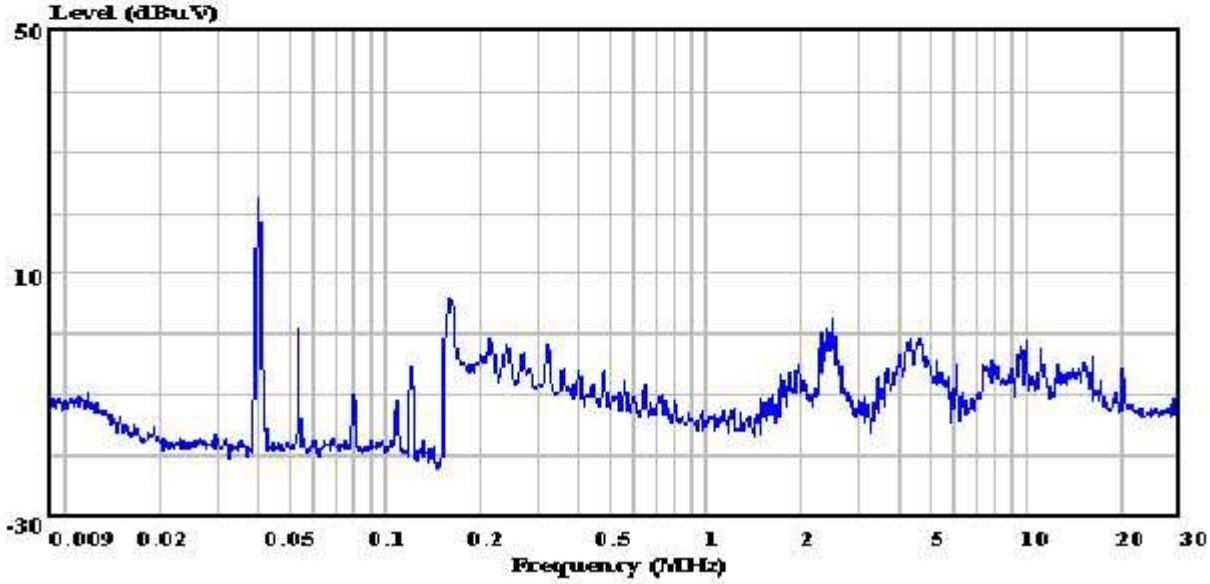
Data#: 145 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-19 Time: 16:24:39



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-23W
S/N : E02091611
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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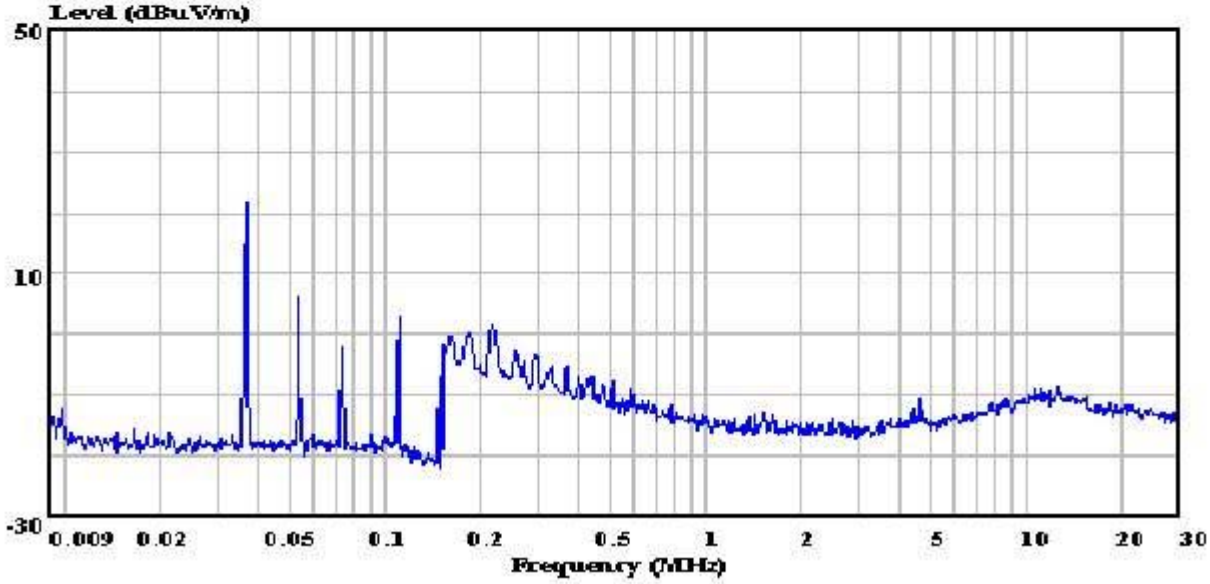
Data#: 162 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-10-25 Time: 09:28:33



