



**CTS (NINGBO) TESTING SERVICE TECHNOLOGY
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC TEST REPORT

TEST REPORT NUMBER : CNB3120425-00627-E



CTS (Ningbo) Testing Service Technology Co., Ltd.

GZ test site; Building F, Dachuang industrial park, No.379, Zhongshan Dadao,
Guangzhou, China.



TEST REPORT FOR FCC ID 47 CFR PART 18:2011 ;FCC/OST MP-5:1986 Industrial, Scientific, and Medical Equipment	
Report Reference No.	CNB3120425-00627-E
Date of issue	03 May 2012
Testing Laboratory Name	CTS (Ningbo) Testing Service Technology Co., Ltd.
Address	GZ test site;Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.
Testing location/ procedure	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's name	Raywa Lighting & Electrical Corporation
Address	No.70 Changgu Road, Songjiang District, Shanghai P.R.China
Test specification:	
Standard	47 CFR PART 18:2011; FCC/OST MP-5:1986
Test Report Form No.	CTSEMC-1.0
TRF Originator	CTS (Ningbo) Testing Service Technology Co., Ltd.
Master TRF	Dated 2009-01
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Test item description	CFL
Trade Mark	Raywa
Manufacturer	Raywa Lighting & Electrical Corporation
Model/Type reference	CF9W/PAR20
Ratings	AC 120V,60HZ,9W(A)
Result	PASSED

Compiled by:

Violet Lee / File administrators

Supervised by:

Tom Xiao / Technique principal

Approved by:

Vincent yao / Manager

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FCC ID -- TEST REPORT

Test Report No. : CNB3120425-00627-E
03 May 2012
Date of issue

Type / Model..... CF9W/PAR20

EUT..... CFL

Applicant..... Raywa Lighting & Electrical Corporation
Address..... No.70 Changgu Road, Songjiang District, Shanghai P.R.China
Telephone..... +86-021-67727148
Fax..... +86-021-67713010
Contact.....

Manufacturer..... Raywa Lighting & Electrical Corporation
Address..... No.70 Changgu Road, Songjiang District, Shanghai P.R.China
Telephone..... +86-021-67727148
Fax..... +86-021-67713010
Contact.....

Test report holder..... Raywa Lighting & Electrical Corporation
Address..... No.70 Changgu Road, Songjiang District, Shanghai P.R.China
Telephone..... +86-021-67727148
Fax..... +86-021-67713010
Contact.....

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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TABLE OF CONTENTS

Description	Page
1 TEST STANDARDS.....	4
2 SUMMARY	4
2.1 GENERAL REMARKS	4
2.2 FINAL ASSESSMENT	4
3 EQUIPMENT UNDER TEST	5
3.1 Power supply system utilised.....	5
3.2 Short description of the Equipment under Test (EUT).....	5
3.3 EUT operation mode	5
3.4 EUT configuration	5
4 TEST ENVIRONMENT	6
4.1 Address of the test laboratory	6
4.2 Test facility.....	6
4.3 Environmental conditions	6
4.4 Definitions of symbols used in this test report.....	6
4.5 Statement of the measurement uncertainty	6
4.6 Measurement Uncertainty	7
4.7 Test Description	7
5 TEST CONDITIONS AND RESULTS	8
5.1 Conducted disturbance	8
5.2 Radiated disturbance.....	12
6 DEVIATION TO TEST SPECIFICATIONS.....	19
7 USED TEST EQUIPMENT.....	20
8 Manufacturer/ Approval holder Declaration	21

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1 TEST STANDARDS

The tests were performed according to following standards:

47 CFR PART 18:2011 Industrial, Scientific, and Medical Equipment

2 SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	25 April 2012
Testing commenced on	03 May 2012
Testing concluded on	03 May 2012

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

☒ - fulfilled.

☐ - **not** fulfilled.

The equipment under test

☒ - fulfils the FCC requirements cited on page 1.

☐ - **does not** fulfil the FCC requirements cited on page 1.



