



AUSTRALIAN TEST REPORT

For

Deshun Smart Technology Co., Ltd.

LED exit emergency light

Test Model: DS-EL-01M

Additional Models : please refer to Model list

Prepared for : Deshun Smart Technology Co., Ltd.
Address : No. 39, Dongqi Highway, Zhangjiagang City, Jiangsu, China

Prepared by : Shenzhen Southern LCS Compliance Testing Laboratory Ltd.
Address : 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China

Tel : (+86)755-29871520
Fax : (+86)755-29871521
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : March 05, 2022
Number of tested samples : 1
Serial number : Prototype
Date of Test : March 05, 2022 - May 31, 2022
Date of Report : May 31, 2022





AUSTRALIAN TEST REPORT

AS CISPR 15:2017

Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

Report Reference No.: **LCS220105118BE**

Date of Issue: May 31, 2022

Testing Laboratory Name: **Shenzhen Southern LCS Compliance Testing Laboratory Ltd.**

Address: 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China.

Testing Procedure: Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing method ☐

Applicant's Name: **Deshun Smart Technology Co., Ltd.**

Address: No. 39, Dongqi Highway, Zhangjiagang City, Jiangsu, China

Test Specification:

Standard: AS CISPR 15:2017

Test Report Form No.: SLCSEMC-2.3

TRF Originator: Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

Master TRF: Dated 2016-08

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Equipment Under Test: **LED exit emergency light**

Trademark: N/A

Test Model/Type: DS-EL-01M

Rating: 220-240VAC, 50/60Hz, Emergency power: 1.5W

Replaceable battery: LiFePO4 6.4V 1600mAh

Results: **PASS**

Compiled by:

Amy Liu / Engineer

Supervised by:

Cherry Chen / Technique Director

Approved by:

Dm Gu / Manager



Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

101-201, No. 39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China.

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com.

Scan code to check authenticity.



AUSTRALIAN - TEST REPORT

Test Report No.....: LCS220105118BE

Applicant.....: Deshun Smart Technology Co., Ltd.
Address.....: No. 39, Dongqi Highway, Zhangjiagang City, Jiangsu, China
Telephone.....: /
Fax.....: /

Manufacturer.....: Deshun Smart Technology Co., Ltd.
Address.....: No. 39, Dongqi Highway, Zhangjiagang City, Jiangsu, China
Telephone.....: /
Fax.....: /

Factory.....: Deshun Smart Technology Co., Ltd.
Address.....: No. 39, Dongqi Highway, Zhangjiagang City, Jiangsu, China
Telephone.....: /
Fax.....: /

The applicant and manufacturer information, product name, model, trademark and other information in this report are all provided by the applicant, and this laboratory is not responsible for verifying its authenticity.

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

101-201, No. 39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China.

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com.

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ENVIRONMENTAL CONDITIONS

The climatic conditions during the test are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. the climatic conditions during the test were in the following Limits:

Ambient temperature	15°C - 30°C
Relative Humidity air	30% - 75%
Atmospheric pressure	86 kPa - 106 kPa

Climate values will be recorded and recorded separately if specifically required in the base standard or application product/product series standard.

POSSIBLE TEST CASE VERDICTS

Test cases does not apply to test object	N/A
Test object does meet requirement	P(Pass) / PASS
Test object does not meet requirement	F(Fail) / FAIL
Not measured	N/M

DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☒ Indicate that the conditions, standards or equipment listed is applicable to this report / test / EUT.
☐ Indicate that the conditions, standards or equipment listed is not applicable to this report / test / EUT.

REVISION HISTORY

Revision	Issue Date	Revision Content	Revised by
000	May 31, 2022	Initial Issue	---

Remark:
000) : “---”





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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF THE ITEM(S)

Equipment Under Test	LED exit emergency light
Test Model/Type	DS-EL-01M
Additional Models/Type	See Model list
Description of Model difference	-
Rating	See Model list
Mounting position	☐ Table top equipment ☐ Wall /Ceiling mounted equipment ☐ Floor standing equipment ☐ Hand-held equipment ☒ Other
Non-restricted ELV lamps	☐ Yes ☒ No



**Information of the Equipment Under Test(EUT)**

The EUT is general luminaires which intended for residential use. the product contains electronic control circuits, and no component susceptible to magnetic fields. for more information refer to client's DoC letter.

Model No.	Rating	Battery
DS-ES-01M	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-02M	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-03M	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-04M	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-05M	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-06M	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-01S	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-02S	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-03S	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-04S	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-05S	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh
DS-ES-06S	220-240V~, 50/60Hz, ta.40℃, Emergency power:1.5W, IP20	IFR 18650-1.6Ah 6.4V 1600mAh





1.2. OPERATING MODE(S) USED OF TESTS

During the tests, the following operating mode(s) has(have) been used.

Operating Mode	Operating Mode description	Used for testing
1	Lighting on mode	☐
2	Charging	☒
3	Discharging	☒
4	Full load	☐

1.3. SUPPORT / AUXILIARY EQUIPMENT FOR THE EUT

EUT has been tested using the following auxiliary equipment :

Auxeq	Model/Type	Manufacturer	Supplied by
--			

1.4. DESCRIPTION OF TEST FACILITY

Test Location 1	Shenzhen Southern LCS Compliance Testing Laboratory Ltd. 101-201, No.39 Building,Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China. CNAS Registration Number is L10160.
Date of receipt of test item	March 05, 2022
Date(s) of performance of test	March 05, 2022 - May 31, 2022





2. STATEMENT OF THE MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. the reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. the measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. the manufacturer has the sole responsibility of continued compliance of the device.

Measurement	Uncertainty (U_{lab})	Uncertainty (U_{cisp})
Conducted disturbance (9kHz - 150kHz)	± 1.40 dB	± 4.0 dB
Conducted disturbance (150kHz - 30MHz)	± 2.80 dB	± 3.6 dB
Magnetic field disturbance (9kHz - 150kHz)	± 3.46 dB	-
Magnetic field disturbance (150kHz - 30MHz)		
Radiated disturbance (30MHz - 200MHz)	± 4.66 dB	± 5.2 dB
Radiated disturbance (200MHz - 1GHz)	± 4.64 dB	± 5.0 dB

Supplementary information:

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.





3. MEASURING DEVICES AND TEST EQUIPMENT

CONDUCTED DISTURBANCE						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Receiver	R&S	ESCI	101142	2021-06-08	2022-06-08
2	10dB Attenuator	SCHWARZBECK	VTSD9561-F	9561-F159	2021-06-08	2022-06-08
3	Artificial Mains Network	SCHWARZBECK	NSLK8127	8127716	2021-06-08	2022-06-08
4	EMI Test Software	EZ	EZ EMC	N/A	/	/
5	Asymmetric Artificial Network	SCHWARZBECK	NTFM 8158	NTFM8158#120	2021-06-08	2022-06-08
6	Voltage Probe	SCHWARZBECK	KT 9420	9420401	2021-06-08	2022-06-08
7	No. 2 shielded Room	CHENGYU	843	/	2020-06-16	2023-06-16

RADIATED DISTURBANCE (9KHz - 30MHz)						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Receiver	R&S	ESCI	101142	2021-06-08	2022-06-08
2	Triple-loop Antenna	EVERFINE	LLA-2	9161	2021-06-08	2022-06-08
3	EMI Test Software	EZ	EZ EMC	N/A	/	/
4	No. 2 shielded Room	CHENGYU	843	/	2020-06-16	2023-06-16

RADIATED DISTURBANCE (30MHz - 300MHz)						
Item	Test equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-15	2024-06-15
2	EMI Test Receiver	R&S	ESCI3	101010	2021-06-08	2022-06-08
3	Spectrum Analyzer	Agilent	N9020A	MY49100699	2021-06-08	2022-06-08
4	Log-periodic Antenna	SCHWARZBECK	VULB9163	5094	2019-06-23	2022-06-23
5	Horn Antenna	ETS-LINDGREN	3115	00034771	2019-06-23	2022-06-23
6	EMI Test Software	EZ	EZ EMC	N/A	/	/
7	Positioning Controller	MF	BK8807-4A-2T	2016-0808-008	/	/





4. VERDICT SUMMARY SECTION

This chapter present an overview of the standards and results. Refer the next chapter for details of measured test results and applied test levels.