Site : Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-25W
S/N : E02091612
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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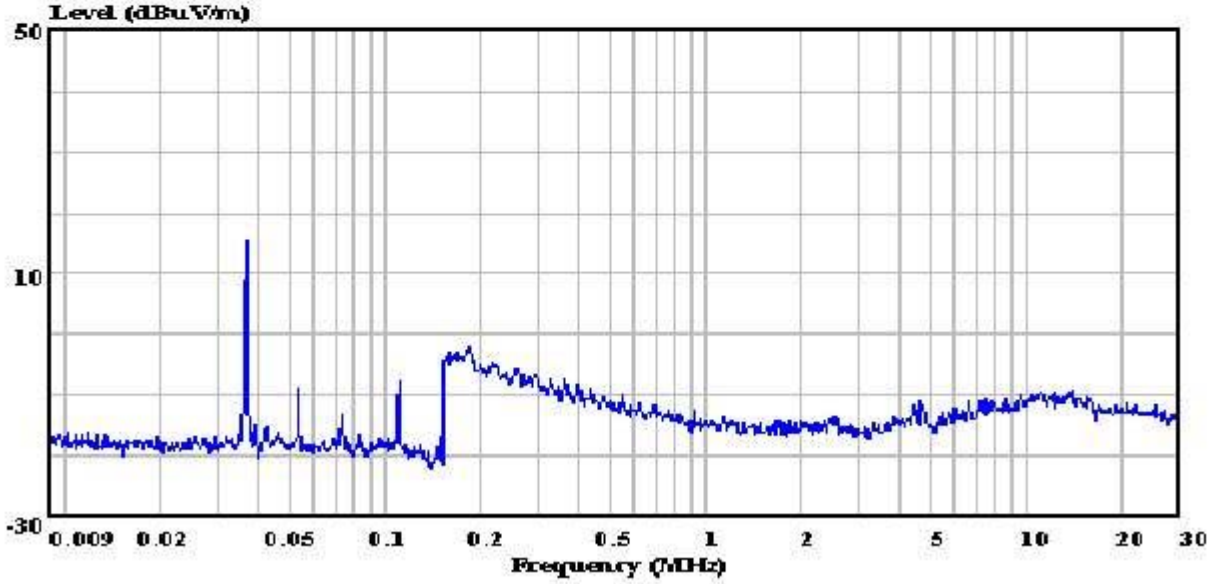
Data#: 159 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-10-25 Time: 09:24:56



Site : Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLQ-25W
S/N : E02091612
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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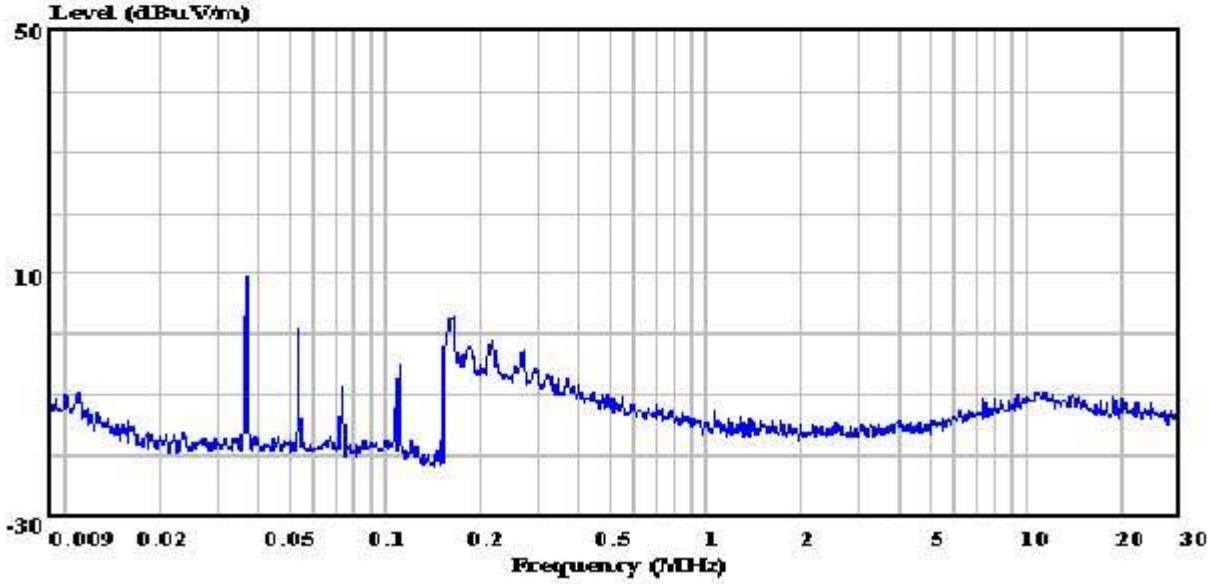
Data#: 156 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-10-25 Time: 09:21:29



Site	:	Conducted Emission
Condition	:	
Project No.	:	AOE-000271
Applicant	:	Shanghai Junsun Lighting Co.,Ltd
EUT	:	Energy Saving Lamp
M/N	:	JLQ-25W
S/N	:	E02091612
Power Supply	:	120V/60Hz
Ambient	:	23'C 56%RH
Test line	:	C
Test Mode	:	ON
Test Engineer:		Cotton Ye

