



TEST REPORT

Test Report # 17A-003857-4 Date of Report Issue: November 15, 2017
Date of Sample Received: October 11, 2017 Pages: Page 1 of 32

Applicant: Mid Ocean Brands B.V.

Product Name: Hanging light

Brand Name: N/A

Model No. MO9255

Date of Receipt : Nov.20,2017

Date of Test: Nov.21-23, 2017

Date of Report: Nov. 29, 2017

Prepared by: Hangzhou Asiainspection Testing Technology Co.,Ltd.

The EMC testing has been performed on the submitted samples and found in compliance with the council EMC directive 2014/30/EU.

Hangzhou Asiainspection Testing Technology Co.,Ltd.
5th Floor, A2 Building, No. 1213, Huo Ju South Road,
Binjiang District, Hangzhou, China
Tel: +86-571-89997158



TEST REPORT

Test Report # 17A-003857-4 Date of Report Issue: November 15, 2017
 Date of Sample Received: October 11, 2017 Pages: Page 2 of 32

TABLE OF CONTENTS

Description	Page
Test Report Declaration.....	4
1. GENERAL INFORMATION	5
1.1. Description of Device (EUT).....	5
1.2. Operational Mode(s) of EUT	5
1.3. Test Voltage(s) of EUT	5
2. DESCRIPTION OF TEST STANDARD	6
3. LABORATORY INFORMATION.....	7
3.1. Laboratory Name	7
3.2. Location	7
3.3. Test facility	7
3.4. Measurement Uncertainty	7
4. SUMMARY OF TEST RESULTS.....	8
5. BLOCK DIAGRAM OF TEST SETUP	9
5.1. Block Diagram of connection between EUT and simulation-EMI	9
5.2. Block Diagram of connection between EUT and simulation-EMS	9
6. TEST INSTRUMENT USED	10
6.1. For Magnetic Test (In Shielding Room)	10
6.2. For Radiation Test (In Anechoic Chamber).....	10
6.3. For Electrostatic Discharge Immunity Test	10
6.4. For RF Strength Susceptibility Test	10
6.5. For Magnetic Field Immunity Test	11
7. MAGNETIC TEST	12
7.1. Configuration of Test System	12
7.2. Test Standard	12
7.3. Magnetic Field Emission Limit	12
7.4. Test Procedure	12
7.5. Radiated Disturbance Test Results	13
8. RADIATED DISTURBANCE TEST	14
8.1. Configuration of Test System	14
8.2. Test Standard	14
8.3. Radiated Disturbance Limit	14
8.4. Test Procedure	14
8.5. Radiated Disturbance Test Results	15
9. IMMUNITY PERFORMANCE CRITERIA.....	16
10. ELECTROSTATIC DISCHARGE IMMUNITY TEST	17
10.1. Configuration of Test System	17
10.2. Test Standard	17
10.3. Severity Levels and Performance Criterion	18
10.4. Test Procedure	18
10.5. Test Results.....	18
11. RF FIELD STRENGTH SUSCEPTIBILITY TEST.....	20



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 3 of 32

11.1. Configuration of Test System20
 11.2. Test Standard20
 11.3. Severity Levels and Performance Criterion20
 11.4. Test Procedure21
 11.5. Test Results.....21
12. MAGNETIC FIELD IMMUNITY TEST 23
 12.1. Configuration of Test System23
 12.2. Test Standard23
 12.3. Severity Levels and Performance Criterion 23
 12.4. Test Procedure 24
 12.5. Test Results 24

APPENDIX I
APPENDIX II (Test Photos)
APPENDIX III(Photos of the EUT)

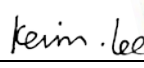



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 4 of 32

TEST REPORT DECLARATION

Report Number	MTE/AVJ/B17112369/1
Applicant	Mid Ocean Brands B.V.
Address	Unit 201,2/F, Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, HongKong
Product Name	Hanging light
Model No.	MO9255
Power Supply	DC 4.5V
Test Result	The EUT was found compliant with the requirement(s) of the standards.
Standard	EN 55015:2013+A1:2015, EN 61547:2009 (IEC 61000-4-2:2008, IEC 61000-4-3:2006+A1:2007+A2:2010, IEC 61000-4-8:2009)
<p>*Note The above device has been tested by Hangzhou AsiaInspection Technology Co., Ltd To determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test record, data evaluation & Equipment Under Test (EUT) configurations represented are contained in this test report and Hangzhou AsiaInspection Technology Co., Ltd Is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the requirement of the above standards.</p> <p>This report applies to above tested sample only. This report shall not be reproduced except in full, without written approval of Hangzhou AsiaInspection Technology Co., Ltd, this document may be altered or revised by Hangzhou AsiaInspection Technology Co., Ltd, personal only, and shall be noted in the revision of the document.</p>	
Approved by	  Technical manager



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 5 of 32

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Hanging light
Model Number	:	MO9255
Remark	:	N/A

1.2. Operational Mode(s) of EUT

Order Number	:	Test Mode(s)
1	:	ON

1.3. Test Voltage(s) of EUT

Order Number	:	Test Voltage(s)
1	:	DC 4.5V by Battery



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 6 of 32

2. DESCRIPTION OF TEST STANDARD

The intention of this publication is to establish uniform requirements for the radio disturbance level of the equipment contained in the scope, to fix limits of disturbance, to describe methods of measurement and to standardize operating conditions and interpretation of results.

The following referenced standard are indispensable for the application of this report.

Referenced Description below:

EN 55015:2013+A1:2015

Limits and methods of measurement of radio disturbance characteristics of electrical Torching and similar equipment.

EN 61547:2009

Equipment for general Torching purposes - EMC immunity requirements.



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 7 of 32

3. LABORATORY INFORMATION

3.1. Laboratory Name

Hangzhou Asiainspection Testing Technology Co.,Ltd.

