

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

Energy Saving Lamp

Model No.:	FE23 15W	FE23 18W	FE23 20W
	FE23 23W(22W)	FE23 26W(25W)	
	FE24 15W	FE24 18W	FE24 20W
	FE24 23W(22W)	FE24 26W(25W)	
	FE25 15W	FE25 18W	FE25 20W
	FE25 23W(22W)	FE25 26W(25W)	
	FE35 15W	FE35 18W	FE35 20W
	FE35 23W(22W)	FE35 26W(25W)	

FCC ID: MM2FE0409

Prepared For : Zhejiang YanKon Group Co., LTD
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Zhejiang, China

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Report No. : ACI-F01083
Date of Test : Oct 09-10, 2001
Date of Report : Oct 17, 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.:

FE23 15W	FE23 18W	FE23 20W	FE23 23W(22W)	FE23 26W(25W)
FE24 15W	FE24 18W	FE24 20W	FE24 23W(22W)	FE24 26W(25W)
FE25 15W	FE25 18W	FE25 20W	FE25 23W(22W)	FE25 26W(25W)
FE35 15W	FE35 18W	FE35 20W	FE35 23W(22W)	FE35 26W(25W)

(B) Serial No.:

YK20012301	YK20012302	YK20012303	YK20012304	YK20012305
YK20012401	YK20012402	YK20012403	YK20012404	YK20012405
YK20012501	YK20012502	YK20012503	YK20012504	YK20012505
YK20013501	YK20013502	YK20013503	YK20013504	YK20013505

(C) Power Supply: 120V/60Hz

Test Procedure Used:

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

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

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

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

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

Date of Test : Oct 09-10, 2001

Prepared by : Stella Tang
STELLA TANG
(Assistant)

Test Engineer : Jim Hsu
JIM HSU
(Engineer)

Reviewer : Byron Kwo
BYRON KWO
(Supervisor)

Approved Signatory : Alex Chiu
ALEX CHIU
(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 : FE23 15W, FE23 18W, FE23 20W, FE23 23W(22W)
FE23 26W(25W)
FE24 15W, FE24 18W, FE24 20W, FE24 23W(22W)
FE24 26W(25W)
FE25 15W, FE25 18W, FE25 20W, FE25 23W(22W)
FE25 26W(25W)
FE35 15W, FE35 18W, FE35 20W, FE35 23W(22W)
FE35 26W(25W)
(All the models have been tested. In this report, only the data of
FE23 15W, FE23 20W, FE23 26W(25W), FE24 15W, FE24 20W,
FE24 26W(25W), FE25 15W, FE25 20W, FE25 26W(25W)
FE35 15W, FE35 20W, FE35 26W(25W) are reported.

Applicant : Zhejiang YanKon Group Co., LTD
No.129 Feng Shan Rd, Shang Yu City, Zhejiang, China

Manufacturer : Zhejiang YanKon Group Co., LTD
Tong Jiang Road, Shang Yu City, Zhejiang, China

M/N	INPUT POWER (VA)	OUTPUT POWER (W)
FE23 15W	24.7	14.3
FE23 18W	32.1	18.1
FE23 20W	36.5	20.2
FE23 23W(22W)	41.1	22.8
FE23 26W(25W)	47.4	26.2
FE24 15W	24.3	13.7
FE24 18W	33.5	18.1
FE24 20W	37.0	19.9
FE24 23W(22W)	41.3	22.7
FE24 26W(25W)	45.0	24.1
FE25 15W	24.6	14.1
FE25 18W	30.9	17.1
FE25 20W	34.7	19.0
FE25 23W(22W)	41.1	22.2
FE25 26W(25W)	42.5	24.2
FE35 15W	27.0	15.6
FE35 18W	33.2	17.6
FE35 20W	36.0	19.1
FE35 23W(22W)	41.5	22.8
FE35 26W(25W)	45.0	24.0

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	:	$U = \pm 2.66\text{dB}$
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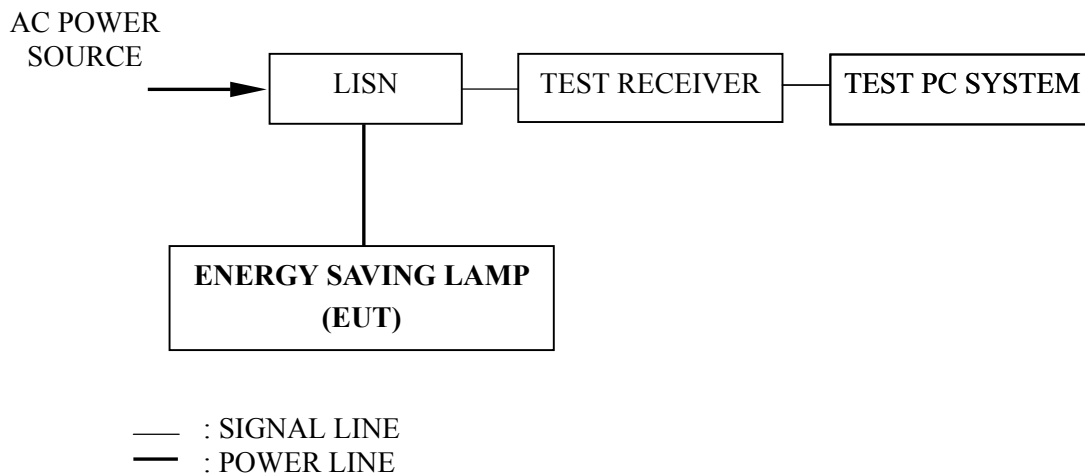
2 AC POWERLINE CONDUCTED EMISSION TEST

2.1 Test Equipment

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

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

2.2 Block Diagram of Test Setup



2.3 Conducted Emission Limits

Frequency (MHz)	Maximum RF Line Voltage	
	(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) NOTE 2 – The tighter limits shall apply at the boundary between two frequency ranges.		

2.4 Test Configuration

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

2.5 Operating Condition of EUT

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

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

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

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

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

2.6 Test Procedures

2.6.1 Test Procedures.

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. : FE23 15W Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 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	38.31	38.64	48.00	9.36
	0.557	0.30	36.59	36.89	48.00	11.11
	0.638	0.30	38.00	38.30	48.00	9.70
	0.685	0.29	34.13	34.42	48.00	13.58
	0.793	0.28	31.96	32.24	48.00	15.76
	1.404	0.27	33.12	33.39	48.00	14.61
VB	0.481	0.32	37.83	38.15	48.00	9.85
	0.668	0.29	38.64	38.93	48.00	9.07
	0.834	0.28	34.71	34.99	48.00	13.01
	0.975	0.27	32.21	32.48	48.00	15.52
	1.471	0.25	32.09	32.34	48.00	15.66
	1.647	0.25	32.47	32.72	48.00	15.28
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 0.668 MHz with corrected signal level of 38.93dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE23 20W Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.485	0.32	34.65	34.97	48.00	13.03
	0.537	0.31	36.93	37.24	48.00	10.76
	0.691	0.29	34.97	35.26	48.00	12.74
	0.800	0.28	32.60	32.88	48.00	15.12
	0.958	0.27	32.78	33.05	48.00	14.95
	1.119	0.27	30.50	30.77	48.00	17.23
VB	0.489	0.31	34.62	34.93	48.00	13.07
	0.535	0.31	37.49	37.80	48.00	10.20
	0.691	0.29	35.27	35.56	48.00	12.44
	0.814	0.28	33.06	33.34	48.00	14.66
	0.958	0.27	32.14	32.41	48.00	15.59
	1.110	0.27	31.54	31.81	48.00	16.19
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 0.535 MHz with corrected signal level of 37.80 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE23 26W(25W) Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.521	0.31	38.24	38.55	48.00	9.45
	0.596	0.30	38.61	38.91	48.00	9.09
	0.714	0.29	39.15	39.44	48.00	8.56
	0.927	0.27	38.40	38.67	48.00	9.33
	1.110	0.27	36.86	37.13	48.00	10.87
	4.383	0.27	34.60	34.87	48.00	13.13
VB	0.513	0.31	39.48	39.79	48.00	8.21
	0.572	0.30	35.56	35.86	48.00	12.14
	0.646	0.29	36.33	36.62	48.00	11.38
	0.702	0.29	38.37	38.66	48.00	9.34
	0.904	0.28	37.19	37.47	48.00	10.53
	1.101	0.27	35.00	35.27	48.00	12.73
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 0.513 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.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE24 15W Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.517	0.31	35.93	36.24	48.00	11.76
	0.577	0.30	34.93	35.23	48.00	12.77
	0.834	0.28	31.51	31.79	48.00	16.21
	0.885	0.28	34.55	34.83	48.00	13.17
	0.934	0.27	35.48	35.75	48.00	12.25
	1.008	0.27	31.35	31.62	48.00	16.38
VB	0.461	0.33	32.90	33.23	48.00	14.77
	0.526	0.31	36.26	36.57	48.00	11.43
	0.702	0.29	34.13	34.42	48.00	13.58
	0.881	0.28	34.06	34.34	48.00	13.66
	0.927	0.27	34.14	34.41	48.00	13.59
	1.034	0.27	31.60	31.87	48.00	16.13
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 0.526 MHz with corrected signal level of 36.57 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE24 20W Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.596	0.30	37.16	37.46	48.00	10.54
	0.754	0.29	36.56	36.85	48.00	11.15
	0.904	0.28	34.88	35.16	48.00	12.84
	1.101	0.27	30.95	31.22	48.00	16.78
	1.197	0.26	31.41	31.67	48.00	16.33
	1.297	0.26	31.07	31.33	48.00	16.67
VB	0.586	0.30	39.37	39.67	48.00	8.33
	0.748	0.29	38.24	38.53	48.00	9.47
	0.904	0.28	34.84	35.12	48.00	12.88
	1.034	0.27	32.65	32.92	48.00	15.08
	1.270	0.26	29.90	30.16	48.00	17.84
	1.689	0.25	30.79	31.04	48.00	16.96
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 0.586 MHz with corrected signal level of 39.67 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE24 26W(25W) Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.477	0.32	37.68	38.00	48.00	10.00
	0.535	0.31	35.15	35.46	48.00	12.54
	0.651	0.29	37.50	37.79	48.00	10.21
	0.754	0.29	37.88	38.17	48.00	9.83
	0.820	0.28	36.15	36.43	48.00	11.57
	0.927	0.27	36.88	37.15	48.00	10.85
VB	0.481	0.32	37.46	37.78	48.00	10.22
	0.535	0.31	34.99	35.30	48.00	12.70
	0.662	0.29	37.67	37.96	48.00	10.04
	0.754	0.29	36.96	37.25	48.00	10.75
	0.820	0.28	36.55	36.83	48.00	11.17
	0.934	0.27	37.36	37.63	48.00	10.37
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 0.754 MHz with corrected signal level of 38.17 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE25 15W Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.513	0.31	36.42	36.73	48.00	11.27
	0.572	0.30	34.93	35.23	48.00	12.77
	0.635	0.30	36.00	36.30	48.00	11.70
	0.714	0.29	35.87	36.16	48.00	11.84
	0.787	0.28	36.00	36.28	48.00	11.72
	0.896	0.28	35.08	35.36	48.00	12.64
VB	0.513	0.31	36.32	36.63	48.00	11.37
	0.581	0.30	34.82	35.12	48.00	12.88
	0.635	0.30	36.09	36.39	48.00	11.61
	0.702	0.29	36.19	36.48	48.00	11.52
	0.787	0.28	35.84	36.12	48.00	11.88
	0.896	0.28	37.24	37.52	48.00	10.48
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 0.896 MHz with corrected signal level of 37.52 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE25 20W Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.477	0.32	35.69	36.01	48.00	11.99
	0.572	0.30	38.74	39.04	48.00	8.96
	0.673	0.29	36.55	36.84	48.00	11.16
	0.702	0.29	36.07	36.36	48.00	11.64
	0.834	0.28	37.84	38.12	48.00	9.88
	0.934	0.27	37.36	37.63	48.00	10.37
VB	0.494	0.31	36.38	36.69	48.00	11.31
	0.530	0.31	30.75	31.06	48.00	16.94
	0.572	0.30	38.11	38.41	48.00	9.59
	0.673	0.29	35.19	35.48	48.00	12.52
	0.742	0.29	37.39	37.68	48.00	10.32
	0.848	0.28	37.35	37.63	48.00	10.37
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 0.572 MHz with corrected signal level of 39.04 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE25 26W(25W) Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.513	0.31	38.57	38.88	48.00	9.12
	0.673	0.29	38.43	38.72	48.00	9.28
	0.787	0.28	35.76	36.04	48.00	11.96
	0.834	0.28	36.62	36.90	48.00	11.10
	0.950	0.27	33.44	33.71	48.00	14.29
	1.087	0.27	35.19	35.46	48.00	12.54
VB	0.489	0.31	40.97	41.28	48.00	6.72
	0.609	0.30	39.84	40.14	48.00	7.86
	0.657	0.29	40.69	40.98	48.00	7.02
	0.787	0.28	38.48	38.76	48.00	9.24
	0.934	0.27	35.34	35.61	48.00	12.39
	1.129	0.26	32.72	32.98	48.00	15.02
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 0.489 MHz with corrected signal level of 41.28 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE35 15W Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.504	0.31	37.62	37.93	48.00	10.07
	0.572	0.30	32.55	32.85	48.00	15.15
	0.679	0.29	34.57	34.86	48.00	13.14
	0.736	0.29	30.02	30.31	48.00	17.69
	0.814	0.28	30.46	30.74	48.00	17.26
	1.129	0.26	29.59	29.85	48.00	18.15
VB	0.526	0.31	36.81	37.12	48.00	10.88
	0.572	0.30	36.88	37.18	48.00	10.82
	0.657	0.29	35.30	35.59	48.00	12.41
	0.729	0.29	38.27	38.56	48.00	9.44
	0.793	0.28	36.20	36.48	48.00	11.52
	0.911	0.28	35.96	36.24	48.00	11.76
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 0.729 MHz with corrected signal level of 38.56 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE35 20W Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.548	0.30	38.99	39.29	48.00	8.71
	0.604	0.30	35.50	35.80	48.00	12.20
	0.714	0.29	35.19	35.48	48.00	12.52
	0.896	0.28	34.24	34.52	48.00	13.48
	1.134	0.26	32.45	32.71	48.00	15.29
	1.243	0.26	31.63	31.89	48.00	16.11
VB	0.544	0.31	38.18	38.49	48.00	9.51
	0.604	0.30	35.56	35.86	48.00	12.14
	0.702	0.29	35.71	36.00	48.00	12.00
	0.748	0.29	36.08	36.37	48.00	11.63
	0.889	0.28	34.22	34.50	48.00	13.50
	1.228	0.26	31.95	32.21	48.00	15.79
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 0.548 MHz with corrected signal level of 39.29dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE35 26W(25W) Humidity : 53%

