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# **EMC** Test Report

Foshan kaicheng lightling co., Itd Client Name

No. 16 Xingyexi Road, Shishan, Nanhai District, Foshan Address

52800, China

**Product Name** Solar Street light

Jul. 02, 2020 Date

Compliance Laboration Anbotek Product Safety Shenzhen Anbotek Compliance Laboratory Limited



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## TEST REPORT

**Applicant** Foshan kaicheng lightling co., Itd

Manufacturer Foshan kaicheng lightling co., Itd

**Product Name** Solar Street light

Model No. TR01-C, TR01-A, TR01-B

Trade Mark N.A.

Rating(s) Operating Voltage: 3.2V; Operating Current: 31.25A; Max power: 100W;

Battery: 3.2V, 40 Ah

Test Standard(s) EN 55015: 2013+A1: 2015;

EN 61547: 2009;

(IEC 61000-4-2; IEC 61000-4-3)

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the EN 55015 and EN 61547 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:	Jun. 17, 2020
Date of Test:	Jun. 17~28, 2020
	Winnie Huang
Prepared By:	aborek Anbo L Anborek Anbore
Anbotek Anbotek Anbotek Anbotek	(Engineer / Winnie Huang)
Reviewer:	Well wang
	(Supervisor / Well Wang)
	Tou chen
Approved & Authorized Signer:	Anbote Ann ak abotek Anbo
Anbor An otek anbote And tek	(Manager / Tom Chen)

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-EMC-02-l Hotline 400-003-0500



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## 1. General Information

#### 1.1. Client Information

Applicant	: 150	Foshan kaicheng lightling co., ltd
Address		No. 16 Xingyexi Road, Shishan, Nanhai District, Foshan 52800 , China
Manufacturer	:	Foshan kaicheng lightling co., ltd
Address	:	No. 16 Xingyexi Road, Shishan, Nanhai District, Foshan 52800 , China
Factory	: 100	Foshan kaicheng lightling co., ltd
Address	: 9	No. 16 Xingyexi Road, Shishan, Nanhai District, Foshan 52800 , China

## 1.2. Description of Device (EUT)

DAY.		T6. 70. 76. 70. 50.
Product Name	:	Solar Street light
Model No.	:	TR01-C, TR01-A, TR01-B (Note: All samples are the same except the model number & appearance, so we prepare "TR01-C" for test only.)
Trade Mark	:	N.A.
Test Power Supply	:	DC 3.2V via Solar Panel / DC 3.2V
Test Sample No.	:	1-1-1
Product Description	:	Adapter: N/A
Remark: (1) For a m	nore	e detailed features description, please refer to the manufacturer's specifications

## 1.3. Auxiliary Equipment Used During Test

or the User's Manual.

N/A	Aupoten	Aupralek	anbotek	Aupola	b11.
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#### 1.4. Description of Test Modes

Pretest Modes	Descriptions
Mode 1	Solar Charging
Mode 2	Arrivotek Ambotek Ambotek Ambotek Ambotek

For Mode 1~ Mode 2 Block Diagram of Test Setup

EUT

## 1.5. Test Summary

Test Items	Test Modes	Status		
Power Line Conducted Emission Test (9KHz To 30MHz)	Anbotes Ans	abotek N Anbotel		
Radiated Emission Test (30MHz To 1000MHz)	Mode 1 Mode 2	Anbotek P Anbr		
Magnetic Radiated Emission Test (9KHz To 30MHz)	Mode 2	Potek		
Electrostatic Discharge immunity Test	Mode 1 Mode 2	lek Pipotek		
RF Field Strength susceptibility Test	Mode 1 Mode 2	poles P Anbo		
Electrical Fast Transient/Burst Immunity Test	e Anbo	Anbotek Ar		
Surge Immunity Test	notek / Anbotek	Anhores		
Injected Currents Susceptibility Test	Amborek / Ambo	N N Notek		
Voltage Dips and Interruptions Test	Anbotek Ar	anbotek N Anbot		
P) Indicates "PASS".  N) Indicates "Not applicable"	Yek Yupon	Anbotek An		

N) Indicates "Not applicable"



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## 1.6. Test Equipment List

#### Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.80	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 04, 2019	1 Year
2.	Pre-amplifier	Schwarzbeck	BBV-9745	9745-075	Nov. 04, 2019	1 Year
3.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	Nov. 01, 2019	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	EMEC-3A1	N/A	N/A	N/A

