FCC TEST REPORT

For

Guangdong Guangyang Electric Co.,Ltd.

LED table lamp

Model No.:LA-N118

Prepared For	:	Guangdong Guangyang Electric Co.,Ltd.
Address	:	No.7 Chuangyi Road, Xiaolan Town, Zhongshan City, Guangdong Province, China
Prepared By	:	Shenzhen Anbotek Compliance Laboratory Limited
Address	:	1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102 Tel: (86) 755-26066440 Fax: (86) 755-26014772
Report Number	:	SZAWW180808003-01
Date of Receipt	:	Aug. 10, 2018
Date of Test	:	Aug. 13~27, 2018
Date of Report	:	Aug. 28, 2018

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TEST REPORT

Applicant	:	Guangdong Guangyang Electric Co.,Ltd.
Manufacturer	:	Guangdong Guangyang Electric Co.,Ltd.
Product Name	:	LED table lamp
Model No.	:	LA-N118
Trade Mark	:	GUANYA
Rating(s)	:	Input: DC 5.4V, 2.8A LED Output: DC 3V,1A (4W Max.) Wireless Output: DC 5V,1A
Test Standard(s)	**:**	**FCC Part15 Subpart C 2017, Paragraph 15.209**
Test Method(s)	**:**	**ANSI C63.10: 2013**

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 of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C 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 Test Aug. 13~27, 2018

Prepared by

(Engineer / Oliay Yang)

Reviewer

(Supervisor / Calvin Liu)

Approved & Authorized Signer

(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	Guangdong Guangyang Electric Co.,Ltd.
Address	:	No.7 Chuangyi Road, Xiaolan Town, Zhongshan City, Guangdong Province, China
Manufacturer	:	Guangdong Guangyang Electric Co.,Ltd.
Address	:	No.7 Chuangyi Road, Xiaolan Town, Zhongshan City, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	LED table lamp	
Model No.	:	LA-N118	
Trade Mark	:	GUANYA	
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter	
Test Sample No.	:	S1, S2	
Product Description	:	Operation Frequency:	111-205KHz
		Number of Channel:	20 Channels
		Modulation Type:	FSK
		Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: GUANYA Model：GY-052000 Input：AC 100~240V 50/60Hz 0.3A Output：DC 5.4V,2.8A
Phone	:	Manufacturer: SAMSUNG Product Name：Mobile Phone Model：S7

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH20
Mode 4	Keeping TX+Charging mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Keeping TX+Charging mode

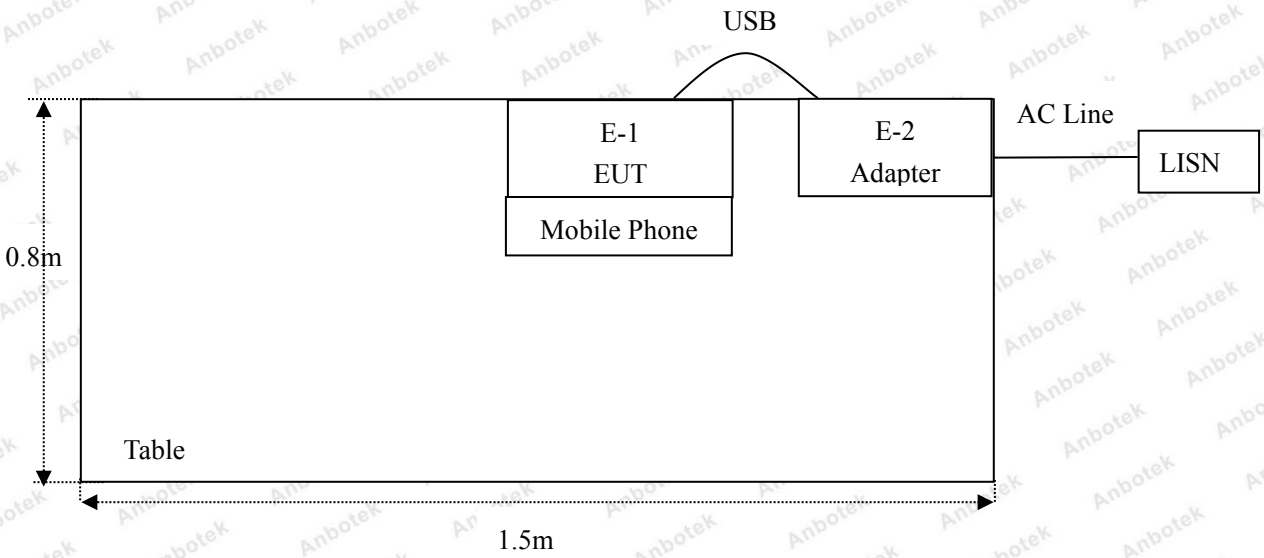
For Radiated Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH20
Mode 4	Keeping TX+Charging mode

1.5. List of channels

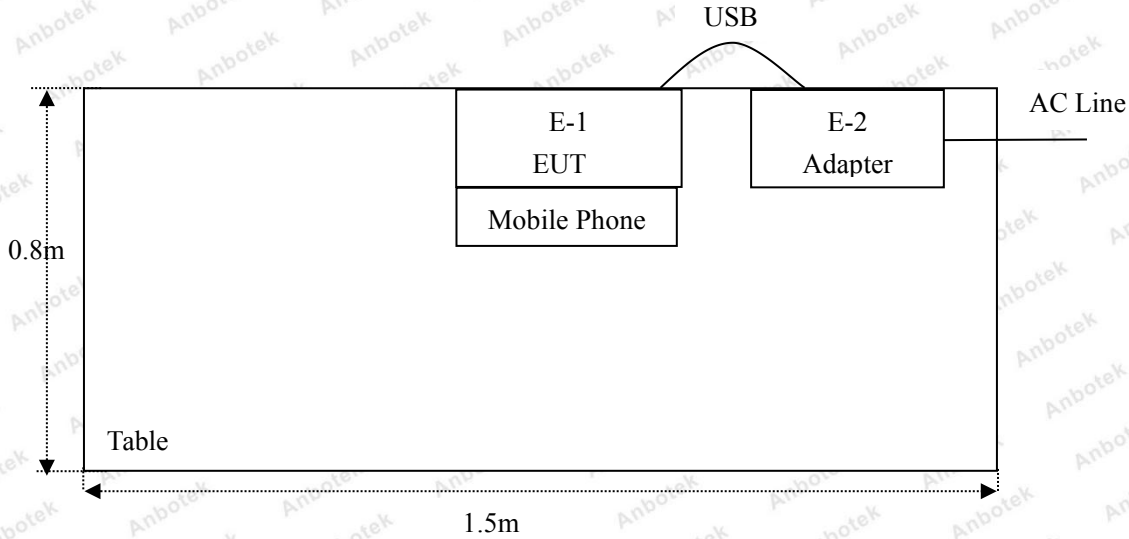
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	0.111	6	0.135	11	0.160	16	0.185
2	0.115	7	0.140	12	0.165	17	0.190
3	0.120	8	0.145	13	0.170	18	0.195
4	0.125	9	0.150	14	0.175	19	0.200
5	0.130	10	0.155	15	0.180	20	0.205

1.6. Description Of Test Setup

CE



RE



1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 17, 2017	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 17, 2017	1 Year
5.	Spectrum Analysis	Agilent	N9038A	MY53227295	Nov. 17, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 17, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
8.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
10.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
11.	Horn Antenna	Schewarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
16.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
17.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
18.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
19.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
20.	DC Power Supply	LW	TPR-6410D	349315	Nov. 01, 2017	1 Year
21.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80B	ZJ-17042804	Nov. 01, 2017	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.9. 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 registed 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, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

Test Location

All Emissions tests were performed at Shenzhen Anbotek Compliance Laboratory Limited. at 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

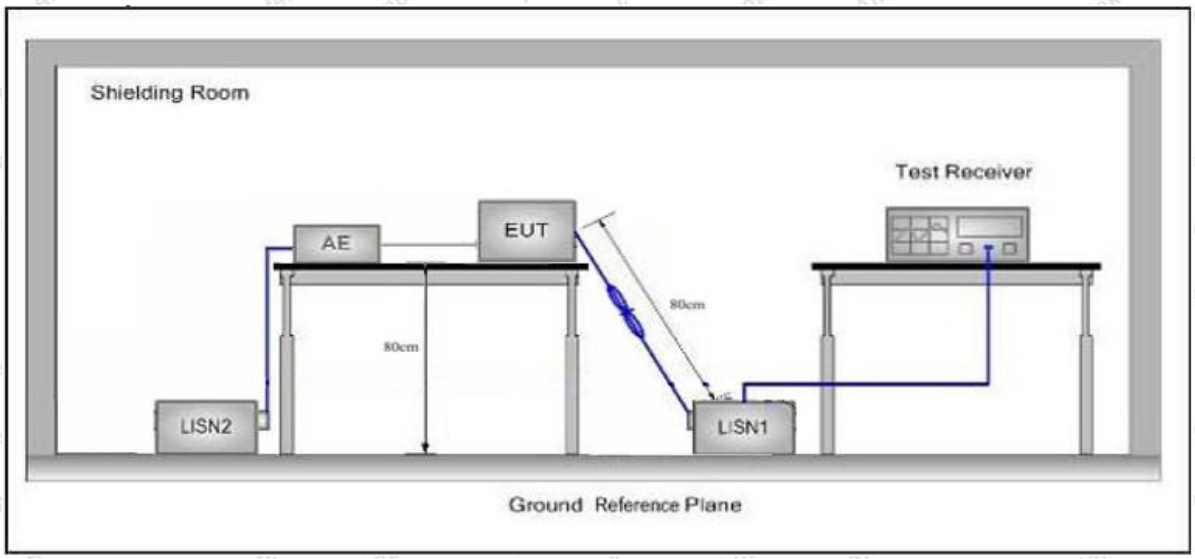
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS

3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
Remark: (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