Test Mode : ON Date of Test : Oct 10, 2001

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.548	0.30	37.69	37.99	48.00	10.01
	0.589	0.30	34.15	34.45	48.00	13.55
	0.624	0.30	36.21	36.51	48.00	11.49
	0.720	0.29	37.09	37.38	48.00	10.62
	0.962	0.27	34.66	34.93	48.00	13.07
	1.129	0.26	33.19	33.45	48.00	14.55
VB	0.553	0.30	38.57	38.87	48.00	9.13
	0.586	0.30	35.51	35.81	48.00	12.19
	0.624	0.30	37.63	37.93	48.00	10.07
	0.720	0.29	38.69	38.98	48.00	9.02
	0.831	0.28	35.65	35.93	48.00	12.07
	0.966	0.27	33.28	33.55	48.00	14.45
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 0.720 MHz with corrected signal level of 38.98 dB(μV) (limit is 48.00 dB(μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: _____
(JIM HSU)

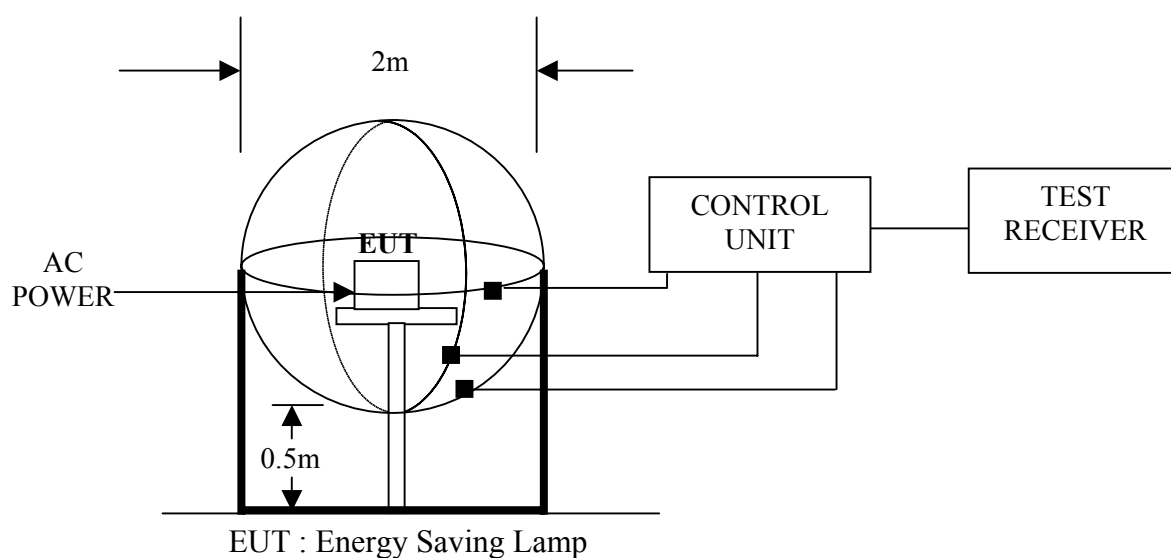
3 FIELD STRENGTH TEST

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 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 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.

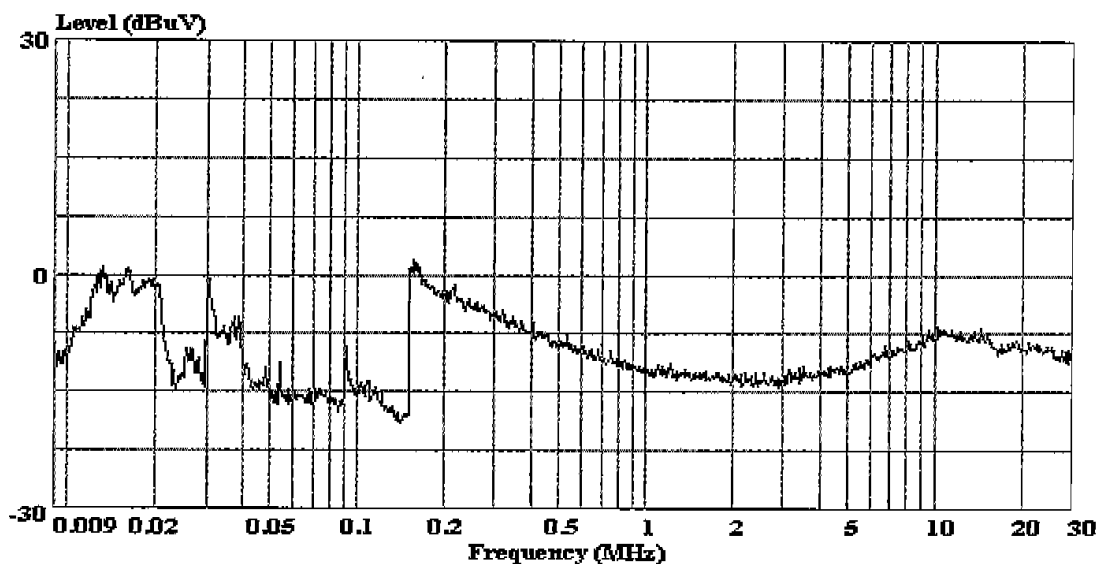


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Fax:+86-21-64955491
audixaci@8848.net

Data#: 9 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-13 Time: 15:52:34



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE23 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : A
Test Mode : ON
Test Engineer: Jimhsn

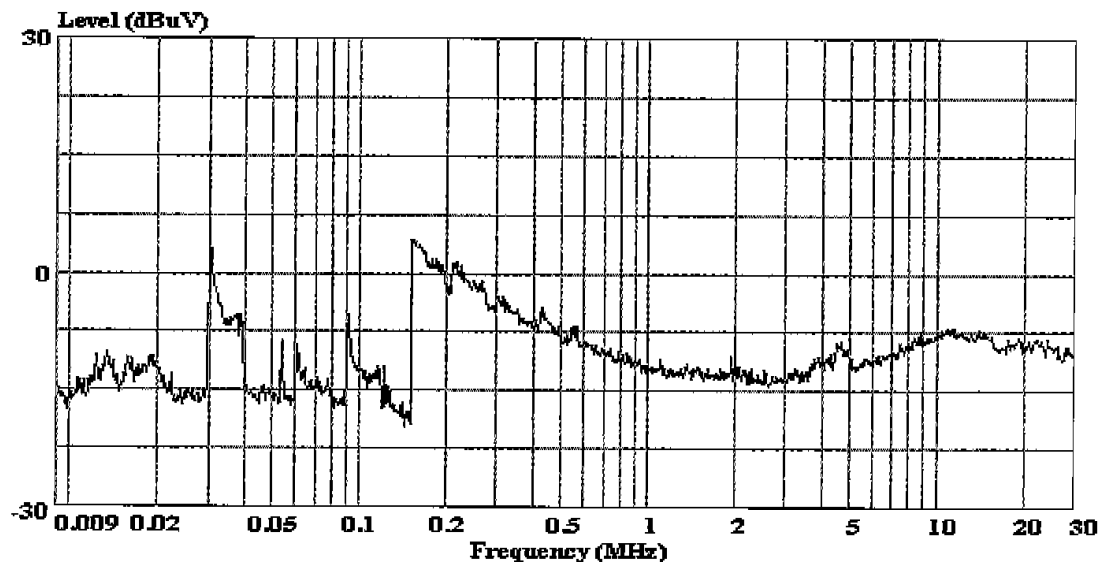


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Data#: 6 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-13 Time: 15:45:31



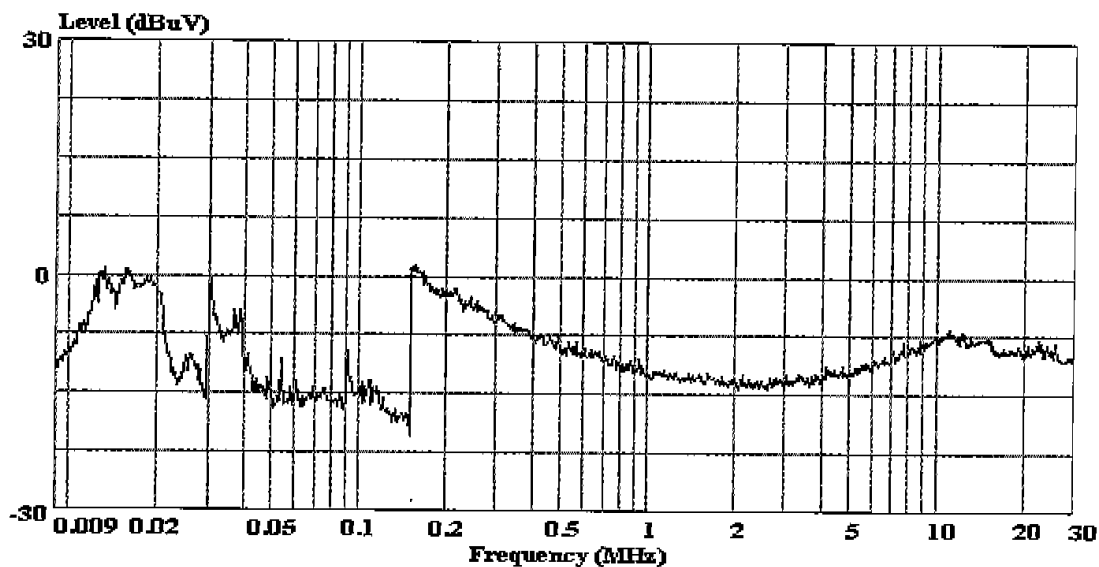
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Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE23 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : B
Test Mode : ON
Test Engineer: Jimhsu