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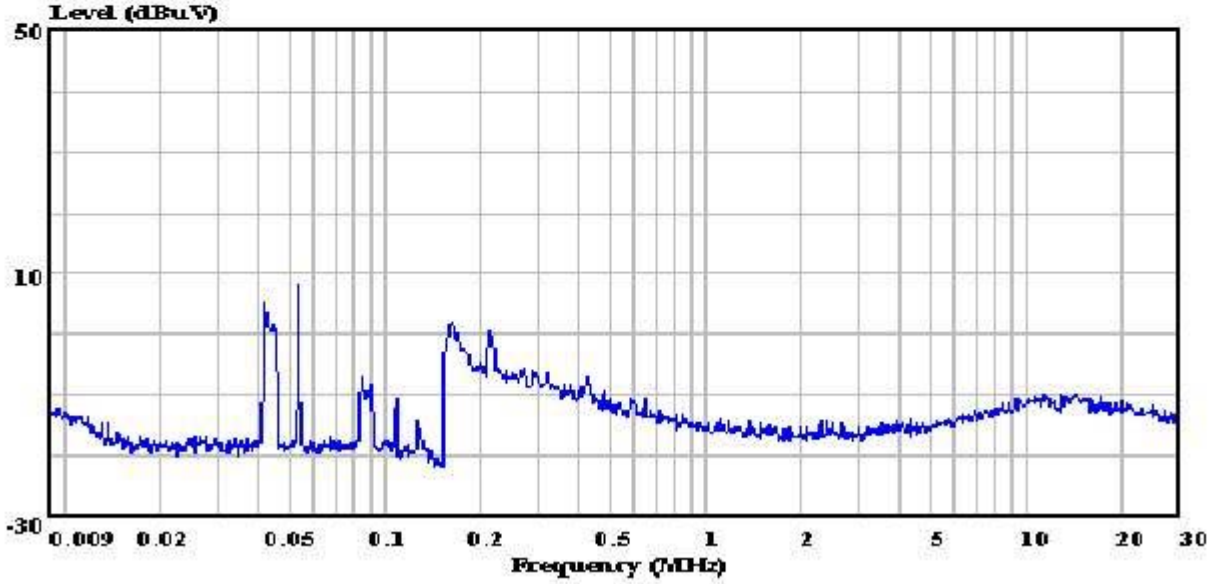
Data#: 71 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-09-18 Time: 19:59:44



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-18W
S/N : E02091605
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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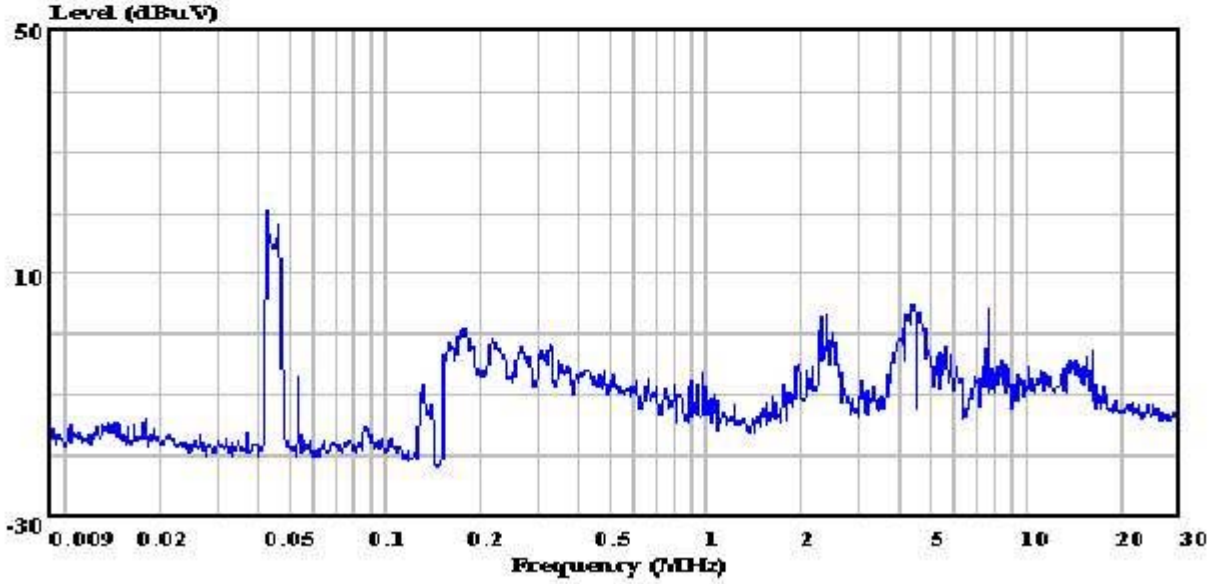
Data#: 68 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-18 Time: 19:55:40