3 EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage: ☒ AC 120V,60HZ,9W(A)
☐ Others

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1
Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

☒ -Normal

Operating Mode: Normal

Emissions tests: According to 47 CFR PART 18 searching for the highest disturbance.

3.4 EUT configuration

(The CDF filled by the applicant can be viewed at the test laboratory.)

The following peripheral devices and interface cables were connected during the measurement:

N/A



4 TEST ENVIRONMENT

4.1 Address of the test laboratory

GZ test site; Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CTS (Ningbo) Testing Service Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CTS (Ningbo) Testing Service Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 06, 2011.

FCC-Registration No.: 971995

CTS (Ningbo) Testing Service Technology Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.971995, July 21, 2009.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.7 Test Description

4.7.1 Description of Standards and Results

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	47 CFR Part 18:2011: 307(C) Consumer Equipment ANSI C63.4: 2009, FCC/OST MP-5:1986	PASSED
Radiated Emission Test	47 CFR Part 18:2011: 305(b),(C) Any type, Non-ISM Frequency ANSI C63.4: 2009 FCC/OST MP-5:1986	PASSED

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5 TEST CONDITIONS AND RESULTS

5.1 Conducted disturbance

For test instruments and accessories used see section 7 part 7.2.

5.1.1 Description of the test location

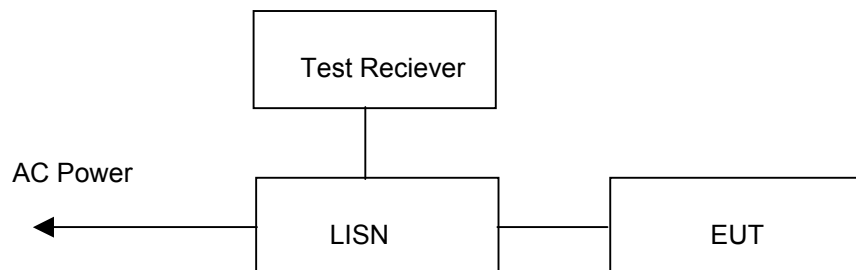
Test location: Shielded room

5.1.2 Description of the test set-up

5.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

5.1.2.2 Block Diagram of Test Setup



5.1.3 Limits disturbance(FCC Class C)

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	
450 k Hz ~ 2.51 M Hz	48	
2.51 M Hz ~ 3 M Hz	69.5	
3 M Hz ~ 30MHz	48	

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

**5.1.4 Test result**

The requirements are	Fulfilled
Band width	9kHz
Frequency range	0.45 MHz - 30 MHz
Min. limit margin	>15.77 dB at 0.45 - 30 MHz

Remarks: The limits are kept. For detailed results, please see the following page(s).

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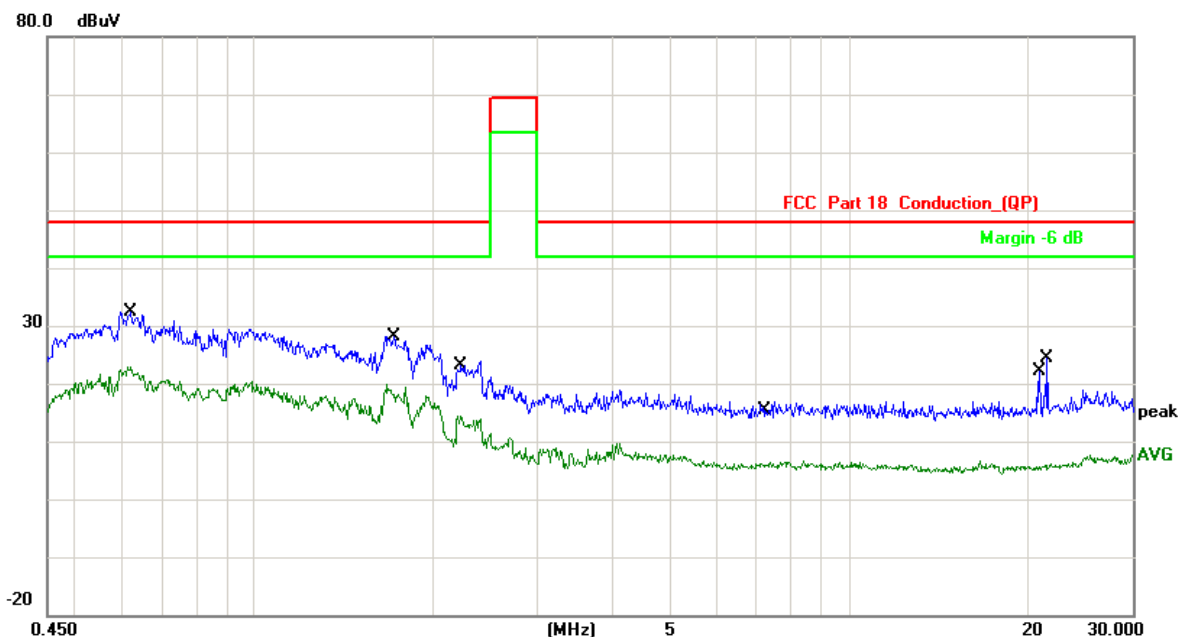
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5.1.5 Test protocol