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audixaci@8848.net

Data#: 3 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-13 Time: 15:36:09



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE23 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%RH
Test Line : C
Test Mode : ON
Test Engineer: Jimhsu

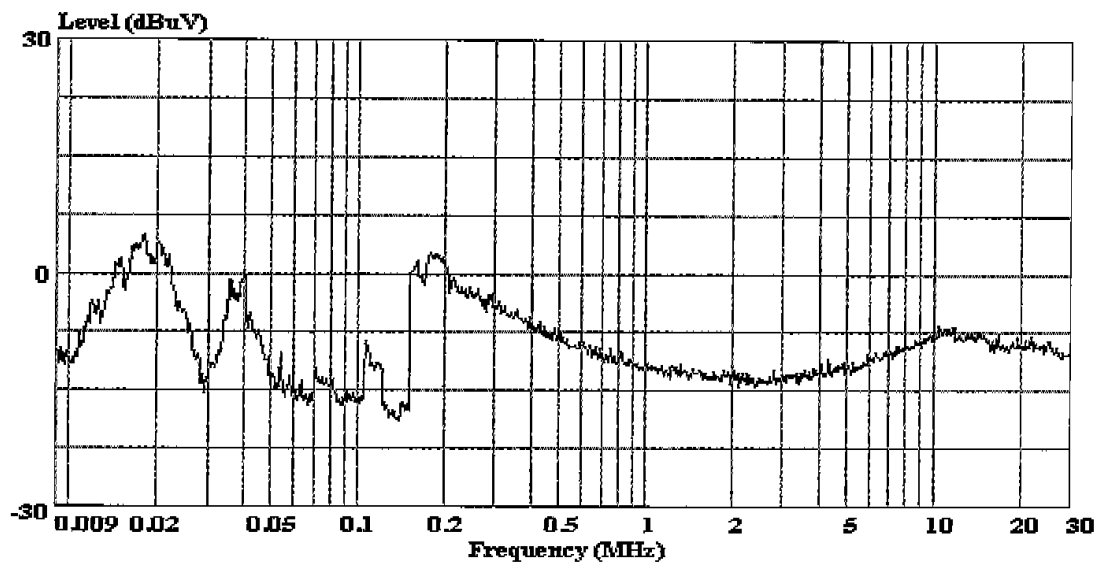


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Data#: 12 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-13 Time: 16:00:56



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE23 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : A
Test Mode : ON
Test Engineer: Jinhua

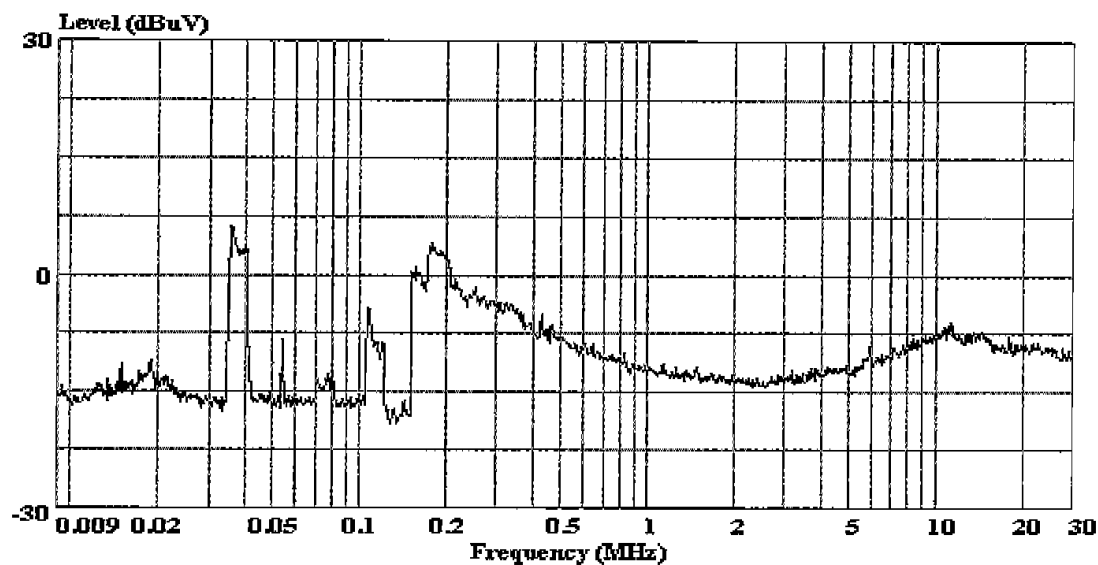


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Data#: 15 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-13 Time: 16:05:32



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE23 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : B
Test Mode : ON
Test Engineer: Jimhsu

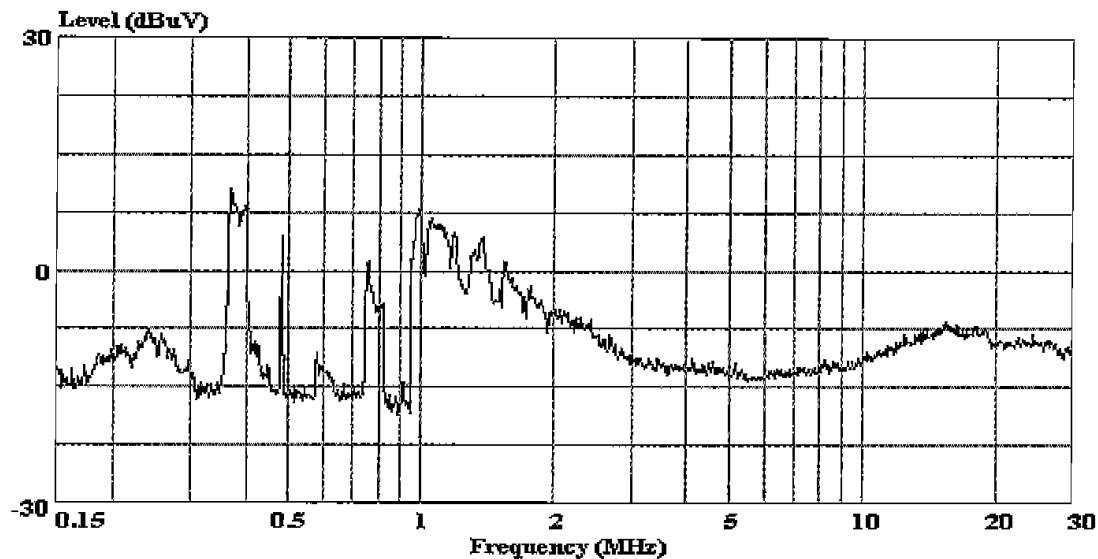


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Date: 2001-10-15 Time: 08:51:00



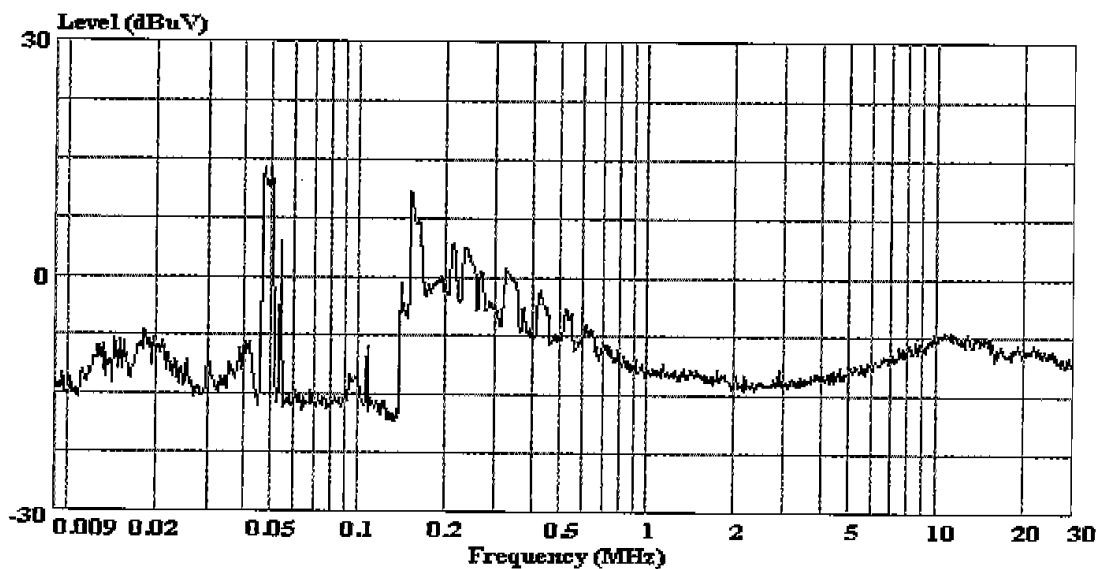
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Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE23 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : C
Test Mode : ON
Test Engineer: Jimbo



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Date: 2001-10-13 Time: 15:10:20



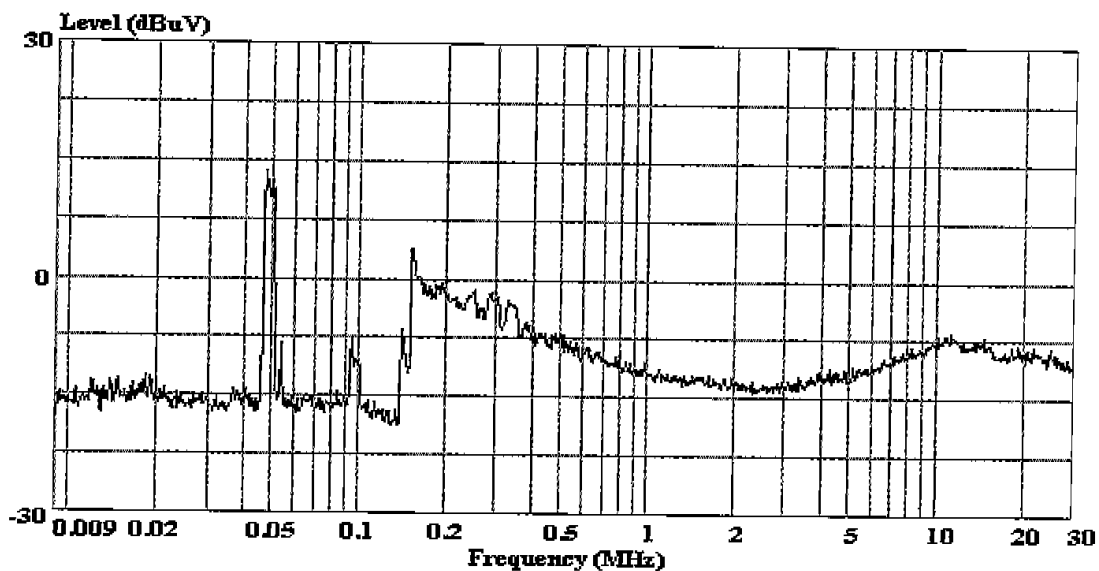
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Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE23 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%RH
Test Line : A
Test Mode : ON
Test Engineer: Jimhsu



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Data#: 825 File#: D:\EMIVM\TEST\S\sunligh1.emi

Date: 2001-10-13 Time: 15:19:22



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Group Co.,Ltd.
EUT : Energy Saving Lamp
M/N : FE23 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%RH
Test Line : B
Test Mode : ON
Test Engineer: Jim Gu

