ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Magnetic Wireless Power Bank

Model No.: WP-1023A-Z1, WP-1023A, WP-1013AMW, WP-523A, WP-523A01, WP-20AL, WP-1024A, WP-524A, WP-525A, WP-1025A, WP-523AMW

Trademark: N/A

FCC ID: 2AW54-WP-1023A-Z1

Report No.: E01A22040689F00601

Issue Date: June 07, 2022

Prepared for

Shenzhen Blue Times Technology Co., Ltd

B Block, Taixinglong Technology Zone, Hezhou, Xixiang Town,Bao-an District, Shenzhen, Guangdong Province 518126,P,R,China

Prepared by

Dong Guan Anci Electronic Technology Co., Ltd.

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VERIFICATION OF COMPLIANCE

Applicant:	Shenzhen Blue Times Technology Co., Ltd B Block, Taixinglong Technology Zone, Hezhou, Xixiang Town,Bao-an District, Shenzhen, Guangdong Province 518126,P,R,China
Manufacturer:	Shenzhen Blue Times Technology Co., Ltd B Block, Taixinglong Technology Zone, Hezhou, Xixiang Town,Bao-an District, Shenzhen, Guangdong Province 518126,P,R,China
Product Description:	Magnetic Wireless Power Bank
Trade Mark:	N/A
Model Number:	WP-1023A-Z1, WP-1023A, WP-1013AMW, WP-523A, WP-523A01, WP-20AL, WP-1024A, WP-524A, WP-525A, WP-1025A, WP-523AMW (Note: All models are the same, except the model name.)

We hereby certify that:

The above equipment was tested by Dong Guan Anci Electronic Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.209(2020).

Date of Test : May 23, 2022 to June 07, 2022

Prepared by : Tiger Xu/Supervisor

Reviewer & Authorized Signer : Tomas Yang /Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A22040689F00601

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Magnetic Wireless Power Bank
Model number	WP-1023A-Z1
Operation Mode	Wireless Charging
Input Rating	5V⎓3A, 9V⎓2A(18W Max)
Power Supply	AC 120V/60Hz for adapter
Operating Frequency	110-205KHz
Wireless Charging Power	10W/7.5W/5W
Modulation Technique	ASK
Antenna Type	Induction coil

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2AW54-WP-1023A-Z1 filing to comply with the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description EMC Lab.	:	Accredited by CNAS, 2017.06.26 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L6214. Accredited by A2LA, 2018.03.15 The Certificate Number is 4422.01.
Name of Firm	:	Dong Guan Anci Electronic Technology Co., Ltd.
Site Location	:	1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-tech Industrial Development Zone, Dongguan City,evelopment Zone, Dongguan City, Guangdong Pr., China.

2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the fixed in a particular direction according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

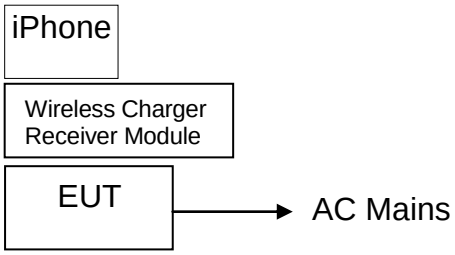


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Magnetic Wireless Power Bank	N/A	WP-1023A-Z1	2AW54-WP-1023A-Z1	***EUT***
2.	Adapter	UGREEN	Model:CD217 Input: AC 100-240V, 50/60Hz Output: DC 5V/3A, DC 9V/3A, DC 12V/2.5A	N/A	***Support EUT***
3.	SAMSUNG S9	SAMSUNG	Samsung Galaxy S9	N/A	***Support Equipment***
4.	Xiaomi 9	MI	Xiaomi 9	N/A	***Support Equipment***
5.	Wireless Charging Receiver Module	Universal	N/A	N/A	***Support Equipment***

Note:

(1) Unless otherwise denoted as EUT in『Remark』column, device(s) used in tested system is a support equipment.