4.1. STANDARD(S)

AS CISPR 15:2017 - Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

4.2. OVERVIEW OF RESULTS

EMISSION TESTS - AS CISPR 15 : 2017		
Requirement - Test case	Limit	Verdict
Insertion loss	Table 1	N/A
Conducted Disturbance - Mains terminals	Table 2a	PASS
Conducted Disturbance - Load terminals	Table 2b	N/A
Conducted Disturbance - Control terminals	Table 2c	N/A
Assessment of the enclosure port	---	---
Radiated Disturbance in the frequency range 9 kHz to 30 MHz	Table 3a	PASS
Radiated Disturbance in the frequency range 30 MHz to 300MHz	Table 3b	PASS

Supplementary information: ---





5. EMISSION TESTS

5.1. CONDUCTED DISTURBANCE

Standard	AS CISPR 15:2017
Basic Standard(s)	CISPR 16-2-1

Disturbance voltage limits at Mains terminals

Frequency range [MHz]	Limit: Quasi-peak [dB(μV)]	Limit: Average[dB(μV)]	IF BW
0,009 - 0,05	110	N/A	200 Hz
0,05 - 0,15	90 - 80	N/A	200 Hz
0,15 - 0,5	66 - 56	56 - 46	9 kHz
0,5 - 5,0	56	46	9 kHz
5,0 - 30	60	50	9 kHz

- 1) At the transition frequency, the lower limit applies.
- 2) The limit decreases linearly with the logarithm of the frequency in the ranges 50 kHz to 150 kHz and 150 kHz to 0,5 MHz.
- 3) If the EUT is non-restricted ELV lamps, the limits add 26dB.

Disturbance voltage limits at Load terminals

Frequency range [MHz]	Limit: Quasi-peak [dB(μV)]	Limit: Average[dB(μV)]	IF BW
0,15 - 5,0	80	70	9 kHz
5,0 - 30	74	64	9 kHz

- 1) The limits decrease linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

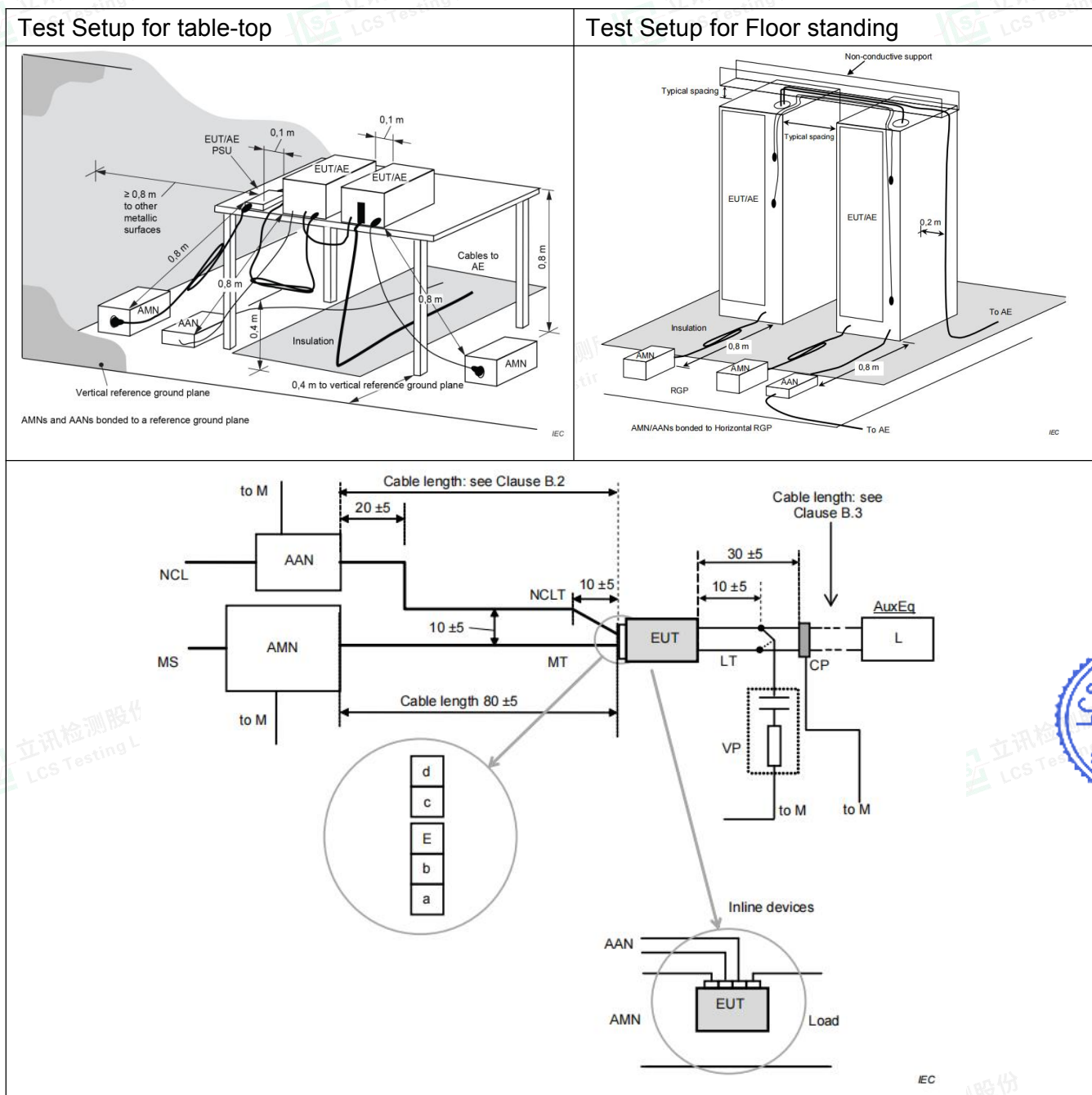
Disturbance voltage limits at Control terminals

Frequency range [MHz]	Limit: Quasi-peak [dB(μV)]	Limit: Average[dB(μV)]	IF BW
0,15 - 5,0	84 - 74	74 - 64	9 kHz
5,0 - 30	74	64	9 kHz

- 1) The limits decrease linearly with the logarithm of the frequency in the range 0.15MHz to 0.5 MHz.
- 2) The disturbance voltage limits are derived for use with an artificial asymmetrical network (AAN) which presents a common mode (asymmetric mode) impedance of 150 Ω to the measured interface.



Test configuration



Test Procedure Description

For Table-top, EUT shall be placed at $(0,8 \pm 0,05)$ m above the reference plane of the test site selected for measurement. for Floor standing, EUT shall be placed at $(0,12 \pm 0,04)$ m above the reference plane of the test site selected for measurement.

and connected to the AC mains through artificial mains network (LISN). EUT is powered by V-type artificial power network, and the distance from LISN or ANN is 0,8m. the part of the EUT power cord exceeding 0,8m folds in parallel to form a 0,3-0,4 m eights harness.

Test Results refer to Annex A.1





5.2. RADIATED DISTURBANCE (9KHz - 30MHz)

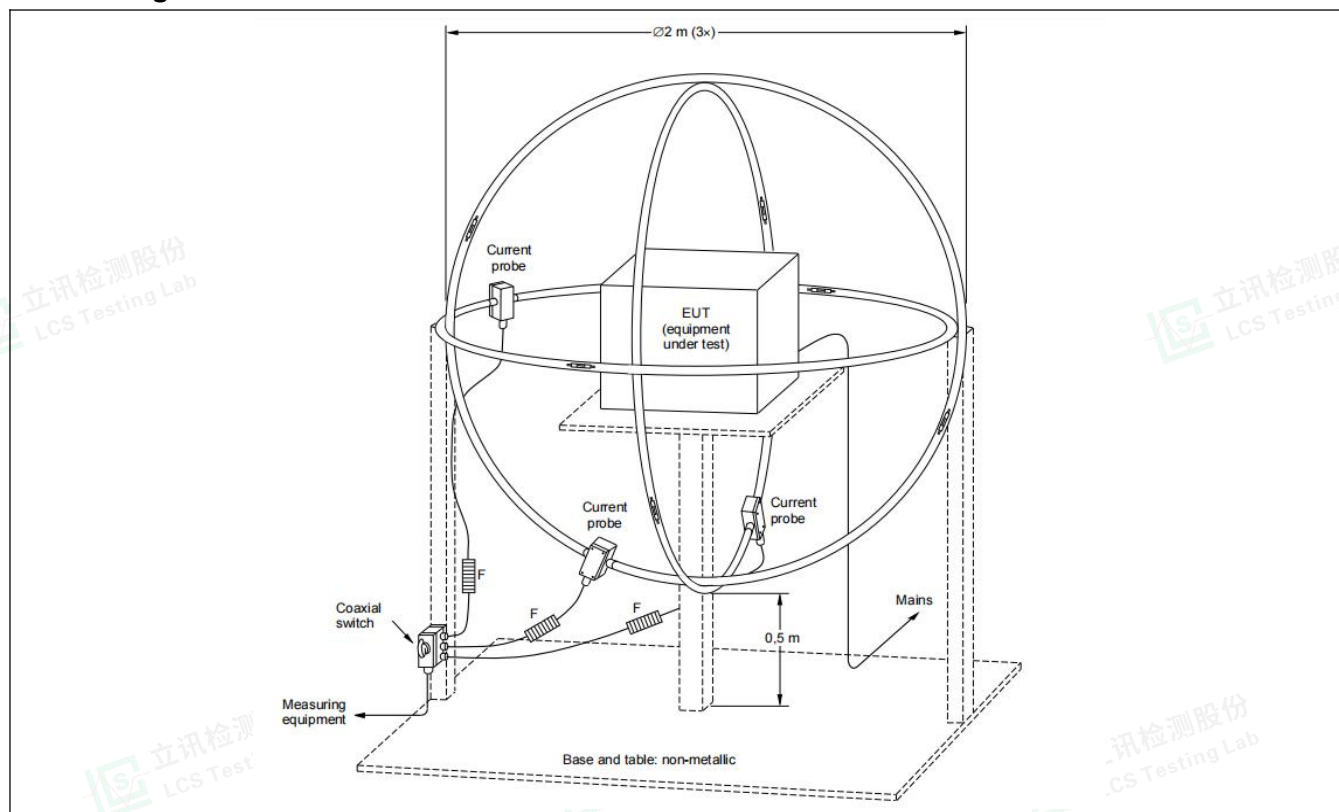
Standard	AS CISPR 15:2017
Basic Standard(s)	CISPR 16-2-3
Test method	Large Loop Antenna (LLA)