Test point	L	Result:	■ - passed
Operation mode	Normal		□ - not passed
Remarks:			
EUT	CFL		
Operating Condition	AC 120V,60Hz		
Test Condition	Ambient Temperature: 24°C Humidity: 56%		
Operator	Alan		
MODEL NO.	CF9W/PAR20		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.6220	10.06	22.17	32.23	48.00	-15.77	QP
2	1.7260	10.09	18.39	28.48	48.00	-19.52	QP
3	2.2460	10.06	13.57	23.63	48.00	-24.37	QP
4	7.2900	10.12	4.46	14.58	48.00	-33.42	QP
5	20.9740	10.28	11.81	22.09	48.00	-25.91	QP
6	21.5700	10.32	14.10	24.42	48.00	-23.58	QP

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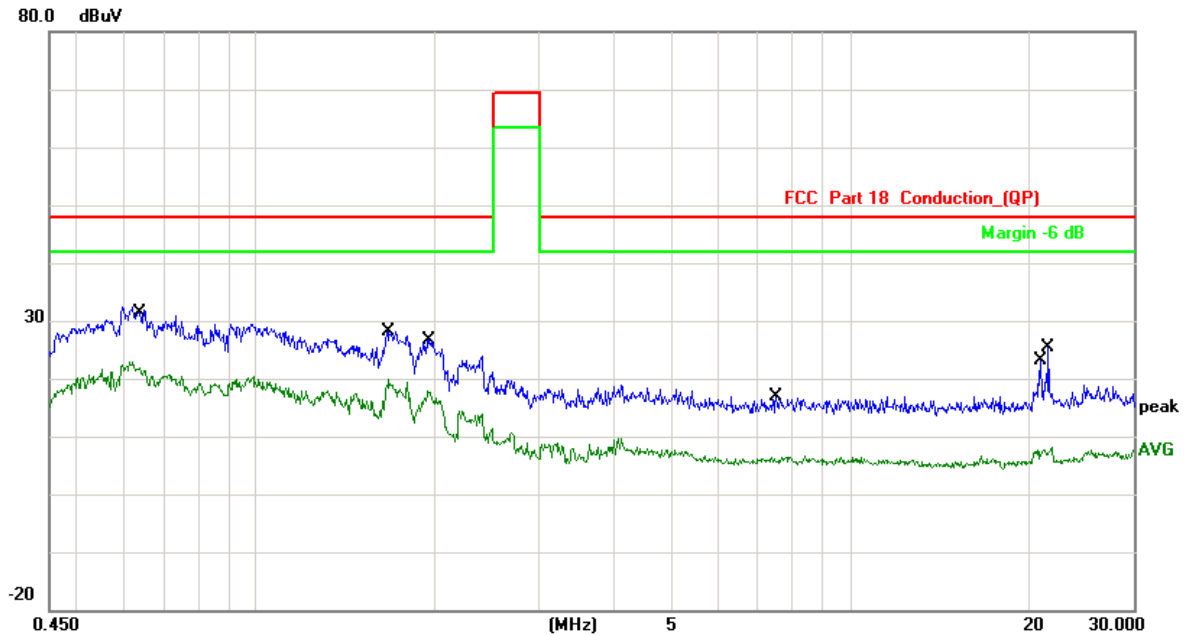
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Test point	N	Result:	■ - passed
Operation mode	Normal		□ - not passed
Remarks:			