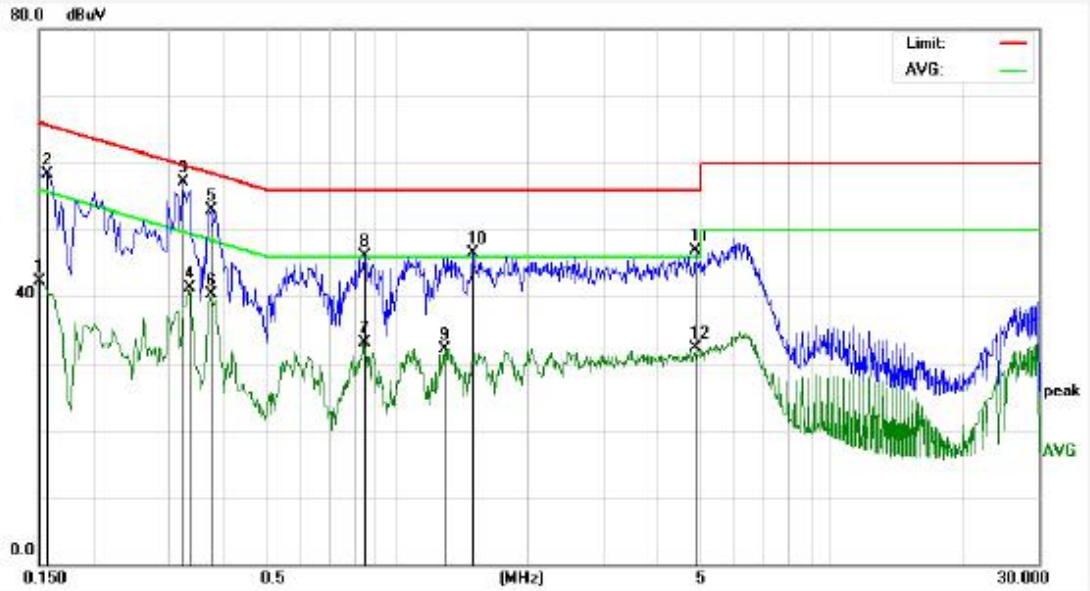
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

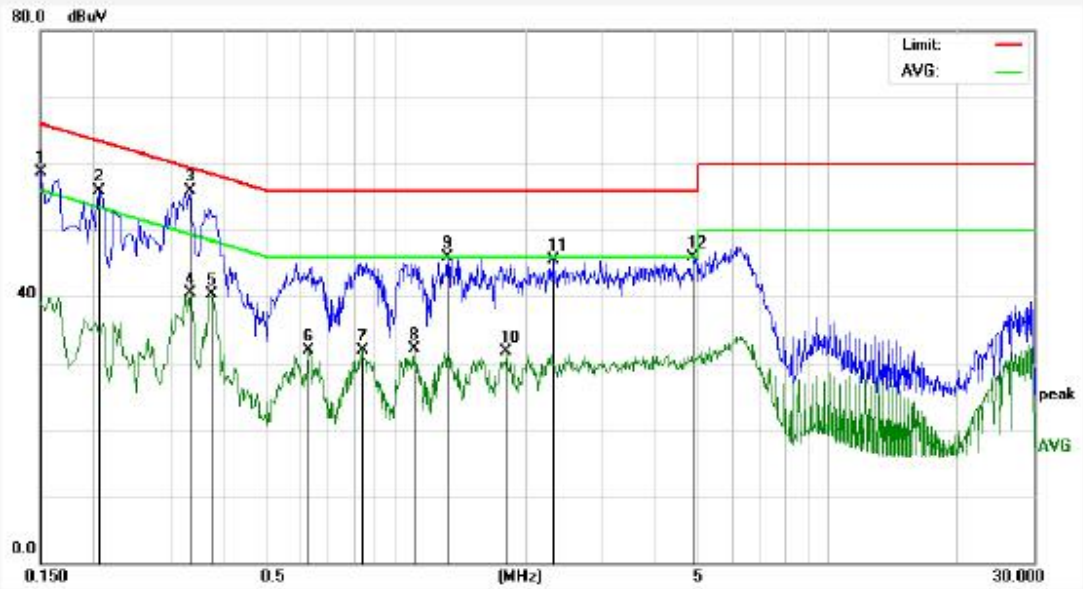
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 22.2℃ Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1499	22.50	19.90	42.40	56.00	-13.60	AVG	
2	0.1580	38.47	19.90	58.37	65.56	-7.19	peak	
3	0.3220	37.11	19.90	57.01	59.65	-2.64	peak	
4	0.3339	21.31	19.91	41.22	49.35	-8.13	AVG	
5	0.3740	32.95	19.92	52.87	58.41	-5.54	peak	
6	0.3740	20.38	19.92	40.30	48.41	-8.11	AVG	
7	0.8420	12.98	20.08	33.06	46.00	-12.94	AVG	
8	0.8460	26.00	20.08	46.08	56.00	-9.92	peak	
9	1.2940	12.06	20.13	32.19	46.00	-13.81	AVG	
10	1.4980	26.43	20.13	46.56	56.00	-9.44	peak	
11	4.8659	26.69	20.20	46.89	56.00	-9.11	peak	
12	4.8859	12.14	20.20	32.34	46.00	-13.66	AVG	

Conducted Emission Test Data

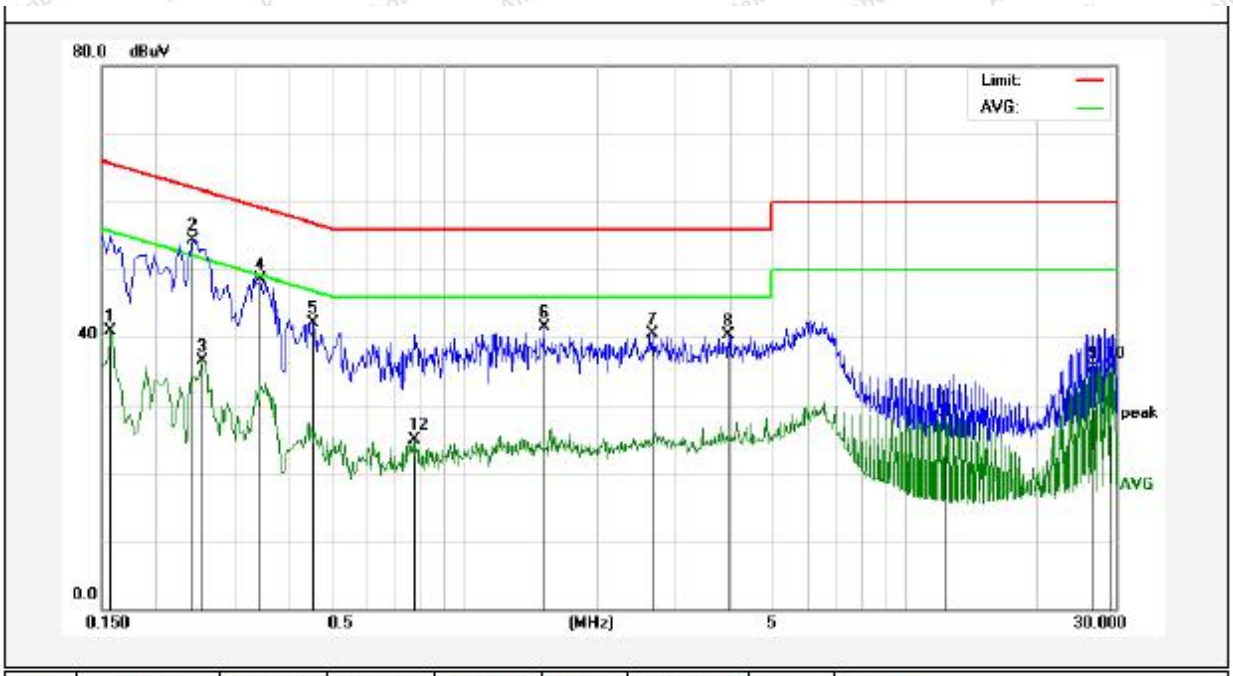
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 22.2℃ Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	38.73	19.90	58.63	65.99	-7.36	peak	
2	0.2060	35.99	19.90	55.89	63.36	-7.47	peak	
3	0.3339	35.91	19.91	55.82	59.35	-3.53	peak	
4	0.3339	20.58	19.91	40.49	49.35	-8.86	AVG	
5	0.3740	20.42	19.92	40.34	48.41	-8.07	AVG	
6	0.6300	11.94	20.02	31.96	46.00	-14.04	AVG	
7	0.8380	11.92	20.08	32.00	46.00	-14.00	AVG	
8	1.1019	11.92	20.12	32.04	46.00	-13.96	AVG	
9	1.3180	25.76	20.13	45.89	56.00	-10.11	peak	
10	1.8020	11.52	20.14	31.66	46.00	-14.34	AVG	
11	2.3100	25.41	20.15	45.56	56.00	-10.44	peak	
12	4.8859	25.63	20.20	45.83	56.00	-10.17	peak	

Conducted Emission Test Data

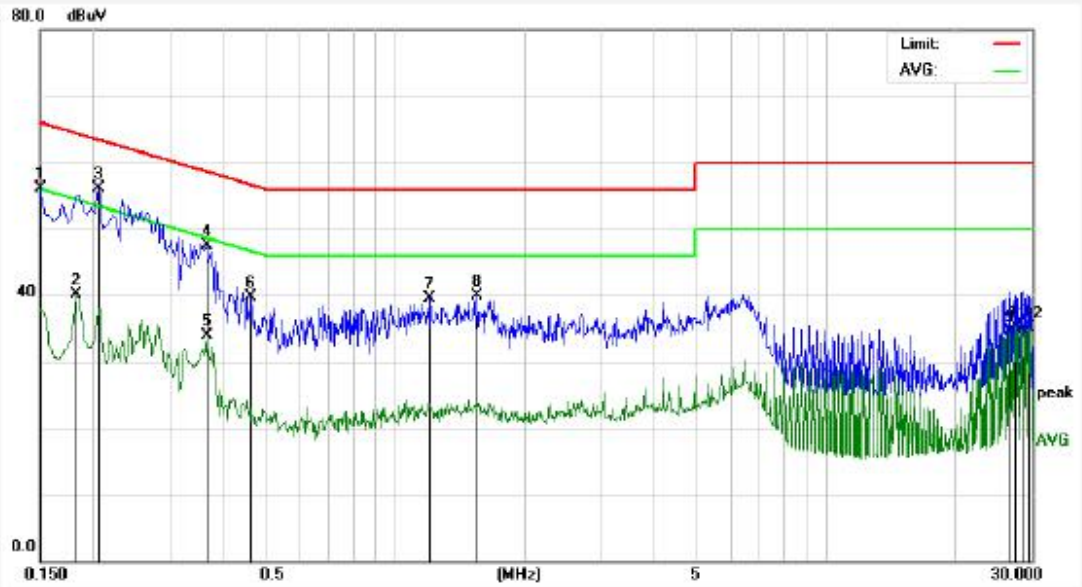
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 22.2℃ Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1580	21.10	19.90	41.00	55.56	-14.56	AVG	
2	0.2420	34.35	19.89	54.24	62.02	-7.78	peak	
3	0.2540	16.64	19.89	36.53	51.62	-15.09	AVG	
4	0.3460	28.54	19.91	48.45	59.06	-10.61	peak	
5	0.4540	22.09	19.96	42.05	56.80	-14.75	peak	
6	1.5180	21.36	20.13	41.49	56.00	-14.51	peak	
7	2.6700	20.30	20.15	40.45	56.00	-15.55	peak	
8	3.9660	20.20	20.18	40.38	56.00	-15.62	peak	
9	26.8020	15.24	20.28	35.52	50.00	-14.48	AVG	
10	29.2260	15.16	20.27	35.43	50.00	-14.57	AVG	
11	12.2780	8.66	20.30	28.96	50.00	-21.04	AVG	
12	0.7740	4.78	20.06	24.84	46.00	-21.16	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 22.2℃ Hum.: 59%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	36.21	19.90	56.11	65.99	-9.88	peak	
2	0.1819	20.29	19.90	40.19	54.39	-14.20	AVG	
3	0.2060	36.25	19.90	56.15	63.36	-7.21	peak	
4	0.3660	27.52	19.92	47.44	58.59	-11.15	peak	
5	0.3660	13.99	19.92	33.91	48.59	-14.68	AVG	
6	0.4660	19.71	19.96	39.67	56.58	-16.91	peak	
7	1.2059	19.32	20.12	39.44	56.00	-16.56	peak	
8	1.5540	19.75	20.13	39.88	56.00	-16.12	peak	
9	26.8060	14.16	20.28	34.44	50.00	-15.56	AVG	
10	27.4980	15.11	20.27	35.38	50.00	-14.62	AVG	
11	28.5380	14.58	20.27	34.85	50.00	-15.15	AVG	
12	29.5740	14.85	20.27	35.12	50.00	-14.88	AVG	

