ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
UNINTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 18 REQUIREMENT

for

CFLs

M/N: GYT2U07A/L, GYT2U08A/L

FCC ID: VGZ2U07-08A

Trade Name: Not Applicable

Report No.: SHEE080331259301-08

Issue Date: Sept. 24, 2008

Prepared for

JIANGXI ELEGANT LIGHTING CO LTD
No. 713, Xihou St., Guixi, Jiangxi, China
TEL: 86-701-377 1030
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Prepared by

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1F., BUILDING C, HONGWEI INDUSTRIAL ZONE,
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1. General Information

Applicant:	JIANGXI ELEGANT LIGHTING CO LTD No. 713, Xihou St., Guixi, Jiangxi, China
Manufacturer:	JIANGXI ELEGANT LIGHTING CO LTD No. 713, Xihou St., Guixi, Jiangxi, China
Trade Name:	Not Applicable
Product Name :	CFLs
M/N:	GYT2U07A/L, GYT2U08A/L
Report No.:	SHEE080331259301-08
Date of Test:	Apr. 01, 2008 to Aug. 31, 2008

We hereby certify that:

The above equipment was tested by Centre Testing International (CTI), The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 18.

The test results of this report relate only to the tested sample identified in this report.

Prepared by : Lily Yan

Inspected by : Christy Chen

Approved by: Jacky Guo
General Manager

Date : Oct. 30, 2008

2. Product Information

Product name:	CFLs
Model name:	GYT2U07A/L, GYT2U08A/L
Trade name:	Not Applicable
Technical data:	input voltage: AC120 V/60Hz GYT2U07A/L: A lamp 7W, AC 120V/60 Hz GYT2U08A/L: A lamp 8W, AC 120V/60 Hz
Model difference:	The models GYT2U07A/L and GYT2U08A/L are identical in schematic, PCB layout and appearance except the rated power. Both of the models are tested conducted emission, and GYT2U07A/L is tested radiated emission..
Function:	Lighting

3. Test Methodology

Both conducted and radiated tests were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at a distance 3 meters from the antenna to EUT.

4. Test Facility

The 3m Semi-Anechoic chamber test site and conducted measurement facility used to collect the radiated data is located on the address:
1F., Building C, Hongwei Industrial Zone 70 District., Baoan, Shenzhen, Guangdong, China.
The Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 requirements. The test site Registration Number: 614926

5. Special Accessories

Not available for this EUT intended for grant.

6. Equipment Modifications

Not available for this EUT intended for grant.

7. Test Condition

7.1 Test Configuration

The device was configured for testing in a typical fashion (as a customer would normally use it). During the tests, the EUT and the supported equipments were installed to meet FCC requirement and operated in a manner which tends to maximize its emission level in a typical application.

7.2 Test Procedure

Conducted Emissions:
The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

Radiated Emissions:
The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.

7.3 EUT operation

EUT was tested according to the following operation modes provided by the specifications given by the manufacturer, and reported the worst emissions.

7.4 Peripherals / Support Equipment Used

Following peripheral devices and interface cables were connected during the measurement:

Type of Peripheral Equipment Used: None

Type of Cables Used: None

7.5 Limit

Conducted Emission:

According to section 18.307(c) Conducted Emission Limits is as following:

Frequency (MHz)	Maximum RF Line Voltage Q.P.(dBuV)
0.45-2.51	48
2.51-3.0	69.5
3.0-30	48

Radiated Emission:

According to section 18.305(c) Radiated Emission Limits is as following:

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m Q.P.)
30-88	3	40.0
88-216	3	43.5
216-1000	3	46.0

