

FCC TEST REPORT

For

Loctek Ergonomic Technology Corp.

wireless charger

Model No.: QI02, QI04, QI05, QI06, QI07, QI08, QI09, QI10, QI11

Prepared For : Loctek Ergonomic Technology Corp.
Address : 588 Qihang South Road Binhai Industrial Zone Yinzhou District Ningbo,
Zhejiang 315145 P.R. China

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Date of Receipt : Nov. 14, 2018
Date of Test : Nov. 14~24, 2018
Date of Report : Nov. 24, 2018

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TEST REPORT

Applicant : Loctek Ergonomic Technology Corp.
Manufacturer : Loctek Ergonomic Technology Corp.
Product Name : wireless charger
Model No. : QI02, QI04, QI05, QI06, QI07, QI08, QI09, QI10, QI11
Trade Mark : N.A.
Rating(s) : Input: 20-36V $\overline{=}$ 1A Max
Output: 5W / 7.5W / 10W MAX

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 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

Nov. 14~24, 2018

Prepared By



Oliay Yang

(Engineer / Oliay Yang)

Snowy Meng

Reviewer

(Supervisor / Snowy Meng)

Approved & Authorized Signer

Sally Zhang

(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	Loctek Ergonomic Technology Corp.
Address	:	588 Qihang South Road Binhai Industrial Zone Yinzhou District Ningbo, Zhejiang 315145 P.R. China
Manufacturer	:	Loctek Ergonomic Technology Corp.
Address	:	588 Qihang South Road Binhai Industrial Zone Yinzhou District Ningbo, Zhejiang 315145 P.R. China
Factory	:	Loctek Ergonomic Technology Corp.
Address	:	588 Qihang South Road Binhai Industrial Zone Yinzhou District Ningbo, Zhejiang 315145 P.R. China

1.2. Description of Device (EUT)

Product Name	:	wireless charger	
Model No.	:	QI02, QI04, QI05, QI06, QI07, QI08, QI09, QI10, QI11 (Note: All samples are the same except the appearance, so we prepare "QI02" for test only.)	
Trade Mark	:	N.A.	
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:	110.1-148.5KHz
		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: CBxxMxx(IB)-y Input: 100-240VVAC, 50/60Hz, 300W, MAX 4A Output M1, M2: MAX 33V==, MAX 4A Output DC: DC 33V, MAX 1.1A Duty Cycle: 2 Minutes ON, 18 Minutes OFF M.D.: 20180502
Mobile Phone	:	Samsung Galaxy 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.

Remark: All the conditions have been tested. It is found that 10W is the worst mode, and the data in the report only reflects the worst mode.

Pretest Mode	Description
Mode 1	TX Mode

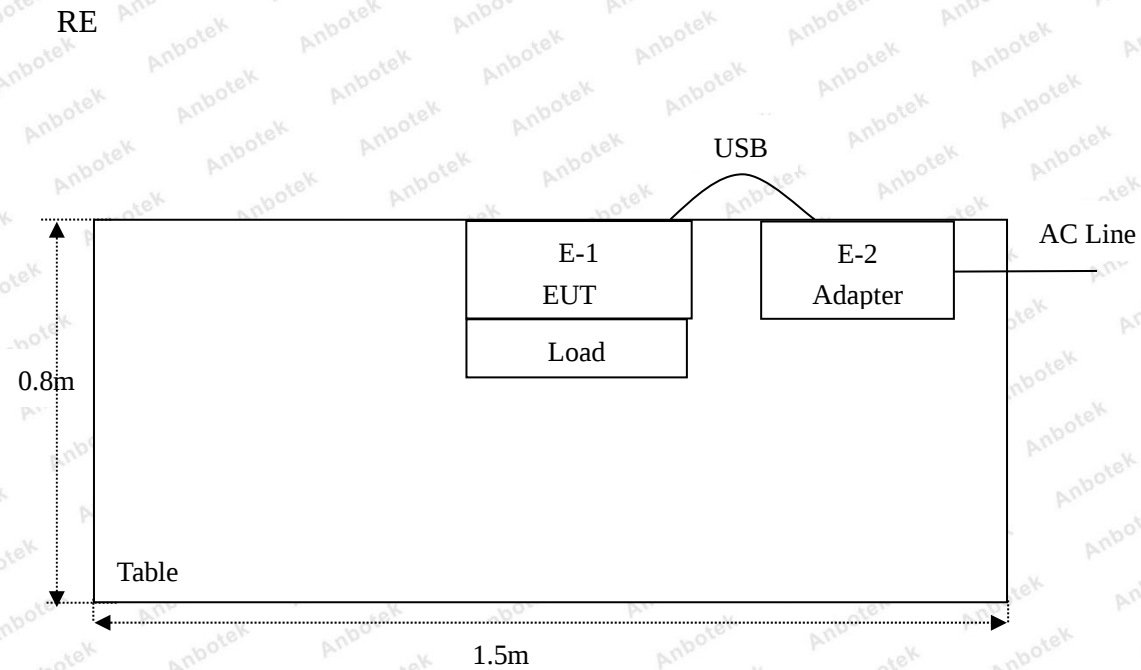
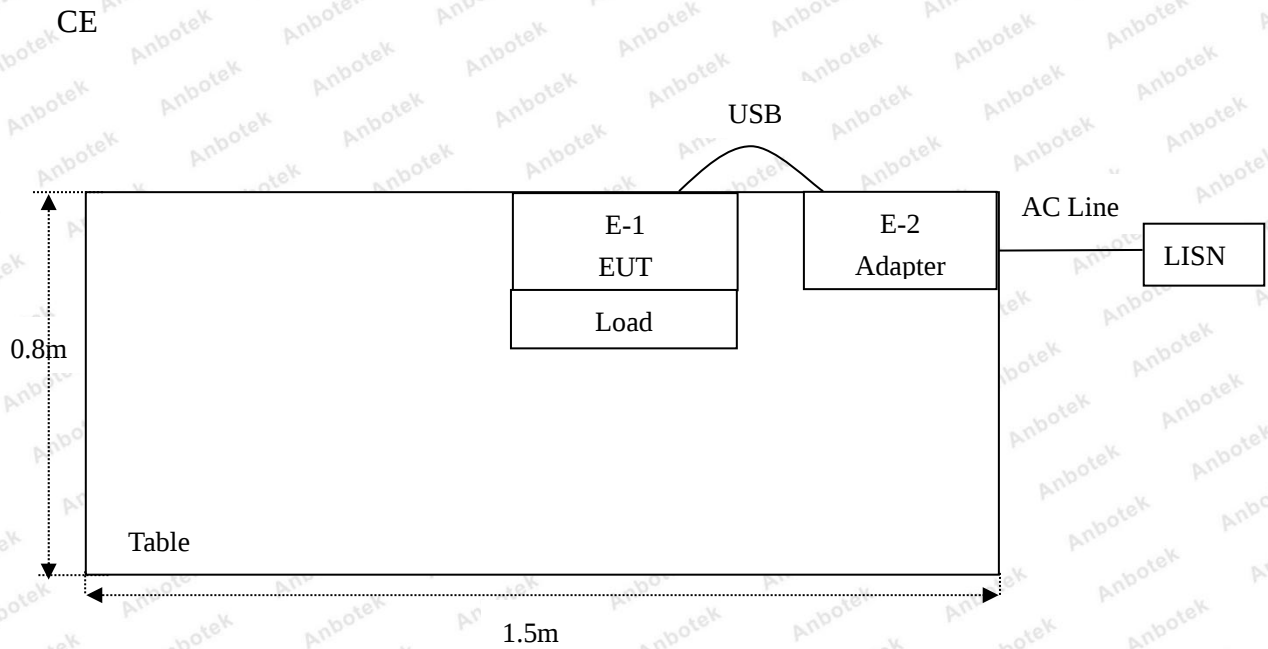
For Conducted Emission	
Final Test Mode	Description
Mode 1	TX Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX Mode

Note: (1)Test channel is 0.1282MHz.

