



# TEST REPORT

Report No.: STSGZ2209223047E

Date: 11-Oct-2022

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**Applicant :** Mid Ocean Brands B.V.

**Address:** 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

**Product Name:** 2 bicycle lights in PP box

**Model/Style/Item #:** MO8070

**Receiving Date:** 22-Sep-2022

**Test Period:** From 22-Sep-2022 to 30-Sep-2022

**Add Information:** -

## Report Summary

#	Test item(s)	Reference Standard/Method	Result
1	EMC test - The Council EMC directive 2014/30/EU	EN IEC 55015:2019+A11:2020, EN 61547:2009 (IEC 61000-4-2:2009, IEC 61000-4-3:2020+A1:2007+A2:2010, IEC 61000-4-8:2010)	<b>PASS</b>

\*\*\*\*\*Please refer to the following page for detailed results\*\*\*\*\*

Signed for and on behalf of STS

Bovey Yang  
(Electrical Test Manager)



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## Result:

### 1. GENERAL INFORMATION

#### 1.1 Description of Device (EUT)

Description	:	2 bicycle lights in PP box
Model Number	:	MO8070
Remark	:	/

#### 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	:	DC3V by Battery

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## 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 IEC 55015:2019+A11:2020

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.

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## 3. SUMMARY OF TEST RESULTS

EMISSION			
Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN IEC 55015:2019+A11:2020	---	N/A
Magnetic test	EN IEC 55015:2019+A11:2020	---	PASS
Radiated disturbance	EN IEC 55015:2019+A11:2020	---	PASS
*Harmonic current emissions	EN IEC 61000-3-2:2019+A1:2021	N/A	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013+A1:2019	N/A	N/A
IMMUNITY (EN 61547:2009)			
Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	EN 61000-4-2:2009	B	PASS
Radio-frequency, Continuous radiated disturbance	EN IEC 61000-4-3:2020	A	PASS
Electrical fast transient (EFT)	EN 61000-4-4:2012	B	N/A
Surge (Input a.c. power ports)	EN 61000-4-5:2014+A1:2017	B	N/A
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6:2014	A	N/A
Power frequency magnetic field	EN 61000-4-8:2010	A	PASS
Voltage dips, 100% reduction	EN IEC 61000-4-11:2020	B	N/A
Voltage dips, 30% reduction		C	N/A
N/A is an abbreviation for Not Applicable.			

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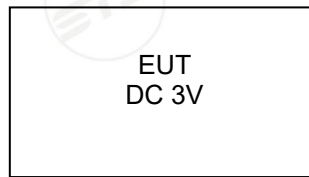
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## 4. BLOCK DIAGRAM OF TEST SETUP

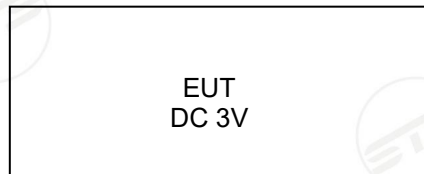
The equipments are installed test to meet EN 55015 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application. EUT was tested in normal configuration (Please See following Block diagrams)

### 4.1 Block Diagram of connection between EUT and simulation-EMI



(EUT: 2 bicycle lights in PP box)

### 4.2 Block Diagram of connection between EUT and simulation-EMS



(EUT: 2 bicycle lights in PP box )

