

Report No.: SHEM191201990601

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# TEST REPORT

Application No.: SHEM1912019906LM

**Applicant:** Bestway (Hongkong) International Ltd.

Address of Applicant: Suite 713, 7/Floor, East Wing, Tsim Sha Tsui Centre, 66 Mody Road,

Kowloon, Hongkong

Manufacturer: Bestway (Nantong) Recreation corp

Address of Manufacturer: No.8 Hui West Road, Economic Development Zone, Rugao, Jiangsu

226500, P.R. China

Factory: Bestway (Nantong) Recreation corp

Address of Factory: No.8 Hui West Road, Economic Development Zone, Rugao, Jiangsu

226500.P.R.China

**Equipment Under Test (EUT):** 

**EUT Name:** LED light

**Model No.:** 58471, 60302 ¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: BESTWAY

**Standard(s):** EN 55015:2013 +A1:2015

EN 61547:2009

**Date of Receipt:** 2019-01-11

**Date of Test:** 2019-01-17 to 2019-01-18

**Date of Issue:** 2019-12-31

Test Result: Pass\*

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

parlan 2han

CE

Parlam Zhan E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, resemble (ND Noceches Company).

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record						
Version	Description	Date	Remark			
00	Add model	2019-12-31	Based on SHEM190101027301			

Authorized for issue by:		
	limn zhong	
	Lemon Zhang / Project Engineer	
	Bruce Tang	
	Bruce Tang / Reviewer	



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## 2 Test Summary

Emission Part							
Item	Standard	Method	Requirement	Result			
Radiated Emissions (30MHz-300MHz)	EN 55015:2013 +A1:2015	CISPR 32:2015	N/A	Pass			
Radiated Emissions (Magnetic field Induced Current)(9kHz- 30MHz)	EN 55015:2013 +A1:2015	EN 55015:2013+A1:2015	N/A	Pass			

N/A: Not applicable

Immunity Part							
Item	Standard	Method	Requirement	Result			
Electrostatic Discharge	EN 61547:2009	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass			
Radiated Immunity (80MHz-1GHz)	EN 61547:2009	EN 61000-4-3:2006 +A1:2008+A2:2010	3V/m, 80%, 1kHz Amp. Mod.	Pass			

N/A: Not applicable

#### Note1: Declaration of EUT Family Grouping:

There are series models mentioned in this report and they are the similar in electrical and electronic characters. Only the model 58471 was tested since their differences are model number.

**Note2:** We add model 60302 in this report. The new models mentioned in this report are the same as the original models, in Electronic or Electrical characters. Which were already EMC tested in the report SHEM190101027301. So the new models in this report are deemed to fulfil the EMC requirements without testing. And update the manufacturer information.

# SGS

## SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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## 4 General Information

## 4.1 Details of E.U.T.

Power supply: supplied by Generator

### 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Conducted Emission	±2.6dB (9kHz to 150kHz)		
1	at mains port using AMN	±2.3dB (150kHz to 30MHz)		
2	Conducted Emission	+1 0 dB (0kHz to 20MHz)		
	at mains port using VP	±1.9 dB (9kHz to 30MHz)		
3	Conducted Emission	±4.1 dD (150kHz to 20MHz)		
3	at telecommunication port using AAN	±4.1 dB (150kHz to 30MHz)		
4	Radiated Power	±3.0dB		
		±4.4dB (30MHz-1GHz)		
5	Radiated emission	±4.8dB (1GHz-6GHz)		
		±5.2dB (6GHz-18GHz)		

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

#### 4.5 Test Facility

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

#### CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### • NVLAP (Certificate No. 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

#### • FCC -Designation Number: CN5033

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC Registration No.: 8617A-1. CAB Identifier: CN0020.

#### • VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None

#### 4.8 Monitoring of EUT for All Immunity Test

Visual: Monitor the lamp lighting.





