

EMC TEST REPORT
for
LEDELS LIGHTING CO., LTD

LED module
Model No. : LL-F12T1607X1A

Prepared for : LEDELS LIGHTING CO., LTD
Address : 5F, Block C, Mingjinhai Ind. Park, Zhoushi Road, Shiyan,
Bao'an, Shenzhen, Guangdong, China

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Report Number : R011412011E-1
Date of Test : Dec. 01~08, 2014
Date of Report : Dec. 09, 2014

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APPENDIX I (Photos of EUT) (1 page)

Anbotek

TEST REPORT VERIFICATION

Applicant : LEDELS LIGHTING CO., LTD
Manufacturer : LEDELS LIGHTING CO., LTD
EUT : LED module

(A) Model No.: LL-F12T1607X1A

(B) Serial No.: N.A.

(C) Trade Mark: N.A.

(D) Rating: DC 12V

Measurement Procedure Used:

EN 55015: 2013;

EN 61547: 2009;

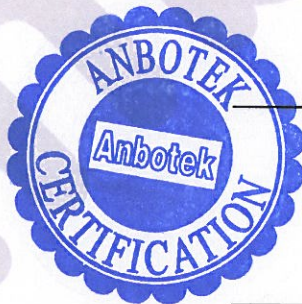
(IEC 61000-4-2; IEC 61000-4-3)

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 EN55015 and EN61547 requirements. The Project in IEC 61000-4-3 was tested in Shenzhen EMTEK Co., Ltd.

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 Test : Dec. 01~08, 2014

Prepared by :



Kebo Zhang
(Engineer/ Kebo Zhang)

Reviewer :

Nancy Huang
(Project Manager/ Nancy Huang)

Approved & Authorized Signer :

Tom Chen
(Manager/ Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : LED module

Model Number : LL-F12T1607X1A

Test Power Supply : DC 12V

Applicant : LEDELS LIGHTING CO., LTD
Address : 5F, Block C, Mingjinhai Ind. Park, Zhoushi Road, Shiyan,
Bao'an, Shenzhen, Guangdong, China

Manufacturer : LEDELS LIGHTING CO., LTD
Address : 5F, Block C, Mingjinhai Ind. Park, Zhoushi Road, Shiyan,
Bao'an, Shenzhen, Guangdong, China

Factory : LEDELS LIGHTING CO., LTD
Address : 5F, Block C, Mingjinhai Ind. Park, Zhoushi Road, Shiyan,
Bao'an, Shenzhen, Guangdong, China

Date of receipt : Dec. 01, 2014

Date of Test : Dec. 01~08, 2014

1.2. Description of Test Facility

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

FCC-Registration No.: 752021

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 752021, July 10, 2013.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A-1, February 22, 2013.

CNAS – LAB Code: L3503

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing Laboratories.

Test Location

All Emissions tests were performed
Shenzhen Anbotek Compliance Laboratory Limited. At 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.3. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 4.1dB (Horizontal) Ur = 4.3dB (Vertical)
Conduction Uncertainty	:	Uc =3.4 dB
Magnetic Uncertainty	:	Um = 3.3 dB

1.4. Test Summary

For the EUT described above. The standards used were EN 55015 for Emissions & EN 61547 for Immunity.

Table 1 : Tests Carried Out Under EN 55015: 2013

Standard	Test Items	Status
EN 55015: 2013	Power Line Conducted Emission Test (9KHz To 30MHz)	x
EN 55015: 2013	Radiated Emission Test (30MHz To 300MHz)	√
EN 55015: 2013	Magnetic Radiated emission Test (9KHz To 30MHz)	√

Table 2 : Tests Carried Out Under EN 61547: 2009

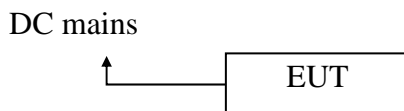
Standard	Test Items	Status
EN 61547: 2009	Electrostatic Discharge immunity Test	√
EN 61547: 2009	RF Field Strength susceptibility Test	√
EN 61547: 2009	Electrical Fast Transient/Burst Immunity Test	x
EN 61547: 2009	Surge Immunity Test	x
EN 61547: 2009	Injected Currents Susceptibility Test	x
EN 61547: 2009	Voltage Dips and Interruptions Test	x

- √ Indicates that the test is applicable
- x Indicates that the test is not applicable

