FCC TEST REPORT

Client Name	:	Shenzhen Tenghuiyuan Electronics Co., Ltd.
Address	:	5/F, Block C, Penglongpan Hi-technology Park, Dafu Ind. Zone, Guanlan, Longhua New Dist, Shenzhen, Guangdong, 518000, China
Product Name	:	Foldable Wireless Charger
Date	:	May 23, 2022

Shenzhen Anbotek Compliance Laboratory Limited

Contents

1. General Information 4
1.1. Client Information 4
1.2. Description of Device (EUT) 4
1.3. Auxiliary Equipment Used During Test 5
1.4. Description of Test Modes 5
1.5. Description Of Test Setup 7
1.6. Test Equipment List 8
1.7. Measurement Uncertainty 9
1.8. Description of Test Facility 9
2. Summary of Test Results 10
3. Conducted Emission Test 11
3.1. Test Standard and Limit 11
3.2. Test Setup 11
3.3. Test Procedure 11
3.4. Test Data 11
4. Radiation Spurious Emission 16
4.1. Test Standard and Limit 16
4.2. Test Setup 16
4.3. Test Procedure 17
4.4. Test Data 17
5. Antenna Requirement 22
5.1. Test Standard and Requirement 22
5.2. Antenna Connected Construction 22
APPENDIX I -- TEST SETUP PHOTOGRAPH 23
APPENDIX II -- EXTERNAL PHOTOGRAPH 25
APPENDIX III -- INTERNAL PHOTOGRAPH 31

TEST REPORT

Applicant	:	Shenzhen Tenghuiyuan Electronics Co., Ltd.
Manufacturer	:	Shenzhen Tenghuiyuan Electronics Co., Ltd.
Product Name	:	Foldable Wireless Charger
Model No.	:	S01-3
Trade Mark	:	CZNGY
Rating(s)	:	Input: DC 9V/2A Wireless 1 output: 15W/10W/7.5W/5W(for Phone) Wireless 2 output: 2.5W(for Watch) Wireless 3 output: 3W(for Earphone)
Test Standard(s)	**:**	**FCC Part15 Subpart C, Paragraph 15.209**
Test Method(s)	**:**	**ANSI C63.10: 2020**

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 Receipt	May 10, 2022
Date of Test	May 10~ 20, 2022
Prepared By	Nian xiu Chen (Nianxiu Chen)
Approved & Authorized Signer	Kingkong Jin (Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Tenghuiyuan Electronics Co., Ltd.
Address	:	5/F, Block C, Penglongpan Hi-technology Park, Dafu Ind. Zone, Guanlan, Longhua New Dist, Shenzhen, Guangdong, 518000, China
Manufacturer	:	Shenzhen Tenghuiyuan Electronics Co., Ltd.
Address	:	5/F, Block C, Penglongpan Hi-technology Park, Dafu Ind. Zone, Guanlan, Longhua New Dist, Shenzhen, Guangdong, 518000, China
Factory	:	Shenzhen Tenghuiyuan Electronics Co., Ltd.
Address	:	5/F, Block C, Penglongpan Hi-technology Park, Dafu Ind. Zone, Guanlan, Longhua New Dist, Shenzhen, Guangdong, 518000, China

1.2. Description of Device (EUT)

Product Name	:	Foldable Wireless Charger	
Model No.	:	S01-3	
Trade Mark	:	CZNGY	
Test Power Supply	:	AC 120V, 60Hz for adapter/ AC 240V, 60Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	110.1-205KHz for Phone and Earphone 127.7KHz for Watch
		Modulation Type:	ASK
		Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi (Provided by customer)
		Adapter:	N/A
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: MDY-11-EX Input: 100-240V~50/60Hz, 07A Output: 5V⎓3A/ 9V⎓3A/ 12V⎓2.25A/ 20V⎓1.35A/ 11V⎓3A Max
Wireless charging load	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd. M/N: CD2577 Power: 5W/7.5W/10W/15W Last Cal.: Oct. 26, 2021 Cal. Interval: 1 Year
Mobile Phone	:	iPhone 12
Apple Watch	:	M/N: WR-50M

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	Wireless Charging Mode (Watch+Mobile Phone+Wireless charging load)
Mode 2	Wireless Charging Mode (Watch+Wireless charging load)
Mode 3	Wireless Charging Mode (Mobile Phone+Wireless charging load)
Mode 4	Wireless Charging Mode(Watch+Mobile Phone)
Mode 5	Wireless Charging Mode(Wireless charging load)
Mode 6	Wireless Charging Mode(Apple Watch)
Mode 7	Wireless Charging Mode(Mobile Phone)

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
Hotline 400-003-0500
www.anbotek.com

For Conducted Emission	
Final Test Mode	Description
Mode 1	Wireless Charging Mode (Watch+Mobile Phone+Wireless charging load)
Mode 2	Wireless Charging Mode (Watch+Wireless charging load)
Mode 3	Wireless Charging Mode (Mobile Phone+Wireless charging load)
Mode 4	Wireless Charging Mode(Watch+Mobile Phone)
Mode 5	Wireless Charging Mode(Wireless charging load)
Mode 6	Wireless Charging Mode(Apple Watch)
Mode 7	Wireless Charging Mode(Mobile Phone)

For Radiated Emission	
Final Test Mode	Description
Mode 1	Wireless Charging Mode (Watch+Mobile Phone+Wireless charging load)
Mode 2	Wireless Charging Mode (Watch+Wireless charging load)
Mode 3	Wireless Charging Mode (Mobile Phone+Wireless charging load)
Mode 4	Wireless Charging Mode(Watch+Mobile Phone)
Mode 5	Wireless Charging Mode(Wireless charging load)
Mode 6	Wireless Charging Mode(Apple Watch)
Mode 7	Wireless Charging Mode(Mobile Phone)

Note: (1)Test channel is 0.1277MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 20.5W) was recorded in the report.