4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:
(1)The lower limit shall apply at the transition frequency.
(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

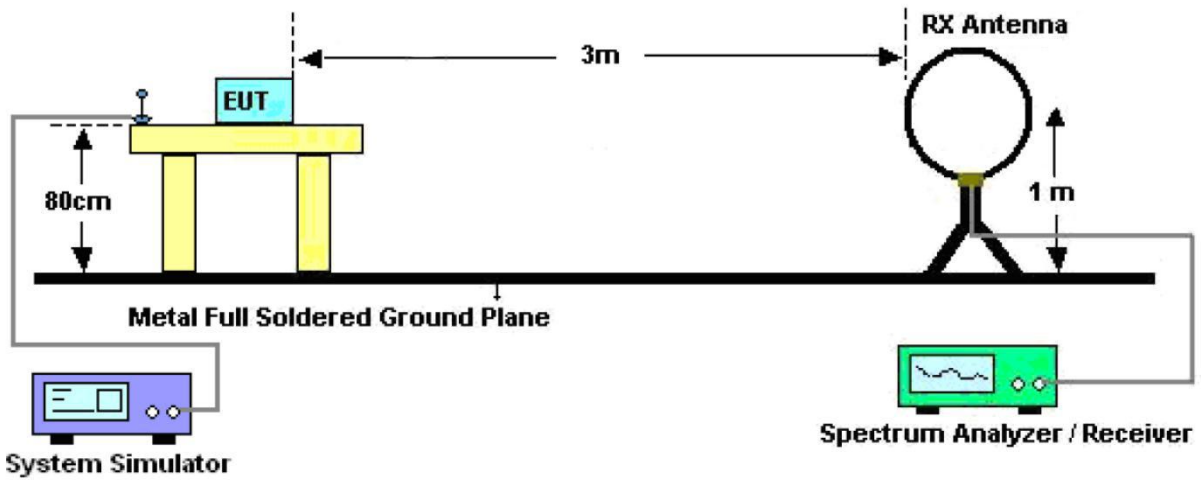


Figure 1. Below 30MHz

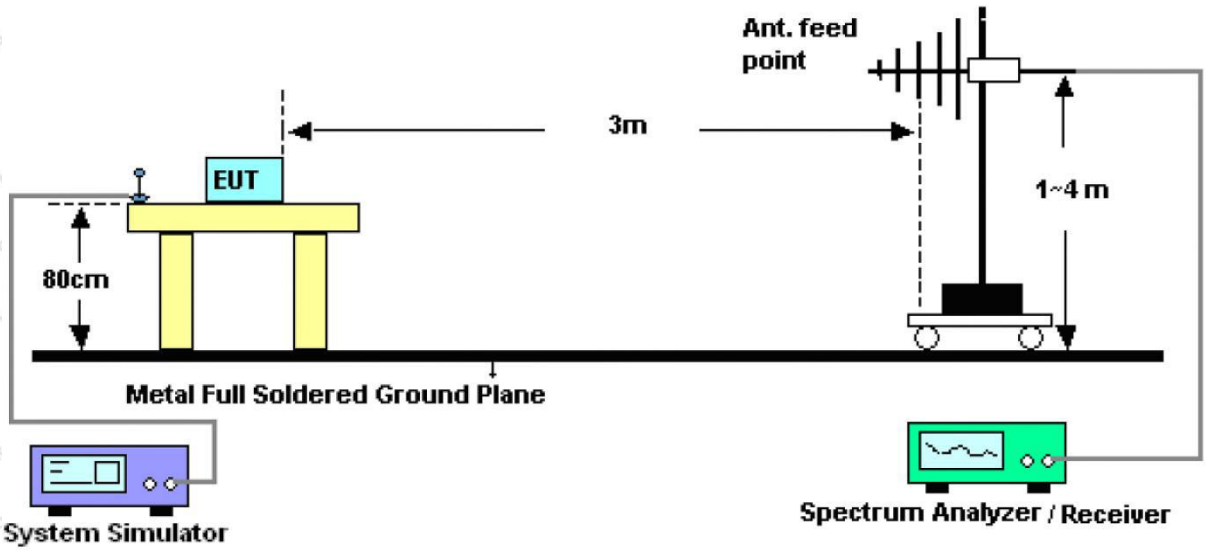


Figure 2. 30MHz to 1GHz

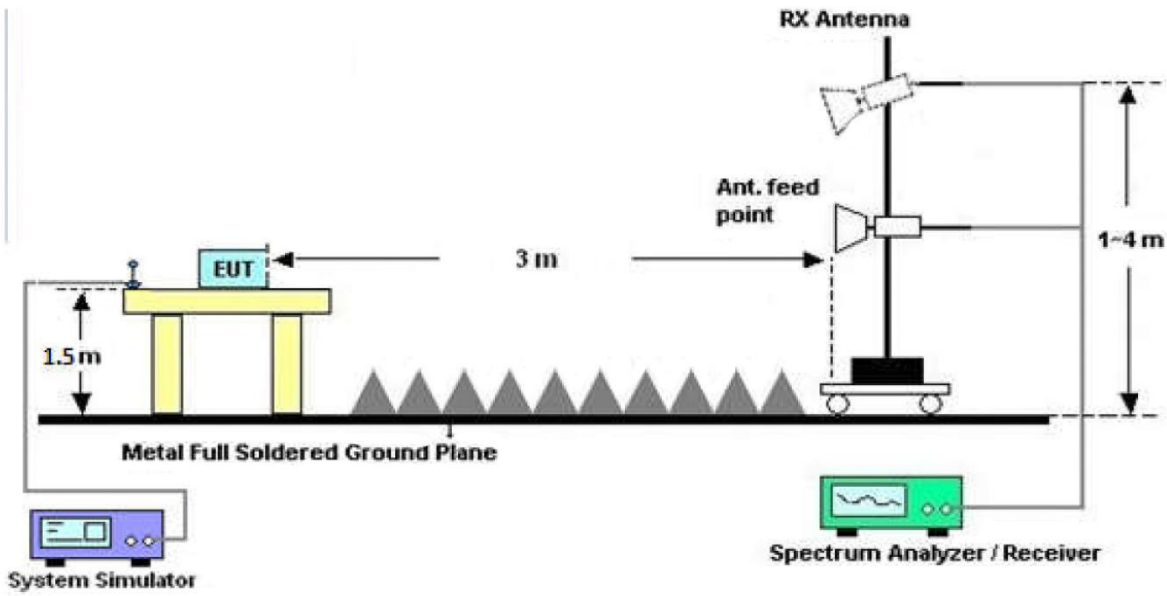


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.
For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.
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 a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:
RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:
RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

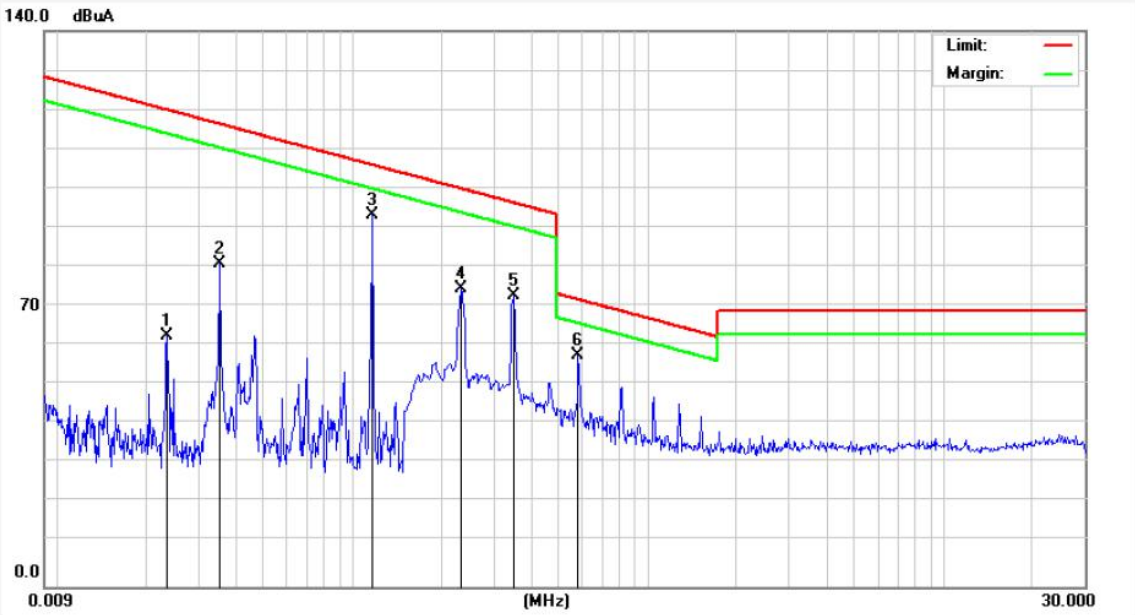
4.4. Test Data

PASS

Test Results

(Between 9KHz – 30MHz)

