

FCC TEST REPORT

For

Anker Innovations Limited

PowerWave 15 Pad

Model No.: A2502

Prepared For : Anker Innovations Limited
Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon,
Hong Kong

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
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Report Number : SZAWW181015006-01
Date of Receipt : Oct. 15, 2018
Date of Test : Oct. 15~Nov. 13, 2018
Date of Report : Nov. 13, 2018

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TEST REPORT

Applicant : Anker Innovations Limited
Manufacturer : Anker Innovations Limited
Product Name : PowerWave 15 Pad
Model No. : A2502
Trade Mark : ANKER
Rating(s) : Input: 5V=== 2A/ 9V=== 2A/ 12V=== 1.8A
Output: 5W / 7.5W / 10W / 15W

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 Test

Oct. 15~Nov. 13, 2018

Prepared By



Oliay Yang

(Engineer / Oliay Yang)

Reviewer

Snowy Meng

(Supervisor / Snowy Meng)

Approved & Authorized Signer

Sally Zhang

(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Factory	:	Shenzhen Gopod Tech Co., Ltd.
Address	:	Floor 4, 5 and 6, Building 8, Lianjian Industrial Park, Huarong Road, Tongsheng, Dalang, Longhua District, Shenzhen City, Guangdong Province, P.R.China

1.2. Description of Device (EUT)

Product Name	:	PowerWave 15 Pad
Model No.	:	A2502
Trade Mark	:	ANKER
Test Power Supply	:	AC 240V, 60Hz for adapter/ AC 120V, 60Hz for adapter
Test Sample No.	:	S1(Normal Sample), S2(Engineering Sample)
Product Description	Operation Frequency:	111~205KHz
	Modulation Type:	MSK
	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	:	Model: A2013 Input: 100-240V~ 50-60Hz 0.7A Output: 3.6-6.5V=== 3A/ 6.5-9V=== 2A/ 9-12V=== 1.5A
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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.

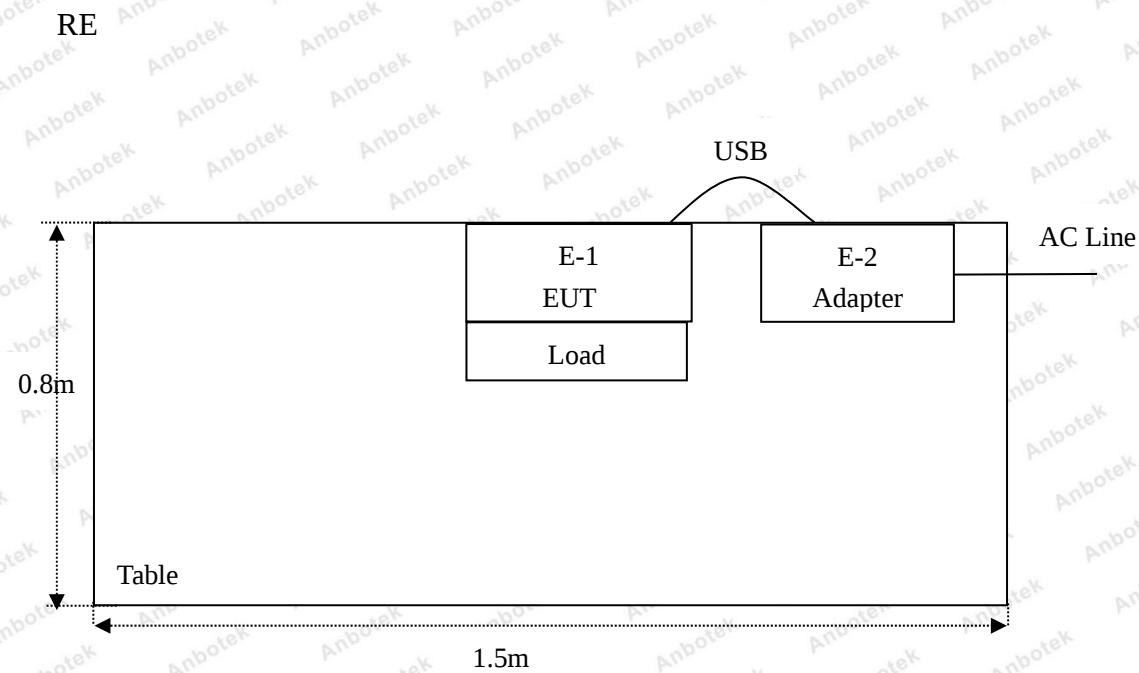
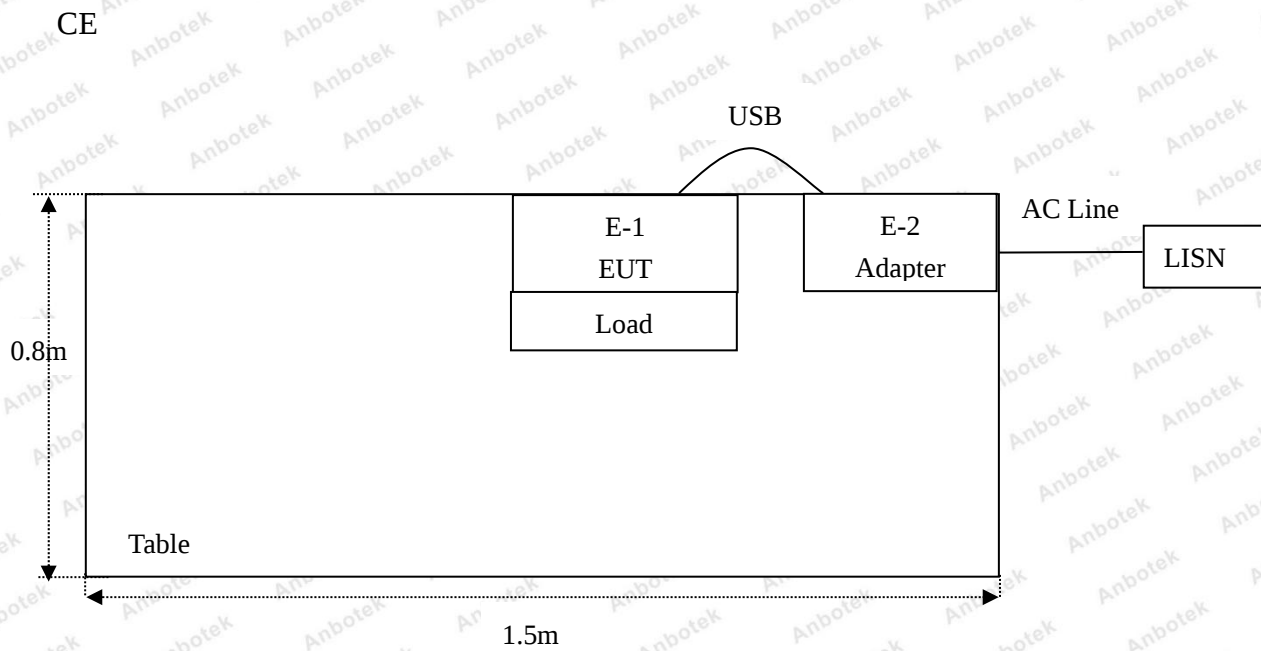
Remark: All the conditions have been tested. It is found that 15W is the worst mode, and the data in the report only reflects the worst mode.