Magnetic Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 04, 2019	1 Year
2.	Triple-Loop Antenna(2M)	EVERFINE	LLA-2	905003	Nov. 04, 2019	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 04, 2019	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

**Electrostatic Discharge Measurement** 

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
3011.	ESD Simulators	emtest	ESD NX30.1	11891	Mar. 07, 2020	1 Year

R/S Immunity Measurement

70 111	iniunity Measureme	1100	100°	Dir	The same of the sa	207
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1 ps	Signal Generator	Agilent	N5182A	MY4818065 6	Nov. 04, 2019	1 Year
2	Amplifier	Micotoop	MPA-80-100 0-250	MPA190309 6	Nov. 04, 2019	1 Year
3	Amplifier	Micotoop	MPA-1000-6 000-100	MPA190312 2	Nov. 04, 2019	1 Year
4	Log-Periodic Antenna	Schwarzbeck	VULP9118E	00992	Apr. 17, 2020	1 Year
5	Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 01, 2019	1 Year
6	Power Sensor	Agilent	E9301A	MY4149890 6	Nov. 04, 2019	1 Year
7	Power Sensor	Agilent	E9301A	MY4149808 8	Nov. 04, 2019	1 Year
8	Power Meter	Agilent	E4419B	GB4020290 9	Nov. 04, 2019	1 Year
9	Field Probe	ETS-Lindgren	HI-6006	00212747	Apr. 17, 2020	1 Year
10	software	EMtrace	EM 3	N/A	N/A	N/A

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#### 1.7. Description of Test Facility

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

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 27, 2019.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

#### 1.8. EMS Performance Criteria

- √ A: Normal performance within the specification limits
- B: Temporary degradation or loss of function or performance which is self-recoverable
- C: Temporary degradation or loss of function or performance which requires operator intervention or system reset
- D: Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data

Note: The manufacturer's specification may define effects on the EUT which may be considered insignificant, and therefore acceptable.

This classification may be used as a guide in formulating performance criteria, by committees responsible for generic, product and product-family standards, or as a framework for the agreement on performance criteria between the manufacturer and the purchaser, for example where no suitable generic, product or product-family standard exists.





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## 2. Radiated Emission Test

#### 2.1. Test Standard and Limit

Test Standard EN 55015	k to
------------------------	------

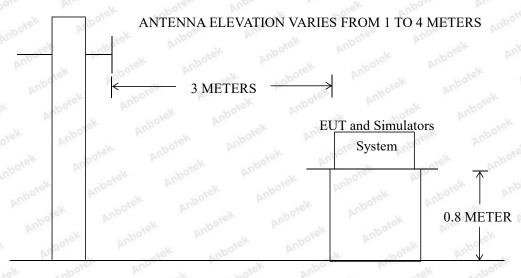
#### Radiated Emission Test Limit

Test Limit	Frequency (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBμV/m)		
	30 ~ 230	Antho 3	40		
	230 ~ 1000	ak Anboat	47		

Remark: (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

#### 2.2. Test Setup



**GROUND PLANE** 

#### 2.3. EUT Configuration on Measurement

The EN 55015 regulations test method must be used to find the maximum emission during radiated emission measurement.

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#### 2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT as shown in Section 2.2.
- 2.4.2. Turn on the power of all equipments.
- 2.4.3. Let the EUT work in test mode and measure it.

#### 2.5. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on an antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.

The EUT is tested in Chamber.

The test results are listed in Section 2.6.

#### 2.6. Test Results

#### **PASS**

The frequency range from 30MHz to 1000MHz is investigated.

The test curves are shown in the following pages.



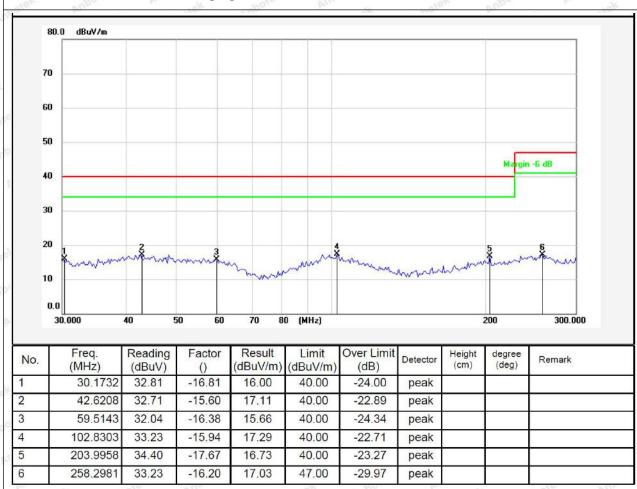
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Test item: Radiation Test Polarization: Horizontal