(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. 05, 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	BK1G18G30D	KD17503	Nov. 05, 2018	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 19, 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	IVYTECH	IV3605	1804D360510	Apr. 02, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	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

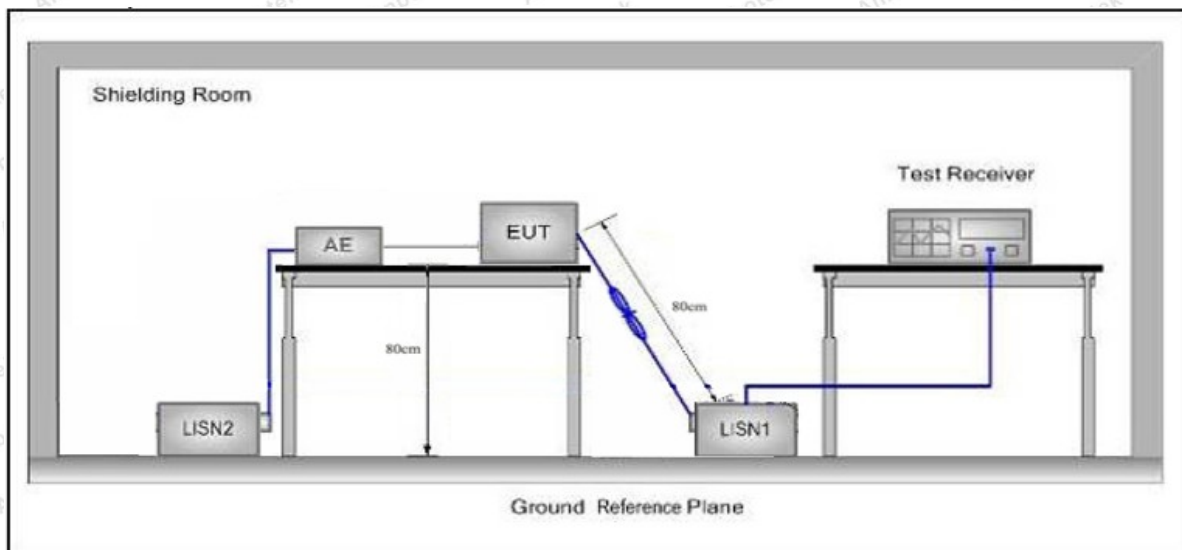
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

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.

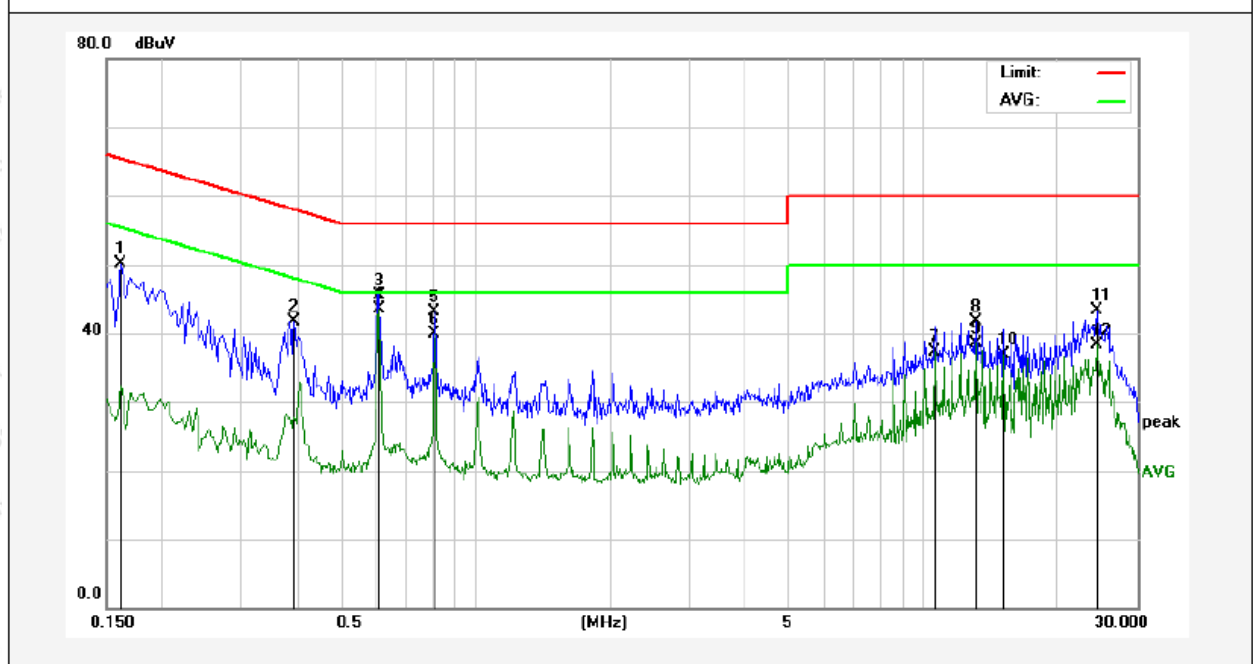
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

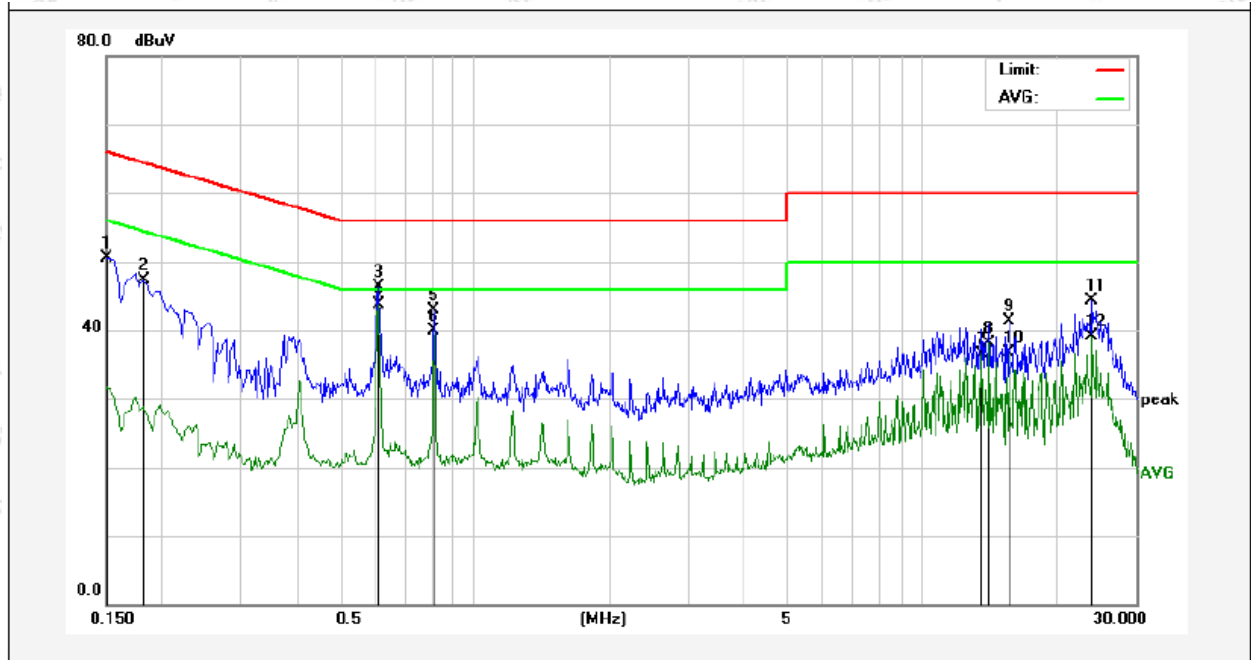
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 23.5°C Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1620	30.17	19.90	50.07	65.36	-15.29	QP	
2	0.3940	21.80	19.93	41.73	57.98	-16.25	QP	
3	0.6100	25.59	20.01	45.60	56.00	-10.40	QP	
4	0.6100	23.57	20.01	43.58	46.00	-2.42	AVG	
5	0.8100	23.07	20.07	43.14	56.00	-12.86	QP	
6	0.8100	19.89	20.07	39.96	46.00	-6.04	AVG	
7	10.5900	17.05	20.33	37.38	50.00	-12.62	AVG	
8	13.1100	21.32	20.29	41.61	60.00	-18.39	QP	
9	13.1100	18.29	20.29	38.58	50.00	-11.42	AVG	
10	15.1220	16.59	20.26	36.85	50.00	-13.15	AVG	
11	24.4020	23.04	20.29	43.33	60.00	-16.67	QP	
12	24.4020	18.02	20.29	38.31	50.00	-11.69	AVG	

