



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

**OPERATE ACCORDING TO ISO/IEC 17025**

# **EMF TEST REPORT**

**TEST REPORT NUMBER : CGZ3140307-00565-L**

**CTS (Guangzhou) Testing Service Technology Co., Ltd.**

G.Z. test site: A101, No.65, Zhuji Road, Tianhe District,

Guangzhou, Guangdong, China



<b>TEST REPORT</b> <b>EN 62493:2010</b> Assessment of lighting equipment related to human exposure to electromagnetic fields	
<b>Report Reference No.</b> .....	CGZ3140307-00565-L
<b>Date of issue</b> .....	26 March 2014
<b>Testing Laboratory Name</b> .....	<b>CTS (Guangzhou) Testing Service Technology Co., Ltd.</b>
<b>Address</b> .....	GZ test site: A101, No.65, Zhuji Road, Tianhe District, Guangzhou, Guangdong, China
<b>Testing location/ procedure</b> .....	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
<b>Applicant's name</b> .....	ZhongShan ZAWA Lighting Co., Ltd.
<b>Address</b> .....	No.13, LeFeng Six Road, HengLan Town, ZhongShan, GuangDong, China
<b>Test specification:</b> Standard ..... <b>EN 62493:2010</b> Test Report Form No. .... CTSEMF-1.0 TRF Originator ..... CTS (Guangzhou) Testing Service Technology Co., Ltd. Master TRF ..... Dated 2012-01	
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<b>Test item description</b> ..... : Fixed Lamp Trade Mark ..... : / Manufacturer..... : ZhongShan ZAWA Lighting Co., Ltd. Model/Type reference..... : MX11047-4H Ratings..... : 220-240V~ 50/60Hz 200W Result ..... : <b>PASSED</b>	

**Compiled by:****Supervised by:****Approved by:**

Kate Zhang / File administrators

Rock Weng / Technique principal

Jun Yang / Manager

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## EMF -- TEST REPORT

**Test Report No. : CGZ3140307-00565-L**
**26 March 2014**  
 Date of issue

Type / Model .....: MX11047-4H

EUT .....: Fixed Lamp

**Applicant.....** : ZhongShan ZAWA Lighting Co., Ltd.

 Address .....: No.13, LeFeng Six Road, HengLan Town, ZhongShan,  
 Guangdong, China

Telephone. ....: +86-0760-22537709

Fax .....: +86-0760-22537709

Contact.....: YinWu

**Manufacturer .....** : ZhongShan ZAWA Lighting Co., Ltd.

 Address .....: No.13, LeFeng Six Road, HengLan Town, ZhongShan,  
 Guangdong, China

Telephone. ....: +86-0760-22537709

Fax .....: +86-0760-22537709

Contact.....: YinWu

**Factory .....** : ZhongShan ZAWA Lighting Co., Ltd.

 Address .....: No.13, LeFeng Six Road, HengLan Town, ZhongShan,  
 Guangdong, China

Telephone. ....: +86-0760-22537709

Fax .....: +86-0760-22537709

Contact.....: YinWu

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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## 1 TEST STANDARDS

The tests were performed according to following standards:

EN 62493:2010 Assessment of lighting equipment related to human exposure to electromagnetic fields

## 2 SUMMARY

### 2.1 GENERAL REMARKS

Date of receipt of test sample	25 March 2014
Testing commenced on	25 March 2014
Testing concluded on	26 March 2014

### 2.2 FINAL ASSESSMENT

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

☒ - fulfilled.

☐ - **not** fulfilled.

The equipment under test

☒ - fulfils the EN 62493:2010 requirements cited on page 1.

☐ - **does not** fulfil the EN 62493:2010 requirements cited on page 1.

### 3 EQUIPMENT UNDER TEST

#### 3.1 Power supply system utilised

Power supply voltage: ☒ AC 230V  
☐ Other (Specified blank below)

#### 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

### 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:

Not Applicable

## 4 TEST ENVIRONMENT

### 4.1 Address of the test laboratory

GZ test site: A101, No.65, Zhuji Road, Tianhe District, Guangzhou, Guangdong, 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 (Guangzhou) 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.

### 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.

### 4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(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

EN 62493: 2010			
Description of Test Item	Standard	Limits	Results
Conducted disturbance	EN 55015: 2006+A1: 2007+A2: 2009	-----	PASS
Radiated Disturbance (Magnetic)	EN 55015: 2006+A1: 2007+A2: 2009	-----	PASS
Radiated Disturbance (Electric)	EN 55015: 2006+A1: 2007+A2: 2009	-----	PASS
Induced current density	EN 62493: 2010	-----	PASS

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## 5 TEST CONDITIONS AND RESULTS

### 5.1 Conducted disturbance

For test instruments and accessories used see section 6 part 6.1.