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# 5 Equipment List

Radiated Emissions (30MHz-300MHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
EMI test receiver	Rohde & Schwarz	ESU40	SHEM051-1	2018-12-20	2019-12-19			
CONTROLLER	INNCO	CO200	SHEM047-1	N/A	N/A			
ANTENNA MAST	INNCO	MA400-EP	SHEM047-2	N/A	N/A			
TURN DEVICE	INNCO	DE 3600-RH	SHEM047-3	N/A	N/A			
Broadband UHF-VHF ANTENNA	SCHWARZBECK	VULB9168	SHEM048-1	2017-02-28	2020-02-27			
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21			
Low Amplifier	CLAVIIO	BDLNA-0001- 412010	SHEM164-1	2018-08-13	2019-08-12			

Radiated Emissions (Magnetic field Induced Current)(9kHz-30MHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2018-12-20	2019-12-19			
3-dimensional large loop antenna,diam.2m.acc	Rohde & Schwarz	HXYZ9170	SHEM017-1	2018-12-20	2019-12-19			
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2018-12-20	2019-12-19			
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2017-12-20	2020-12-19			
CE test Cable	1	/	CE01	2018-12-26	2019-12-25			

Electrostatic Discharge						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Electrostatic Discharge Simulator	TESEQ	NSG 437	SHEM041-2	2018-08-13	2019-08-12	

Radiated Immunity (80MHz-1GHz)							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Signal generator	Rohde & Schwarz	SMJ100A	SHEM141-1	2018-08-13	2019-08-12		
Power Meter	Rohde & Schwarz	NRP	SHEM057-1	2018-12-20	2019-12-19		
Power meter sensor	Rohde & Schwarz	NRP-Z91	SHEM057-2	2018-12-20	2019-12-19		
Antenna	SCHWARZBECK	STLP9128D	SHEM130-1	N/A	N/A		
Amplifier	MILMEGA	AS0840-55-55	SHEM133-1	2018-12-20	2019-12-19		
Power meter sensor	Rohde & Schwarz	NRP-Z22	SHEM136-1	2018-12-20	2019-12-19		
ElectroMagnetic Field Probe	ETS-Lindgren	HI-6105	SHEM134-1	2018-12-11	2019-12-10		
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21		

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Digital pressure meter	YONGZHI	DYM3-01	SHEM082-1	2018-01-25	2021-01-24		
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-1~6	2018-08-31	2019-08-30		
Digital Multimeter	FLUKE	17B	SHEM043-3	2018-09-03	2019-09-02		
Autoformer regulator	Guangzhou bao de	TDGC2-5KVA	SHEM150-1	N/A	N/A		
Multi-purpose tong tester	FLUKE	316	SHEM001-1	2018-12-20	2019-12-19		





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#### 6 Emission Test Results

#### 6.1 Radiated Emissions (30MHz-300MHz)

Test Requirement: EN 55015:2013 +A1:2015

Test Method: CISPR 32:2015 Frequency Range: 30MHz to 300MHz

Measurement Distance: 3m

Limit:

30MHz-230MHz  $40dB(\mu V/m)$  quasi-peak 230MHz-300MHz  $47dB(\mu V/m)$  quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 300MHz

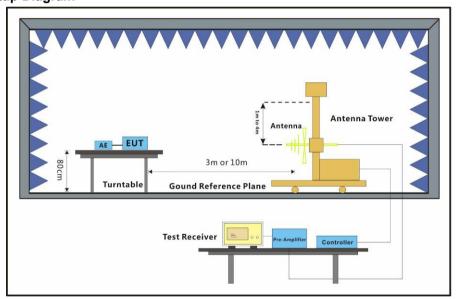
#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Lighting Mode: Keep the lamp lighting continuously.

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

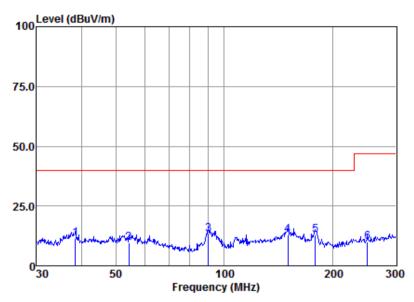
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Mode:a; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :0273LM

