

Application for FCC Certificate
On Behalf of
ZheJiang YanKon Group Co., LTD

Energy Saving Lamp

Model No.:	FE26 5W	FE26 7W	FE26 9W
	FE26 11W	FE26 13W	FE26 15W
	FE84-S 5W	FE84-S 7W	FE84-S 9W
	FE84-S 11W	FE84-S 13W	FE84-S 15W
	FE84 5W	FE84 7W	FE84 9W
	FE84 11W	FE84 13W	FE84 15W
	FE101 5W	FE101 7W	FE101 9W
	FE101 11W	FE101 13W	FE101 15W

FCC ID : MM20109

Prepared For : ZheJiang YanKon Group Co., LTD
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Report No. : ACI-F01068
Date of Test : Aug. 31- Sept. 4, 2001
Date of Report : Sept. 13, 2001

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TEST REPORT FOR FCC CERTIFICATE

Applicant : ZheJiang YanKon Group Co., LTD
 Manufacturer : ZheJiang YanKon Group Co., LTD
 EUT Description : Energy Saving Lamp

(A) Model No.:

FE26 5W	FE26 7W	FE26 9W	FE26 11W	FE26 13W	FE26 15W
FE84-S 5W	FE84-S 7W	FE84-S 9W	FE84-S 11W	FE84-S 13W	FE84-S 15W
FE84 5W	FE84 7W	FE84 9W	FE84 11W	FE84 13W	FE84 15W
FE101 5W	FE101 7W	FE101 9W	FE101 11W	FE101 13W	FE101 15W

(B) Serial No.:

E083104	N/A	N/A	E083105	N/A	E083106
E083101	N/A	N/A	E083102	N/A	E083103
E090401	N/A	N/A	E090402	N/A	E090403
E090404	N/A	N/A	E090405	N/A	E090406

(C) Power Supply: 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 18 CONSUMER DEVICES (1998)
 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 for conducted emissions.

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 : Aug 31- Sept 4, 2001

Prepared by :

Yulisa Wang
 YULISA WANG
 (Assistant)

Test Engineer :

Solon Gong
 SOLON GONG
 (Engineer)
 For and on behalf of
 AUDIX TECHNOLOGY (SHANGHAI) CO., LTD.

Reviewer :

Byron Kwo
 BYRON KWO
 (Supervisor)

Approved Signatory:

Alex Chiu
 ALEX CHIU
 Authorized Assistant Manager

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description : Energy Saving Lamp

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

Model Number : FE26 5W FE26 7W FE26 9W
FE26 11W FE26 13W FE26 15W
FE84-S 5W FE84-S 7W FE84-S 9W
FE84-S 11W FE84-S 13W FE84-S 15W
FE84 5W FE84 7W FE84 9W
FE84 11W FE84 13W FE84 15W
FE101 5W FE101 7W FE101 9W
FE101 11W FE101 13W FE101 15W
(All models are tested, only every 5W, 11W and
15W in all series are to be reported.)

Applicant : ZheJiang YanKon Group Co., LTD

No. 129 FengShan Road ShangYu City, ZheJiang China

Manufacturer : ZheJiang YanKon Group Co., LTD

No. 129 FengShan Road ShangYu City, ZheJiang China

M/N	REAL POWER (W)	APPARENT POWER (VA)
FE26 5W	4.7	10.9
FE26 7W	7.1	14.6
FE26 9W	8.2	16.2
FE26 11W	10.3	19.2
FE26 13W	11.9	21.5
FE26 15W	14.5	25.3
FE84-S 5W	5.5	11.9
FE84-S 7W	7.1	14.4
FE84-S 9W	9.4	17.9
FE84-S 11W	10.5	19.6
FE84-S 13W	12.4	21.8
FE84-S 15W	14.1	24.6
FE84 5W	5.2	11.2
FE84 7W	6.6	13.2
FE84 9W	8.7	16.3
FE84 11W	11.8	19.4
FE84 13W	12.1	21.3
FE84 15W	13.9	23.5
FE101 5W	5.3	11.3
FE101 7W	6.6	13.3
FE101 9W	9.8	17.9
FE101 11W	10.8	19.3
FE101 13W	11.7	20.7
FE101 15W	14.5	24.7

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	:	3 F 34 Bldg 680 Guiping Rd Caohejing Hi-Tech Park, Shanghai, China 200233
NVLAP Lab Code	:	200371-0

1.3 Measurement Uncertainty

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

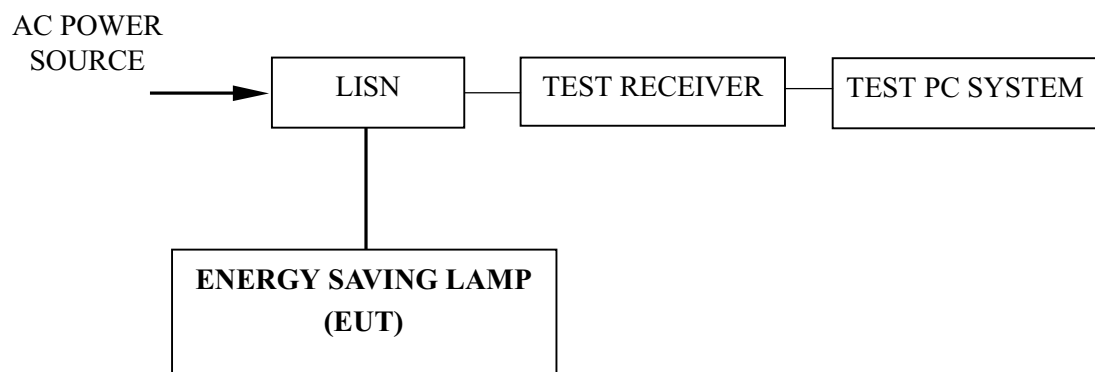
2 AC POWERLINE CONDUCTED EMISSION TEST

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



— : SIGNAL LINE
 — : POWER LINE

2.3 Conducted Emission Limits

Frequency (MHz)	Maximum RF Line Voltage	
	(μ V)	dB(μ V)
0.45 ~ 2.51	250	48
2.51 ~ 3	3000	70
3 ~ 30	250	48
NOTE 1 – RF Line Voltage dB(μ V) = 20 log RF Line Voltage (μ V)		

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 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.

2.6 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 : Energy Saving Lamp Temperature : 23°C

Model No. : FE26 5W Humidity : 53%

Test Mode : ON Date of Test : Sept. 02, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.469	0.32	27.81	28.13	48.00	19.87
	0.510	0.31	25.97	26.28	48.00	21.72
	0.548	0.30	25.39	25.69	48.00	22.31
	0.622	0.30	24.56	24.86	48.00	23.14
	0.708	0.29	23.99	24.28	48.00	23.72
	0.803	0.28	24.60	24.88	48.00	23.12
VB	0.471	0.32	26.07	26.39	48.00	21.61
	0.553	0.30	23.91	24.21	48.00	23.79
	0.665	0.29	25.38	25.67	48.00	22.33
	0.754	0.29	25.41	25.70	48.00	22.30
	0.831	0.28	23.86	24.14	48.00	23.86
	0.942	0.27	21.68	21.95	48.00	26.05

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 0.469 MHz with corrected signal level of 28.13 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE26 11W Humidity : 53%

Test Mode : ON Date of Test : Sept. 02, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.450	0.33	36.52	36.85	48.00	11.15
	0.665	0.29	36.72	37.01	48.00	10.99
	0.761	0.29	35.68	35.97	48.00	12.03
	0.863	0.28	32.37	32.65	48.00	15.35
	0.942	0.27	30.09	30.36	48.00	17.64
	1.096	0.27	29.08	29.35	48.00	18.65
VB	0.489	0.31	33.16	33.47	48.00	14.53
	0.594	0.30	34.01	34.31	48.00	13.69
	0.685	0.29	33.33	33.62	48.00	14.38
	0.783	0.28	32.96	33.24	48.00	14.76
	0.885	0.28	29.78	30.06	48.00	17.94
	0.983	0.27	29.49	29.76	48.00	18.24
<p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.665 MHz with corrected signal level of 37.01 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.</p>						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE26 15W Humidity : 53%

Test Mode : ON Date of Test : Sept.02, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μ V)	Emission Level dB(μ V)	Limits dB(μ V)	Margin (dB)
VA	0.498	0.31	39.48	39.79	48.00	8.21
	0.579	0.30	37.81	38.11	48.00	9.89
	0.673	0.29	36.82	37.11	48.00	10.89
	0.723	0.29	36.61	36.90	48.00	11.10
	0.797	0.28	34.88	35.16	48.00	12.84
	0.900	0.28	33.89	34.17	48.00	13.83
VB	0.498	0.31	39.42	39.73	48.00	8.27
	0.574	0.30	37.61	37.91	48.00	10.09
	0.683	0.30	37.16	37.46	48.00	10.54
	0.708	0.29	34.67	34.96	48.00	13.04
	0.817	0.28	33.24	33.52	48.00	14.48
	0.863	0.28	33.17	33.45	48.00	14.55
<p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.498 MHz with corrected signal level of 39.79 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.</p>						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE84-S 5W Humidity : 53%

Test Mode : ON Date of Test : Aug. 31, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.460	0.06	26.00	26.06	48.00	21.94
	0.557	0.05	25.80	25.85	48.00	22.15
	0.696	0.03	22.30	22.33	48.00	25.67
	0.797	0.04	20.60	20.64	48.00	27.36
	1.050	0.05	21.60	21.65	48.00	26.35
	1.240	0.05	24.06	24.11	48.00	23.89
VB	0.463	0.09	26.40	26.49	48.00	21.51
	0.510	0.09	25.40	25.49	48.00	22.51
	0.544	0.09	25.30	25.39	48.00	22.61
	0.632	0.08	26.30	26.38	48.00	21.62
	0.665	0.08	15.70	15.78	48.00	32.22
	0.742	0.08	23.80	23.88	48.00	24.12

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 0.463 MHz with corrected signal level of 26.49 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE84-S 11W Humidity : 53%

Test Mode : ON Date of Test : Sept. 01, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.461	0.33	33.79	34.12	48.00	13.88
	0.506	0.31	32.52	32.83	48.00	15.17
	0.539	0.31	30.85	31.16	48.00	16.84
	0.594	0.30	31.43	31.73	48.00	16.27
	0.638	0.30	33.10	33.40	48.00	14.60
	0.748	0.29	31.63	31.92	48.00	16.08
VB	0.450	0.33	30.39	30.72	48.00	17.28
	0.498	0.31	31.18	31.49	48.00	16.51
	0.539	0.31	29.88	30.19	48.00	17.81
	0.604	0.30	29.49	29.79	48.00	18.21
	0.632	0.30	28.03	28.33	48.00	19.67
	0.691	0.29	28.46	28.75	48.00	19.25
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 0.461 MHz with corrected signal level of 34.12 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE84-S 15W Humidity : 53%

Test Mode : ON Date of Test : Sept. 02, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.483	0.32	33.20	33.52	48.00	14.48
	0.569	0.30	34.33	34.63	48.00	13.37
	0.594	0.30	34.03	34.33	48.00	13.67
	0.654	0.29	31.04	31.33	48.00	16.67
	0.767	0.28	32.02	32.30	48.00	15.70
	0.831	0.28	32.68	32.96	48.00	15.04
VB	0.498	0.31	34.54	34.85	48.00	13.15
	0.539	0.31	34.27	34.58	48.00	13.42
	0.632	0.30	33.50	33.80	48.00	14.20
	0.673	0.29	33.22	33.51	48.00	14.49
	0.777	0.28	32.32	32.60	48.00	15.40
	0.841	0.28	31.75	32.03	48.00	15.97
<p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.498 MHz with corrected signal level of 34.85 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.</p>						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE84 5W Humidity : 53%

Test Mode : ON Date of Test : Sept. 04, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.498	0.31	29.27	29.58	48.00	18.42
	0.539	0.31	25.33	25.64	48.00	22.36
	0.601	0.30	24.71	25.01	48.00	22.99
	0.665	0.29	24.26	24.55	48.00	23.45
	0.736	0.29	23.64	23.93	48.00	24.07
	0.790	0.28	23.31	23.59	48.00	24.41
VB	0.494	0.31	27.11	27.42	48.00	20.58
	0.562	0.30	27.02	27.32	48.00	20.68
	0.665	0.29	24.90	25.19	48.00	22.81
	0.783	0.28	24.22	24.50	48.00	23.50
	1.047	0.27	24.53	24.80	48.00	23.20
	1.167	0.26	23.38	23.64	48.00	24.36
<p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.498 MHz with corrected signal level of 29.58 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.</p>						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE84 11W Humidity : 53%