Conducted Emission Test Data

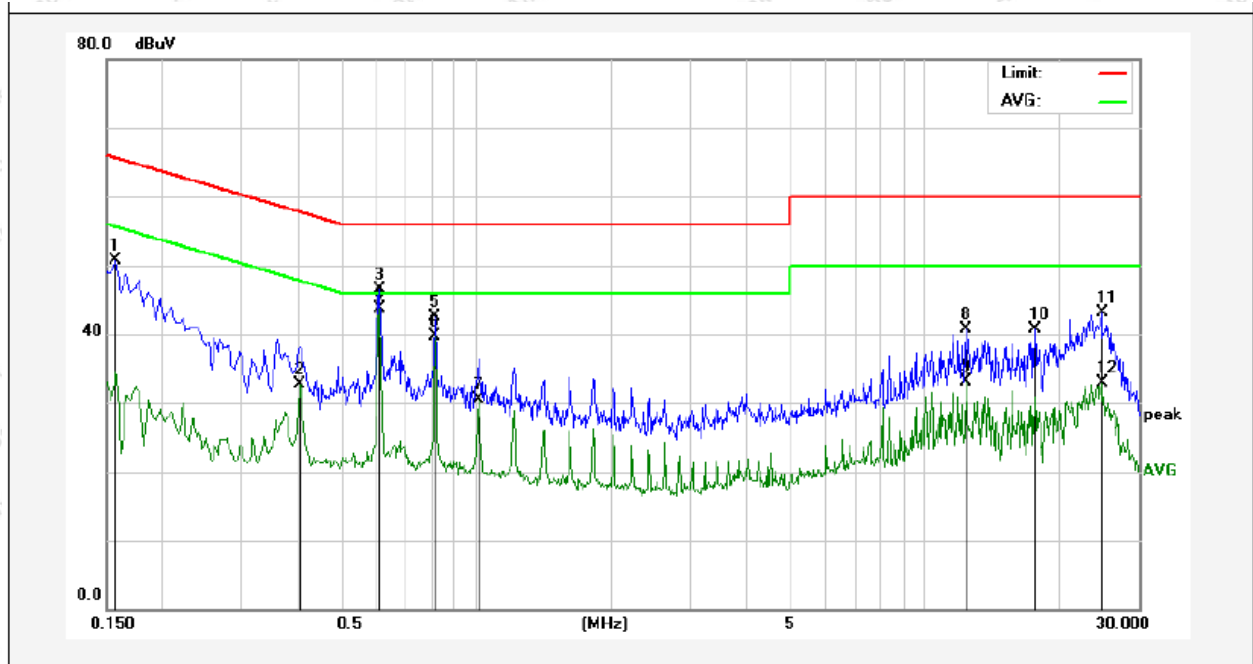
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 23.5°C Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	30.68	19.90	50.58	65.99	-15.41	QP	
2	0.1819	27.47	19.90	47.37	64.39	-17.02	QP	
3	0.6100	26.22	20.01	46.23	56.00	-9.77	QP	
4	0.6100	23.75	20.01	43.76	46.00	-2.24	AVG	
5	0.8100	22.89	20.07	42.96	56.00	-13.04	QP	
6	0.8100	19.79	20.07	39.86	46.00	-6.14	AVG	
7	13.5780	16.21	20.28	36.49	50.00	-13.51	AVG	
8	14.0780	17.85	20.27	38.12	50.00	-11.88	AVG	
9	15.5860	21.08	20.27	41.35	60.00	-18.65	QP	
10	15.5860	16.41	20.27	36.68	50.00	-13.32	AVG	
11	23.9100	24.00	20.29	44.29	60.00	-15.71	QP	
12	23.9100	18.76	20.29	39.05	50.00	-10.95	AVG	