Standard: (RE)EN 55015 Power Source: DC 3.2V via Solar Panel

Distance: 3m Temp.(°C)/Hum.(%RH): 23.8( °C)/57%RH

Test Mode: Solar Charging





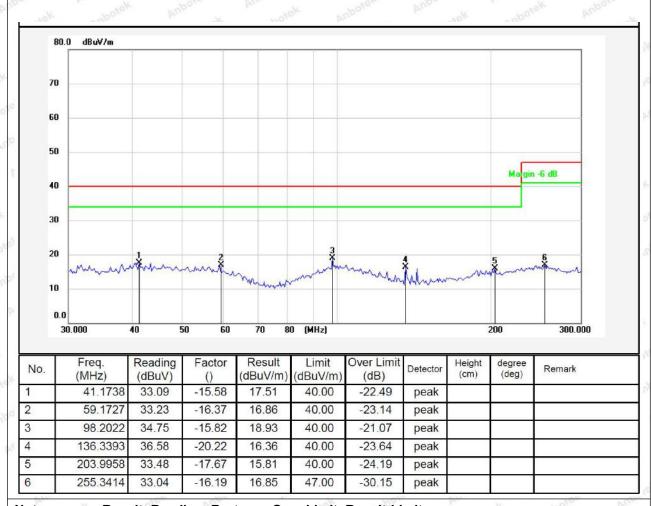
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Test item: Radiation Test Polarization: Vertical

Standard: (RE)EN 55015 Power Source: DC 3.2V via Solar Panel

Distance: 3m Temp.(°C)/Hum.(%RH): 23.8( °C)/57%RH

Test Mode: Solar Charging





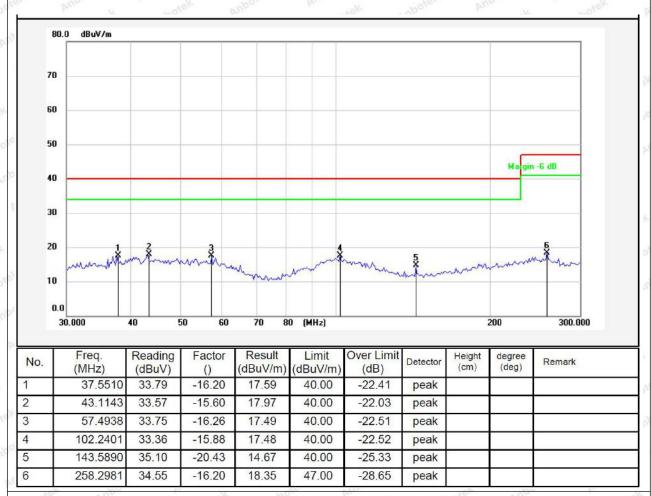
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Test item: Radiation Test Polarization: Horizontal

Standard: (RE)EN 55015 Power Source: DC 3.2V

Distance: 3m Temp.(°C)/Hum.(%RH): 23.8( °C)/57%RH

Test Mode: On





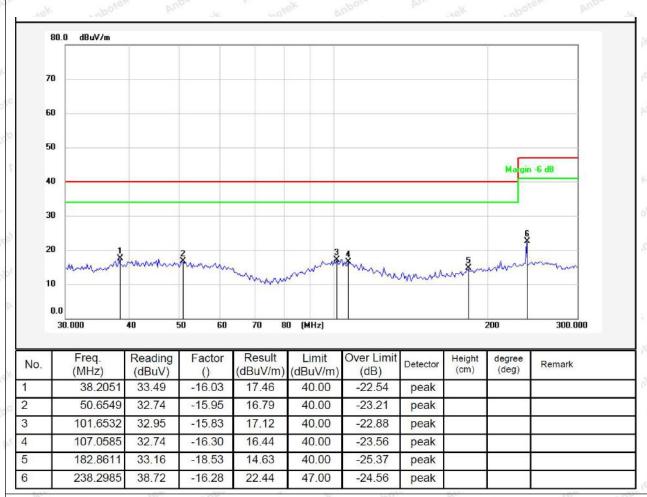
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Test item: Radiation Test Polarization: Vertical

Standard: (RE)EN 55015 Power Source: DC 3.2V

Distance: 3m Temp.(°C)/Hum.(%RH): 23.8( °C)/57%RH

Test Mode: On





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## 3. Magnetic Radiated Emission Test