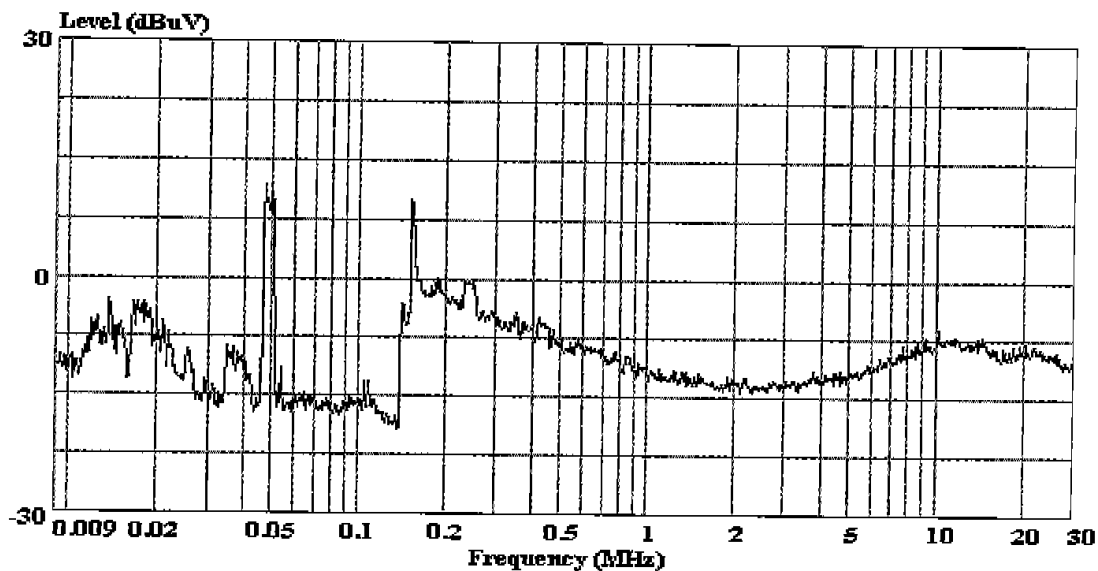


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Date: 2001-10-13 Time: 15:23:17



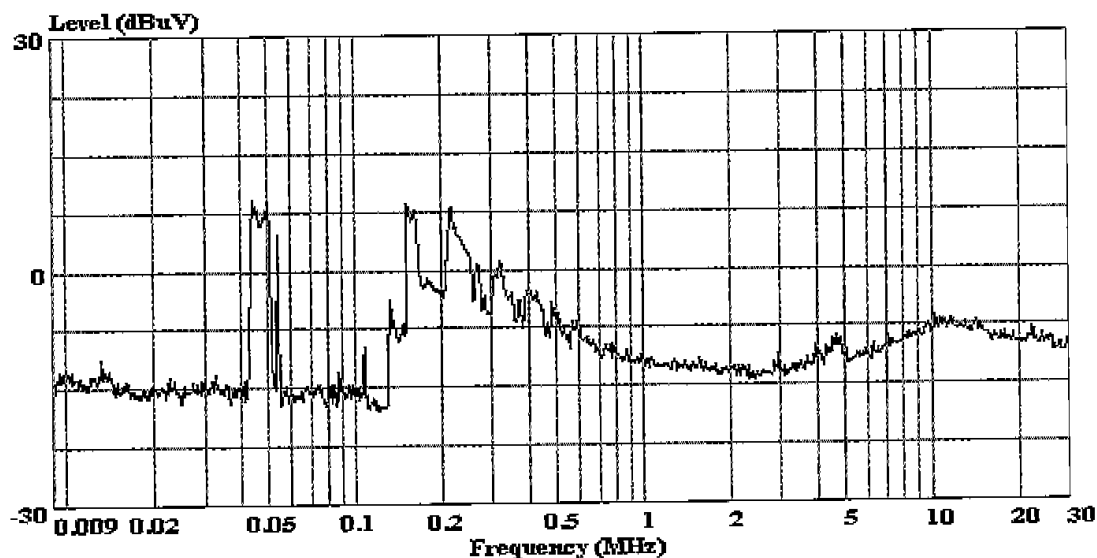
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Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Group Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE23 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : C
Test Mode : ON
Test Engineer: Jimhu



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Data#: 425 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 12:02:36



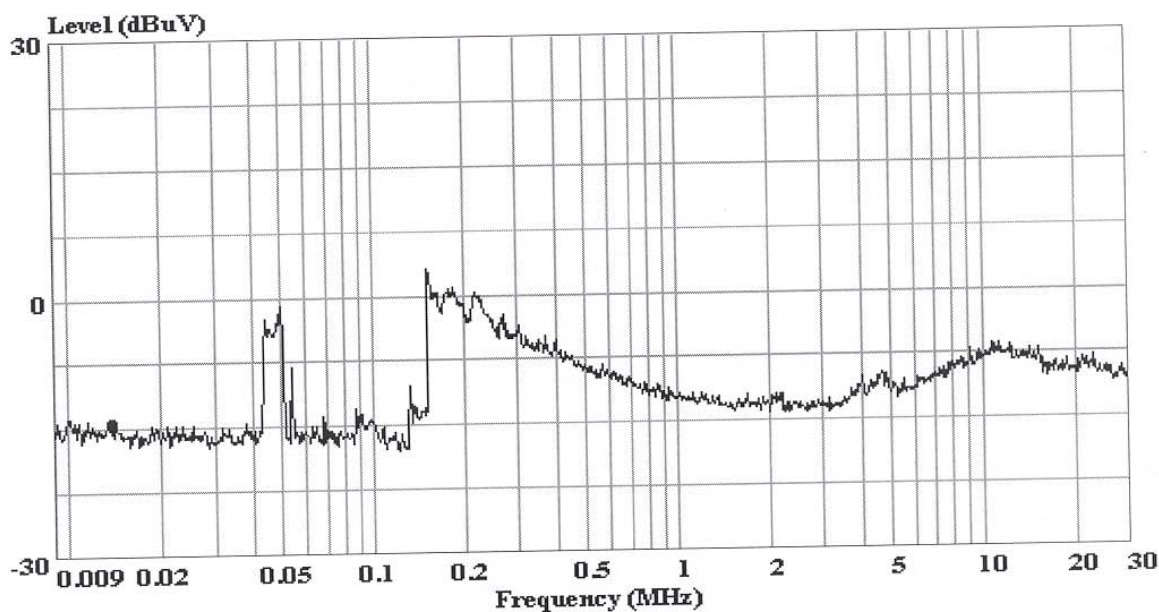
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Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE24 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: Jimhu

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Data#: 422 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 11:58:49



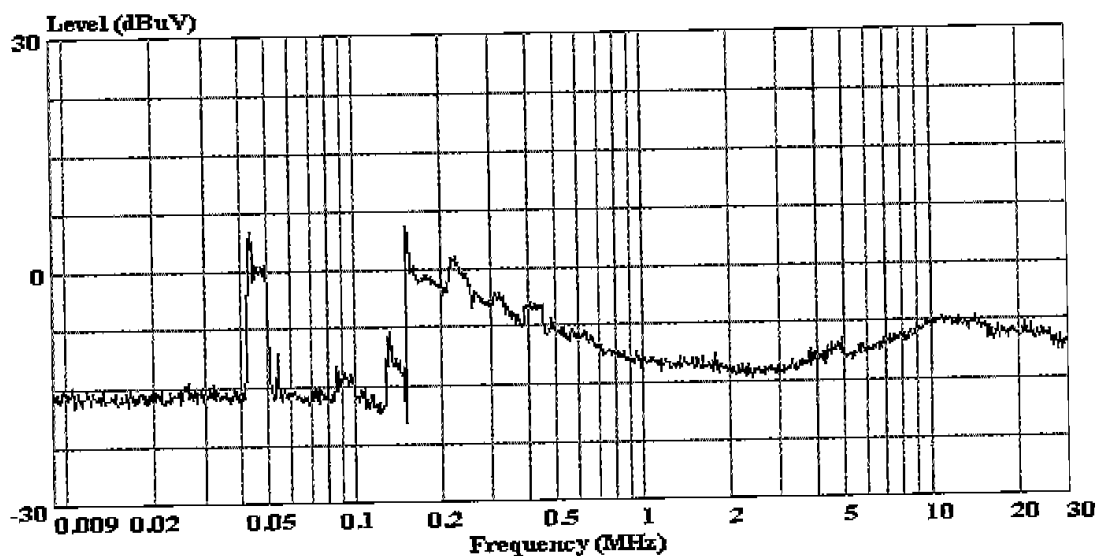
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE24 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: *Jim h*



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Data#: 39 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-15 Time: 11:50:23



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE24 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : C
Test Mode : ON
Test Engineer: *Jimbo*

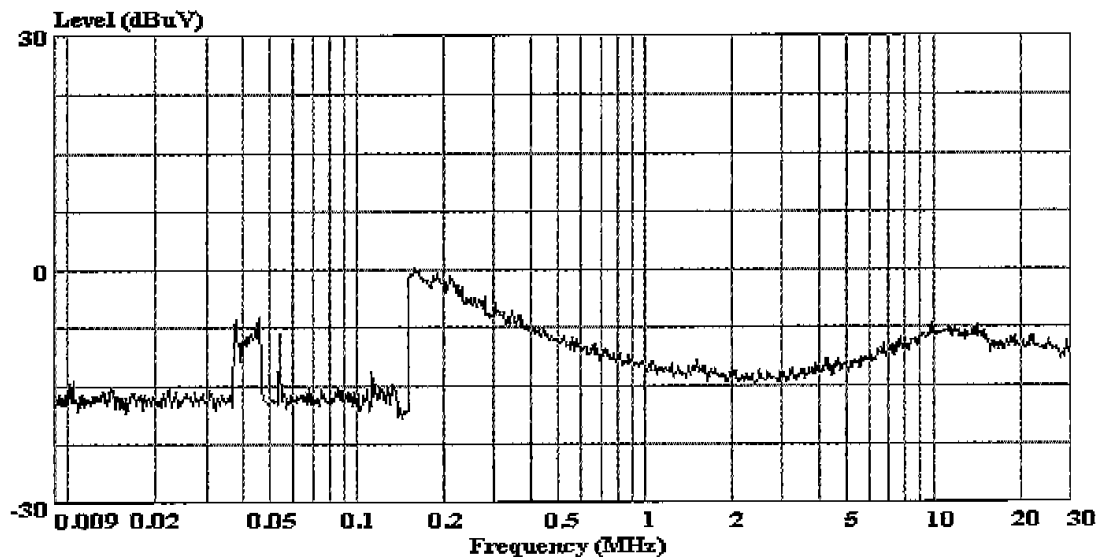


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Data#: 484 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 18:48:02



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE24 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: Jinhua

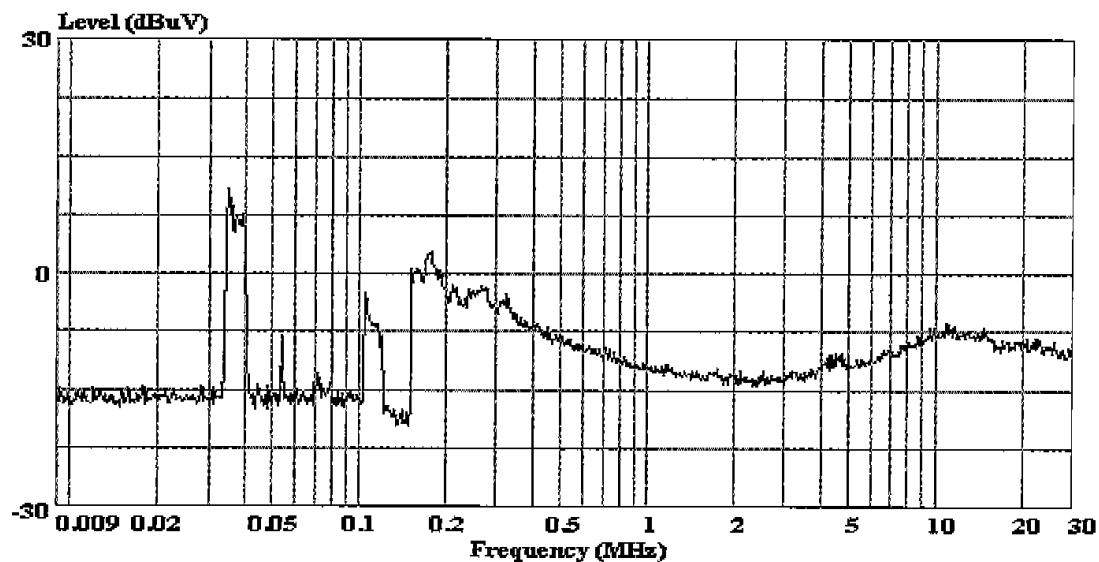


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Data#: 33 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-15 Time: 11:39:05