Test Mode : ON Date of Test : Sept. 04, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.519	0.31	36.50	36.81	48.00	11.19
	0.548	0.30	34.91	35.21	48.00	12.79
	0.659	0.29	32.31	32.60	48.00	15.40
	0.714	0.29	33.81	34.10	48.00	13.90
	0.900	0.28	31.60	31.88	48.00	16.12
	1.069	0.27	29.17	29.44	48.00	18.56
VB	0.498	0.31	35.34	35.65	48.00	12.35
	0.604	0.30	34.45	34.75	48.00	13.25
	0.673	0.29	32.21	32.50	48.00	15.50
	0.777	0.28	31.30	31.58	48.00	16.42
	0.831	0.28	30.17	30.45	48.00	17.55
	0.958	0.27	28.29	28.56	48.00	19.44
<p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.519 MHz with corrected signal level of 36.81 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.</p>						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE84 15W Humidity : 53%

Test Mode : ON Date of Test : Sept. 04, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.450	0.33	40.73	41.06	48.00	6.94
	0.494	0.31	32.19	32.50	48.00	15.50
	0.548	0.30	37.27	37.57	48.00	10.43
	0.599	0.30	30.63	30.93	48.00	17.07
	0.632	0.30	32.98	33.28	48.00	14.72
	0.754	0.29	29.52	29.81	48.00	18.19
VB	0.450	0.33	41.26	41.59	48.00	6.41
	0.539	0.31	38.31	38.62	48.00	9.38
	0.638	0.30	34.78	35.08	48.00	12.92
	0.736	0.29	30.57	30.86	48.00	17.14
	0.919	0.27	26.89	27.16	48.00	20.84
	1.129	0.26	24.41	24.67	48.00	23.33
<p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.450 MHz with corrected signal level of 41.59 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.</p>						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE101 5W Humidity : 53%

Test Mode : ON Date of Test : Sept. 04, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.467	0.32	28.90	29.22	48.00	18.78
	0.498	0.31	27.00	27.31	48.00	20.69
	0.553	0.30	26.04	26.34	48.00	21.66
	0.599	0.30	29.00	29.30	48.00	18.70
	0.691	0.29	27.23	27.52	48.00	20.48
	0.810	0.28	28.05	28.33	48.00	19.67
VB	0.487	0.31	29.38	29.69	48.00	18.31
	0.535	0.31	29.65	29.96	48.00	18.04
	0.599	0.30	27.12	27.42	48.00	20.58
	0.668	0.29	28.84	29.13	48.00	18.87
	0.754	0.29	28.28	28.57	48.00	19.43
	0.877	0.28	28.98	29.26	48.00	18.74
<p>NOTE 1 □ Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.535 MHz with corrected signal level of 29.96 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.</p>						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE101 11W Humidity : 53%

Test Mode : ON Date of Test : Sept. 04, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.452	0.33	34.59	34.92	48.00	13.08
	0.498	0.31	32.71	33.02	48.00	14.98
	0.557	0.30	36.45	36.75	48.00	11.25
	0.638	0.30	34.92	35.22	48.00	12.78
	0.748	0.29	36.64	36.93	48.00	11.07
	0.817	0.28	35.74	36.02	48.00	11.98
VB	0.452	0.33	35.51	35.84	48.00	12.16
	0.506	0.31	32.09	32.40	48.00	15.60
	0.557	0.30	34.46	34.76	48.00	13.24
	0.638	0.30	35.16	35.46	48.00	12.54
	0.754	0.29	35.07	35.36	48.00	12.64
	0.824	0.28	34.10	34.38	48.00	13.62
<p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.557 MHz with corrected signal level of 36.75 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.</p>						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE101 15W Humidity : 53%

Test Mode : ON Date of Test : Sept. 04, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.483	0.32	31.50	31.82	48.00	16.18
	0.574	0.30	32.02	32.32	48.00	15.68
	0.622	0.30	31.60	31.90	48.00	16.10
	0.679	0.29	32.85	33.14	48.00	14.86
	0.729	0.29	33.32	33.61	48.00	14.39
	0.877	0.28	32.02	32.30	48.00	15.70
VB	0.483	0.32	31.90	32.22	48.00	15.78
	0.535	0.31	30.62	30.93	48.00	17.07
	0.622	0.30	32.88	33.18	48.00	14.82
	0.736	0.29	32.14	32.43	48.00	15.57
	0.817	0.28	31.31	31.59	48.00	16.41
	0.877	0.28	30.51	30.79	48.00	17.21
<p>NOTE 1 – Emission Level = Meter Reading + Factor</p> <p>NOTE 2 – Factor = Insertion Loss + Cable Loss</p> <p>NOTE 3 – All reading are Quasi-Peak Values.</p> <p>NOTE 4 – The worst emission is detected at 0.729 MHz with corrected signal level of 33.61 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.</p>						

TEST ENGINEER: Solon Gong
(SOLON GONG)

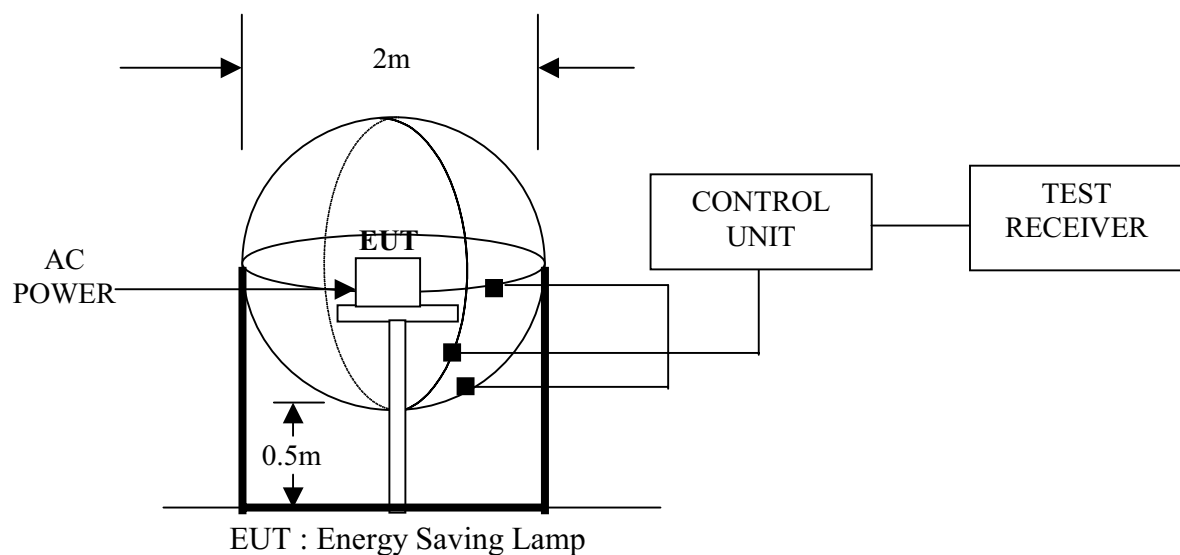
3 FIELD STRENGTH TEST

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	May 05, 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.

3.4 Operating Condition of EUT

Same as conducted Emission test which is listed in Sec. 2.5, except the test set up 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 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 frequency range from 9 kHz to 30 MHz was checked.

The “ON” mode was done on radiated electromagnetic emission test and all the test results are listed in Sec. 3.6.

3.6 Test Result

<PASS>

Refer to the following pages.

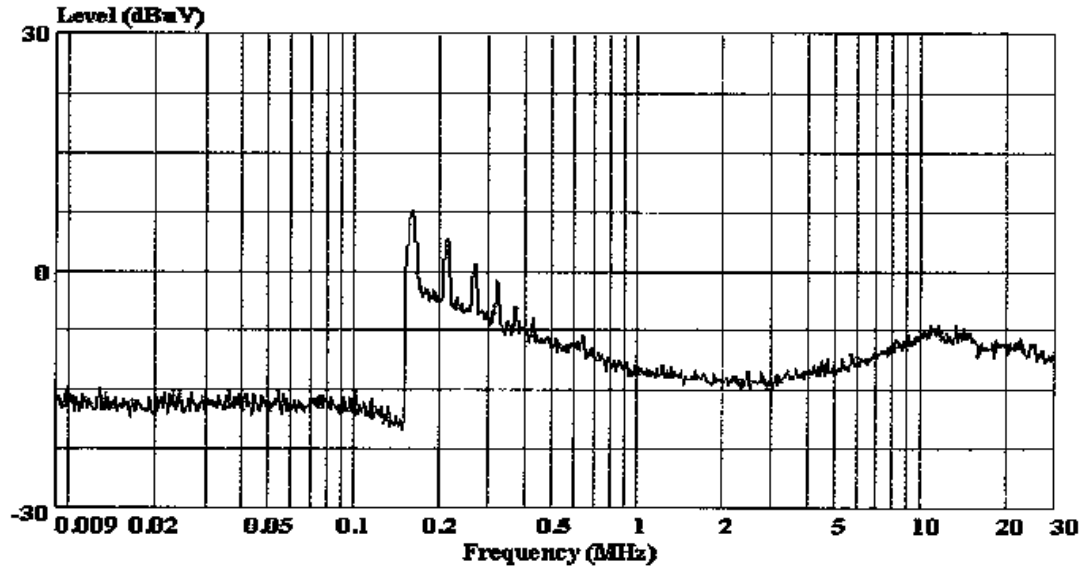
For FE26 5W:



3F #34Bldg. No.680 GuiPing Rd.,
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Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
audixaci@8848.net

Data#: 551 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:45:38



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE26 5W
S/N : E083104
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Solon*

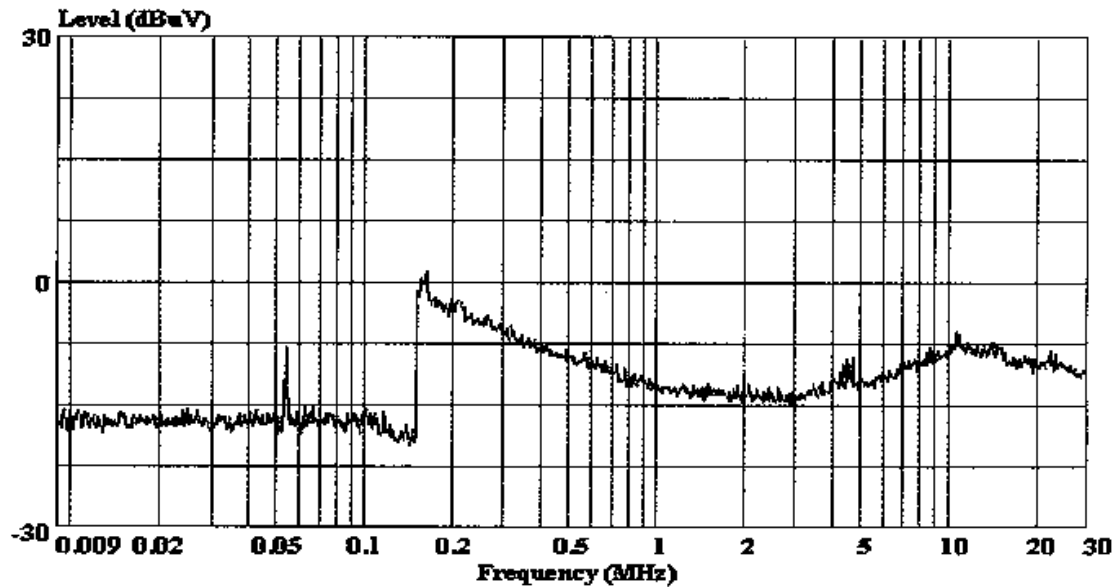


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Fax:+86-21-64955491
audixaci@8848.net

Data#: 548 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:42:27



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE26 5W
S/N : E083104
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solen*