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-18W
S/N : E02091605
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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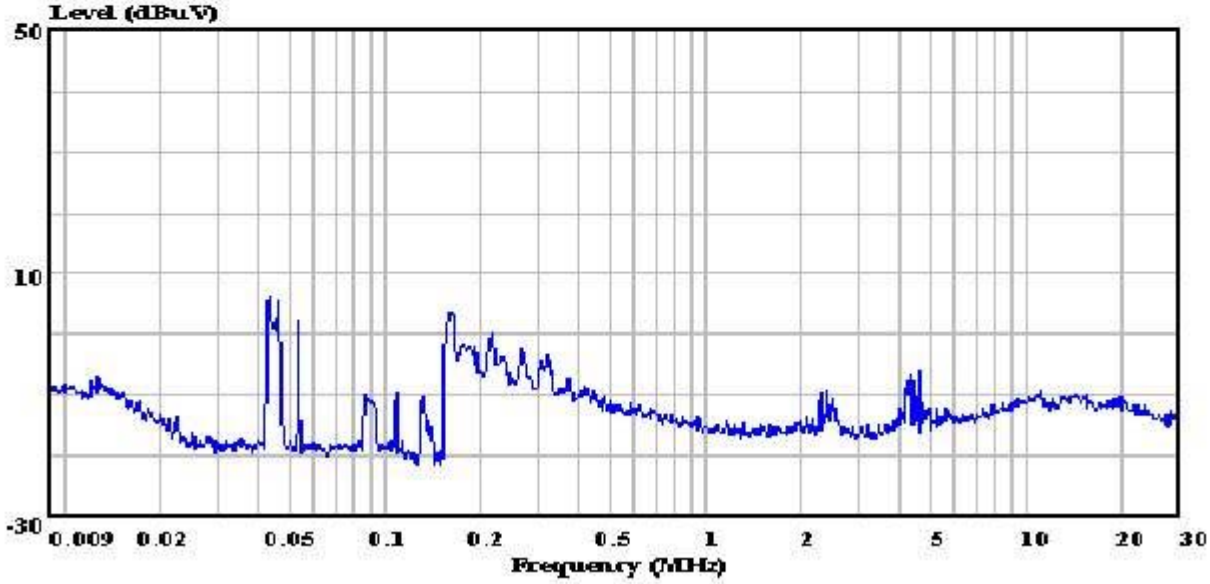
Data#: 65 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-18 Time: 19:51:04



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-18W
S/N : E02091605
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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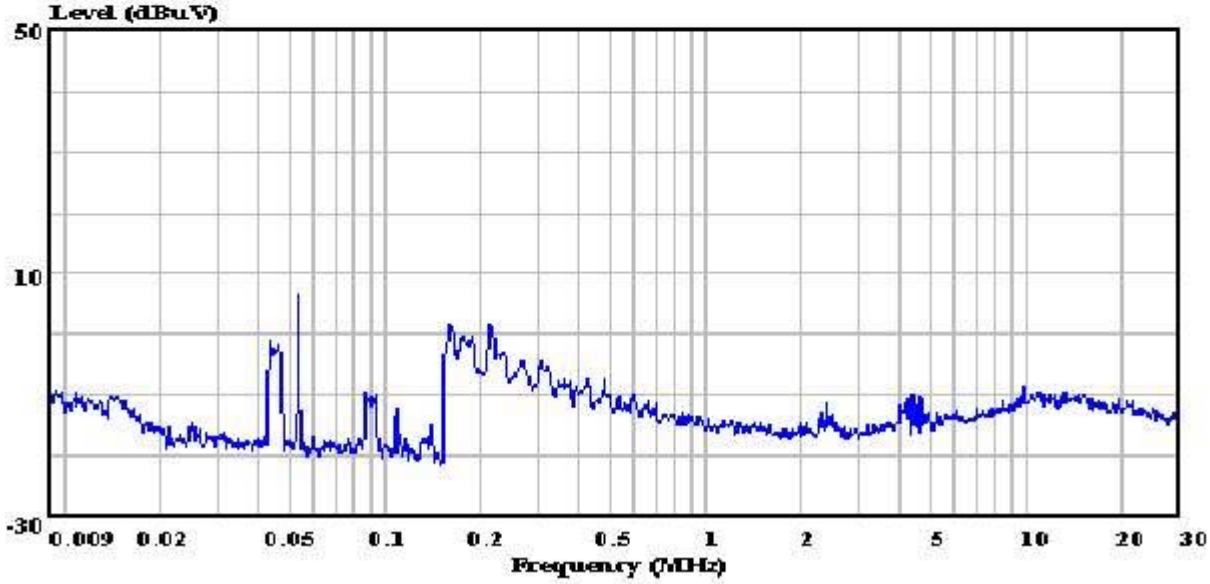
aciemc@audix.com

Data#: 74 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-18 Time: 20:09:46