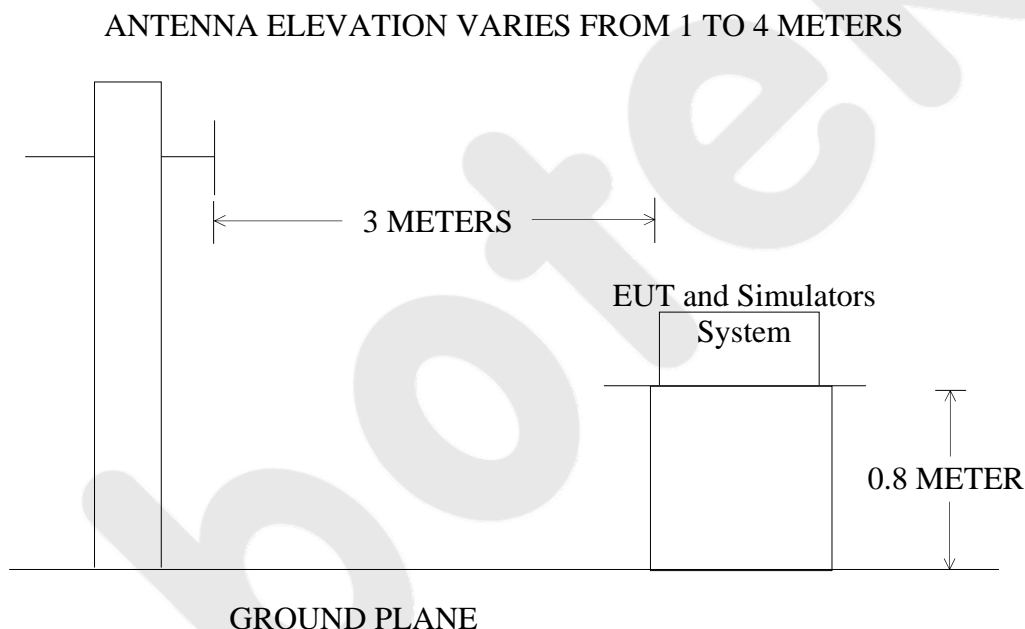
2. RADIATED EMISSION TEST

2.1 Block Diagram of Test

2.1.1. Block diagram of connection between the EUT and simulators



2.1.2. Block diagram of test setup in chamber



2.2. Measuring Standard

EN 55015: 2013;

Radiated Emission Limits

All emanations from an EN 55015 device 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 LIMIT (dB μ V/m)
30 ~ 230	3	40
230 ~ 300	3	47

Note: (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.

2.3. EUT Configuration on Test

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

2.4. Operating Condition of EUT

2.4.1. Turn on the power.

2.4.2. After that, let the EUT work in test mode (On) 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 2.7.

2.6. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 22, 2014	1 Year
2.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 14, 2013	3 Year
3.	Pre-amplifier	SONOMA	310N	186860	Aug. 08, 2014	1 Year

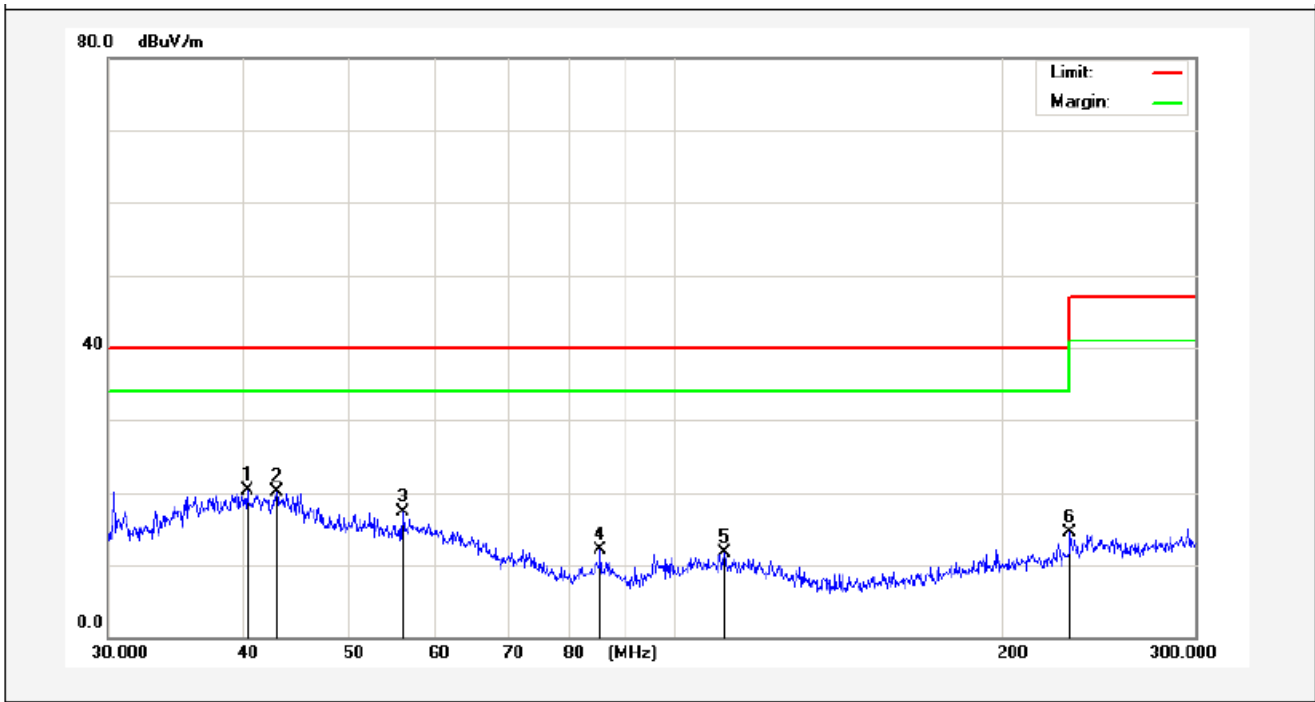
2.7. Measuring Results

PASS.