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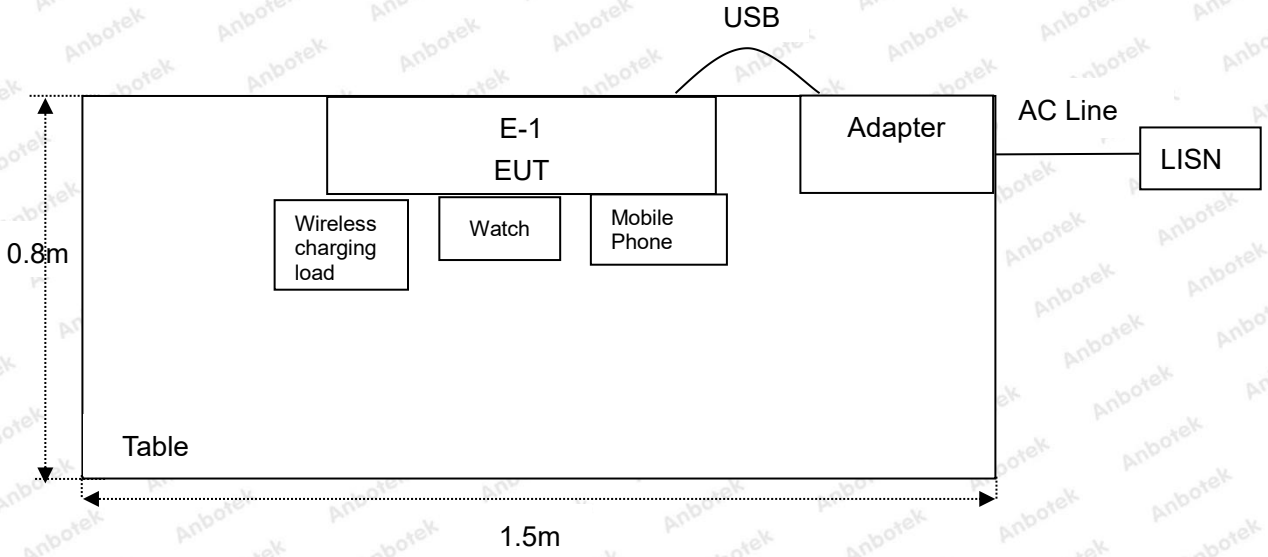
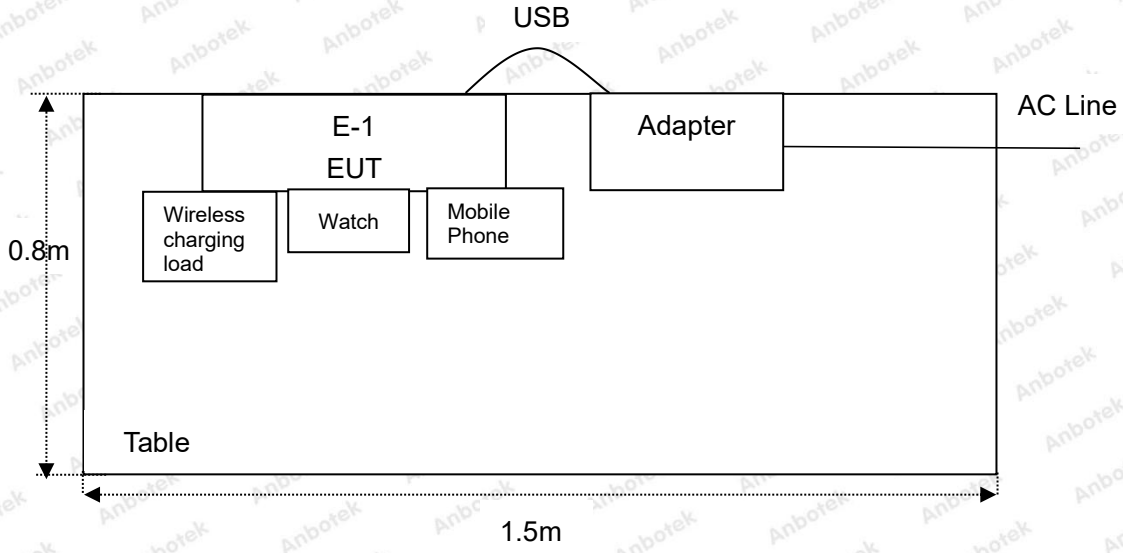
1.5. Description Of Test Setup

CE



RE



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul 05, 2021	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 22, 2021	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Oct. 22, 2021	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 22, 2021	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 22, 2021	2 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Oct. 22, 2021	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 22, 2021	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	Oct. 22, 2021	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 22, 2021	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 22, 2021	1 Year
16.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 22, 2021	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 22, 2021	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 22, 2021	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2021	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 22, 2021	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 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.

ISED-Registration No.: 8058A

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.

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

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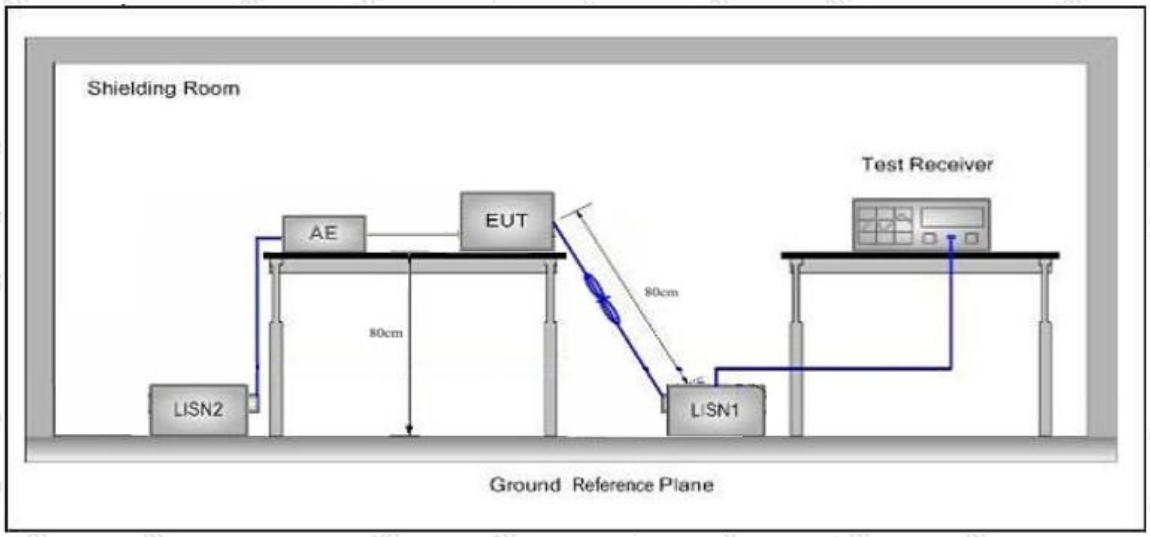
www.anbotek.com

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 C63.10-2020 on Conducted Emission Measurement.