3 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	AC Power Conducted Emission	Compliant
§15.209	Radiated Emission	Compliant
§2.1049	20dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

4 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Temperature	±0.5℃
Humidity	±3%

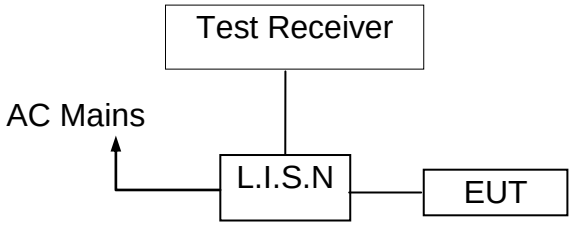
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%

5 Conducted Emissions Test

5.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2023-05-12
10 db attenuator	JFW	50FP-010-H4	4360846-427-1	2023-05-12
RF Cable	N/A	N/A	2#	2023-05-12
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2023-05-12

5.4 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

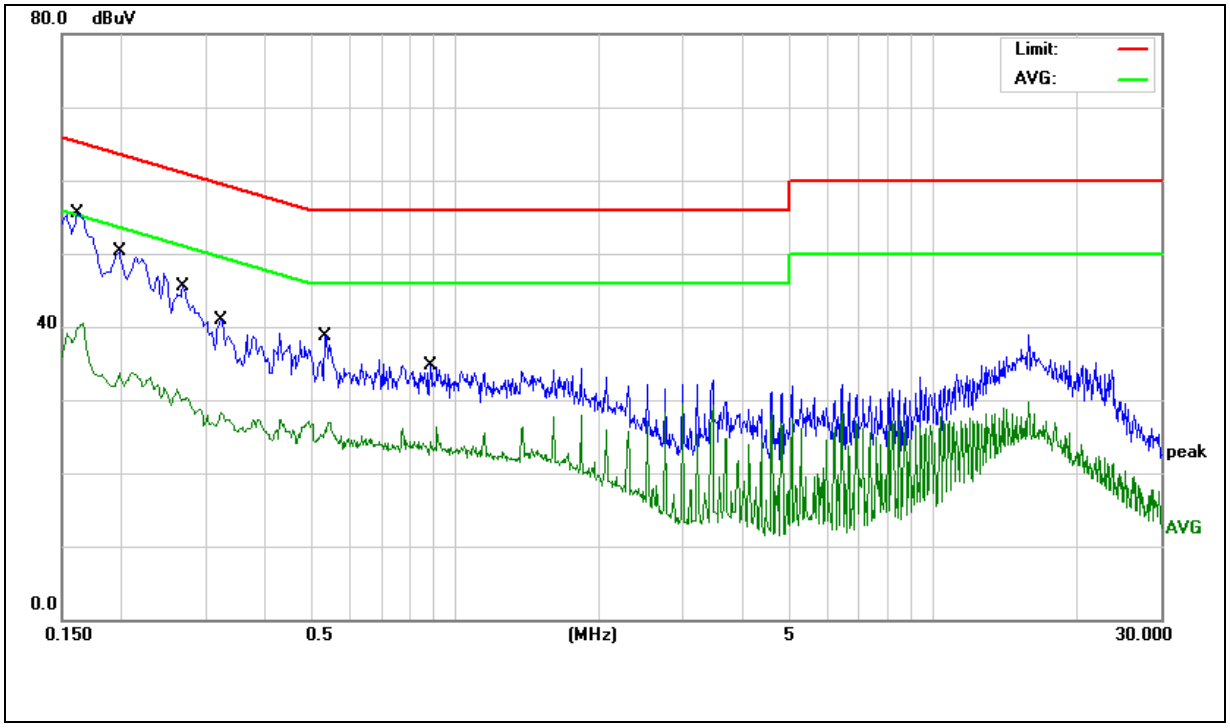
5.5 Measurement Result

Operation Mode:	TX	Test Date :	2022/05/25
Frequency Range:	0.15MHz~30MHz	Temperature :	22℃
Test Result:	PASS	Humidity :	55 %
Test By:	Best		