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE24 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : B
Test Mode : ON
Test Engineer: Jimhsu

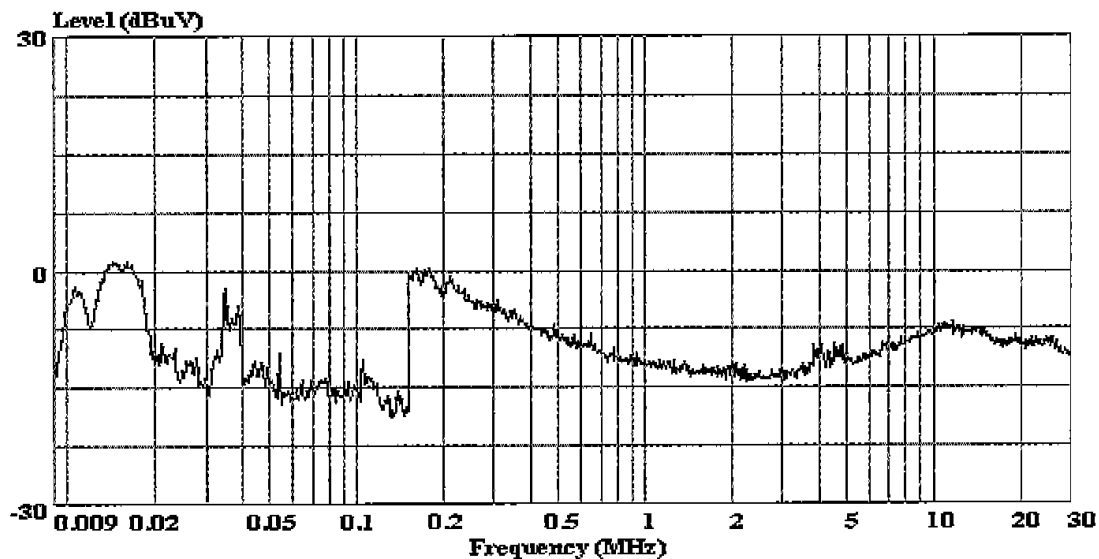


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Data#: 30 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-15 Time: 09:24:41



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE24 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : C
Test Mode : ON
Test Engineer: Jimhu

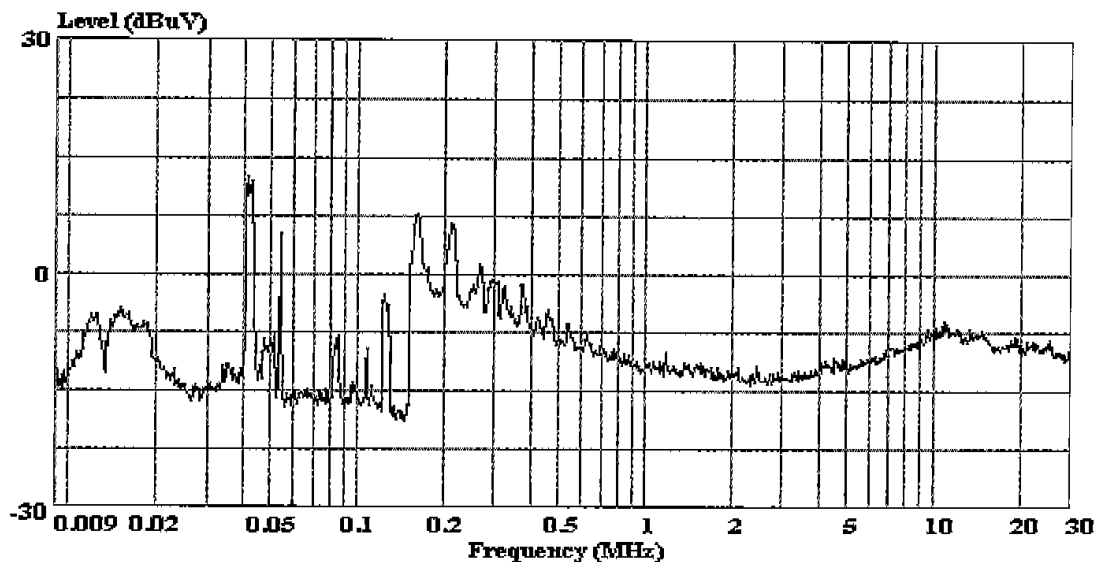


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Data#: 21 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-15 Time: 09:01:24



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE24 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : A
Test Mode : ON
Test Engineer: Jimhan

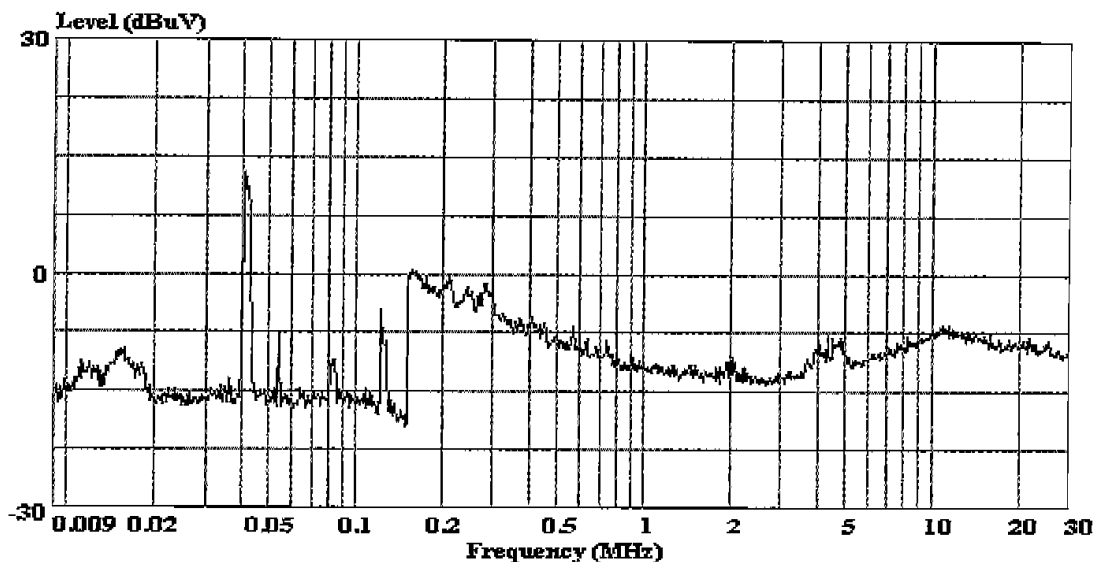


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audixaci@8848.net

Data#: 24 File#: D:\EMI\TEST\S\sunligh.emi

Date: 2001-10-15 Time: 09:11:42



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE24 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : B
Test Mode : ON
Test Engineer: *Jimbo*

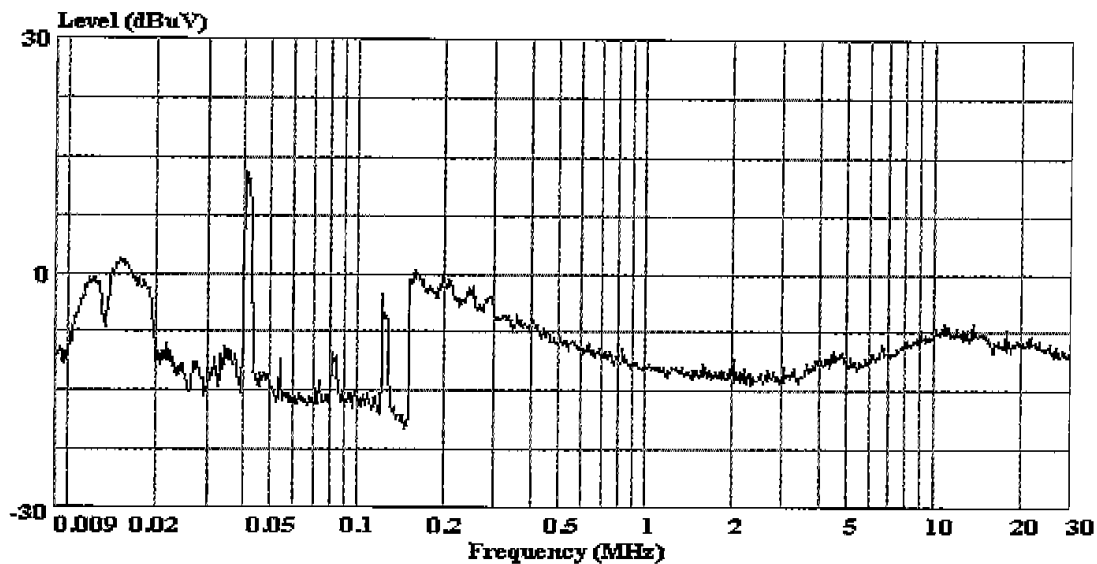


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Fax:+86-21-64955491
audixaci@8848.net

Data#: 27 File#: D:\EMIVM\TEST\S\sunligh.emi

Date: 2001-10-15 Time: 09:18:33



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE24 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%RH
Test Line : C
Test Mode : ON
Test Engineer: Jimbo

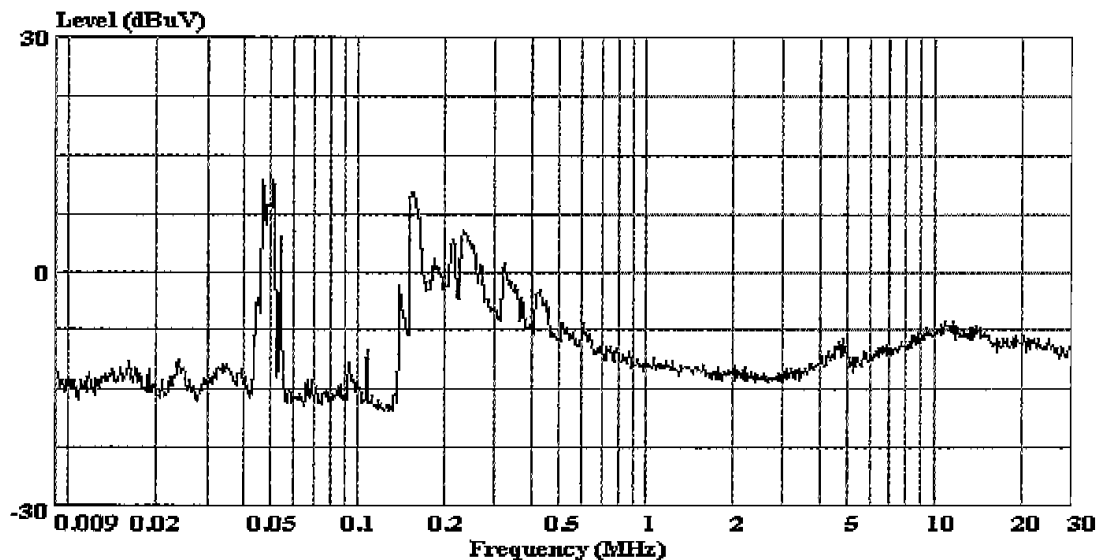


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audixaci@8848.net

Data#: 428 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 12:07:11



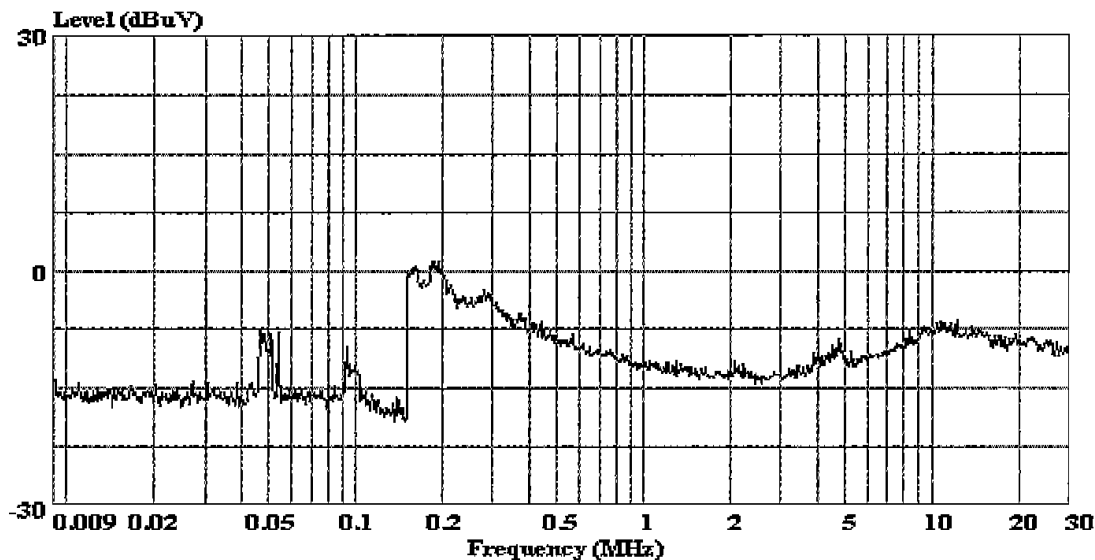
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE25 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: Jimba