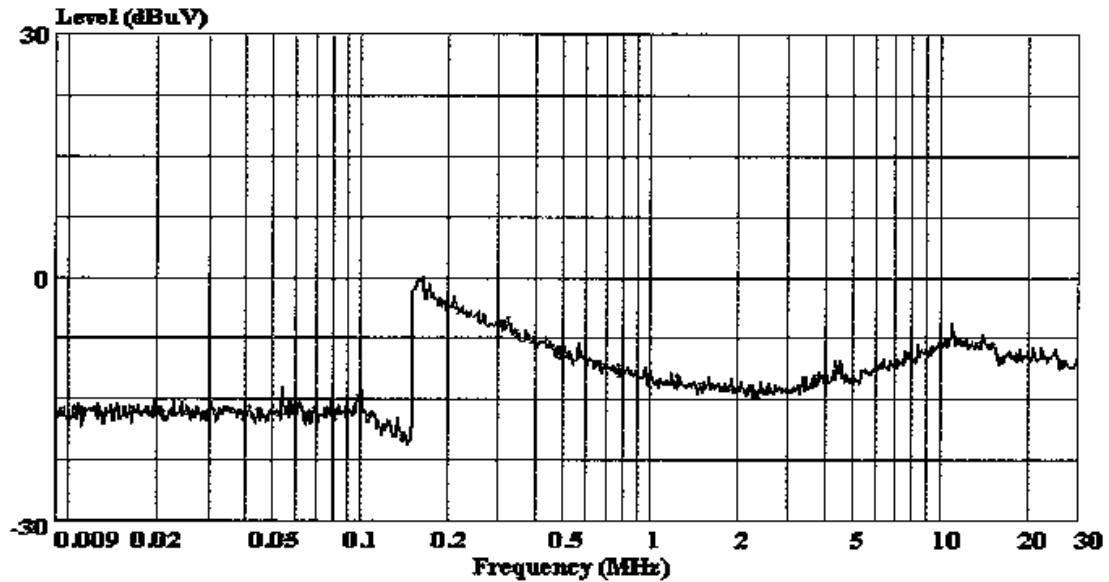


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audixaci@8848.net

Data#: 545 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:40:34



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE26 5W
S/N : E083104
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Solon*

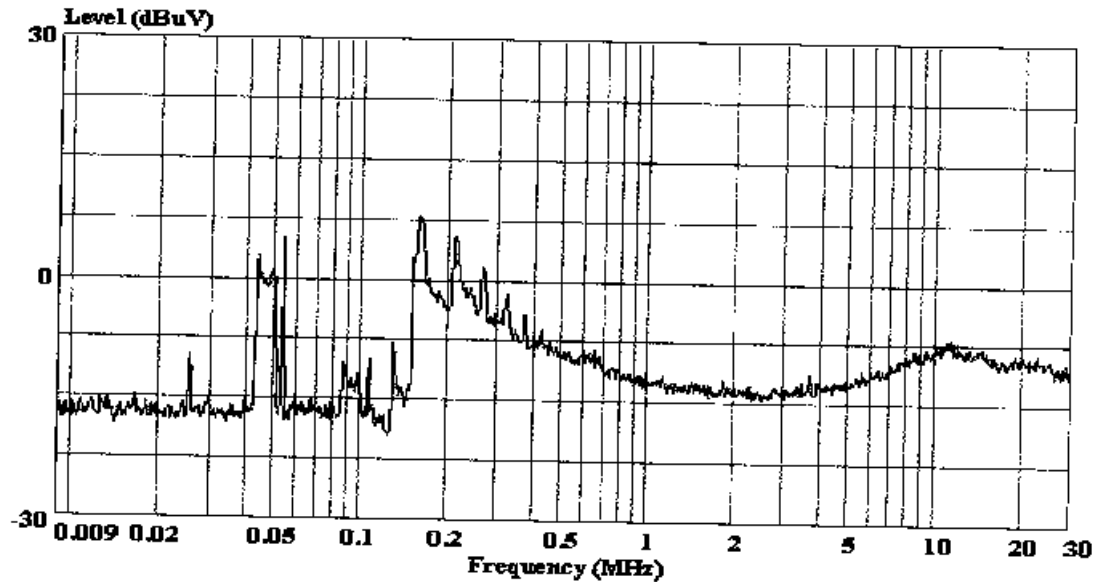
For FE26 11W:



3F #34Bldg. No.680 GuiPing Rd.,
CaoHeJing Hi-Tech Park,
Shanghai, China
Tel: +86-21-64955500
Fax: +86-21-64955491
audixaci@8848.net

Data#: 554 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:49:27



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE26 11W
S/N : E083105
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Solom*

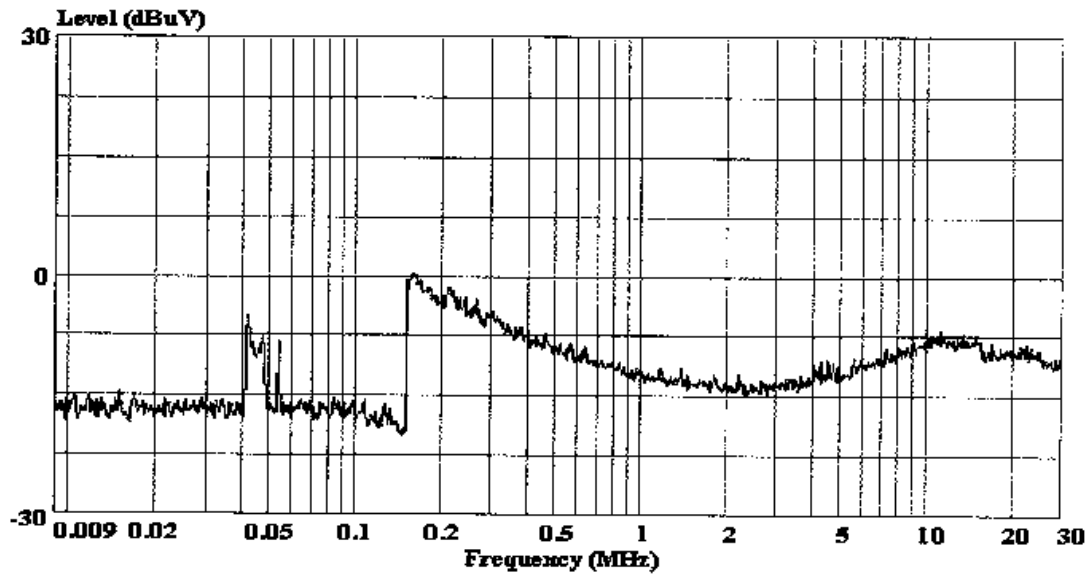


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audixaci@8848.net

Data#: 557 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:51:15



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE26 11W
S/N : E083105
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solon*

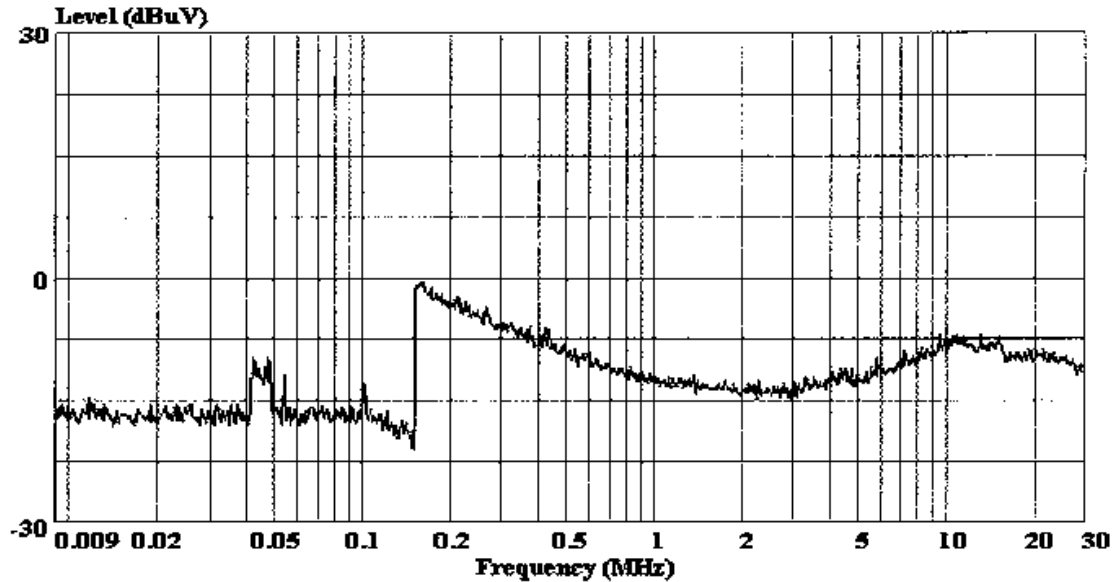


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audixaci@8848.net

Data#: 560 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:53:16



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE26 11W
S/N : E083105
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Solon*

For FE26 15W:

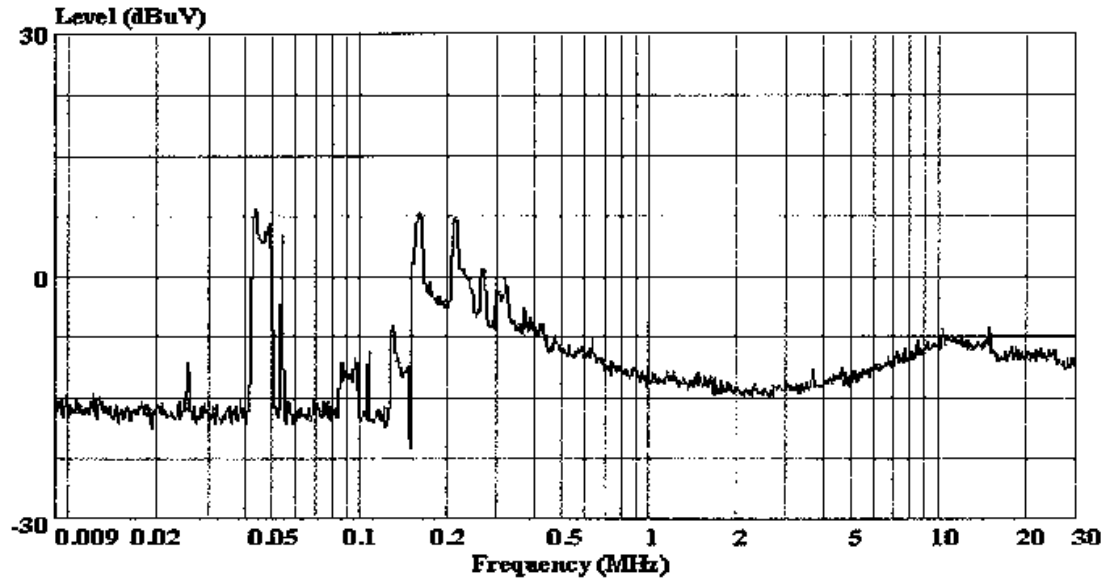


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Data#: 569 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 18:00:58



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE26 15W
S/N : E083106
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Selon*

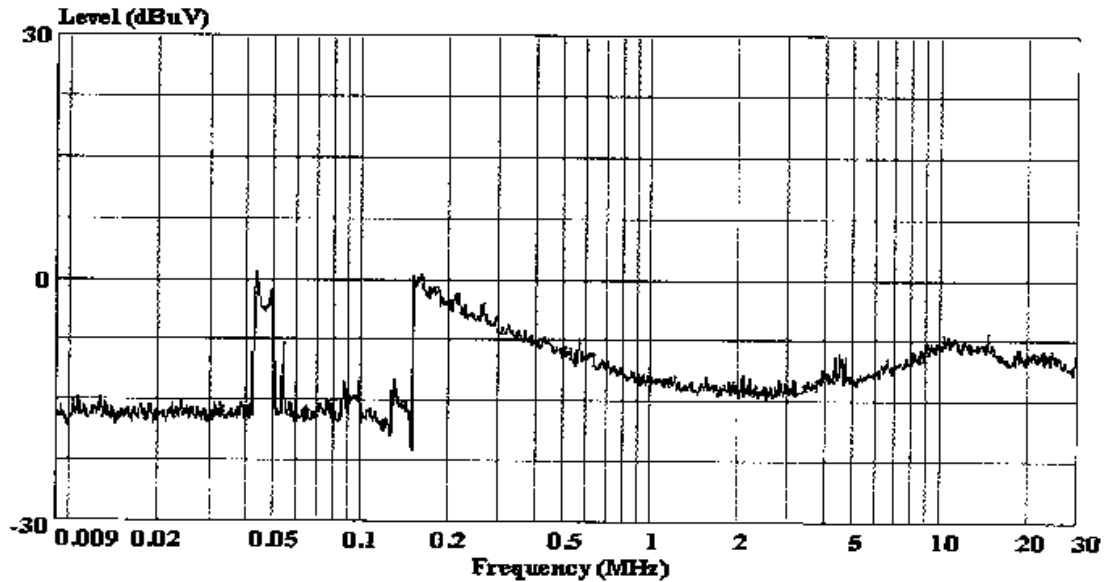


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audixaci@8848.net

Data#: 566 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:59:15



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co.,Ltd.
EUT : Energy Saving Lamp
M/N : FE26 15W
S/N : E083106
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solan*