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-20W
S/N : E02091606
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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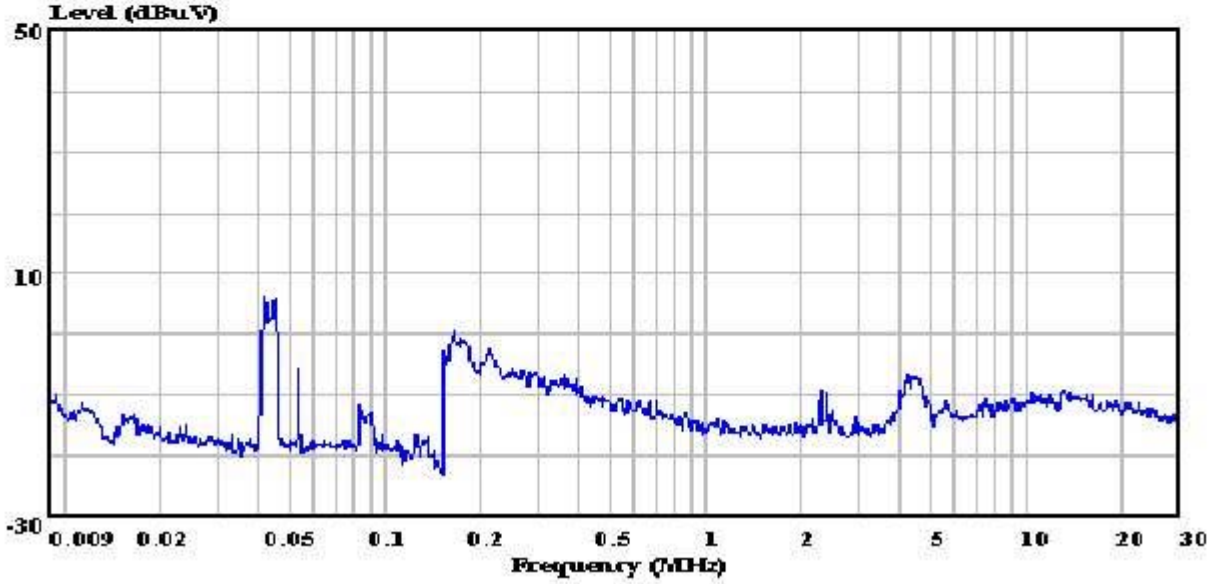
Data#: 77 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-09-18 Time: 20:16:06



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-20W
S/N : E02091606
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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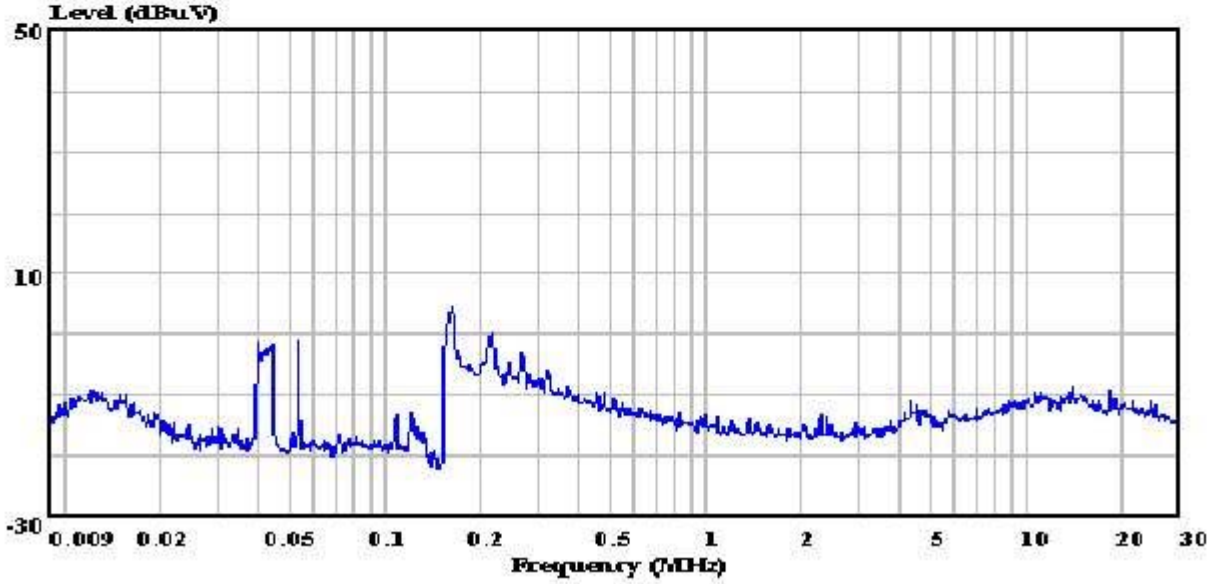
aciemc@audix.com

Data#: 80 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-09-18 Time: 20:25:14