Pretest Mode	Description
Mode 1	Wireless Charge Mode

For Conducted Emission	
Final Test Mode	Description
Mode 1	Wireless Charge Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	Wireless Charge Mode

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. 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.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 17, 2017	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
9.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
10.	Horn Antenna	Schwarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	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. 18, 2017	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
19.	DC Power Supply	LW	TPR-6410D	349315	Nov. 01, 2018	1 Year
20.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80B	ZJ-17042804	Nov. 01, 2018	1 Year

1.7. Description of Test Facility

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

FCC-Registration No.: 184111

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

Shenzhen Anbotek 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

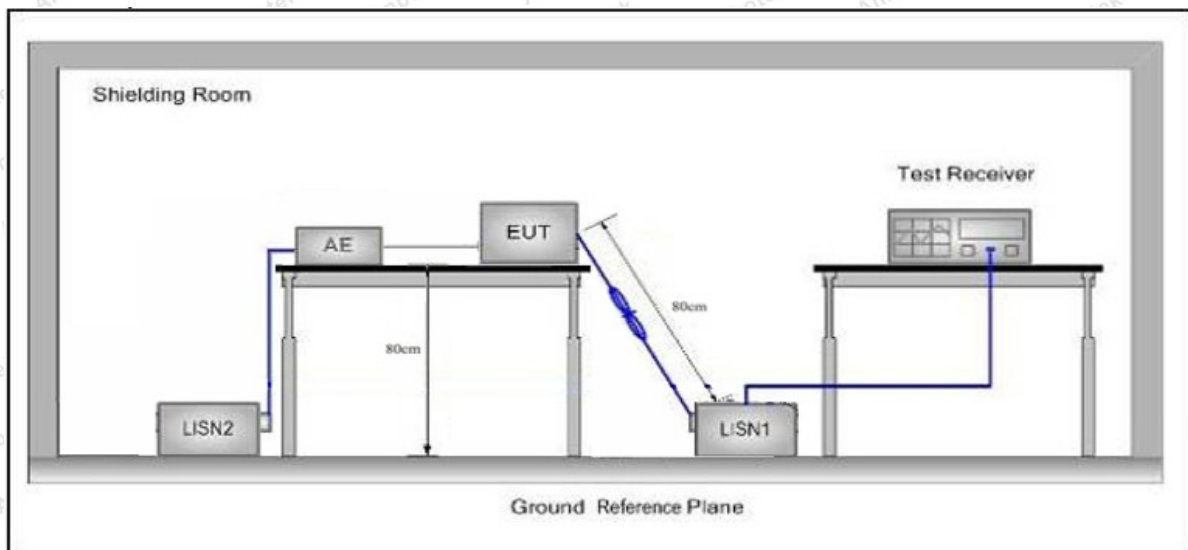
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

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.

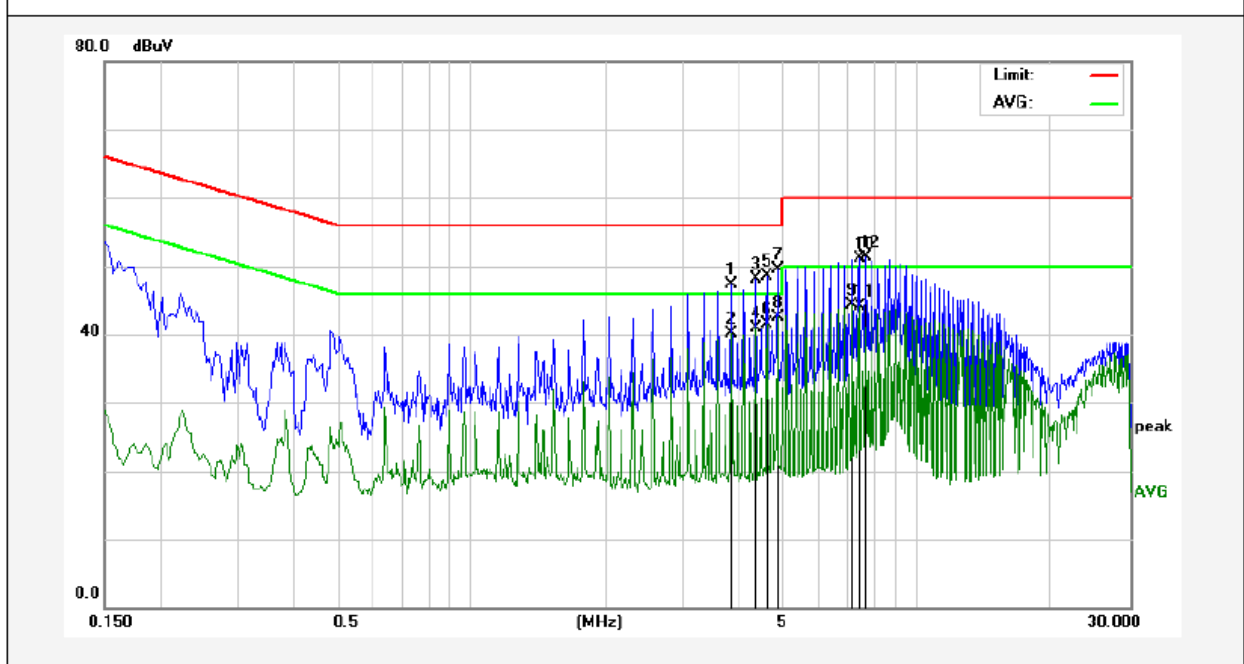
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

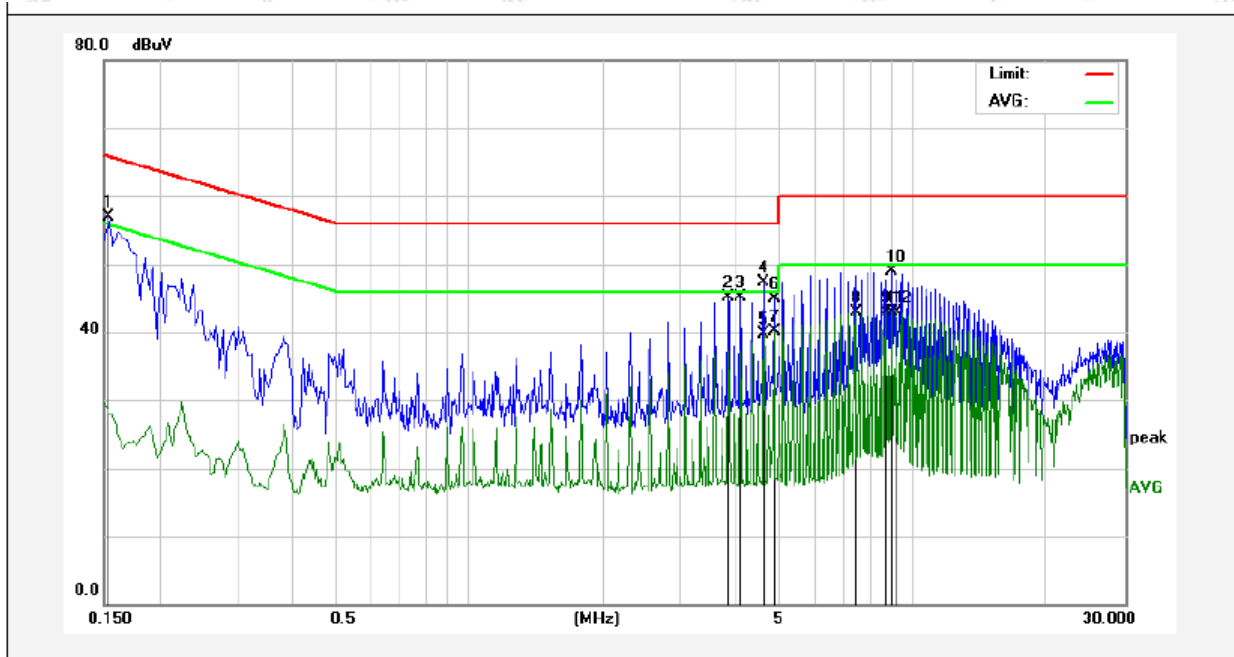
Test Site: 1# Shielded Room
Operating Condition: Wireless Charge Mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 23.5°C Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	3.8340	27.09	20.18	47.27	56.00	-8.73	QP	
2	3.8340	19.84	20.18	40.02	46.00	-5.98	AVG	
3	4.3420	27.91	20.19	48.10	56.00	-7.90	QP	
4	4.3420	20.74	20.19	40.93	46.00	-5.07	AVG	
5	4.5980	28.24	20.20	48.44	56.00	-7.56	QP	
6	4.5980	21.39	20.20	41.59	46.00	-4.41	AVG	
7	4.8540	29.30	20.20	49.50	56.00	-6.50	QP	
8	4.8540	22.32	20.20	42.52	46.00	-3.48	AVG	
9	7.1540	24.08	20.26	44.34	50.00	-5.66	AVG	
10	7.4100	30.76	20.27	51.03	60.00	-8.97	QP	
11	7.4100	23.83	20.27	44.10	50.00	-5.90	AVG	
12	7.6660	30.94	20.28	51.22	60.00	-8.78	QP	