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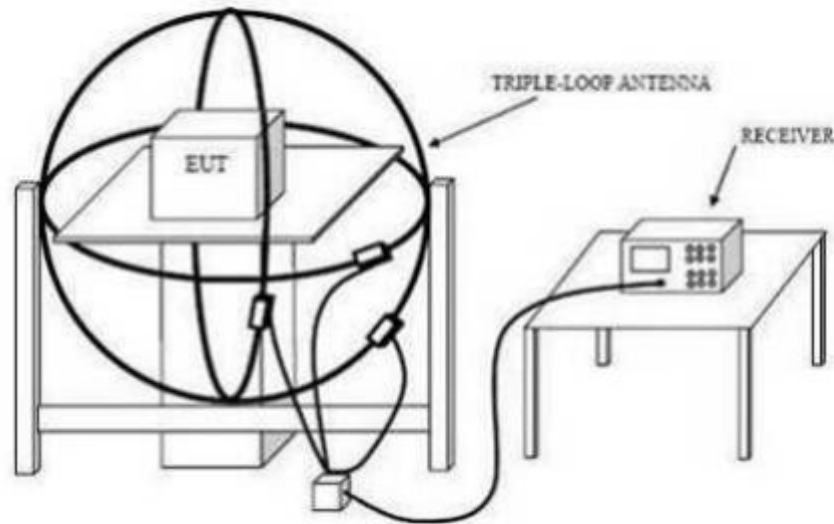
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## 5. MAGNETIC TEST

### 5.1 Configuration of Test System



### 5.2 Test Standard

EN IEC 55015:2019+A11:2020

### 5.3 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.



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## 5.4 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 5.5.

## 5.5.Radiated Disturbance Test Results

5.5.1.Test Results: **PASS**

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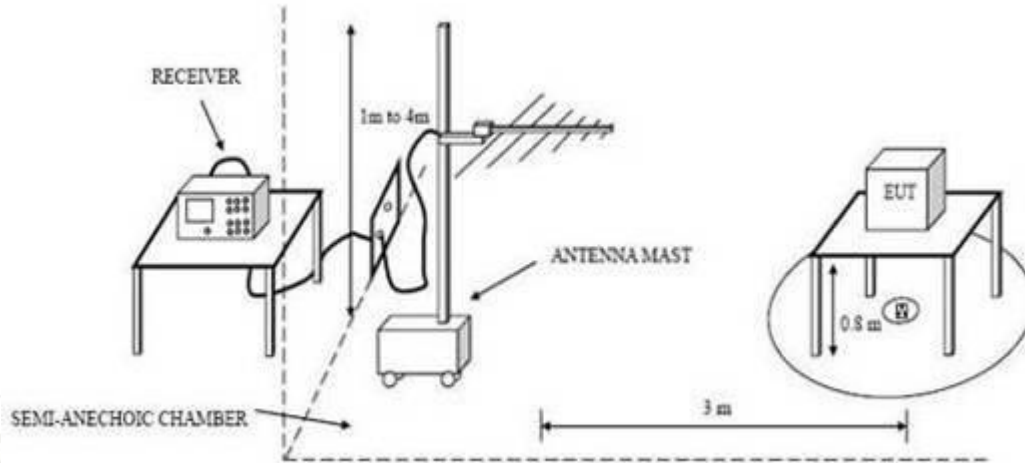
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## 6. MAGNETIC TEST

### 6.1 Configuration of Test System



### 6.2 Test Standard

EN IEC 55015:2019+A11:2020

### 6.3 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 $\mu$ V/m)
30 ~ 230	3	40
230 ~ 1000	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.





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## 6.4 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 IEC 55015 on Radiated Disturbance test.

The bandwidth setting on the test receiver is 120 kHz.

The frequency range from 30MHz to 1000MHz is checked. The test result are reported on Section 6.5.

## 6.5.Radiated Disturbance Test Results

6.5.1.Test Results: **PASS**

6.5.2.Emission Level= Correct Factor + Reading Level.

6.5.3.All reading are Quasi-Peak values.

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

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## 7. 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.