Remark:
1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

8. Summary of Test Results

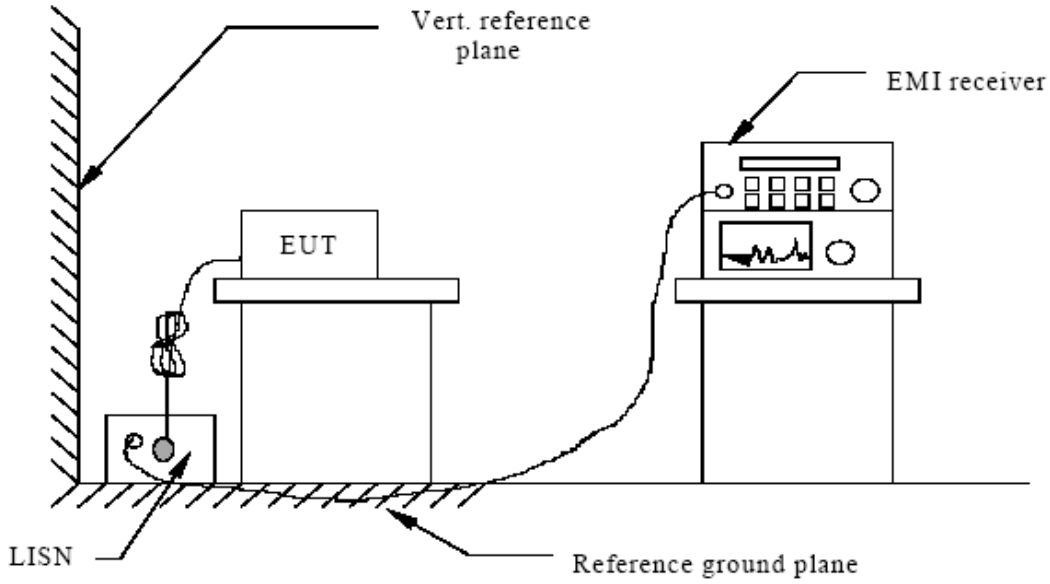
FCC Rules	Description Of Test	Result
§18.307(c)	Conducted Emission	Compliant
§18.305(c)	Radiated Emission	Compliant

9. Conducted Emissions Test

9.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane, connected to the LISN, and worked normally during the whole test.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. If the EUT emission level was less –6dB to the Q.P. limit in Peak mode, then the emission signal was re-checked using Q.P. detector.
4. Repeat above procedures until all frequencies measured were completed.

9.2 Test Set-up (Block Diagram of Configuration)



9.3 Measurement Equipment Used

Equipment Type	Manufacturer	Model Number	Serial Number	Last Calibration	Calibration Due
Receiver	R&S	ESCI	100435	01/29/2008	01/28/2009
LISN	ETS	3816	00060336	06/07/2008	06/06/2009

9.4 Measurement Results

Limit : FCC Part 18 Conduction
EUT : CFLs
M/N : See belows
Mode : Normal

Power : AC 120V/60HZ
Temperature : 24℃
Humidity : 53%
Tested by : Lily Yan

M/N : GYT2U07A/L

FCC Conducted Emission Test Result													
Frequency (MHz)	Reading Level (dBuV)			Correct Factor (dB)	Measurement (dBuV)			Limits (dBuV)		Margin		Result (P/F)	Remarks (L/N)
	Peak	Q.P.	Avg.		Peak	Q.P.	Avg.	Q.P.	Avg.	Q.P.	Avg.		
0.5300	19.71	15.80	--	21.56	41.27	37.36	--	48.00	--	-10.64	--	P	L
0.9900	18.85	9.56	--	21.54	40.39	31.10	--	48.00	--	-16.90	--	P	L
1.0220	19.12	10.71	--	21.53	40.65	32.24	--	48.00	--	-15.76	--	P	L
1.2500	19.56	12.18	--	21.39	40.95	33.57	--	48.00	--	-14.43	--	P	L
1.4620	21.69	15.02	--	21.26	42.95	36.28	--	48.00	--	-11.72	--	P	L
1.6700	24.03	21.24	--	21.13	45.16	42.37	--	48.00	--	-5.63	--	P	L
0.4580	13.90	9.04	--	21.62	35.52	30.66	--	48.00	--	-17.34	--	P	N
0.5740	10.99	3.14	--	21.54	32.53	24.68	--	48.00	--	-23.32	--	P	N
0.7300	13.47	7.69	--	21.53	35.00	29.22	--	48.00	--	-18.78	--	P	N
0.9900	13.02	8.55	--	21.54	34.56	30.09	--	48.00	--	-17.91	--	P	N
1.2180	17.12	10.55	--	21.41	38.53	31.96	--	48.00	--	-16.04	--	P	N
1.6980	24.89	22.41	--	21.11	46.00	43.52	--	48.00	--	-4.48	--	P	N