3.2. Location

5th Floor, A2 Building, No. 1213, Huo Ju South Road, Binjiang District, Hangzhou, China

3.3. Test facility

- 3m Anechoic Chamber : Nov.28, 2012 File on Federal Communication Commission
Registration Number:490827

- Shielding Room : Nov.28, 2012 File on Federal Communication Commission
Registration Number:490827

- EMC Lab. : Accredited by TUV Rheinland Shenzhen
Audit Report: UA 50149851
Mar. 12, 2009

Accredited by Industry Canada
Registration Number: 7103A-1
Oct. 22, 2012

Accredited by TIMCO Registration
Number: Q1460
March 28, 2010

3.4. Measurement Uncertainty

No.	Item	Uncertainty
1.	Uncertainty for Conducted Disturbance Test	1.25dB
2.	Uncertainty for Radiated Disturbance Test	3.15dB



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 8 of 32

4. SUMMARY OF TEST RESULTS

EMISSION			
Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN 55015:2013+A1:2015	---	N/A
Magnetic test	EN 55015:2013+A1:2015	---	PASS
Radiated disturbance	EN 55015:2013+A1:2015	---	PASS
*Harmonic current emissions	EN 61000-3-2:2014	N/A	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013	N/A	N/A
IMMUNITY (EN 61547:2009)			
Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	IEC 61000-4-2:2008	B	PASS
Radio-frequency, Continuous radiated disturbance	IEC 61000-4-3:2006 +A1:2007+A2:2010	A	PASS
Electrical fast transient (EFT)	IEC 61000-4-4:2012	B	N/A
Surge (Input a.c. power ports)	IEC 61000-4-5:2014	B	N/A
Radio-frequency, Continuous conducted disturbance	IEC 61000-4-6:2013	A	N/A
Power frequency magnetic field	IEC 61000-4-8:2009	A	PASS
Voltage dips, 100% reduction	IEC 61000-4-11:2004	B	N/A
Voltage dips, 30% reduction		C	N/A
N/A is an abbreviation for Not Applicable.			



TEST REPORT

Test Report #

17A-003857-4

Date of Report Issue:

November 15, 2017

Date of Sample Received:

October 11, 2017

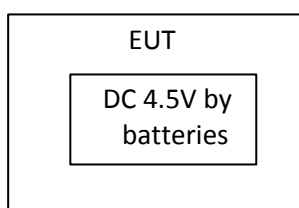
Pages:

Page 9 of 32

5. BLOCK DIAGRAM OF TEST SETUP

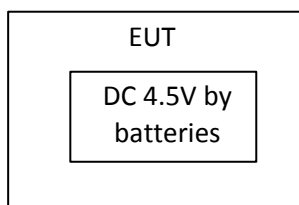
The equipments are installed test to meet EN 55015 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application. EUT was tested in normal configuration (Please See following Block diagrams)

5.1. Block Diagram of connection between EUT and simulation-EMI



(EUT: Hanging light)

5.2. Block Diagram of connection between EUT and simulation-EMS



(EUT: Hanging light)



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 10 of 32

6. TEST INSTRUMENT USED

6.1. For Magnetic Test (In Shielding Room)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Mar. 10, 17	1 Year
2.	Loop Antenna	Laplace	RF300	8006	Mar. 10, 17	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Mar. 10, 17	1 Year
4.	Coaxial Switch	Anritsu Corp	MP59B	6200283933	Mar. 07, 17	1 Year

6.2. For Radiation Test (In Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESPI	101202	Mar. 10, 17	1 Year
2.	Bilog Antenna	Sunol	JB3	A121206	Mar. 14, 17	1 Year
3.	Cable	Resenberger	N/A	NO.1	Mar. 07, 17	1 Year
4.	Cable	SchwarzBeck	N/A	NO.2	Mar. 07, 17	1 Year
5.	Cable	SchwarzBeck	N/A	NO.3	Mar. 07, 17	1 Year
6.	DC Power Filter	DuoJi	DL2□30B	N/A	N/A	N/A
7.	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	N/A	N/A
8.	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	N/A	N/A

6.3. For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	Zhongsheng	ESD-203AX	023K14538	Mar. 07, 17	1 Year

6.4. For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	IFR	2032	203002/100	Mar. 14, 17	1 Year
1.	Amplifier	A&R	150W1000	301584	NCR	NCR
2.	Dual Directional	A&R	DC6080	301508	Mar. 14, 17	1 Year
3.	Power Sensor	Anritsu	MA2491A	32263	Mar. 14, 17	1 Year
4.	Power Meter	R&S	NRVS	100444	Mar. 14, 17	1 Year
5.	Field Monitor	A&R	FM5004	300329	Mar. 14, 17	1 Year
6.	Field Probe	A&R	FP5000	300221	Mar. 14, 17	1 Year
7.	Log-periodic	A&R	AT1080	16512	Mar. 14, 17	1 Year
8.	RF Cable	MIYAZAKI	N/A	No.1/No.2	Mar. 07, 17	1 Year



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 11 of 32

6.5. For Magnetic Field Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMC PRO System	EM Test	UCS-500-M4	V0648102026	Mar. 10, 17	1 Year



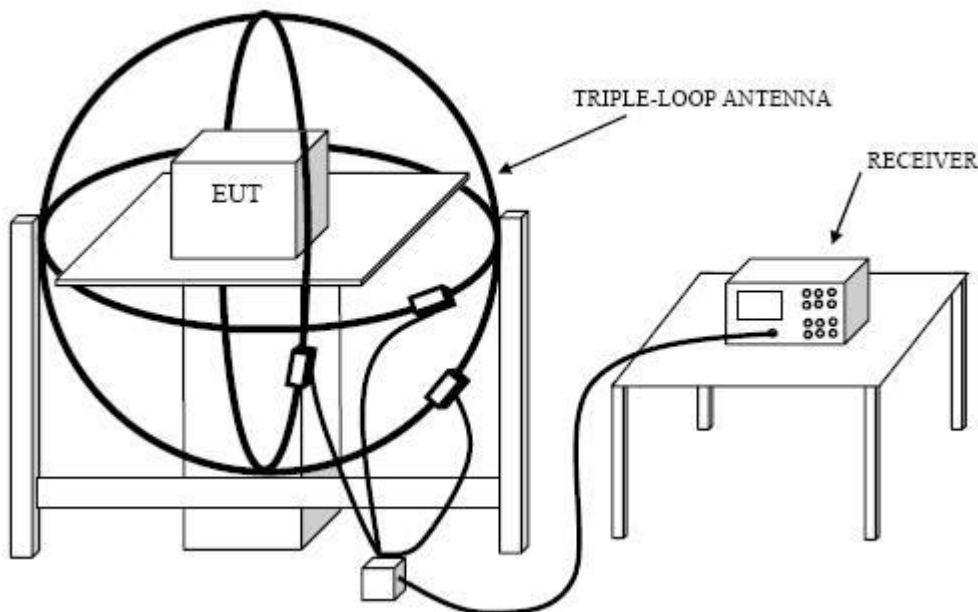
TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 12 of 32