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audixaci@8848.net

Data#: 431 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 12:15:31



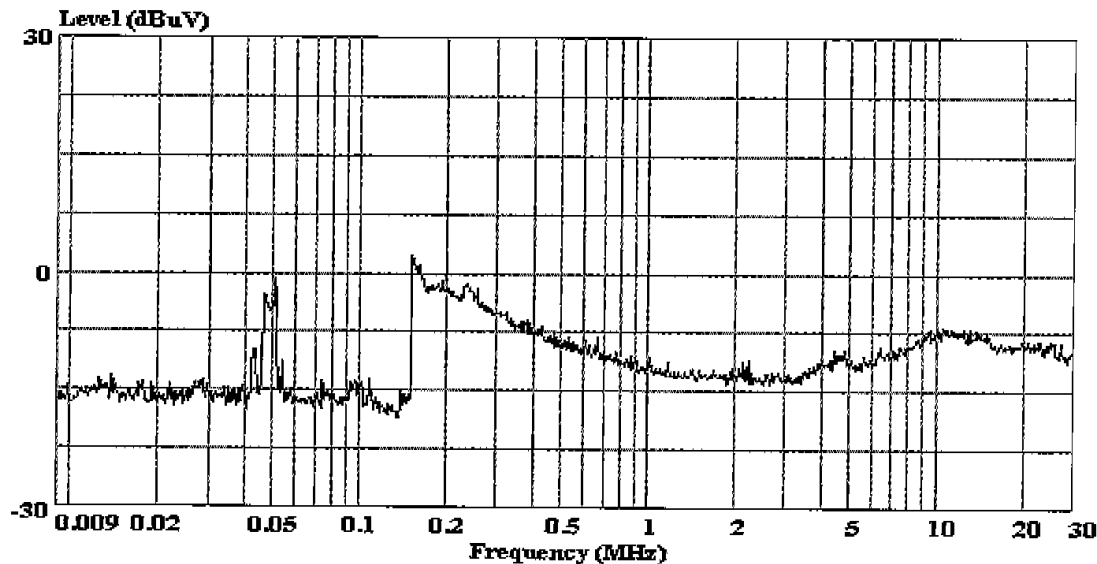
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co.,Ltd.
EUT : Energy Saving Lamp
M/N : FE25 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: Jimhsu



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

Data#: 434 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 12:21:34



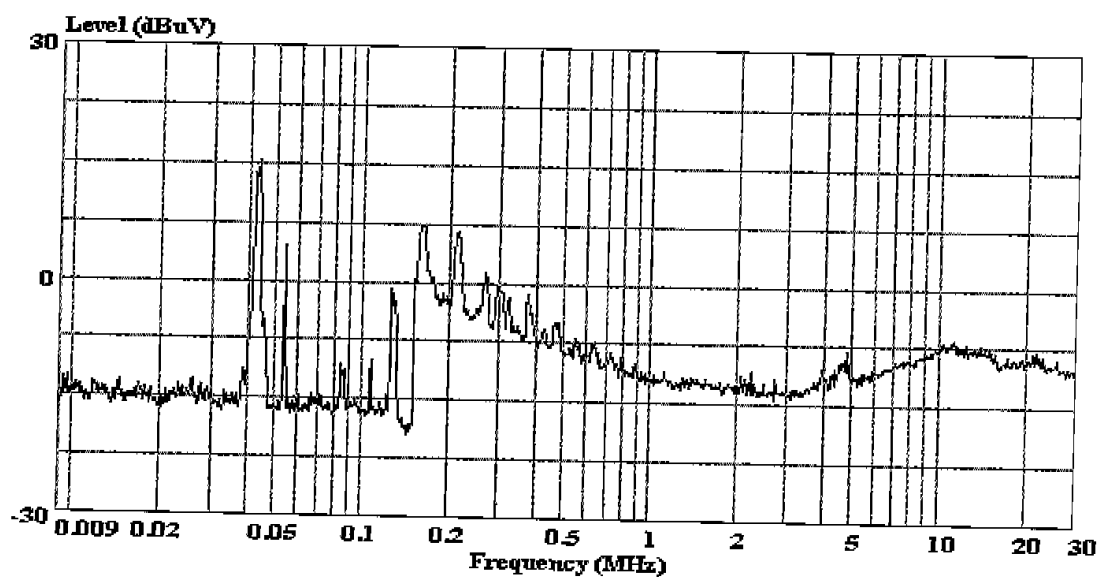
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE25 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: Jimhu

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audixaci@8848.net

Data#: 445 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 12:35:34



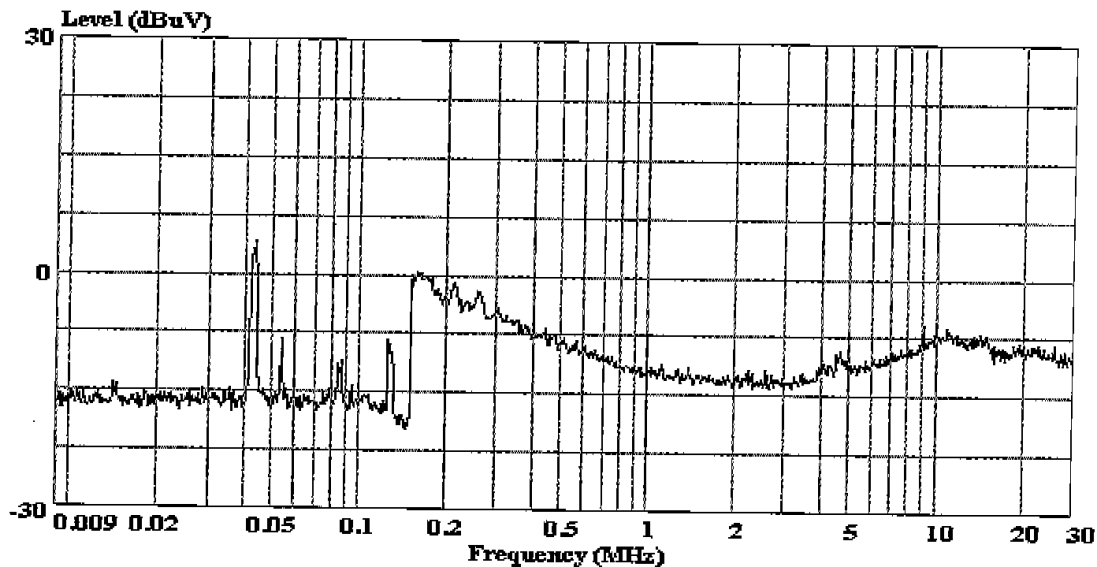
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE25 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: Jimhsu



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Data#: 446 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 12:32:22



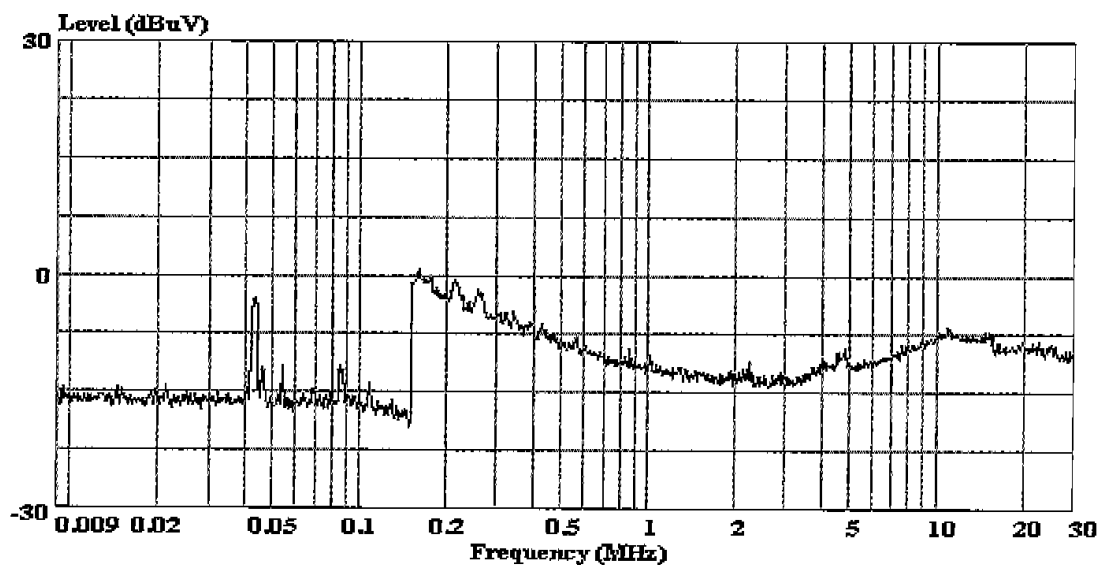
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE25 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : B
Test Mode : ON
Test Engineer: Jimhu



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Data#: 447 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 12:26:25



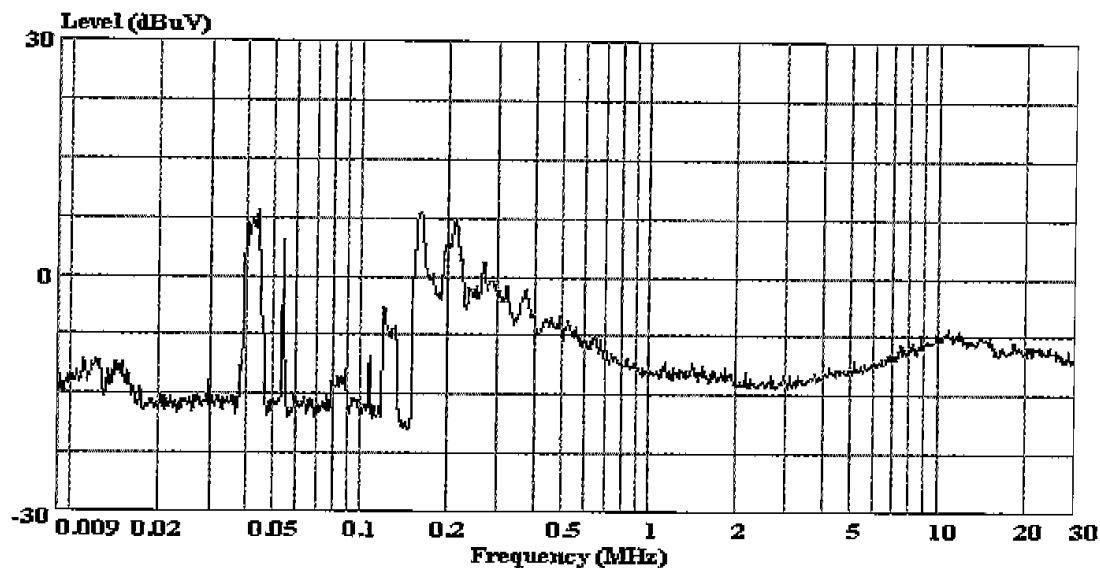
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE25 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : C
Test Mode : ON
Test Engineer: Jimhsu



