

FCC TEST REPORT

Client Name : Dongguan Tyjin Electronics Co., Ltd.
Address : Shitouling Industrial Zone, Wulian Village, Fenggang
Town, Dongguan, China 523690
Product Name : Wireless Charging Pad
Date : Jun. 18, 2019

Shenzhen Anbotech Compliance Laboratory Limited

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TEST REPORT

Applicant : Dongguan Tyjin Electronics Co., Ltd.
Manufacturer : Dongguan Tyjin Electronics Co., Ltd.
Product Name : Wireless Charging Pad
Model No. : BRQ1000, C-098
Trade Mark : N.A.
Rating(s) : Input: DC 5V, 2A
Output: 5W

Test Standard(s) : FCC Part15 Subpart C 2018, Paragraph 15.209

Test Method(s) : ANSI C63.10: 2013

The device described above is tested by Shenzhen Anbotech 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 Anbotech 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 Anbotech Compliance Laboratory Limited.

Date of Receipt

May 06, 2019

Date of Test

May 06~Jun. 06, 2019

Prepared By



(Engineer / Oliay Yang)

Reviewer

(Supervisor / Snowy Meng)

Approved & Authorized Signer

(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China 523690
Manufacturer	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China 523690
Factory	:	Dongguan Tyjin Electronics Co., Ltd.
Address	:	Shitouling Industrial Zone, Wulian Village, Fenggang Town, Dongguan, China 523690

1.2. Description of Device (EUT)

Product Name	:	Wireless Charging Pad	
Model No.	:	(Note: All samples are the same except the model number, so we prepare "BRQI1000" for test only.)	
Trade Mark	:	N.A.	
Test Power Supply	:	AC 240V, 60Hz for adapter/ AC 120V, 60Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	110.1-205KHz
		Modulation Type:	ASK
		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: Samsung M/N: ETA-U90CBC S/N: RT6FB17ZS/B-E Input: 100-240V~ 50-60Hz, 0.35A Output: DC 5V, 2A
Mobile Phone	:	iPhone

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	Full load, wireless charger module

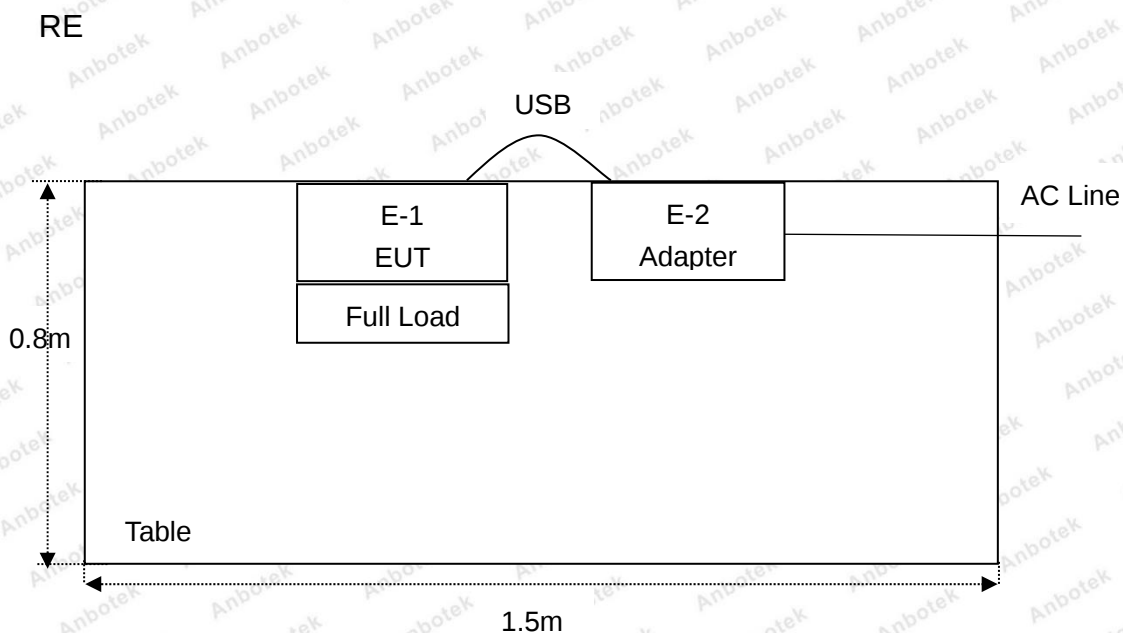
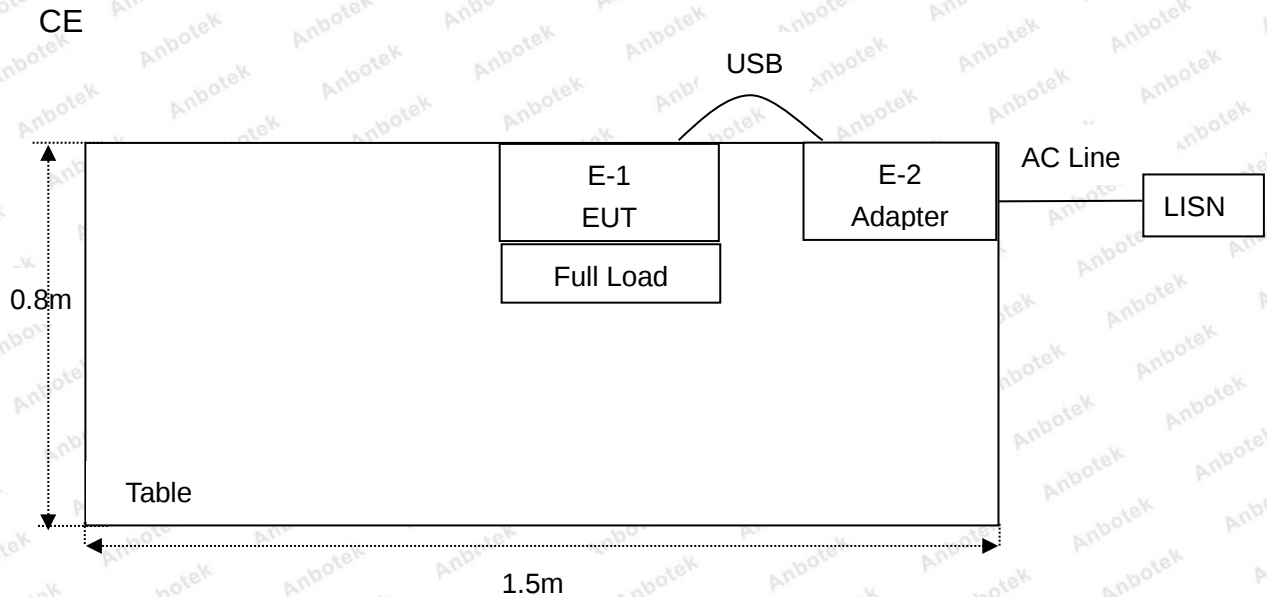
For Conducted Emission	
Final Test Mode	Description
Mode 1	Full load, wireless charger module

For Radiated Emission	
Final Test Mode	Description
Mode 1	Full load, wireless charger module

Note: (1)Test channel is 0.1250MHz.

(2)All the situation(full load, half load and empty load) has been tested,only the worst situation (full load) was recorded in the report.

1.5. Description Of Test Setup



1.6. 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. 26, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Nov. 05, 2018	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Nov. 20, 2018	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year
19.	DC Power Supply	LW	TPR-6420D	374470	Oct. 31, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Nov. 01, 2018	1 Year

1.7. Measurement Uncertainty

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

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotech 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, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotech 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

Shenzhen Anbotech Compliance Laboratory Limited.

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
Part 15.203	Antenna Requirement	PASS

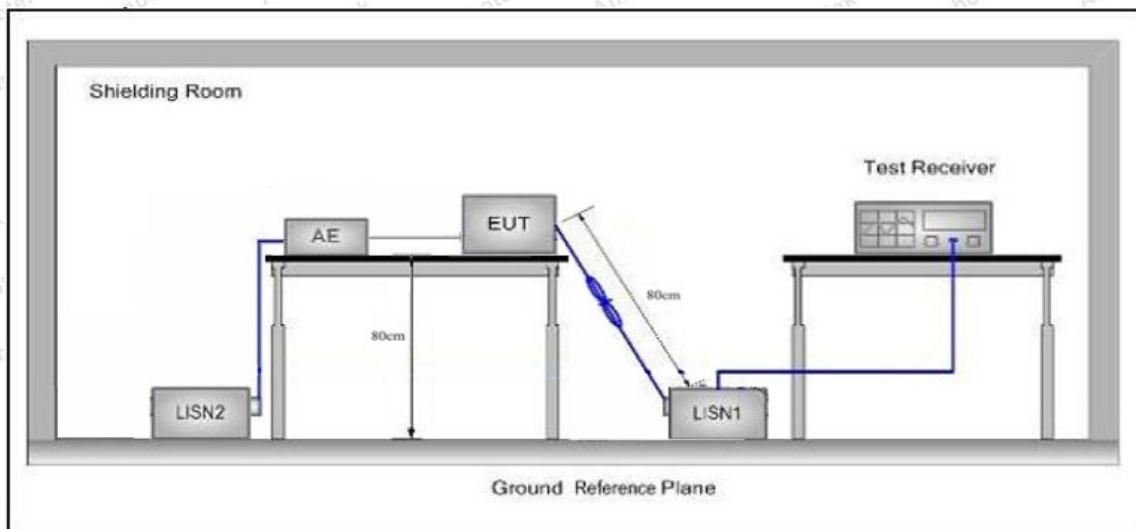
3. Conducted Emission Test

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.