### 5.1.1 Description of the test location

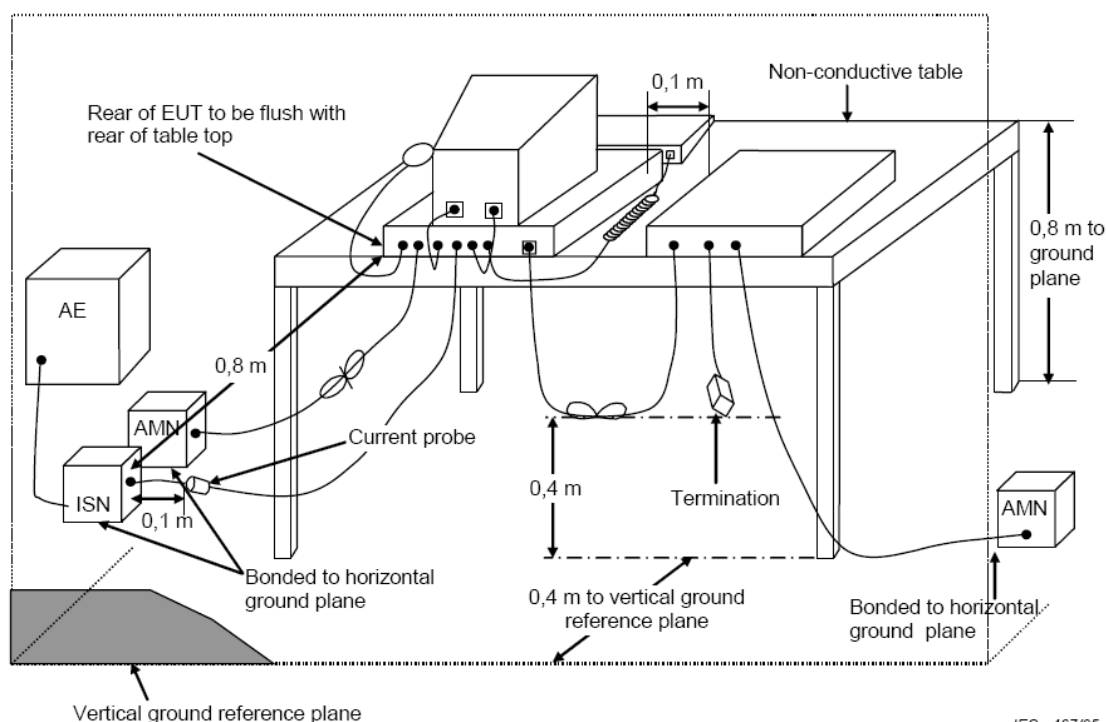
Test location:     Shielded room

### 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

Frequency	At mains terminals (dBμV)	
	Quasi-peak Level	Average Level
9kHz ~ 50kHz	110	--
50kHz ~ 150kHz	90 ~ 80*	--
150kHz ~ 0.5MHz	66 ~ 56*	56 ~ 46*
0.5MHz ~ 5.0MHz	56	46
5.0MHz ~ 30MHz	60	50

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



5.1.4 Test result

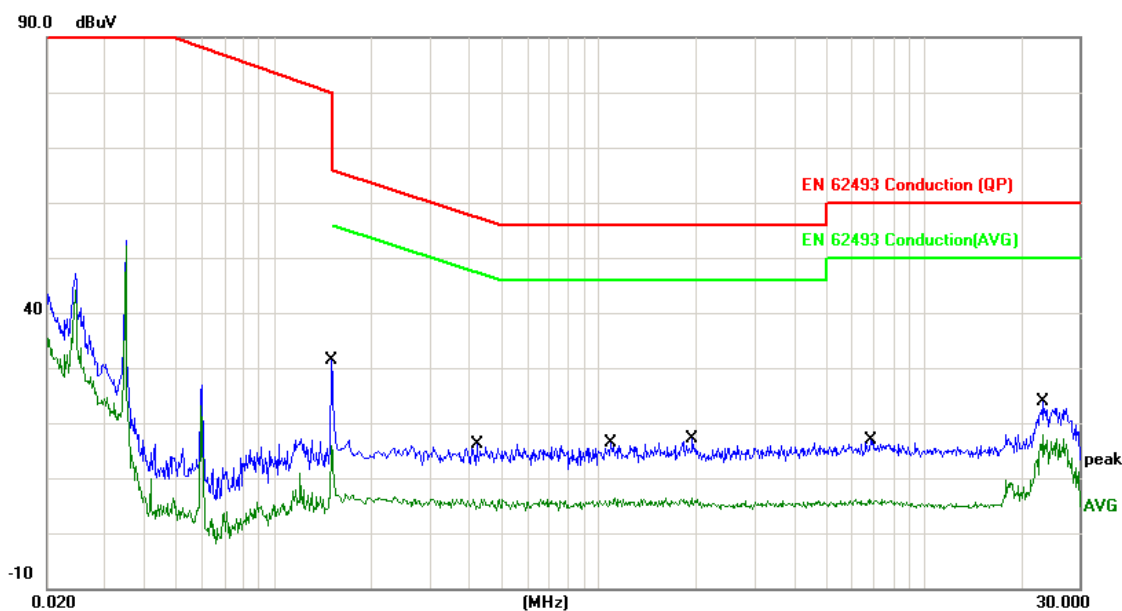
The requirements are	Fulfilled
Band width	9kHz
Frequency range	20kHz - 30 MHz
Min. limit margin	>32.23 dB at 9kHz - 30 MHz