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.6340	10.07	21.21	31.28	48.00	-16.72	QP
2	1.6580	10.09	18.03	28.12	48.00	-19.88	QP
3	1.9569	10.08	16.64	26.72	48.00	-21.28	QP
4	7.4100	10.12	4.07	14.19	48.00	-33.81	QP
5	20.9055	10.28	12.81	23.09	48.00	-24.91	QP
6	21.5294	10.32	15.10	25.42	48.00	-22.58	QP

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5.2 Radiated disturbance

For test instruments and accessories used see section 7 part 7.1.

5.2.1 Description of the test location

Test location : Semi-Anechoic chamber

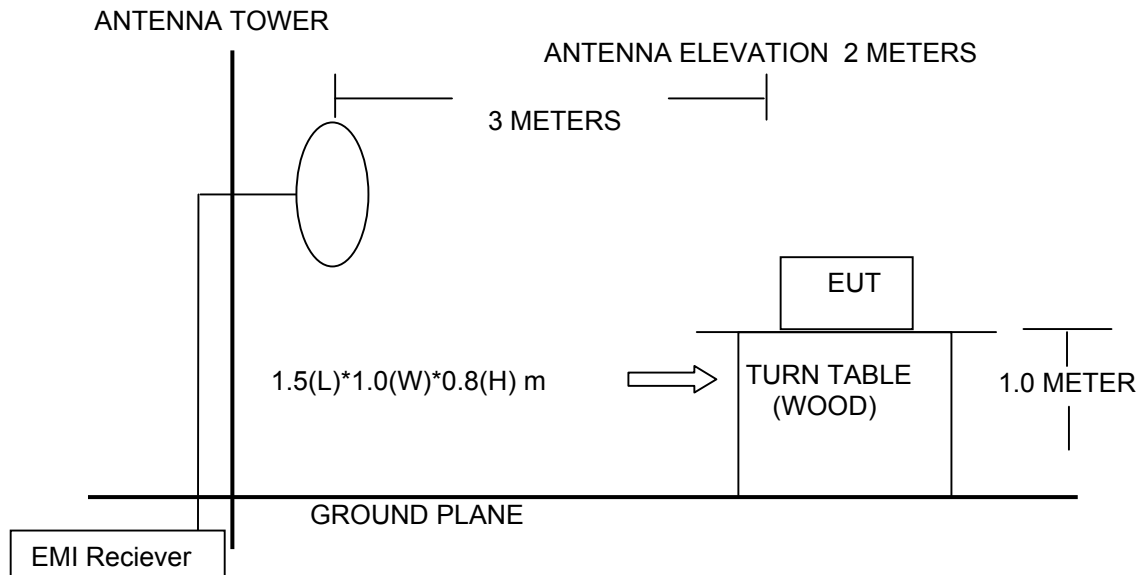
Test disturbance: 3 Meter

5.2.2 Description of the test set-up

5.2.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

5.2.2.2 Block Diagram of Test Setup



5.2.3 Limits of disturbance

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB μ V/m)
0.009~30	3	63.5
30~88	3	40
88~216	3	43.5
216~1000	3	46

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**5.2.4 Test result**

The requirements are	Fulfilled
Band width	200Hz for 9KHz~30MHz; 120KHz for 30MHz~1GHz
Frequency range	9KHz – 1GHz
Min. limit margin	>7.15dB at 9KHz – 1GHz