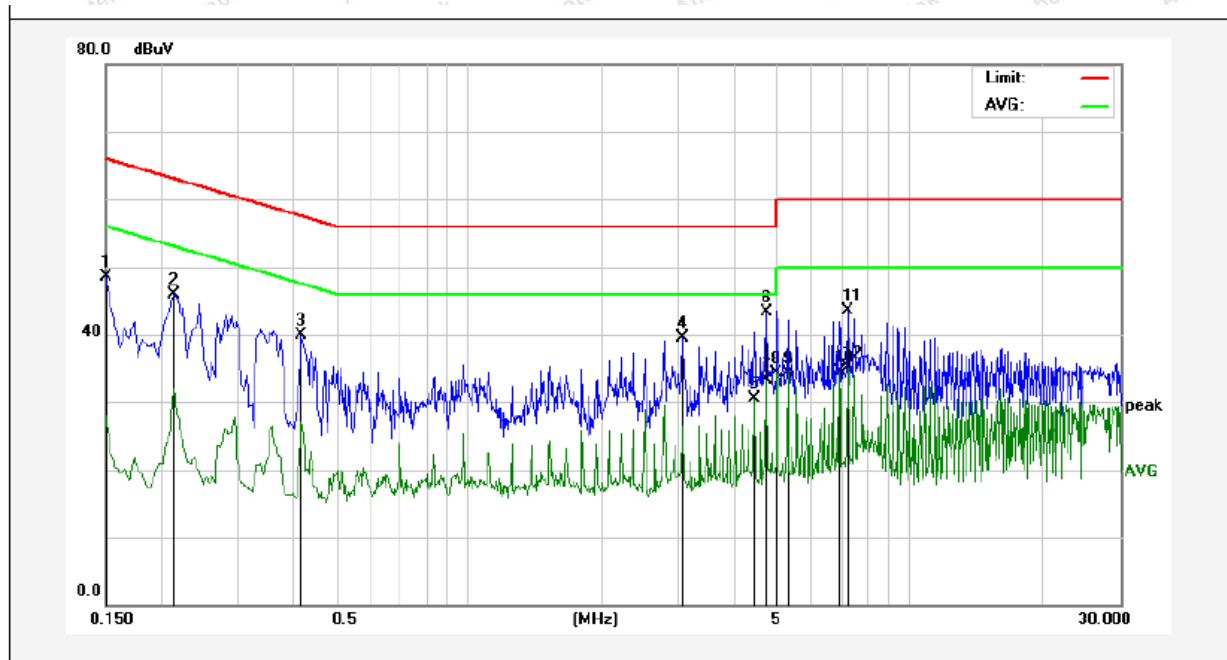
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

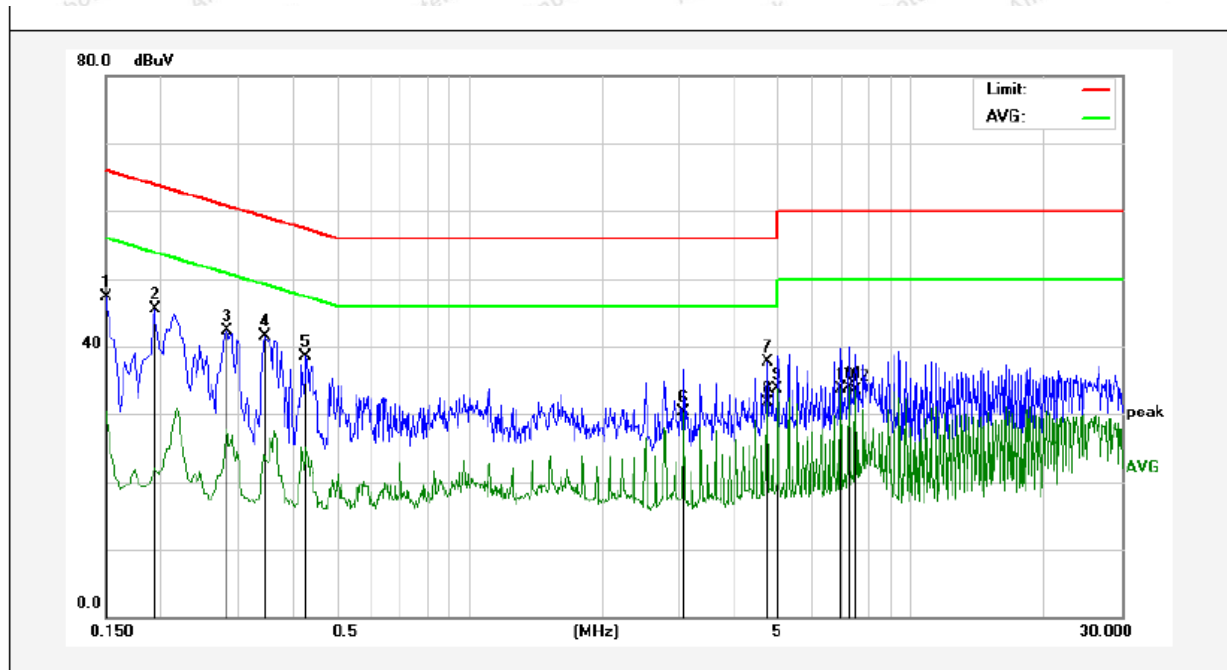
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	48.42	0.00	48.42	65.99	-17.57	QP	
2	0.2140	45.99	0.00	45.99	63.04	-17.05	QP	
3	0.4180	39.91	0.00	39.91	57.49	-17.58	QP	
4	3.0540	39.58	0.00	39.58	56.00	-16.42	QP	
5	4.4460	30.47	0.00	30.47	46.00	-15.53	AVG	
6	4.7260	43.22	0.00	43.22	56.00	-12.78	QP	
7	4.7260	33.22	0.00	33.22	46.00	-12.78	AVG	
8	5.0020	34.36	0.00	34.36	50.00	-15.64	AVG	
9	5.2819	34.32	0.00	34.32	50.00	-15.68	AVG	
10	6.9460	34.49	0.00	34.49	50.00	-15.51	AVG	
11	7.2260	43.42	0.00	43.42	60.00	-16.58	QP	
12	7.2260	35.19	0.00	35.19	50.00	-14.81	AVG	

Conducted Emission Test Data

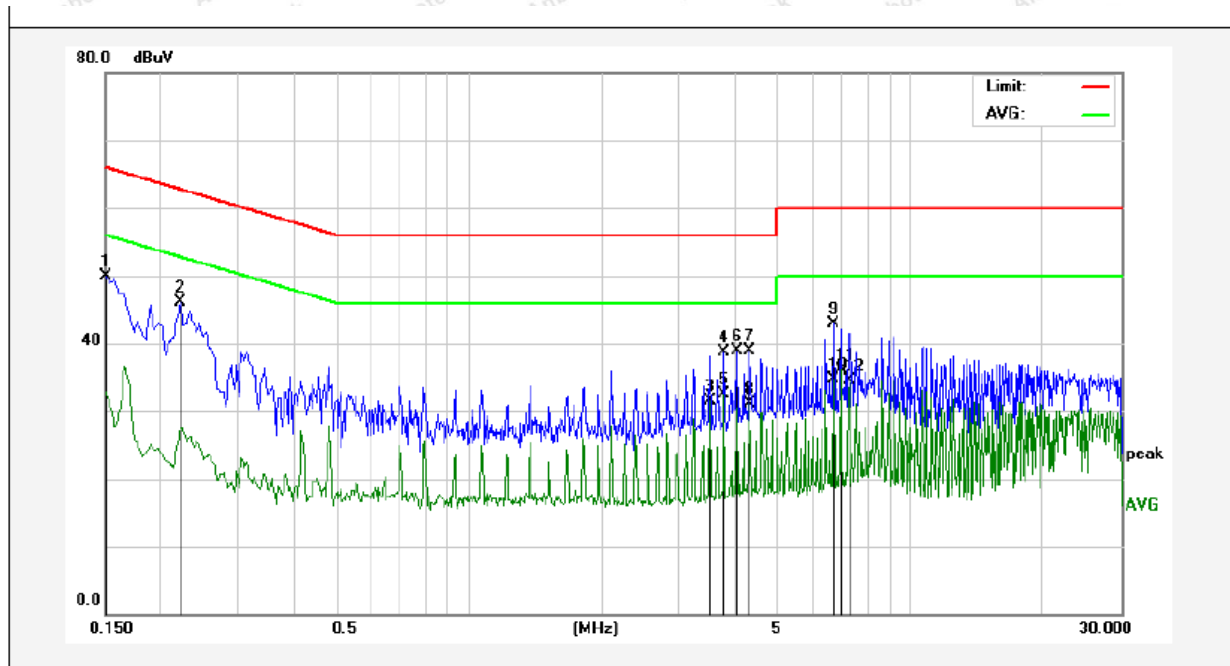
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	47.24	0.00	47.24	65.99	-18.75	QP	
2	0.1940	45.49	0.00	45.49	63.86	-18.37	QP	
3	0.2819	42.25	0.00	42.25	60.76	-18.51	QP	
4	0.3460	41.43	0.00	41.43	59.06	-17.63	QP	
5	0.4260	38.52	0.00	38.52	57.33	-18.81	QP	
6	3.0579	30.33	0.00	30.33	46.00	-15.67	AVG	
7	4.7260	37.71	0.00	37.71	56.00	-18.29	QP	
8	4.7260	31.64	0.00	31.64	46.00	-14.36	AVG	
9	5.0020	33.64	0.00	33.64	50.00	-16.36	AVG	
10	6.9460	33.70	0.00	33.70	50.00	-16.30	AVG	
11	7.2220	33.82	0.00	33.82	50.00	-16.18	AVG	
12	7.5020	33.44	0.00	33.44	50.00	-16.56	AVG	