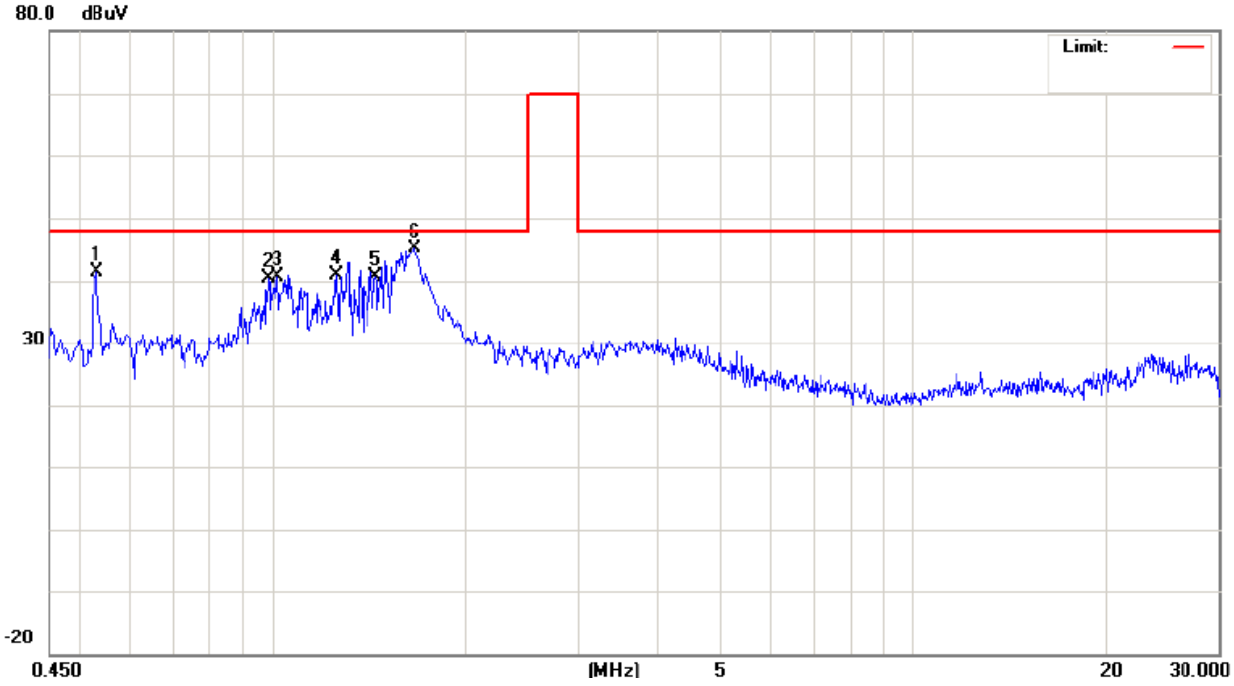
M/N : GYT2U08A/L

FCC Conducted Emission Test Result													
Frequency (MHz)	Reading Level (dBuV)			Correct Factor (dB)	Measurement (dBuV)			Limits (dBuV)		Margin		Result (P/F)	Remarks (L/N)
	Peak	Q.P.	Avg.		Peak	Q.P.	Avg.	Q.P.	Avg.	Q.P.	Avg.		
1.1760	17.01	9.32	--	21.43	38.44	30.75	--	48.00	--	-17.25	--	P	L
1.2360	18.50	4.96	--	21.40	39.90	26.36	--	48.00	--	-21.64	--	P	L
1.3940	21.41	10.90	--	21.30	42.71	32.20	--	48.00	--	-15.80	--	P	L
1.5200	22.87	18.96	--	21.22	44.09	40.18	--	48.00	--	-7.82	--	P	L
1.5640	20.08	22.08	--	21.20	41.28	43.28	--	48.00	--	-4.72	--	P	L
1.6780	25.24	21.53	--	21.13	46.37	42.66	--	48.00	--	-5.34	--	P	L
0.4500	14.97	9.81	--	21.62	36.59	31.43	--	48.00	--	-16.57	--	P	N
0.6340	13.31	10.94	--	21.53	34.84	32.47	--	48.00	--	-15.53	--	P	N
1.4860	22.25	16.29	--	21.24	43.49	37.53	--	48.00	--	-10.47	--	P	N
1.5300	17.34	18.10	--	21.22	38.56	39.32	--	48.00	--	-8.68	--	P	N
1.6380	21.83	19.03	--	21.15	42.98	40.18	--	48.00	--	-7.82	--	P	N
3.3320	18.73	18.18	--	20.38	39.11	38.56	--	48.00	--	-9.44	--	P	N