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

### 5.1.5 Test protocol

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

EUT	Fixed Lamp
Operating Condition	AC 230V
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Eric
MODEL NO.	MX11047-4H



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	9.78	21.04	30.82	66.00	-35.18	QP
2	0.1500	9.78	7.33	17.11	56.00	-38.89	AVG
3	0.4221	9.82	-1.41	8.41	57.41	-49.00	QP
4	0.4221	9.82	-4.52	5.30	47.41	-42.11	AVG
5	1.0901	9.83	-1.77	8.06	56.00	-47.94	QP
6	1.0901	9.83	-4.74	5.09	46.00	-40.91	AVG
7	1.9381	9.86	-1.86	8.00	56.00	-48.00	QP
8	1.9381	9.86	-4.68	5.18	46.00	-40.82	AVG
9	6.8501	9.89	-0.18	9.71	60.00	-50.29	QP
10	6.8501	9.89	-5.15	4.74	50.00	-45.26	AVG
11	23.2861	10.04	9.05	19.09	60.00	-40.91	QP
12	23.2861	10.04	5.55	15.59	50.00	-34.41	AVG

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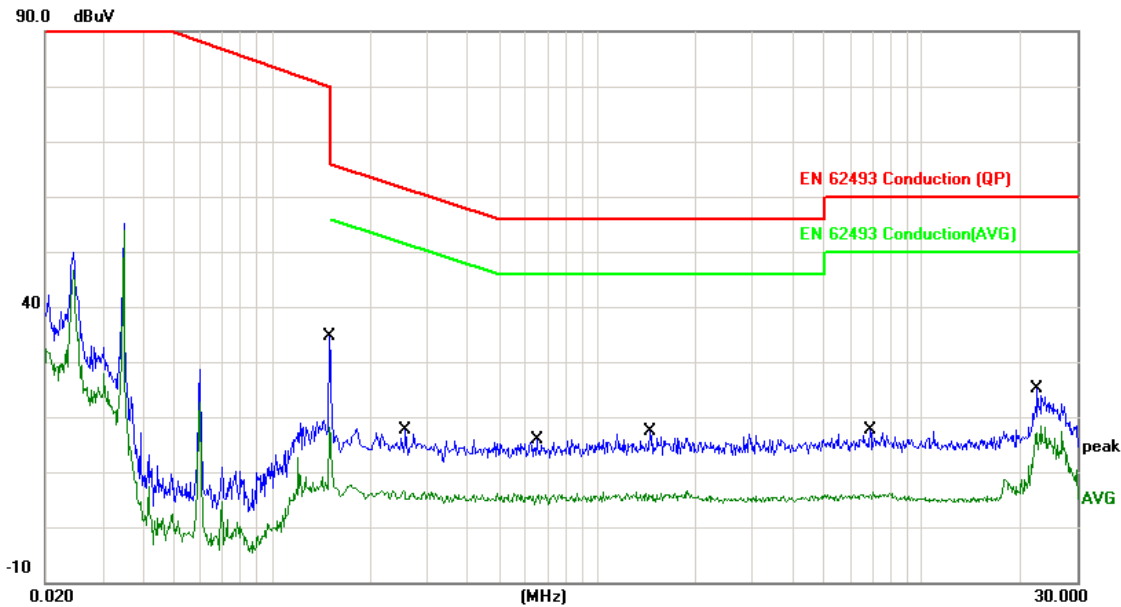
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Test point	N	Result:	■ - passed
Operation mode	Normal		□ - not passed
Remarks:			



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	9.78	23.99	33.77	66.00	-32.23	QP
2	0.1500	9.78	9.48	19.26	56.00	-36.74	AVG
3	0.2581	9.78	-1.16	8.62	61.49	-52.87	QP
4	0.2581	9.78	-4.15	5.63	51.49	-45.86	AVG
5	0.6541	9.84	-1.59	8.25	56.00	-47.75	QP
6	0.6541	9.84	-4.58	5.26	46.00	-40.74	AVG
7	1.4541	9.85	-1.87	7.98	56.00	-48.02	QP
8	1.4541	9.85	-4.73	5.12	46.00	-40.88	AVG
9	6.9021	9.89	-0.40	9.49	60.00	-50.51	QP
10	6.9021	9.89	-5.07	4.82	50.00	-45.18	AVG
11	22.5661	10.03	8.06	18.09	60.00	-41.91	QP
12	22.5661	10.03	4.78	14.81	50.00	-35.19	AVG

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## 5.2 Radiated disturbance (magnetic field)

For test instruments and accessories used see section 6 part 6.2.