Test mode :a

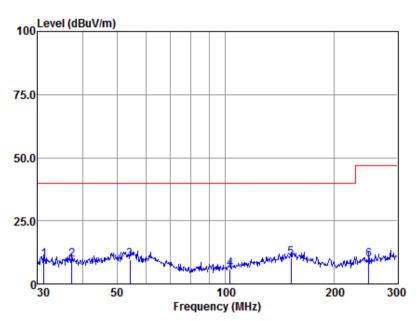
		Read	Antenna	Cable	Preamp	Emission	Limit	0ver		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB		
1	38.48	26.33	13.21	1.27	29.50	11.31	40.00	-28.69	QP	
2	54.26	25.31	12.43	1.52	29.50	9.76	40.00	-30.24	QP	
3	90.22	32.03	8.71	1.99	29.50	13.23	40.00	-26.77	QP	
4	150.54	26.55	13.41	2.56	29.44	13.08	40.00	-26.92	QP	
5	179.39	28.55	11.01	2.84	29.42	12.98	40.00	-27.02	QP	
6	250.30	24.83	11.24	3.39	29.33	10.13	47.00	-36.87	QР	
Note:	lote:Fmission Level=Read Level+Antenna Factor+Cable loss-Preamn Factor									





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Mode:a; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :0273LM

Test mode :a

		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	31.29	25.26	12.59	1.22	29.50	9.57	40.00	-30.43	QP
2	37.42	24.87	13.12	1.26	29.50	9.75	40.00	-30.25	QP
3	54.26	25.31	12.43	1.52	29.50	9.76	40.00	-30.24	QP
4	103.08	23.58	9.70	2.11	29.50	5.89	40.00	-34.11	QP
5	152.13	23.90	13.41	2.58	29.44	10.45	40.00	-29.55	QP
6	250.30	24.11	11.24	3.39	29.33	9.41	47.00	-37.59	QP
		_			_		_	_	_

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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#### 6.2 Radiated Emissions (Magnetic field Induced Current)(9kHz-30MHz)

Test Requirement: EN 55015:2013 +A1:2015 Test Method: EN 55015:2013+A1:2015

Frequency Range: 9kHz to 30MHz

Limit:

0.009MHz-0.07MHz 88dB(µA) quasi-peak

0.07MHz-0.15MHz 88dB( $\mu$ A)-58dB( $\mu$ A) quasi-peak 0.15MHz-3MHz 58dB( $\mu$ A)-22dB( $\mu$ A) quasi-peak

3MHz-30MHz 22dB(µA) quasi-peak

Detector: Peak for pre-scan (200Hz resolution bandwidth) 0.009M to 0.15MHz

Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

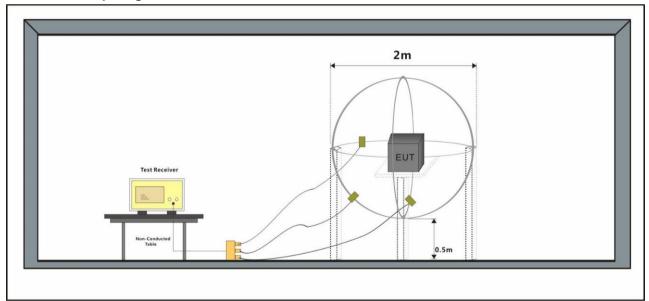
#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

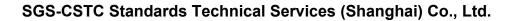
Test mode a: Lighting Mode: Keep the lamp lighting continuously.

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement Data

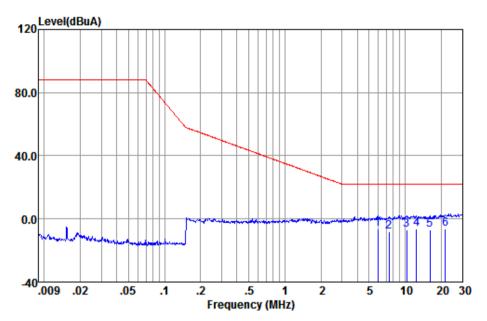
An initial pre-scan was performed in the 2m loop antenna using the spectrum analyser in peak detection mode. The EUT was measured for X(A), Y(B), Z(C) polarities.