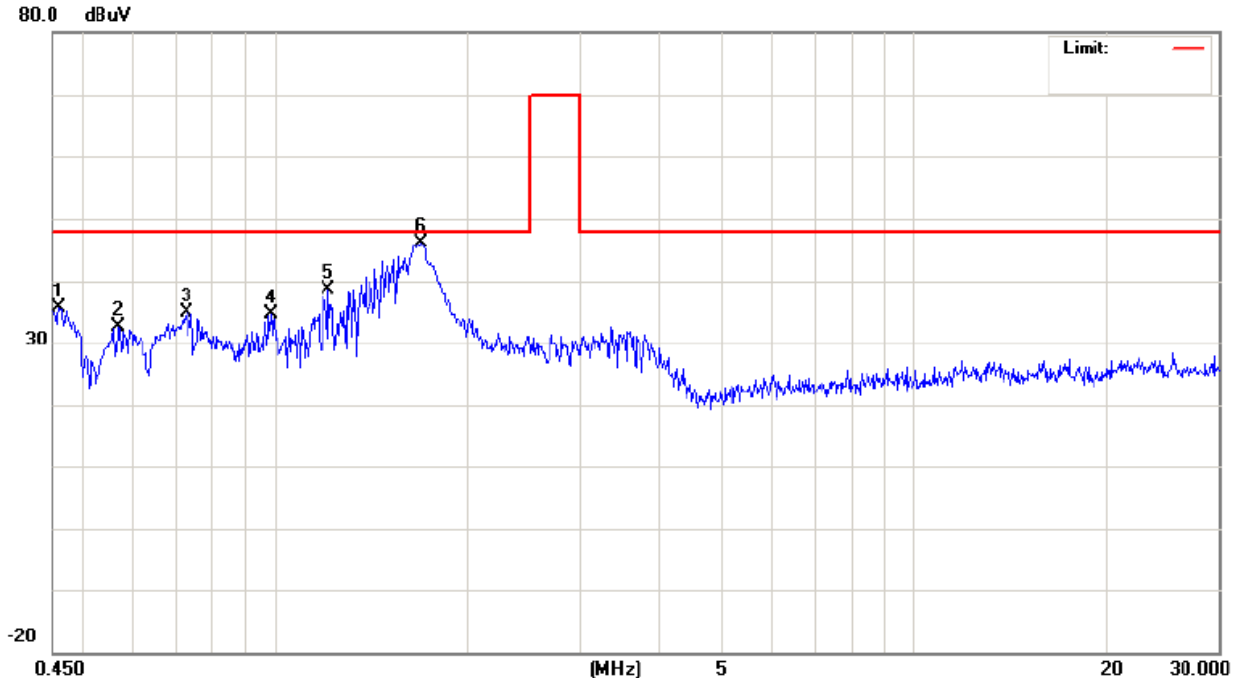
Freq. = Emission frequency in MHz
Reading level = Uncorrected Analyzer/Receiver reading
Factor = Cable loss + insertion loss
Emission level = Reading level + Factor
Limit = Limit stated in standard
Margin = Reading in reference to limit

Graph of Conducted Emissions:

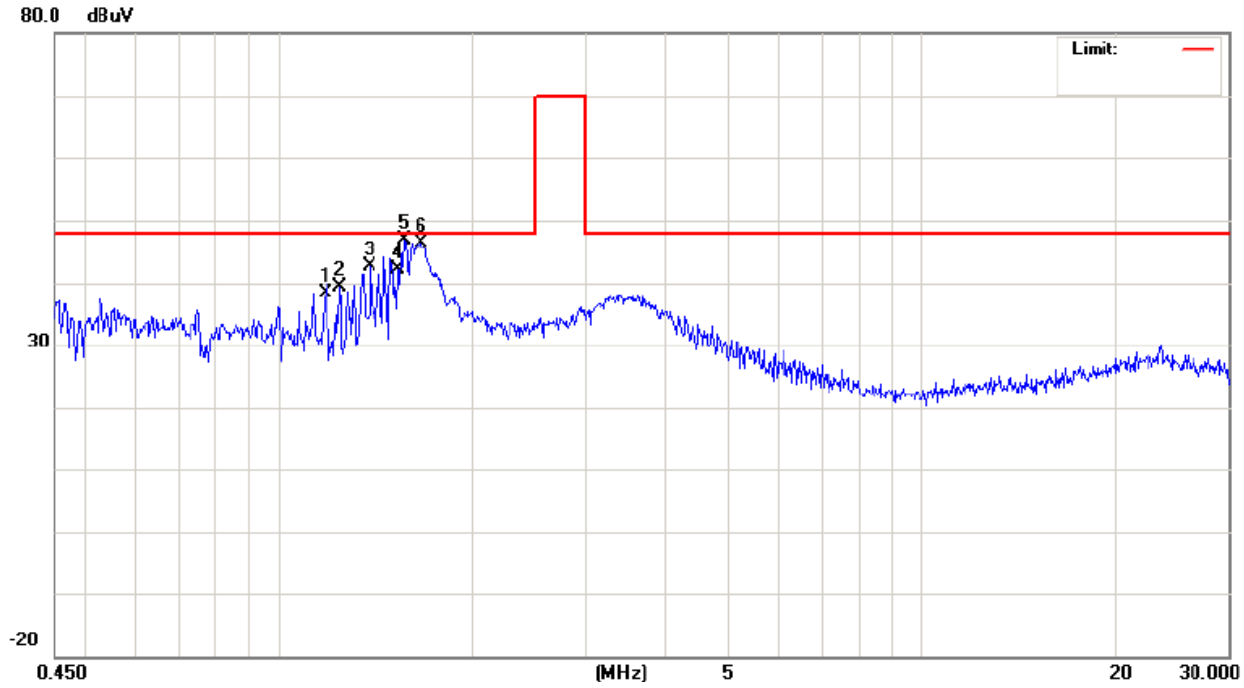
L: (normal Mode for GYT2U07A/L)