Radiated disturbance limits (2m)

Frequency range [MHz]	Limit: Quasi-peak [dB(μA)]	IF BW
0,009 - 0,07	88	200 Hz
0,07 - 0,15	88 - 58	200 Hz
0,15 - 3,0	58 - 22	9 kHz
3,0 - 30	22	9 kHz

- 1) At the transition frequency the lower limit applies.
- 2) Decreasing linearly with logarithm of the frequency.

Test configuration



Test Procedure Description

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.

Test Results refer to Annex A.2





5.3. RADIATED DISTURBANCE (30MHz - 300MHz)

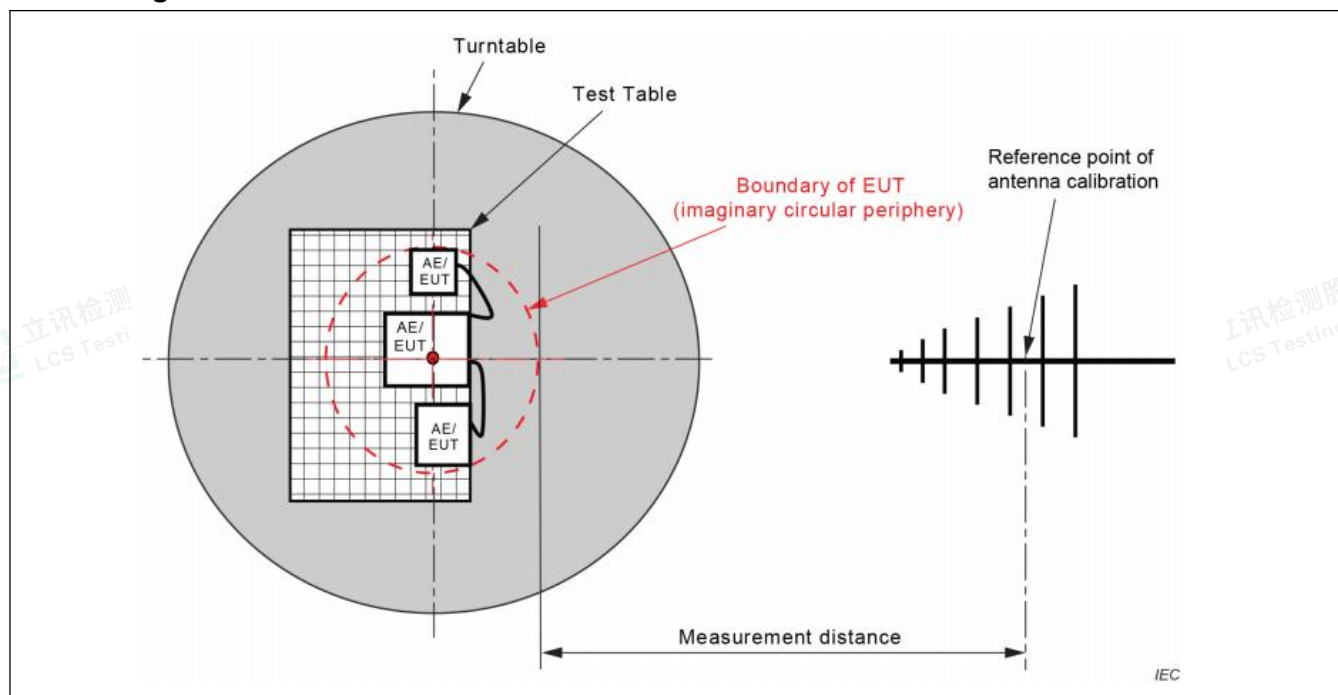
Standard	AS CISPR 15:2017
Basic Standard(s)	CISPR 16-2-3
Test method	Semi Anechoic Chamber (SAC)

Radiated disturbance limit

Frequency range [MHz]	Limit: Quasi-peak [dB(μV/m)]		IF BW
	3 m distance	10 m distance	
30 - 230	40	30	120 KHz
230 - 300	47	37	120 KHz

- 1) At the transition frequency, the lower limit applies.
- 2) Distance refers to the distance in meters between the measuring instrument antenna geometric center and the closed point of any part of the EUT.

Test configuration



Test Procedure Description

The radiated disturbance test was conducted in a 3m Semi Anechoic Chamber and conforming to CISPR 16-2-3. the EUT is placed on a turntable, which is 0.8 meter high above the ground. the turntable 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. Log-periodic Antenna (calibrated by Dipole antenna) is used as a receiving antenna. both horizontal and vertical polarization of the antenna is set on test.

Test Results refer to Annex A.3

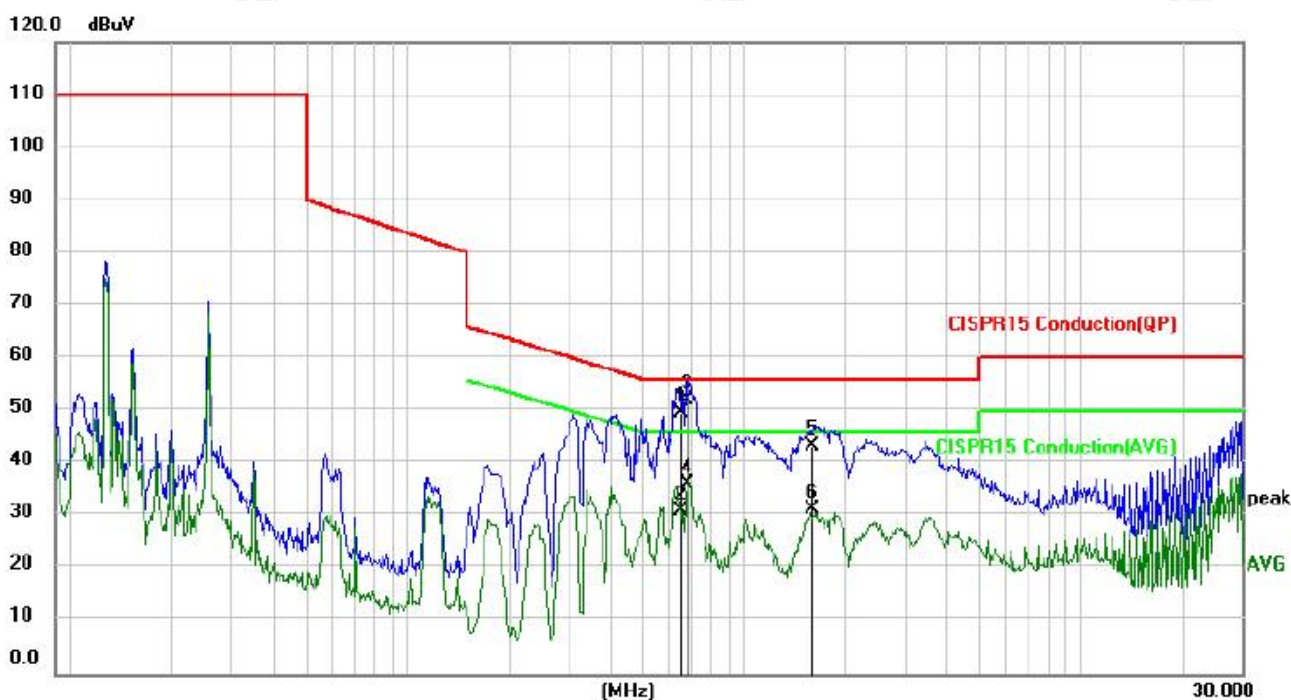




ANNEX A - TEST RESULTS

A.1. CONDUCTED DISTURBANCE TEST RESULTS

Environmental Conditions	23.9°C, 53% RH
Model	DS-EL-01M
Operating mode	Mode 2 (worst case)
Test voltage	AC 240V,50Hz
Test engineer	Sam Chen
Pol	Line