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Mode:a; Axial:X

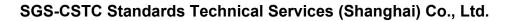


EUT/Project No: 10273LM

Test Mode : a

: X

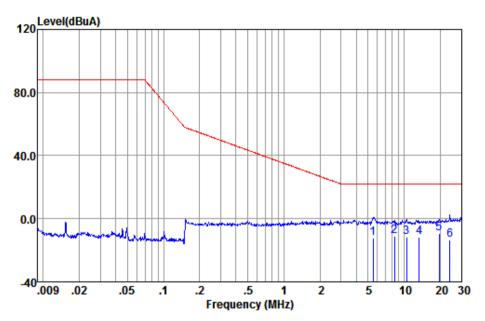
	Freq (MHz)	Read level (dBuA)	Cable Loss (dB)	Emission Level (dBuA)	Limit (dBuA)	Over Limit (dB)	Remark
1	5.97	-6.70	0.35	-6.35	22.00	-28.35	QP
2	7.37	-8.34	0.42	-7.92	22.00	-29.92	QP
3	10.37	-7.68	0.53	-7.15	22.00	-29.15	QP
4	12.49	-6.87	0.52	-6.35	22.00	-28.35	QP
5	16.06	-7.84	0.65	-7.19	22.00	-29.19	QP
6	21.69	-7.18	0.65	-6.53	22.00	-28.53	QP
N	Notes: E	mission	Level =	Read Level	+ Cable	loss	





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Mode:a; Axial:Y

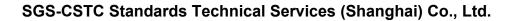


EUT/Project No: 10273LM

Test Mode : a

: Y

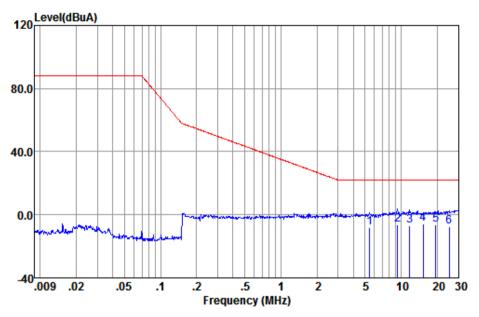
	Freq	Read level	Cable Loss	Emission Level	Limit	Over Limit	Remark
	(MHz)	(dBuA)	(dB)	(dBuA)	(dBuA)	(dB)	
1	5.55	-12.74	0.34	-12.40	22.00	-34.40	QP
2	8.33	-11.34	0.45	-10.89	22.00	-32.89	QP
3	10.54	-12.25	0.52	-11.73	22.00	-33.73	QP
4	13.33	-12.31	0.56	-11.75	22.00	-33.75	QP
5	19.68	-9.92	0.39	-9.53	22.00	-31.53	QP
6	24.10	-14.26	0.62	-13.64	22.00	-35.64	QP
	Notes: E	Emission	Level =	Read Level	+ Cable	loss	





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Mode:a; Axial:Z



EUT/Project No: 10273LM

Test Mode : a

: Z

	Freq	Read level	Cable Loss	Emission Level	Limit	Over Limit	Remark
	(MHz)	(dBuA)	(dB)	(dBuA)	(dBuA)	(dB)	
1	5.51	-8.17	0.34	-7.83	22.00	-29.83	00
1	3.31	-0.1/	0.54	-7.05	22.00	-29.03	QP
2	9.33	-6.77	0.49	-6.28	22.00	-28.28	QP
3	11.80	-7.44	0.52	-6.92	22.00	-28.92	QP
4	15.30	-6.55	0.75	-5.80	22.00	-27.80	QP
5	19.52	-6.51	0.43	-6.08	22.00	-28.08	QP
6	25.30	-8.23	0.57	-7.66	22.00	-29.66	QP
N	lotes: F	mission	Level =	Read Level	+ Cable	loss	



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## 7 Immunity Test Results

#### 7.1 Performance Criteria Description in EN 61547:2009

Criterion A During the test no change of the luminous intensity shall be observed and

the regulating control, if any, shall operate during the test as intended.

Criterion B During the test the luminous intensity may change to any value. After the

Regulating controls need not function during the test, but after the test the mode of the control shall be the same as before the test provided that during

test the luminous intensity shall be restored to its initial value within 1 min.

the test no mode changing commands were given.

**Criterion C** During and after the test any change of the luminous intensity is allowed and

the lamp(s) may be extinguished. After the test, within 30 min, all functions shall return to normal if necessary by temporary interruption of the mains

supply and/or operating the regulating control.