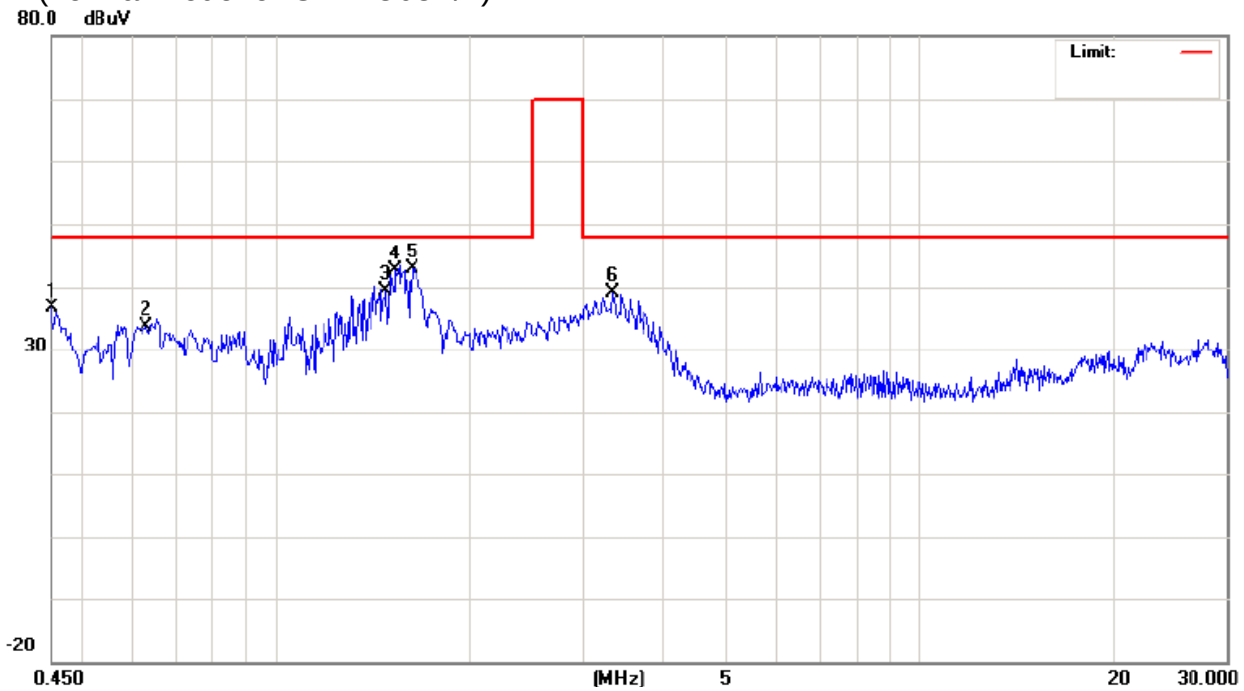
N: (normal Mode for GYT2U07A/L)



L: (normal Mode for GYT2U08A/L)



N: (normal Mode for GYT2U08A/L)