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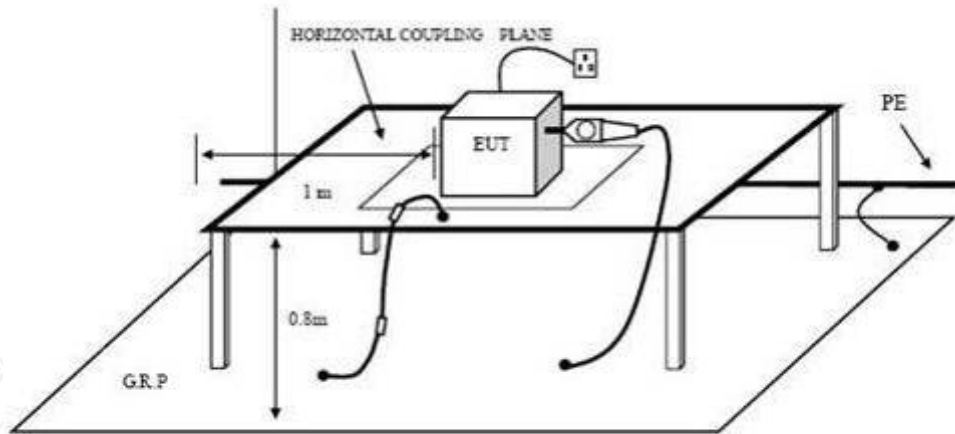
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# TEST REPORT

## 8. ELECTROSTATIC DISCHARGE IMMUNITY TEST

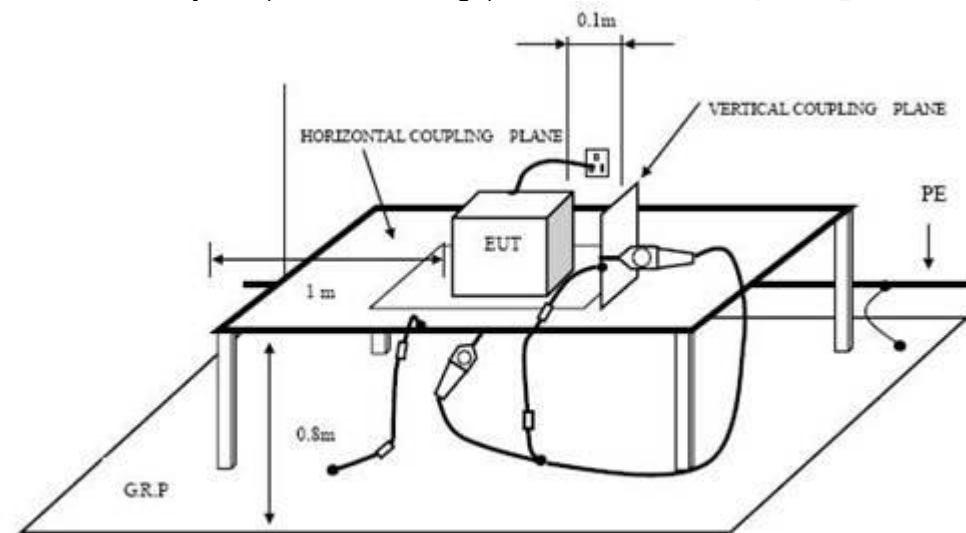
### 8.1 Configuration of Test System

#### 8.1.1 Configuration of ESD Test System(Direct Discharge)



DIRECT DISCHARGE SETUP

#### 8.1.2 Configuration of ESD Test System(Indirect Discharge)



INDIRECT DISCHARGE SETUP

### 8.2 Test Standard

EN 61547:2009 (EN 61000-4-2)

(Severity Level 3 for Air Discharge at 8KV, Severity Level 2 for Contact Discharge at 4KV)

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## 8.3 Severity Levels and Performance Criterion

### 8.3.1 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

### 8.3.2 Performance criterion : **B**

## 8.4 Test Procedure

### 8.4.1. 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

### 8.4.2. 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.

### 8.4.3. 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.

### 8.4.4. 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.

## 8.5 Test Results

### 8.5.1 Test Results: **PASS**

### 8.5.2 Test data on the following pages.

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## Electrostatic Discharge Test Results

Test Voltage :	1	Test Date:	Sep.26,2022
Test Mode :	1	Criterion :	B
Temperature:	31°C	Humidity:	52%
Air Discharge: $\pm 2,4$ and 8KV		# For Air Discharge each Point Positive 10 times and negative 10 times discharge.	
Contact Discharge: $\pm 4$ KV		# For Contact Discharge each point positive 10 times and negative 10 times discharge.	
Test Results Description			
<b>Location</b>	<b>Kind</b> A-Air Discharge C-Contact Discharge		<b>Result</b>
Gaps	A		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).