### 5.2.1 Description of the test location

Test location : Shielded room

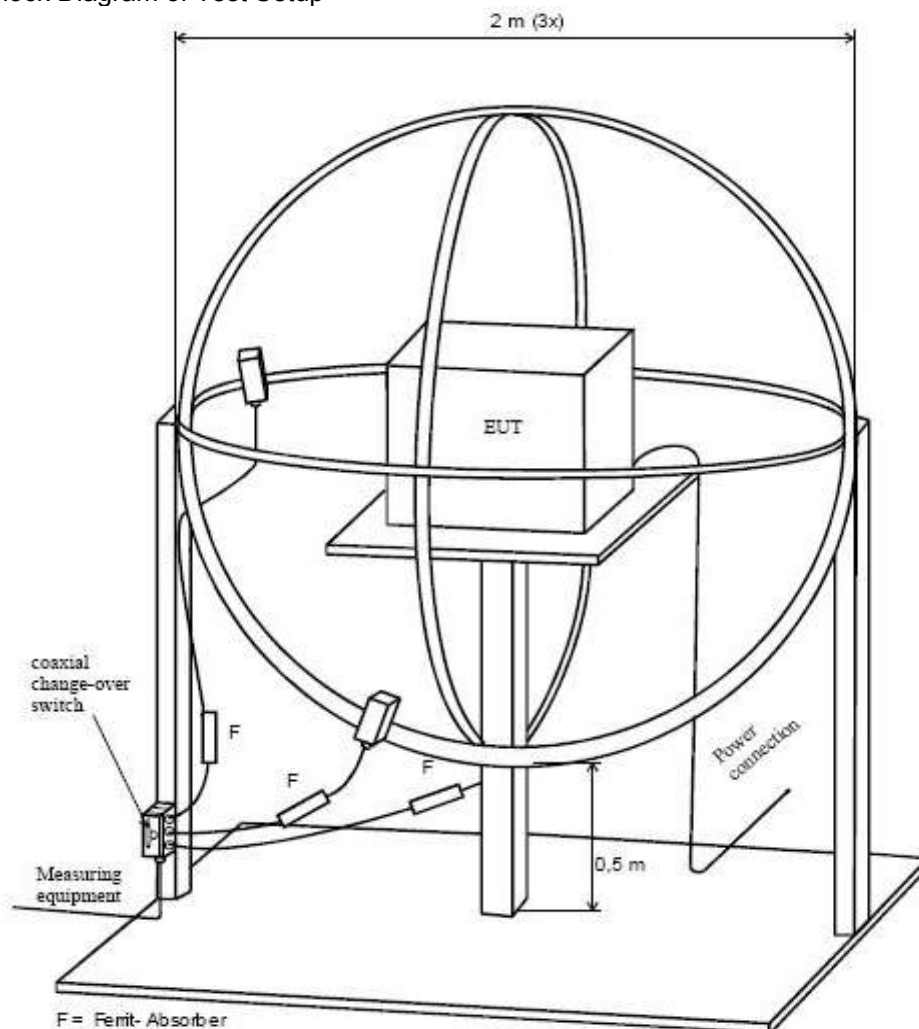
Test disturbance: 2 Meter

### 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



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### 5.2.3 Limits of disturbance

Frequency	Limits for loop diameter (dB $\mu$ A)	
	2m	
9kHz ~ 70kHz	88	
70kHz ~ 150kHz	88 ~ 58*	
150kHz ~ 3.0MHz	58 ~ 22*	
3.0MHz ~ 30MHz	22	

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

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

### 5.2.4 Test result

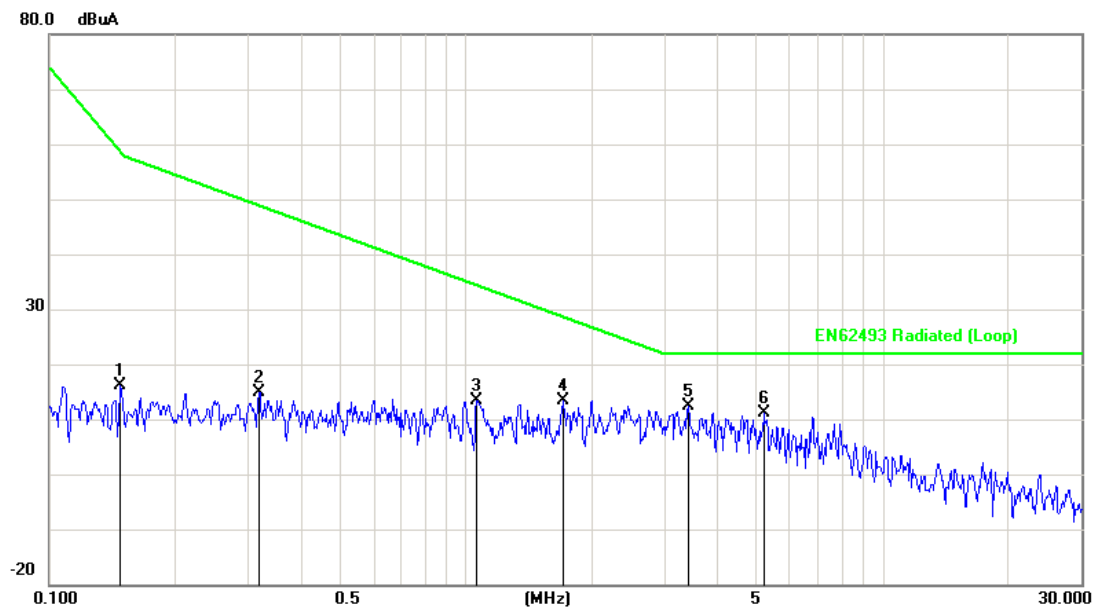
The requirements are	<b>Fulfilled</b>
Band width	9kHz
Frequency range	100kHz - 30 MHz
Min. limit margin MHz	>9.55 dB at 9kHz- 30MHz