Conducted Emission Test Data

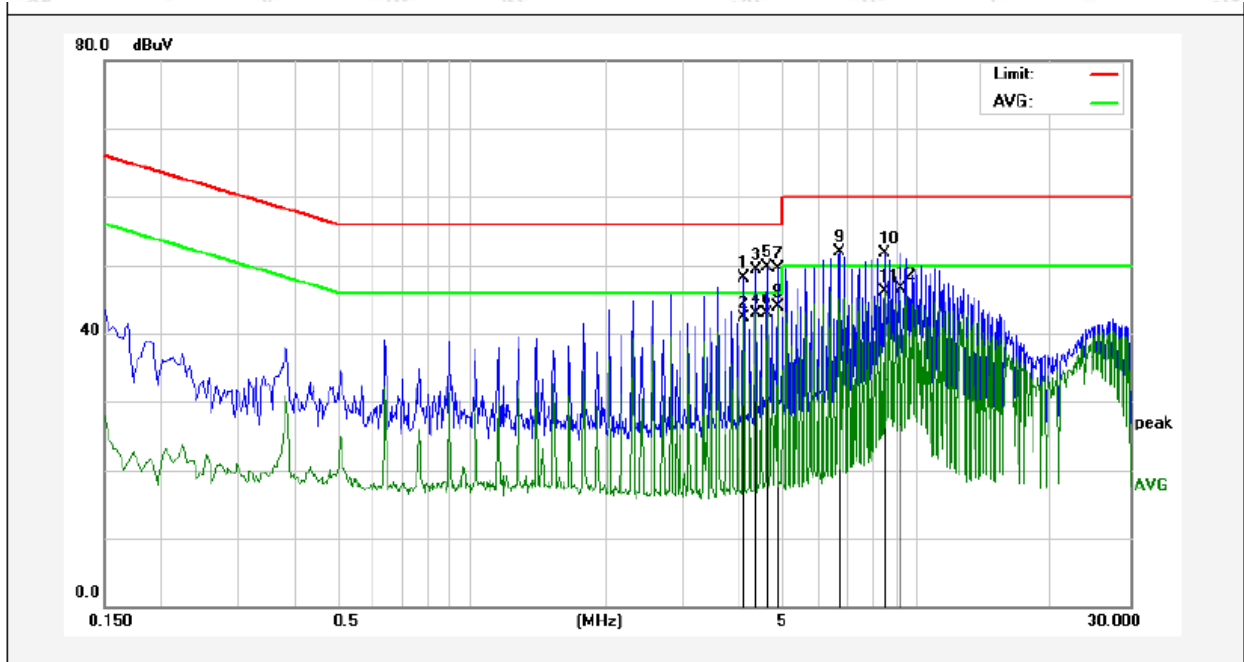
Test Site: 1# Shielded Room
Operating Condition: Wireless Charge Mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 23.5°C Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1539	37.05	19.90	56.95	65.78	-8.83	QP	
2	3.8340	25.00	20.18	45.18	56.00	-10.82	QP	
3	4.0900	24.97	20.18	45.15	56.00	-10.85	QP	
4	4.5980	27.07	20.20	47.27	56.00	-8.73	QP	
5	4.5980	19.48	20.20	39.68	46.00	-6.32	AVG	
6	4.8540	24.74	20.20	44.94	56.00	-11.06	QP	
7	4.8540	19.94	20.20	40.14	46.00	-5.86	AVG	
8	7.4100	22.70	20.27	42.97	50.00	-7.03	AVG	
9	8.6860	22.54	20.30	42.84	50.00	-7.16	AVG	
10	8.9420	28.50	20.31	48.81	60.00	-11.19	QP	
11	8.9420	22.57	20.31	42.88	50.00	-7.12	AVG	
12	9.1980	22.63	20.32	42.95	50.00	-7.05	AVG	

Conducted Emission Test Data

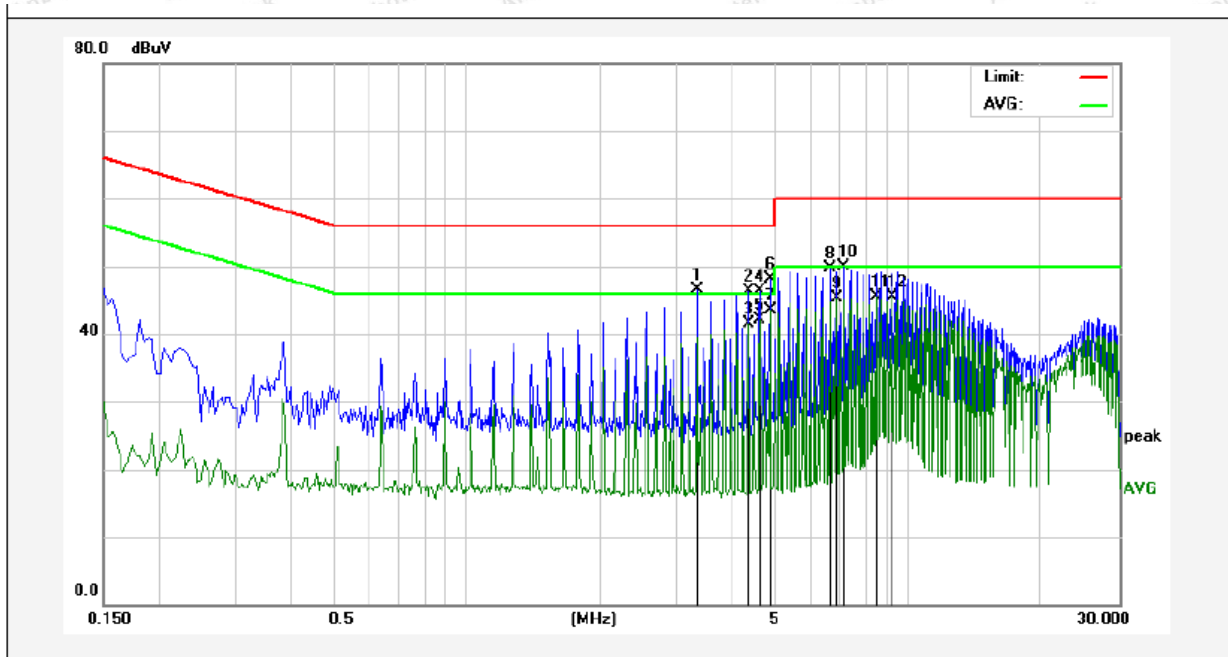
Test Site: 1# Shielded Room
Operating Condition: Wireless Charge Mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 23.5°C Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	4.0900	28.02	20.18	48.20	56.00	-7.80	QP	
2	4.0900	22.05	20.18	42.23	46.00	-3.77	AVG	
3	4.3420	29.03	20.19	49.22	56.00	-6.78	QP	
4	4.3420	22.74	20.19	42.93	46.00	-3.07	AVG	
5	4.5980	29.54	20.20	49.74	56.00	-6.26	QP	
6	4.5980	22.72	20.20	42.92	46.00	-3.08	AVG	
7	4.8540	29.35	20.20	49.55	56.00	-6.45	QP	
8	4.8540	23.66	20.20	43.86	46.00	-2.14	AVG	
9	6.6820	31.67	20.25	51.92	60.00	-8.08	QP	
10	8.4300	31.45	20.30	51.75	60.00	-8.25	QP	
11	8.4300	25.85	20.30	46.15	50.00	-3.85	AVG	
12	9.1980	26.15	20.32	46.47	50.00	-3.53	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Wireless Charge Mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 23.5°C Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	3.3220	26.29	20.17	46.46	56.00	-9.54	QP	
2	4.3420	26.09	20.19	46.28	56.00	-9.72	QP	
3	4.3420	21.37	20.19	41.56	46.00	-4.44	AVG	
4	4.5980	26.11	20.20	46.31	56.00	-9.69	QP	
5	4.5980	21.84	20.20	42.04	46.00	-3.96	AVG	
6	4.8540	27.97	20.20	48.17	56.00	-7.83	QP	
7	4.8540	23.21	20.20	43.41	46.00	-2.59	AVG	
8	6.6420	29.41	20.25	49.66	60.00	-10.34	QP	
9	6.8980	25.13	20.26	45.39	50.00	-4.61	AVG	
10	7.1540	29.56	20.26	49.82	60.00	-10.18	QP	
11	8.4300	25.16	20.30	45.46	50.00	-4.54	AVG	
12	9.1980	25.10	20.32	45.42	50.00	-4.58	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