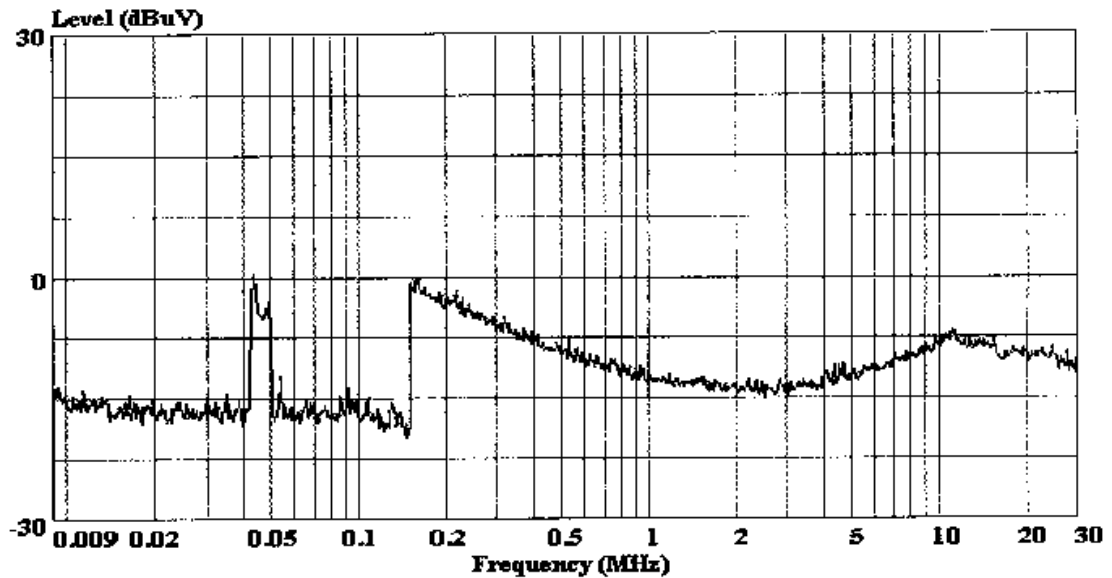


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Fax:+86-21-64955491
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Data#: 563 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:57:26



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE26 15W
S/N : E083106
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Solm*

For FE84-S 5W:

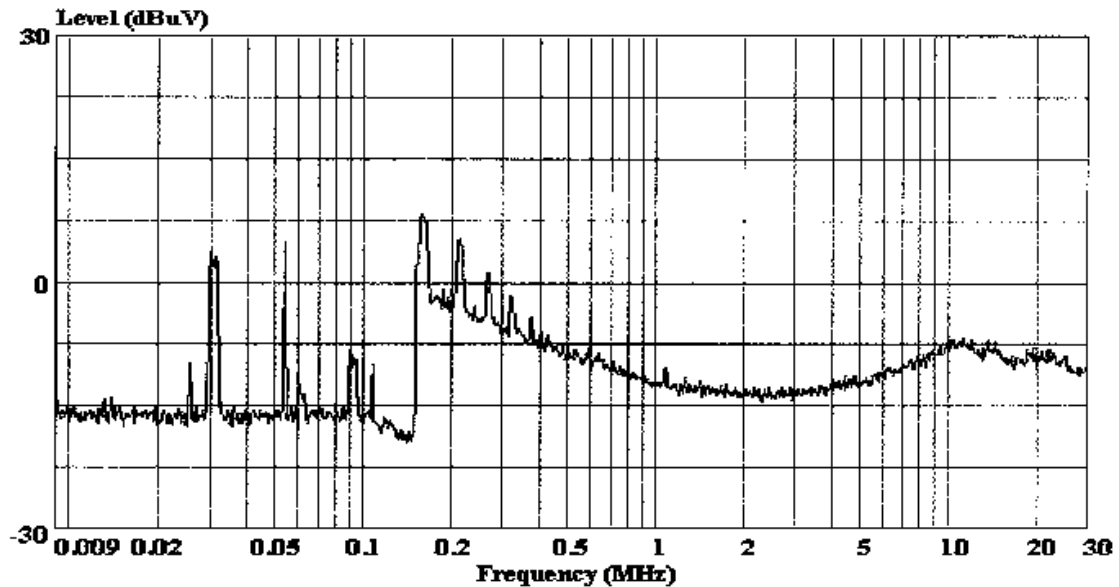


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Tel:+86-21-64955500
Fax:+86-21-64955491
audixaci@8848.net

Data#: 518 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:14:38



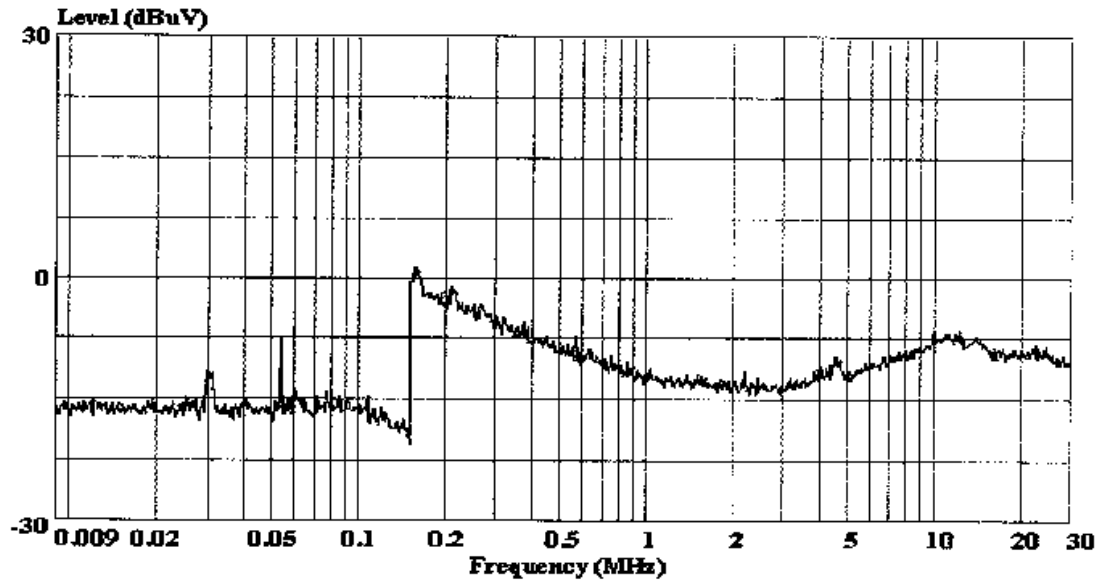
Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84-S 5W
S/N : E083101
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Solon*



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audixaci@8848.net

Data#: 521 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:17:25



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co.,Ltd.
EUT : Energy Saving Lamp
M/N : FE84-S 5W
S/N : E083101
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solon*

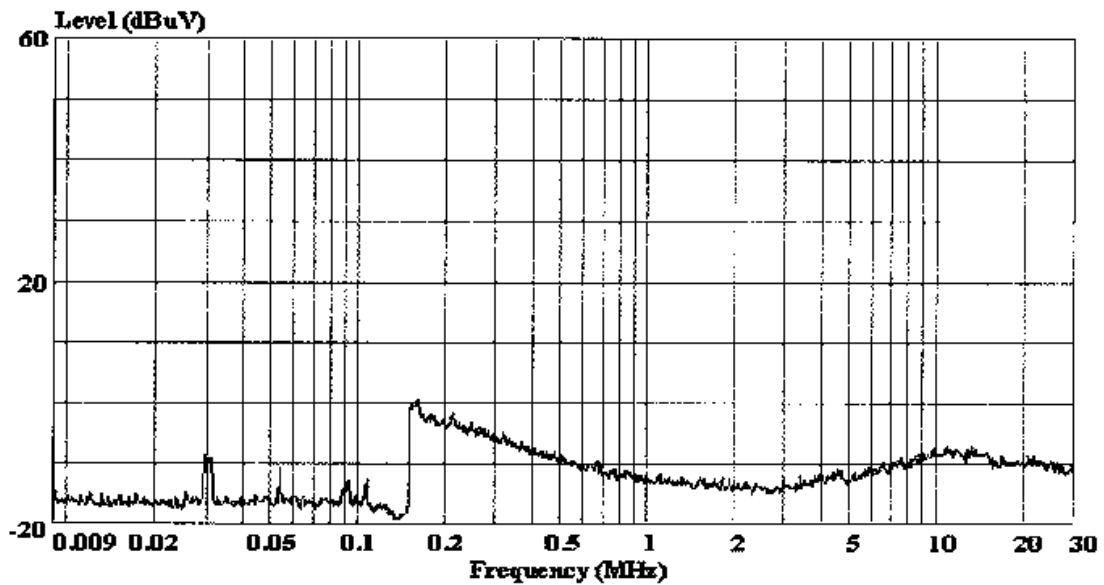


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Fax:+86-21-64955491
audixaci@8848.net

Data#: 524 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:20:06



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84-S 5W
S/N : E083101
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Selen*

For FE84-S 11W:

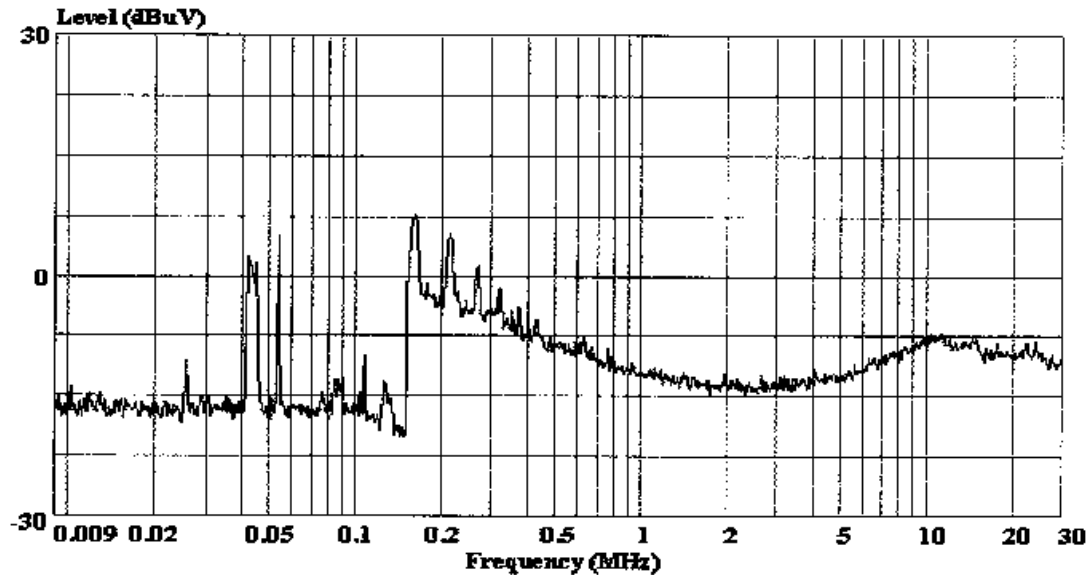


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Data#: 533 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:28:33