The frequency range from 30MHz to 300MHz is investigated.

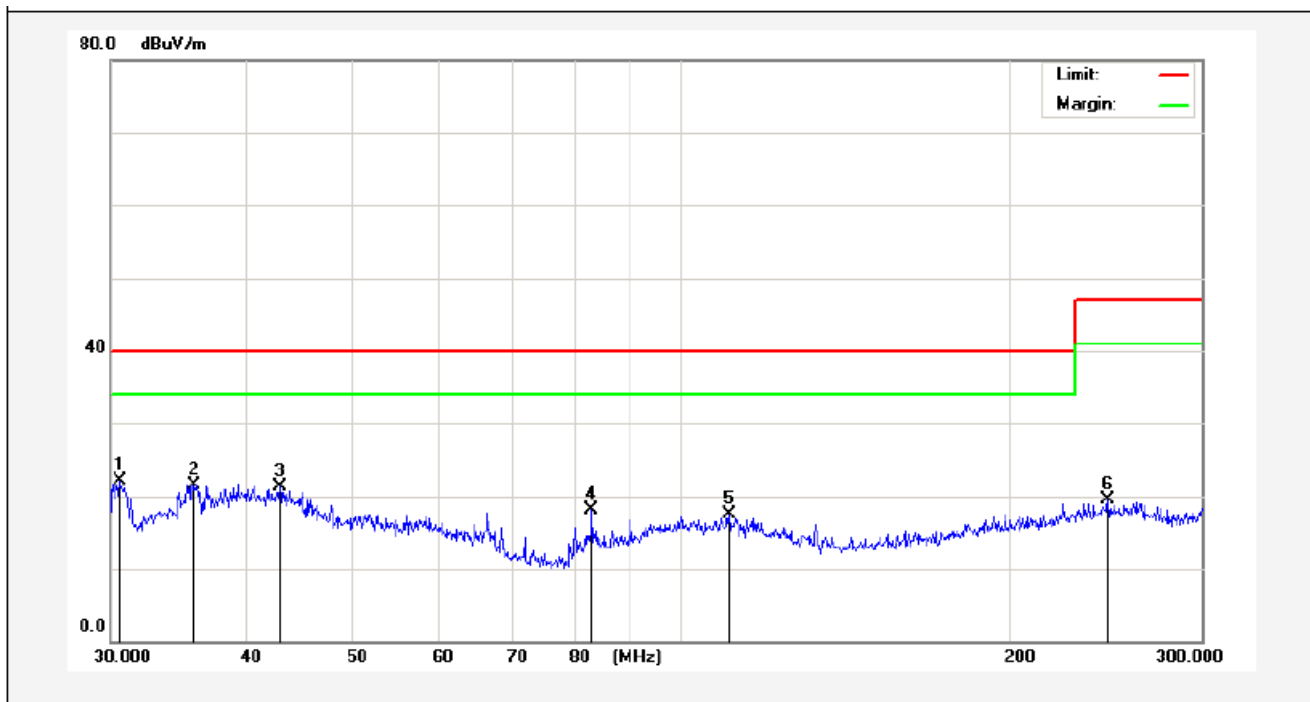
The test curves are shown in the following pages.

Job No.:	AT011412011E-1	Polarization:	Horizontal
Standard:	(RE)EN55015_3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	On	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.2829	30.82	-10.48	20.34	40.00	-19.66	peak			
2	42.8668	31.57	-11.50	20.07	40.00	-19.93	peak			
3	55.9914	32.28	-15.03	17.25	40.00	-22.75	peak			
4	85.1376	32.58	-20.41	12.17	40.00	-27.83	peak			
5	110.6933	32.36	-20.67	11.69	40.00	-28.31	peak			
6	230.2084	33.58	-19.08	14.50	47.00	-32.50	peak			

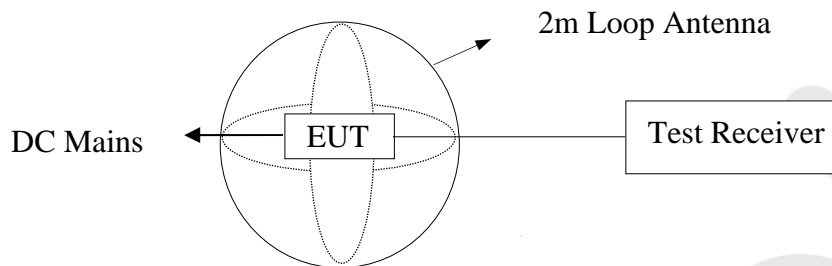
Job No.:	AT011412011E-1	Polarization:	Vertical
Standard:	(RE)EN55015_3m	Power Source:	DC 12V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Note:	On	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.5577	38.83	-16.65	22.18	40.00	-17.82	peak			
2	35.7373	35.22	-13.71	21.51	40.00	-18.49	peak			
3	42.8668	32.78	-11.50	21.28	40.00	-18.72	peak			
4	82.8173	37.26	-19.06	18.20	40.00	-21.80	peak			
5	110.6933	33.26	-15.67	17.59	40.00	-22.41	peak			
6	246.1055	33.51	-14.06	19.45	47.00	-27.55	peak			