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-20W
S/N : E02091606
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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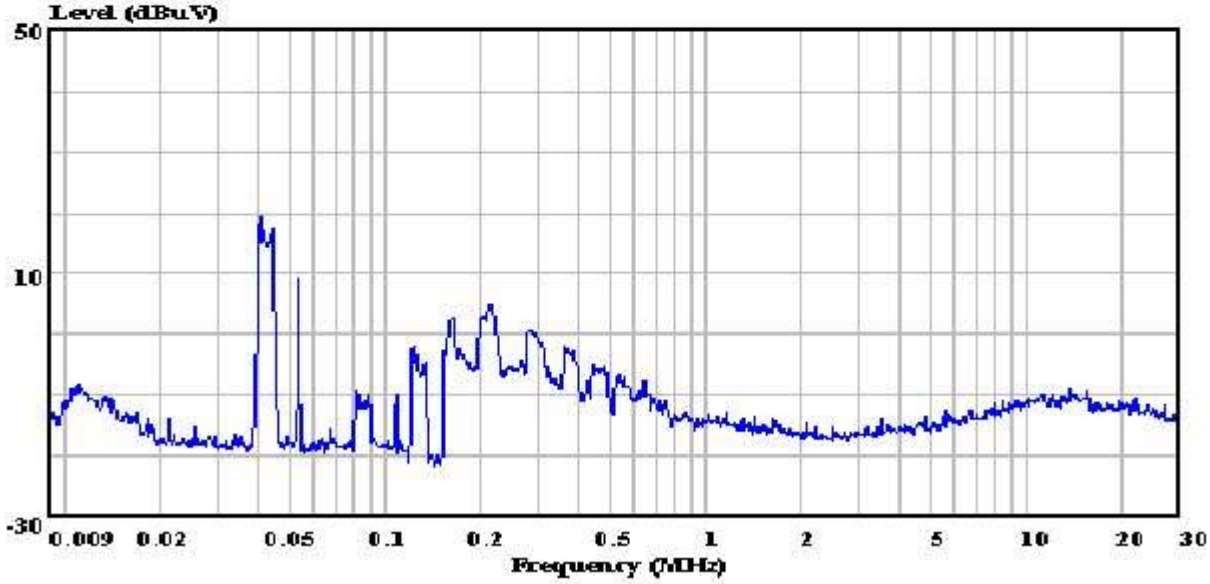
Data#: 97 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-19 Time: 09:33:38



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-23W
S/N : E02091607
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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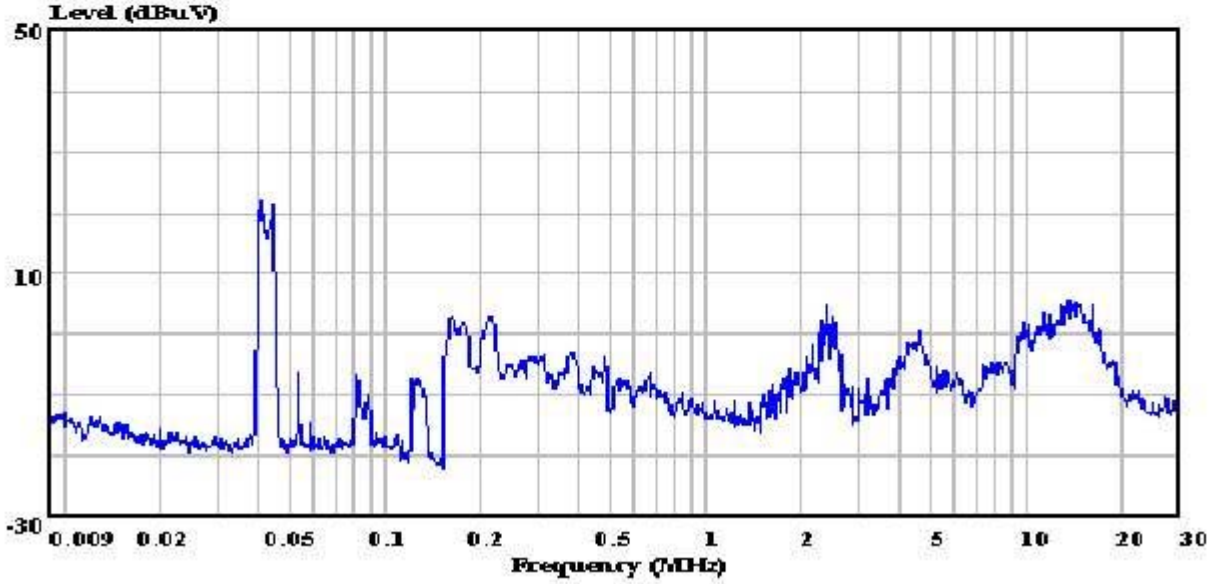
Data#: 94 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-09-19 Time: 09:30:49



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-23W
S/N : E02091607
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