7. MAGNETIC TEST

7.1. Configuration of Test System



7.2. Test Standard

EN 55015:2013+A1:2015

7.3. Magnetic Field Emission Limit

Frequency (MHz)	Limits for loop diameter (dBuA)	
	2m	
0.009~0.07	88	
0.07~0.15	88~58*	
0.15~3.00	58~22*	
3.00~30.0	22	

Note: 1. At the transition frequency the lower limit applies.

2. *decreasing linearly with logarithm of the frequency.

7.4. Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components are checked by means of a coax switch.

The frequency range from 9 KHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9 KHz to 150 KHz, the bandwidth of the field strength meter (R&S test receiver ESCI) is set at 200Hz. For frequency band 150 KHz to 30MHz, the bandwidth is set at 9 KHz.

The test result are reported on Section 7.5.



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 13 of 32

7.5. Radiated Disturbance Test Results

7.5.1. Test Results: PASS



TEST REPORT

Test Report #

17A-003857-4

Date of Report Issue:

November 15, 2017

Date of Sample Received:

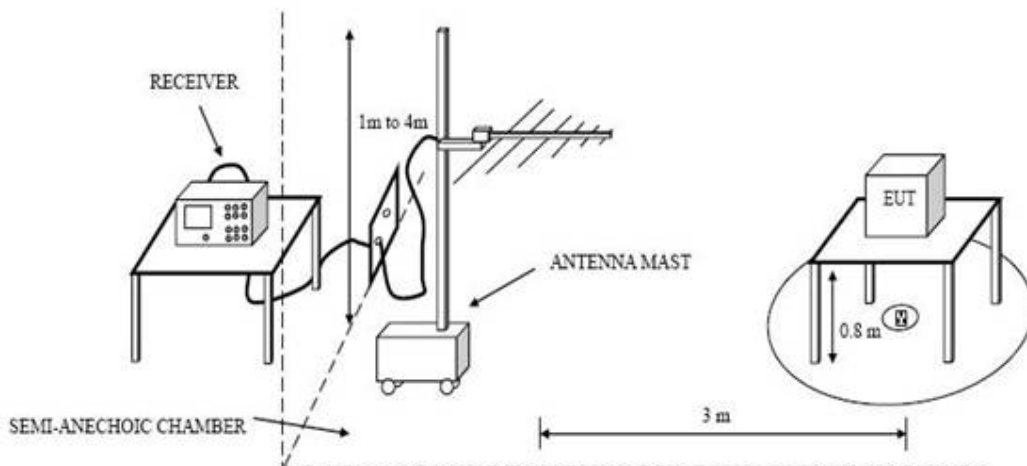
October 11, 2017

Pages:

Page 14 of 32

8. RADIATED DISTURBANCE TEST

8.1. Configuration of Test System



8.2. Test Standard

EN 55015:2013+A1:2015

8.3. Radiated Disturbance Limit

All emanations from devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	3	40
230 ~ 300	3	47

Note: 1.The lower limit shall apply at the transition frequencies.

2. Distance refers to the distance in meters between the test antenna and the closed point of any part of the EUT.

8.4. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to EN 55015 on Radiated Disturbance test.

The bandwidth setting on the test receiver is 120 kHz.

The frequency range from 30MHz to 300MHz is checked. The test result are reported on Section 8.5.



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 15 of 32

8.5. Radiated Disturbance Test Results

8.5.1. Test Results: PASS

8.5.2. Emission Level = Correct Factor + Reading Level.

8.5.3. All readings are Quasi-Peak values.

8.5.4. The test data and the scanning waveform are attached within Appendix I.



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 16 of 32

9. IMMUNITY PERFORMANCE CRITERIA

The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance level by its manufacturer or the requestor of the test, or the agreed between the manufacturer and the purchaser of the product.

Definition related to the performance level: Based on the used product standard
Based on the declaration of the manufacturer, requestor or purchaser

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

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 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.



TEST REPORT

Test Report #

17A-003857-4

Date of Report Issue:

November 15, 2017

Date of Sample Received:

October 11, 2017

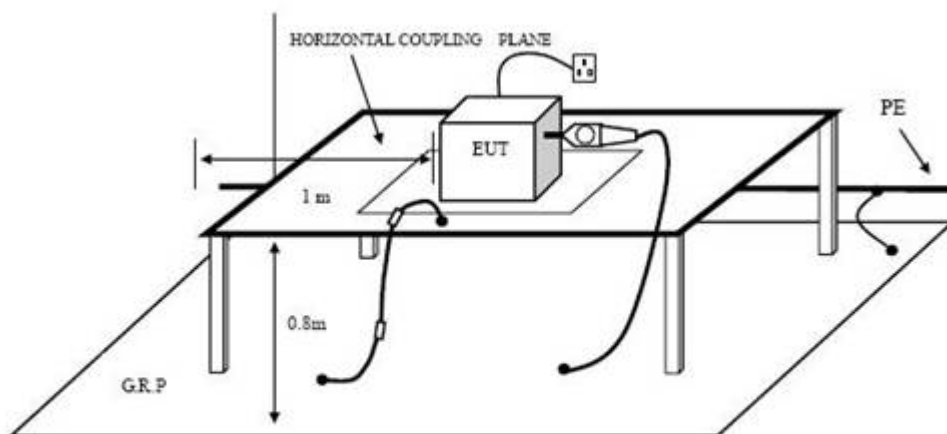
Pages:

Page 17 of 32

10. ELECTROSTATIC DISCHARGE IMMUNITY TEST

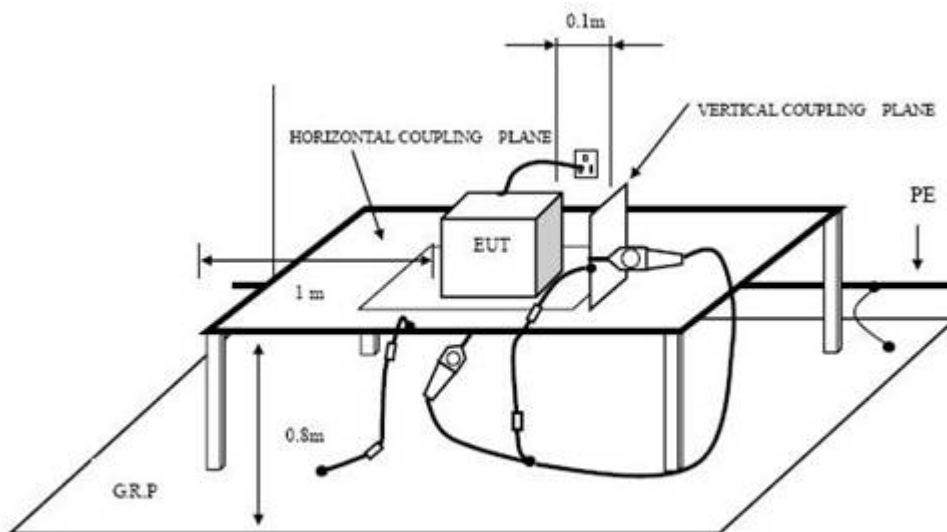
10.1. Configuration of Test System

10.1.1. Configuration of ESD Test System(Direct Discharge)



DIRECT DISCHARGE SETUP

10.1.2. Configuration of ESD Test System(Indirect Discharge)



INDIRECT DISCHARGE SETUP

10.2. Test Standard

EN 61547:2009 (IEC 61000-4-2:2008) (Severity Level 3 for Air Discharge at 8KV, Severity Level 2 for Contact Discharge at 4KV)



TEST REPORT

Test Report #

17A-003857-4

Date of Report Issue:

November 15, 2017

Date of Sample Received:

October 11, 2017

Pages:

Page 18 of 32

10.3. Severity Levels and Performance Criterion

10.3.1. Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X	Special	Special

10.3.2. Performance criterion : **B**

10.4. Test Procedure

10.4.1. Air Discharge:

The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure was repeated until all the air discharge completed

10.4.2. Contact Discharge:

All the procedure was same as Section 13.4.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch was operated.

10.4.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

10.4.4. Indirect discharge for vertical coupling plane

At least 20 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

10.5. Test Results

10.5.1. Test Results: PASS

10.5.2. Test data on the following pages.



TEST REPORT

Test Report #

17A-003857-4

Date of Report Issue:

November 15, 2017

Date of Sample Received:

October 11, 2017

Pages:

Page 19 of 32

Electrostatic Discharge Test Results

Test Voltage :	1	Test Date:	Oct.18,2017
Test Mode :	1	Criterion :	B
Temperature:	26°C	Humidity:	54%
Air Discharge: ±2,4 and 8KV		# For Air Discharge each Point Positive 10 times and negative 10 times discharge.	
Contact Discharge: ±4KV		# For Contact Discharge each point positive 10 times and negative 10 times discharge.	
Test Results Description			
Location	Kind A-Air Discharge C-Contact Discharge	Result	
Gaps	A	PASS	
Switch	A	PASS	
Screw	C	PASS	
HCP	C	PASS	
VCP of Front	C	PASS	
VCP of Rear	C	PASS	
VCP of Left	C	PASS	
VCP of Right	C	PASS	
Remark :			

Discharge was considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).



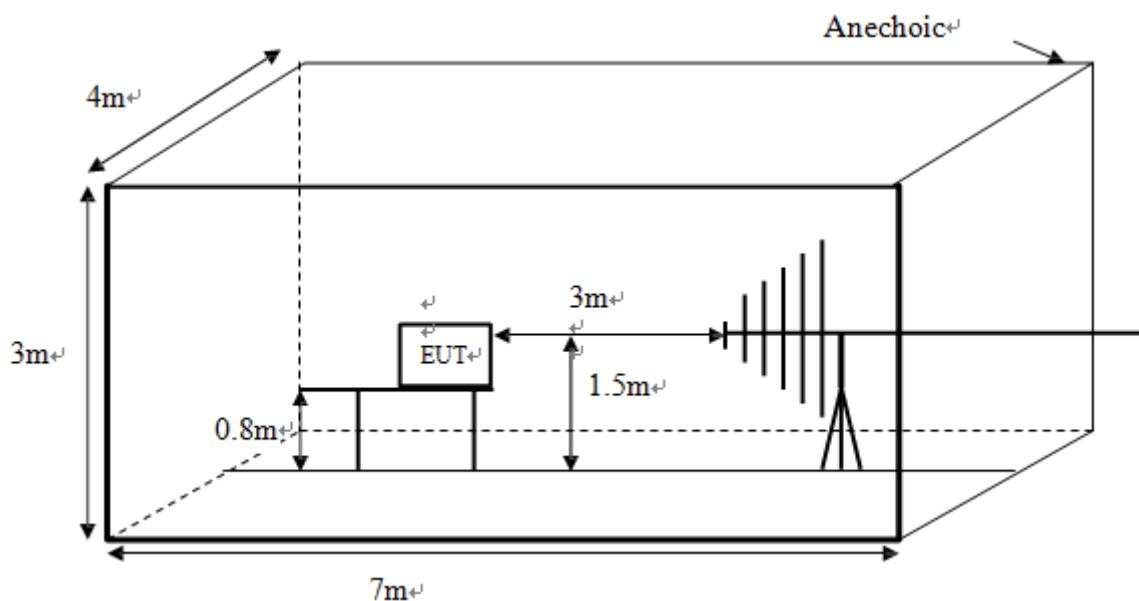
TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 20 of 32

11. RF FIELD STRENGTH SUSCEPTIBILITY TEST

11.1. Configuration of Test System



11.2. Test Standard

EN 61547:2009 (IEC 61000-4-3:2006+A1:2007+A2:2010) (Severity Level: 2 at 3V / m)

11.3. Severity Levels and Performance Criterion

11.3.1. Severity level

Level	Test Field Strength V/m
1.	1
2.	3
3.	10
X	Special

11.3.2. Performance criterion : A



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 21 of 32

11.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor the EUT.