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

## 5.2.5 Test protocol

Test point:	X	Result:	■ – passed
Operation mode	Normal		□ – not passed
Remarks:			

EUT	Fixed Lamp
Operating Condition	AC 230V
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Eric
MODEL NO.	MX11047-4H



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1482	55.65	-39.60	16.05	58.48	-42.43	peak
2	0.3183	55.78	-40.91	14.87	48.96	-34.09	peak
3	1.0605	54.32	-40.84	13.48	34.50	-21.02	peak
4	1.7124	54.51	-41.19	13.32	28.74	-15.42	peak
5	3.4146	53.75	-41.45	12.30	22.00	-9.70	peak
6	5.1781	51.62	-40.47	11.15	22.00	-10.85	peak

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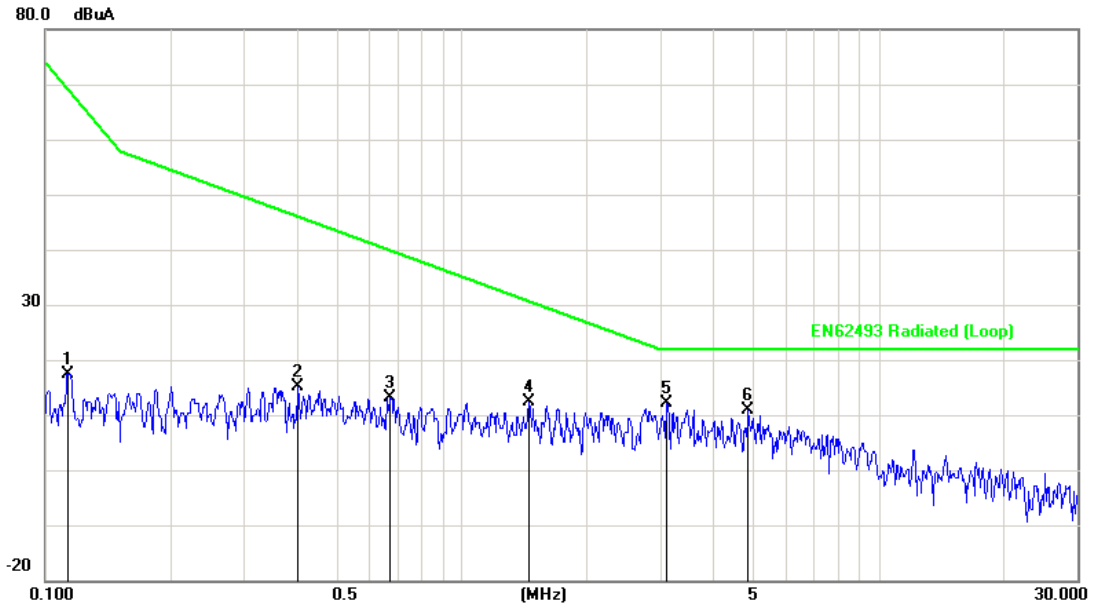
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Test point:	Y	Result:	<input checked="" type="checkbox"/> – passed
Operation mode	Normal		<input type="checkbox"/> – not passed
Remarks:			



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1134	56.36	-38.86	17.50	69.01	-51.51	peak
2	0.4045	56.00	-40.83	15.17	46.08	-30.91	peak
3	0.6720	55.20	-42.04	13.16	39.98	-26.82	peak
4	1.4431	53.67	-41.19	12.48	30.79	-18.31	peak
5	3.0990	53.70	-41.49	12.21	22.00	-9.79	peak
6	4.8632	51.85	-40.99	10.86	22.00	-11.14	peak