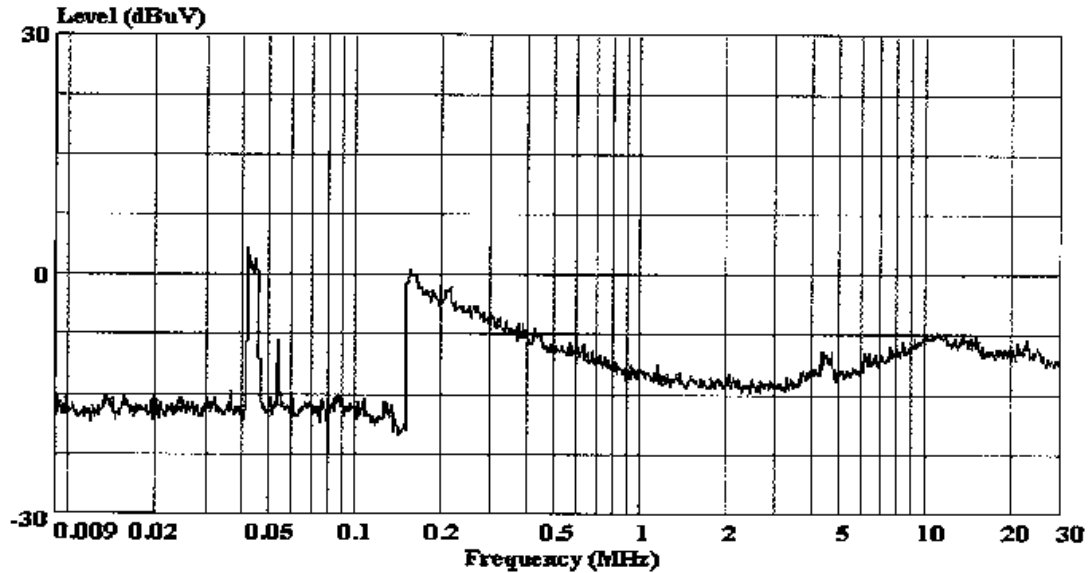
Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84-S 11W
S/N : E083102
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Solan*



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Data#: 530 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:24:24



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84-S 11W
S/N : E083102
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solon*

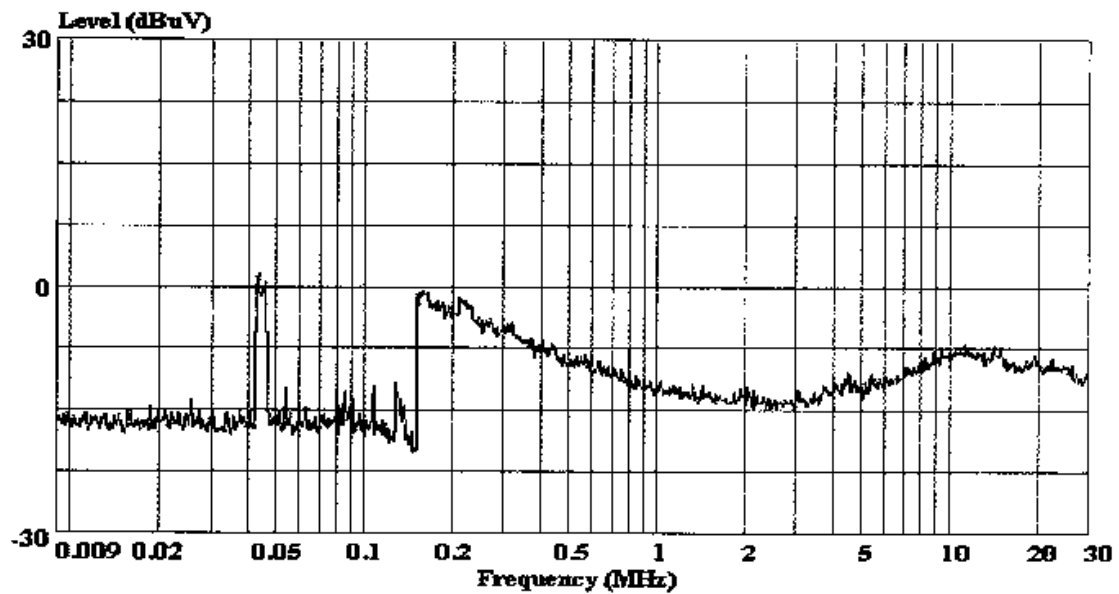


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audixaci@8848.net

Data#: 527 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:22:50



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84-S 11W
S/N : E083102
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Solon*

For FE84-S 15W:

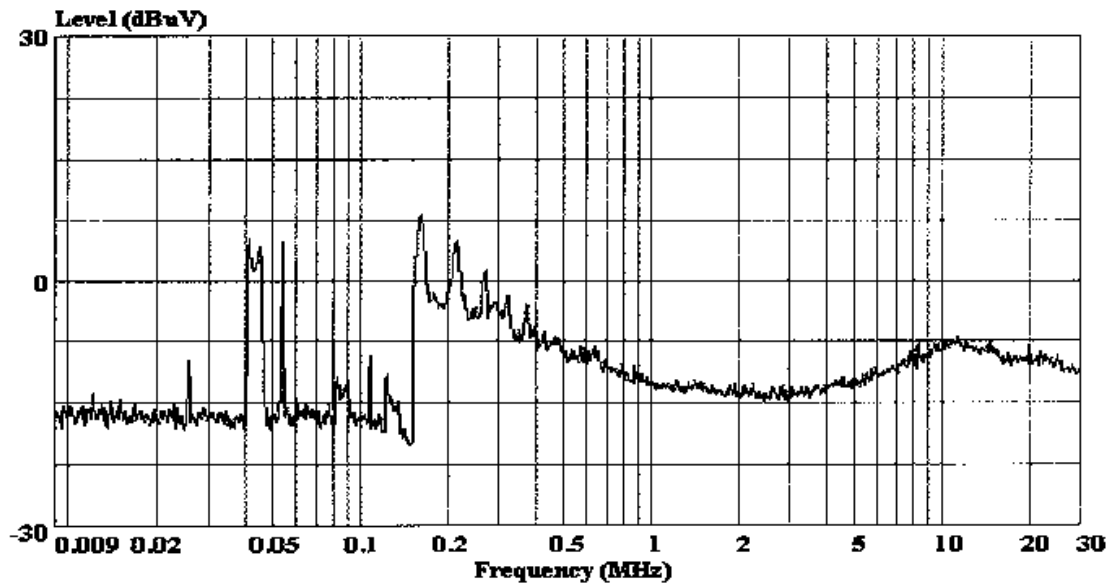


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Fax: +86-21-64955491
audixaci@8848.net

Data#: 536 File#: D:\EMI\VM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:32:54



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84-S 15W
S/N : E083103
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: Solon

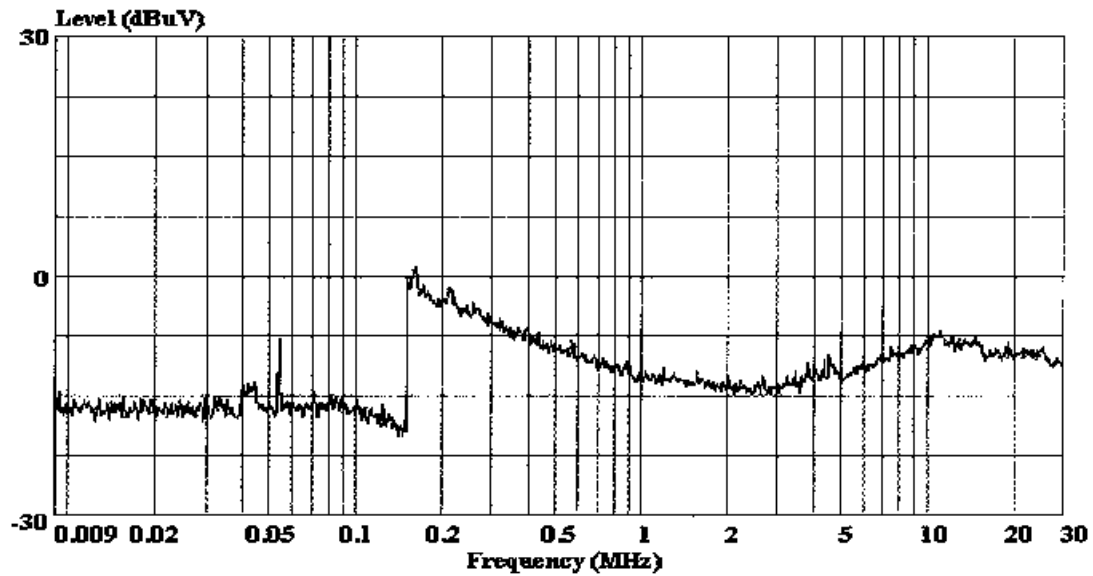


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audixaci@8848.net

Data#: 539 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:35:58



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84-S 15W
S/N : E083103
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solon*

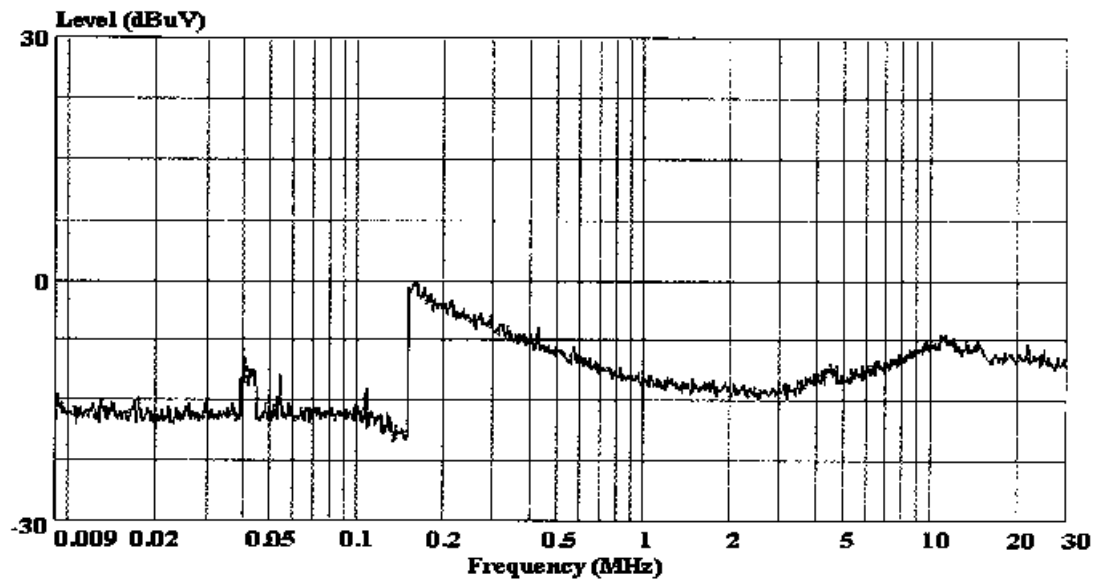


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audixaci@8848.net

Data#: 542 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-02 Time: 17:37:45



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84-S 15W
S/N : E083103
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Solmi*

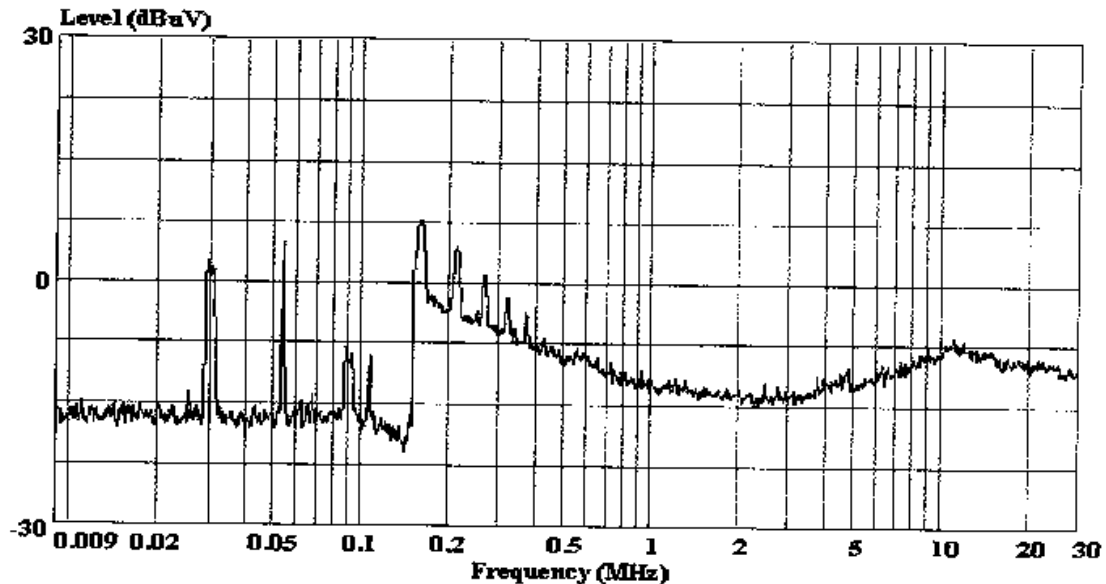
For FE84 5W:



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Shanghai, China
Tel:+86-21-64955500
Fax:+86-21-64955491
audixaci@8848.net

Data#: 726 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:25:26



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84 5W
S/N : E090401
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Selen*

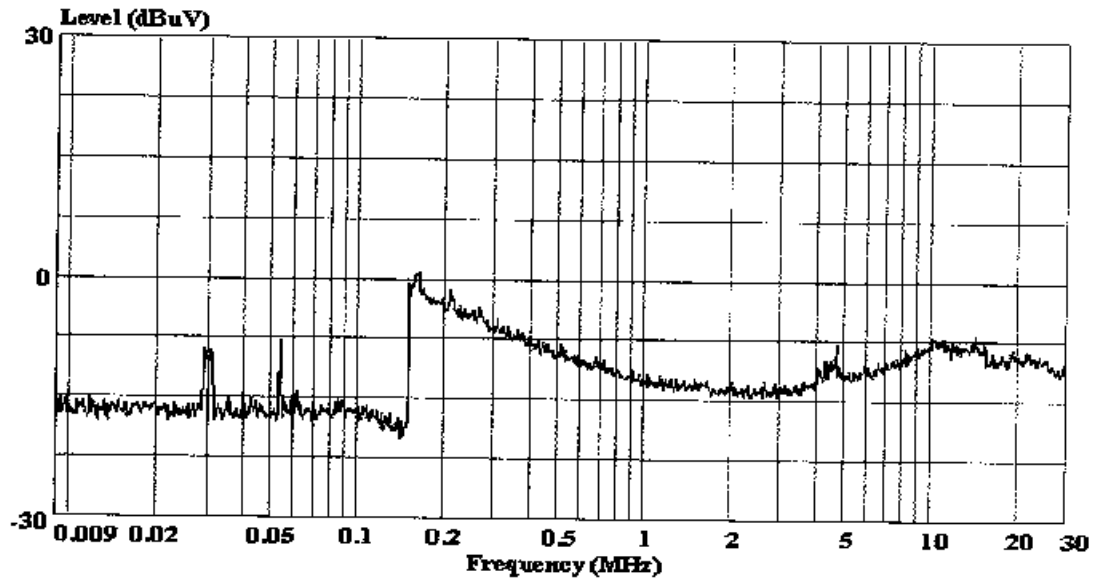


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audixaci@8848.net

Data#: 723 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:20:31



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84 5W
S/N : E090401
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Selon*

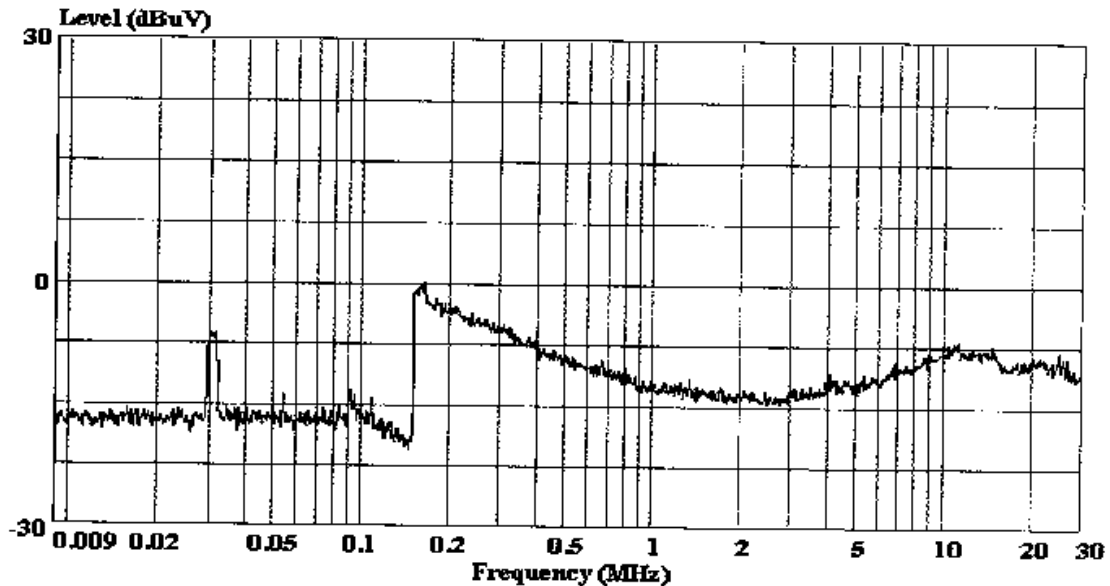


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audixaci@8848.net

Data#: 720 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:15:18



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84 5W
S/N : E090401
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: Solar

For FE84 11W:

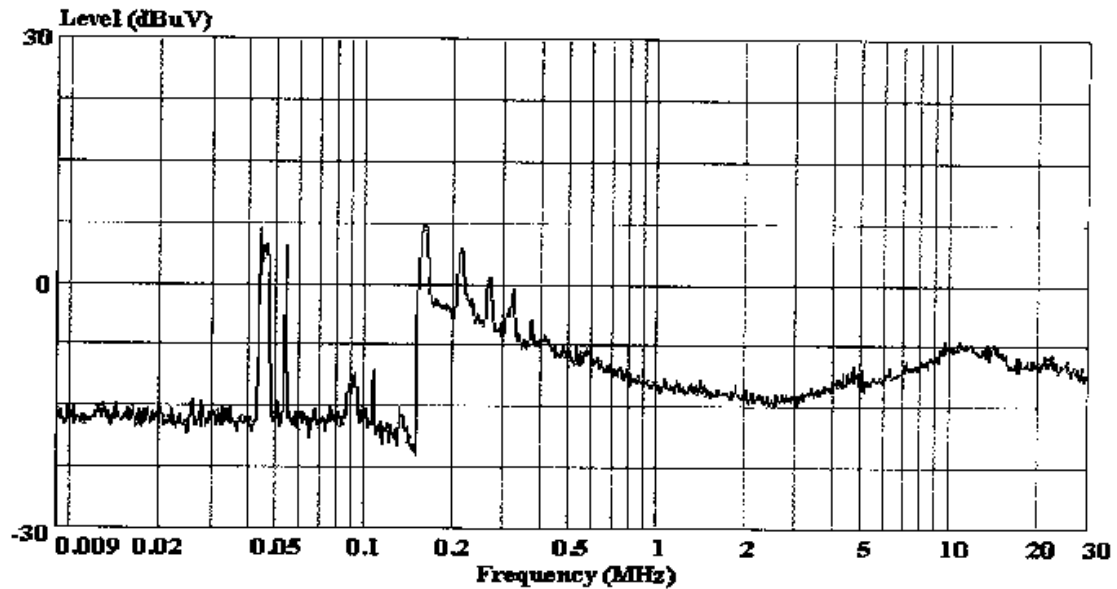


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Data#: 735 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:46:40



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84 11W
S/N : E090402
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Solon*

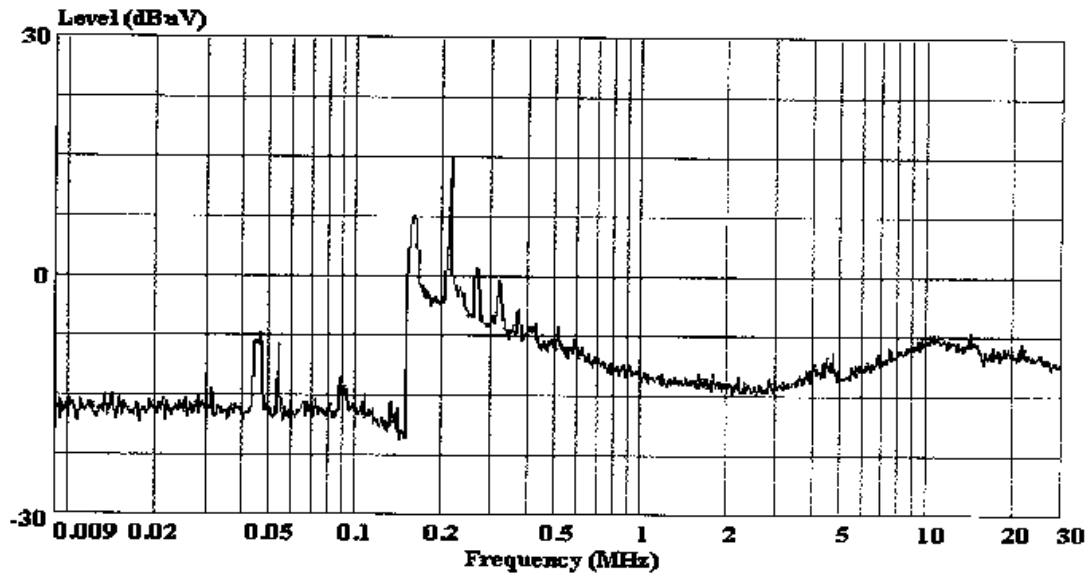


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Data#: 732 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:44:03



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84 11W
S/N : E090402
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solon*

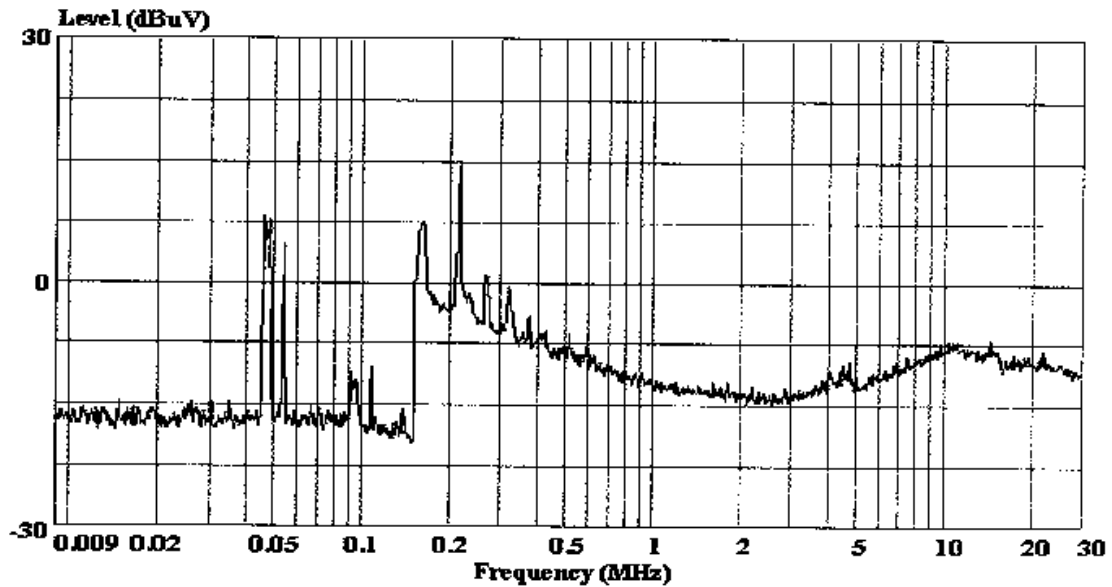


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Data#: 729 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:40:44



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84 11W
S/N : E090402
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Solan*

For FE84 15W:

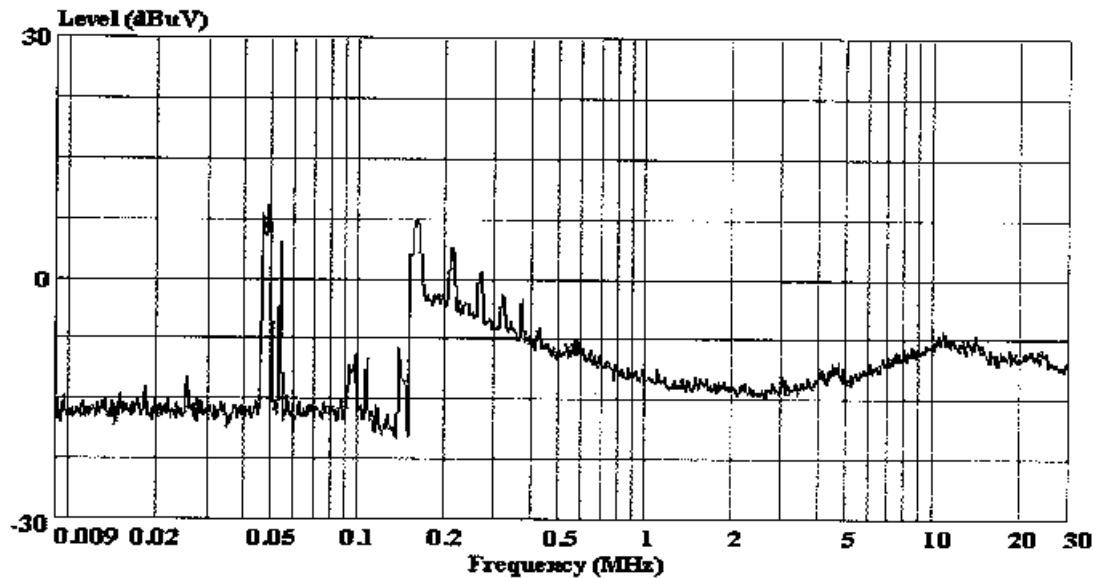


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Data#: 738 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:50:29