## 3.1. Test Standard and Limit

100	100		LaD'	Dian.	3/62	-07
Test Standard	EN 55015	abotek Anbotes	k Pur Potek	Anbotek	Ambo.	P. aup

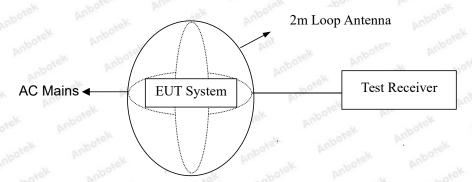
Limits for Magnetic Radiated Emission

	_	Limits for loop diameter (dBμA)				
	Frequency	2m				
T4   1 11-14	9KHz ~ 70KHz	88				
Test Limit	70KHz ~ 150KHz	88 ~ 58*				
	150KHz ~ 3.0MHz	58 ~ 22*				
	3.0MHz ~ 30MHz	22				

Remark: (1) At the transition frequency the lower limit applies.

(2) \* decreasing linearly with logarithm of the frequency.

#### 3.2. Test Setup



#### 3.3. EUT Configuration on Measurement

The following equipments are installed on Magnetic Radiated emission Measurement to meet EN 55015 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT as shown in Section 3.2.
- 3.4.2. Turn on the power of all equipments.
- 3.4.3. Let the EUT work in test mode and measure it.

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#### 3.5. 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 coaxial switch.

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

All the test results are listed in Section 3.6.

#### 3.6. Test Results

#### **PASS**

The frequency range from 9KHz to 30MHz is investigated.

The test curves are shown in the following pages.



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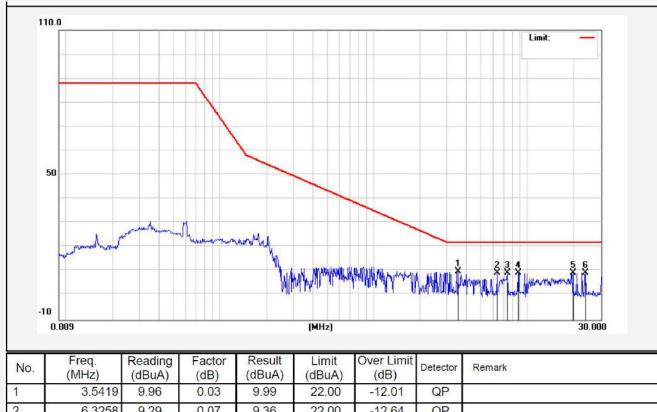
## **Magnetic Radiated Emission Test**

Test Site: 1# Shielded Room

DC 3.2V Test Specification:

Comment: Χ

Temp.: 21.2℃ Hum.: 60%



No.	Freq. (MHz)	(dBuA)	(dB)	(dBuA)	(dBuA)	(dB)	Detector	Remark
1	3.5419	9.96	0.03	9.99	22.00	-12.01	QP	
2	6.3258	9.29	0.07	9.36	22.00	-12.64	QP	
3	7.4020	9.24	0.07	9.31	22.00	-12.69	QP	
4	8.6940	9.27	0.04	9.31	22.00	-12.69	QP	
5	19.7500	9.35	0.02	9.37	22.00	-12.63	QP	
6	23.8460	9.35	0.02	9.37	22.00	-12.63	QP	



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## **Magnetic Radiated Emission Test**

1# Shielded Room Test Site:

DC 3.2V **Test Specification:** 

Υ Comment:

Temp.: 21.2℃ Hum.: 60%



No.	Freq. (MHz)	Reading (dBuA)	Factor (dB)	Result (dBuA)	Limit (dBuA)	Over Limit (dB)	Detector	Remark
1	3.8380	12.39	0.03	12.42	22.00	-9.58	QP	
2	5.6420	12.29	0.05	12.34	22.00	-9.66	QP	
3	7.4980	8.58	0.07	8.65	22.00	-13.35	QP	
4	13.2940	9.50	0.02	9.52	22.00	-12.48	QP	
5	19.7099	10.62	0.02	10.64	22.00	-11.36	QP	
6	21.8978	11.24	0.02	11.26	22.00	-10.74	QP	