3. MAGNETIC RADIATED EMISSION TEST

3.1. Block Diagram of Test Setup



3.2. Magnetic Field Emission Measurement Standard and Limits

3.2.1. Measuring Standard

EN 55015: 2013

3.2.2. Measuring Limits

Frequency	Limits for loop diameter (dB μ A)
	2m
9KHz ~ 70KHz	88
70KHz ~ 150KHz	88 ~ 58*
150KHz ~ 3.0MHz	58 ~ 22*
3.0MHz ~ 30MHz	22

1. At the transition frequency the lower limit applies.
2. * decreasing linearly with logarithm of the frequency.

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 3.1.
- 3.4.2. Turn on the power of all equipments.
- 3.4.3. Let the EUT work in test mode (On) and measure it.

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 3.7.

3.6. Test Equipment

The following test equipments are used during the magnetic radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Apr. 22, 2014	1 Year
2.	Triple-Loop Antenna(2M)	EVERFINE	LLA-2	905003	Apr. 23, 2013	3 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Apr. 22, 2014	1 Year

3.7. Measuring Results

PASS.

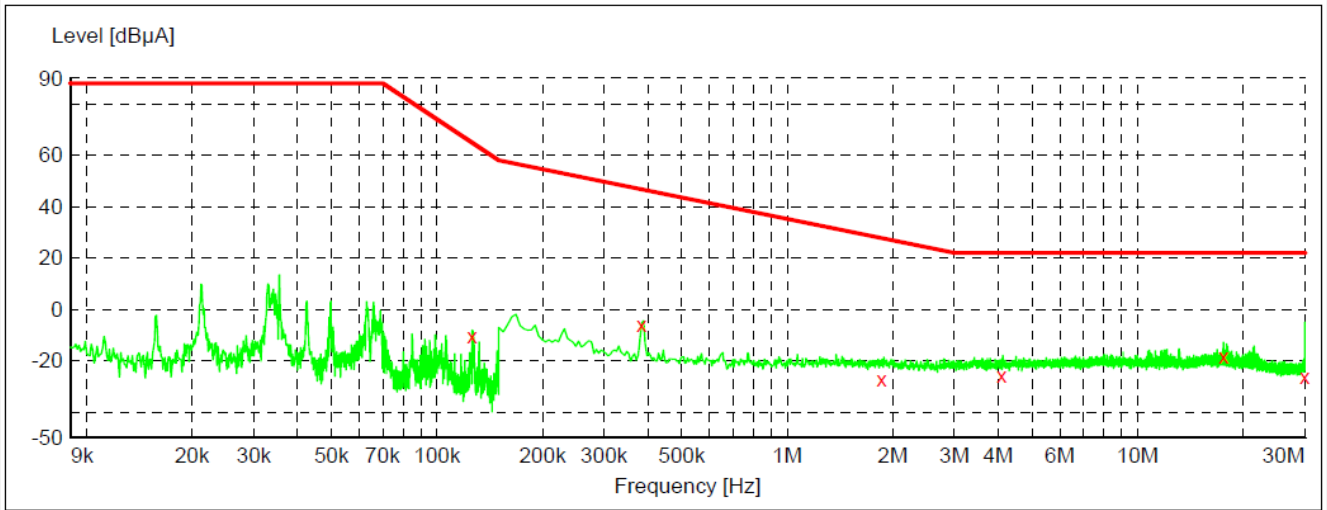
The frequency range from 9KHz to 30MHz is investigated.

The test curves are shown in the following pages.

MAGNETIC RADIATED EMISSION TEST

Test Site: 1# Shielded Room
 Operating Condition: On
 Test Specification: DC 12V
 Comment: X
 Tem.:22.2°C Hum.:59%