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Data#: 450 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 17:36:49



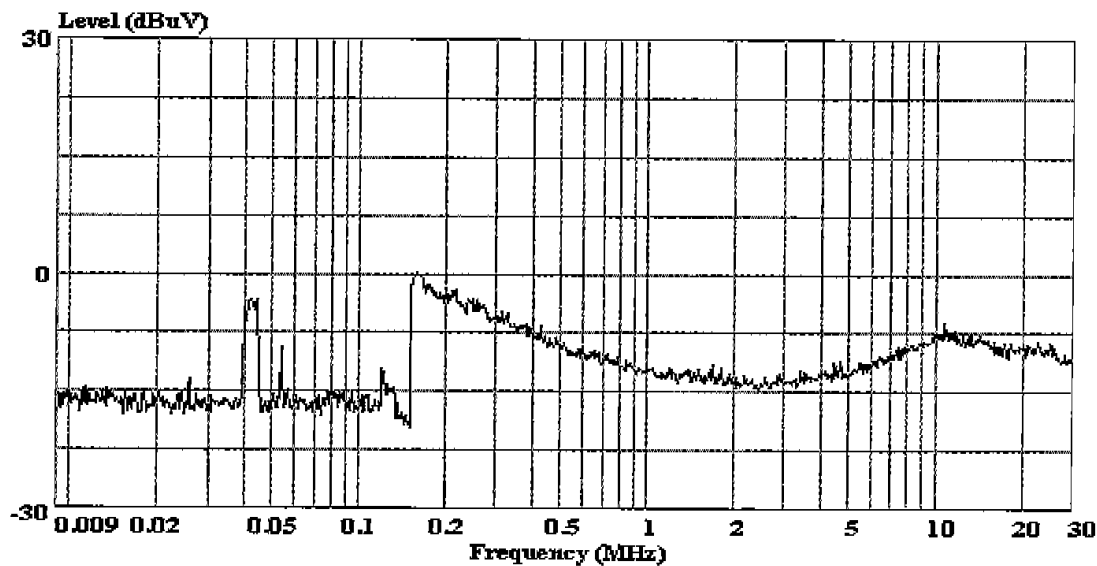
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co.,Ltd.
EUT : Energy Saving Lamp
M/N : FE25 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: Jimhsu



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Data#: 453 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 17:42:08



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE25 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : B
Test Mode : ON
Test Engineer: Jimhu

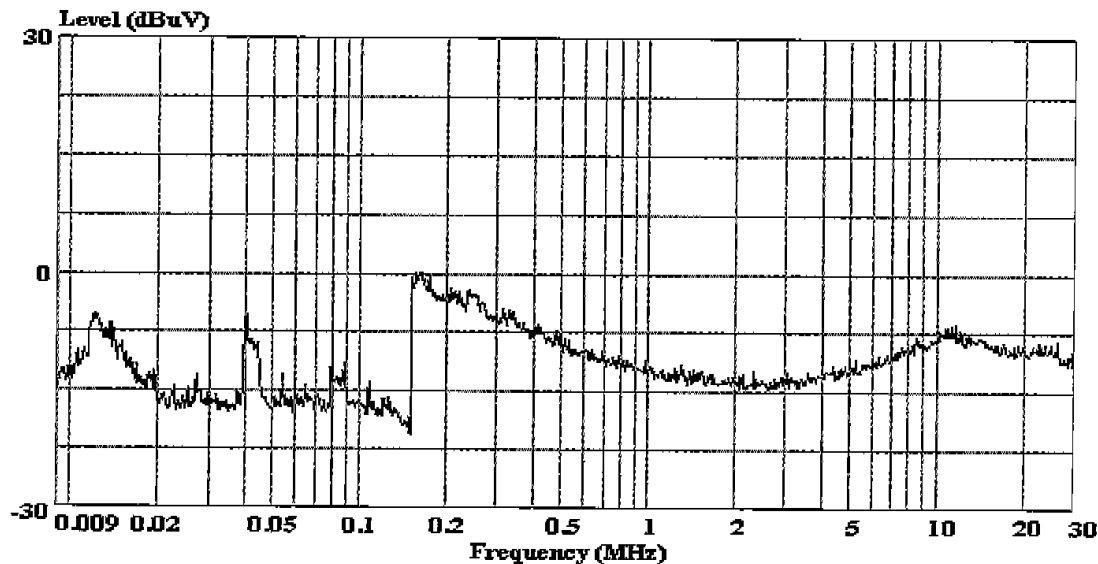


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Data#: 456 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 17:48:25



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE25 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Jimhu*

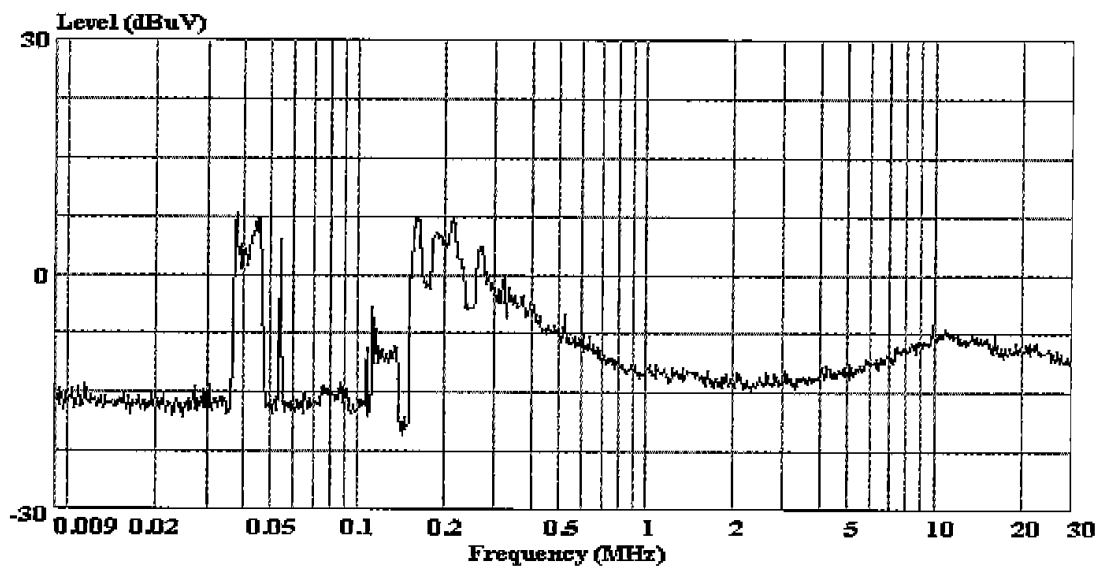


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Data#: 483 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 18:51:23



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE35 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : A
Test Mode : ON
Test Engineer: Jimhsu

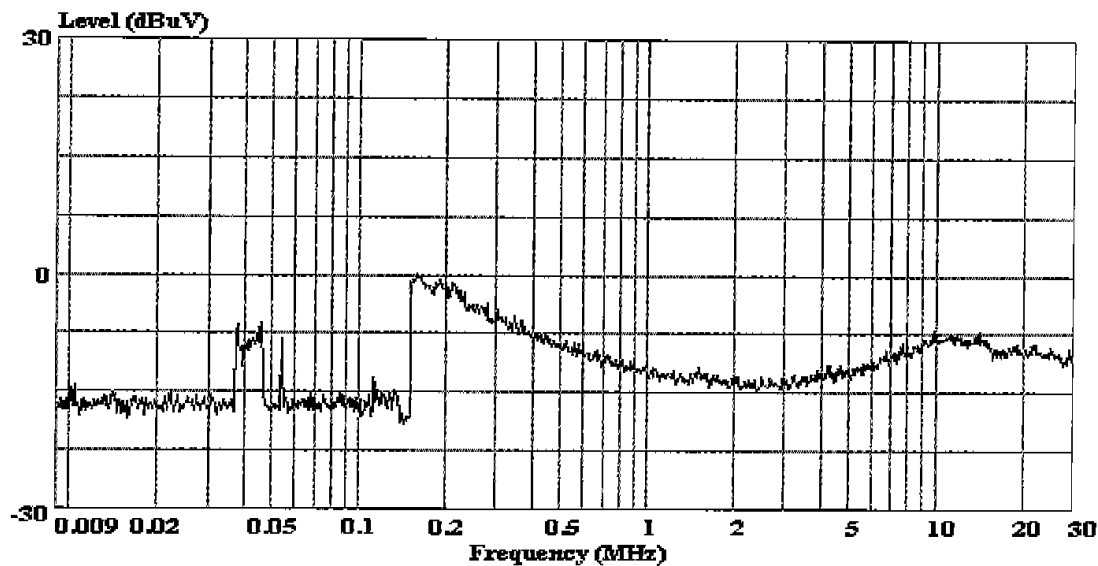


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Data#: 480 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 18:48:02



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE35 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: Jimhsu

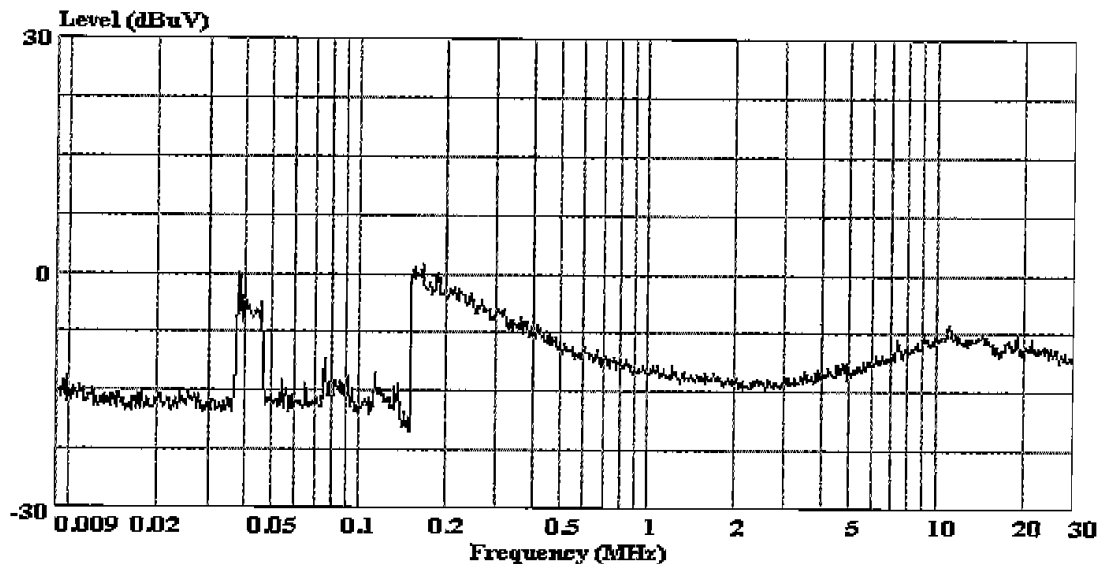


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Data#: 477 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 18:31:24



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FB35 15W
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Jimhu*