Note: Result=Reading+Factor Over Limit=Result-Limit

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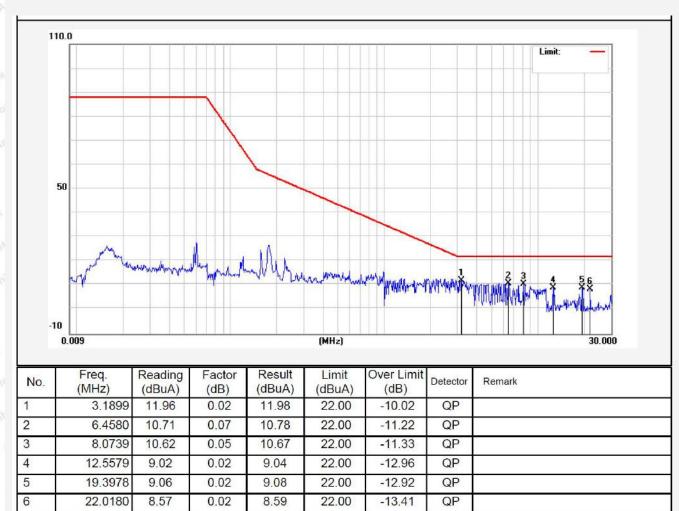
## **Magnetic Radiated Emission Test**

Test Site: 1# Shielded Room

Test Specification: DC 3.2V

Ζ Comment:

Temp.: 21.2℃ Hum.: 60%





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## 4. Electrostatic Discharge Immunity Test

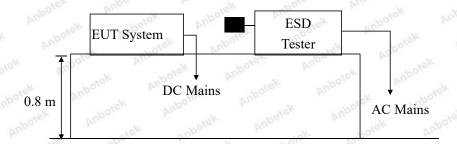
#### 4.1. Test Standard and Level

Test Standard:	EN 6	61547 (IEC	61000-4-2)	Anbotek	Ambo. tek
Performance Criterion:	В	Anbore	k bus	tek Anbotek	Anbo
Severity Level: 3 / Air Discharg	e: ±8kV, Leve	el: 2 / Conta	ct Dischar	ge: ±4kV	ster Antibo

Test Level

Laviel		Test Voltage	Test Voltage		
	Level	Contact Discharge (kV)	Air Discharge (kV)		
ek	1.0 ±2 And 0		totek Ambores ±2 Amer		
Note	2. nbotek	±4	And otek andore±4 Ando		
-36	3. <sub>100</sub> 016	±6	And tek ant ±8 Antion		
Anbo	4.	±8	Anboard ±15 ex Anboard		
PULP	X	Special	Special		

#### 4.2. Test Setup



## 4.3. EUT Configuration on Measurement

The following equipments are installed on Electrostatic Discharge immunity Measurement to meet EN 61547 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

## 4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown on Section 4.2.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3. After that, let the EUT work in test mode measure it.

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4.5. Test Procedure

4.5.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10

times for each pre-selected test point. This procedure shall be repeated until all

the air discharge completed.

4.5.2. Contact Discharge:

All the procedure shall be same as Section 4.5.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is

operated.

4.5.3. 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.

4.5.4. Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of

the coupling plane. The coupling plane, of dimensions 0.5m × 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.

4.6. Test Results

**PASS** 

Please refer to the following page.



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# **Electrostatic Discharge Test Results**

Air discharge :	±8.0kV	Temperature :	23.6℃
Contact discharge :	±4.0kV	Humidity :	48%
Power Supply :	DC 3.2V via Solar Panel / DC 3.2V	Expert conclusion :	A Anhorek
Test Result :	⊠ Pass □ Fail	ek Anbotek Anbo	
# For each point positi	ve 10 times and negative 10 times	s discharge	abotek Anbotek
Anbown anbote	k Anbores Anborak	Anbotek Anboue	anbotek Anbote
ek Anbotek Anb	Location	<b>Kind</b> A-Air Discharge C-Contact Discharge	Result
Screw	4 points	ofek An Chek An	☑A □B □C □D
Light	4 points	Anborek Amborek	ØA □B □C □D
Slot	4 points	Ambotek A Anbotek	ØA □B □C □D
HCP	4 points	C Anborek An	☑A □B □C □D
VCP of the front	4 points	upotek Chotek	☑A □B □C □D
VCP of the rear	4 points	Anborek C Anborek	☑A □B □C □D
VCP of the left	4 points	Anbotek Anbote	☑A □B □C □D
VCP of the right	4 points	botek Chotek	ØA □B □C □D
Anboten Anti-	ek Anborek Anbor A	Anbotek Anboten	Anbotek Anbote
Anbox And	botek Anboten Anbotek	Anbotek Anbote	Anbotek Ant
Remark: Discharge sh and Vertical Coupling F	nould be considered on Contact ar Plane (VCP).	nd Air and Horizontal Cou	upling Plane (HCP)