All the scanning conditions are as follows :

Condition of Test	Remarks
1. Test Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	80% amplitude modulated with a 1kHz sine wave
3. Scanning Frequency	80 - 1000 MHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	1.5 Sec.

11.5. Test Results

11.5.1. Test Results: **PASS**

11.5.2. Test data on the following pages.



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 22 of 32

RF Field Strength Susceptibility Test Results

Test Voltage :	1	Test Date:	Nov.23,2017
Test Mode:	1	Frequency Range:	80-1000MHz
Field Strength :	3 V/m	Criterion :	A
Temperature:	25 °C	Humidity:	55%
Modulation:	<input type="checkbox"/> AM <input type="checkbox"/> Pulse <input type="checkbox"/> none 1 kHz 80%		

Test Results Description

Frequency Rang 1:
80MHz-1000 MHz

Steps	1%	1%
	Horizontal	Vertical
Front	PASS	PASS
Right	PASS	PASS
Rear	PASS	PASS
Left	PASS	PASS

Note: No function loss



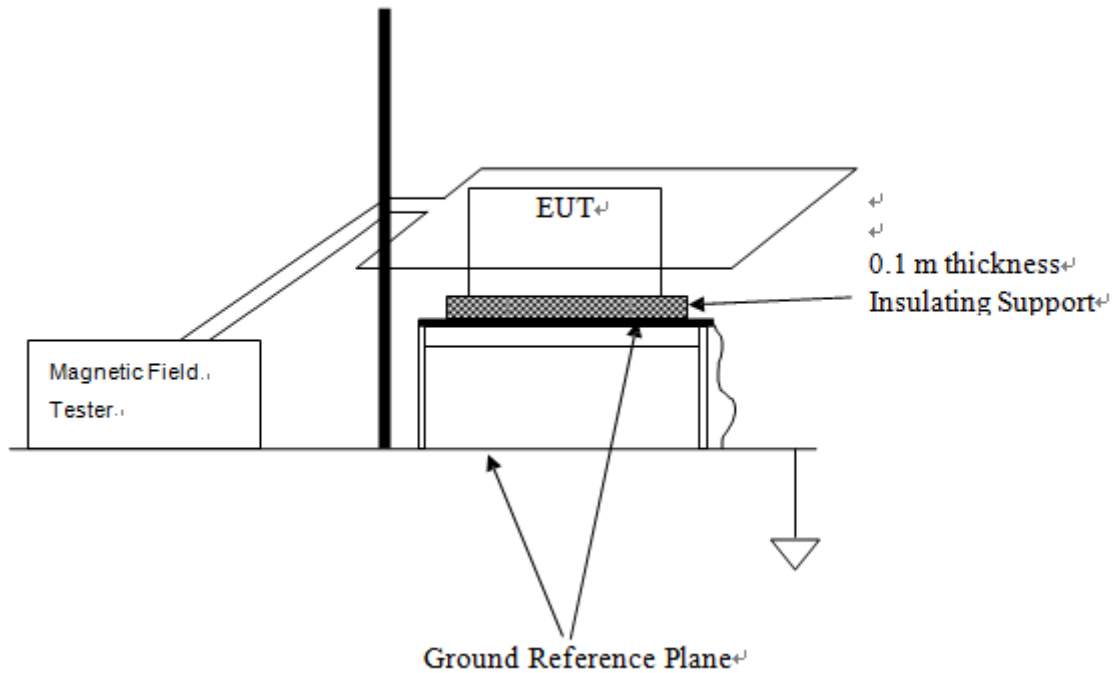
TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 23 of 32

12. MAGNETIC FIELD IMMUNITY TEST

12.1. Configuration of Test System



12.2. Test Standard

EN 61547:2009 (IEC 61000-4-8:2009)
(Severity Level 2 at 3A/m)

12.3. Severity Levels and Performance Criterion

12.3.1. Severity level

Level	Magnetic Field Strength A/m
1.	1
2.	3
3.	10
4.	30
5.	100
X.	Special

12.3.2. Performance criterion : A



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 24 of 32

12.4. Test Procedure

The EUT was subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m) and shown in Section 18.1. The induction coil was then rotated by 90° in order to expose the EUT to the test field with different orientations.

12.5. Test Results

12.5.1. Test Results: **PASS**

12.5.2. Test data on the following pages.



TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 25 of 32

Magnetic Field Immunity Test Results

Test Voltage :	1	Test Date:	Nov.23,2017
Test Mode :	1	Criterion :	A
Temperature:	25℃	Humidity:	55%

Test Results Description

Test Level	Testing Duration	Coil Orientation	Criterion	Result
3A/m(50Hz/60Hz)	5 mins	X	A	PASS
3A/m(50Hz/60Hz)	5 mins	Y	A	PASS
3A/m(50Hz/60Hz)	5 mins	Z	A	PASS