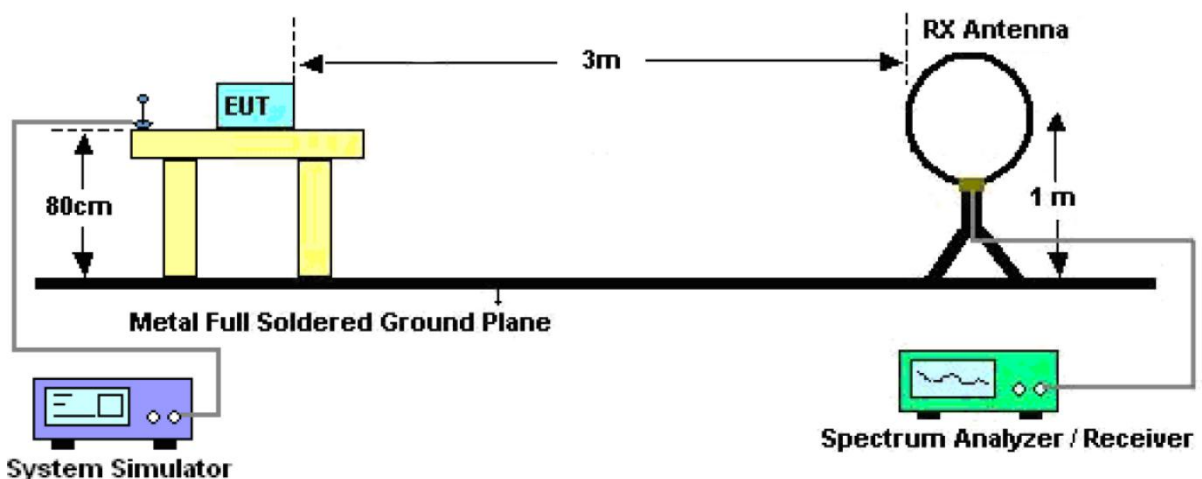


Figure 1. Below 30MHz

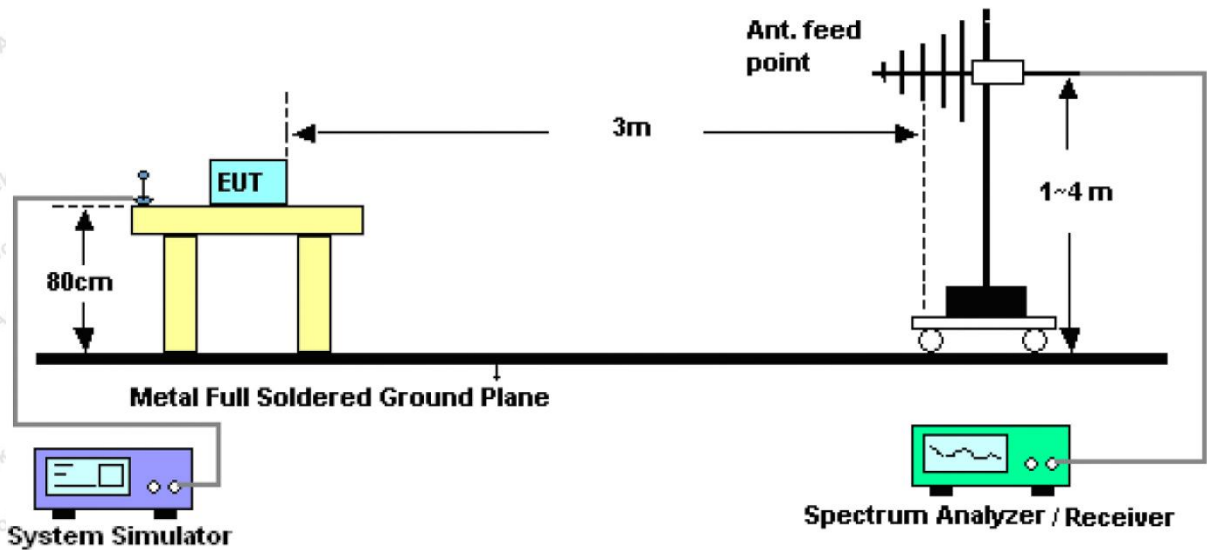


Figure 2. 30MHz to 1GHz

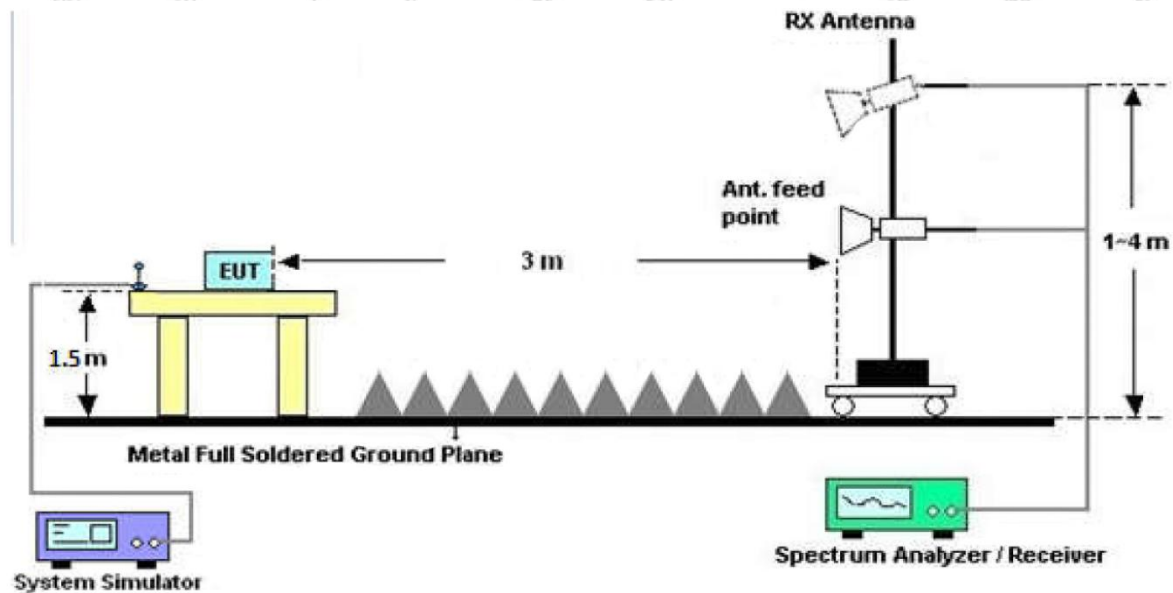


Figure 3. Above 1 GHz

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.

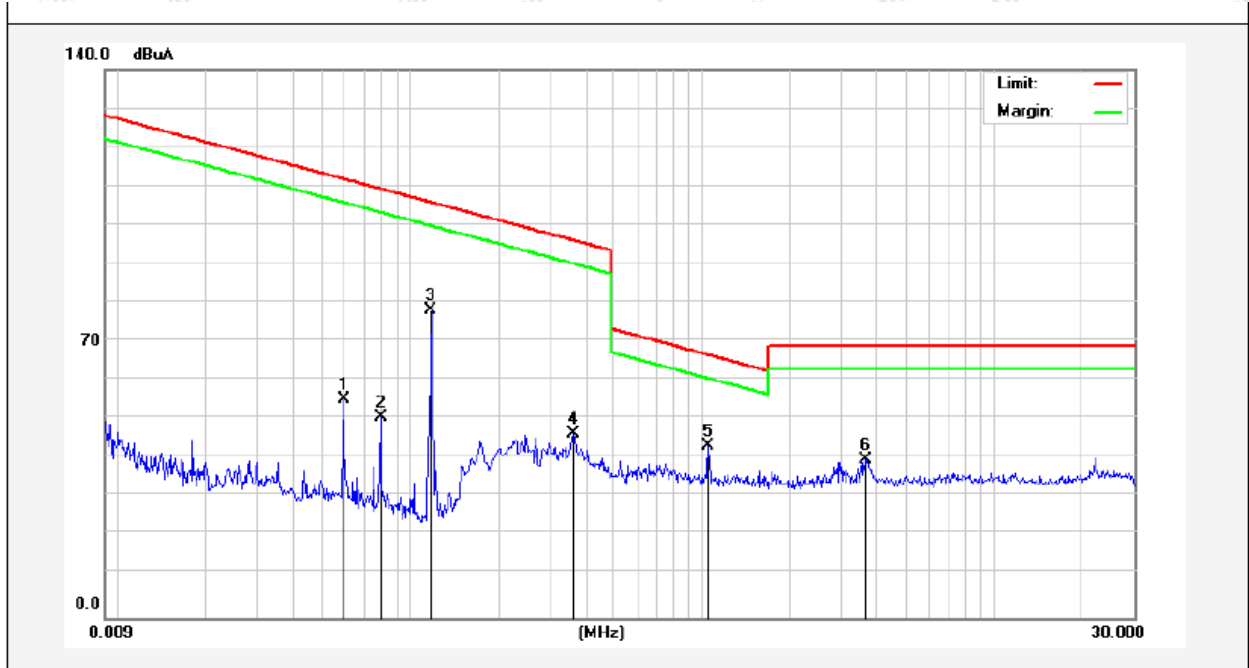
4.4. Test Data

PASS

Test Results

(Between 9KHz – 30MHz)