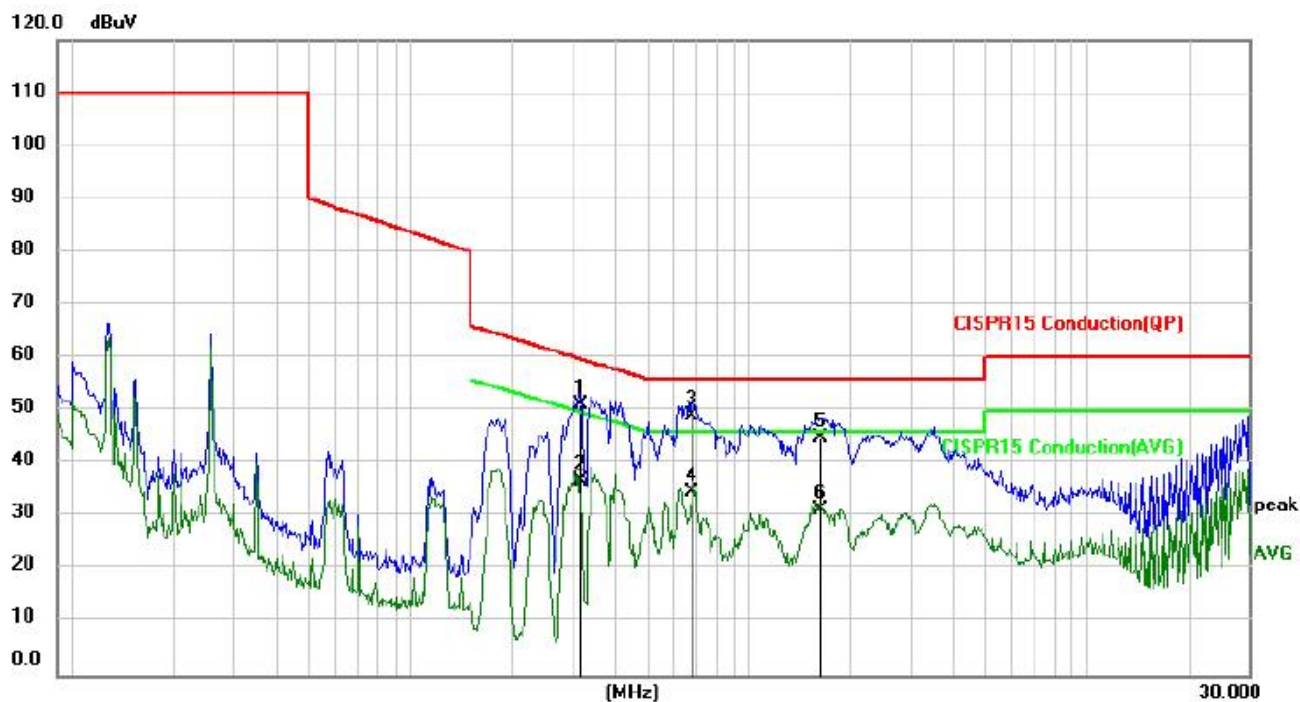


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.6478	39.52	10.20	49.72	56.00	-6.28	QP	
2		0.6478	20.95	10.20	31.15	46.00	-14.85	AVG	
3	*	0.6774	41.90	10.20	52.10	56.00	-3.90	QP	
4		0.6774	26.06	10.20	36.26	46.00	-9.74	AVG	
5		1.5838	33.12	10.20	43.32	56.00	-12.68	QP	
6		1.5838	21.08	10.20	31.28	46.00	-14.72	AVG	





Environmental Conditions	23.9°C, 53% RH
Model	DS-EL-01M
Operating mode	Mode 2 (worst case)
Test voltage	AC 240V,50Hz
Test engineer	Sam Chen
Pol	Neutral

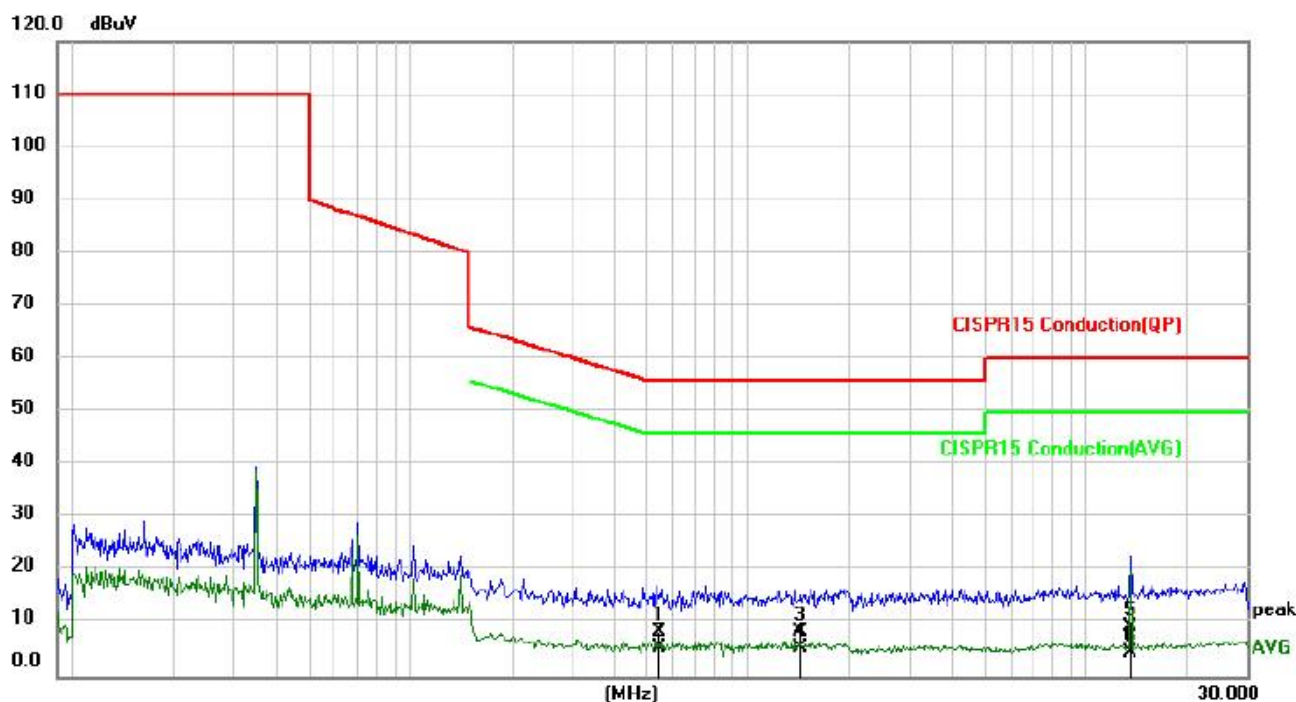


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3147	40.89	10.20	51.09	59.85	-8.76	QP	
2		0.3147	26.44	10.20	36.64	49.85	-13.21	AVG	
3	*	0.6761	38.87	10.20	49.07	56.00	-6.93	QP	
4		0.6761	24.34	10.20	34.54	46.00	-11.46	AVG	
5		1.6231	34.72	10.20	44.92	56.00	-11.08	QP	
6		1.6231	21.16	10.20	31.36	46.00	-14.64	AVG	





Environmental Conditions	23.9°C, 53% RH
Model	DS-EL-01M
Operating mode	Mode 3 (worst case)
Test voltage	DC
Test engineer	Sam Chen
Pol	Line