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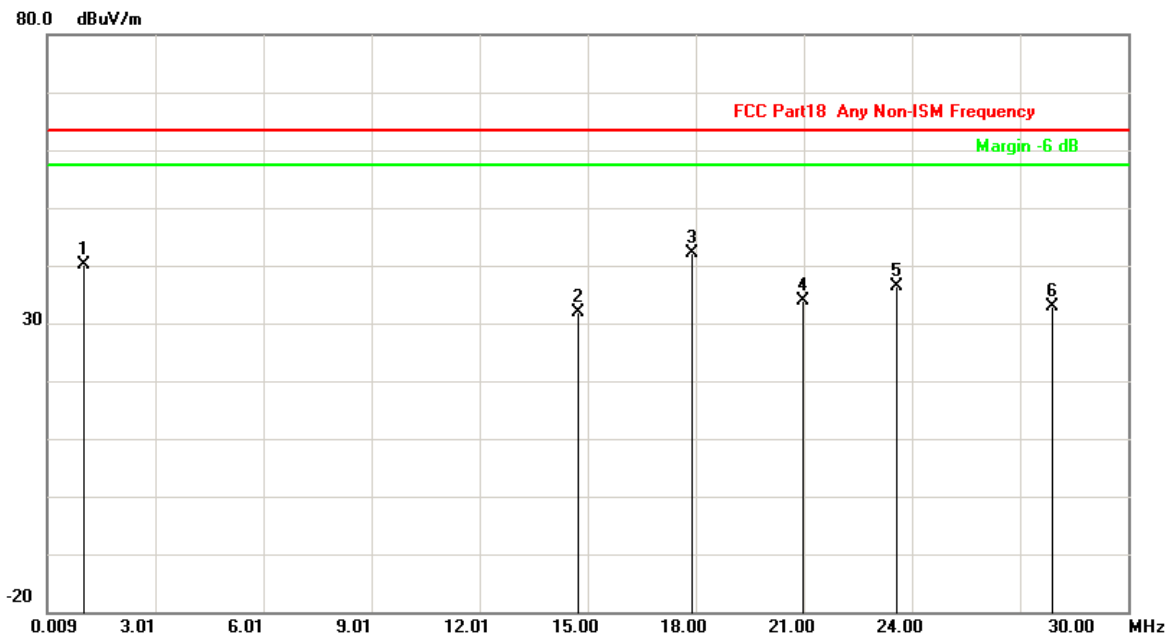
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5.2.5 Test protocol

Test point:	9KHz~30MHz	Result:	■ – passed
Test Model:	Normal		□ - not passed
Remarks:			

EUT	CFL
MODEL NO.	CF9W/PAR20
Operating Condition	AC 120V,60Hz
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Alan



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	1.0307	13.13	27.06	40.19	63.50	-23.31	QP
2	14.7340	14.16	17.81	31.97	63.50	-31.53	QP
3	17.9195	13.93	28.28	42.21	63.50	-21.29	QP
4	20.9847	13.80	19.98	33.78	63.50	-29.72	QP
5	23.5691	13.89	22.37	36.26	63.50	-27.24	QP
6	27.8964	14.04	18.78	32.82	63.50	-30.68	QP