Conducted Emission Test Data

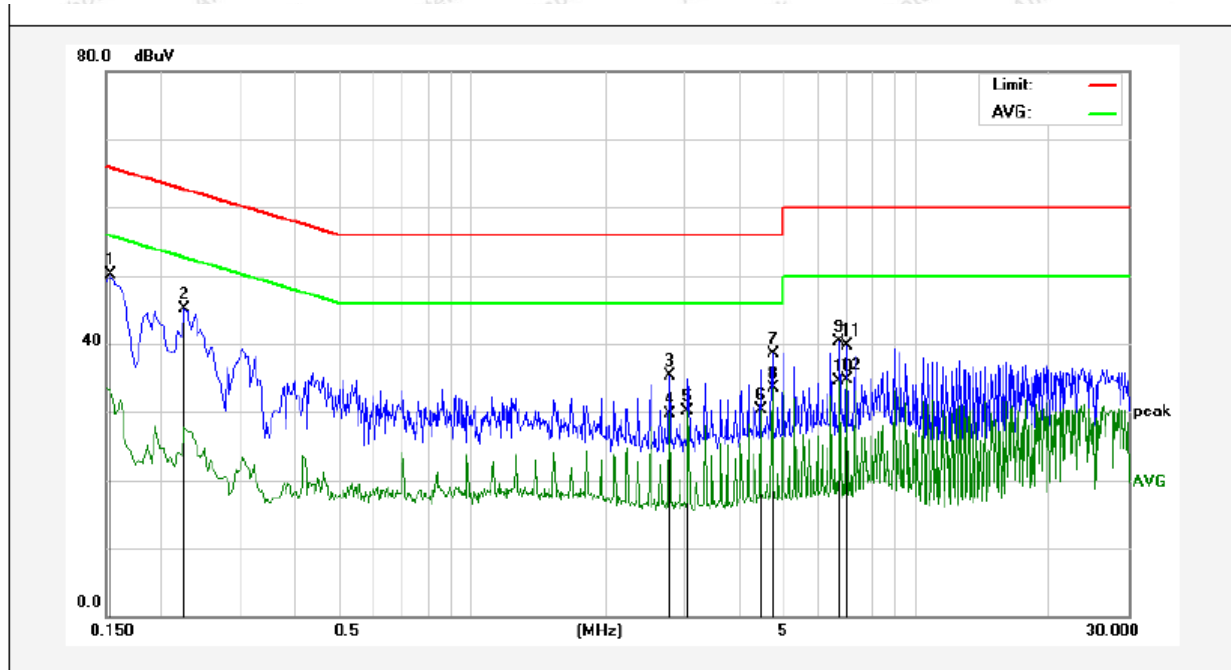
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	49.91	0.00	49.91	65.99	-16.08	QP	
2	0.2220	46.19	0.00	46.19	62.74	-16.55	QP	
3	3.5140	31.50	0.00	31.50	46.00	-14.50	AVG	
4	3.7860	38.77	0.00	38.77	56.00	-17.23	QP	
5	3.7860	32.53	0.00	32.53	46.00	-13.47	AVG	
6	4.0620	38.92	0.00	38.92	56.00	-17.08	QP	
7	4.3300	38.85	0.00	38.85	56.00	-17.15	QP	
8	4.3300	31.20	0.00	31.20	46.00	-14.80	AVG	
9	6.6940	42.98	0.00	42.98	60.00	-17.02	QP	
10	6.6940	34.74	0.00	34.74	50.00	-15.26	AVG	
11	6.9740	36.07	0.00	36.07	50.00	-13.93	AVG	
12	7.2540	34.56	0.00	34.56	50.00	-15.44	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 21.7°C Hum.: 54%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1539	50.05	0.00	50.05	65.78	-15.73	QP	
2	0.2260	45.02	0.00	45.02	62.59	-17.57	QP	
3	2.7900	35.23	0.00	35.23	56.00	-20.77	QP	
4	2.7900	29.61	0.00	29.61	46.00	-16.39	AVG	
5	3.0700	30.18	0.00	30.18	46.00	-15.82	AVG	
6	4.4660	30.28	0.00	30.28	46.00	-15.72	AVG	
7	4.7500	38.51	0.00	38.51	56.00	-17.49	QP	
8	4.7500	33.59	0.00	33.59	46.00	-12.41	AVG	
9	6.7180	40.30	0.00	40.30	60.00	-19.70	QP	
10	6.7180	34.59	0.00	34.59	50.00	-15.41	AVG	
11	6.9860	39.61	0.00	39.61	60.00	-20.39	QP	
12	6.9860	34.75	0.00	34.75	50.00	-15.25	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