SCAN TABLE: "Macn (9K-30M) FIN"
 Short Description: 9K~30M Magn. Field



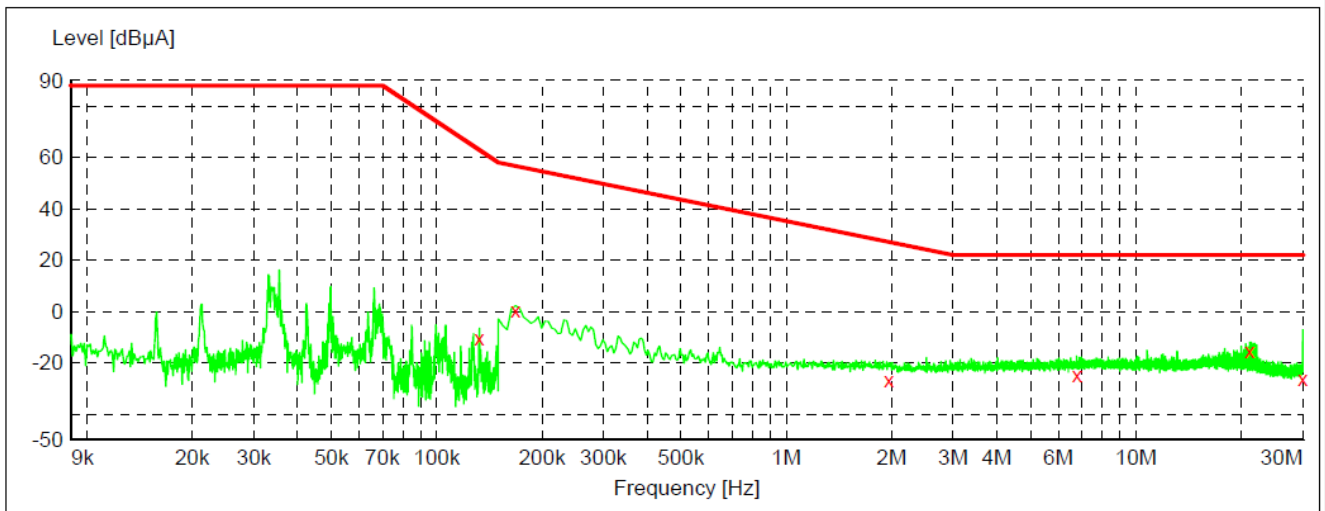
Frequency MHz	Level dBµA	Transd dB	Limit dBµA	Margin dB	Det.	Loop	Azimuth deg
0.126000	-10.20	-13.8	65	75.2	QP	X	0.00
0.384000	-5.80	-15.1	47	52.5	QP	X	0.00
1.860000	-27.00	-15.6	28	54.7	QP	X	0.00
4.092000	-25.70	-15.1	22	47.7	QP	X	0.00
17.592000	-18.10	-13.6	22	40.1	QP	X	0.00
30.000000	-26.40	-16.1	22	48.4	QP	X	0.00



MAGNETIC RADIATED EMISSION TEST

Test Site: 1# Shielded Room
 Operating Condition: On
 Test Specification: DC 12V
 Comment: Y
 Tem.:22.2°C Hum.:59%

SCAN TABLE: "Macm (9K-30M) FIN"
 Short Description: 9K~30M Magn. Field

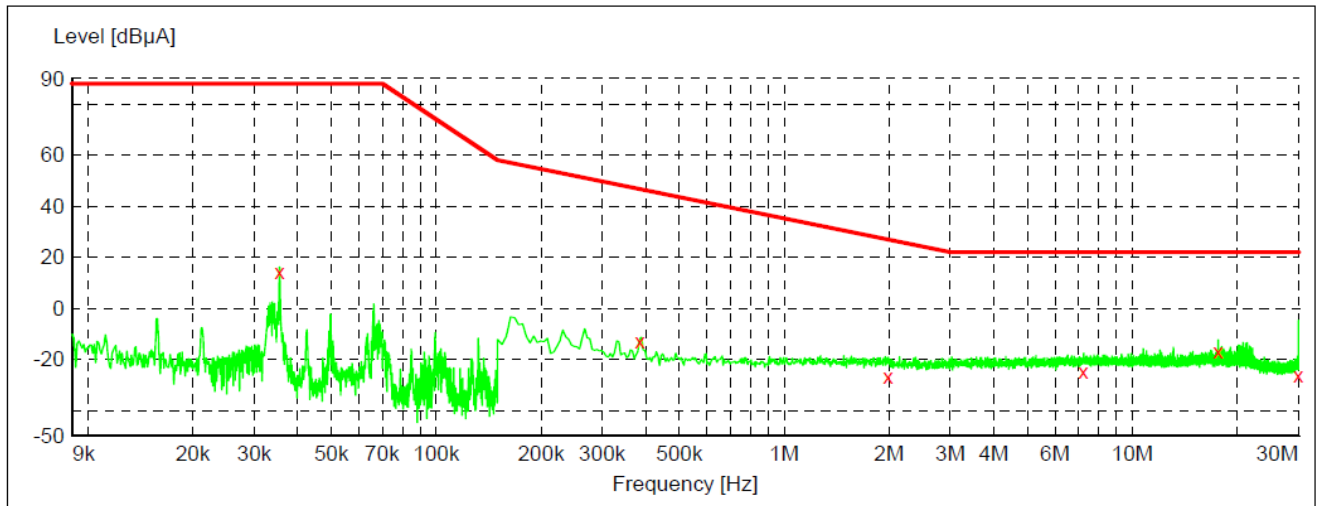


Frequency MHz	Level dBµA	Transd dB	Limit dBµA	Margin dB	Det.	Loop	Azimuth deg
0.132400	-10.40	-13.9	63	73.4	QP	Y	0.00
0.168000	0.60	-14.1	57	56.0	QP	Y	0.00
1.968000	-26.90	-15.6	27	54.0	QP	Y	0.00
6.787500	-24.90	-14.6	22	46.9	QP	Y	0.00
21.133500	-15.40	-14.7	22	37.4	QP	Y	0.00
30.000000	-26.30	-16.1	22	48.3	QP	Y	0.00

MAGNETIC RADIATED EMISSION TEST

Test Site: 1# Shielded Room
 Operating Condition: On
 Test Specification: DC 12V
 Comment: Z
 Tem.:22.2°C Hum.:59%