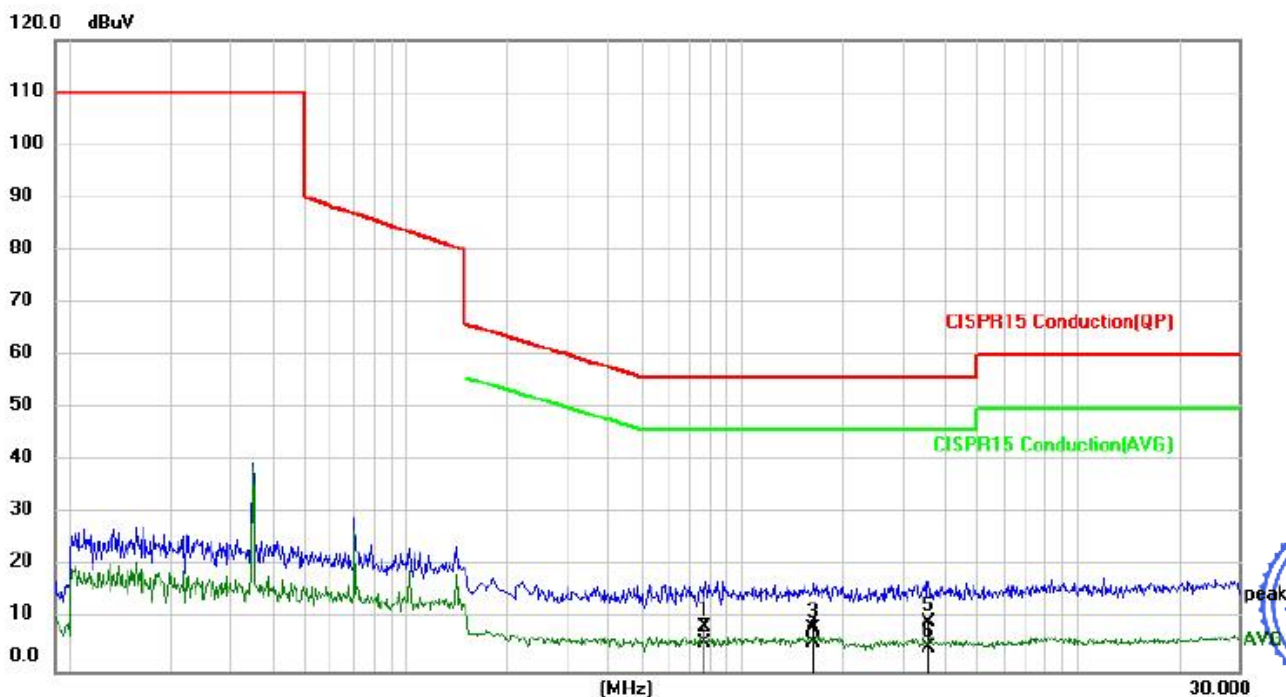


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.5475	-1.77	10.20	8.43	56.00	-47.57	QP	
2	*	0.5475	-4.55	10.20	5.65	46.00	-40.35	AVG	
3		1.4438	-1.77	10.20	8.43	56.00	-47.57	QP	
4		1.4438	-4.67	10.20	5.53	46.00	-40.47	AVG	
5		13.5673	-0.86	10.20	9.34	60.00	-50.66	QP	
6		13.5673	-5.45	10.20	4.75	50.00	-45.25	AVG	





Environmental Conditions	23.9°C, 53% RH
Model	DS-EL-01M
Operating mode	Mode 3 (worst case)
Test voltage	DC
Test engineer	Sam Chen
Pol	Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.7685	-1.68	10.20	8.52	56.00	-47.48	QP	
2	*	0.7685	-4.59	10.20	5.61	46.00	-40.39	AVG	
3		1.6216	-1.86	10.20	8.34	56.00	-47.66	QP	
4		1.6216	-4.69	10.20	5.51	46.00	-40.49	AVG	
5		3.5711	-0.86	10.20	9.34	56.00	-46.66	QP	
6		3.5711	-5.48	10.20	4.72	46.00	-41.28	AVG	



**A.2. RADIATED DISTURBANCE TEST RESULTS (9kHz - 30MHz)**

Environmental Conditions	23.9℃, 53% RH
Model	DS-EL-01M
Operating mode	Mode 2 (worst case)
Test voltage	AC 240V,50Hz
Test engineer	Sam Chen
Pol	X



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Over dB	Detector	Comment
1		5.3303	12.40	-15.23	-2.83	22.00	-24.83	QP	
2		8.6720	16.41	-18.15	-1.74	22.00	-23.74	QP	
3	*	22.5849	32.30	-33.55	-1.25	22.00	-23.25	QP	



Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

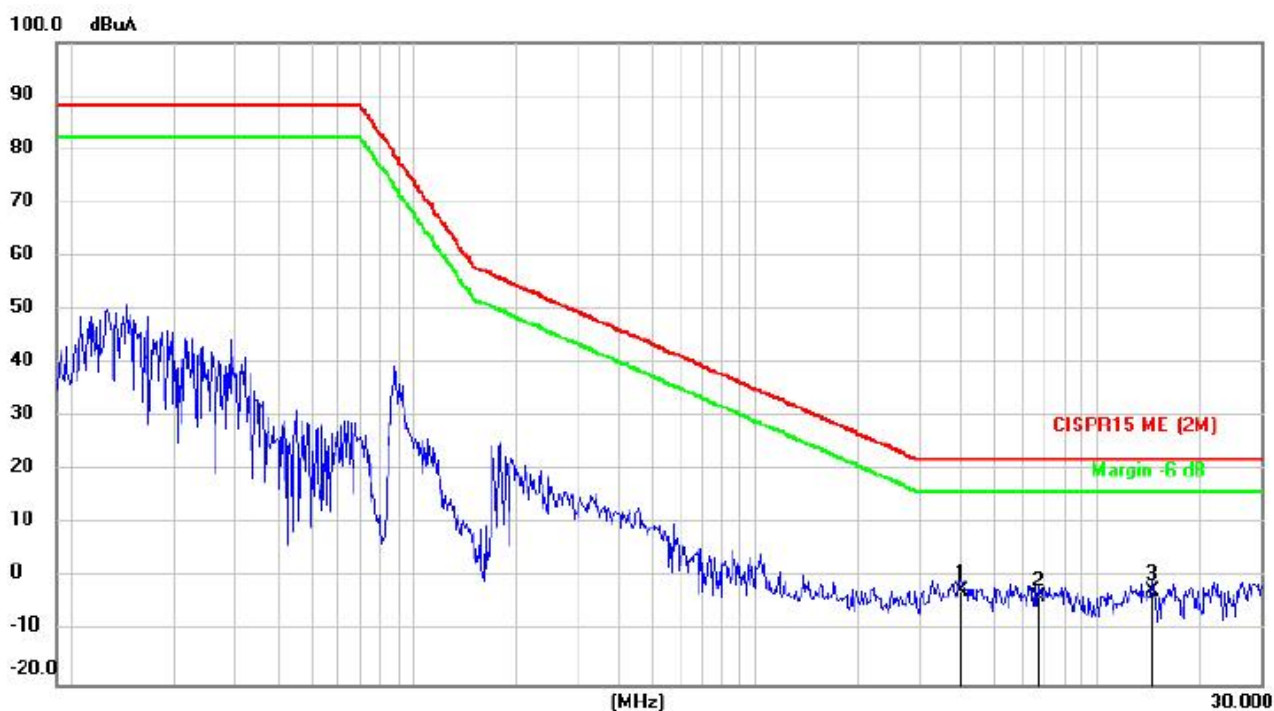
101-201, No. 39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China.

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com.

Scan code to check authenticity.



Environmental Conditions	23.9°C, 53% RH
Model	DS-EL-01M
Operating mode	Mode 2 (worst case)
Test voltage	AC 240V, 50Hz
Test engineer	Sam Chen
Pol	Y