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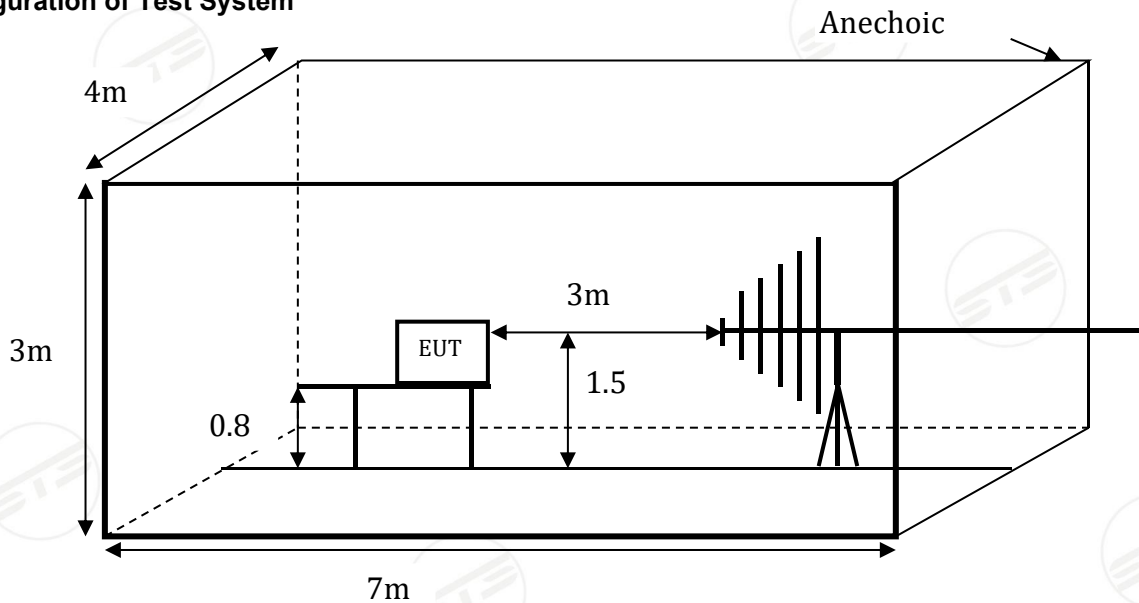
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# TEST REPORT

## 9. RF FIELD STRENGTH SUSCEPTIBILITY TEST

### 9.1 Configuration of Test System



### 9.2 Test Standard

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

### 9.3 Severity Levels and Performance Criterion

#### 9.3.1 Severity level

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

#### 9.3.2 Performance criterion : A



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## 9.4 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.

## 9.5 Test Results

9.5.1 Test Results: **PASS**

9.5.2 Test data on the following pages

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## RF Field Strength Susceptibility Test Results

Test Voltage :	1	Test Date:	Sep.26,2022
Test Mode:	1	Frequency Range:	80-1000MHz
Field Strength :	3 V/m	Criterion :	A
Temperature:	31.0℃	Humidity:	52%
Modulation:	AM	Pulse	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			