SCAN TABLE: "Macm (9K-30M) FIN"
 Short Description: 9K~30M Magn. Field



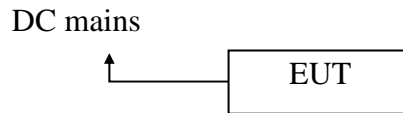
Frequency MHz	Level dBµA	Transd dB	Limit dBµA	Margin dB	Det.	Loop	Azimuth deg
0.035400	14.30	-11.7	88	73.7	QP	Z	0.00
0.384000	-13.10	-15.1	47	59.8	QP	Z	0.00
1.986000	-26.80	-15.6	27	53.8	QP	Z	0.00
7.233000	-24.90	-14.5	22	46.9	QP	Z	0.00
17.650500	-16.80	-13.6	22	38.8	QP	Z	0.00
30.000000	-26.40	-16.1	22	48.4	QP	Z	0.00

AEM

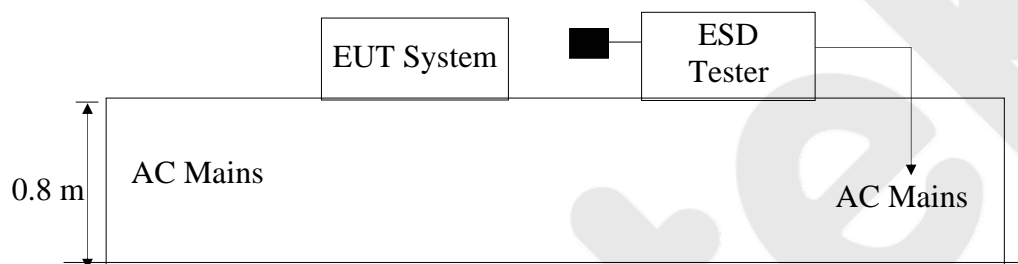
4. ELECTROSTATIC DISCHARGE IMMUNITY TEST

4.1. Block Diagram of Test Setup

4.1.1. Block diagram of connection between the EUT and simulators



4.1.2. Test Setup Diagram



4.2. Measuring Standard

EN 61547: 2009

IEC 61000-4-2

Severity Level: 3 / Air Discharge: ± 8 kV, Level: 2 / Contact Discharge: ± 4 kV

4.3. Severity Levels and Performance Criterion

4.3.1. 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

4.3.2. Performance criterion: B

4.4. EUT Configuration

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.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT and simulators as shown in Section 4.1.

4.5.2. Turn on the power, Let the EUT work in test mode (On) and test it.

4.6. Test Procedure

4.6.1. 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

4.6.2. Contact Discharge:

All the procedure shall be same as Section 4.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

4.6.3. 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.

4.6.4. 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 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.

4.7. Test Equipment

The following test equipments are used during the electrostatic discharge immunity measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Simulators	KIKUSUI	KES4021	LJ003477	Apr. 24, 2014	1 Year

4.8. Measuring Results

PASS.

Please refer to the following page.

Electrostatic Discharge Test Results

Shenzhen Anbotek Compliance Laboratory Limited

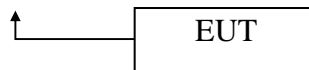
Test Mode : On	Temperature : 24°C	
Power Supply : DC 12V	Humidity : 53%	
Air Discharge: ±8kV		
Contact Discharge: ±4kV # For each point positive 10 times and negative 10 times discharge		
Location	Kind A-Air Discharge C-Contact Discharge	Result
Slot of the EUT 6 points	A	PASS
Others 6 points	A	PASS
HCP 4 points	C	PASS
VCP of front 4 points	C	PASS
VCP of rear 4 points	C	PASS
VCP of left 4 points	C	PASS
VCP of right 4 points	C	PASS
Note: Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).		

5. RF FIELD STRENGTH SUSCEPTIBILITY TEST

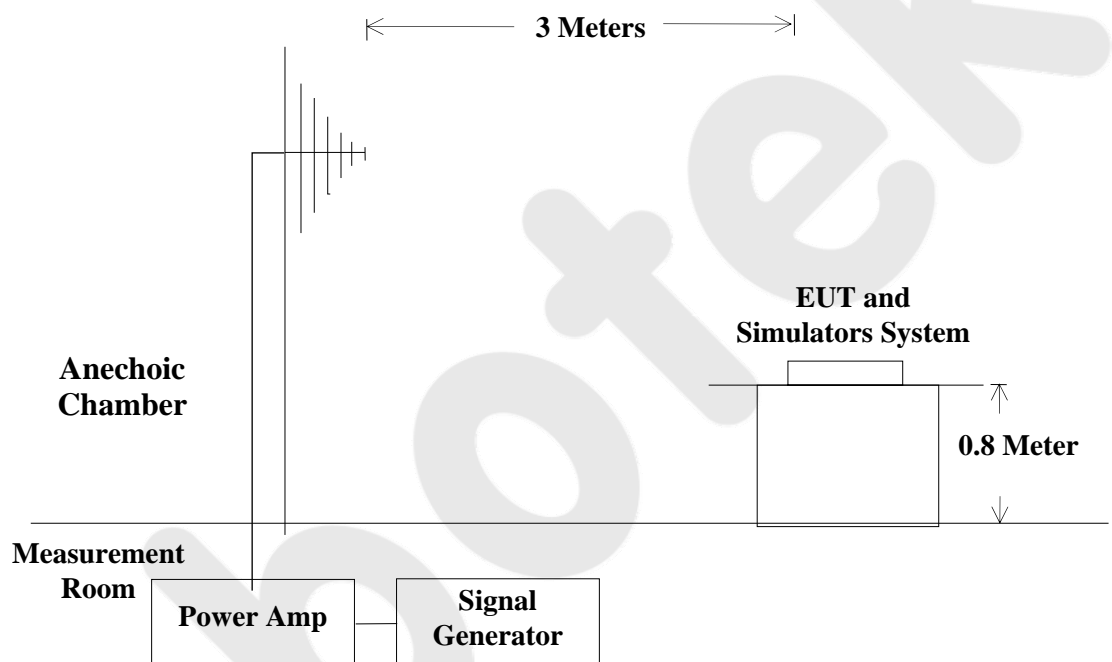
5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of the EUT and the simulators