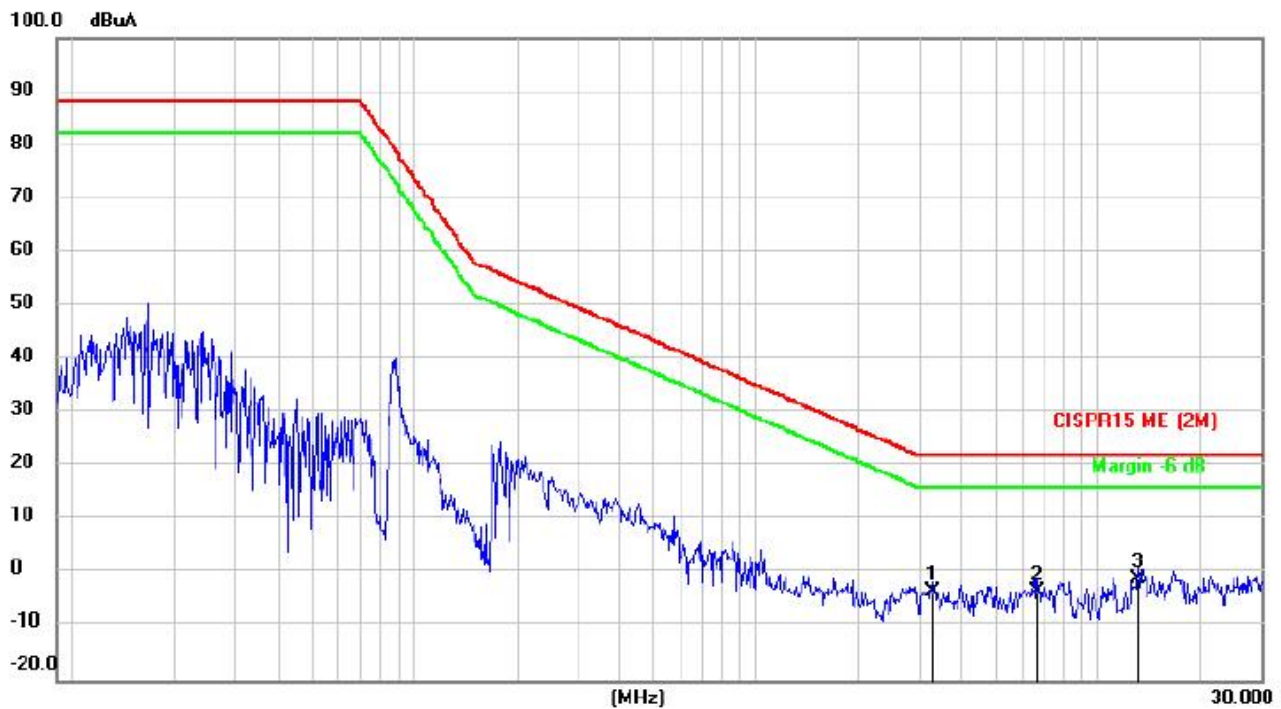


No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Over dB	Detector	Comment
1		3.9803	12.69	-15.11	-2.42	22.00	-24.42	QP	
2		6.6894	12.25	-15.75	-3.50	22.00	-25.50	QP	
3	*	14.4565	23.54	-25.91	-2.37	22.00	-24.37	QP	





Environmental Conditions	23.9°C, 53% RH
Model	DS-EL-01M
Operating mode	Mode 2 (worst case)
Test voltage	AC 240V, 50Hz
Test engineer	Sam Chen
Pol	Z



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuA	dB	dBuA	dBuA	dB	Detector	Comment
1		3.2761	12.21	-15.50	-3.29	22.00	-25.29	QP	
2		6.6352	12.51	-15.72	-3.21	22.00	-25.21	QP	
3	*	13.1156	22.97	-23.86	-0.89	22.00	-22.89	QP	



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Environmental Conditions	23.9°C, 53% RH
Model	DS-EL-01M
Operating mode	Mode 3 (worst case)
Test voltage	DC
Test engineer	Sam Chen
Pol	X



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Over dB	Detector	Comment
1		3.8532	11.60	-15.18	-3.58	22.00	-25.58	QP	
2	*	8.8139	15.42	-18.47	-3.05	22.00	-25.05	QP	
3		19.3591	25.50	-28.81	-3.31	22.00	-25.31	QP	



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Environmental Conditions	23.9°C, 53% RH
Model	DS-EL-01M
Operating mode	Mode 3 (worst case)
Test voltage	DC
Test engineer	Sam Chen
Pol	Y



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Over dB	Detector	Comment
1		3.8222	12.43	-15.20	-2.77	22.00	-24.77	QP	
2		8.6020	15.28	-17.98	-2.70	22.00	-24.70	QP	
3	*	22.5849	32.60	-33.55	-0.95	22.00	-22.95	QP	



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Environmental Conditions	23.9°C, 53% RH
Model	DS-EL-01M
Operating mode	Mode 3 (worst case)
Test voltage	DC
Test engineer	Sam Chen
Pol	Z



No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Over dB	Detector	Comment
1		4.0453	10.14	-15.10	-4.96	22.00	-26.96	QP	
2		7.1379	12.51	-16.04	-3.53	22.00	-25.53	QP	
3	*	15.6780	25.27	-27.01	-1.74	22.00	-23.74	QP	





A.3. RADIATED DISTURBANCE TEST RESULTS (30MHz - 300MHz)

Environmental Conditions	23.9℃, 51% RH
Model	DS-EL-01M
Operating mode	Mode 2 (worst case)
Test voltage	AC 240V,50Hz
Test engineer	Sam Chen
Pol	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	39.9596	24.09	11.31	35.40	40.00	-4.60	QP			
2		74.8808	24.96	10.35	35.31	40.00	-4.69	QP			
3		147.5692	23.70	11.50	35.20	40.00	-4.80	QP			



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Environmental Conditions	23.9°C, 51% RH
Model	DS-EL-01M
Operating mode	Mode 2 (worst case)
Test voltage	AC 240V, 50Hz
Test engineer	Sam Chen
Pol	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	73.3662	25.66	10.24	35.90	40.00	-4.10	QP		
2		103.2455	24.44	11.16	35.60	40.00	-4.40	QP		
3		146.6801	25.96	9.14	35.10	40.00	-4.90	QP		





Environmental Conditions	23.9°C, 51% RH
Model	DS-EL-01M
Operating mode	Mode 3 (worst case)
Test voltage	DC
Test engineer	Sam Chen
Pol	Vertical



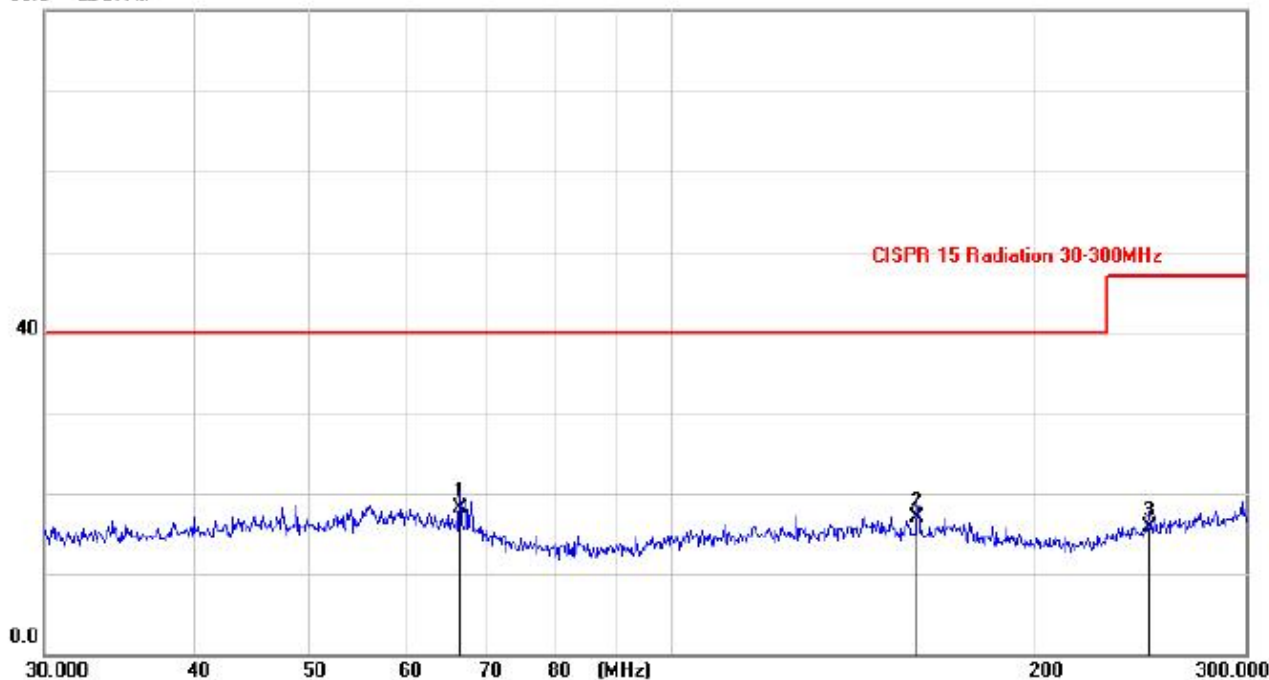
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1	*	55.8787	10.46	12.64	23.10	40.00	-16.90	QP		
2		75.0752	5.05	10.31	15.36	40.00	-24.64	QP		
3		160.0465	4.21	11.13	15.34	40.00	-24.66	QP		





Environmental Conditions	23.9°C, 51% RH
Model	DS-EL-01M
Operating mode	Mode 3 (worst case)
Test voltage	DC
Test engineer	Sam Chen
Pol	Horizontal

80.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	66.6993	6.90	11.20	18.10	40.00	-21.90	QP		
2		160.0005	6.94	9.88	16.82	40.00	-23.18	QP		
3		248.9552	3.05	12.72	15.77	47.00	-31.23	QP		