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

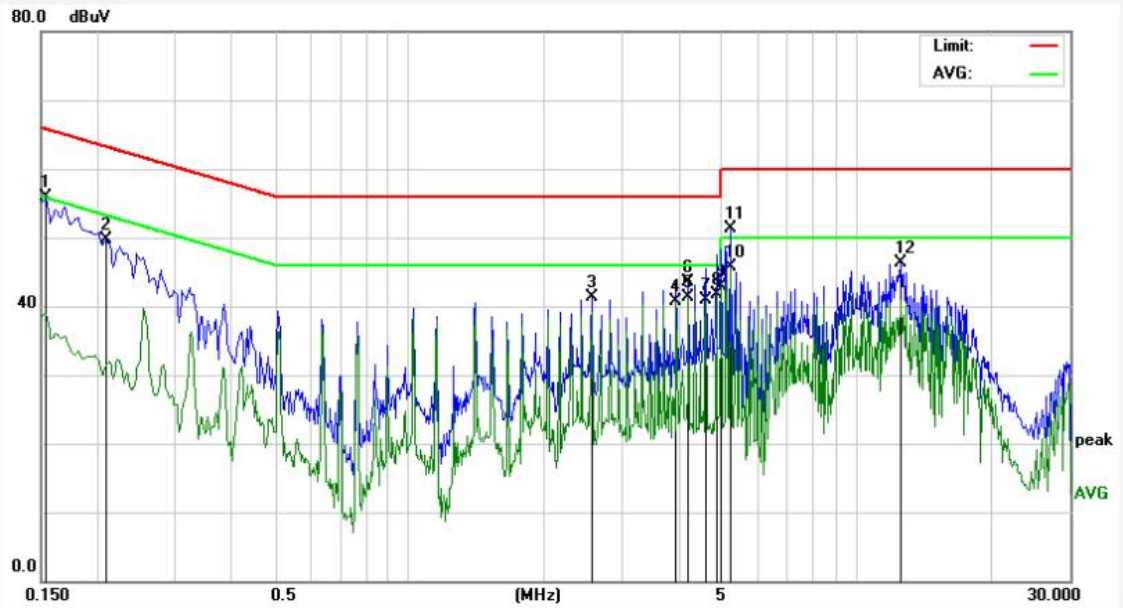
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

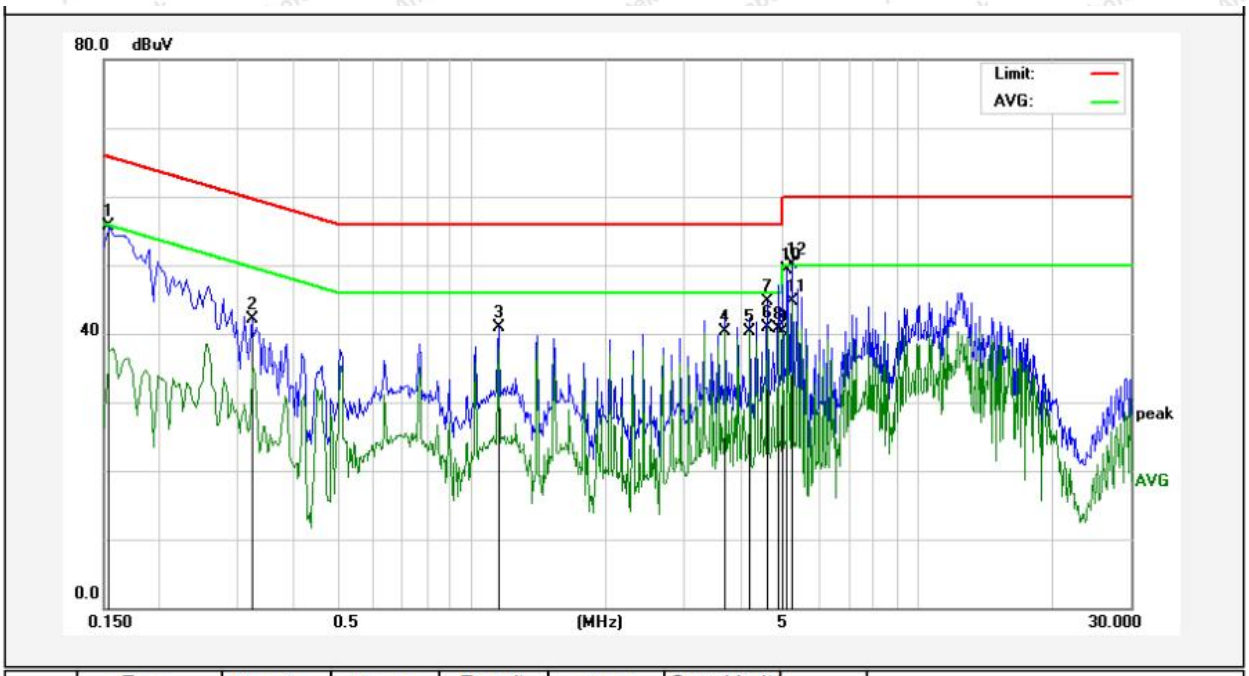
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 23.5℃ Hum.: 46%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	55.72	0.12	55.84	65.78	-9.94	QP	
2	0.2100	49.60	0.12	49.72	63.20	-13.48	QP	
3	2.5540	41.11	0.12	41.23	56.00	-14.77	QP	
4	3.9580	40.57	0.12	40.69	46.00	-5.31	AVG	
5	4.2138	41.10	0.11	41.21	46.00	-4.79	AVG	
6	4.2140	43.38	0.11	43.49	56.00	-12.51	QP	
7	4.5979	40.84	0.11	40.95	46.00	-5.05	AVG	
8	4.8539	41.69	0.11	41.80	46.00	-4.20	AVG	
9	4.9818	42.70	0.11	42.81	46.00	-3.19	AVG	
10	5.2378	45.57	0.11	45.68	50.00	-4.32	AVG	
11	5.2380	51.23	0.11	51.34	60.00	-8.66	QP	
12	12.5219	46.19	0.15	46.34	60.00	-13.66	QP	