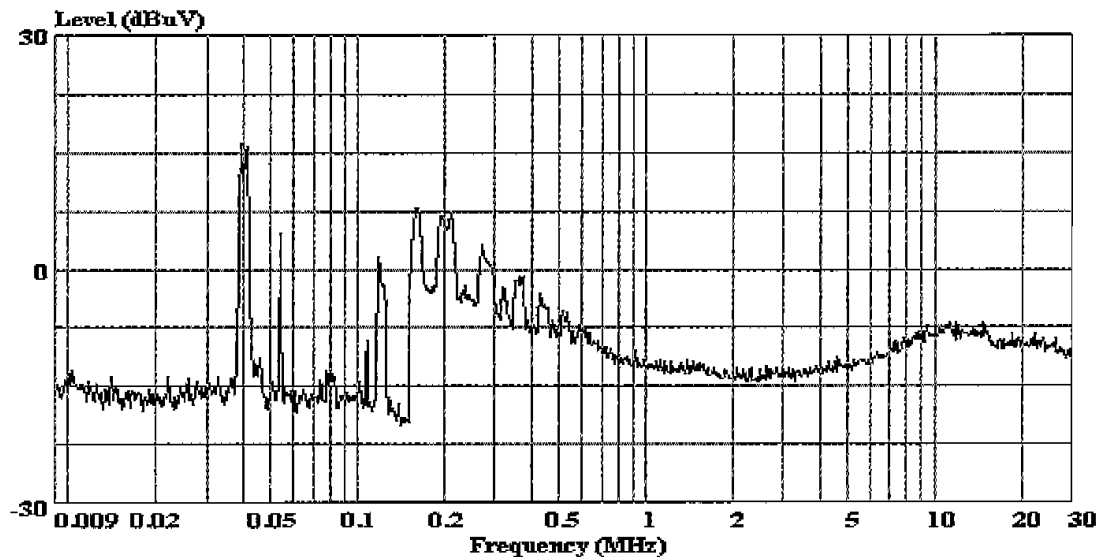


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Data#: 468 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 18:10:02



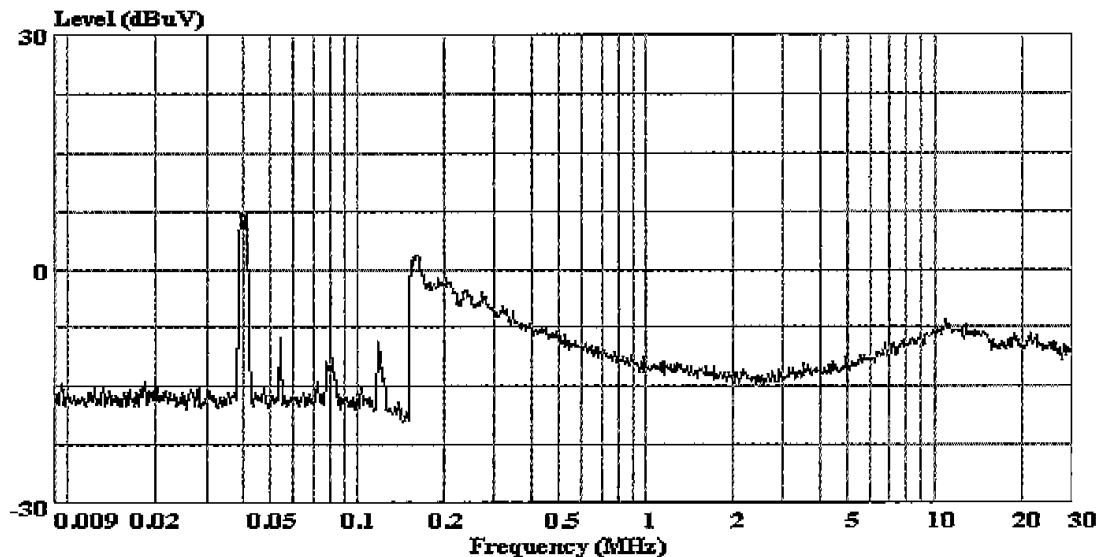
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE35 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : A
Test Mode : ON
Test Engineer: Jimhu

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Data#: 471 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 18:17:54



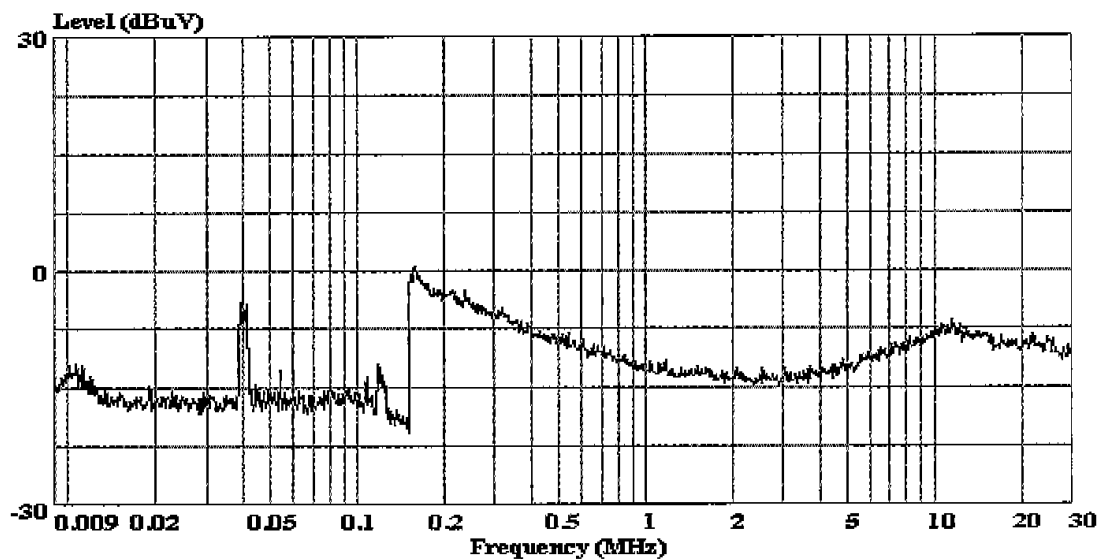
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE35 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: Jimba

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Data#: 474 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 18:26:40



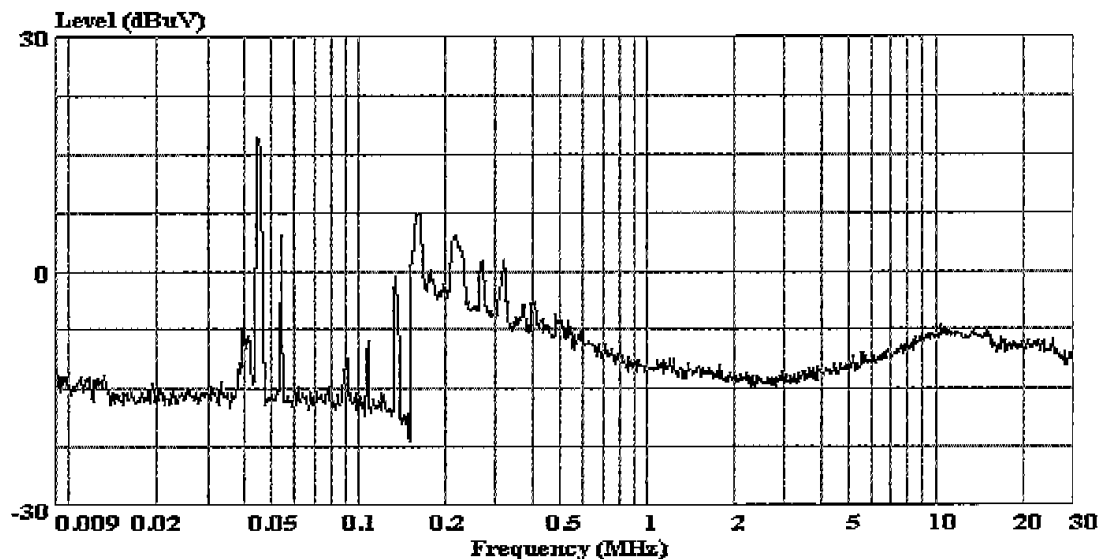
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE35 20W
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Jim han*



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Data#: 465 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 18:03:41



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE35 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Line : A
Test Mode : ON
Test Engineer: Jimhsu

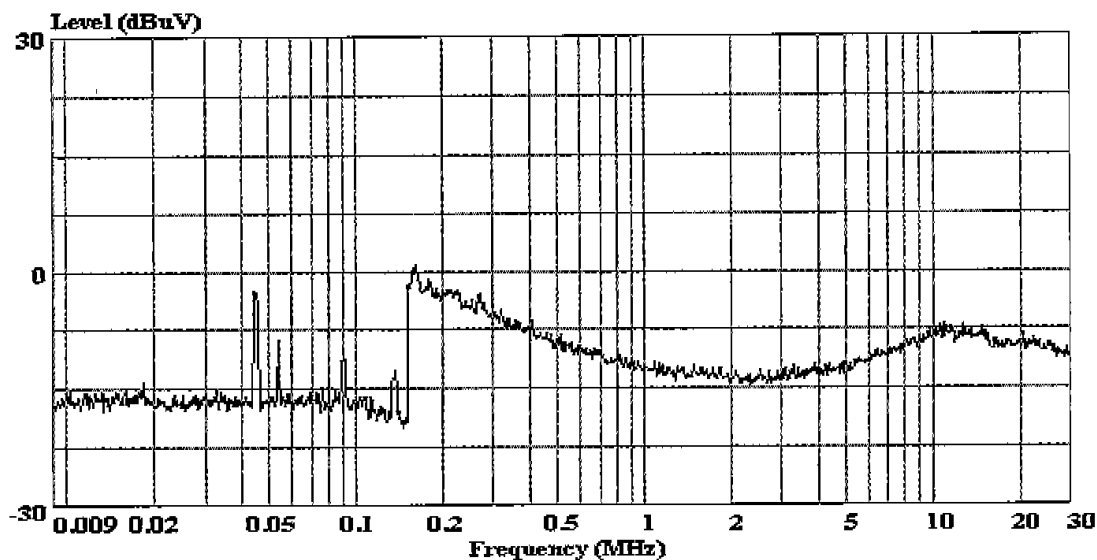


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Data#: 462 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 17:59:34



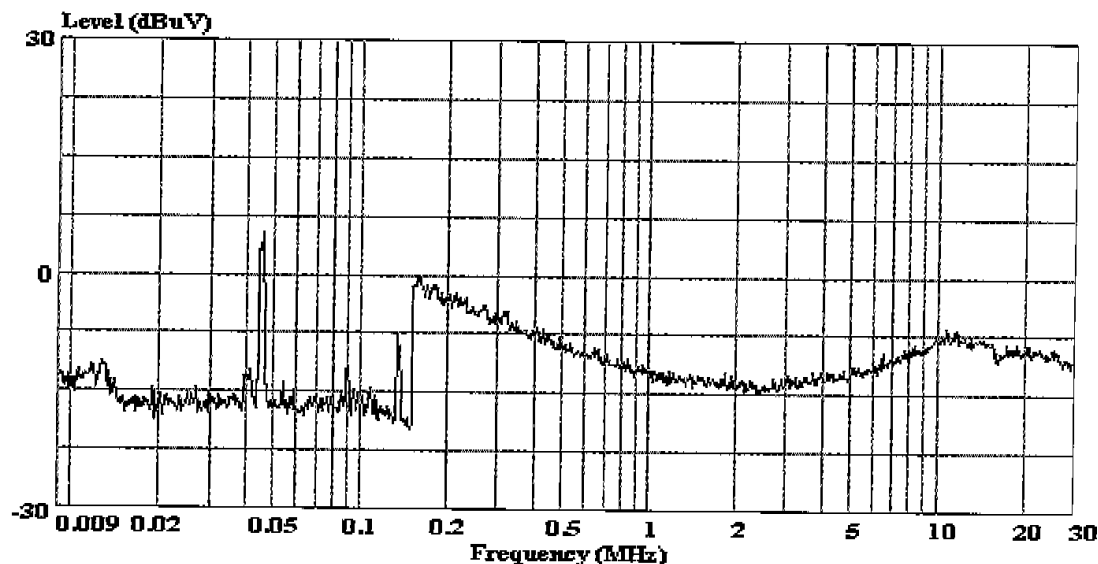
Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE35 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : B
Test Mode : ON
Test Engineer: Jimhu



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Data#: 459 File#: D:\EMIVM\TEST\S\SUNLIGHT.emi

Date: 2001-10-15 Time: 17:56:25



Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000120
Applicant : Zhejiang Yankon Co., Ltd.
EUT : Energy Saving Lamp
M/N : FE35 26W(25W)
S/N :
Power Supply : 120V/60Hz
Ambient : 23°C 53%
Test Line : C
Test Mode : ON
Test Engineer: *Jim*

4 DEVIATION TO TEST SPECIFICATIONS

[NONE]