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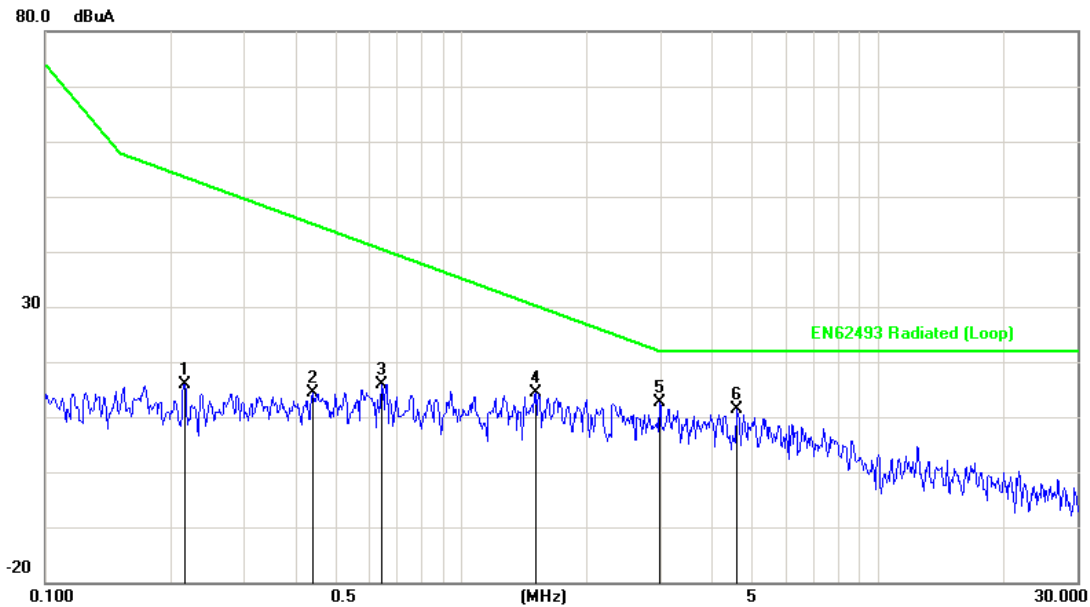
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Test point:	Z	Result:	<input checked="" type="checkbox"/> – passed
Operation mode	Normal		<input type="checkbox"/> – not passed
Remarks:			



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.2148	56.60	-40.82	15.78	53.68	-37.90	peak
2	0.4381	56.72	-42.36	14.36	45.12	-30.76	peak
3	0.6420	56.29	-40.36	15.93	40.53	-24.60	peak
4	1.5019	55.90	-41.62	14.28	30.31	-16.03	peak
5	2.9777	53.94	-41.40	12.54	22.09	-9.55	peak
6	4.5674	52.28	-41.01	11.27	22.00	-10.73	peak

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5.3 Radiated disturbance (Electric field)

For test instruments and accessories used see section 6 part 6.3.

5.3.1 Description of the test location

Test location : Semi-Anechoic chamber

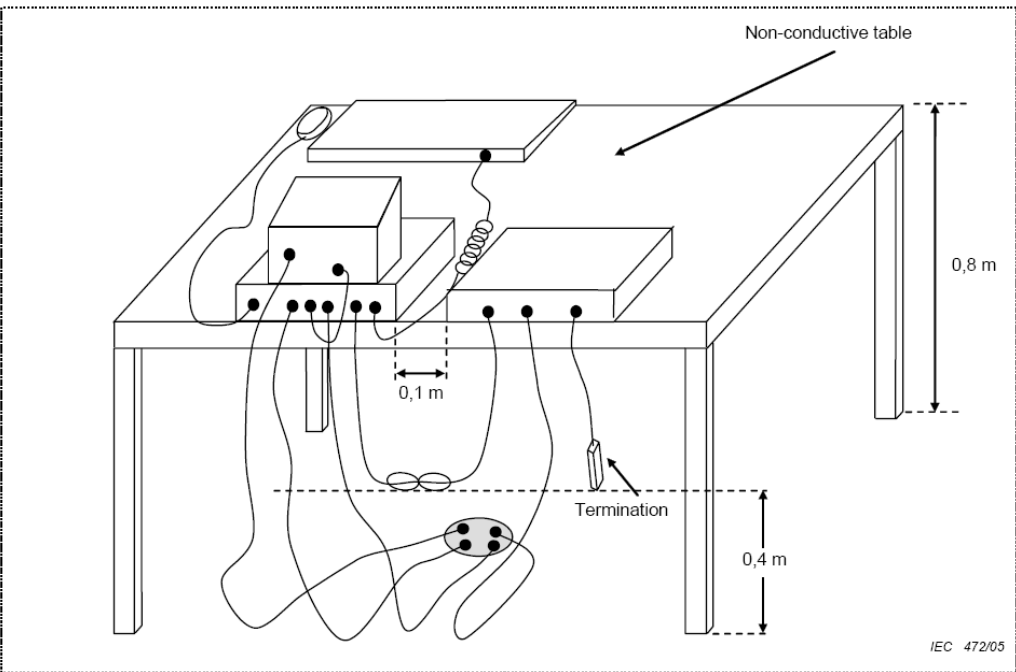
Test disturbance: 3 Meter

5.3.2 Description of the test set-up

5.3.2.1 Operating Condition

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

5.3.2.2 Block Diagram of Test Setup



5.3.3 Limits of disturbance

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB $\mu$ V/m)
30 ~ 230	3	40
230 ~ 300	3	47

Note: (1) The tighter limit shall apply at the edge between two frequency bands.  
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