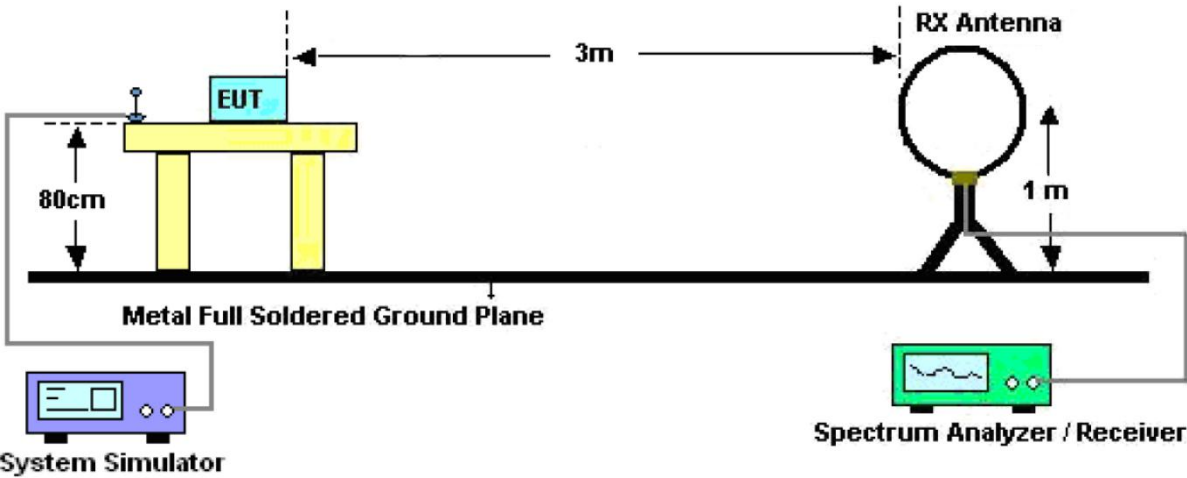


Figure 1. Below 30MHz

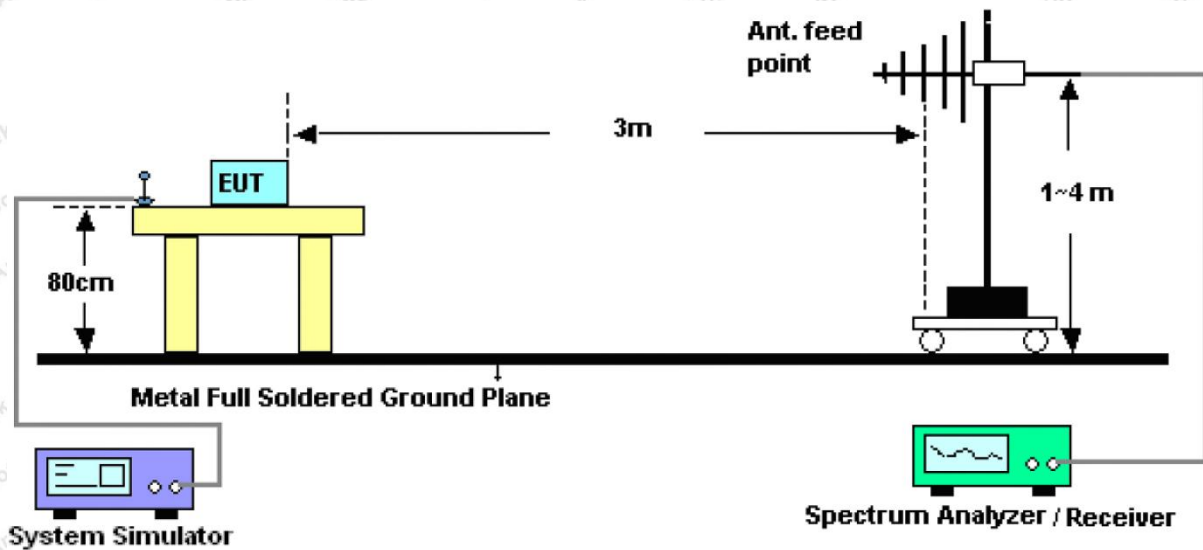


Figure 2. 30MHz to 1GHz

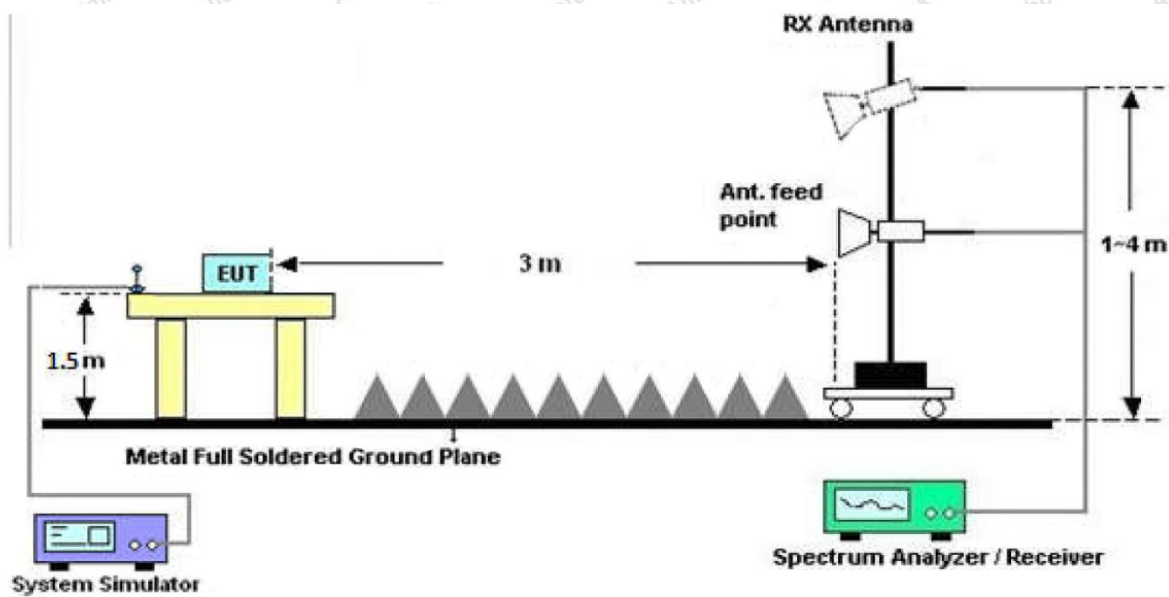


Figure 3. Above 1 GHz

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

Note: The data is in TX mode, and this is the worst mode.

Test Results

(Between 9KHz – 30MHz)

Job No.: SZAWW190506005-01

Standard: FCC PART15 C_3m

Power Source:

AC 120V, 60Hz for adapter

Test item: Radiation Test

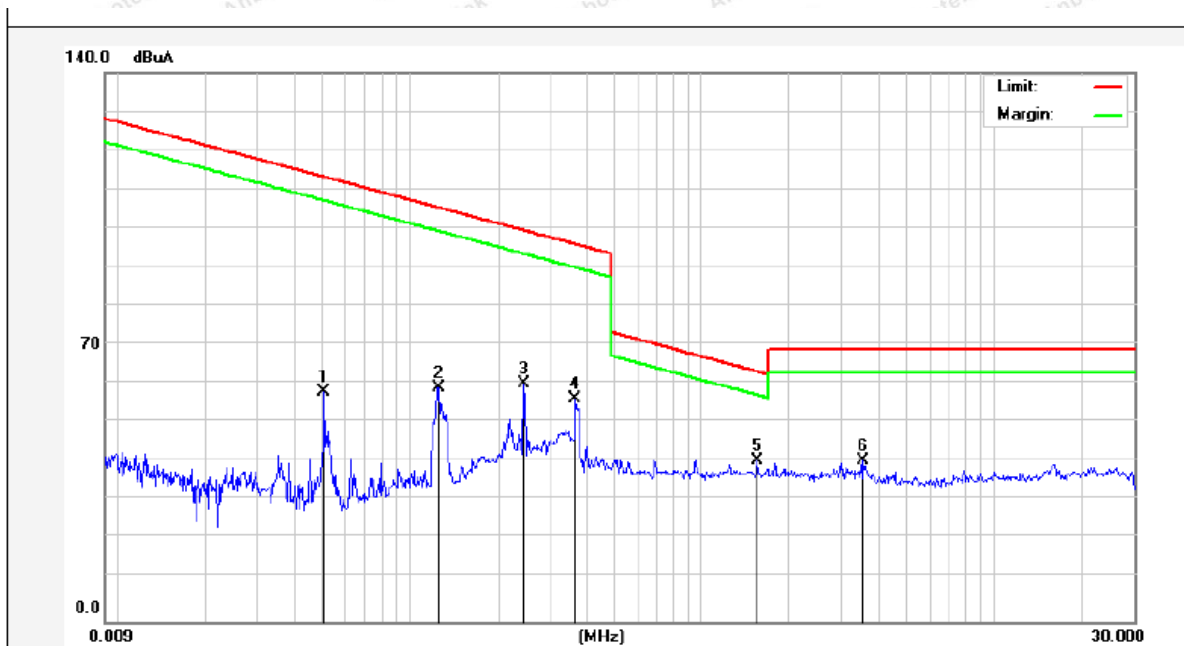
Temp.(C)/Hum.(%RH):

21.7℃/54%RH

Test Mode: Mode 1

Distance:

3m



Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0509	45.70	19.28	2.53	0	67.51	133.36	-65.85	Peak	328
0.0509	36.91	19.28	2.53	0	58.72	113.36	-54.64	AV	328
0.1250	45.99	19.30	2.54	0	67.83	125.60	-57.77	Peak	81
0.1250	37.73	19.30	2.54	0	59.57	105.60	-46.03	AV	81
0.2459	47.91	19.30	2.54	0	69.75	119.75	-50.00	Peak	152
0.2459	38.72	19.30	2.54	0	60.56	99.75	-39.19	AV	152
0.3664	43.61	19.53	2.59	0	65.73	116.31	-50.58	Peak	262
0.3664	34.79	19.53	2.59	0	56.91	96.31	-39.40	AV	262
1.5420	18.96	19.53	2.59	0	41.08	63.84	-22.76	QP	194
3.5659	19.07	19.53	2.59	0	41.19	69.54	-28.35	QP	237

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.: SZAWW190506005-01

Polarization: Horizontal

Standard: FCC PART15 C_3m

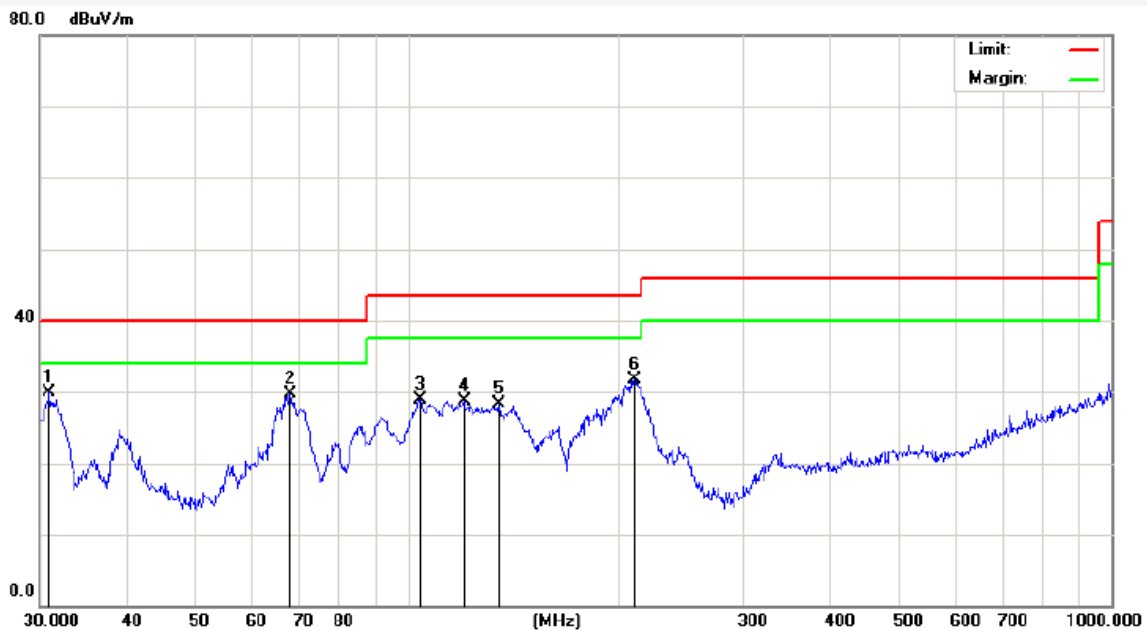
Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test