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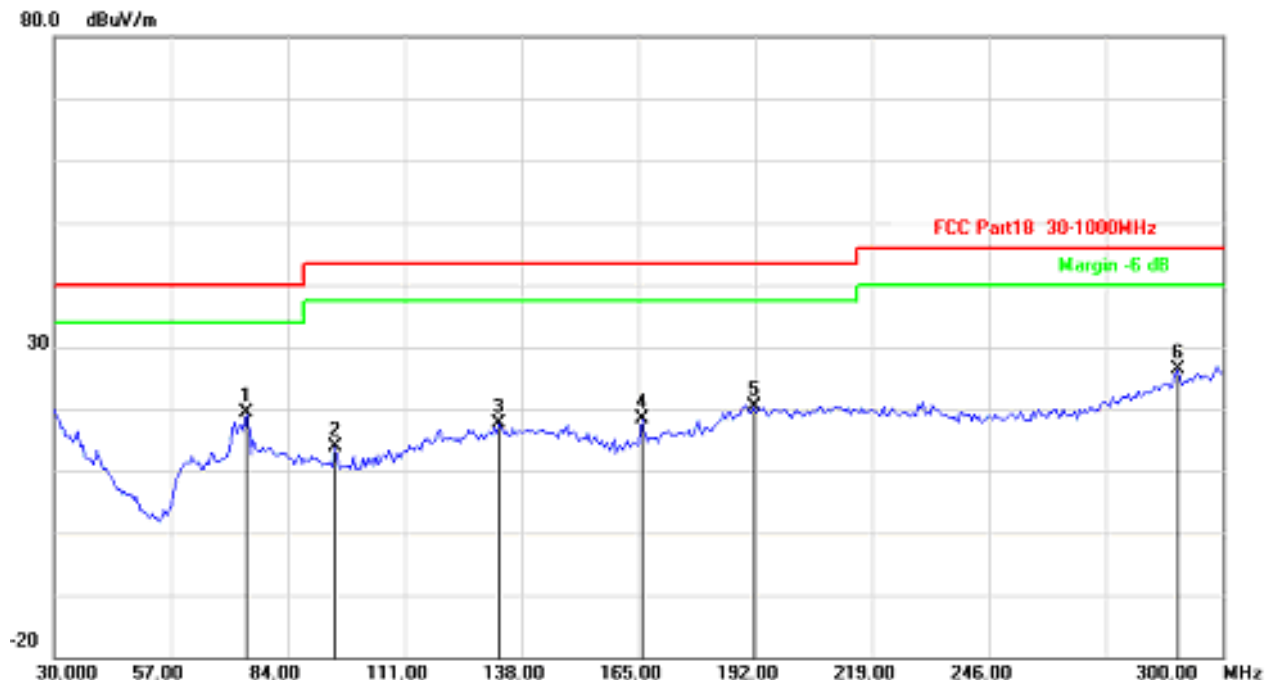
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30MHz~1GHz

Test point:	Horizontal	Result:	■ – passed
Test Model:	Normal		□ - not passed
Remarks:			

EUT	CFL
MODEL NO.	CF9W/PAR20
Operating Condition	AC 120V,60Hz
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Alan



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	74.3687	-38.48	57.98	19.50	40.00	-20.50	QP
2	94.9299	-40.56	54.52	13.96	43.50	-29.54	QP
3	132.8056	-35.05	52.59	17.54	43.50	-25.96	QP
4	165.8116	-36.45	54.82	18.37	43.50	-25.13	QP
5	191.7836	-31.39	51.77	20.38	43.50	-23.12	QP
6	289.7194	-26.89	53.16	26.27	46.00	-19.73	QP

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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	309.8196	-39.44	71.24	31.80	46.00	-14.20	QP
2	486.5731	-30.26	54.45	24.19	46.00	-21.81	QP
3	618.4369	-27.87	58.32	30.45	46.00	-15.55	QP
4	635.2705	-28.29	57.66	29.37	46.00	-16.63	QP
5	750.3006	-27.19	61.81	34.62	46.00	-11.38	QP
6	914.4289	-25.65	54.32	28.67	46.00	-17.33	QP