5.3.4 Test result

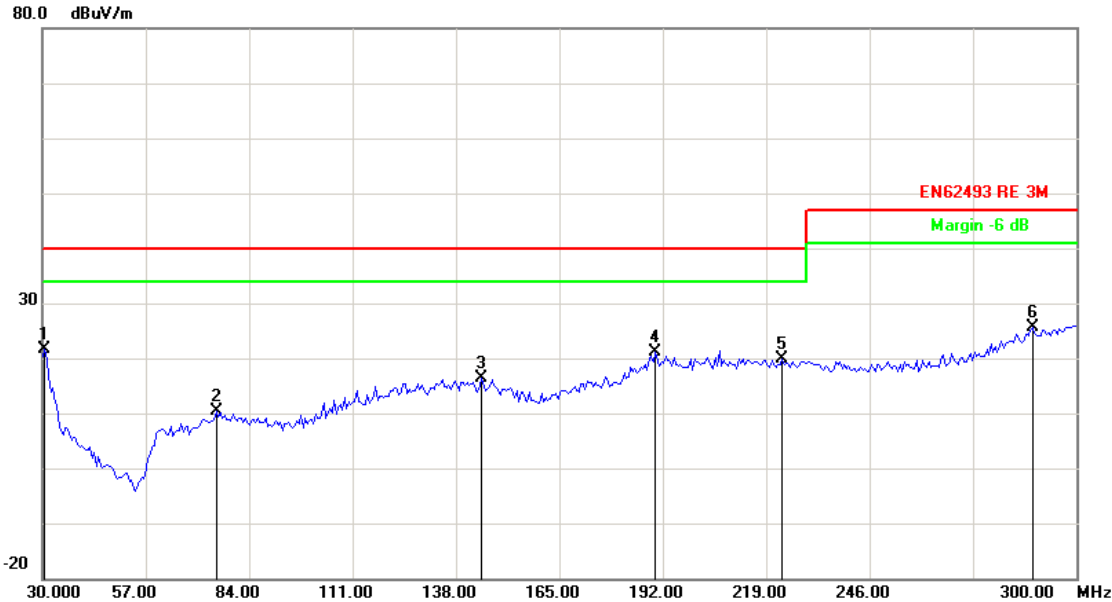
The requirements are	Fulfilled
Band width	120kHz
Frequency range	30 MHz - 300 MHz
Min. limit margin	>18.40 dB at 30 - 300 MHz

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

### 5.3.5 Test protocol

Test point:	Horizontal	Result:	■ – passed
Operation mode	Normal		□ – not passed
Remarks:			

EUT	Fixed Lamp
Operating Condition	AC 230V
Test Condition	Ambient Temperature: 24°C Humidity: 56%
Operator	Eric
MODEL NO.	MX11047-4H



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	30.5411	-18.94	40.54	21.60	40.00	-18.40	QP
2	75.4509	-21.45	31.88	10.43	40.00	-29.57	QP
3	144.7094	-16.83	33.18	16.35	40.00	-23.65	QP
4	190.1603	-12.02	33.10	21.08	40.00	-18.92	QP
5	223.1663	-12.40	32.23	19.83	40.00	-20.17	QP
6	288.6373	-7.37	33.04	25.67	47.00	-21.33	QP

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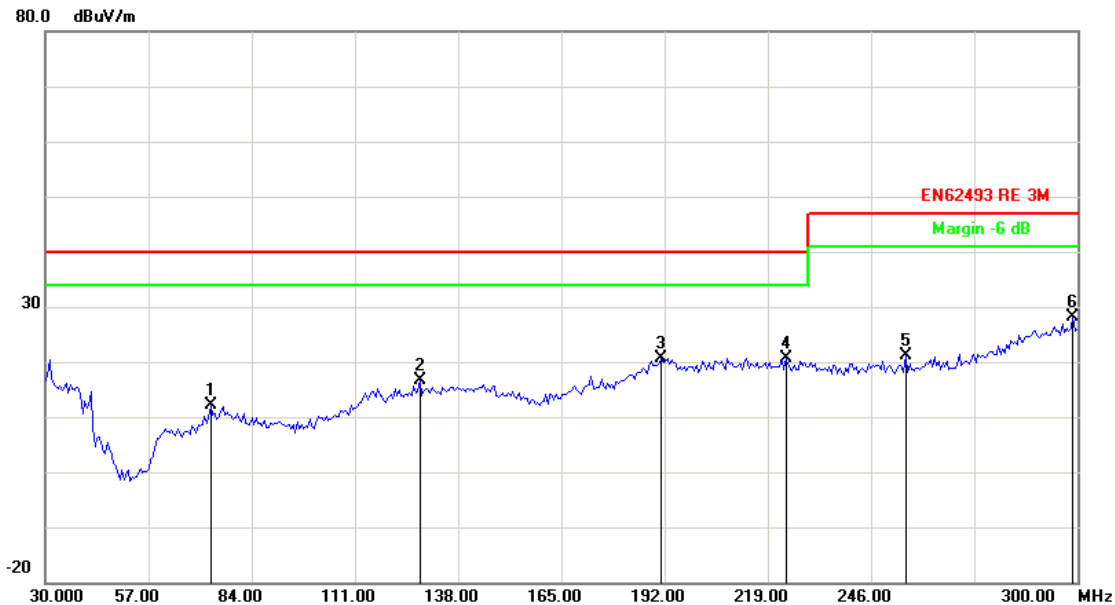
Fax: +86-20-38780406

Complaint line: +86-20-85533471

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

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Test point:	Vertical	Result:	■ – passed
Operation mode	Normal		□ – not passed
Remarks:			