Pass

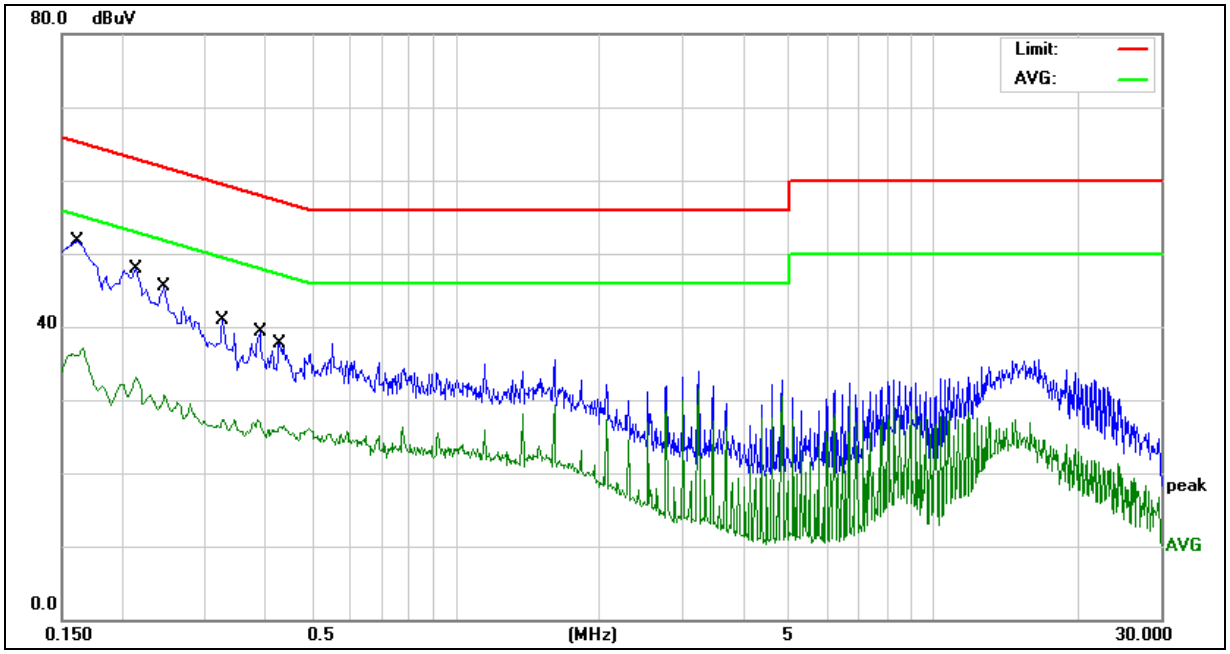
We pretested modes (Wireless Charging(10W) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 10W



Site:	**843**	**Phase:L1**	**Temperature(C):22**
Limit:	**FCC Part 18 C Conduction(QP)**		**Humidity(%RH):55**
EUT:	**Magnetic Wireless Power Bank**	**Test Time:**	**2022/05/25**
M/N.:	**HMF-50**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**Jack**
Note:			