Remark: No function loss



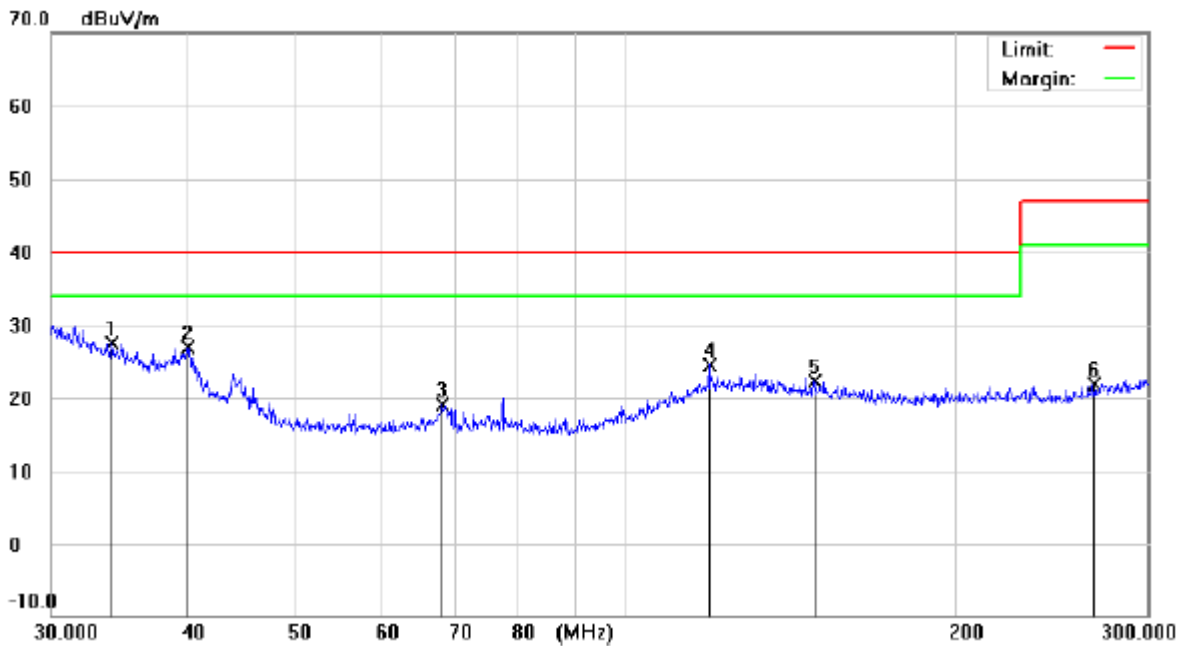
TEST REPORT

Test Report # 17A-003857-4
 Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
 Pages: Page 26 of 32

APPENDIX I

EUT:	Hanging light	M/N:	MO9255
Mode:	ON	Phase:	Vertical
Test by:	Joe	Power:	DC 4.5V by Battery
Temperature:/Humidity	24.0°C/ 51%	Test date:	2017-11-23



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	34.0503	9.38	18.15	27.53	40.00	-12.47	QP		
2		39.9136	13.02	13.86	26.88	40.00	-13.12	QP		
3		68.0959	10.97	8.17	19.14	40.00	-20.86	QP		
4		119.4322	10.92	13.68	24.60	40.00	-15.40	QP		
5		148.6351	9.60	12.80	22.40	40.00	-17.60	QP		
6		267.3753	9.51	12.39	21.90	47.00	-25.10	QP		

:Maximum data x:Over limit !:over margin

HANGZHOU ASIAINSPECTION TECHNOLOGY CO., LTD ♦ Email: Labtesting@asiainspection.com ♦ Tel: (86) 571 8999 7158
 ♦ 5/F A2 Building ♦ No. 1213 Huoju South Road ♦ Puyan Street ♦ Binjiang District ♦ Hangzhou ♦ China

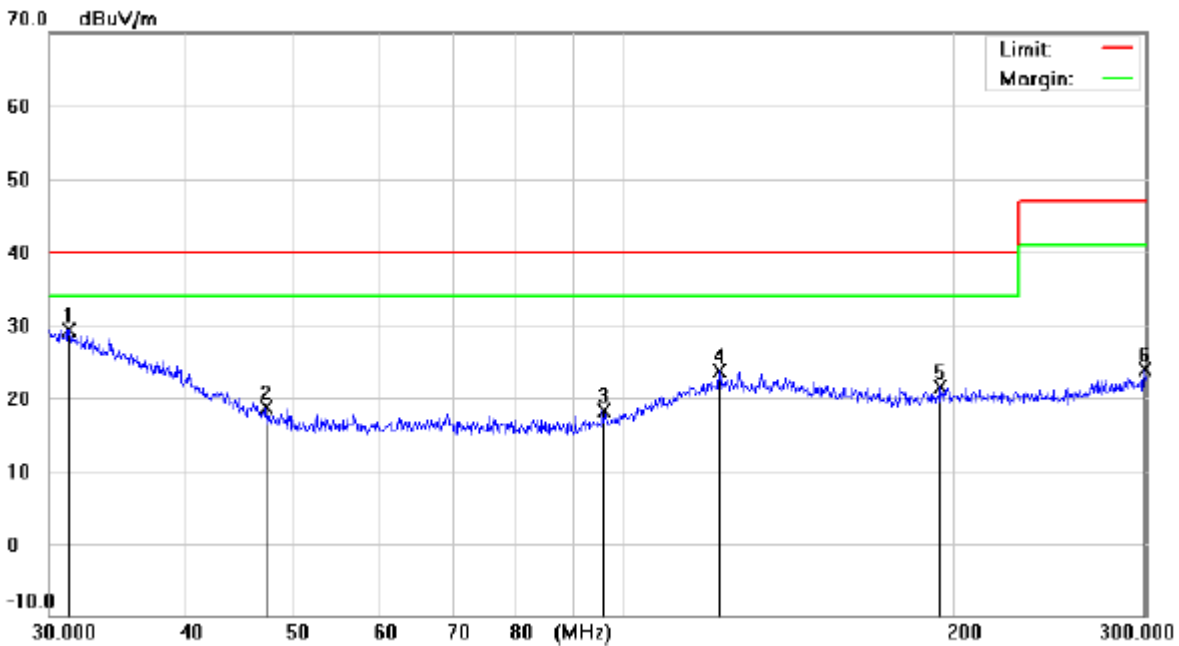
*The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
 This test report may not be reproduced in whole or in part, without written approval of Hangzhou Asiainspection Technology Co., Ltd*



TEST REPORT

Test Report # 17A-003857-4 Date of Report Issue: November 15, 2017
 Date of Sample Received: October 11, 2017 Pages: Page 27 of 32

EUT:	Hanging light	M/N:	MO9255
Mode:	ON	Phase:	Horizontal
Test by:	Joe	Power:	DC 4.5V by Battery
Temperature:/Humidity	24.0°C/ 51%	Test date:	2017-11-23