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#### 7.2 Electrostatic Discharge

Test Requirement: EN 61547:2009
Test Method: EN 61000-4-2:2009

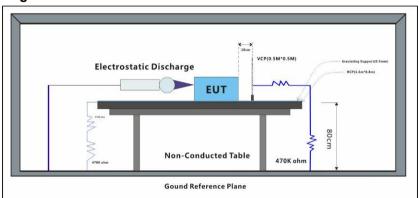
Performance Criterion: B

Discharge Impedance:  $330\Omega/150pF$ 

Number of Discharge: Minimum 10 times at each test point

Discharge Mode: Single Discharge
Discharge Period: 1 second minimum

#### 7.2.1 Test Setup Diagram



#### 7.2.2 E.U.T. Operation

**Operating Environment:** 

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode: a: Lighting Mode: Keep the lamp lighting continuously.

#### 7.2.3 Test Results:

Observations: Test Point:

1. All insulated enclosure and seams.

2. All accessible metal parts of the enclosure.

3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	Α
Air Discharge	2,4,8	-	1	Α
Contact Discharge	4	+	2	Α
Contact Discharge	4	-	2	Α
Horizontal Coupling	4	+	3	Α
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	А
Vertical Coupling	4	-	3	A

#### Results:

A: No degradation in the performance of the EUT was observed.



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## 7.3 Radiated Immunity (80MHz-1GHz)

Test Requirement: EN 61547:2009

Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010

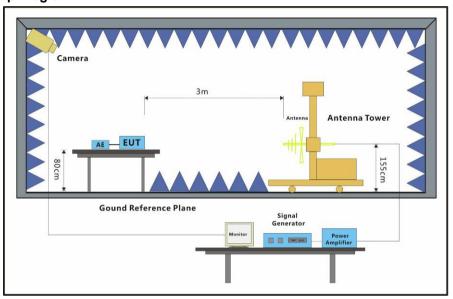
Performance Criterion: A

Frequency Range: 80MHz to 1GHz

Antenna Polarisation: Vertical and Horizontal

Modulation 1kHz,80% Amp. Mod,1% increment

#### 7.3.1 Test Setup Diagram



#### 7.3.2 E.U.T. Operation

**Operating Environment:** 

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1020 mbar

Test mode: a: Lighting Mode: Keep the lamp lighting continuously.

#### 7.3.3 Test Results:

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	А
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Тор	2s	А
80MHz-1GHz	3	Underside	2s	А

#### Results:

A: No degradation in the performance of the EUT was observed.





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# 8 Photographs

## 8.1 Radiated Emissions (30MHz-300MHz) Test Setup



## 8.2 Radiated Emissions (Magnetic field Induced Current)(9kHz-30MHz) Test Setup



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## 8.3 Electrostatic Discharge Test Setup



## 8.4 Radiated Immunity (80MHz-1GHz) Test Setup



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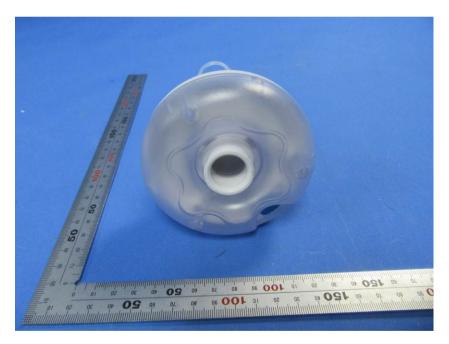




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## 8.5 EUT Constructional Details (EUT Photos)



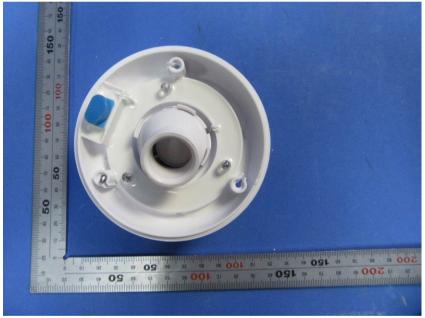






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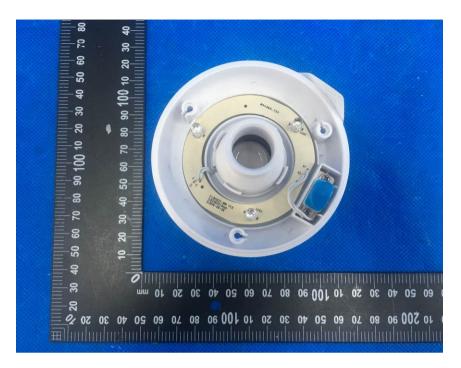








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- End of the Report -