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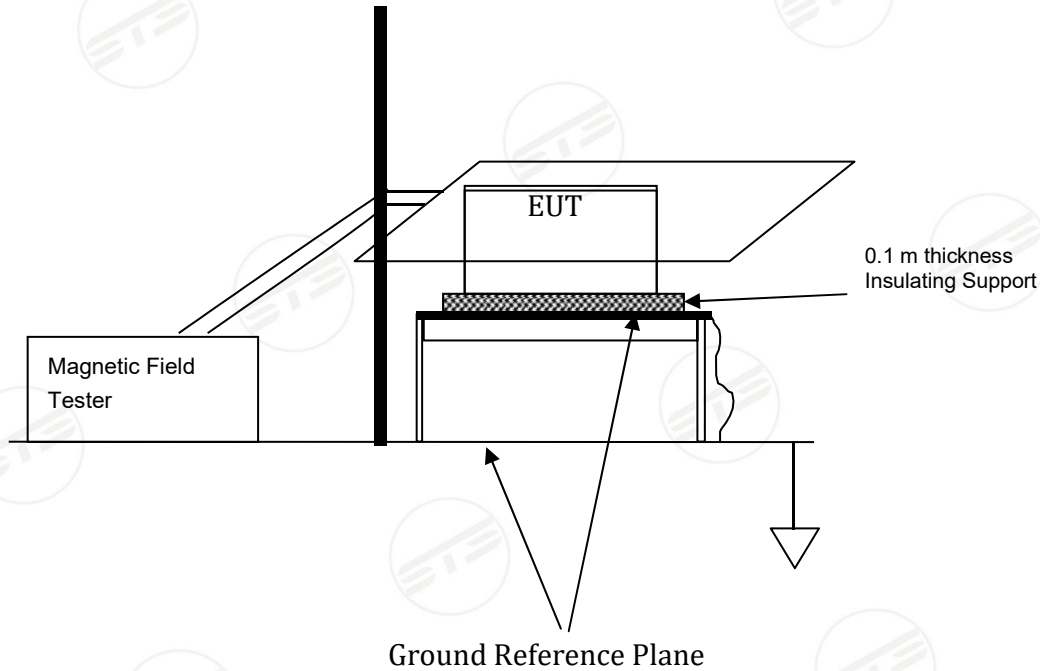
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# TEST REPORT

## 10. MAGNETIC FIELD IMMUNITY TEST

### 10.1 Configuration of Test System



### 10.2 Test Standard

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

### 10.3 Severity Levels and Performance Criterion

#### 10.3.1 Severity level

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

#### 10.3.2 Performance criterion : **A**

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## 10.4 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.

## 10.5 Test Results

10.5.1 Test Results: **PASS**

10.5.2 Test data on the following pages.

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## Magnetic Field Immunity Test Results

Test Voltage :	1	Test Date:	Sep.26,2022	
Test Mode :	1	Criterion :	A	
Temperature:	31.0°C	Humidity:	52%	
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				

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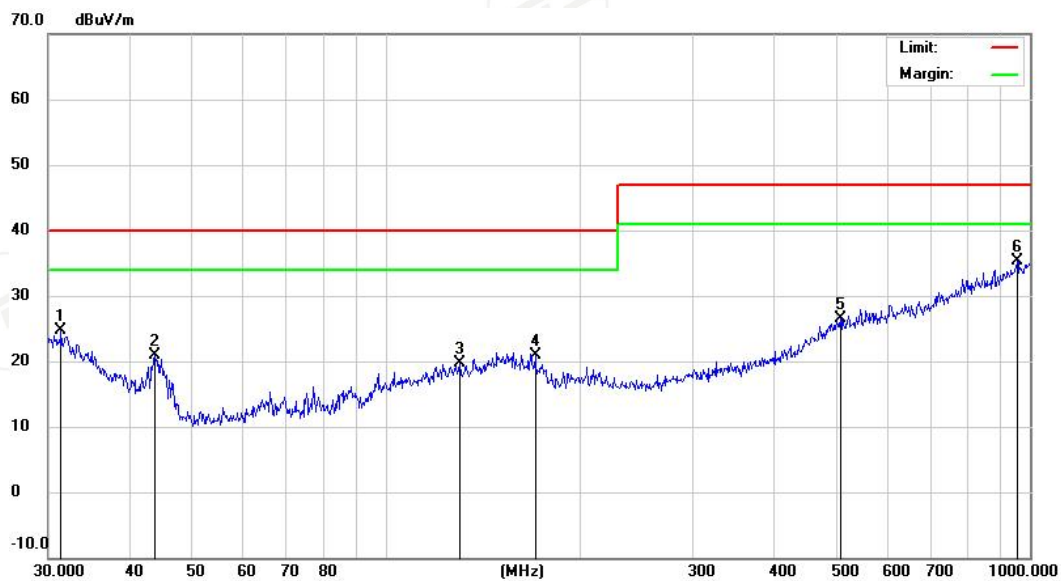
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## APPENDIX I