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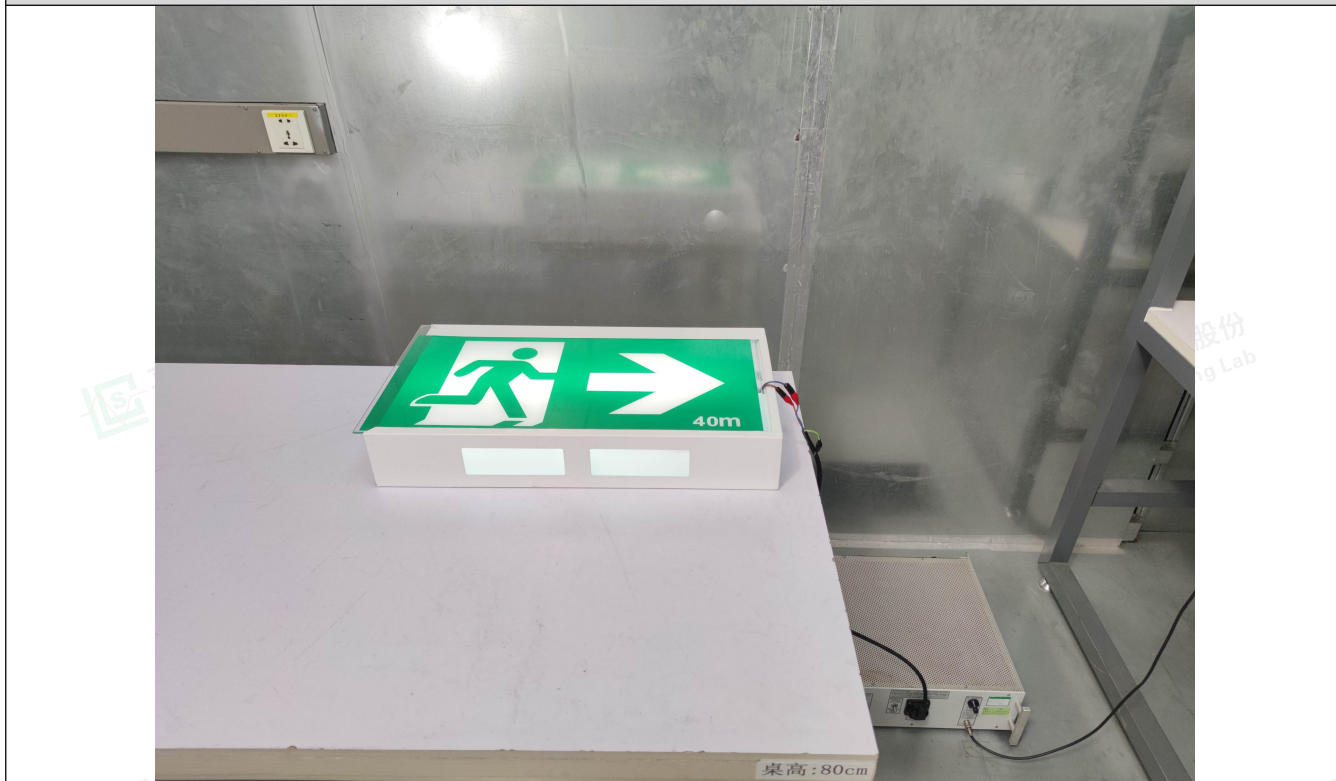
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ANNEX B - TEST PHOTOS

B.1. Conducted Disturbance at Mains terminals



B.2. Radiated Disturbance (9kHz - 30MHz)



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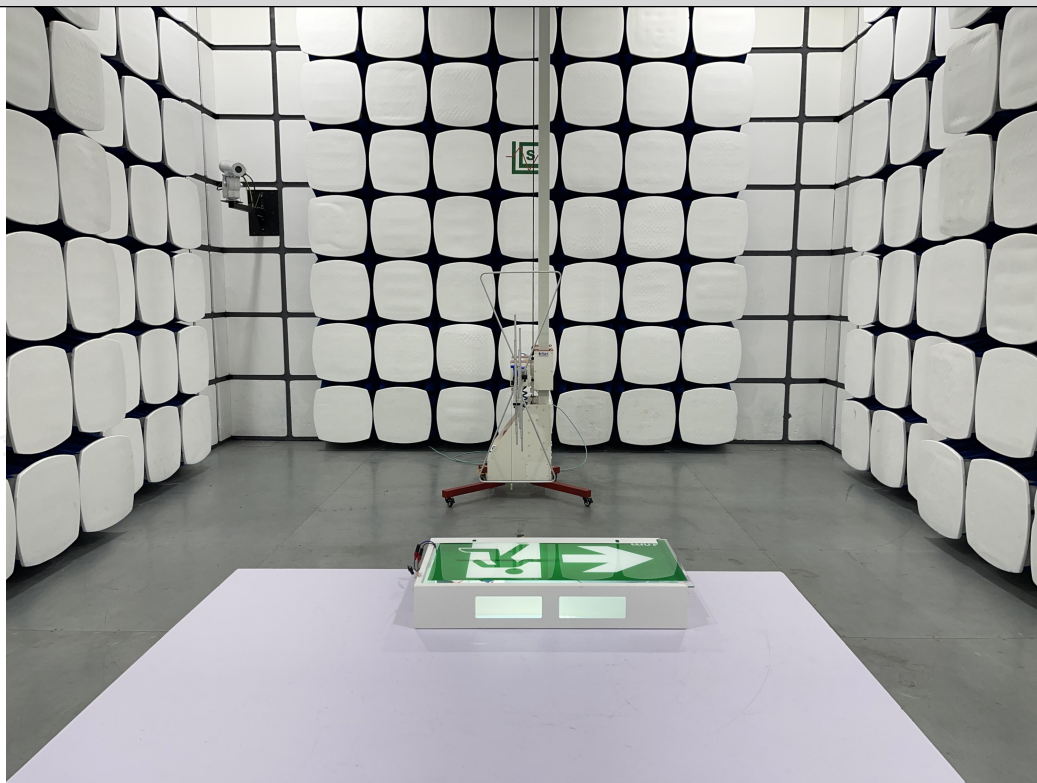
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B.3. Radiated Disturbance (30MHz to 300MHz)





ANNEX C - EXTERNAL AND INTERNAL PHOTOS OF THE EUT

The photographs show the equipment under test.