DC mains



5.1.2. R/S Test Setup



5.2. Measuring Standard

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

5.3. Severity Levels and Performance Criterion

5.3.1. Severity level

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

5.3.2. Performance criterion: A

5.4. EUT Configuration

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.

5.5. Operating Condition of EUT

5.5.1. Setup the EUT and simulators as shown in Section 5.1.

5.5.2. Turn on the power, Let the EUT work in test mode (On) and test it.

5.6. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are 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 EUT screen. All the scanning conditions are as follow:

Condition of Test	Remarks
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Unmodulated
3. Scanning Frequency	80 - 1000 MHz
4. Dwell time of radiated	0.0015 decade/s
5. Waiting Time	1 Sec.

5.7. Test Equipment

The following test equipments are used during the RF Field Strength susceptibility measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	RF Power Meter. Dual Channel	BOONTON	4232A	10539	May 29, 2014	1 year
2.	50ohm Diode Power Sensor	BOONTON	51011EMC	34236/34238	May 29, 2014	1 year
3.	Broad-Band Horn Antenna	SCHWARZBECK	BBHA9120 L3F	332	May 29, 2014	1 year
4.	Power Amplifier	PRANA	AP32MT215	N/A	May 29, 2014	1 year
5.	Power Amplifier	MILMEGA	AS0102-55	N/A	May 29, 2014	1 year
6.	Signal Generator	AEROFLEX	2023B	N/A	May 29, 2014	1 year
7.	Field Strength Meter	HOLADAY	HI-6005	N/A	May 29, 2014	1 year
8.	RS232 Fiber Optic Modem	HOLADAY	HI-4413P	N/A	May 29, 2014	1 year
9.	Log.-Per. Antenna	SCHWARZBECK	VULP 9118E	N/A	May 29, 2014	1 year

5.8. Measuring Results

PASS.

Please refer to the following page.

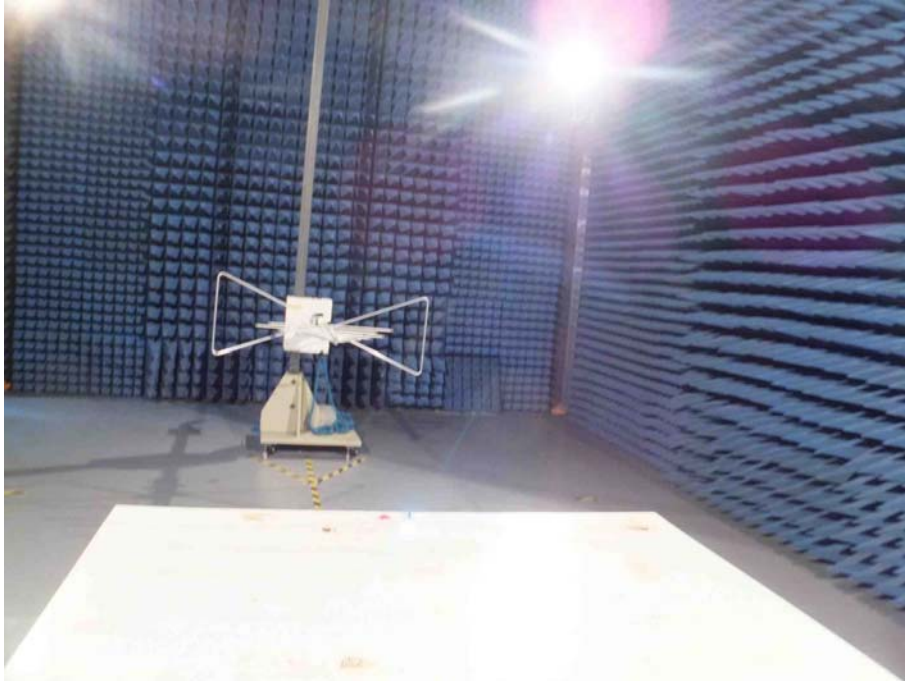
RF Field Strength Susceptibility Test Results

Shenzhen Anbotek Compliance Laboratory Limited

Test Mode : On Field Strength : 3V/m Criterion : A Power Supply : DC 12V	Temperature : 25°C Humidity : 55% Frequency Range : 80 MHz to 1000 MHz	
Modulation : <input checked="" type="checkbox"/> AM 1 KHz 80% <input type="checkbox"/> Pulse <input type="checkbox"/> none		
Steps 1 %	Frequency Rang: 80-1000MHz	
	Horizontal	Vertical
Front	PASS	PASS
Right	PASS	PASS
Rear	PASS	PASS
Left	PASS	PASS
Note: Tested by EMTEK.		