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	73.2865	-22.03	34.12	12.09	40.00	-27.91	QP
2	127.9358	-17.28	33.85	16.57	40.00	-23.43	QP
3	191.2424	-12.09	32.81	20.72	40.00	-19.28	QP
4	223.7074	-12.40	33.14	20.74	40.00	-19.26	QP
5	255.0901	-12.69	33.71	21.02	47.00	-25.98	QP
6	298.9178	-5.73	33.74	28.01	47.00	-18.99	QP

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5.4 Induced current density

5.4.1 Description of the test location

Test location : Semi-Anechoic chamber

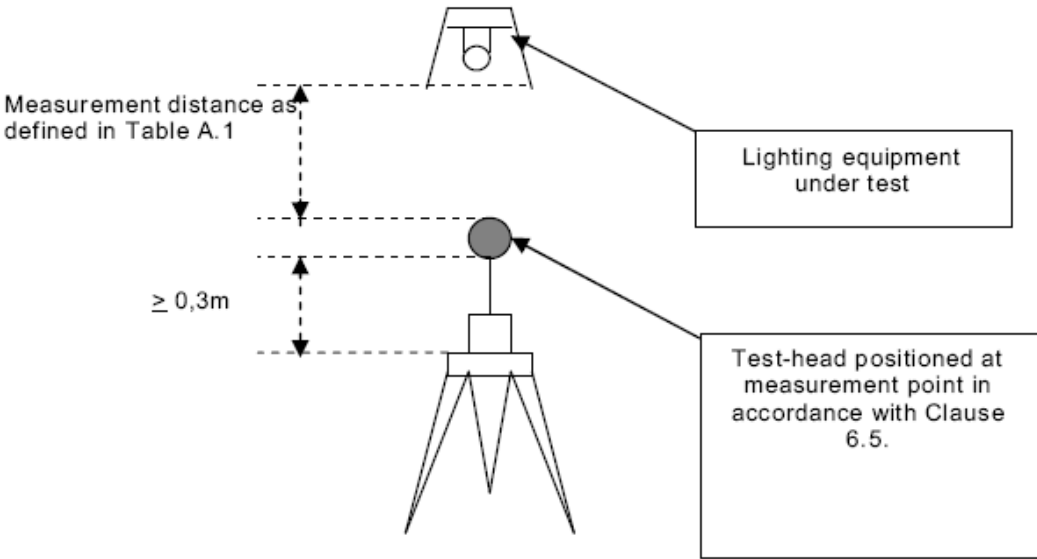
Test disturbance: 50 cm

5.4.2 Description of the test set-up

5.4.2.1 Operating Condition

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

5.4.2.2 Block Diagram of Test Setup



5.4.3 Test Limit

Frequency (MHz)	Distance (Meters)	Limit
0.01 ~ 10	0.5	0.85

5.4.4 Test result

The requirements are	<b>Fulfilled</b>
Frequency range	20 kHz - 10 MHz
Result	■ – passed □ – not passed

## 6 TEST PHOTOGRAPHS

### 6.1. Photos of power line conducted emission measurement



### 6.2. Photos of radiated emission measurement (Magnetic field)



### 6.3. Photos of radiated emission measurement (Electric field)



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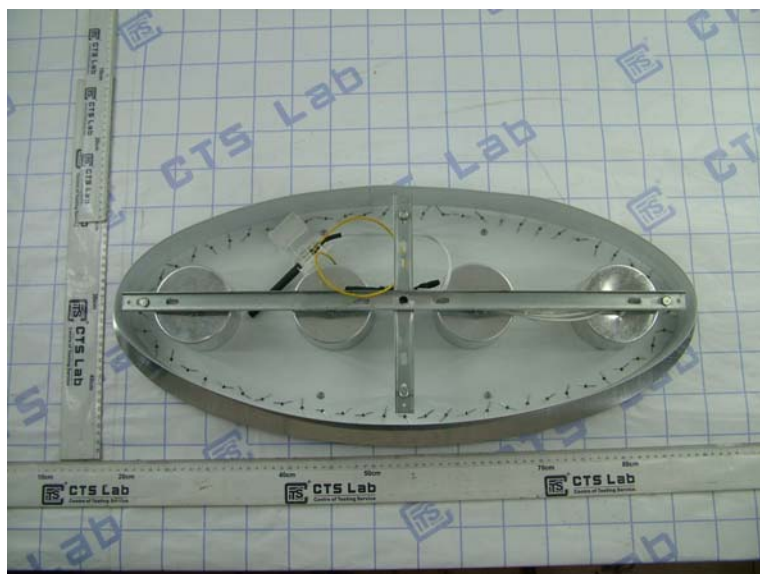
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## 7 EXTERNAL AND INTERNAL PHOTOS OF THE EUT



External view -1



External view -2

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Lampholder

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## 8 Manufacturer/ Approval holder Declaration

The following identical model(s):

N/A

Belong to the tested device:

Product description: **Fixed Lamp**  
Model name: **MX11047-4H**

**No additional models were tested.**

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