<b>EUT:</b>	2 bicycle lights in PP box	<b>M/N:</b>	MO8070
<b>Mode:</b>	ON	<b>Polarization:</b>	Vertical
<b>Test by:</b>	rose	<b>Power:</b>	DC3V by Battery
<b>Temperature: / Humidity</b>	25.0°C/ 55.0%	<b>Test date:</b>	2022-09-26



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	31.3992	4.80	19.95	24.75	40.00	-15.25	QP			
2	43.8119	9.62	11.28	20.90	40.00	-19.10	QP			
3	130.3789	3.52	16.14	19.66	40.00	-20.34	QP			
4	170.7926	3.99	16.94	20.93	40.00	-19.07	QP			
5	508.2582	3.77	22.79	26.56	47.00	-20.44	QP			
6 *	955.4381	5.83	29.55	35.38	47.00	-11.62	QP			

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

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Guangzhou Depuhua Test Services Co. Ltd.

A301, 3/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong    e-mail: stsgz@stsapp.com  
 Phone: +86 (0)20-6664 1688    Fax: +86 (0)20-6664 1699    Web://www.stsgz.com



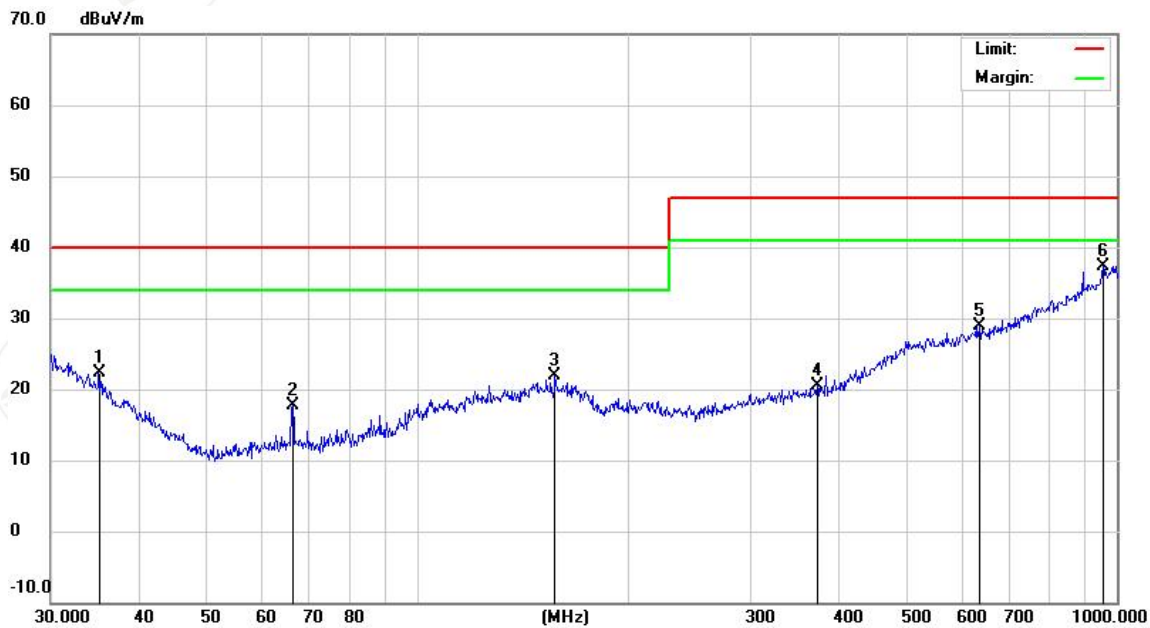
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<b>EUT:</b>	2 bicycle lights in PP box	<b>M/N:</b>	MO8070
<b>Mode:</b>	ON	<b>Polarization:</b>	Horizontal
<b>Test by:</b>	rose	<b>Power:</b>	DC3V by Battery
<b>Temperature: / Humidity</b>	25.0°C/ 55.0%	<b>Test date:</b>	2022-09-26