Job No.:	SZAWW181015006-01	Power Source:	AC 120V, 60Hz for adapter
Standard:	FCC PART15 C _3m	Temp.(C)/Hum.(%RH):	24.7°C/51%RH
Test item:	Radiation Test	Distance:	3m
Test Mode:	Mode 1		

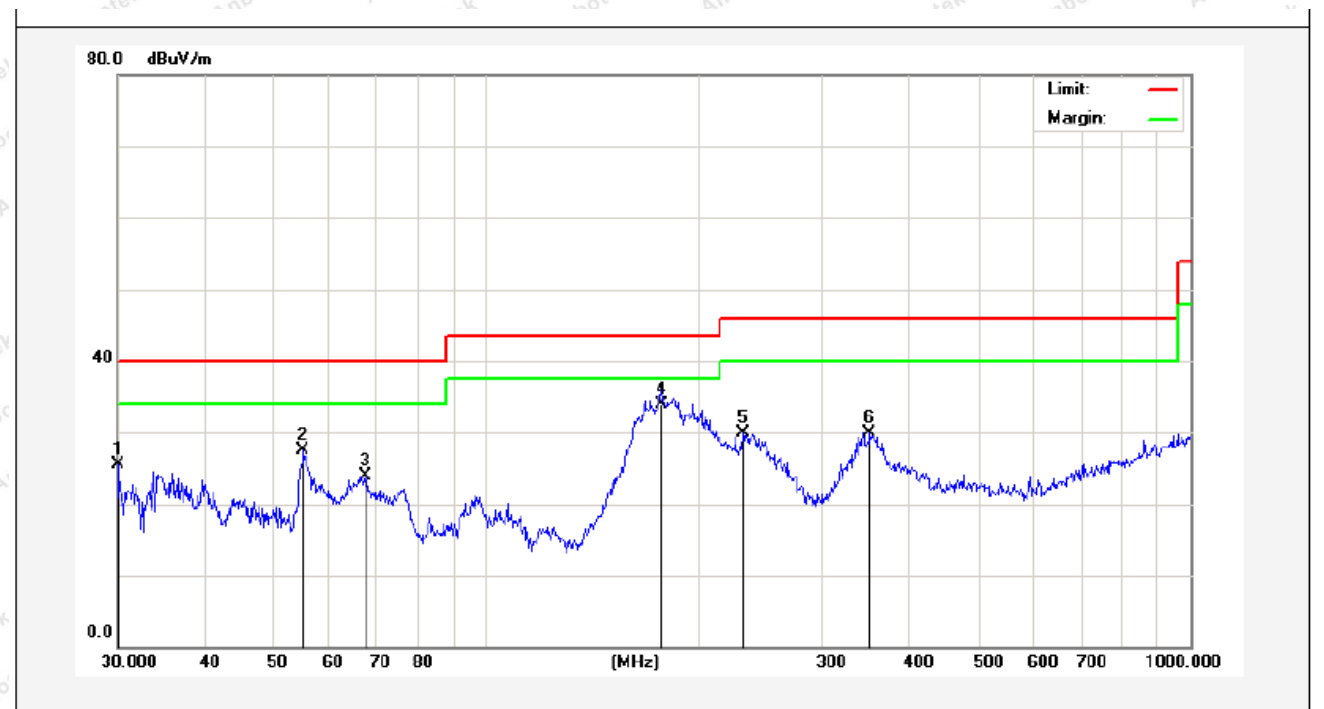


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0592	58.53	19.30	2.53	0	80.36	132.05	-51.69	Peak	60
0.0592	34.12	19.30	2.53	0	55.95	112.05	-56.10	AV	60
0.0792	38.01	19.32	2.55	0	59.88	129.54	-69.66	Peak	40
0.0792	29.54	19.32	2.55	0	51.41	109.54	-58.13	AV	40
0.1184	68.81	19.32	2.55	0	90.68	126.07	-35.39	Peak	78
0.1184	56.85	19.32	2.55	0	78.72	106.07	-27.35	AV	78
0.3618	38.86	19.36	2.62	0	60.84	116.42	-55.58	Peak	150
0.3618	24.97	19.36	2.62	0	46.95	96.42	-49.47	AV	150
1.0500	21.95	19.37	2.63	0	43.95	67.18	-23.23	QP	60
3.6219	18.36	19.37	2.63	0	40.36	69.54	-29.18	QP	79

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.

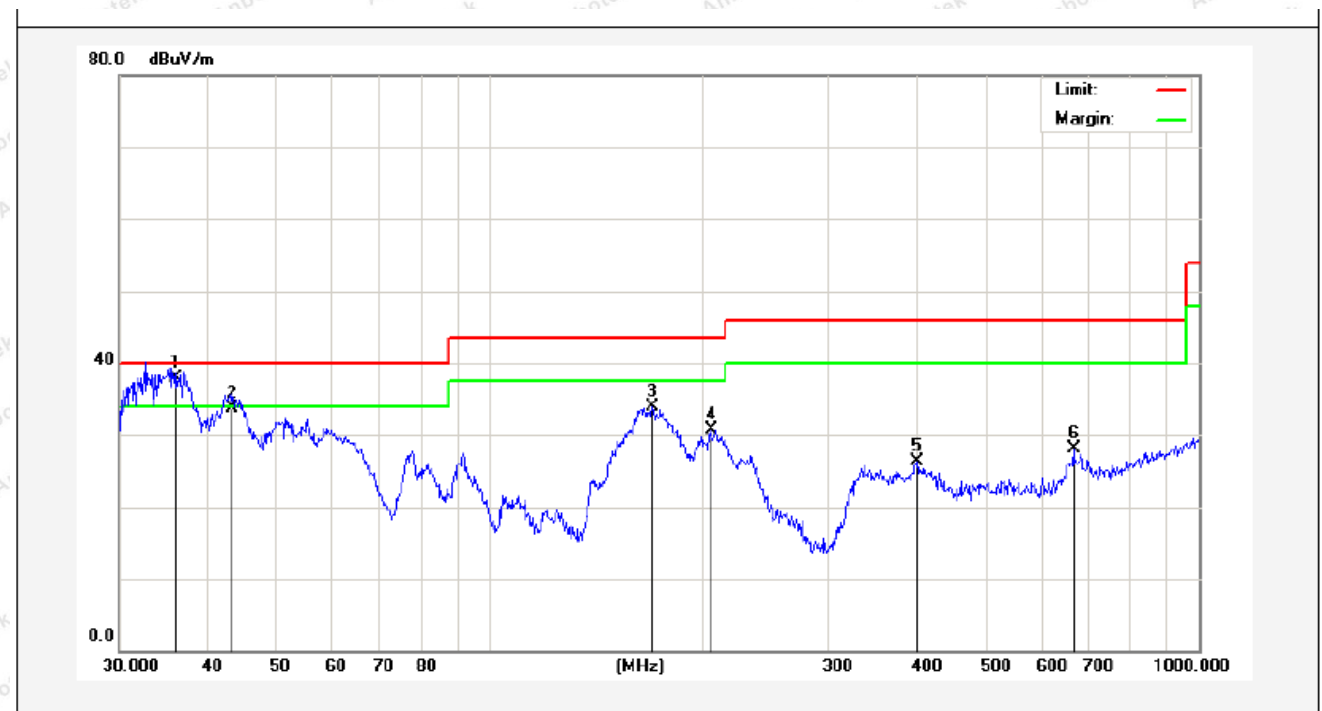
(Between 30MHz -1000 MHz)