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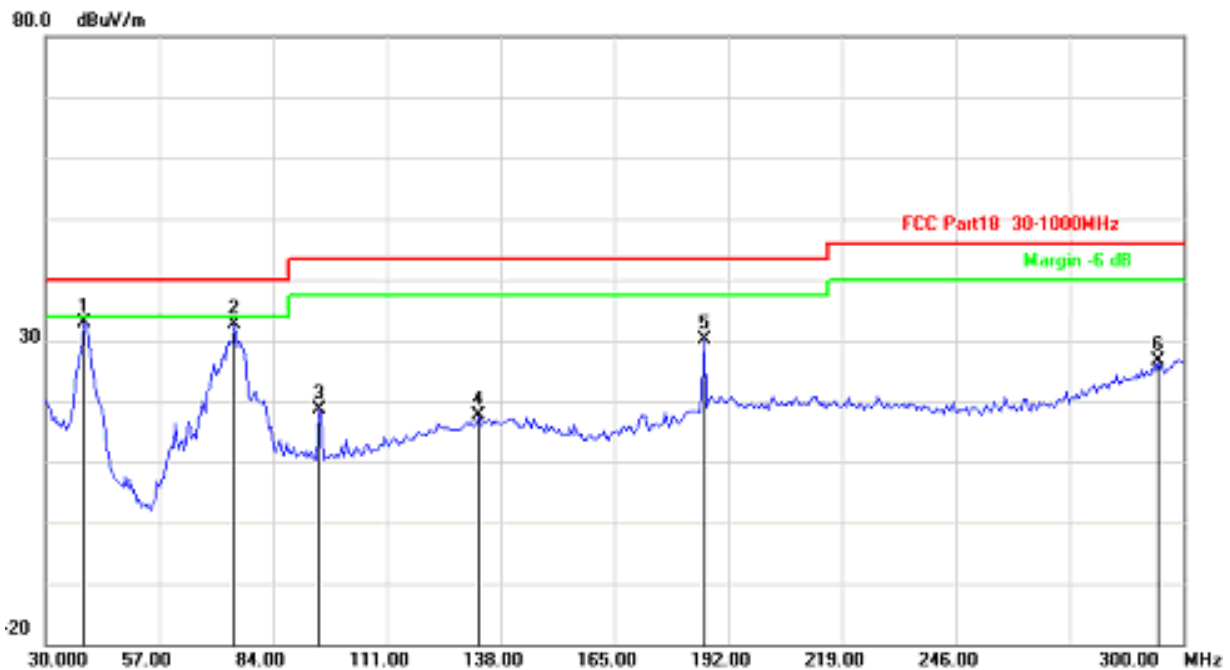
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Test point:	Vertical	Result:	<input checked="" type="checkbox"/> – passed
Test Model:	Normal		<input type="checkbox"/> - not passed
Remarks:			

EUT	CFL
MODEL NO.	CF9W/PAR20
Operating Condition	AC 120V,60Hz
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Alan



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	39.1984	-40.90	73.75	32.85	40.00	-7.15	QP
2	74.9098	-38.31	70.91	32.60	40.00	-7.40	QP
3	94.9299	-40.56	59.31	18.75	43.50	-24.75	QP
4	132.8056	-35.05	52.73	17.68	43.50	-25.82	QP
5	186.3727	-32.46	62.64	30.18	43.50	-13.32	QP
6	294.0481	-26.27	52.89	26.62	46.00	-19.38	QP

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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	434.6693	-35.99	58.54	22.55	46.00	-23.45	QP
2	499.1984	-30.59	56.37	25.78	46.00	-20.22	QP
3	570.7415	-35.75	61.77	26.02	46.00	-19.98	QP
4	625.4509	-27.81	59.54	31.73	46.00	-14.27	QP
5	750.3006	-27.19	59.76	32.57	46.00	-13.43	QP
6	897.5952	-25.20	53.70	28.50	46.00	-17.50	QP

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6 DEVIATION TO TEST SPECIFICATIONS

[NONE]

Normative references

1. **47 CFR Part 18:2011; FCC/OST MP-5:1986**
Industrial, Scientific, and Medical Equipment
2. **ANSI C63.4 : 2009**
American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

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7 USED TEST EQUIPMENT

7.1

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2011/12
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2011/12
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2011/12
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2011/12
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2011/12
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2011/12
7	EMI Test Software	EZ-EMC	EZ-EMC	N/A	N/A

7.2

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2011/12
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2011/12
3	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2011/12
4	EMI Test Software	EZ-EMC	EZ-EMC	N/A	N/A

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E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service



8 Manufacturer/ Approval holder Declaration

The following identical model(s):

N/A

Belong to the tested device:

Magnifier Lamp : CFL
Model name: **CF9W/PAR20**