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		35.1278	4.95	17.41	22.36	40.00	-17.64	QP		
2		66.4989	8.56	9.05	17.61	40.00	-22.39	QP		
3		157.5588	4.58	17.40	21.98	40.00	-18.02	QP		
4		373.3112	3.58	16.89	20.47	47.00	-26.53	QP		
5		636.1340	4.57	24.27	28.84	47.00	-18.16	QP		
6	*	955.4381	7.76	29.55	37.31	47.00	-9.69	QP		

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

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## Photo(s):



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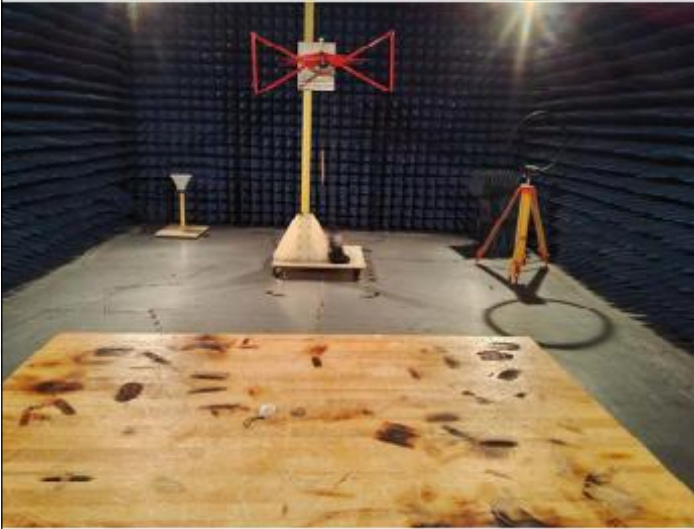


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RADIATED Test Setup Photograph



ESD Test Setup Photograph



General Appearance of the EUT



General Appearance of the EUT

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Internal of the EUT	Internal of the EUT
	/
Internal of the EUT	/
Product Photo	

<<< <<< END OF REPORT >>> >>>

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## 声明 Statement

- 本检测报告首页所列信息中除样品来源、接样日期、检测日期、检测结果和检测结论外，均由委托方提供，委托方对样品的代表性和资料的真实性负责，本实验室不承担任何相关责任。  
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For other statements, please refer to the footer of the report.

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# 签发测试报告条款

## Conditions of Issuance of Test Reports

1. 广州市德普华检测技术有限公司(以下简称[公司])为提供符合下述条款的测试和报告,而接受有关样品和货品。本公司基于下述条款提供服务,下述条款为本公司与申请服务的个人、企业或公司(以下简称[客户])的协议。

All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. 由此测试申请所发出的任何报告(以下简称[报告]),本公司会严格为客户保密。未经本公司的书面同意,报告的整体或部分不得复制,也不得用于广告或授权的其他用途。然而,客户可以将本公司印制的报告或认可的副本,向其客户、供货商或直接相关的其它人出示或提交。除非相关政府部门、法律或法规要求,否则未经客户同意,本公司不得将报告内容向任何第三方讨论或披露。

Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court order.
3. 除非相关政府部门、法律或法院要求,否则未经公司预先书面同意,本公司毋需,也并无义务到法院对有关报告作证。

The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 除非本公司进行抽样,并已在报告中说明,否则报告中适用于送测的样品(样品信息为客户提供),不适用于批量。

The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
5. 如果本公司确定报告被不当地使用,本公司保留撤回报告的权利,并有权要求其它适当的额外赔偿。

In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. 本公司接受样品进行测试的前提是,该测试报告不能作为针对本公司法律行动的依据。

Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. 如因使用本公司中心任何报告内的资料,或任何传播信息所描述与之有关的测试或研究导致的任何损失或损害,本公司概不负责。

The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. 若需要在法院审理程序或者仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。

Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
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