Conducted Emission Test Data

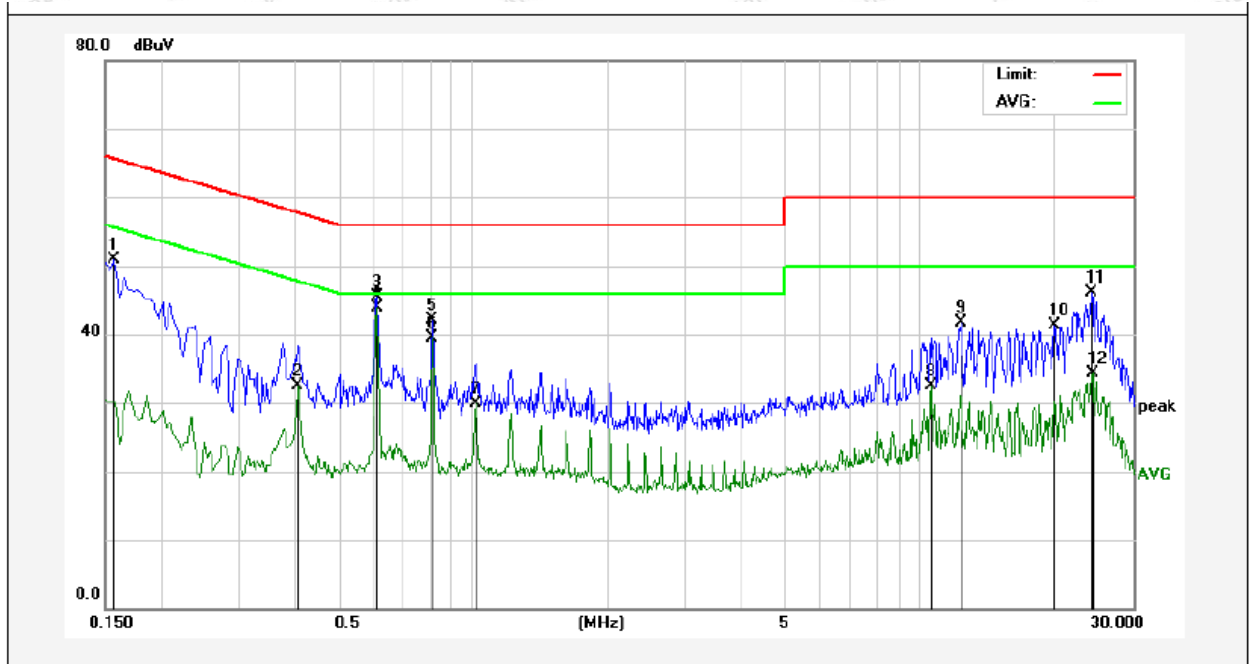
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 23.5°C Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1580	30.80	19.90	50.70	65.56	-14.86	QP	
2	0.4060	12.81	19.94	32.75	47.73	-14.98	AVG	
3	0.6100	26.47	20.01	46.48	56.00	-9.52	QP	
4	0.6100	23.74	20.01	43.75	46.00	-2.25	AVG	
5	0.8100	22.37	20.07	42.44	56.00	-13.56	QP	
6	0.8100	19.64	20.07	39.71	46.00	-6.29	AVG	
7	1.0140	10.39	20.12	30.51	46.00	-15.49	AVG	
8	12.3820	20.46	20.30	40.76	60.00	-19.24	QP	
9	12.3860	12.82	20.30	33.12	50.00	-16.88	AVG	
10	17.5780	20.41	20.30	40.71	60.00	-19.29	QP	
11	24.8819	22.82	20.28	43.10	60.00	-16.90	QP	
12	24.8819	12.66	20.28	32.94	50.00	-17.06	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.: 23.5°C Hum.: 56%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1580	30.99	19.90	50.89	65.56	-14.67	QP	
2	0.4060	12.57	19.94	32.51	47.73	-15.22	AVG	
3	0.6100	25.58	20.01	45.59	56.00	-10.41	QP	
4	0.6100	23.84	20.01	43.85	46.00	-2.15	AVG	
5	0.8100	22.12	20.07	42.19	56.00	-13.81	QP	
6	0.8100	19.53	20.07	39.60	46.00	-6.40	AVG	
7	1.0140	9.75	20.12	29.87	46.00	-16.13	AVG	
8	10.5780	12.13	20.33	32.46	50.00	-17.54	AVG	
9	12.3340	21.36	20.30	41.66	60.00	-18.34	QP	
10	19.9980	21.04	20.34	41.38	60.00	-18.62	QP	
11	24.2139	25.81	20.29	46.10	60.00	-13.90	QP	
12	24.3540	14.04	20.29	34.33	50.00	-15.67	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