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## 5. RF Field Strength Susceptibility Test

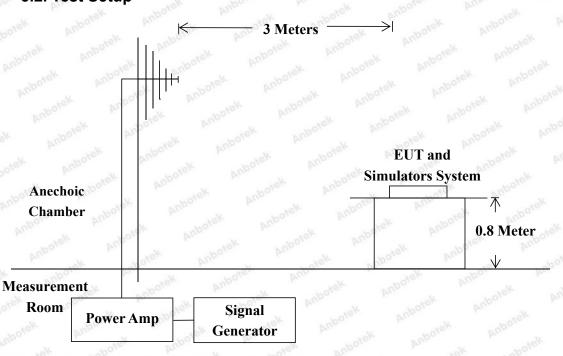
## 5.1. Test Standard and Level

Test Standard:	EN 61547 (IEC 61000-4-3)
Required Performance:	A horek Anno A horek Anno tek mb
Frequency Range:	80MHz to 1000MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of preceding frequency value
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 0.5s

#### Test Level

Level					Fi	eld Stre V/m	ngth			
bus.	niek 1.	inboten Ani	- o/-	abotek	Aupor	. 1	ru,	anl	poten	Pupo
PU,	2.	anbotek	upo.	abotek.	Anl	3	Ans	3/4	anborek	p.5
ooter	3.	Sabotek	Anboy	K Motel	E	10	VUP	-tel-	habote	*
anbotek	X.	, botek	pupple	PULL	atek.	Specia	Pull View	Jo.	h-	otek

## 5.2. Test Setup



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## 5.3. EUT Configuration on Measurement

The following equipments are installed on RF Field Strength susceptibility Measurement to meet EN 61547 requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

#### 5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT as shown on Section 5.2.
- 5.4.2. Turn on the power of all equipments.
- 5.4.3. After that, let the EUT work in test mode measure it.

#### 5.5. Test Procedure

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber. The testing distance from antenna to the EUT was 3 meters.

- 1) The field strength level was 3V/m.
- 2) The frequency range is swept from 80 MHz to 1000 MHz with the signal 80% amplitude modulated with a 1kHz sine wave.
- 3) The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond, but shall in no case be less than 0.5s.
- 4) The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

#### 5.6. Measuring Results

#### **PASS**

Please refer to the following page.

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## RF Field Strength Susceptibility Test Results

Field Strength :	3V/m	Temperature :	23.6℃
Expert conclusion:	A Amborek Anbo	Humidity:	48%
Power Supply :	DC 3.2V via Solar Panel / DC 3.2V	Test Result :	⊠ Pass □ Fail
Dwell Time:	1s, botek	Ambotek Ambote	eak abotek Anbotek

Frequency Range (MHz)	Antenna Polarity	R.F. Field Strength	Azimuth	Result
Anbotek Anboten	K Anbotek	Anbotek Anbotek	Front	botek Anbotek
80~1000	H/V	3 V/m (rms)	Rear	☑A □B
ak anboten k	Anbotek Anbo	777	Left	
otek Anbotek	Anbotek Ar	potek Anbotek	Right	rek Anborek
Anbotek Anbotek	ek Anbotek	Anbotek Anbotek	Anbotek Anbo	botek Anbotek



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## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

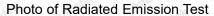




Photo of Magnetic Radiated Emission Test



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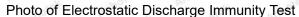




Photo of RF Field Strength susceptibility Test





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## **APPENDIX II -- Photo documentation**



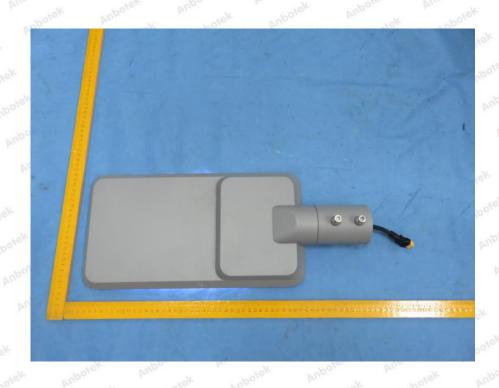


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#### **Shenzhen Anbotek Compliance Laboratory Limited**



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## **CE Label**

- The CE conformity marking must consist of the initials 'CE' taking the following form:
   If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
- The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
- 3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
- 4. The CE marking must be affixed visibly, legibly and indelibly. It must have the same height as the initials 'CE'.

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