6. PHOTOGRAPHS

6.1. Photo of Radiated Emission Test



6.2. Photo of Magnetic Radiated Emission Test



6.3. Photo of Electrostatic Discharge Test



6.4. Photo of RF Field Strength susceptibility Test



APPENDIX I
(Photos of EUT)

Figure 1
The EUT- Front View

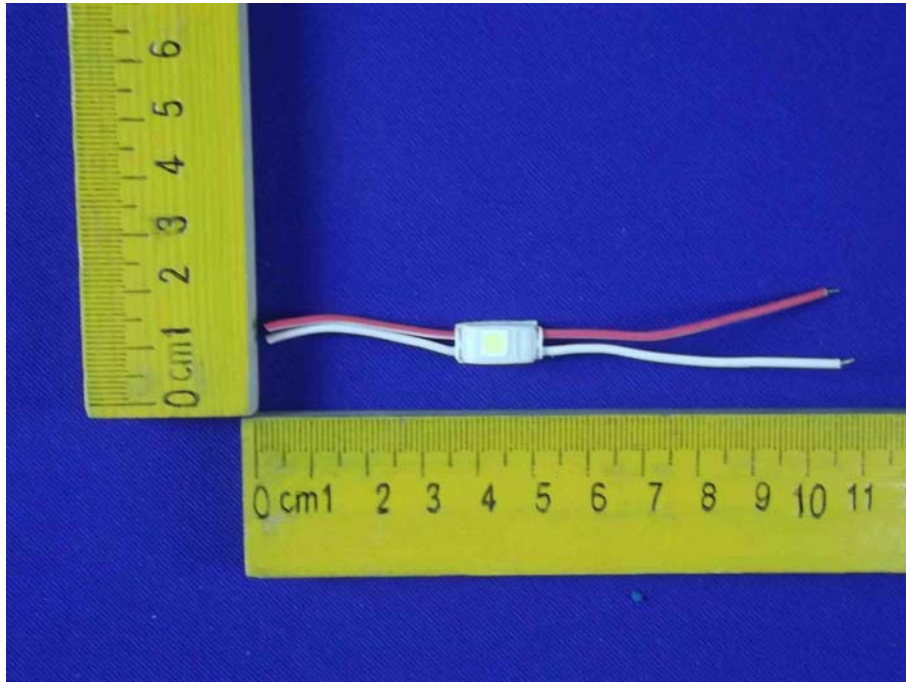
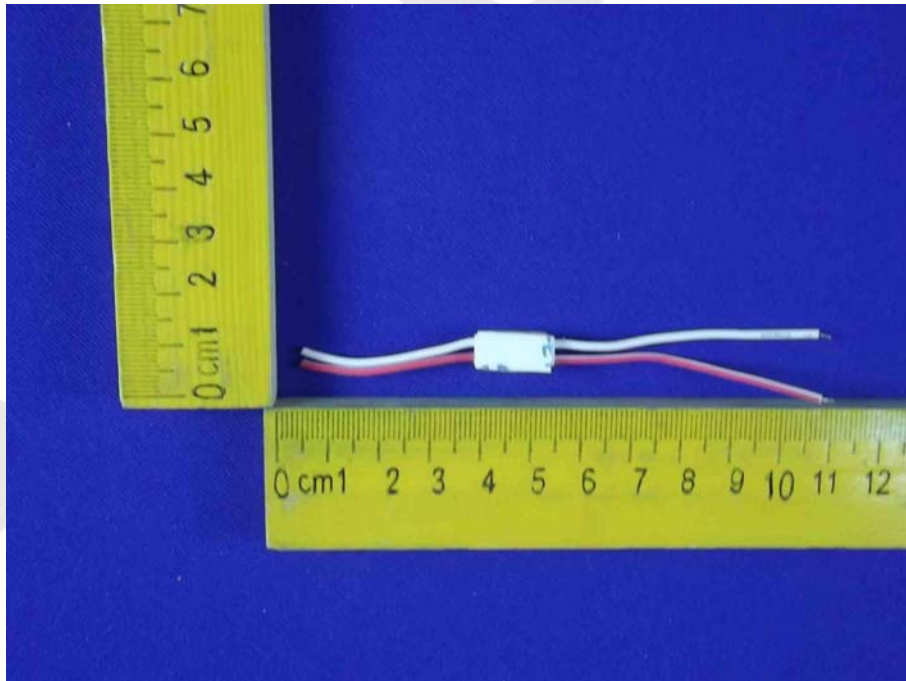


Figure 2
The EUT- Back View



CE Label

1. 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.
2. 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'.

Anbotek