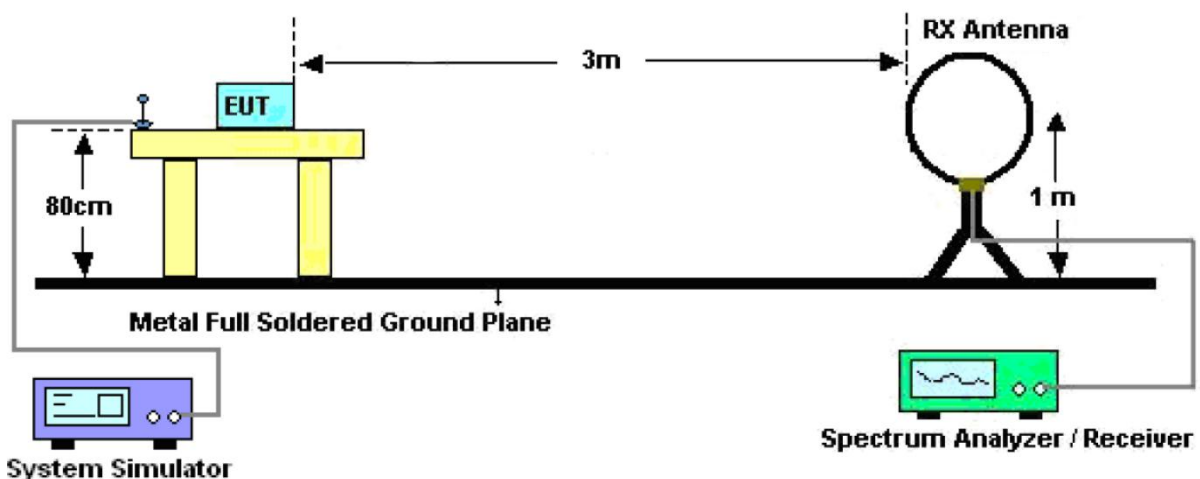


Figure 1. Below 30MHz

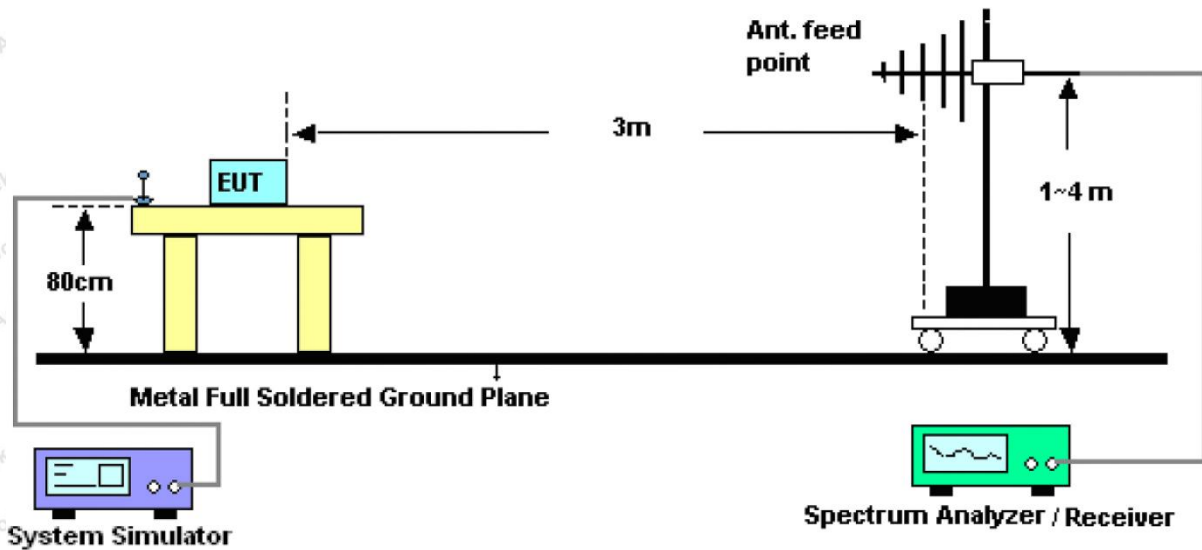


Figure 2. 30MHz to 1GHz

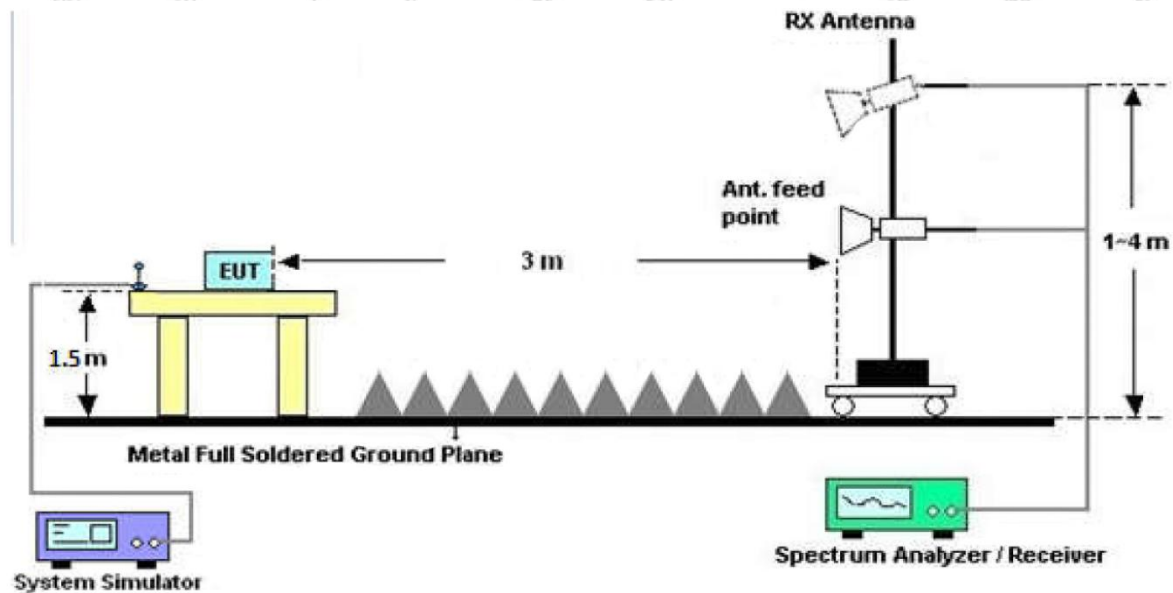


Figure 3. Above 1 GHz

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.: SZAWW181114002-01

Standard: FCC PART15 C _3m

Power Source: AC 120V, 60Hz for adapter

Test item: Radiation Test

Temp.(C)/Hum.(%RH): 24.7°C/51%RH

Test Mode: Mode 1

Distance: 3m

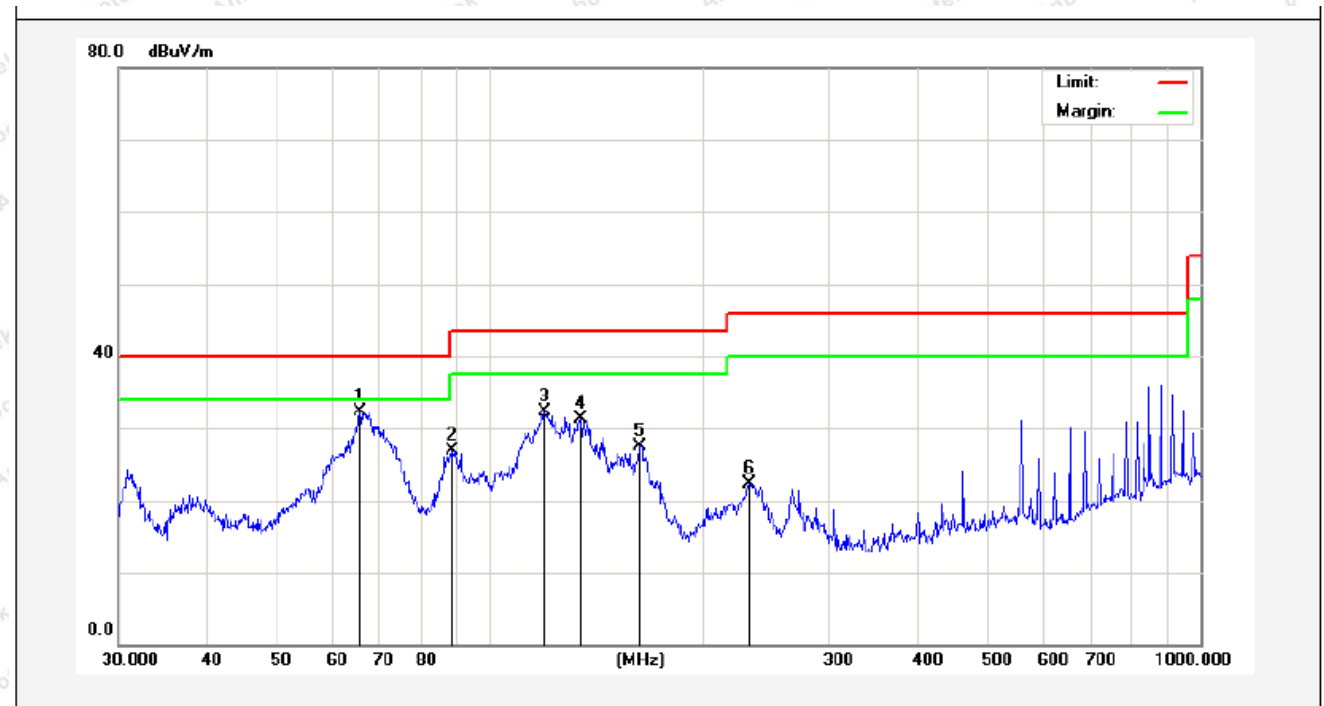


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0386	41.30	19.28	2.53	0	63.11	135.75	-72.64	Peak	53
0.0386	31.11	19.28	2.53	0	52.92	115.50	-62.58	AV	53
0.0451	35.38	19.28	2.53	0	57.19	134.40	-77.21	Peak	139
0.0451	26.18	19.28	2.53	0	47.99	114.40	-66.41	AV	139
0.0627	46.01	19.30	2.54	0	67.85	131.56	-63.71	Peak	351
0.0627	37.08	19.30	2.54	0	58.92	111.56	-52.64	AV	351
0.1282	61.32	19.53	2.59	0	83.44	125.38	-41.94	Peak	228
0.1282	50.36	19.53	2.59	0	72.48	105.38	-32.90	AV	228
0.2199	43.27	19.53	2.59	0	65.39	120.72	-55.33	Peak	85
0.2199	35.34	19.53	2.59	0	57.46	100.72	-43.26	AV	85
0.6895	24.07	20.34	2.59	0	47.00	70.83	-23.83	QP	309

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.