Audix Technology (Shanghai) Co., Ltd.
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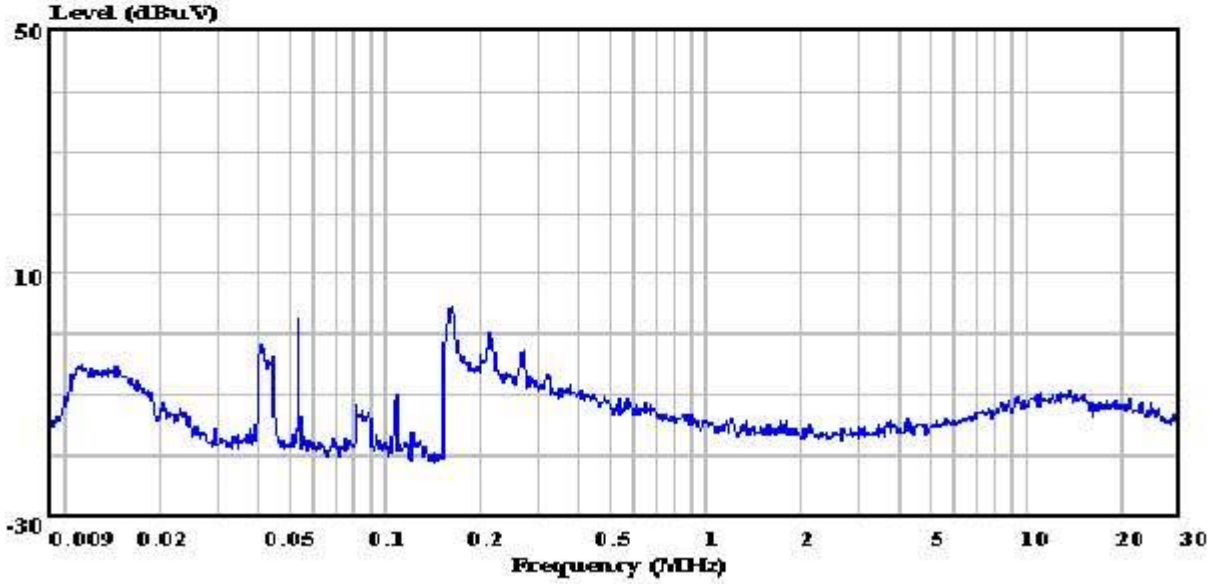
Data#: 91 File#: C:\emivm\TEST\Z\誠贏.EMI Date: 2002-09-19 Time: 09:28:02



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-23W
S/N : E02091607
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye

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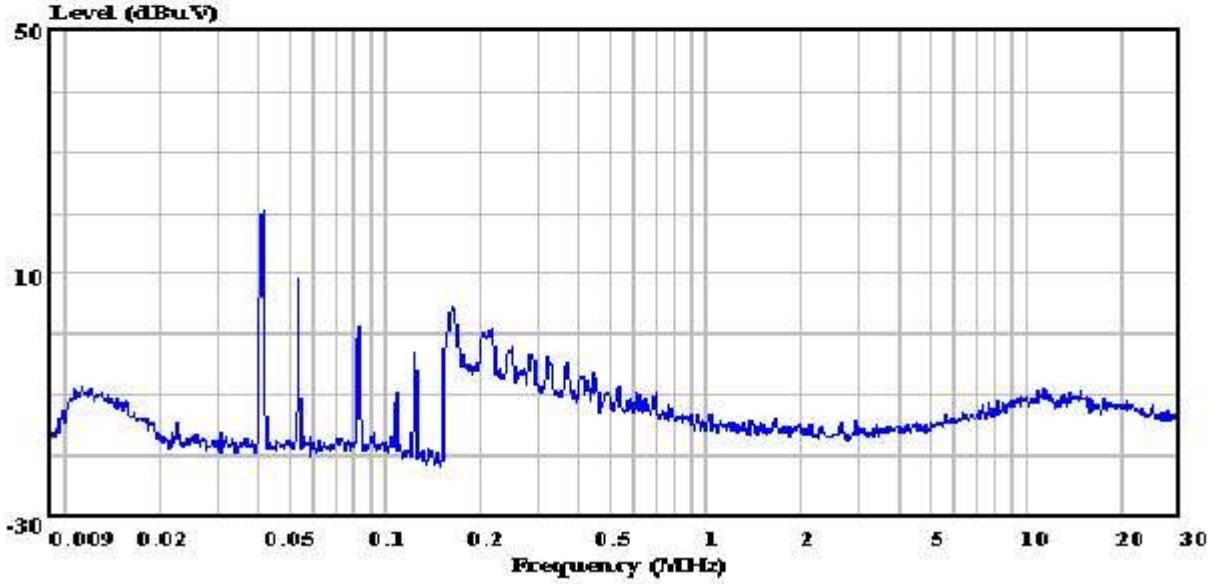
Data#: 100 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-19 Time: 09:41:29



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-25W
S/N : E02091608
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : ON
Test Engineer: Cotton Ye