Conducted Emission Test Data

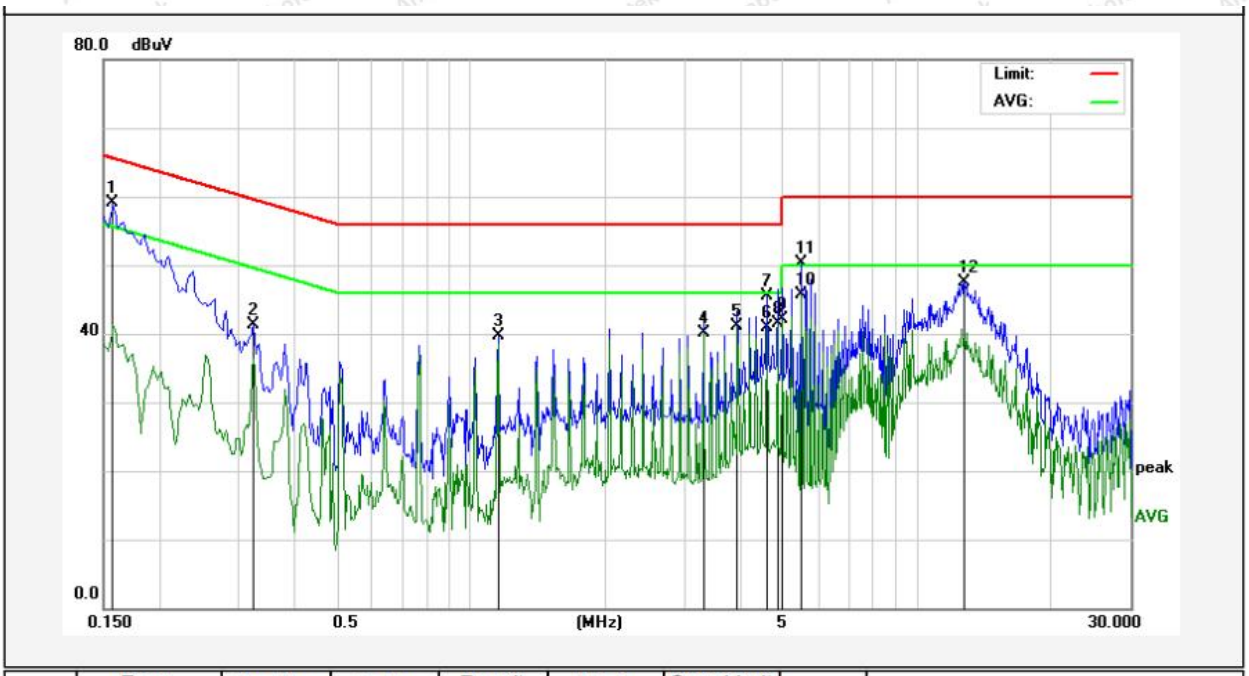
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 23.5℃ Hum.: 46%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	55.67	0.12	55.79	65.78	-9.99	QP	
2	0.3220	42.07	0.13	42.20	59.65	-17.45	QP	
3	1.1500	40.68	0.15	40.83	56.00	-15.17	QP	
4	3.7059	40.11	0.12	40.23	46.00	-5.77	AVG	
5	4.2179	40.27	0.11	40.38	46.00	-5.62	AVG	
6	4.6017	40.82	0.11	40.93	46.00	-5.07	AVG	
7	4.6019	44.60	0.11	44.71	56.00	-11.29	QP	
8	4.8539	40.63	0.11	40.74	46.00	-5.26	AVG	
9	4.9818	40.25	0.11	40.36	46.00	-5.64	AVG	
10	5.1099	49.22	0.11	49.33	60.00	-10.67	QP	
11	5.2378	44.63	0.11	44.74	50.00	-5.26	AVG	
12	5.2379	49.98	0.11	50.09	60.00	-9.91	QP	

Conducted Emission Test Data

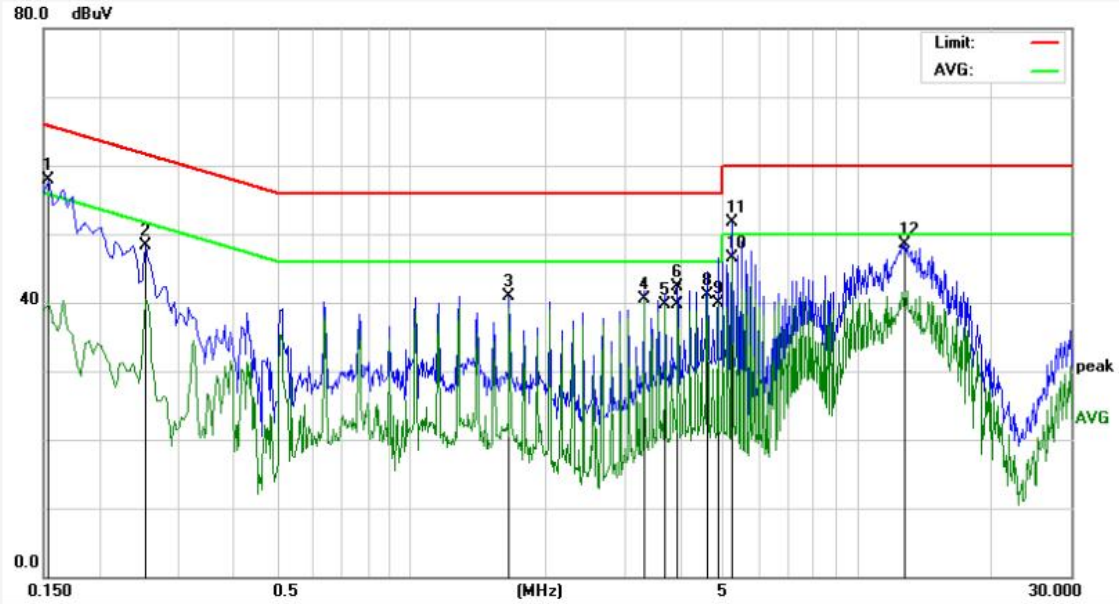
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 23.5℃ Hum.: 46%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	59.00	0.12	59.12	65.56	-6.44	QP	
2	0.3260	41.28	0.12	41.40	59.55	-18.15	QP	
3	1.1500	39.61	0.15	39.76	56.00	-16.24	QP	
4	3.3220	39.98	0.12	40.10	46.00	-5.90	AVG	
5	3.9620	41.00	0.12	41.12	46.00	-4.88	AVG	
6	4.6017	40.77	0.11	40.88	46.00	-5.12	AVG	
7	4.6020	45.37	0.11	45.48	56.00	-10.52	QP	
8	4.8578	41.41	0.11	41.52	46.00	-4.48	AVG	
9	4.9858	42.05	0.11	42.16	46.00	-3.84	AVG	
10	5.4939	45.54	0.11	45.65	50.00	-4.35	AVG	
11	5.4940	50.27	0.11	50.38	60.00	-9.62	QP	
12	12.7820	47.44	0.15	47.59	60.00	-12.41	QP	