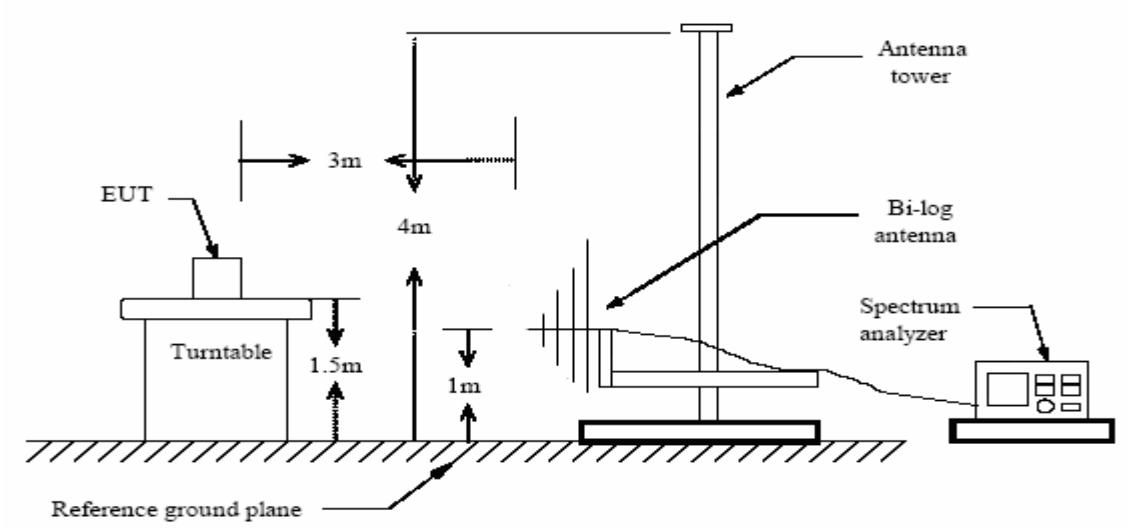
10. Radiated Emission Test

10.1 Measurement Procedure

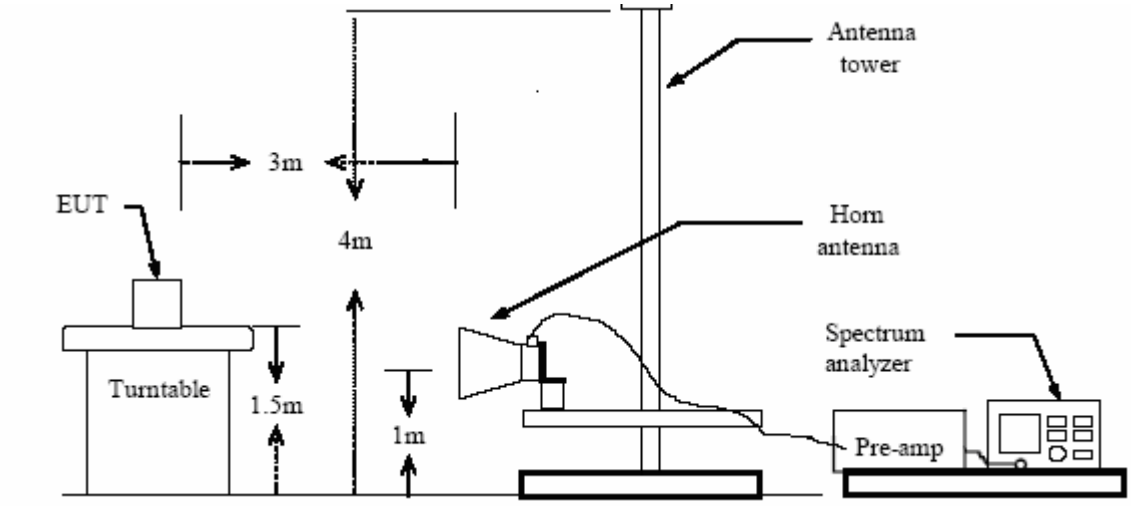
1. The EUT was placed on a turn table which is 0.8m above ground plane, and worked normally during the whole test.
2. Maximum procedure was performed on the twelve highest emissions to ensure EUT compliance.
3. If the EUT emission level was less –6dB to the Q.P. limit in Peak mode, then the emission signal was re-checked using Q.P. detector.
4. Repeat above procedures until all frequencies measured were completed.

10.2 Test Set-up (Block Diagram of Configuration)

A. Radiated Emission Test Set-Up, Frequency below 1000MHz



B. Radiated Emission Test Set-Up, Frequency above 1000MHz



10.3 Measurement Equipment Used

Equipment Type	Manufacturer	Model Number	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	E4443A	MY46185649	06/29/2008	06/28/2009
Biconilog Antenna	ETS	3142C	920250	05/30/2008	05/29/2009
ETS Horn Antenna	ETS	3117	57410	05/30/2008	05/29/2009
Multi device Controller	ETS	2090	00057230	06/07/2008	06/06/2009

10.4 Measurement Results

Limit : FCC Part 18 Radiation
EUT : CFLs
M/N : GYT2U07A/L
Mode : Normal
Power : AC 120V/60Hz
Temperature : 26℃
Humidity : 60%
Tested by : Lily Yan

(The chart below shows the highest readings taken from the final data)