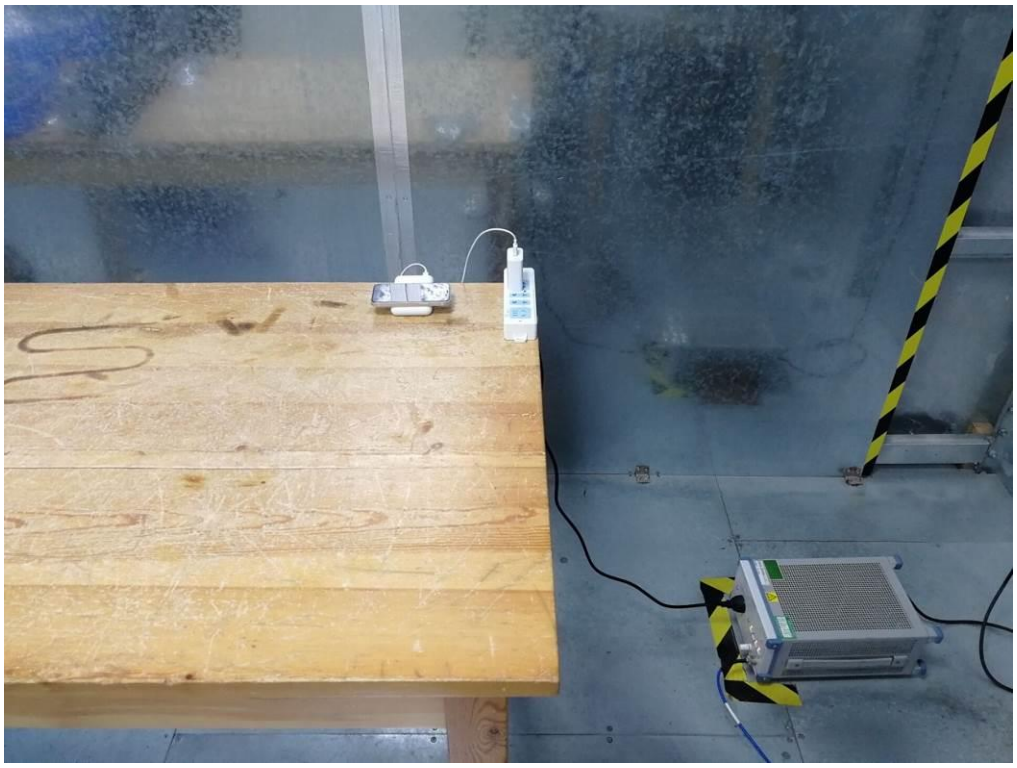
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1620	40.21	9.48	49.69	65.36	-15.67	QP	
2	0.1620	28.05	9.48	37.53	55.36	-17.83	AVG	
3	0.1980	33.74	9.47	43.21	63.69	-20.48	QP	
4	0.1980	22.11	9.47	31.58	53.69	-22.11	AVG	
5	0.2700	29.22	9.75	38.97	61.12	-22.15	QP	
6	0.2700	19.62	9.75	29.37	51.12	-21.75	AVG	
7	0.3220	24.38	9.67	34.05	59.65	-25.60	QP	
8	0.3220	16.80	9.67	26.47	49.65	-23.18	AVG	
9	0.5340	21.47	9.67	31.14	56.00	-24.86	QP	
10	0.5340	15.79	9.67	25.46	46.00	-20.54	AVG	
11	0.8860	18.63	9.80	28.43	56.00	-27.57	QP	
12	0.8860	13.50	9.80	23.30	46.00	-22.70	AVG	



Site:	**843**	**Phase:N**	**Temperature(C):22**
Limit:	**FCC Part 18 C Conduction(QP)**		**Humidity(%RH):55**
EUT:	**Magnetic Wireless Power Bank**	**Test Time:**	**2022/05/25**
M/N.:	**HMF-50**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1620	38.61	9.48	48.09	65.36	-17.27	QP	
2	0.1620	26.83	9.48	36.31	55.36	-19.05	AVG	
3	0.2140	32.58	9.54	42.12	63.04	-20.92	QP	
4	0.2140	21.47	9.54	31.01	53.04	-22.03	AVG	
5	0.2460	28.10	9.69	37.79	61.89	-24.10	QP	
6	0.2460	18.80	9.69	28.49	51.89	-23.40	AVG	
7	0.3260	23.57	9.65	33.22	59.55	-26.33	QP	
8	0.3260	16.39	9.65	26.04	49.55	-23.51	AVG	
9	0.3899	22.54	9.75	32.29	58.06	-25.77	QP	
10	0.3899	16.40	9.75	26.15	48.06	-21.91	AVG	
11	0.4300	21.84	9.78	31.62	57.25	-25.63	QP	
12	0.4300	16.28	9.78	26.06	47.25	-21.19	AVG	