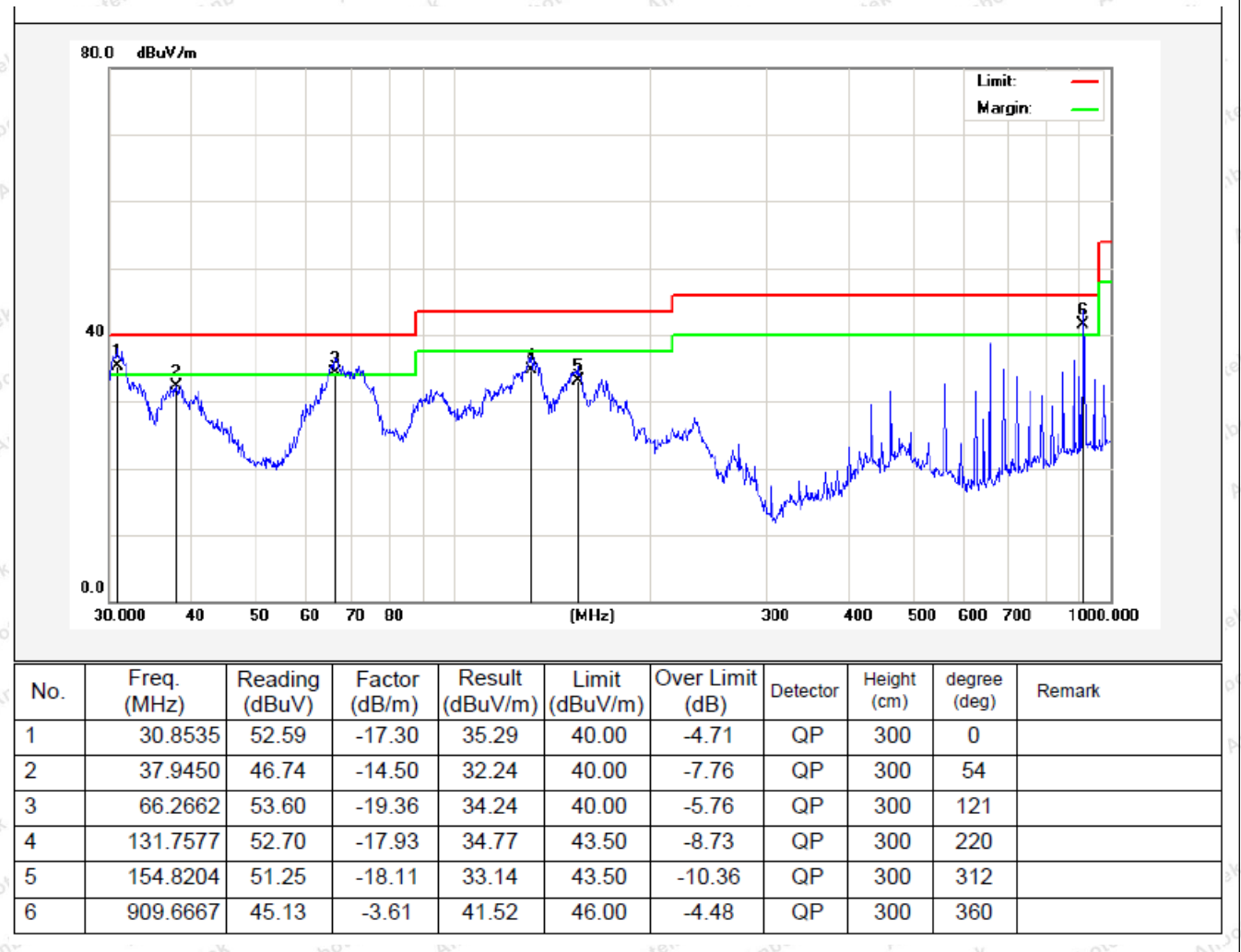
(Between 30MHz -1000 MHz)

Job No.:	SZAWW181114002-01	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

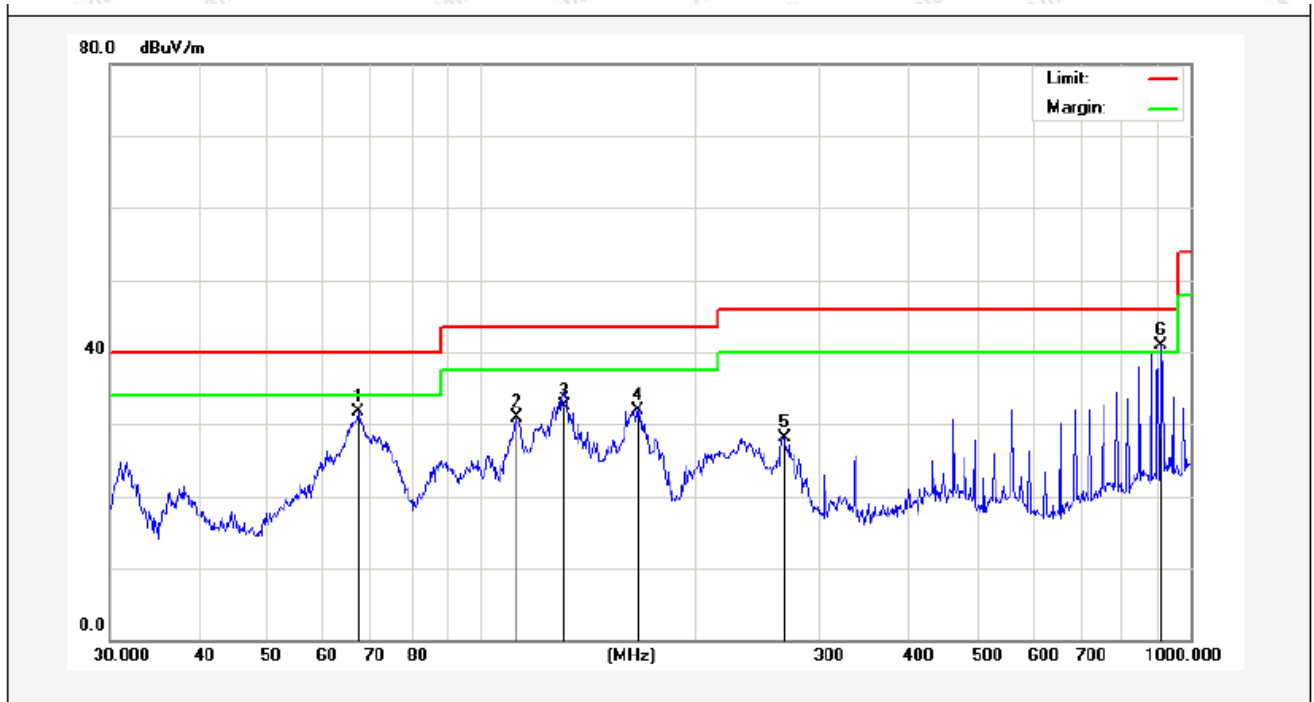


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	65.5727	52.38	-20.10	32.28	40.00	-7.72	QP	300	0	
2	88.6524	50.66	-23.66	27.00	43.50	-16.50	QP	300	44	
3	119.4361	54.62	-22.29	32.33	43.50	-11.17	QP	300	99	
4	134.0882	53.93	-22.62	31.31	43.50	-12.19	QP	300	151	
5	162.6106	49.05	-21.53	27.52	43.50	-15.98	QP	300	223	
6	231.7179	41.53	-19.24	22.29	46.00	-23.71	QP	300	360	