Temp.(C)/Hum.(%RH): 21.5°C/54%RH

Test Mode: Mode 1

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.9619	48.15	-18.27	29.88	40.00	-10.12	QP	300	0	
2	68.1514	50.90	-21.10	29.80	40.00	-10.20	QP	300	54	
3	104.1701	50.58	-21.70	28.88	43.50	-14.62	QP	300	211	
4	120.2766	51.07	-22.34	28.73	43.50	-14.77	QP	300	242	
5	135.0319	50.94	-22.60	28.34	43.50	-15.16	QP	300	263	
6	210.0482	51.76	-20.10	31.66	43.50	-11.84	QP	300	360	



Job No.: SZAWW190506005-01

Polarization: Vertical

Standard: FCC PART15 C_3m

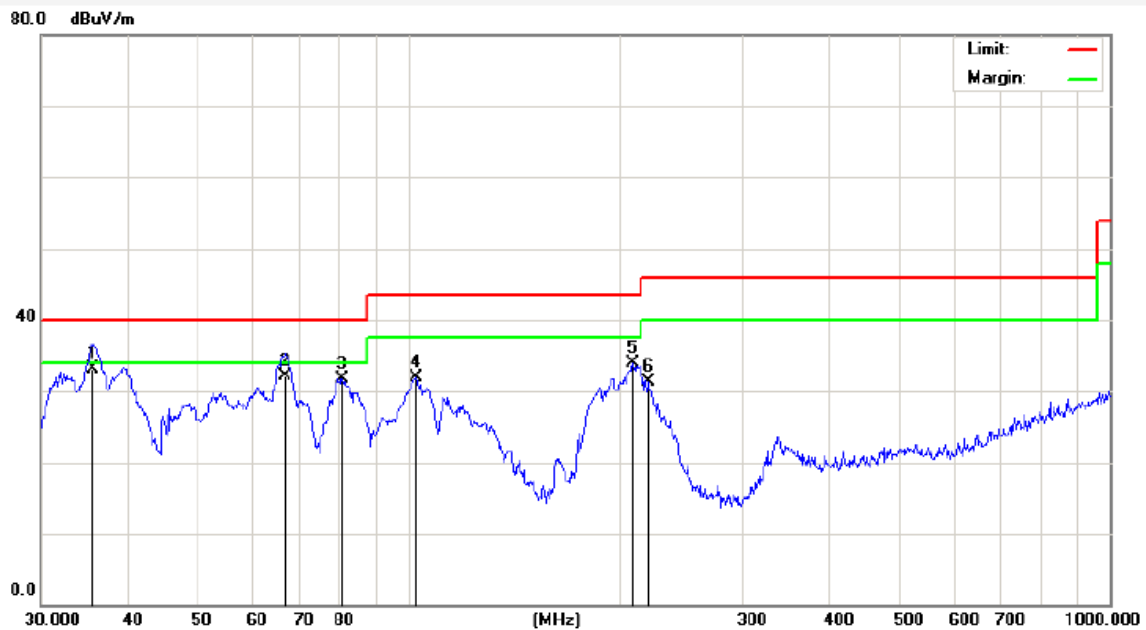
Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test

Temp.(C)/Hum.(%RH): 21.5°C/54%RH

Test Mode: Mode 1

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.6240	48.90	-15.76	33.14	40.00	-6.86	QP	300	0	
2	66.9669	51.79	-19.64	32.15	40.00	-7.85	QP	300	54	
3	80.6442	52.31	-20.54	31.77	40.00	-8.23	QP	300	242	
4	102.7192	47.63	-15.73	31.90	43.50	-11.60	QP	300	300	
5	209.3129	49.49	-15.61	33.88	43.50	-9.62	QP	300	309	
6	219.8449	46.54	-15.32	31.22	46.00	-14.78	QP	300	360	



Job No.: SZAWW190506005-01

Polarization: Horizontal

Standard: FCC PART15 C_3m

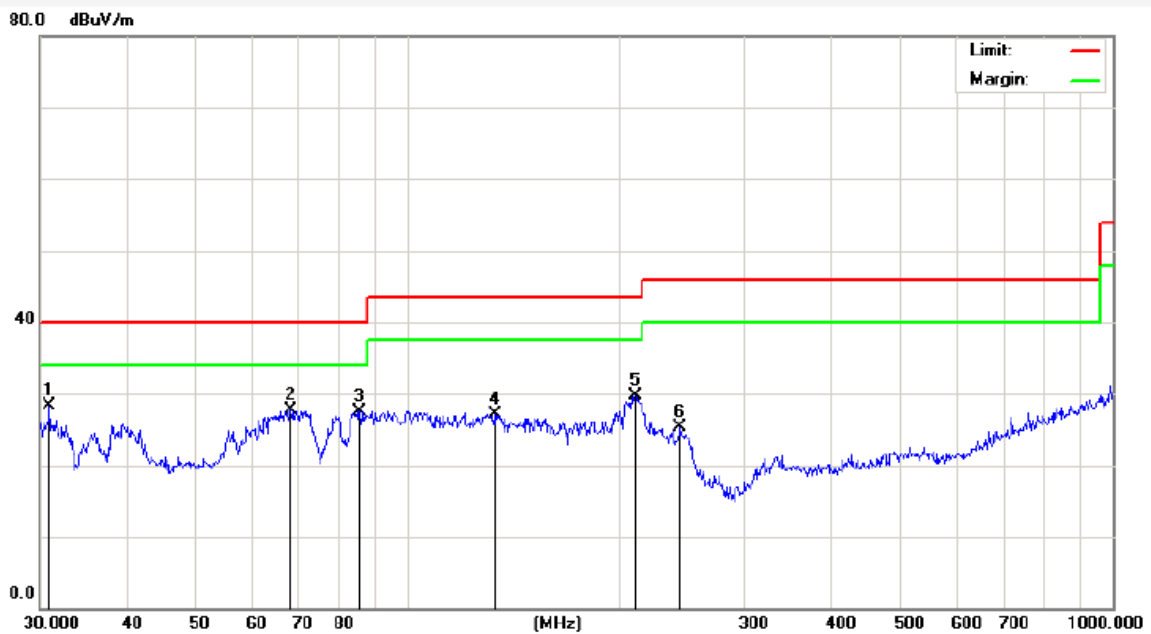
Power Source: AC 240V, 60Hz for adapter

Test item: Radiation Test

Temp.(C)/Hum.(%RH): 21.5°C/54%RH

Test Mode: Mode 1

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.9618	46.65	-18.27	28.38	40.00	-11.62	QP	300	58	
2	68.1512	48.90	-21.10	27.80	40.00	-12.20	QP	300	162	
3	85.2980	49.67	-22.07	27.60	40.00	-12.40	QP	300	341	
4	132.6850	49.74	-22.66	27.08	43.50	-16.42	QP	300	95	
5	210.0482	49.76	-20.10	29.66	43.50	-13.84	QP	300	292	
6	243.3771	43.98	-18.68	25.30	46.00	-20.70	QP	300	237	



Job No.: SZAWW190506005-01

Polarization: Vertical

Standard: FCC PART15 C_3m

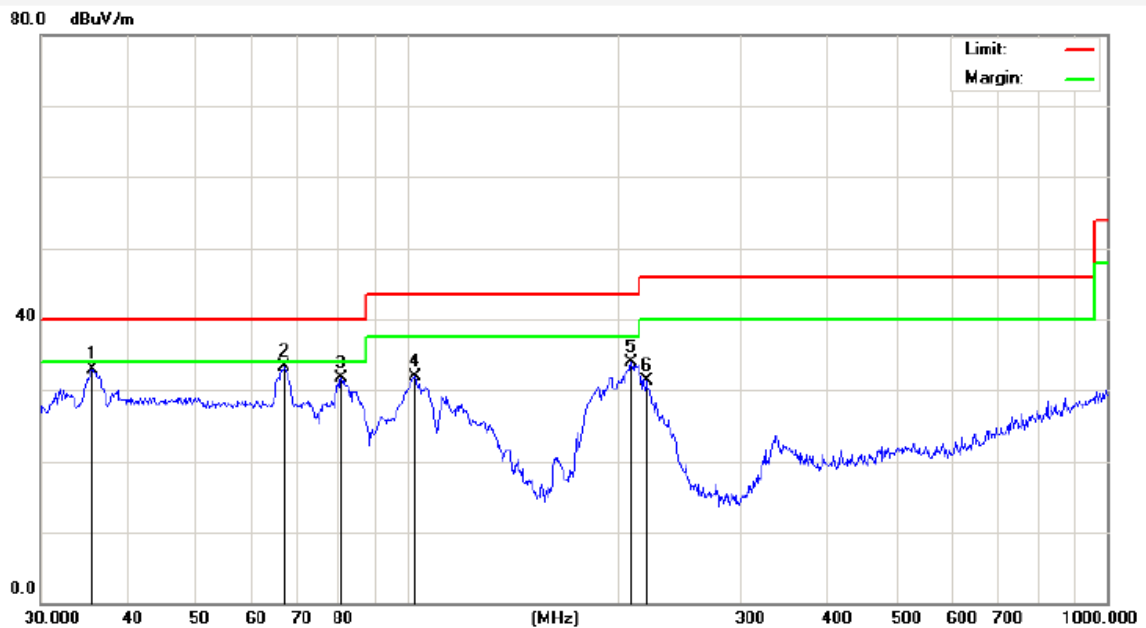
Power Source: AC 240V, 60Hz for adapter

Test item: Radiation Test

Temp.(C)/Hum.(%RH): 21.5°C/54%RH

Test Mode: Mode 1

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	35.6240	48.72	-15.76	32.96	40.00	-7.04	QP	300	55	
2	66.9668	52.98	-19.64	33.34	40.00	-6.66	QP	300	255	
3	80.6440	52.31	-20.54	31.77	40.00	-8.23	QP	300	255	
4	102.7192	47.63	-15.73	31.90	43.50	-11.60	QP	300	322	
5	209.3129	49.49	-15.61	33.88	43.50	-9.62	QP	300	355	
6	219.8447	46.54	-15.32	31.22	46.00	-14.78	QP	300	360	