5.6 Conducted Measurement Photo



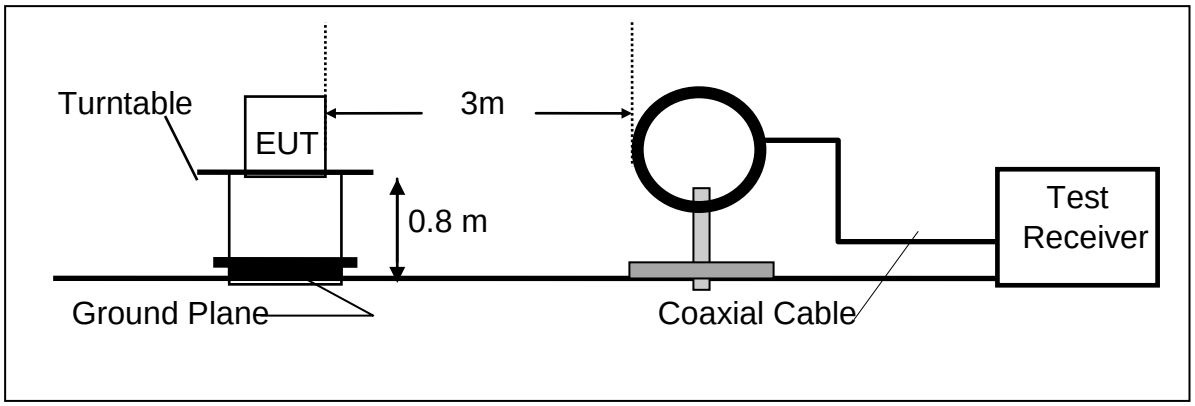
6 Radiated Emission Test

6.1 Measurement Procedure

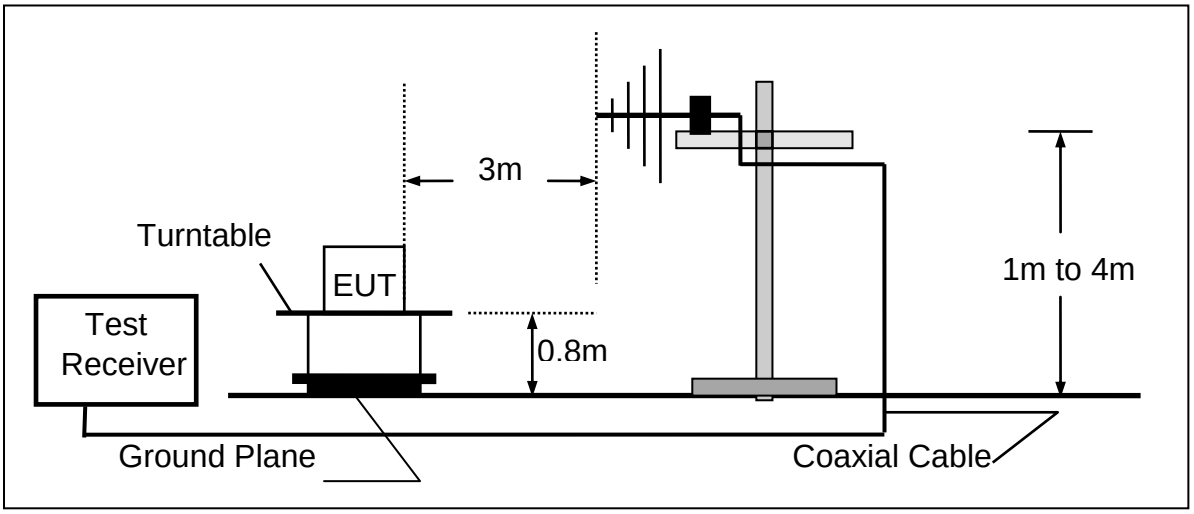
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3 Measurement Equipment Used

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1.	EMI Test Receiver	Rohde & Schwarz	ESPI	100502	2022/11/19
2.	Pre-Amplifier	HP	8447D	2727A06172	2023-05-12
3.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2023-05-12
4.	Loop Antenna	Schwarzbeck	FMZB 1516	1516-141	2022/11/19
5.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2022/11/19
6.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2022/11/19
7.	RF Cable	N/A	N/A	6#	2023-05-12
8.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2023-05-12
9.	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	N/A	N/A