Job No.:	**SZAWW180808003-01**		
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(℃)/Hum.(%RH):**	**25.4(℃)/54%RH**
Test Mode:	**Mode 4**	**Distance:**	**3m**



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dge)
0.0234	41.57	19.26	2.50	0	63.33	120.15	-56.82	Peak	25
0.0234	38.55	19.26	2.50	0	60.31	100.15	-39.84	AV	25
0.0355	59.56	19.28	2.53	0	81.37	116.54	-35.17	Peak	33
0.0355	57.16	19.28	2.53	0	78.97	96.54	-17.57	AV	33
0.1164	71.95	19.29	2.54	0	93.78	106.25	-12.47	Peak	110
0.1164	59.15	19.29	2.54	0	80.98	86.25	-5.27	AV	110
0.2340	53.17	19.40	2.56	0	75.13	100.20	-25.07	Peak	120
0.2340	50.36	19.40	2.56	0	72.32	80.20	-7.88	AV	120
0.3500	51.10	19.53	2.59	0	73.22	96.71	-23.49	Peak	341
0.3500	25.80	19.53	2.59	0	47.92	76.71	-28.79	AV	341
0.5820	35.26	20.35	2.61	0	58.22	72.30	-14.08	QP	0

Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

(Between 30MHz –1000 MHz)

Job No.:	**SZAWW180808003-01**	**Polarization:**	**Horizontal**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(℃)/Hum.(%RH):**	**24.3(℃)/55%RH**
Test Mode:	**Mode 4**	**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	31.3992	44.90	-18.15	26.75	40.00	-13.25	QP	300	94	
2	43.8119	40.13	-15.10	25.03	40.00	-14.97	QP	300	110	
3	56.9912	41.40	-16.83	24.57	40.00	-15.43	QP	300	156	
4	117.7725	47.92	-21.18	26.74	43.50	-16.76	QP	300	254	
5	241.6763	48.74	-17.58	31.16	46.00	-14.84	QP	300	301	
6	273.2341	56.45	-18.22	38.23	46.00	-7.77	QP	300	354	

Job No.:	**SZAWW180808003-01**	**Polarization:**	**Vertical**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(℃)/Hum.(%RH):**	**24.3(℃)/55%RH**
Test Mode:	**Mode 4**	**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	31.3693	53.67	-17.16	36.51	40.00	-3.49	QP	300	125	
2	39.5891	49.26	-13.60	35.66	40.00	-4.34	QP	300	99	
3	45.3755	49.55	-14.43	35.12	40.00	-4.88	QP	300	194	
4	112.1305	48.26	-14.77	33.49	43.50	-10.01	QP	300	221	
5	169.0054	46.55	-16.60	29.95	43.50	-13.55	QP	300	296	
6	281.0075	52.68	-15.01	37.67	46.00	-8.33	QP	300	336	

Job No.:	**SZAWW180808003-01**	**Polarization:**	**Horizontal**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 240V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(℃)/Hum.(%RH):**	**24.3(℃)/55%RH**
Test Mode:	**Mode 4**	**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	38.3462	39.05	-15.26	23.79	40.00	-16.21	QP	300	125	
2	57.3923	42.69	-16.86	25.83	40.00	-14.17	QP	300	76	
3	112.5244	48.24	-20.80	27.44	43.50	-16.06	QP	300	196	
4	226.8936	46.06	-18.69	27.37	46.00	-18.63	QP	300	214	
5	275.1570	57.52	-18.16	39.36	46.00	-6.64	QP	300	276	
6	417.6411	36.36	-12.44	23.92	46.00	-22.08	QP	300	330	

Job No.:	**SZAWW180808003-01**	**Polarization:**	**Vertical**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 240V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(℃)/Hum.(%RH):**	**24.3(℃)/55%RH**
Test Mode:	**Mode 4**	**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	40.1347	46.86	-13.40	33.46	40.00	-6.54	QP	300	75	
2	45.6948	49.02	-14.50	34.52	40.00	-5.48	QP	300	112	
3	59.6493	50.21	-15.98	34.23	40.00	-5.77	QP	300	256	
4	114.6503	51.88	-14.95	36.93	43.50	-6.57	QP	300	312	
5	155.3644	52.86	-17.09	35.77	43.50	-7.73	QP	300	330	
6	274.1939	57.75	-14.61	43.14	46.00	-2.86	QP	300	360	

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

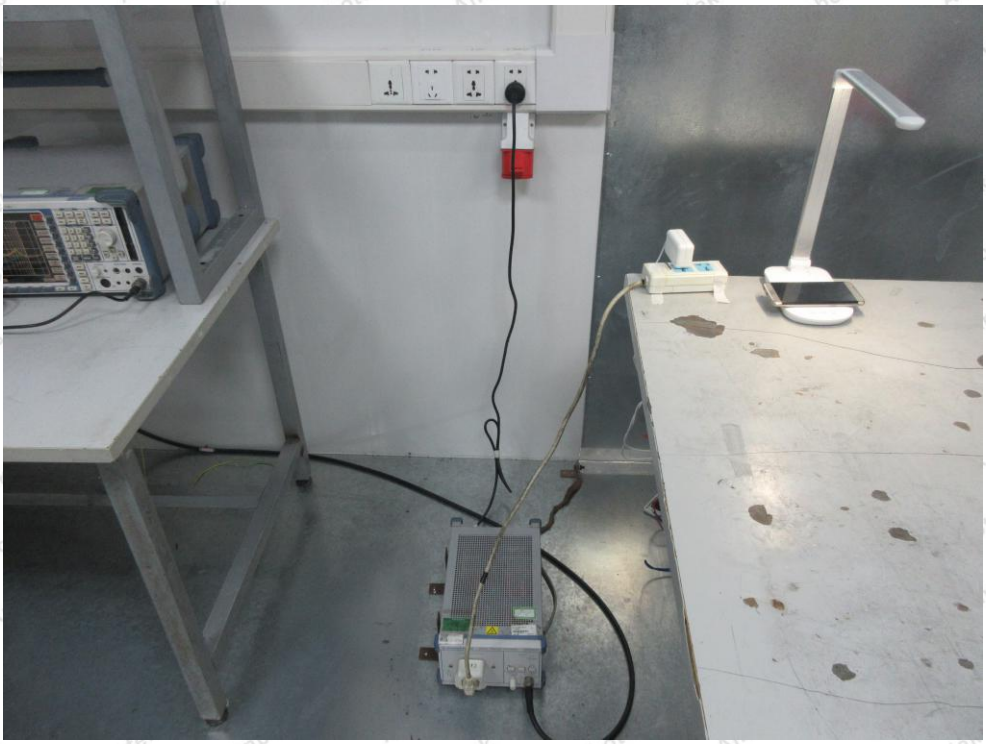
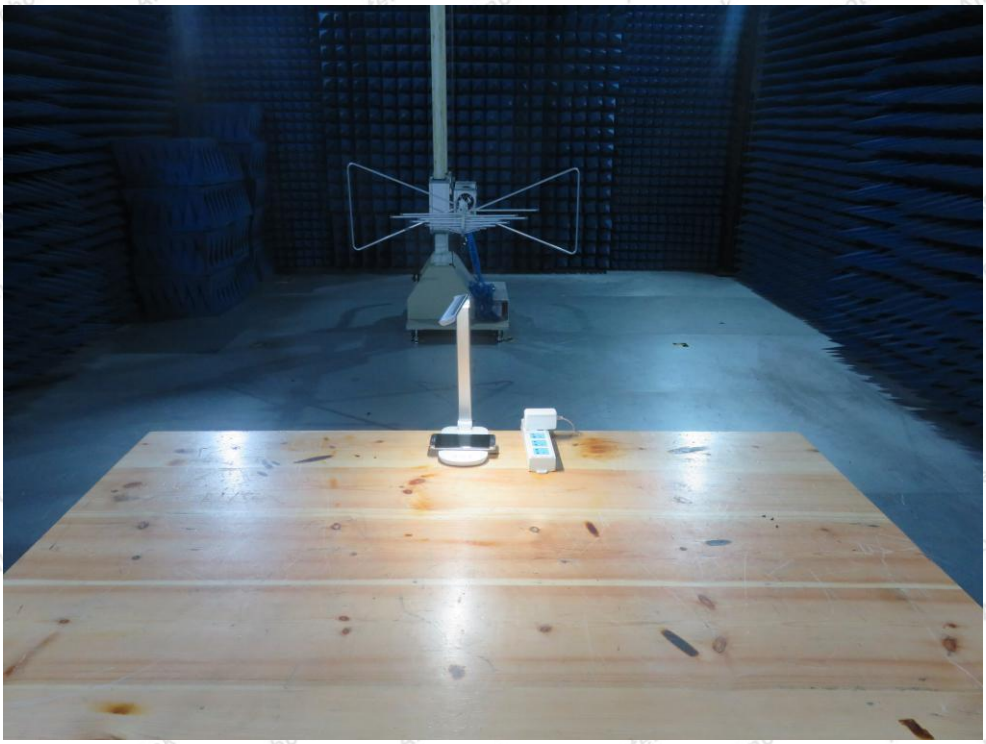
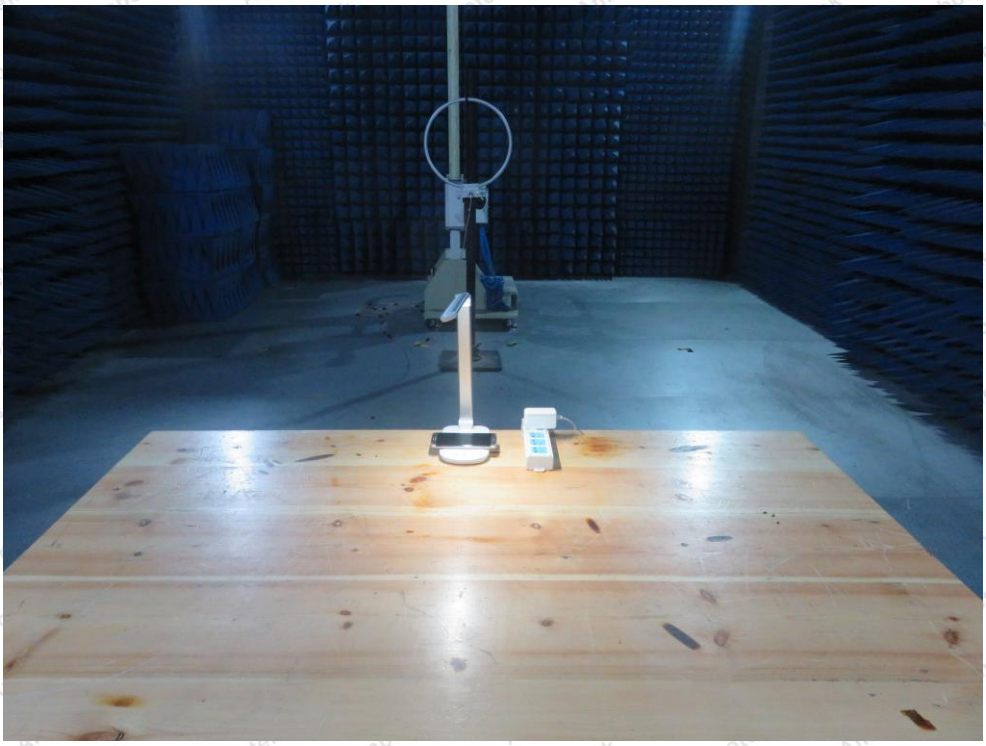
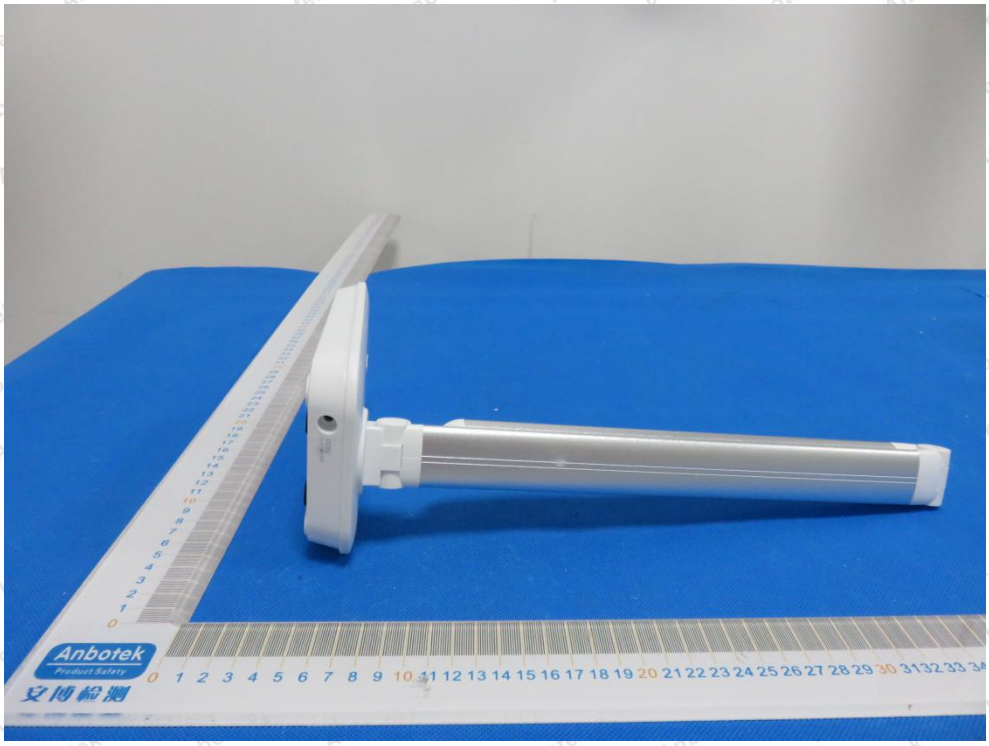


Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH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Product Safety
安博检测

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Product Safety
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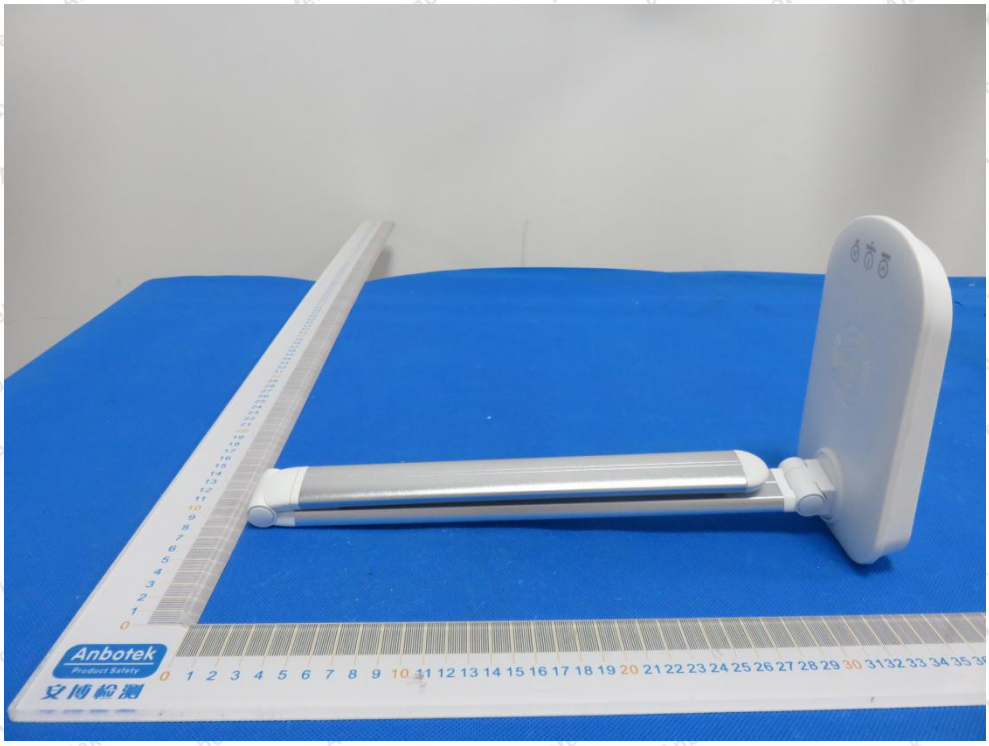