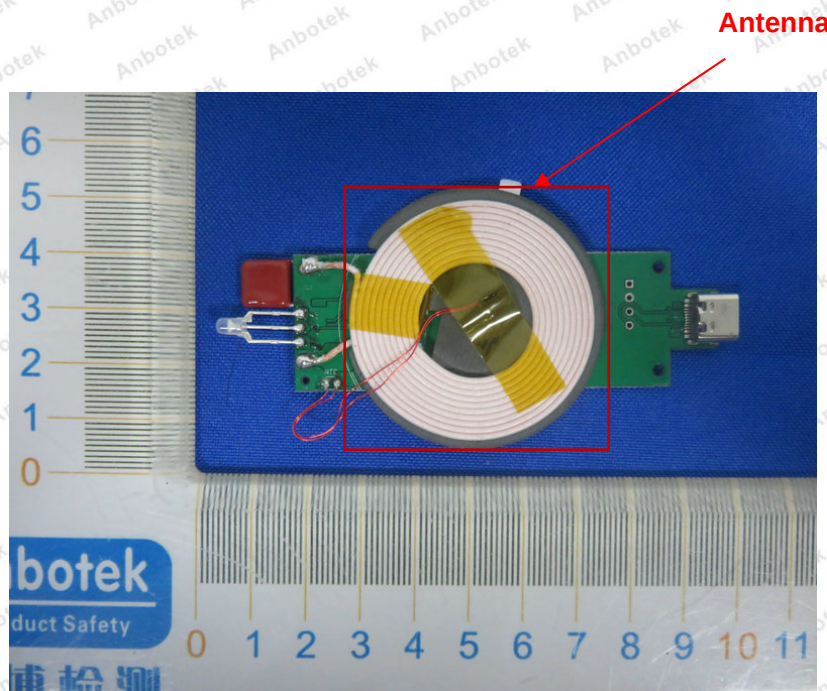
5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

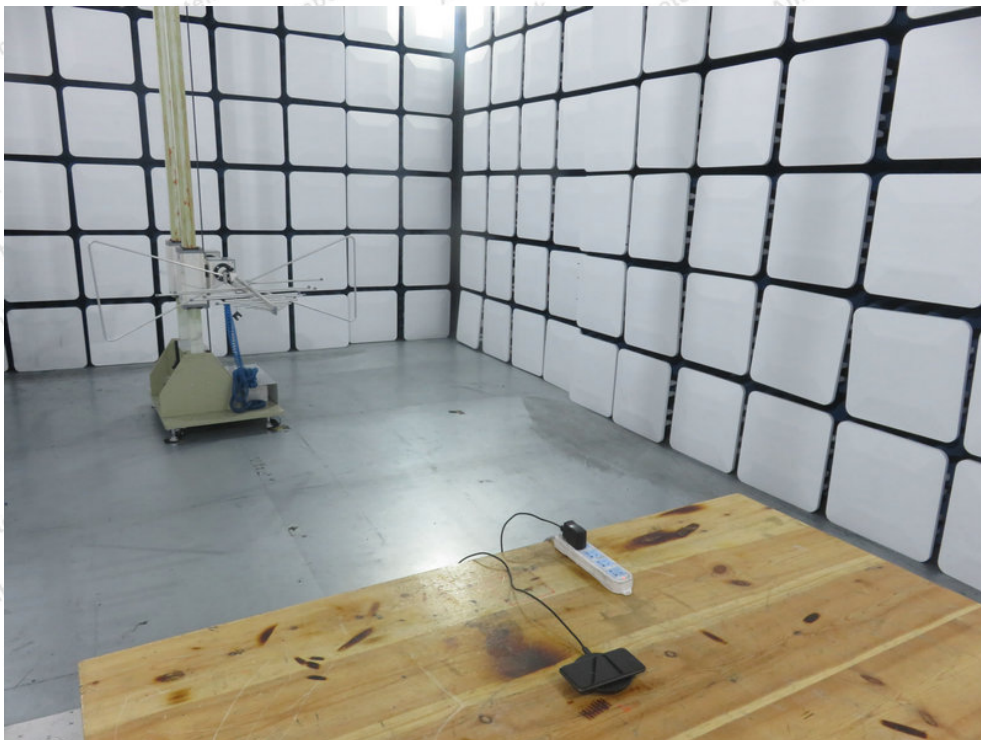


APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

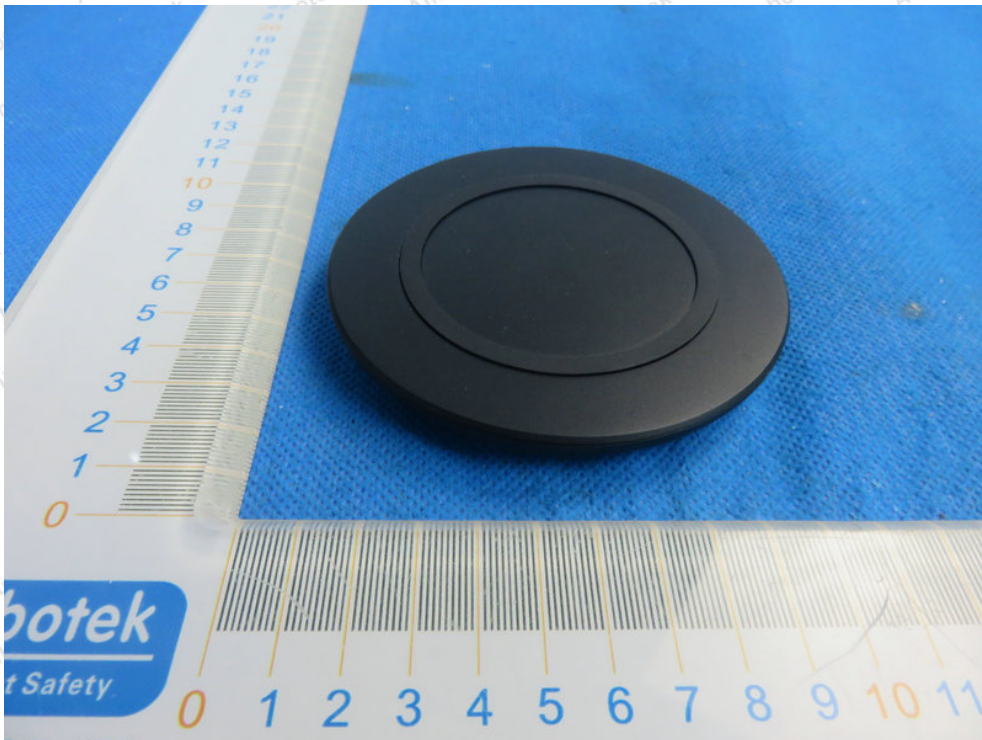
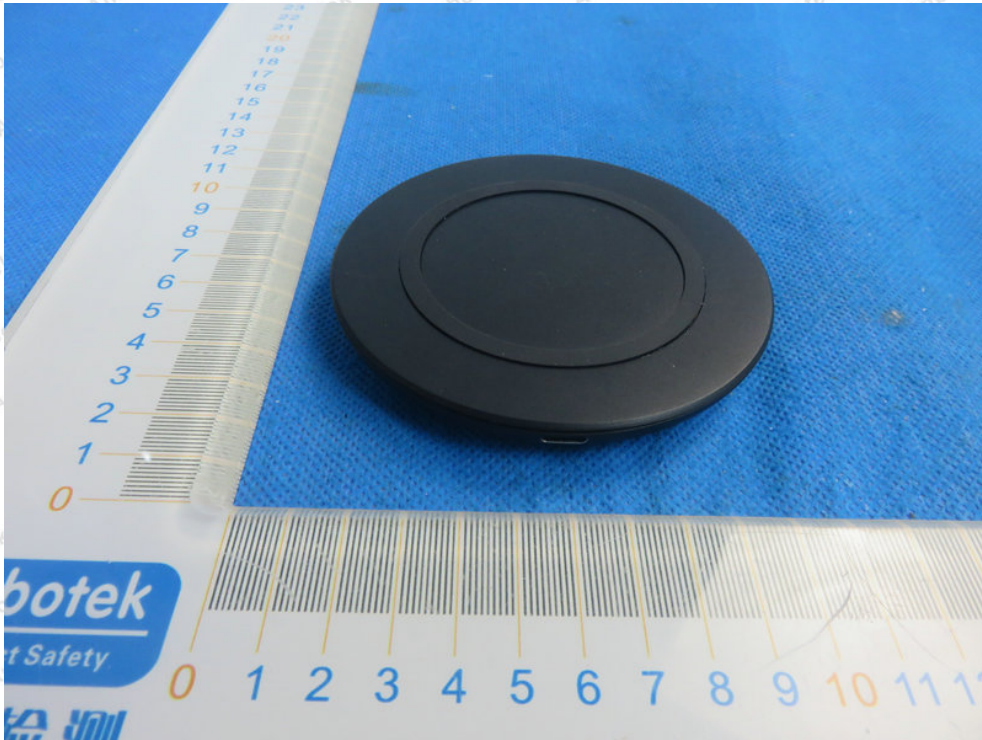