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84 15W
S/N : E090403
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Selen*

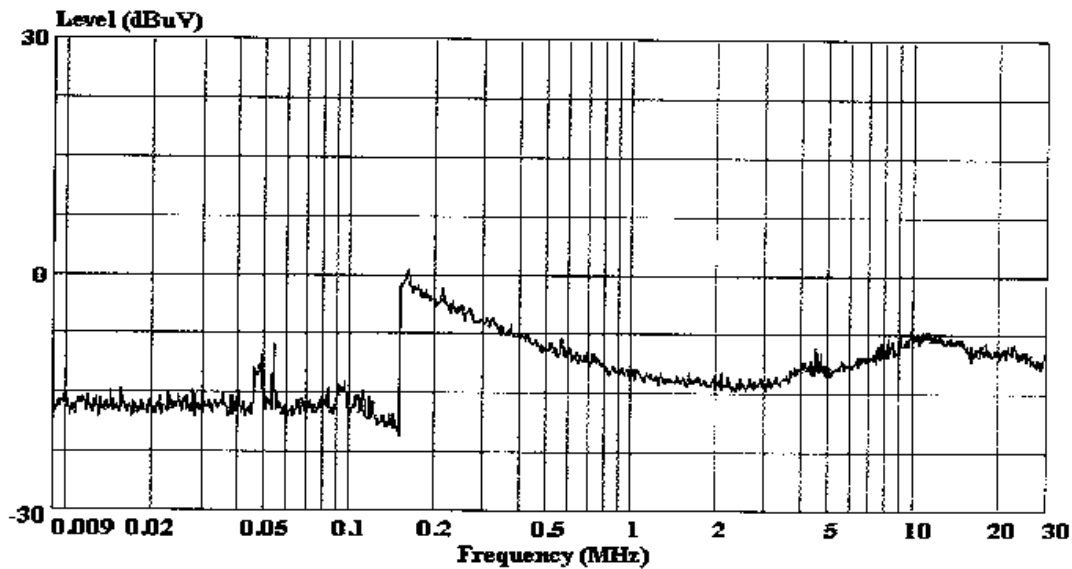


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Data#: 741 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:53:07



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84 15W
S/N : E090403
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Sela*

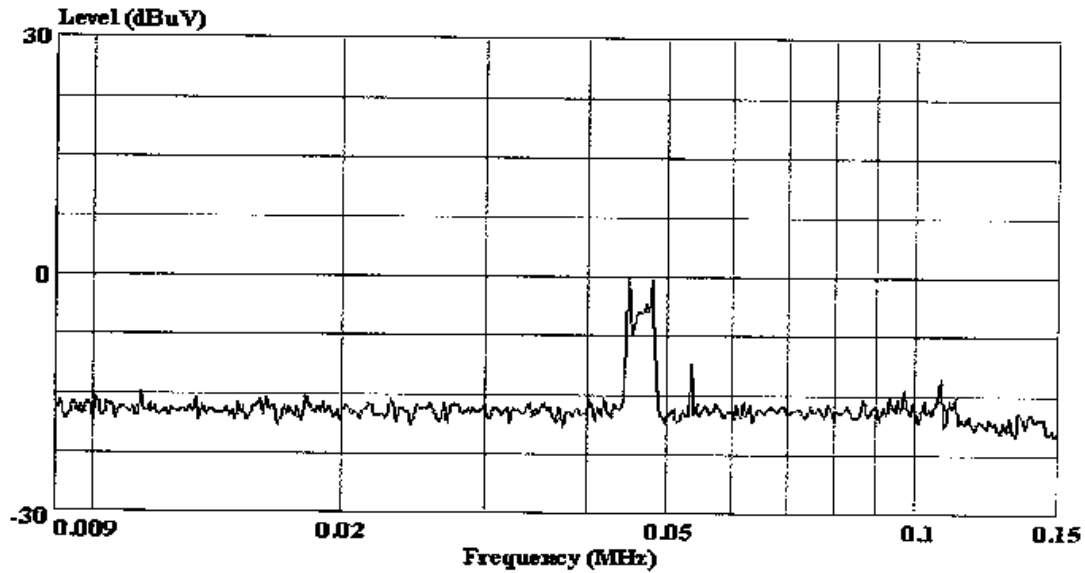


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Data#: 743 File#: D:\EMIVM\TEST\S\sunlight1.emi

Date: 2001-09-04 Time: 10:55:44



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE84 15W
S/N : E090403
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Solom*

For FE101 5W:

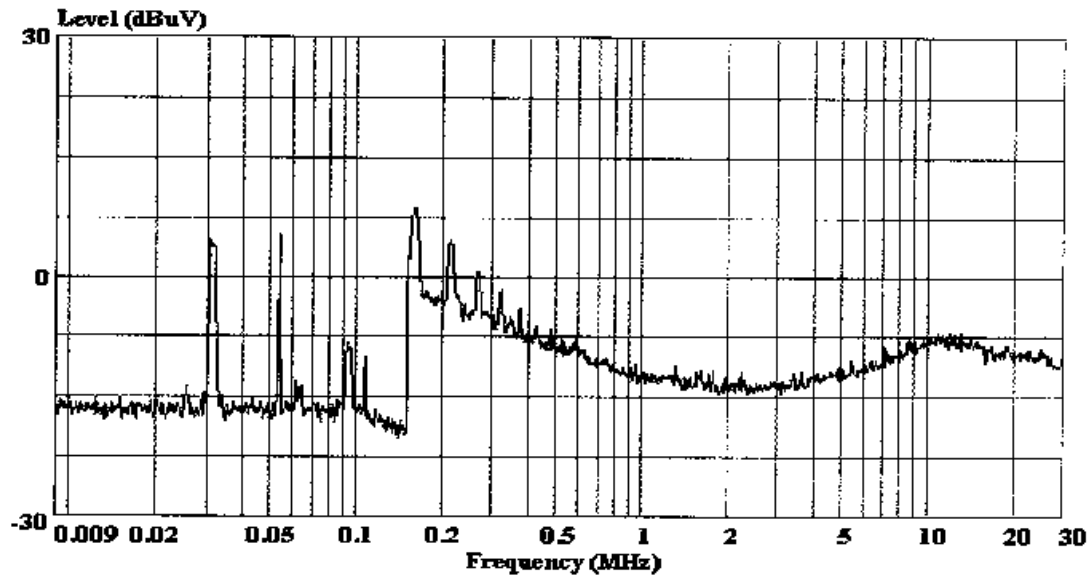


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Data#: 694 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 09:06:58



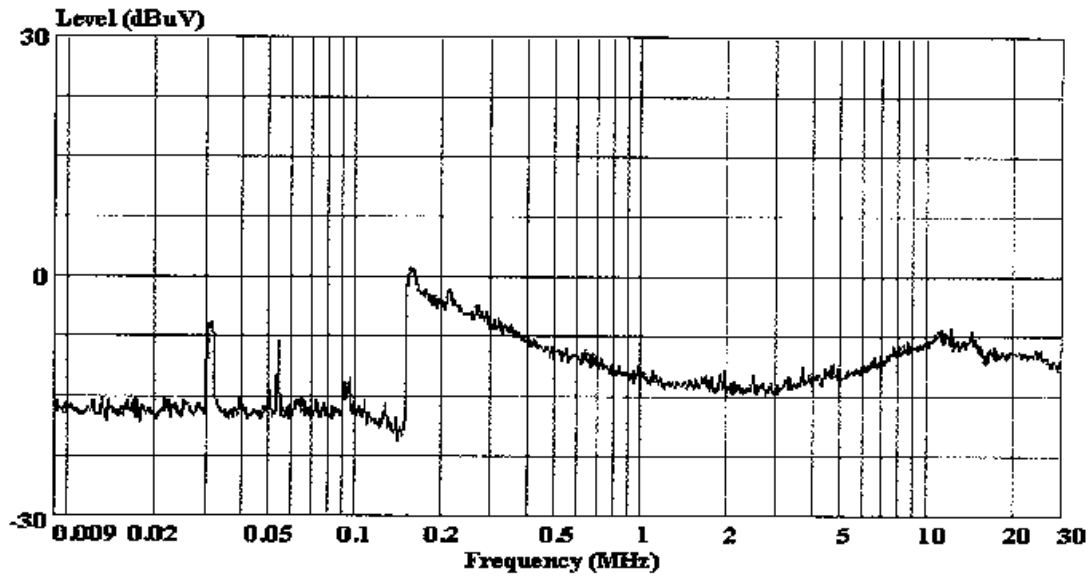
Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE101 5W
S/N : E090404
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : A
Test Mode : ON
Test Engineer: Solon



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Data#: 697 File#: D:\EMI\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 09:12:13



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE101 5W
S/N : E090404
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solon*

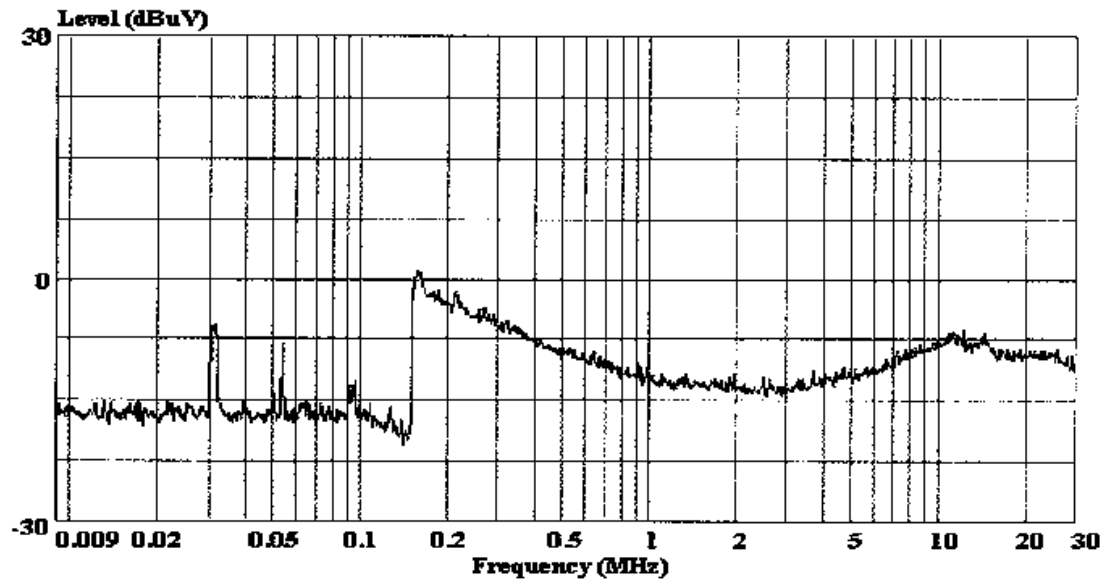


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Data#: 700 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 09:13:49



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co.,Ltd.
EUT : Energy Saving Lamp
M/N : FE101 5W
S/N : E090404
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Solon*