Job No.:	SZAWW181015006-01	Polarization:	Horizontal
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3°C/56%RH
Test Mode:	Mode 1	Distance:	3m



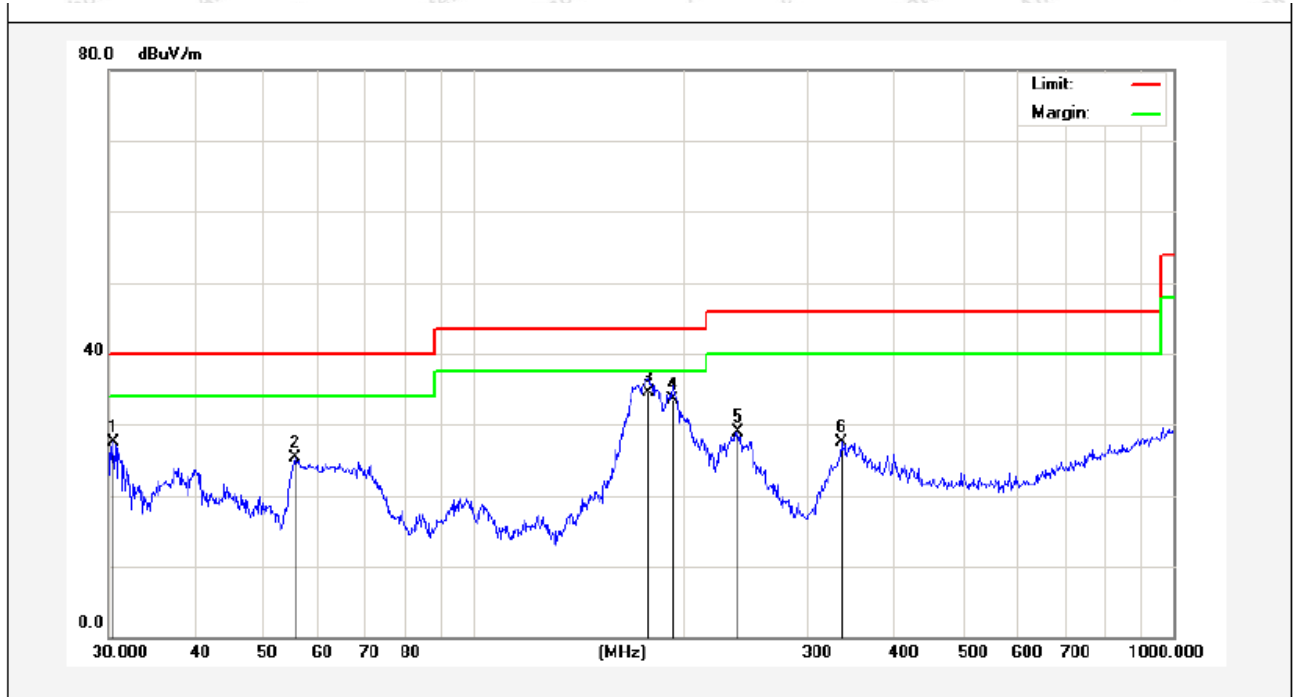
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0000	44.03	-18.55	25.48	40.00	-14.52	QP	300	112	
2	55.0274	45.31	-17.73	27.58	40.00	-12.42	QP	300	321	
3	67.4382	44.75	-20.81	23.94	40.00	-16.06	QP	300	56	
4	177.5092	54.78	-20.78	34.00	43.50	-9.50	QP	300	117	
5	231.7179	49.08	-19.24	29.84	46.00	-16.16	QP	300	221	
6	350.4768	44.27	-14.46	29.81	46.00	-16.19	QP	300	354	

Job No.:	SZAWW181015006-01	Polarization:	Vertical
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3°C/56%RH
Test Mode:	Mode 1	Distance:	3m



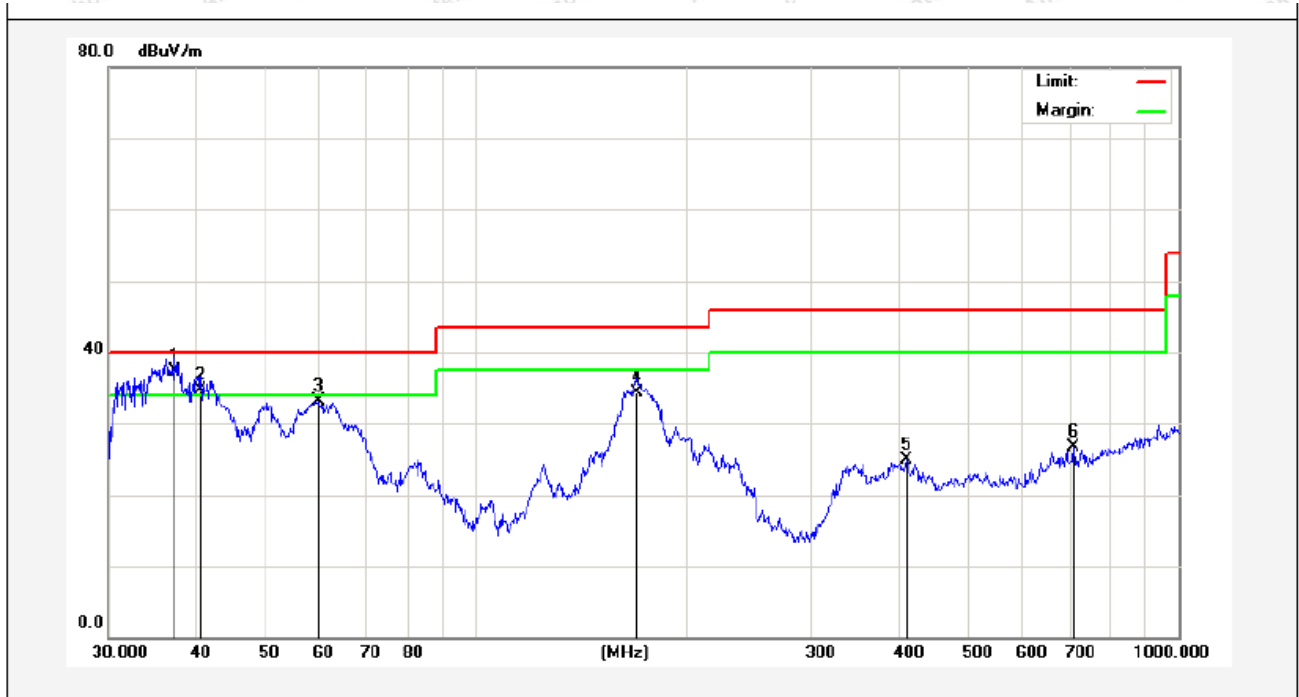
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	36.1486	53.32	-15.47	37.85	40.00	-2.15	QP	300	123	
2	43.2017	48.05	-14.31	33.74	40.00	-6.26	QP	300	275	
3	169.5990	51.39	-17.58	33.81	43.50	-9.69	QP	300	225	
4	204.9551	46.51	-15.73	30.78	43.50	-12.72	QP	300	302	
5	400.4319	38.09	-11.86	26.23	46.00	-19.77	QP	300	164	
6	665.8035	36.82	-8.73	28.09	46.00	-17.91	QP	300	96	

Job No.:	SZAWW181015006-01	Polarization:	Horizontal
Standard:	FCC PART15 C _3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3°C/56%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	30.5306	45.94	-18.39	27.55	40.00	-12.45	QP	300	12	
2	55.4147	43.03	-17.75	25.28	40.00	-14.72	QP	300	75	
3	177.5092	55.36	-20.78	34.58	43.50	-8.92	QP	300	0	
4	192.4186	54.18	-20.67	33.51	43.50	-9.99	QP	300	115	
5	238.3102	47.50	-18.65	28.85	46.00	-17.15	QP	300	275	
6	334.8589	42.66	-15.20	27.46	46.00	-18.54	QP	300	312	