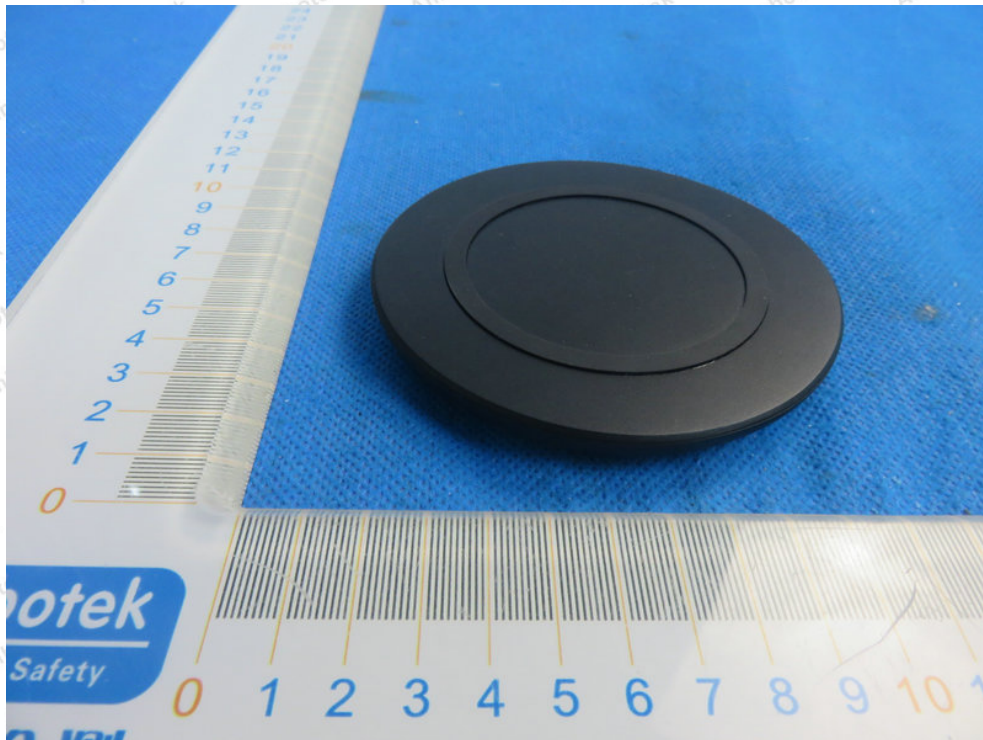
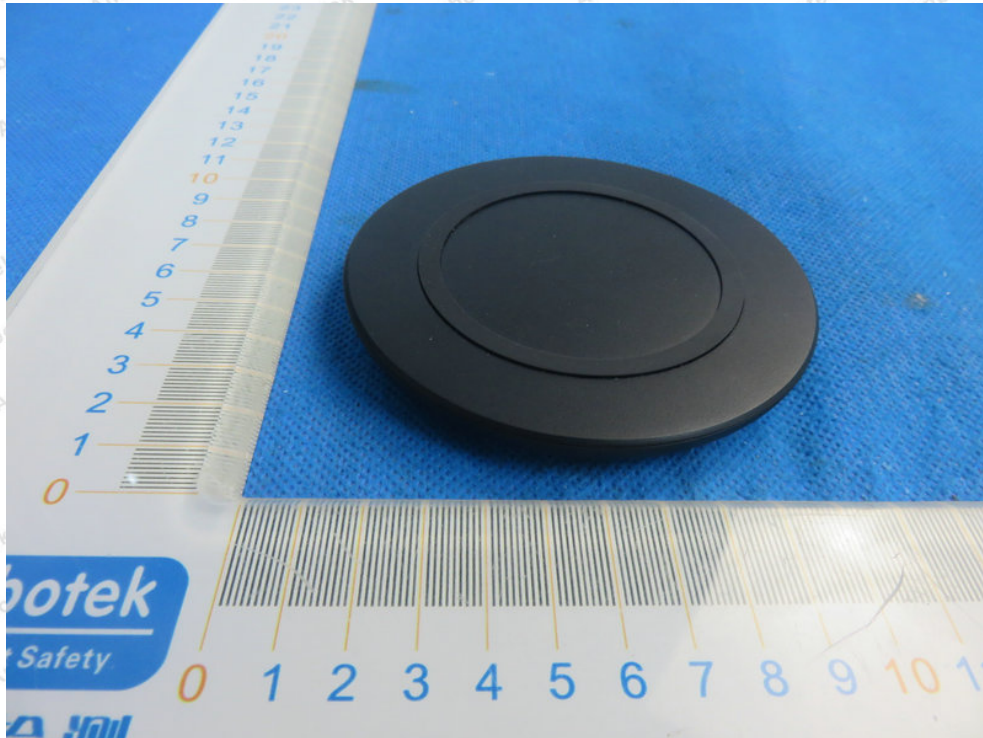
Photo of Radiation Emission Test