6.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

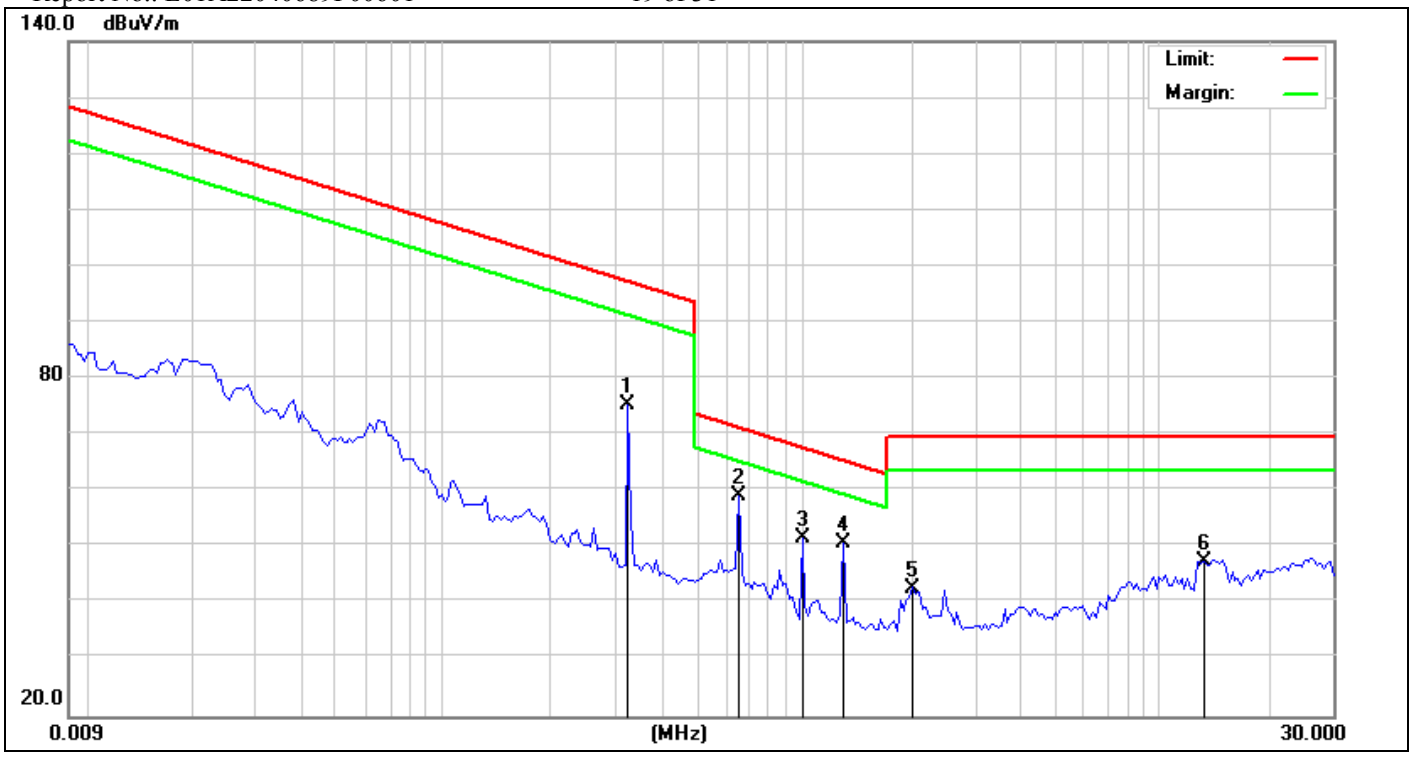
Remark: 1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

6.5 Measurement Result

We pretested modes (Wireless Charging(5W), Wireless Charging(7.5W), Wireless Charging(10W)) for EUT. The worst mode (Wireless Charging(5W)test data see follow the table.

Site:	**LAB**	**Antenna: Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Magnetic Wireless Power Bank**	**Test Time:**	**2022/05/25**
M/N.:	**HMF-50**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.3259	70.45	5.80	76.25	97.32	-21.07	QP	100	74	
2	0.6491	51.82	6.44	58.26	71.36	-13.10	QP	100	125	
3	0.9800	46.54	6.08	52.62	67.80	-15.18	QP	100	36	
4	1.3080	46.02	6.13	52.15	65.30	-13.15	QP	100	74	
5	2.2835	37.21	6.33	43.54	69.50	-25.96	QP	100	101	
6	14.7522	41.67	6.93	48.60	69.50	-20.90	QP	100	123	