Job No.:	SZAWW181114002-01	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

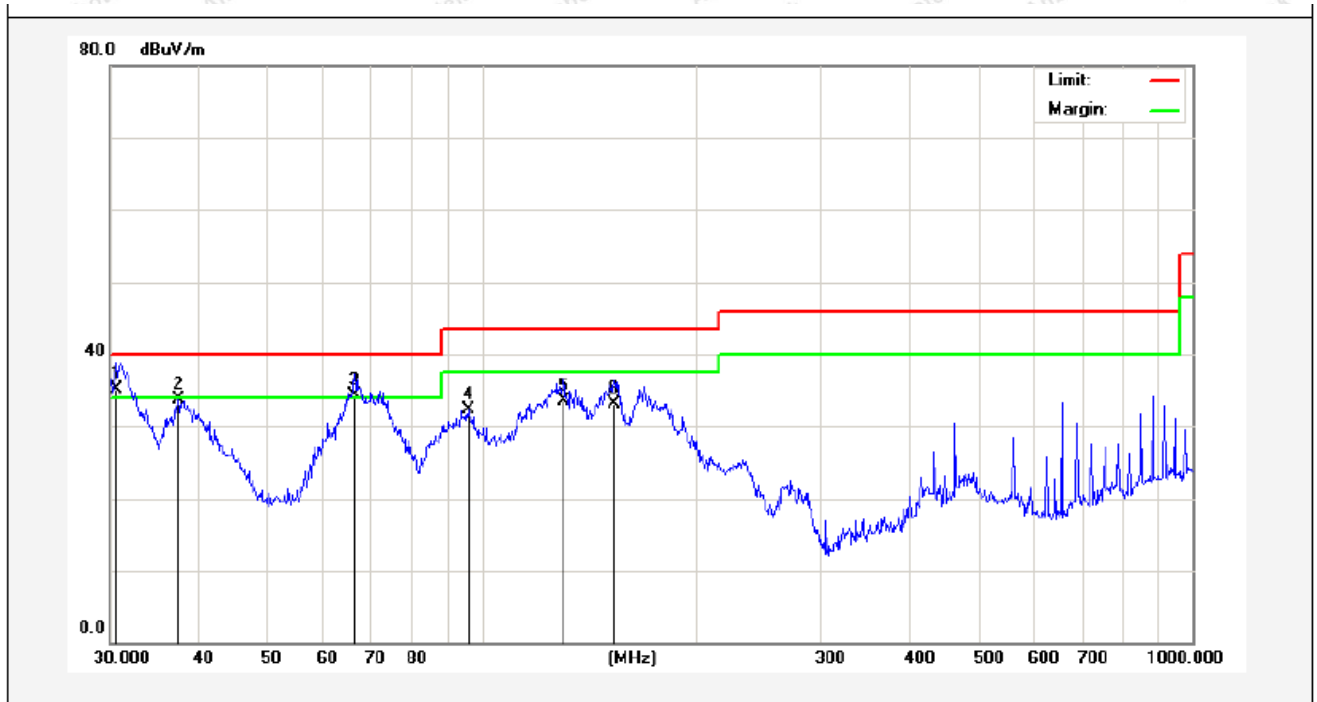


Job No.:	SZAWW181114002-01	Polarization:	Horizontal
Standard:	FCC PART15 C _3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3°C/56%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	67.2022	52.46	-20.74	31.72	40.00	-8.28	QP	300	0	
2	112.1305	52.60	-21.77	30.83	43.50	-12.67	QP	300	24	
3	130.8369	55.10	-22.69	32.41	43.50	-11.09	QP	300	96	
4	166.0680	53.07	-21.07	32.00	43.50	-11.50	QP	300	121	
5	267.5455	47.58	-19.38	28.20	46.00	-17.80	QP	300	226	
6	909.6667	45.51	-4.61	40.90	46.00	-5.10	QP	300	360	

Job No.:	SZAWW181114002-01	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	30.6878	52.52	-17.35	35.17	40.00	-4.83	QP	300	0	
2	37.4164	48.43	-14.77	33.66	40.00	-6.34	QP	300	24	
3	66.2661	53.63	-19.36	34.27	40.00	-5.73	QP	300	57	
4	95.7622	48.51	-16.15	32.36	43.50	-11.14	QP	300	112	
5	130.3788	51.41	-17.84	33.57	43.50	-9.93	QP	300	220	
6	153.7384	51.32	-18.17	33.15	43.50	-10.35	QP	300	360	

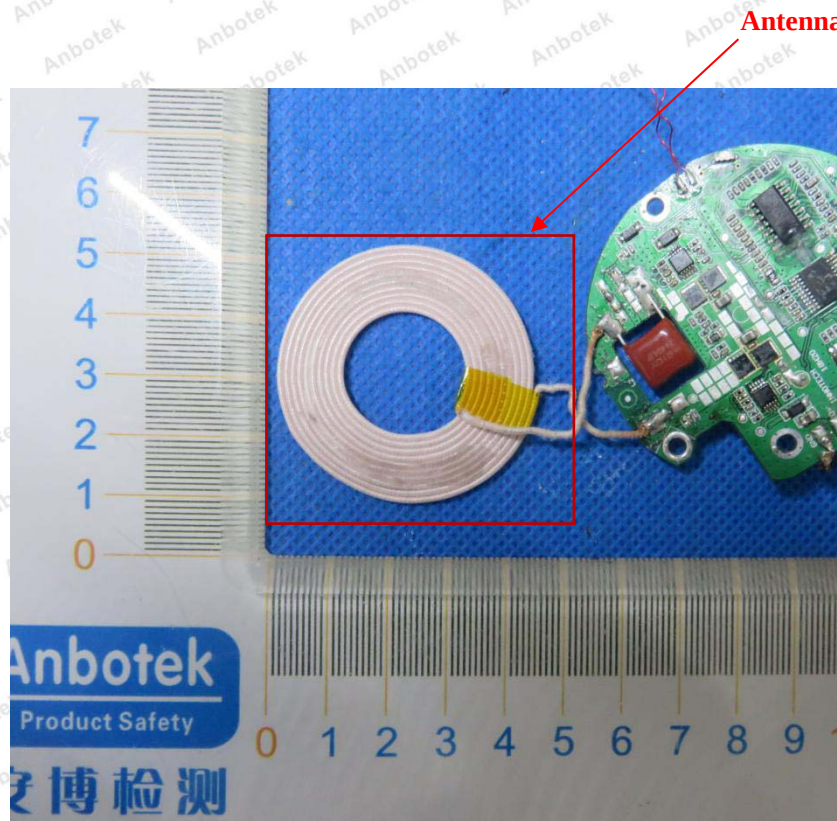
5. Antenna Requirement

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

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.