Job No.:	SZAWW181015006-01	Polarization:	Vertical
Standard:	FCC PART15 C _3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3°C/56%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	37.2855	52.20	-14.84	37.36	40.00	-2.64	QP	300	76	
2	40.5591	48.20	-13.53	34.67	40.00	-5.33	QP	300	123	
3	59.8588	50.09	-16.99	33.10	40.00	-6.90	QP	300	117	
4	169.5990	51.96	-17.58	34.38	43.50	-9.12	QP	300	250	
5	410.3825	36.41	-11.57	24.84	46.00	-21.16	QP	300	291	
6	709.1823	34.86	-8.21	26.65	46.00	-19.35	QP	300	332	

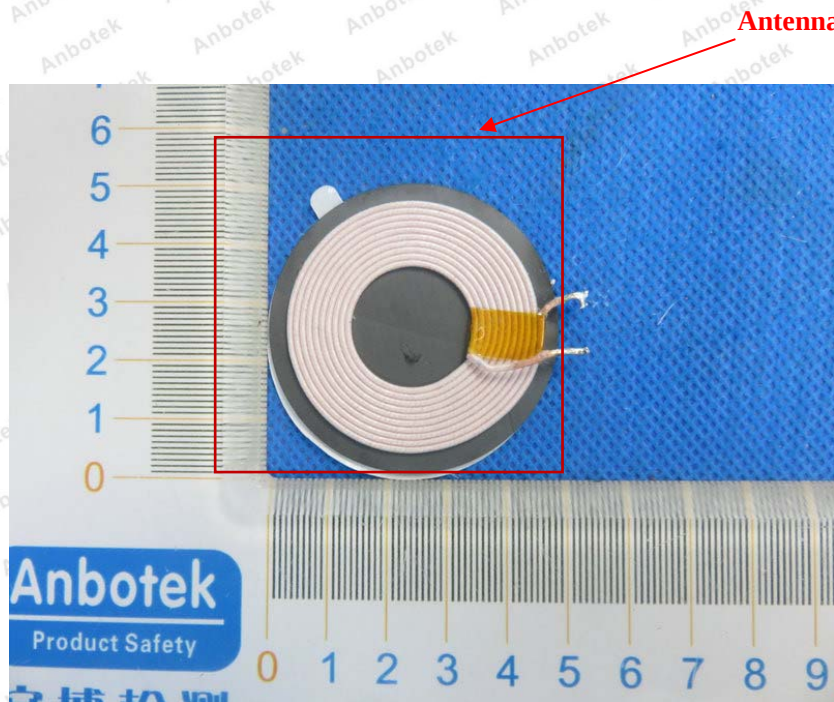
5. Antenna Requirement

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

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.

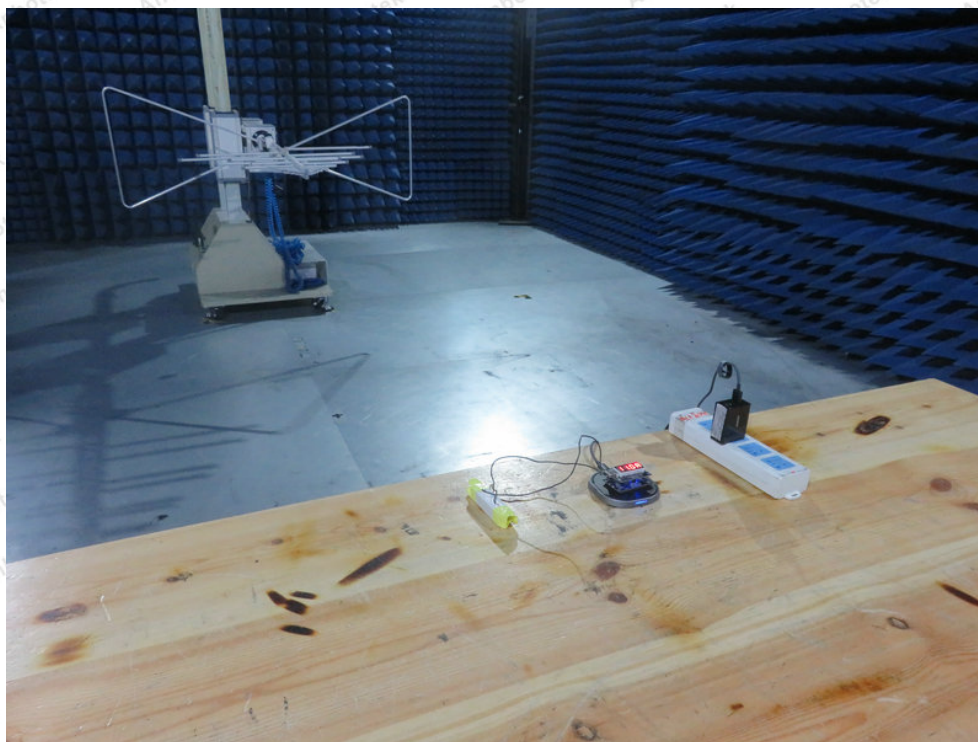


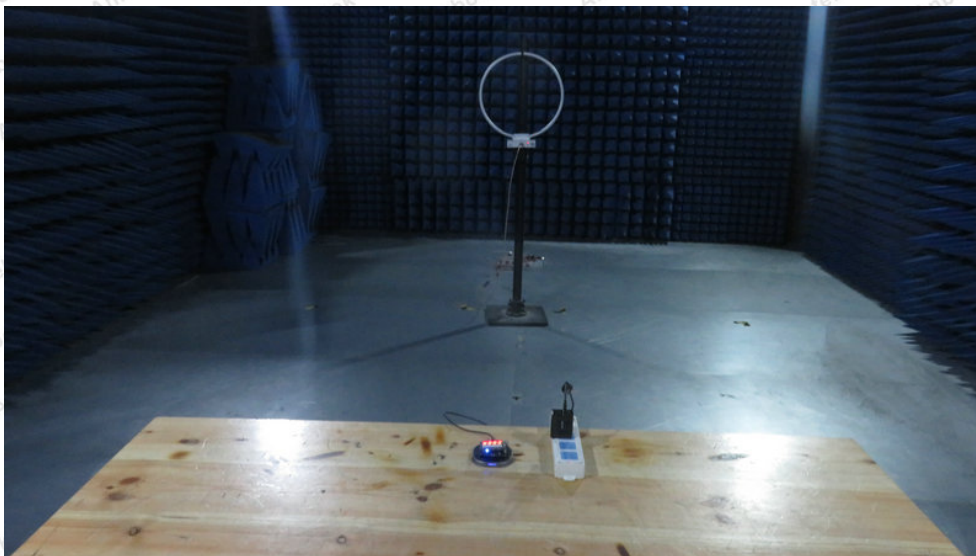
APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH