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	*	31.2695	9.33	20.04	29.37	40.00	-10.63	QP		
2		47.2195	9.26	9.43	18.69	40.00	-21.31	QP		
3		95.9669	9.45	8.91	18.36	40.00	-21.64	QP		
4		122.4958	9.73	13.90	23.63	40.00	-16.37	QP		
5		195.0389	9.43	12.05	21.48	40.00	-18.52	QP		
6		299.3100	10.35	13.48	23.83	47.00	-23.17	QP		

*:Maximum data x:Over limit !:over margin



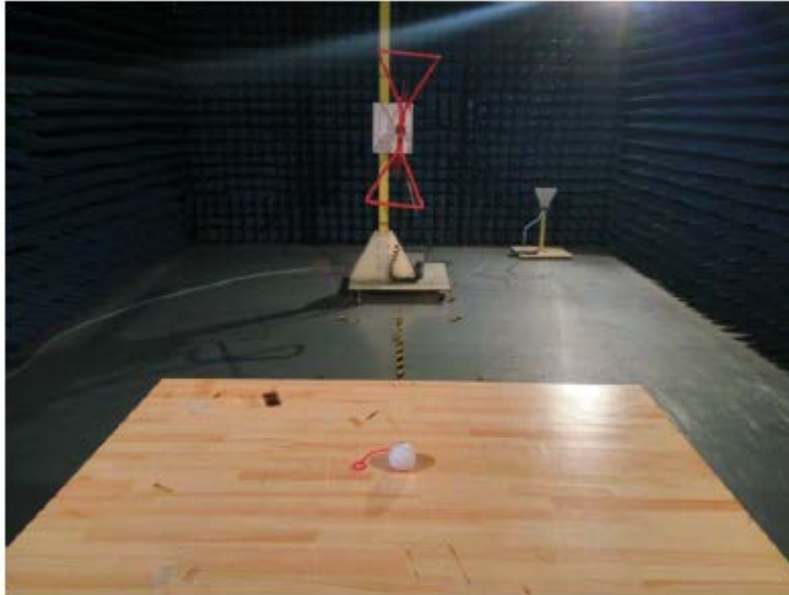
TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 28 of 32

APPENDIX II (Test Photos)

Radiated Test Setup Photograph



ESD Test Setup Photograph





TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 29 of 32

APPENDIX III(Photos of the EUT)

Figure 1
General Appearance of the EUT

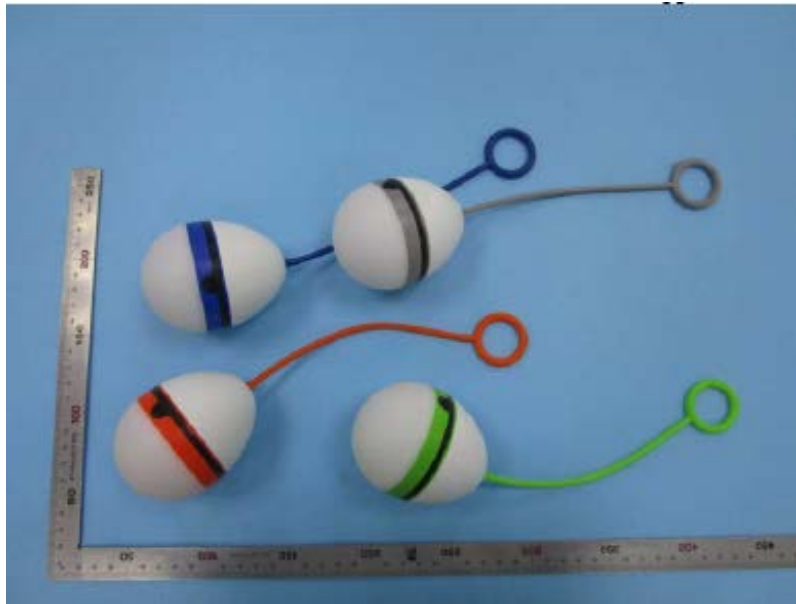
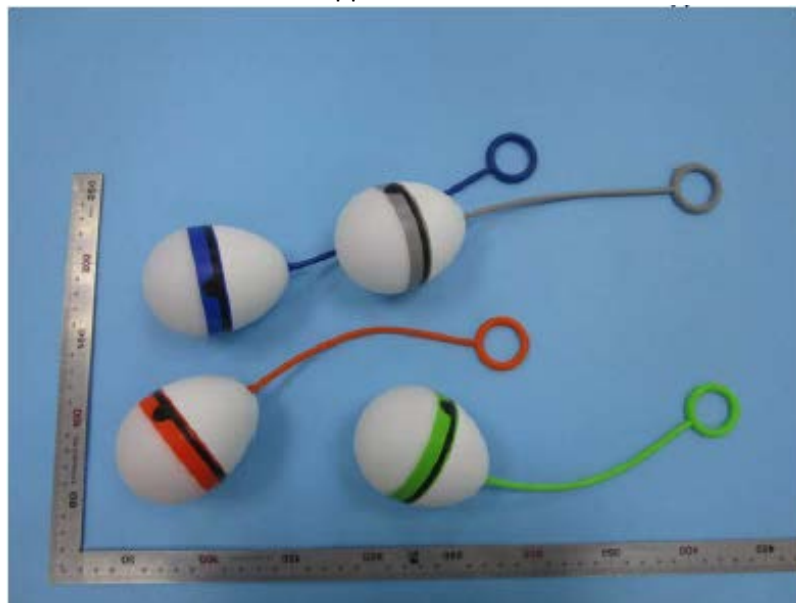