Figure. 1 DS-ES-01S



Figure. 2



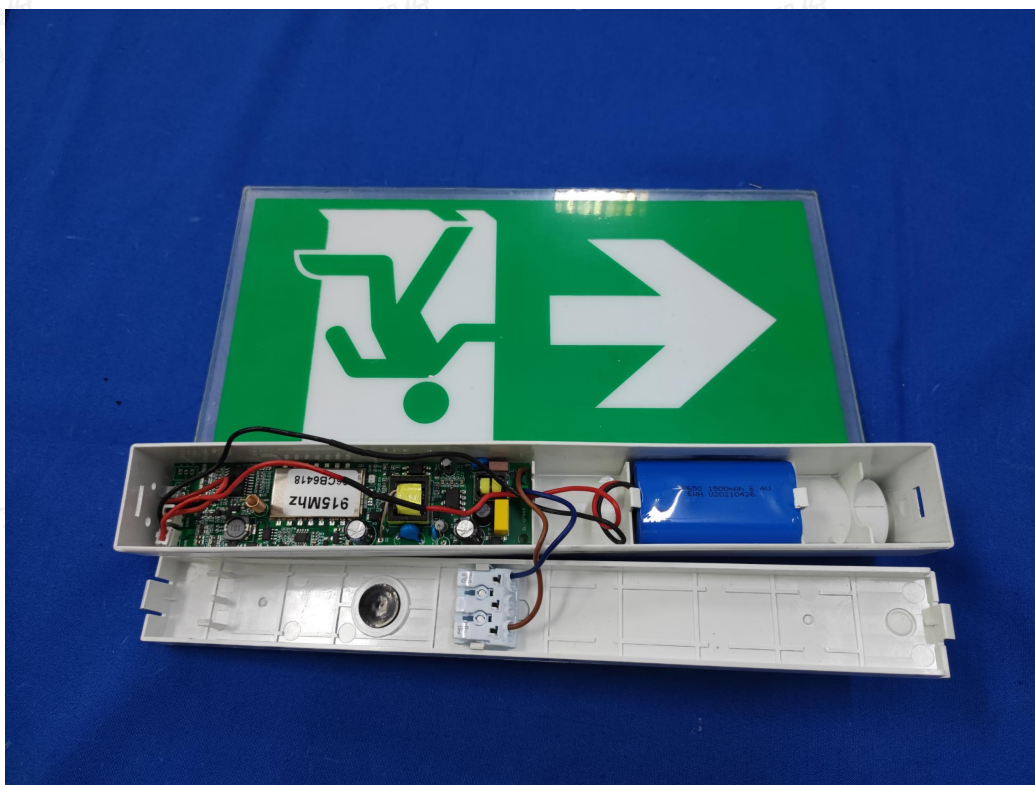


Figure. 3



Figure. 4



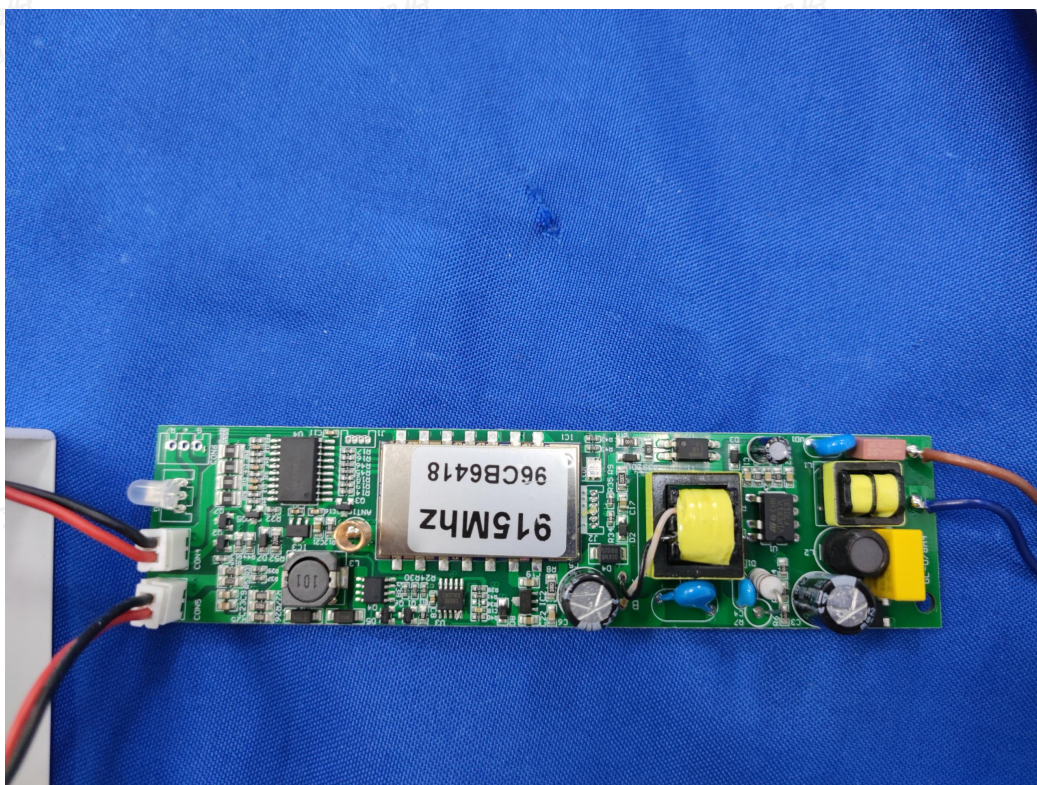


Figure. 5

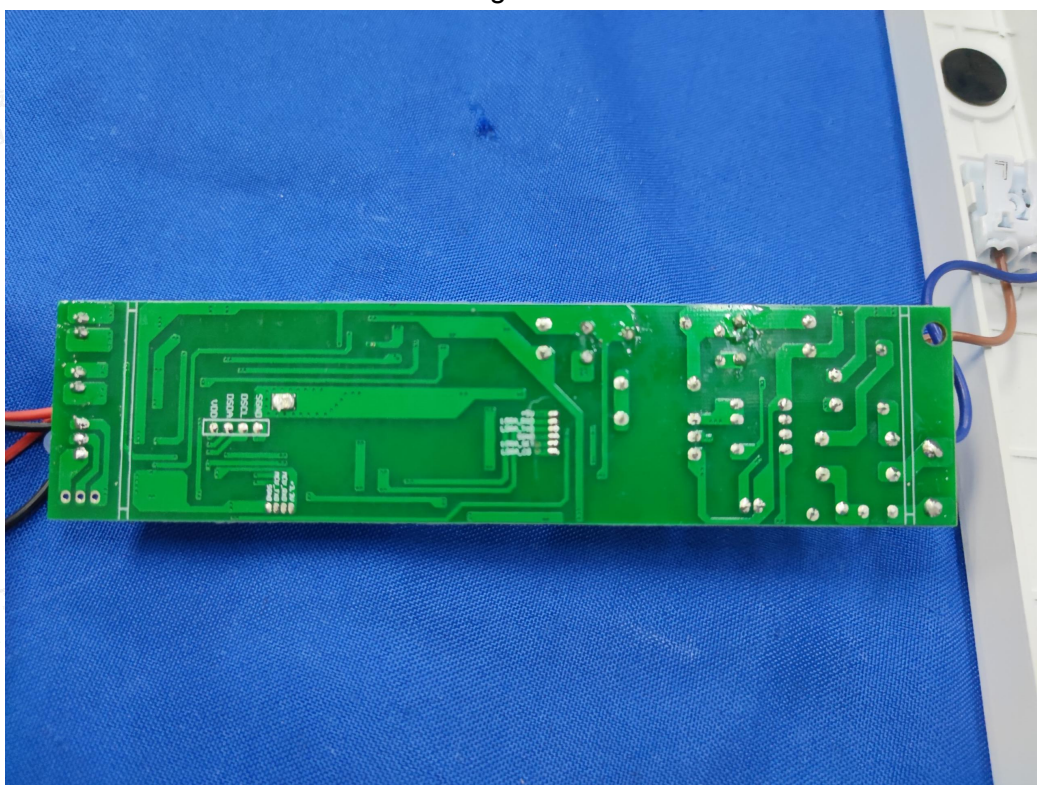


Figure. 6





Figure. 7

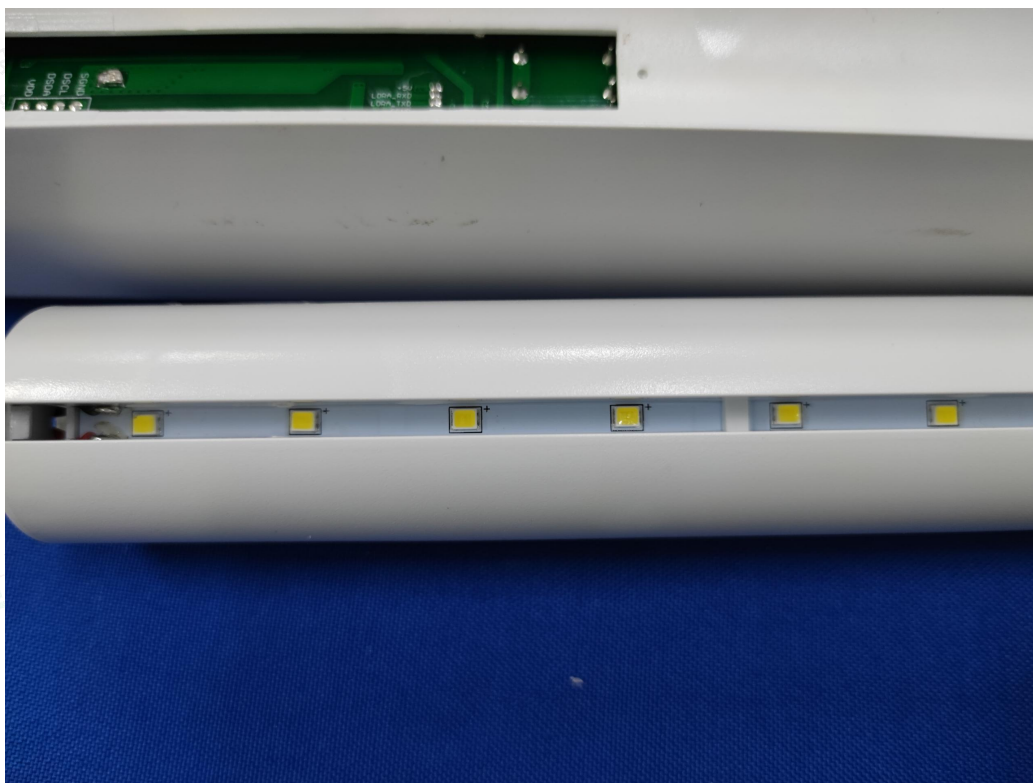


Figure. 8





Figure. 9 DS-ES-02S



Figure. 10 DS-ES-03S





Figure. 11 DS-ES-04S



Figure. 12 DS-ES-05S





Figure. 13 DS-ES-06S



----- END -----