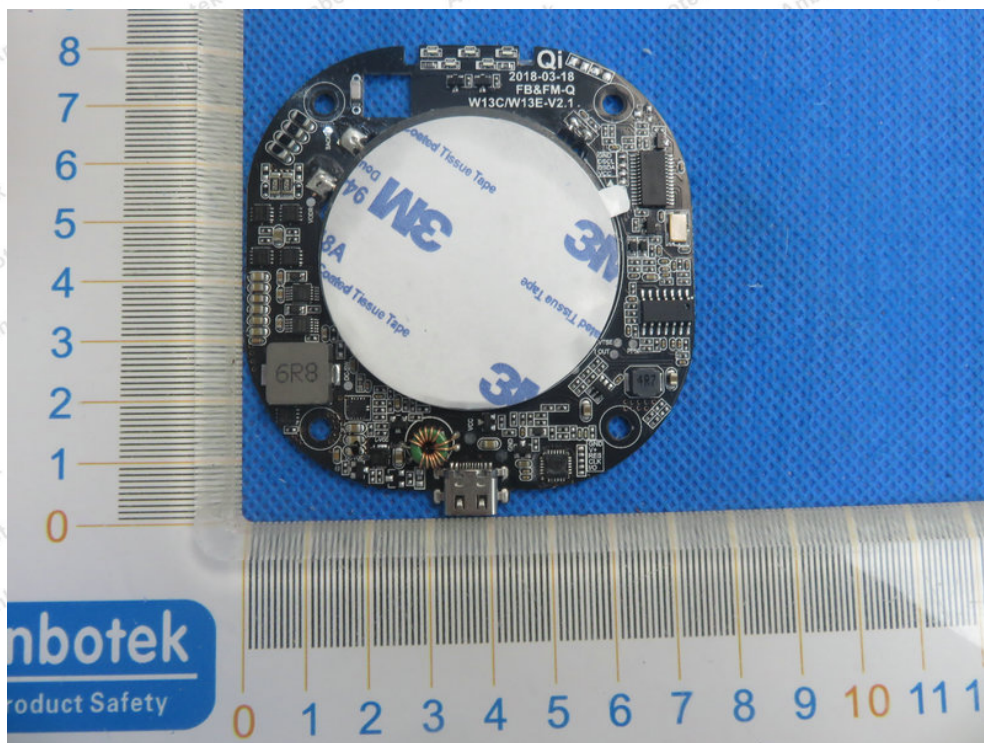


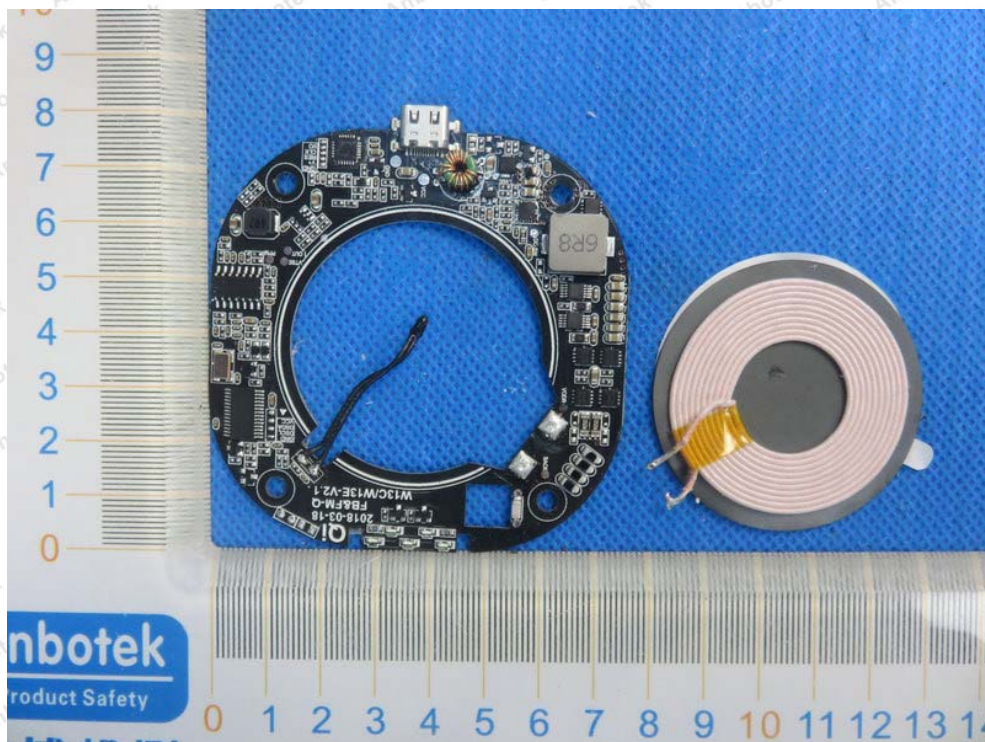
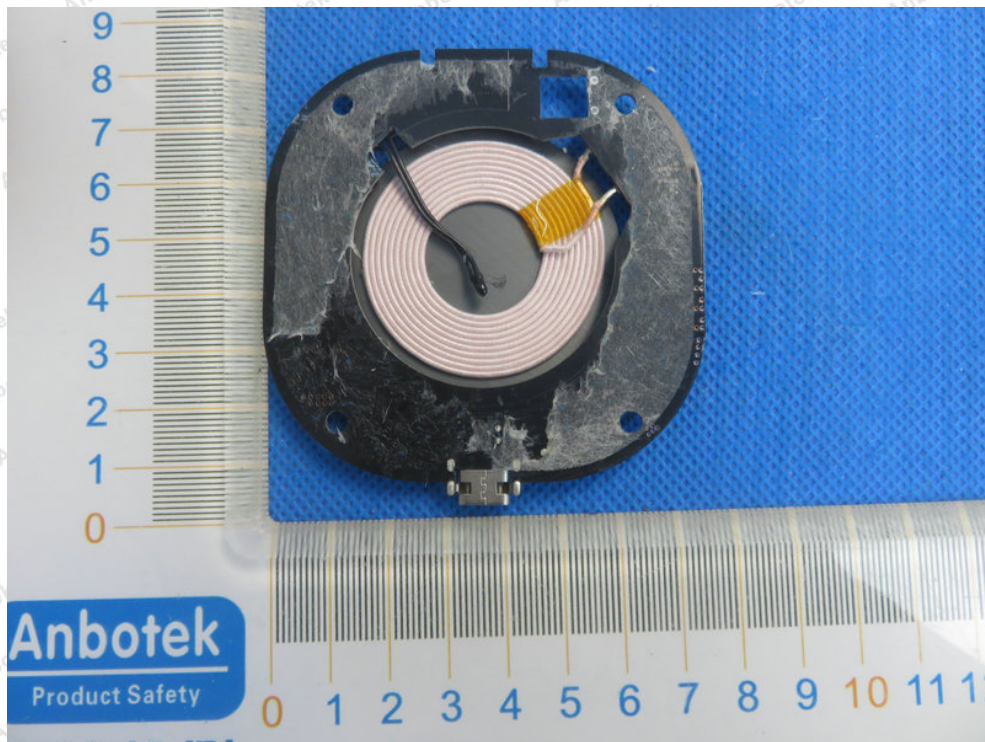


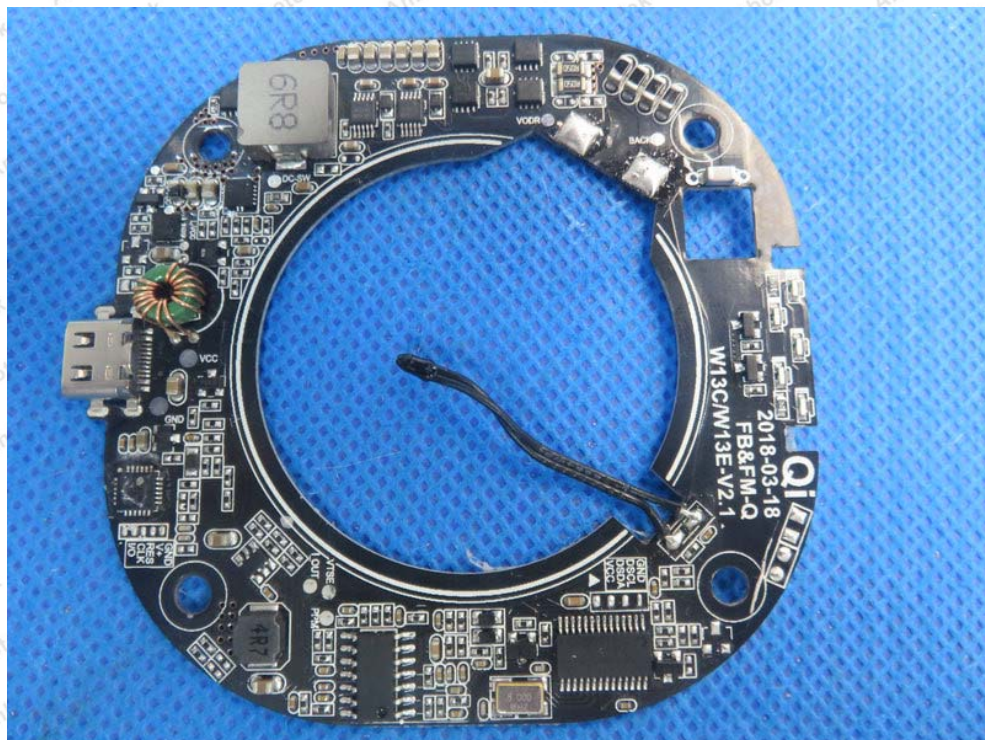




APPENDIX III -- INTERNAL PHOTOGRAPH







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