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℃ Hum.: 46%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	57.73	0.12	57.85	65.78	-7.93	QP	
2	0.2540	48.10	0.13	48.23	61.62	-13.39	QP	
3	1.6620	40.74	0.13	40.87	56.00	-15.13	QP	
4	3.3220	40.35	0.12	40.47	46.00	-5.53	AVG	
5	3.7059	39.49	0.12	39.61	46.00	-6.39	AVG	
6	3.9620	42.22	0.12	42.34	56.00	-13.66	QP	
7	3.9620	39.66	0.12	39.78	46.00	-6.22	AVG	
8	4.5979	41.02	0.11	41.13	46.00	-4.87	AVG	
9	4.8578	39.86	0.11	39.97	46.00	-6.03	AVG	
10	5.2378	46.45	0.11	46.56	50.00	-3.44	AVG	
11	5.2379	51.52	0.11	51.63	60.00	-8.37	QP	
12	12.7779	48.33	0.15	48.48	60.00	-11.52	QP	

4. Radiation Spurious Emission

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

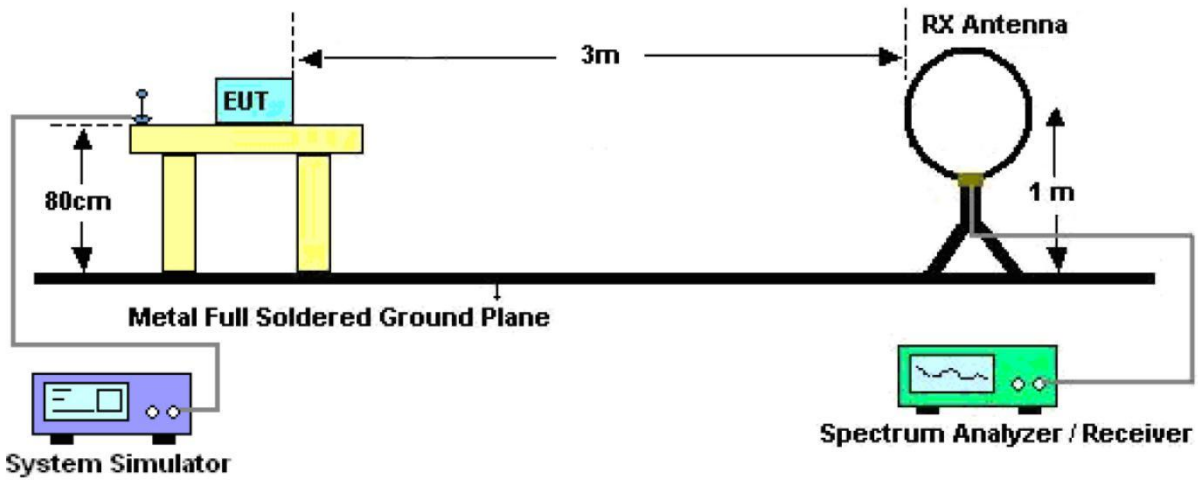


Figure 1. Below 30MHz

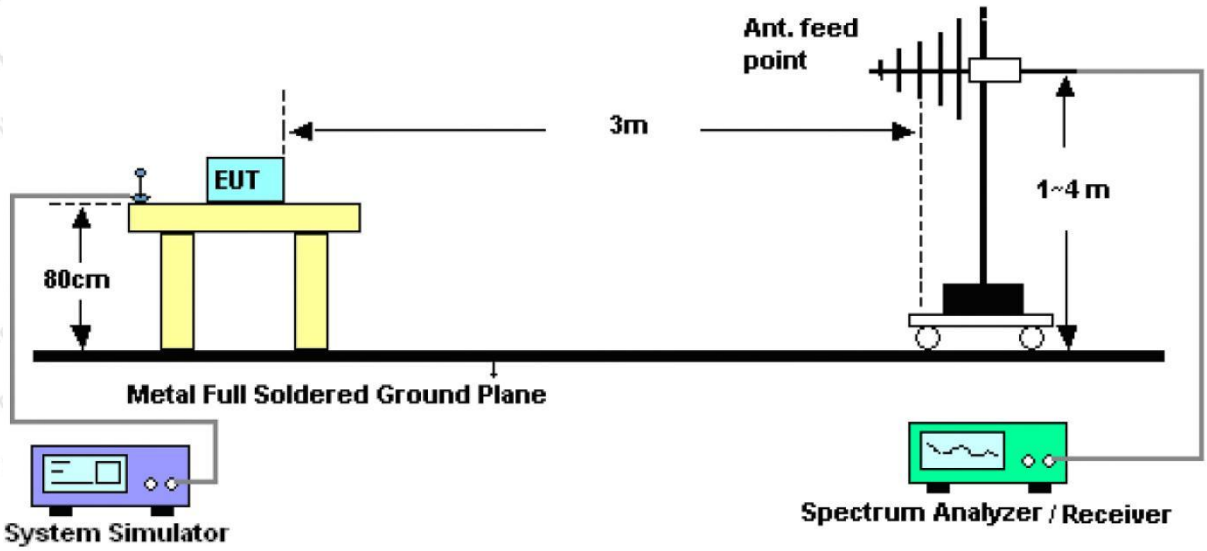


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m 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

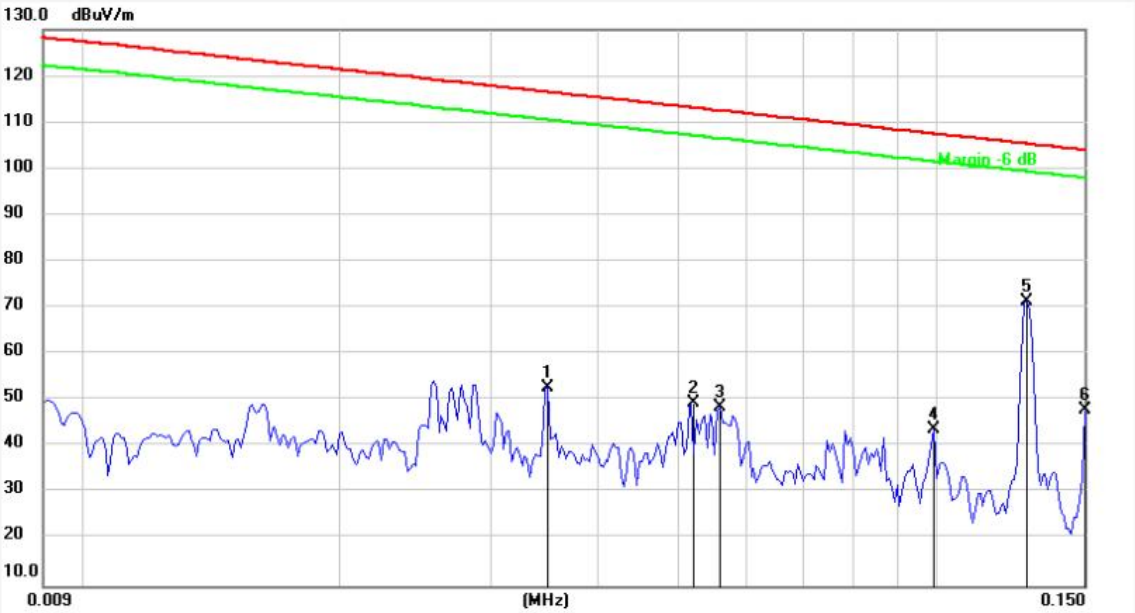
PASS

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

Test Results

(Between 9KHz – 30MHz)

Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.6℃/48%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0350	32.17	20.49	52.66	116.58	-63.92	QP			
2	0.0519	29.02	20.39	49.41	113.18	-63.77	QP			
3	0.0560	28.17	20.35	48.52	112.52	-64.00	QP			
4	0.0995	23.40	20.29	43.69	107.56	-63.87	QP			
5	0.1277	50.93	20.34	71.27	105.35	-34.08	QP			
6	0.1500	27.70	20.33	48.03	104.02	-55.99	QP			

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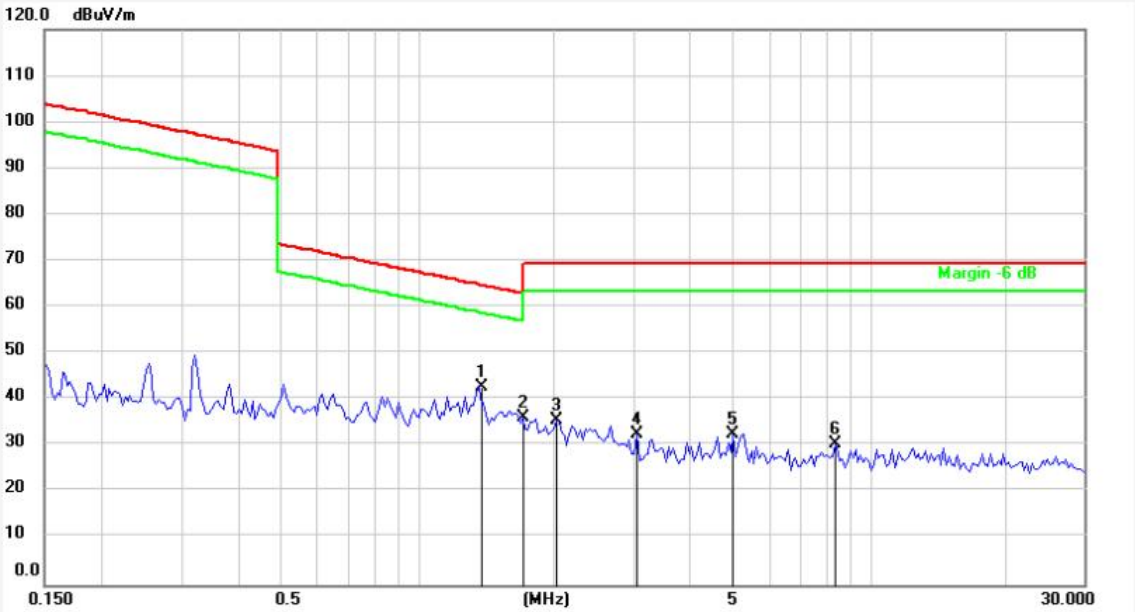


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	1.3702	22.40	20.26	42.66	64.89	-22.23	QP			
2	1.7157	15.89	20.27	36.16	69.50	-33.34	QP			
3	2.0386	15.26	20.28	35.54	69.50	-33.96	QP			
4	3.0737	12.36	20.31	32.67	69.50	-36.83	QP			
5	5.0179	12.24	20.41	32.65	69.50	-36.85	QP			
6	8.4115	10.07	20.50	30.57	69.50	-38.93	QP			

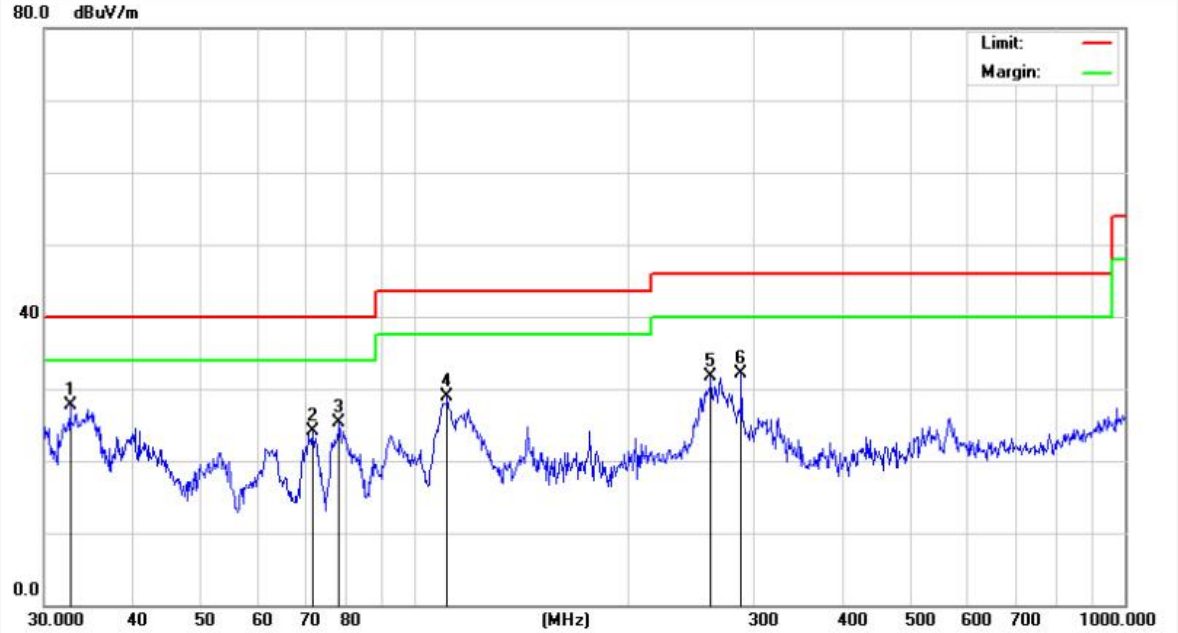
Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

(Between 30MHz –1000 MHz)

Standard:	FCC PART15 C _3m	Polarization:	Horizontal
Test item:	Radiation Test	Power Source:	AC 120V, 60Hz for adapter
Test Mode:	Mode 1	Temp.(C)/Hum.(%RH):	24.1℃/48%RH
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	77.5928	53.87	-22.70	31.17	40.00	-8.83	QP			
2	176.2686	58.82	-23.33	35.49	43.50	-8.01	QP			
3	204.2377	52.71	-22.26	30.45	43.50	-13.05	QP			
4	257.4222	56.37	-20.85	35.52	46.00	-10.48	QP			
5	269.4284	56.47	-19.82	36.65	46.00	-9.35	QP			
6	287.9904	52.72	-18.20	34.52	46.00	-11.48	QP			