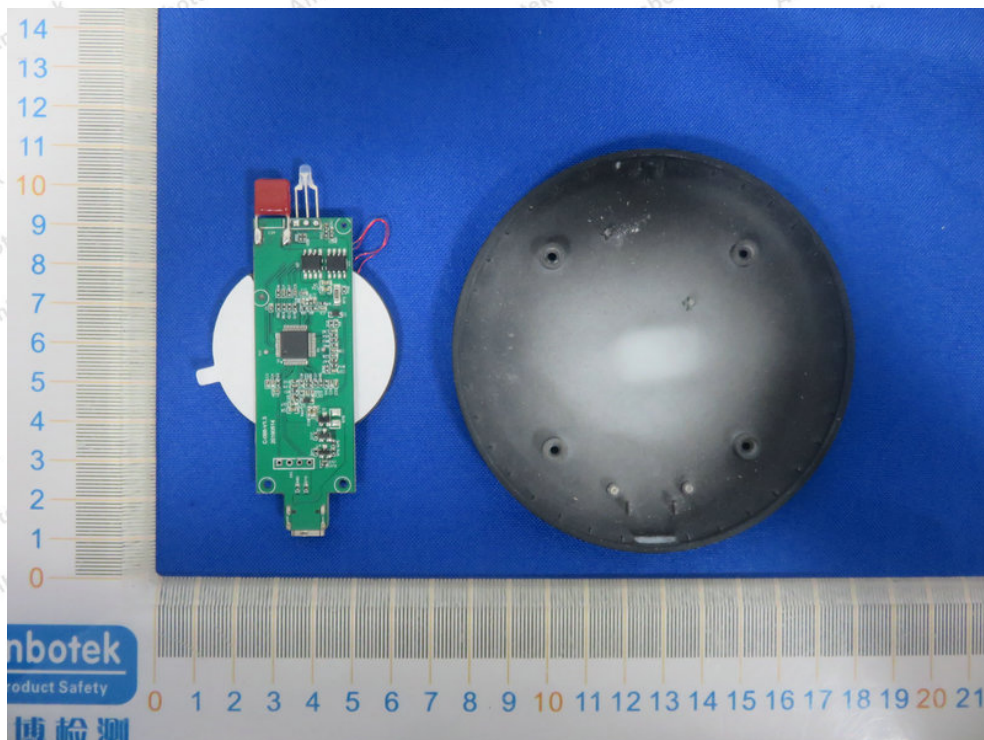


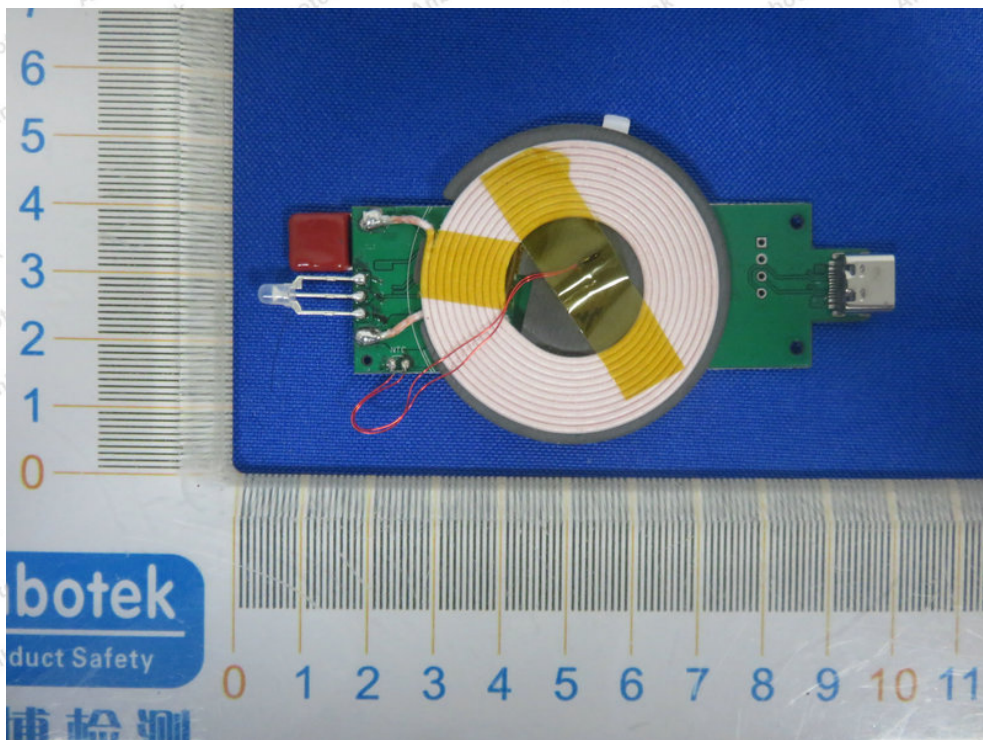
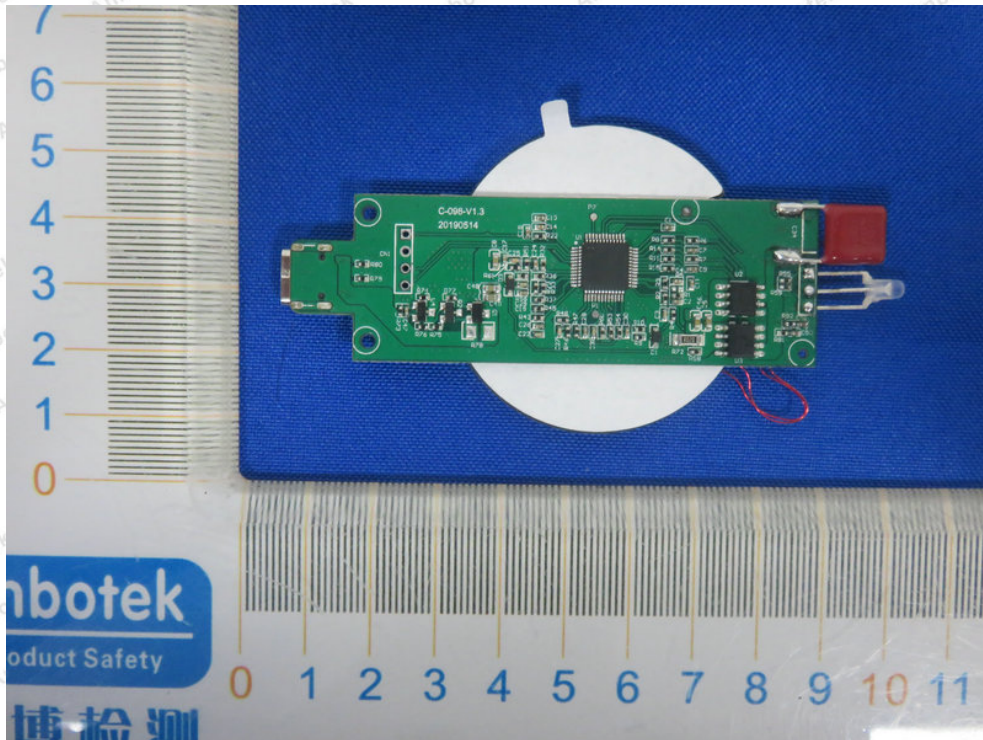


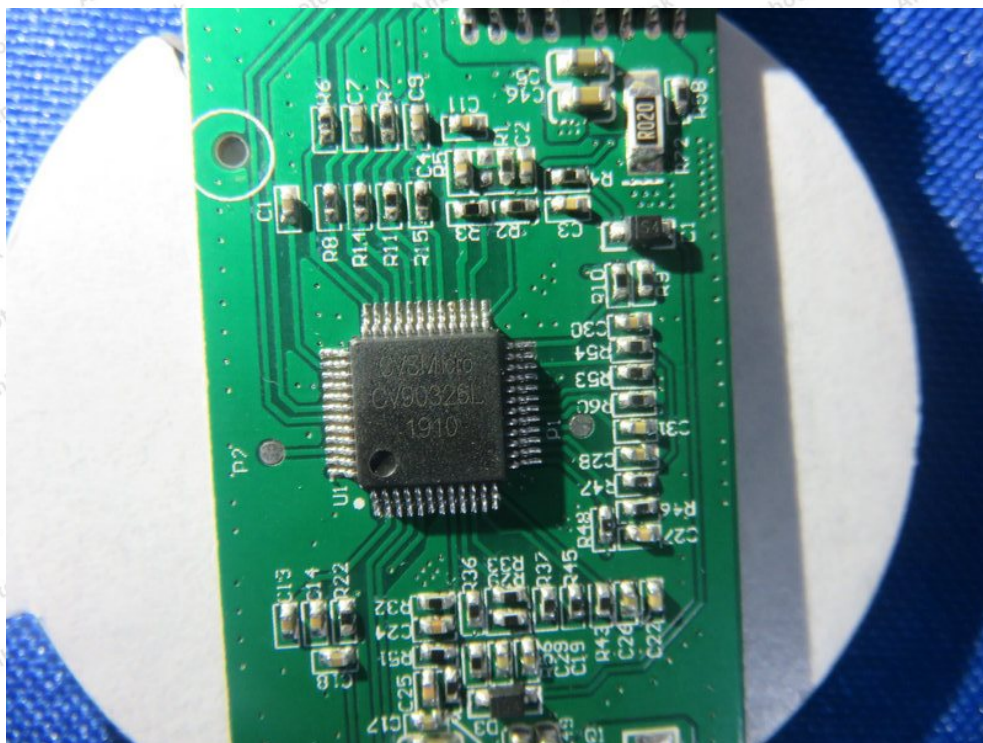
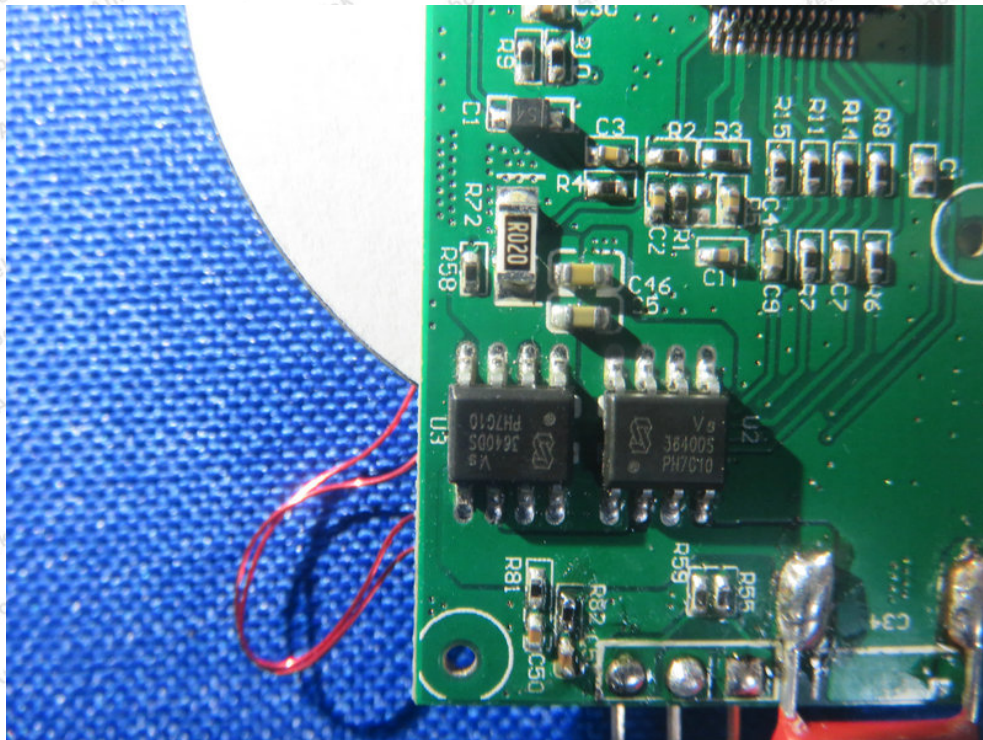
APPENDIX II -- EXTERNAL PHOTOGRAPH





APPENDIX III -- INTERNAL PHOTOGRAPH





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