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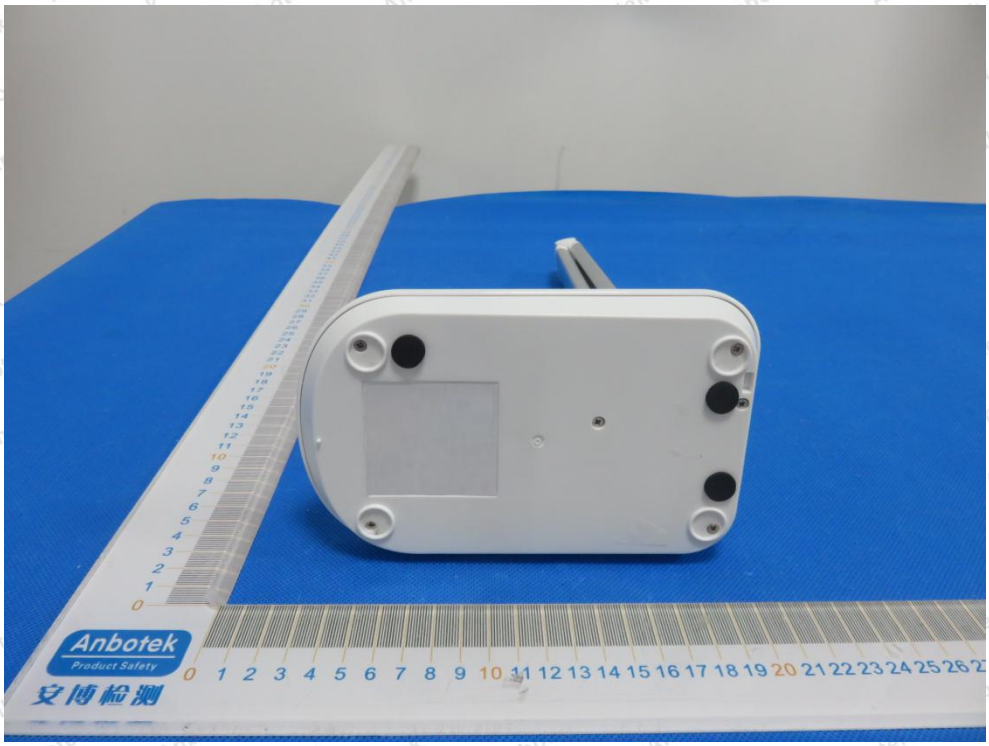
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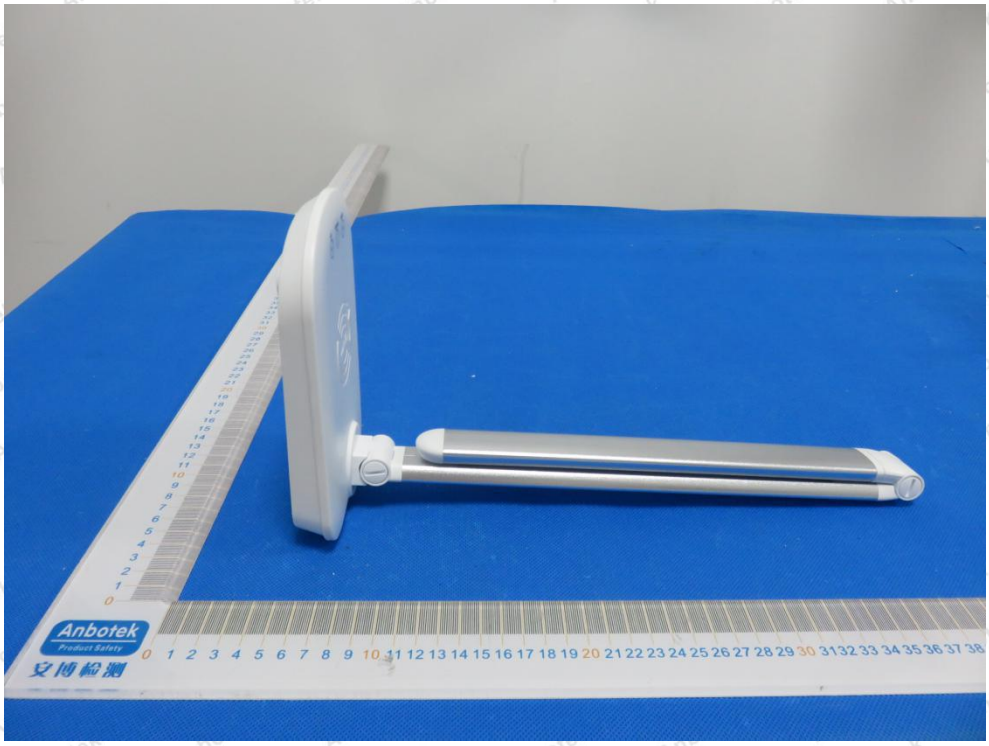
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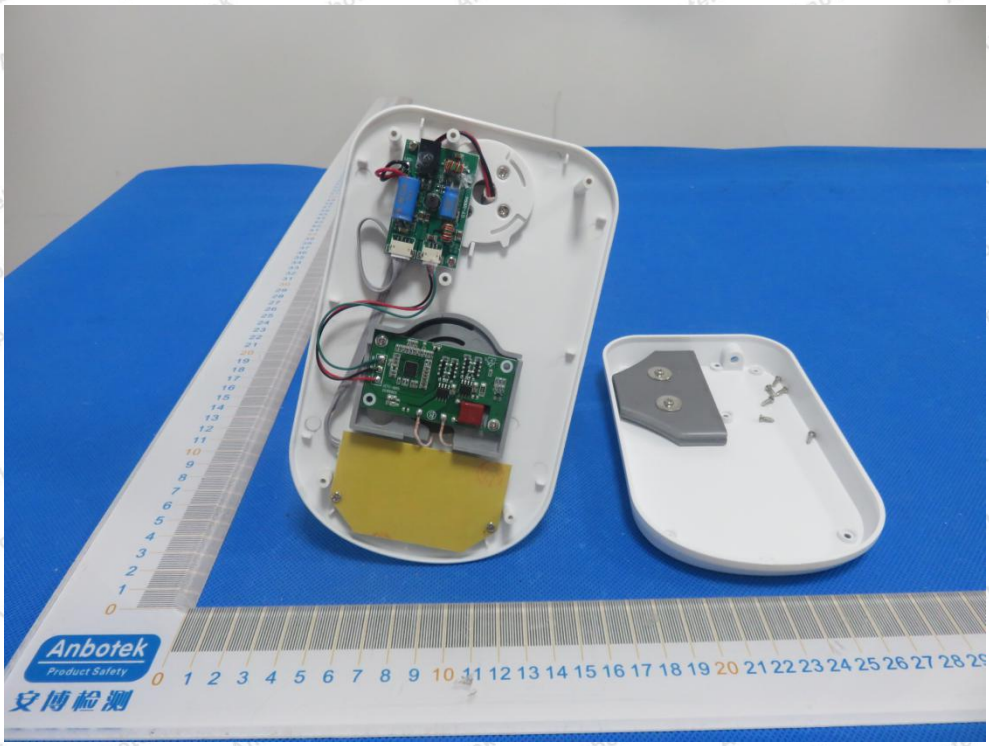
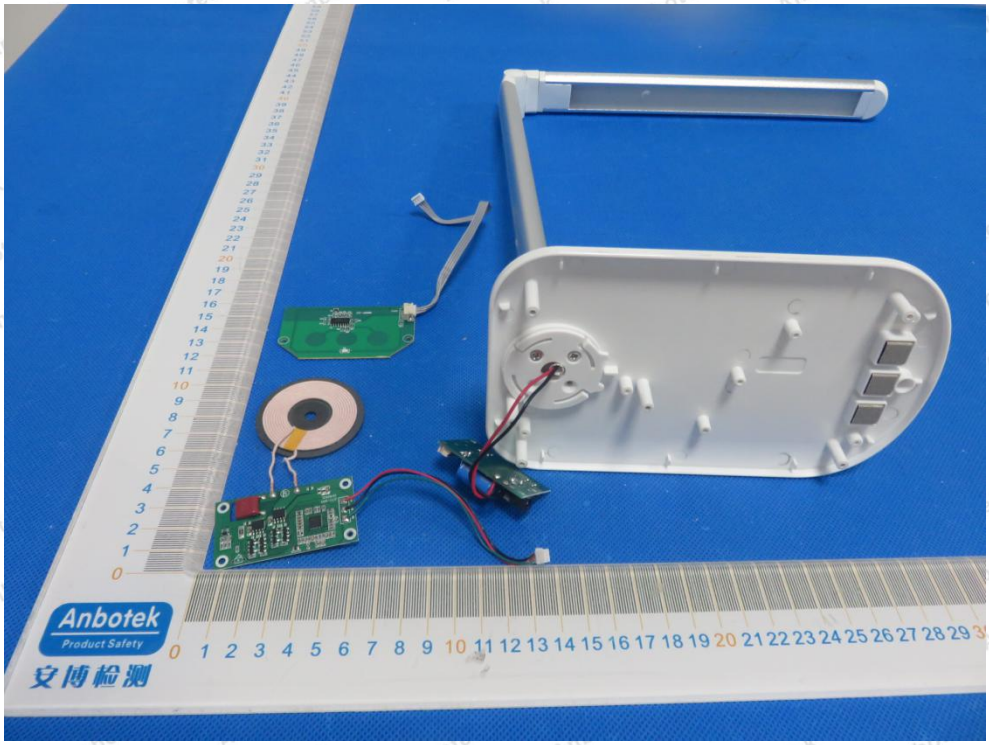
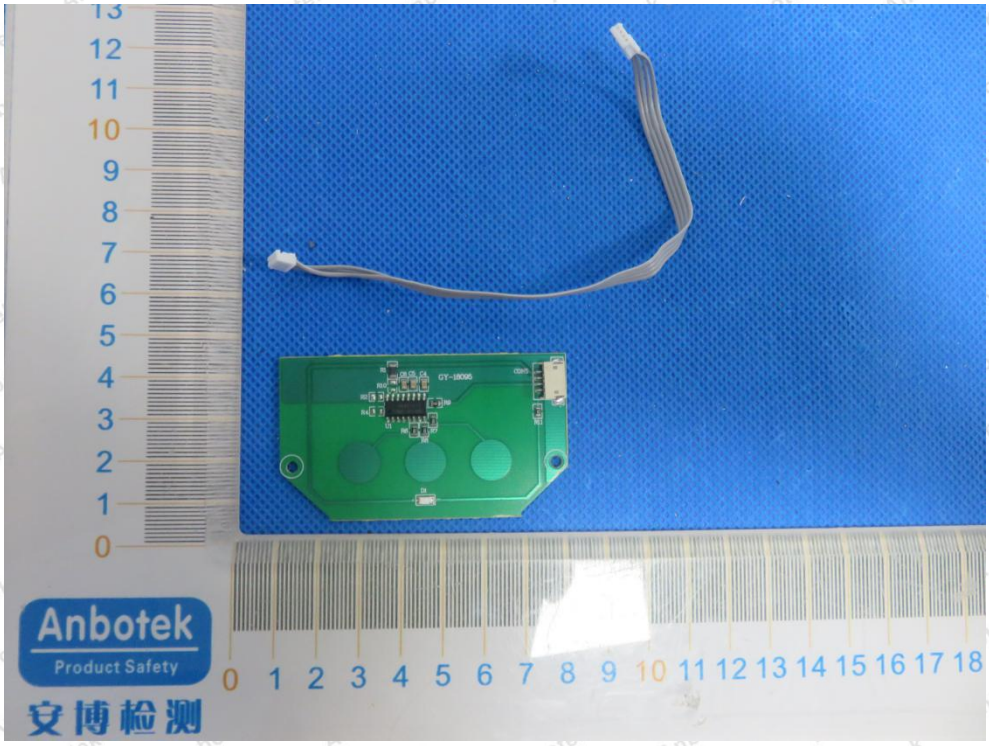
DC5V