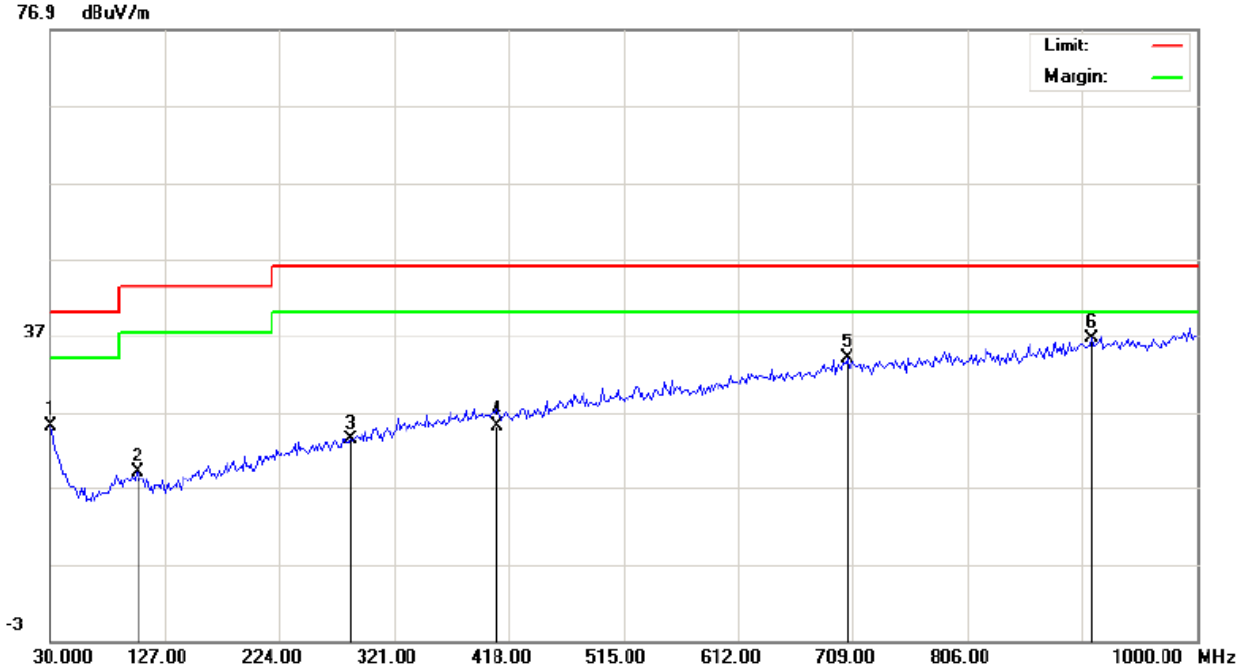
FCC Radiated Emission Test Result													
Frequency (MHz)	Reading Level (dBuv)			Correct Factor (dB)	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)		Result (P/F)	Remarks (H/V)
	Peak	Q.P.	Avg.		Peak	Q.P.	Avg.	Q.P.	Avg.	Q.P.	Avg.		
30.0000	8.52	--	--	17.63	26.15	--	--	40.00	--	<-10	--	P	H
104.3667	8.33	--	--	10.13	18.46	--	--	43.50	--	<-10	--	P	H
283.8167	7.98	--	--	15.16	23.14	--	--	46.00	--	<-10	--	P	H
408.3000	6.62	--	--	18.44	25.06	--	--	46.00	--	<-10	--	P	H
704.1500	9.07	--	--	24.72	33.79	--	--	46.00	--	<-10	--	P	H
911.0833	10.05	--	--	26.77	36.82	--	--	46.00	--	<-6	--	P	H
31.6767	15.44	--	--	16.67	32.11	--	--	40.00	--	<-10	--	P	V
44.5500	13.85	--	--	10.51	24.36	--	--	40.00	--	<-10	--	P	V
76.8833	14.76	--	--	8.64	23.40	--	--	40.00	--	<-10	--	P	V
104.3667	13.20	--	--	10.13	23.33	--	--	43.50	--	<-10	--	P	V
545.7167	11.51	--	--	21.36	32.87	--	--	46.00	--	<-10	--	P	V
930.4833	13.47	9.78	--	26.88	40.35	36.66	--	46.00	--	-9.34	--	P	V

Freq. = Emission frequency in MHz
Raw Data (dBuV/m) = Uncorrected Analyzer / Receiver reading
Corr. Factor (dB) = Correction factors of antenna factor and cable loss
Emiss. Leve = Raw reading converted to dBuV/m and CF added
Limit dBuV/m = Limit stated in standard
Margin dB = Reading in reference to limit
PK = Peak Reading
QP = Quasi-peak

Graph of Radiated Emissions:

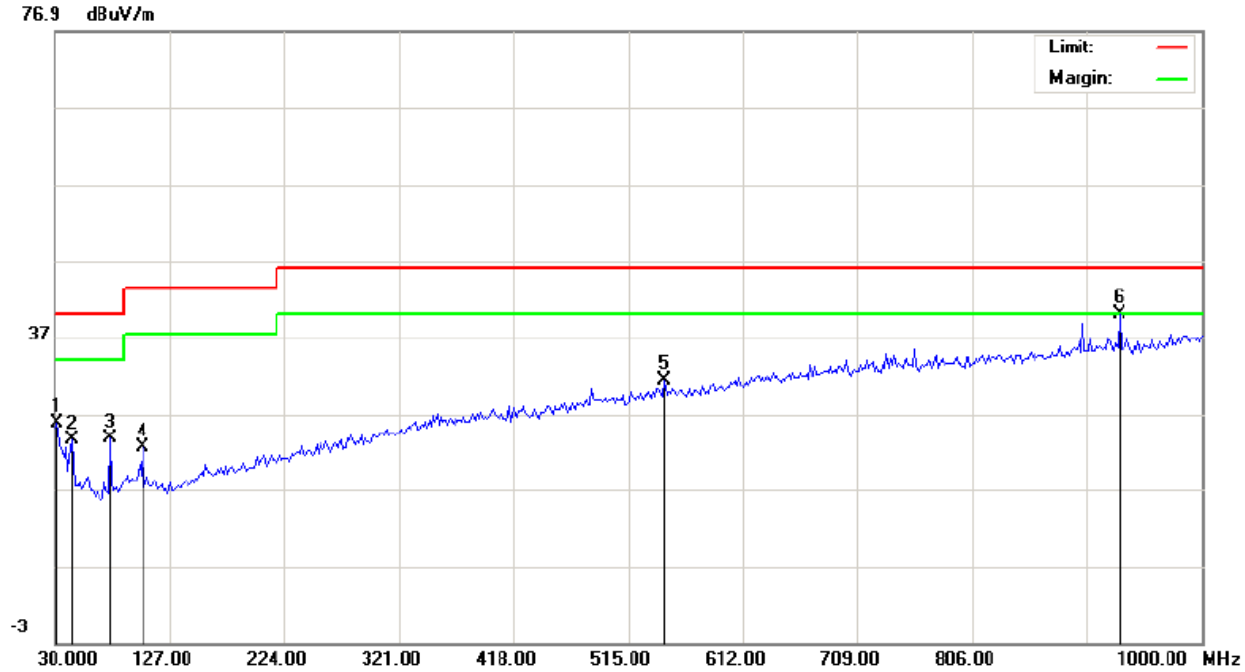
H:(Antenna)

Below 1GHz(normal mode)



V:(Antenna)

Below 1GHz(normal Mode)



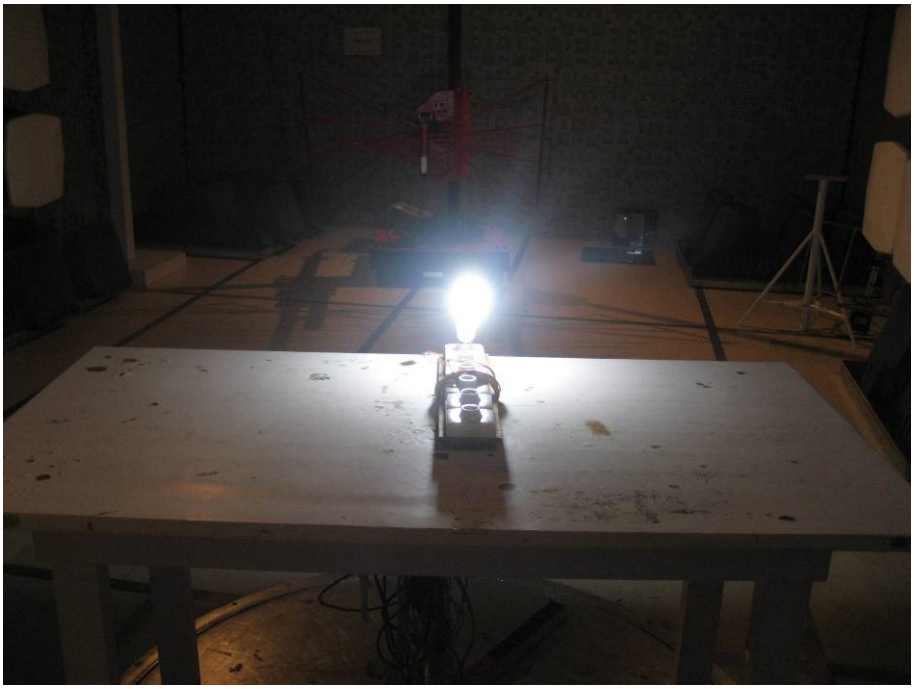
11. Measurement Uncertainty

Conduction Uncertainty : ± 2.8dB
Radiation Uncertainty : ± 3.4dB

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

CONDUCTED EMISSION TEST

RADIATED EMISSION TEST



APPENDIX 2 EXTERNAL PHOTOGRAPHS OF EUT

Whole View of EUT (GYT2U07A/L)

Whole View of EUT (GYT2U08A/L)

----End of the report----