Standard:	**FCC PART15 C _3m**	**Polarization:**	**Vertical**
Test item:	**Radiation Test**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test Mode:	**Mode 1**	**Temp.(C)/Hum.(%RH):**	**24.1℃/48%RH**
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	32.6340	45.27	-17.53	27.74	40.00	-12.26	QP			
2	71.5806	44.05	-19.94	24.11	40.00	-15.89	QP			
3	78.1389	44.81	-19.52	25.29	40.00	-14.71	QP			
4	110.9571	47.19	-18.35	28.84	43.50	-14.66	QP			
5	261.0583	49.29	-17.56	31.73	46.00	-14.27	QP			
6	287.9904	48.68	-16.67	32.01	46.00	-13.99	QP			

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

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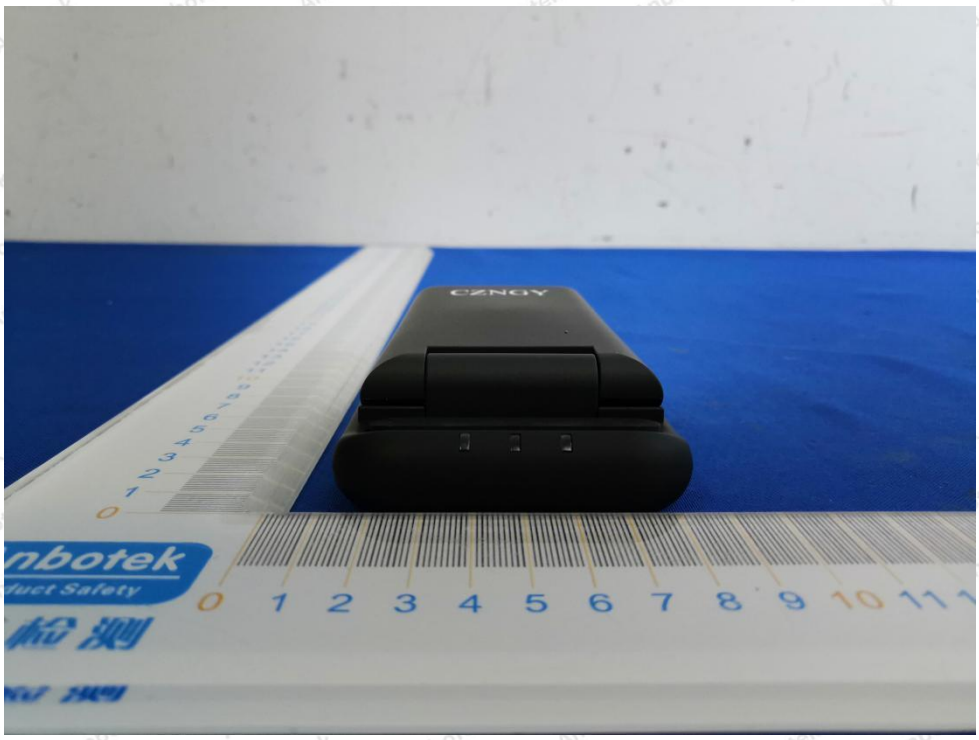
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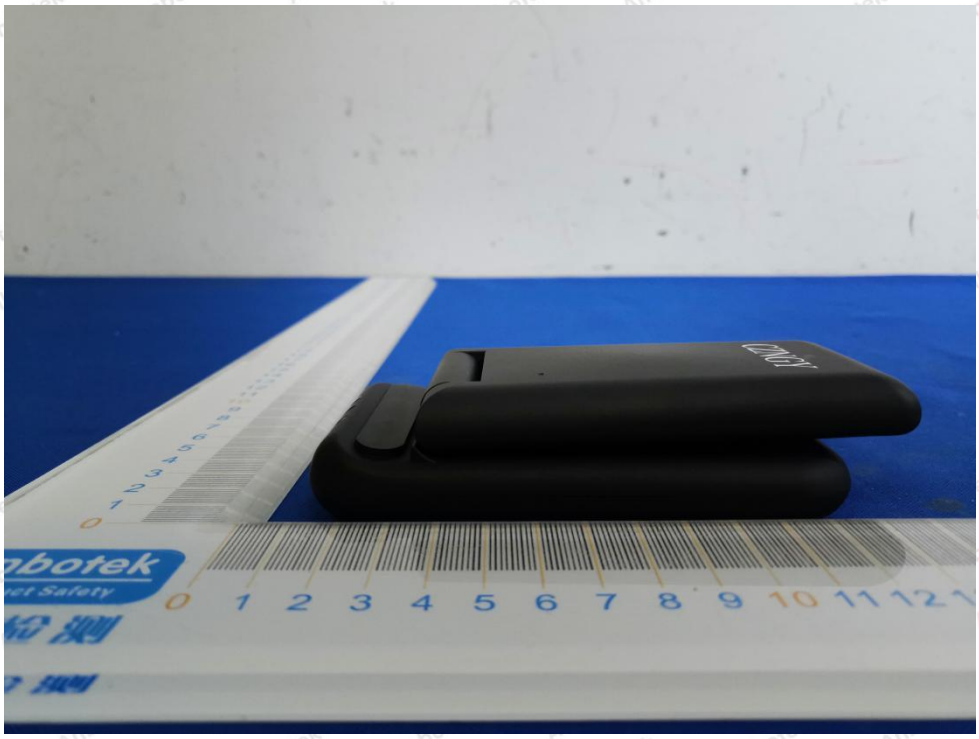