APPENDIX III -- INTERNAL PHOTOGRAPH



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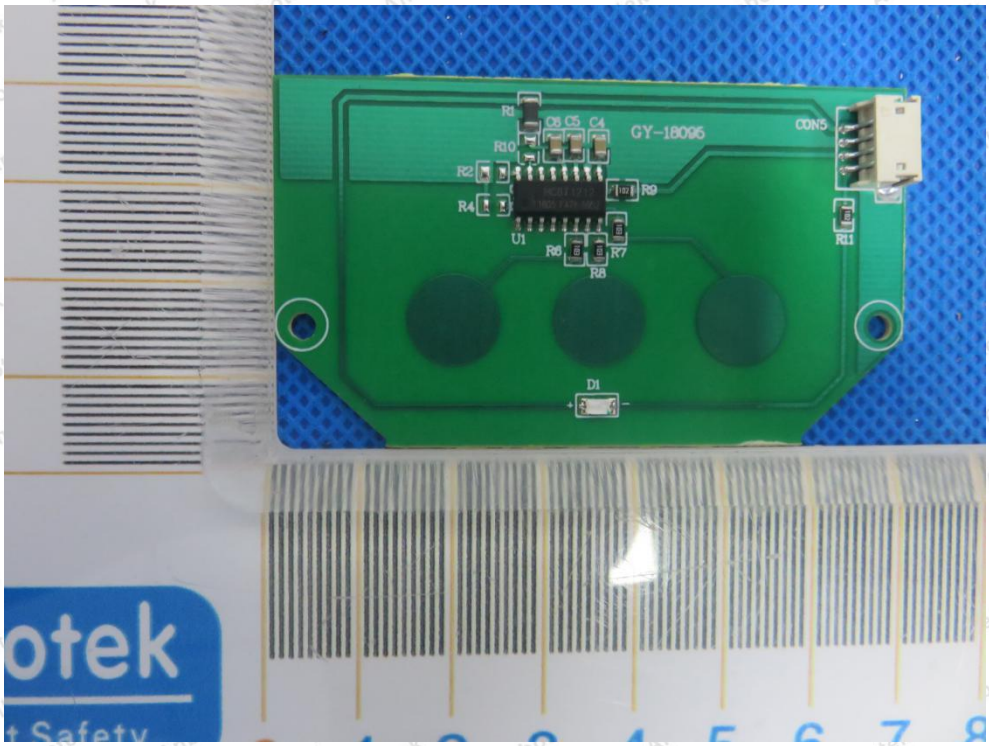
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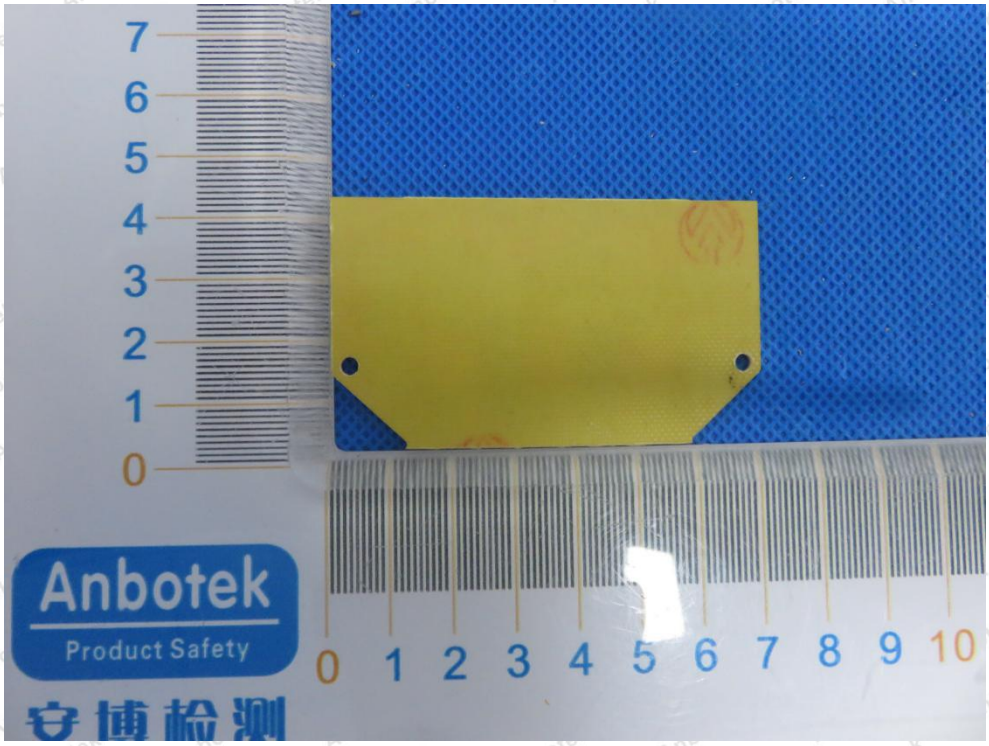
R7
R8
R11
D1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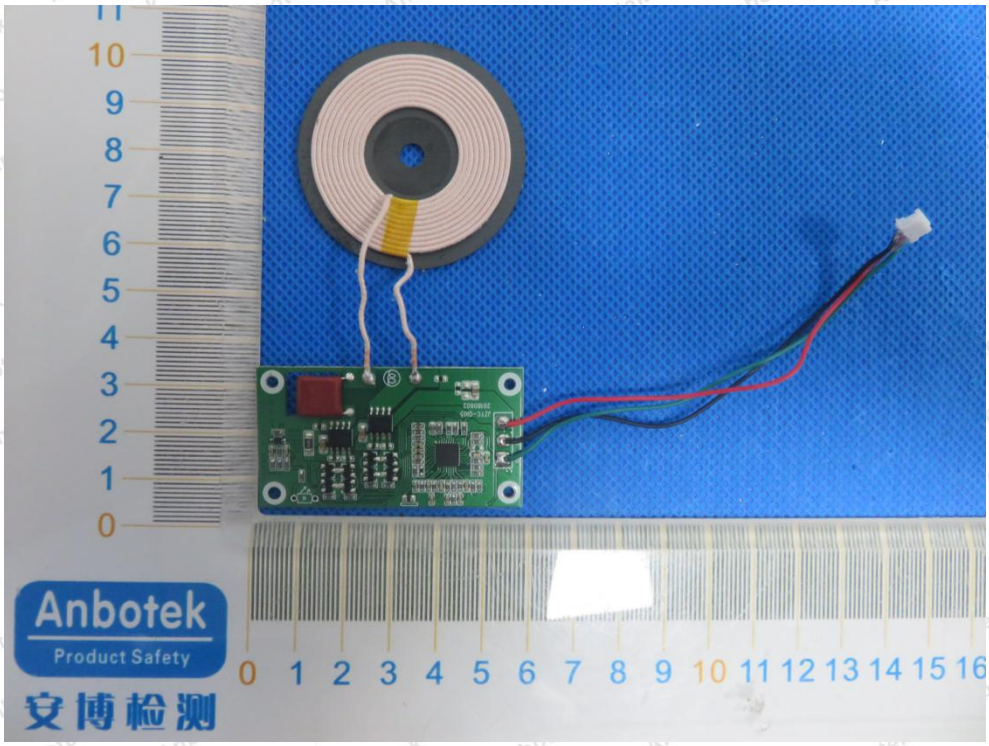
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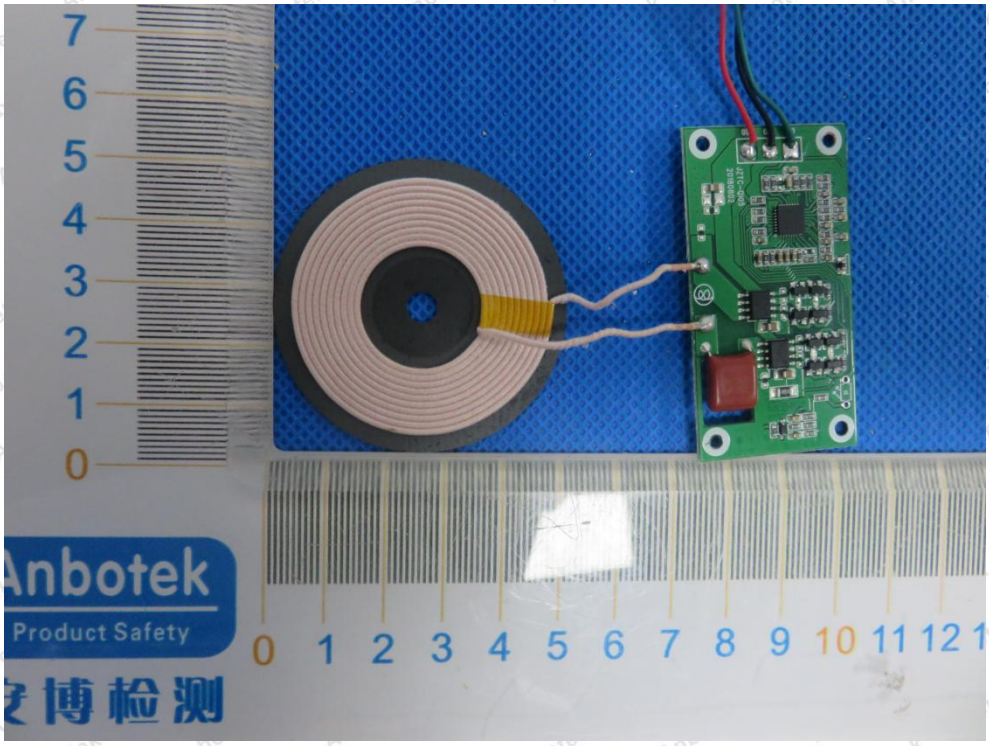
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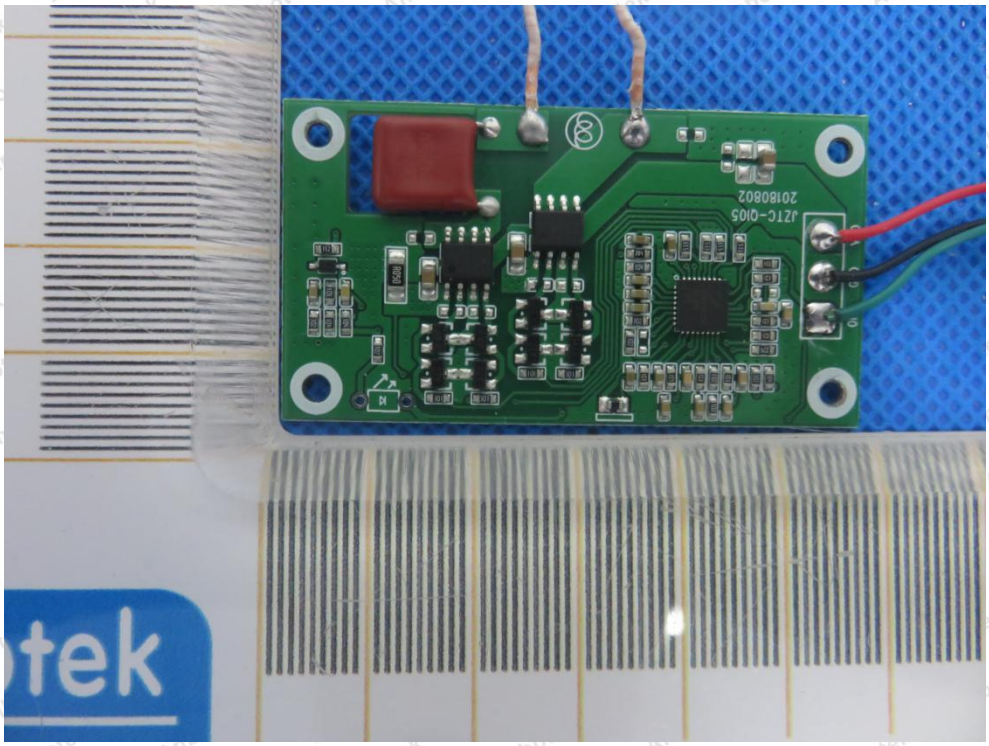