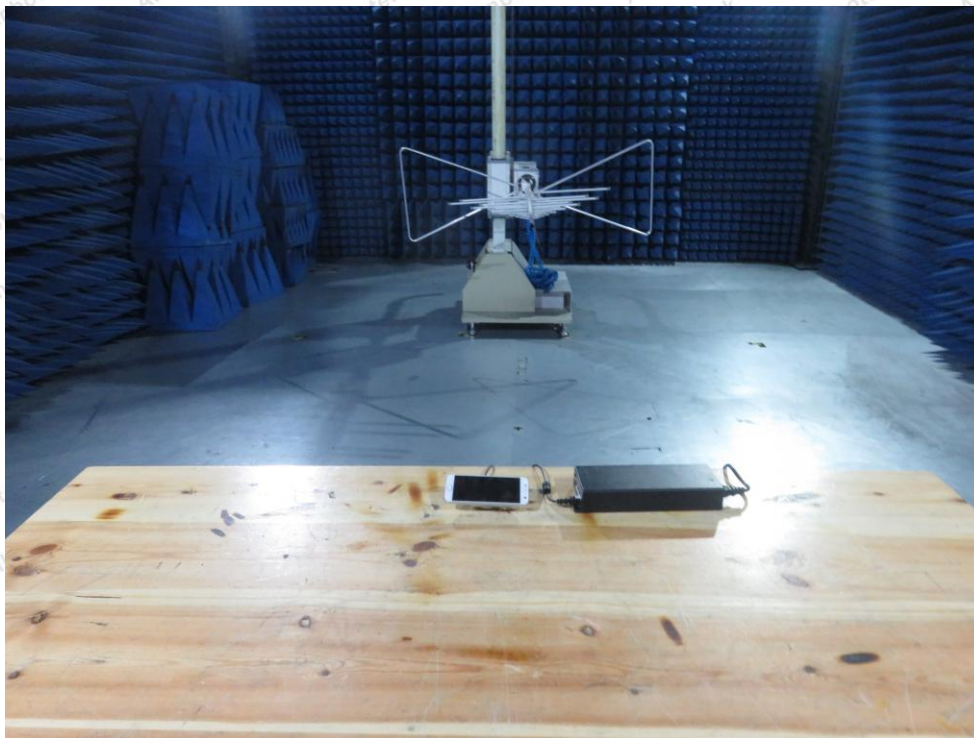


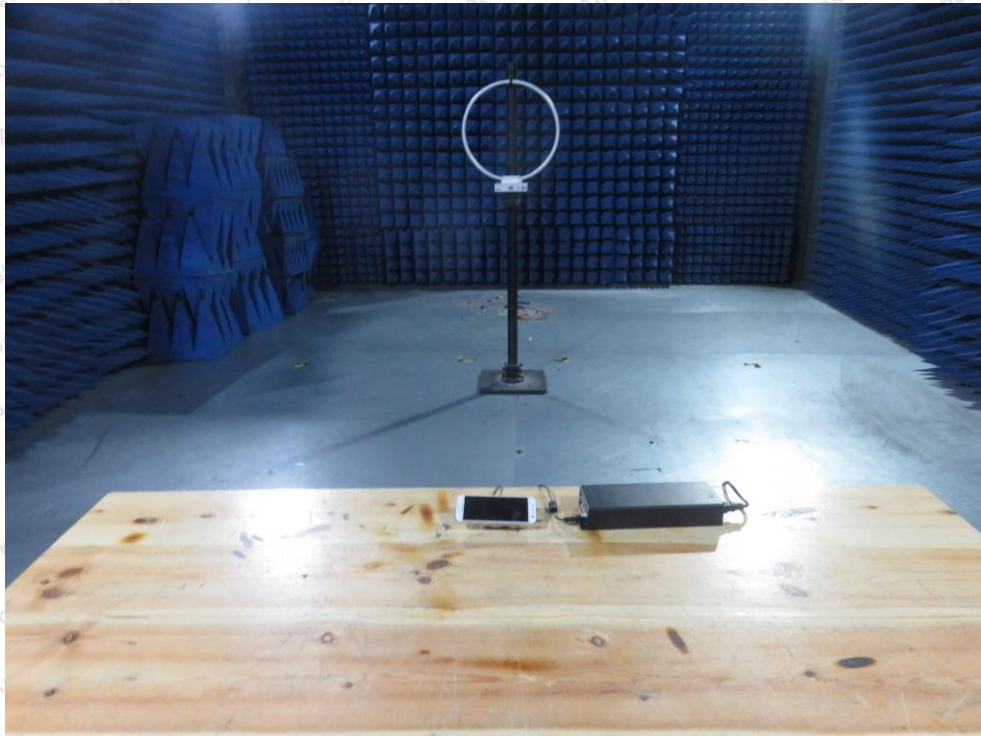
APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH

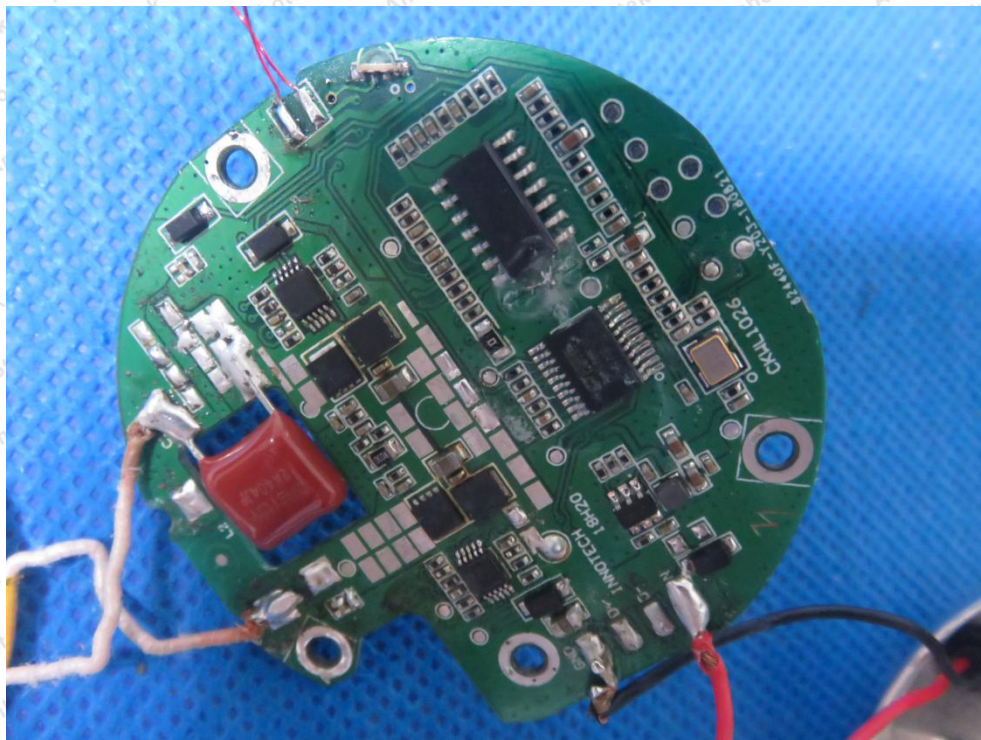
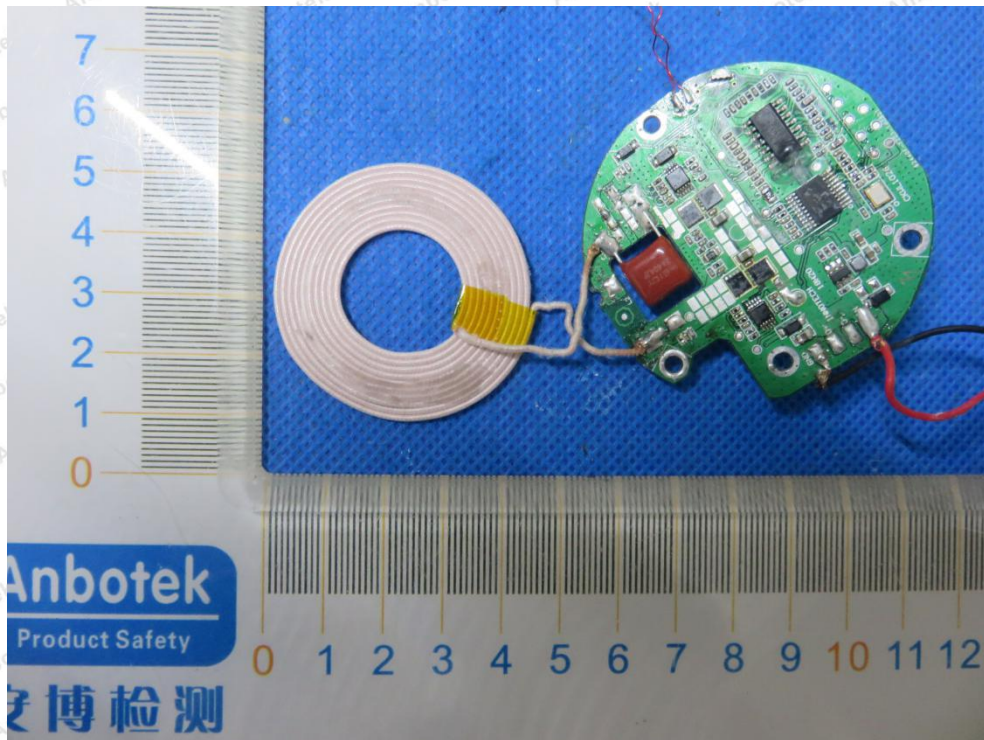






APPENDIX III -- INTERNAL PHOTOGRAPH





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