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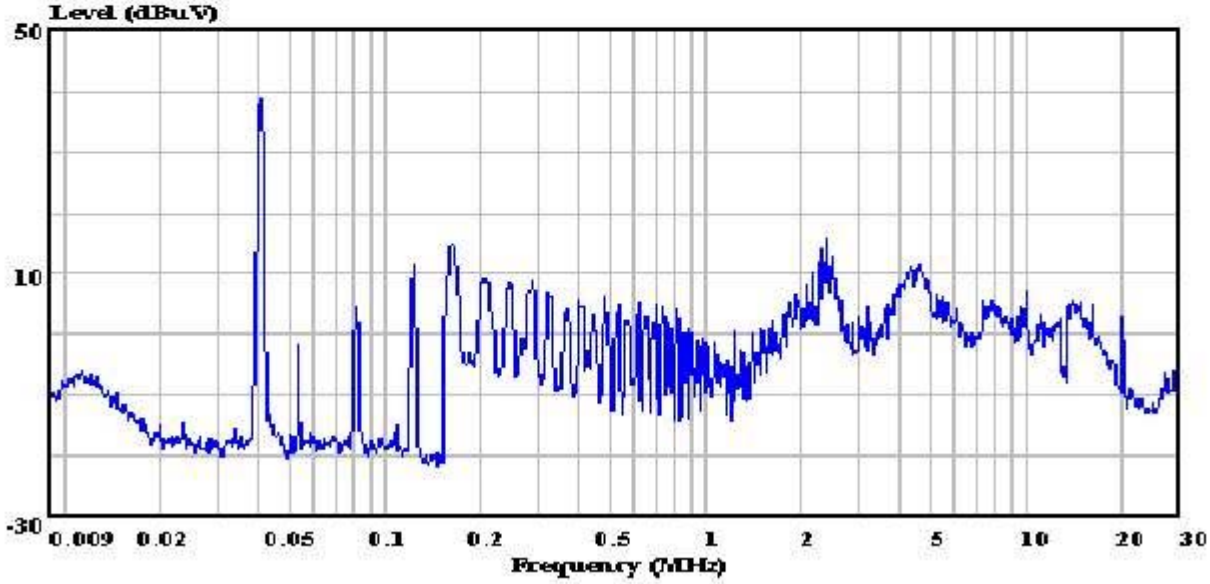
aciemc@audix.com

Data#: 103 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-19 Time: 09:44:29



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-25W
S/N : E02091608
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : ON
Test Engineer: Cotton Ye

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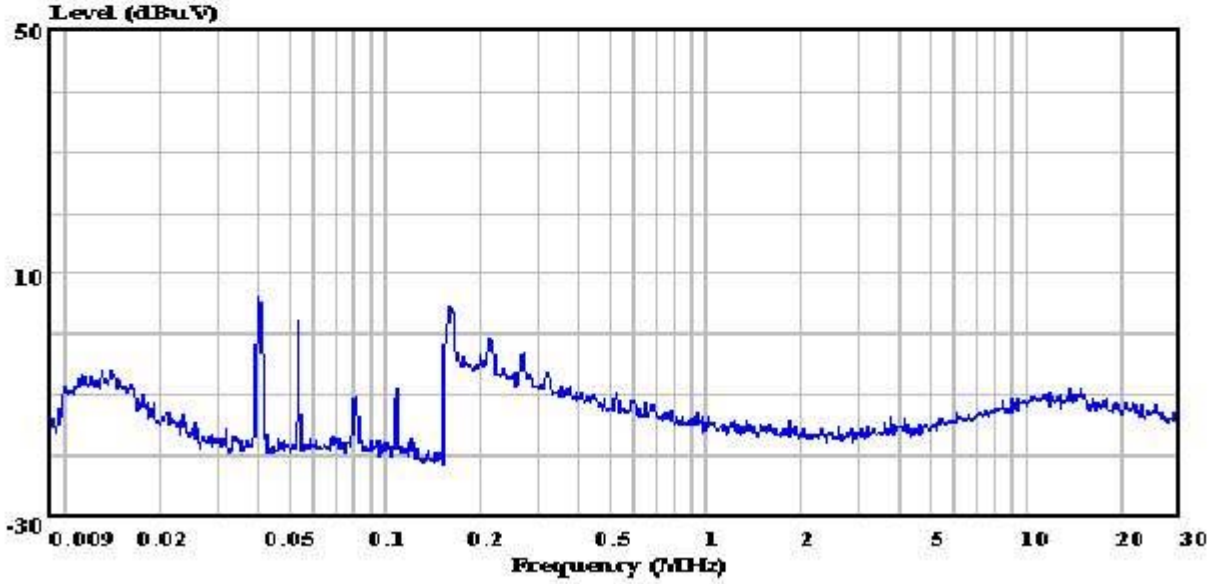
Data#: 106 File#: C:\emivm\TEST\Z\鼓赢.EMI Date: 2002-09-19 Time: 09:47:48



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000271
Applicant : Shanghai Junsun Lighting Co.,Ltd
EUT : Energy Saving Lamp
M/N : JLR-25W
S/N : E02091608
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : C
Test Mode : ON
Test Engineer: Cotton Ye