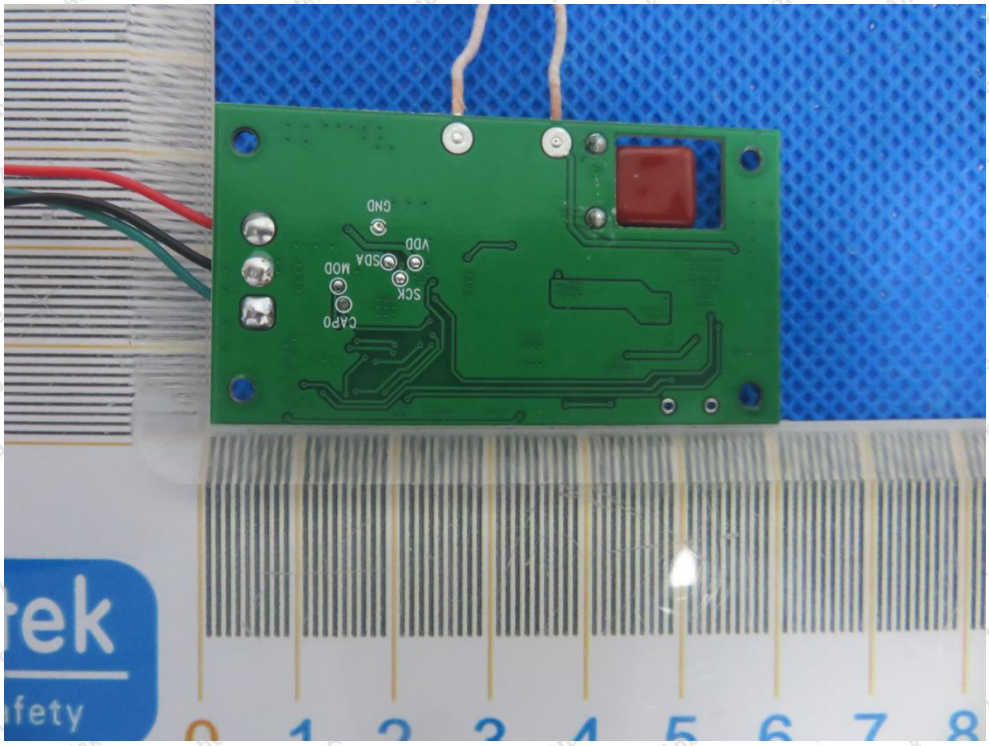
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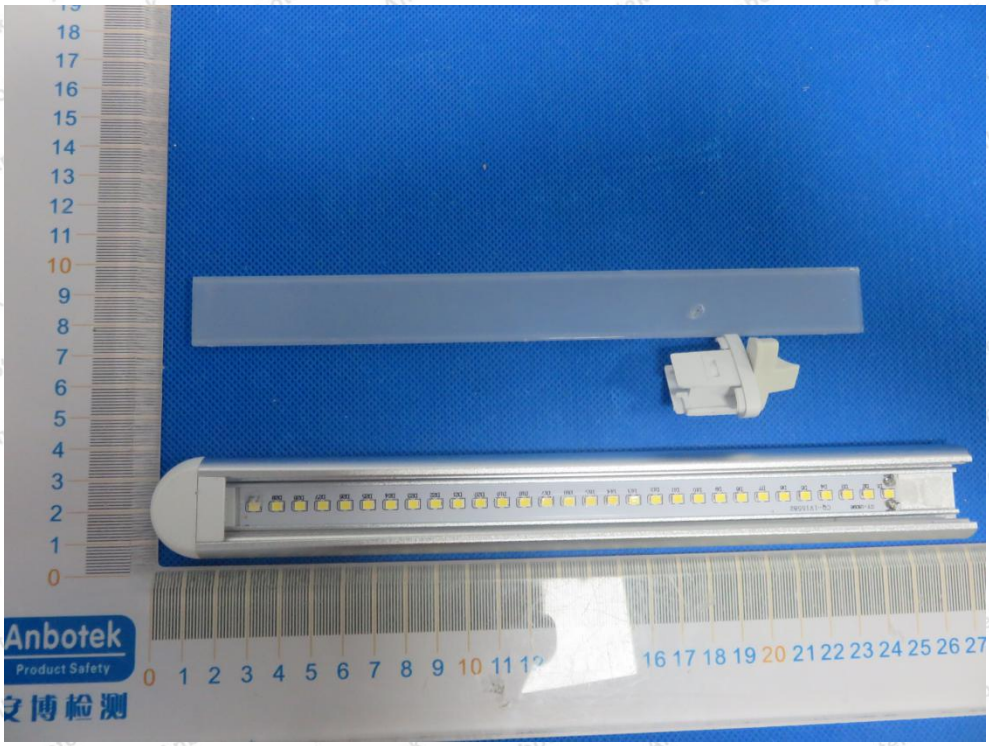
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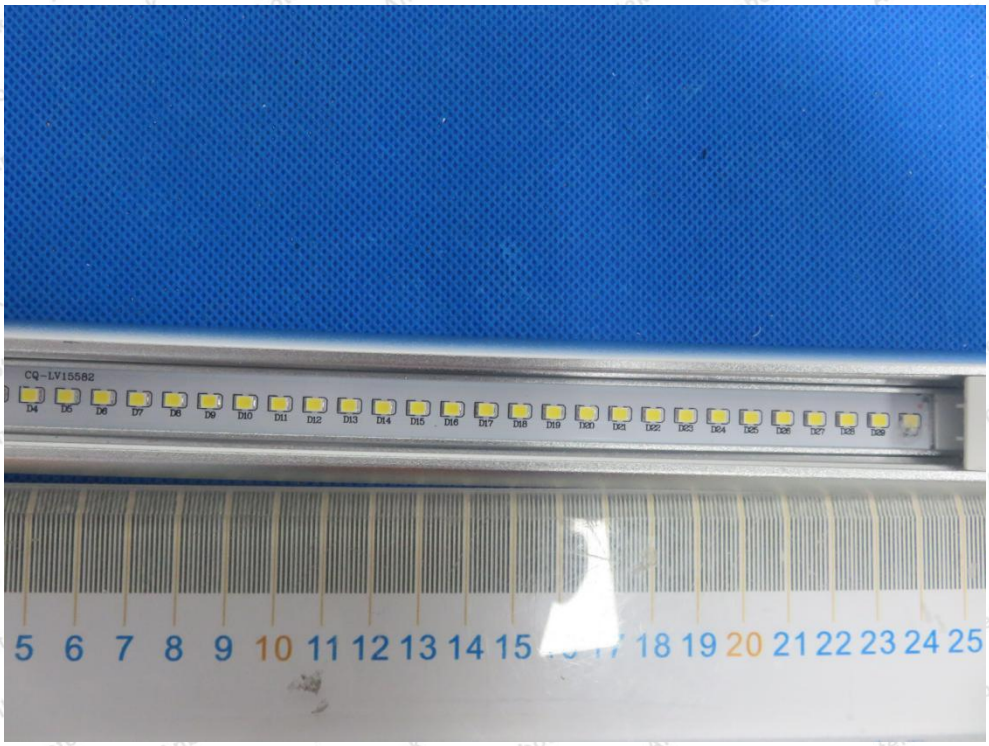
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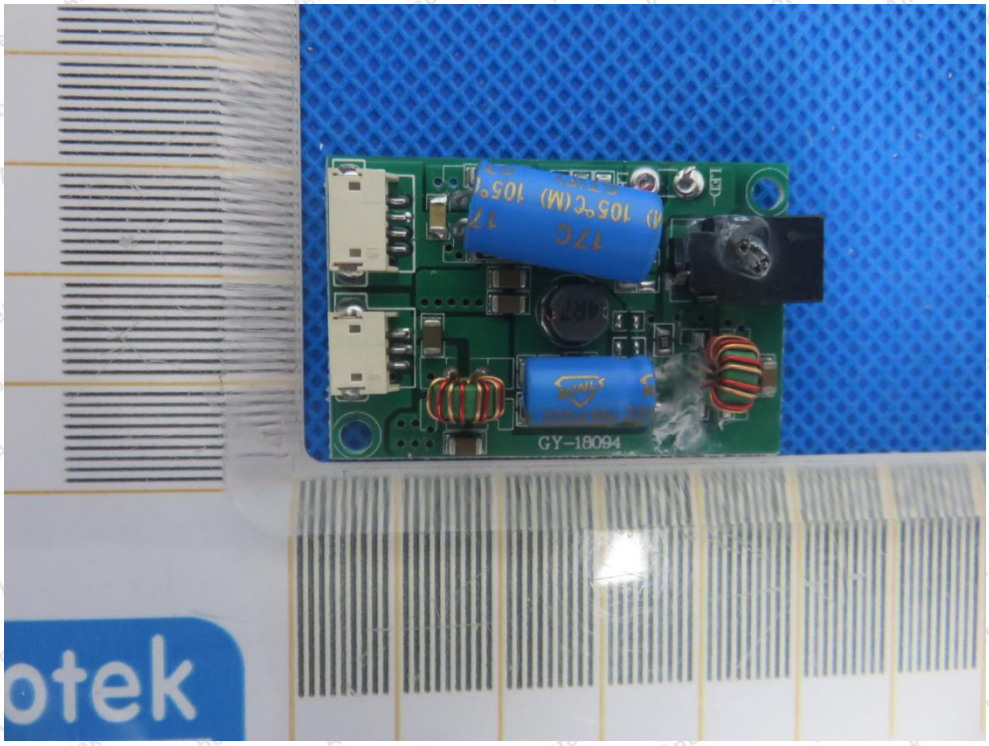

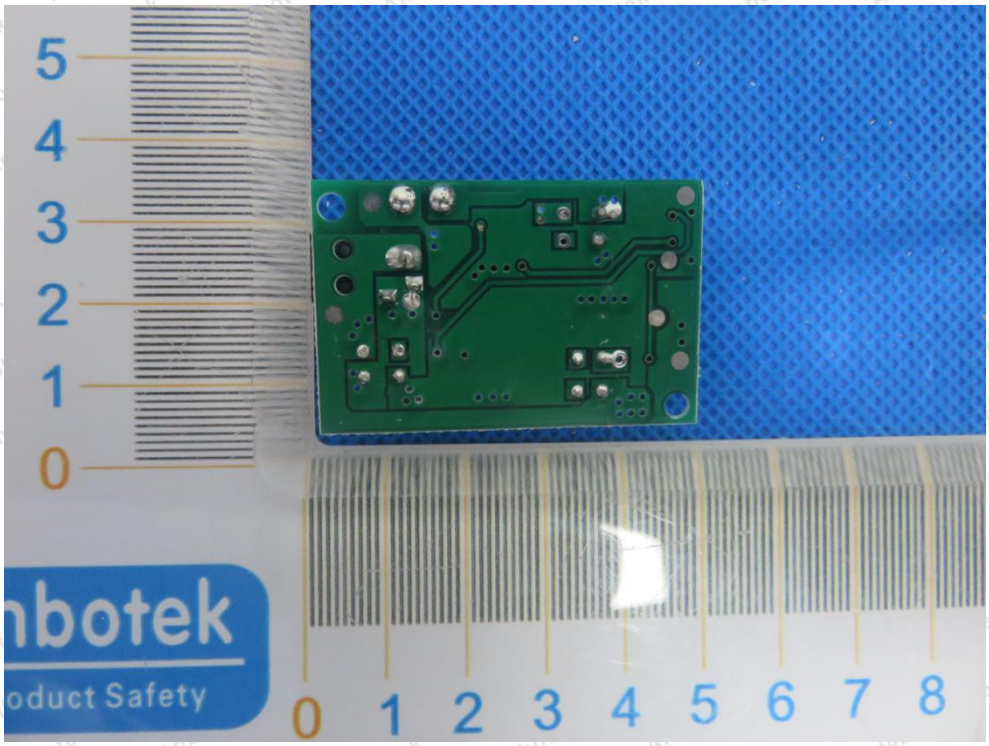

---------- End of Report ----------