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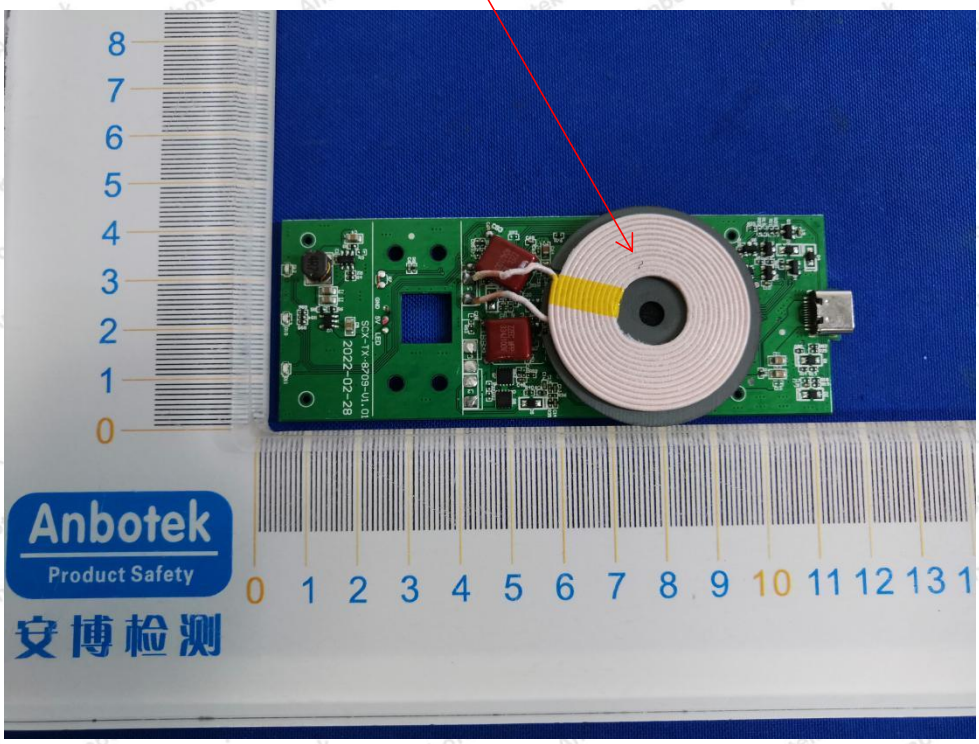
3 in 1 Wireless Charger

APPENDIX III -- INTERNAL PHOTOGRAPH

ANT for Phone

ANT for Watch

ANT for Earphone



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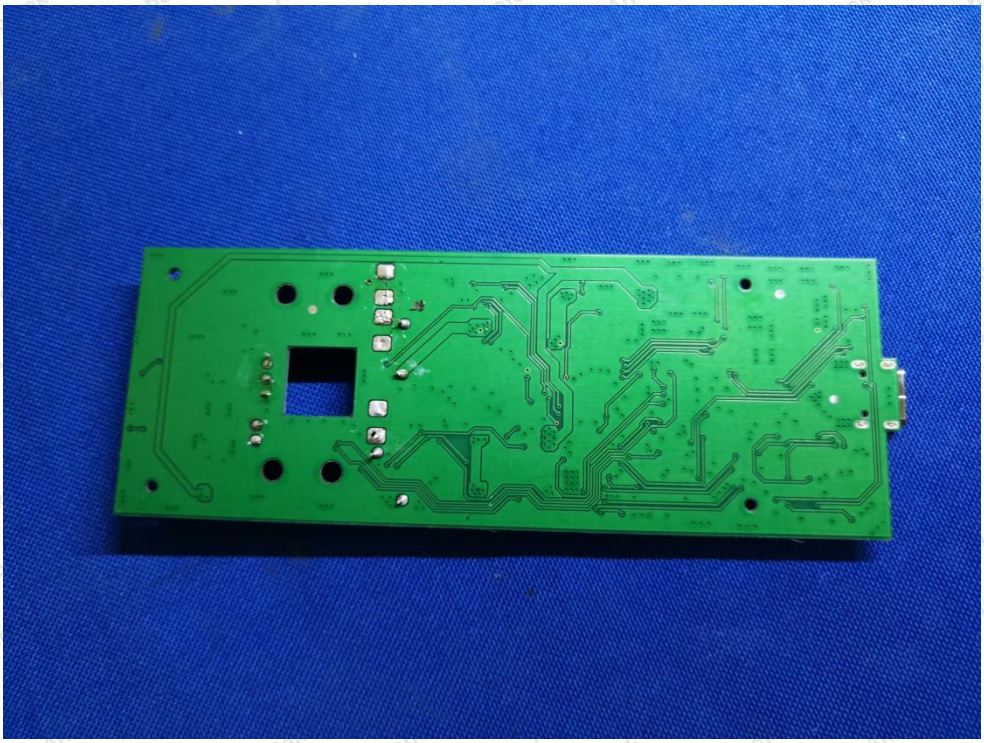
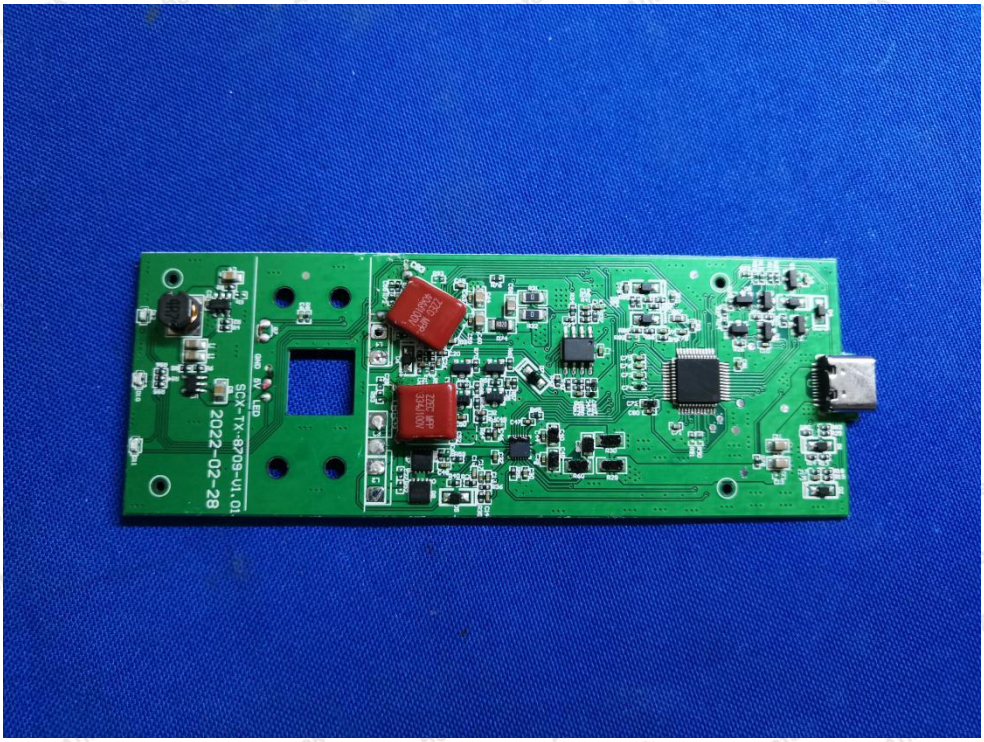
安博检测





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