Figure 2
General Appearance of the EUT





TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 30 of 32

Figure 3
General Appearance of the EUT

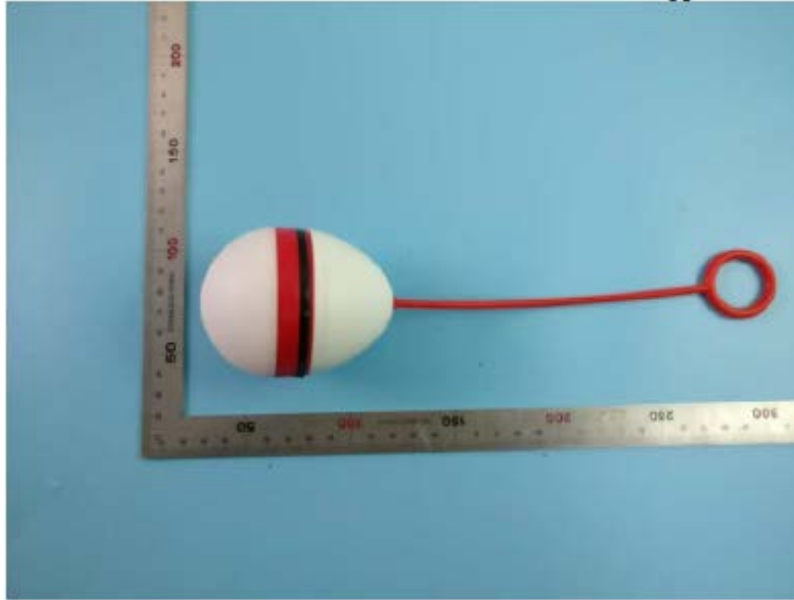
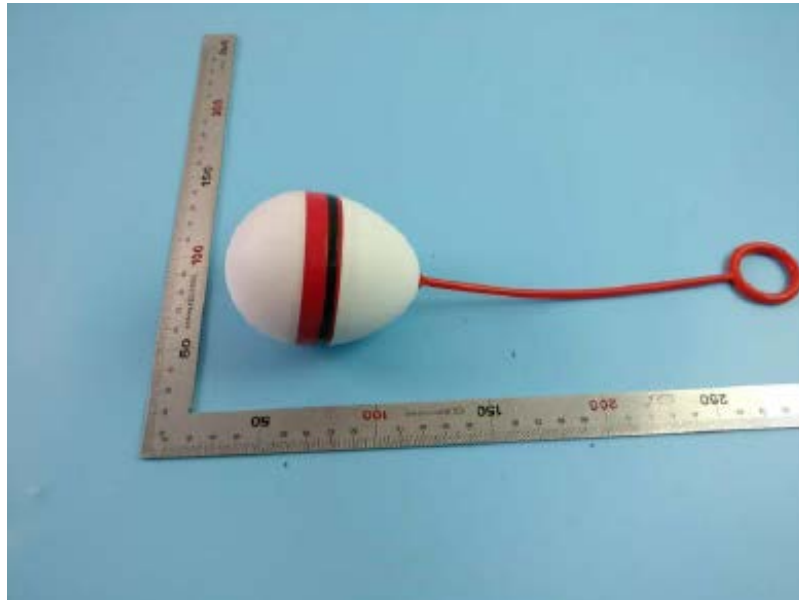


Figure 4
General Appearance of the ETU





TEST REPORT

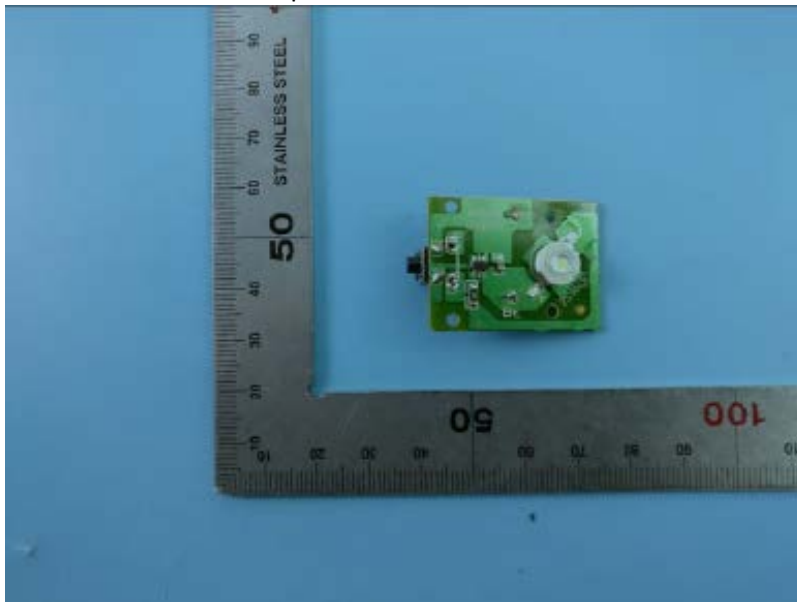
Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 31 of 32

Figure 5
Inside of the ETU



Figure 6
Components Side of the PCB



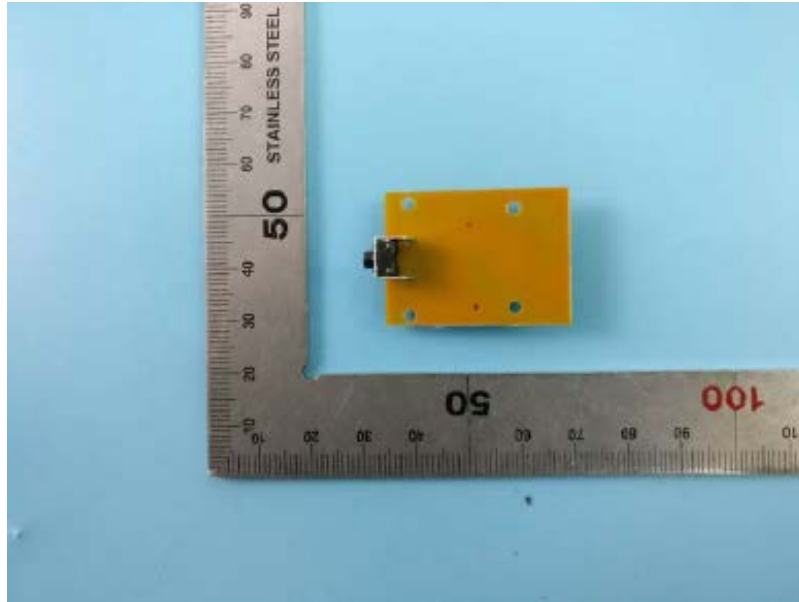


TEST REPORT

Test Report # 17A-003857-4
Date of Sample Received: October 11, 2017

Date of Report Issue: November 15, 2017
Pages: Page 32 of 32

Figure 6
Components side of the PCB



***** End of Report *****