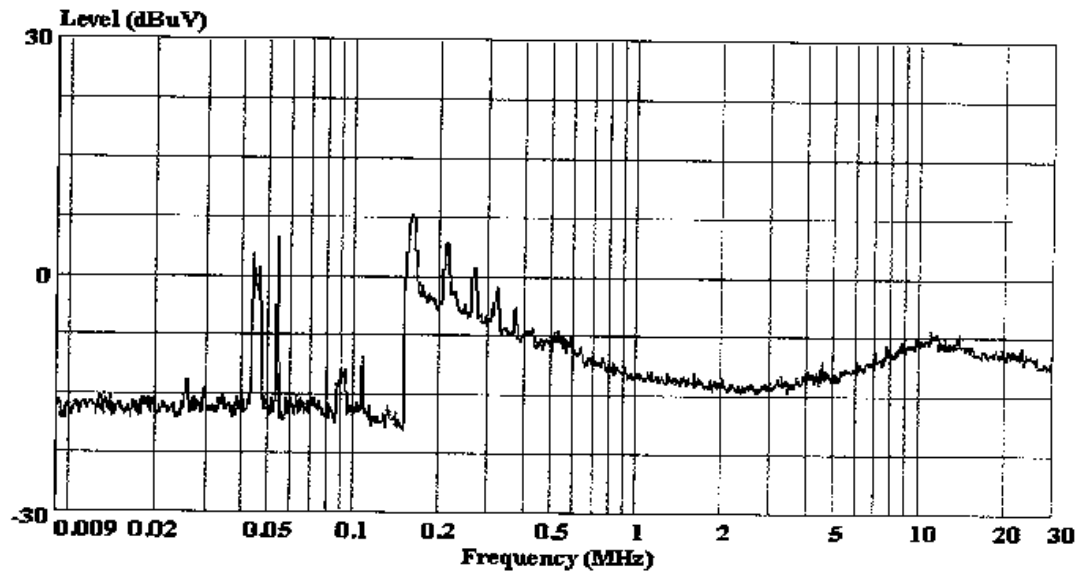
For FE101 11W:



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Data#: 708 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:02:26



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co.,Ltd.
EUT : Energy Saving Lamp
M/N : FE101 11W
S/N : E090405
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Solon*

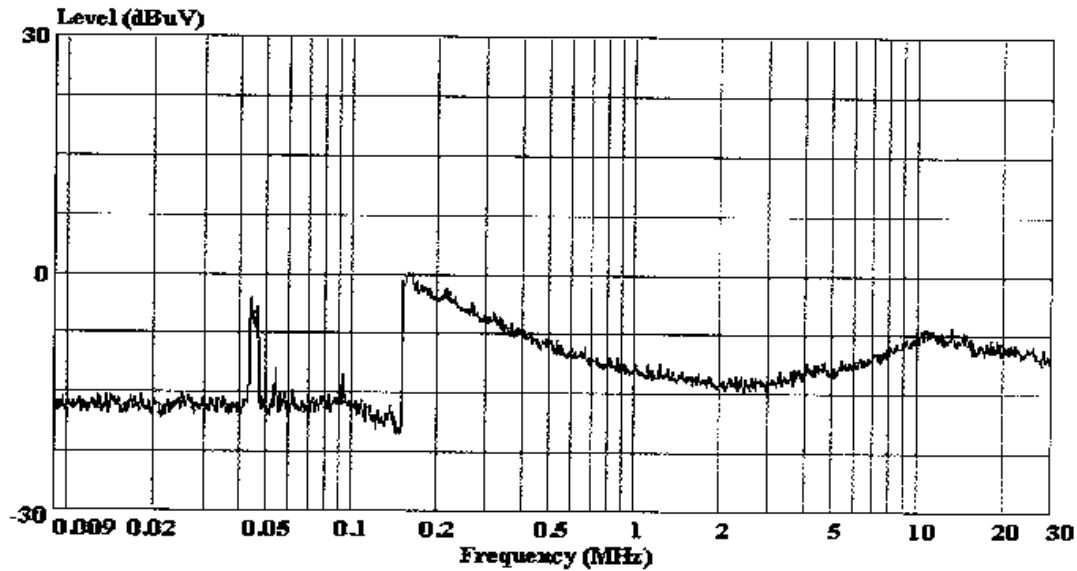


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Data#: 705 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 09:59:50



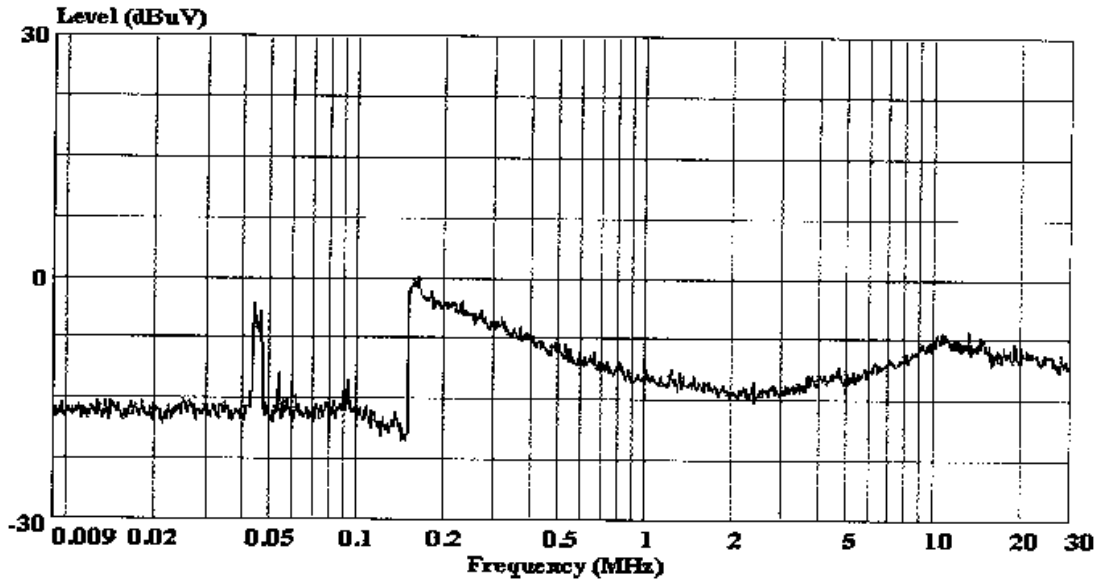
Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE101 11W
S/N : E090405
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solon*



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Data#: 703 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 09:56:36



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE101 11W
S/N : E090405
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: Solon

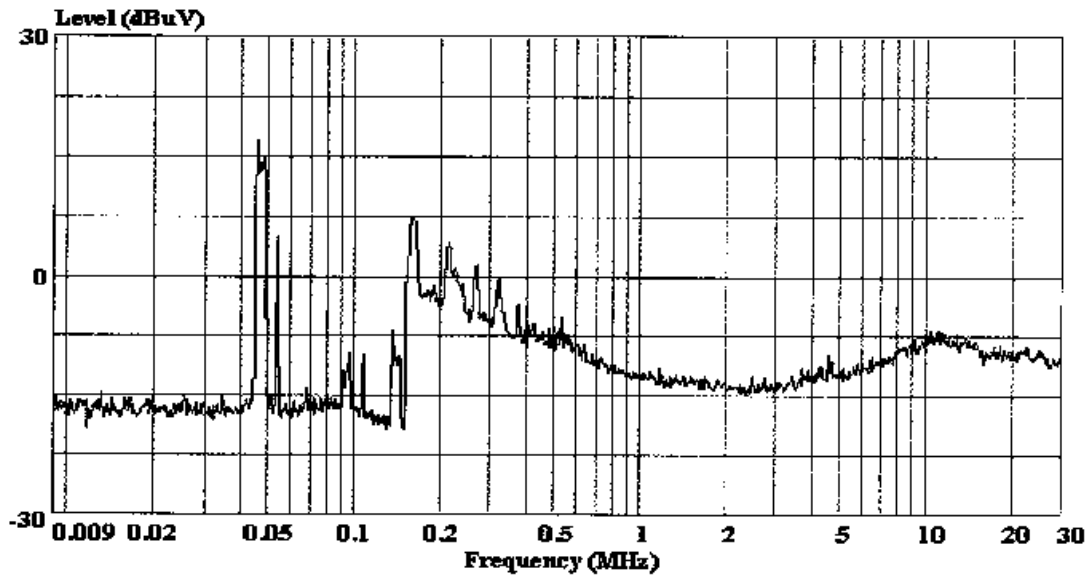
For FE101 15W:



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Data#: 711 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:07:18



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE101 15W
S/N : E090406
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: *Solen*

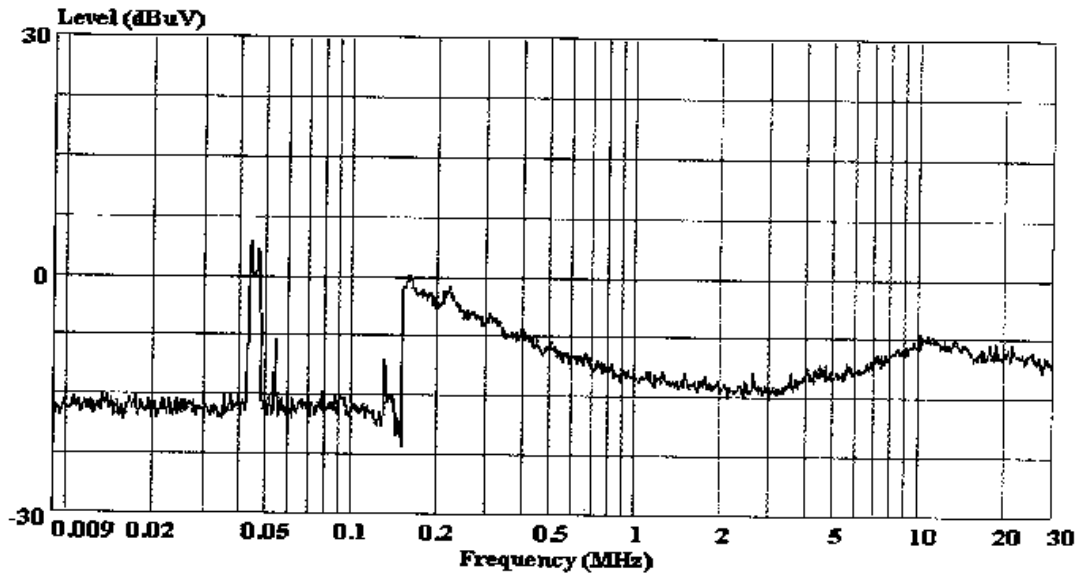


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Data#: 714 File#: D:\EMI\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:09:43



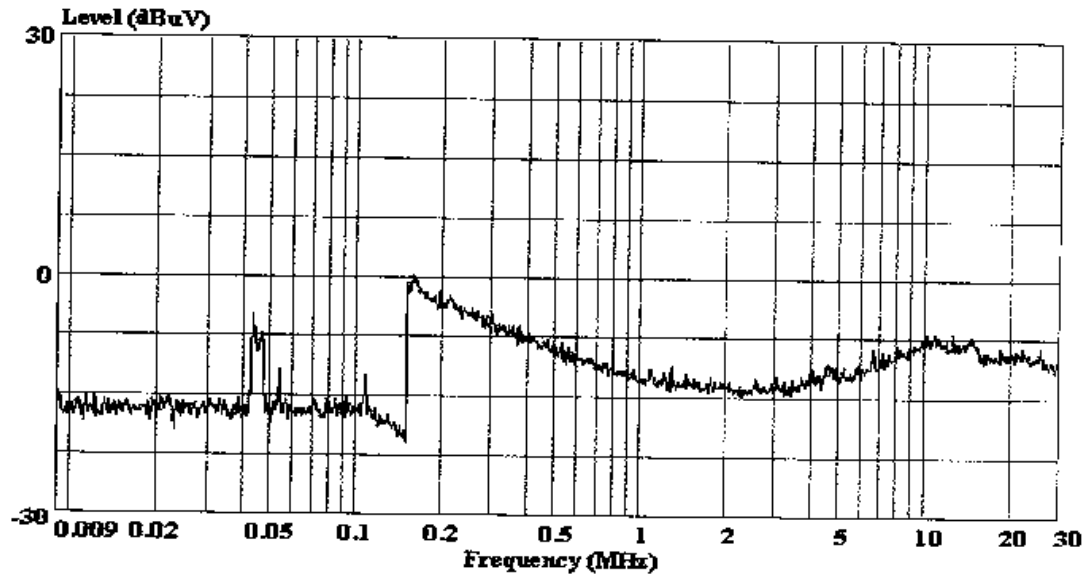
Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE101 15W
S/N : E090406
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Solon*



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Data#: 717 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-09-04 Time: 10:12:40



Site : audix-aci
Condition :
Project No. : AQE-000109
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE101 15W
S/N : E090406
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Selon*