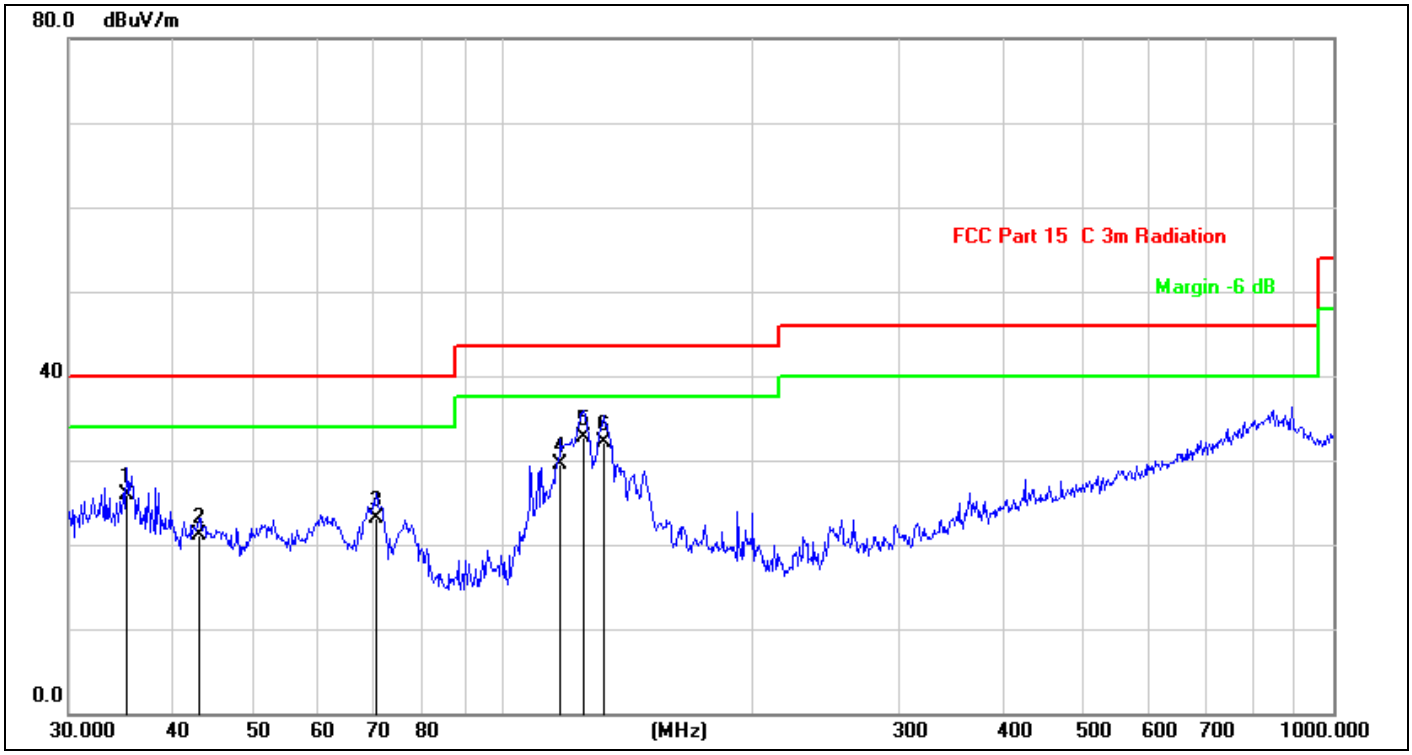
Site:	**LAB**	**Antenna: Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Magnetic Wireless Power Bank**	**Test Time:**	**2022/05/25**
M/N.:	**HMF-50**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.3259	69.45	5.80	75.25	97.32	-22.07	QP	100	74	
2	0.6601	52.65	6.45	59.10	71.22	-12.12	QP	100	125	
3	0.9801	45.63	6.08	51.71	67.79	-16.08	QP	100	36	
4	1.3051	44.59	6.13	50.72	65.31	-14.59	QP	100	74	
5	2.0219	36.44	6.36	42.80	69.50	-26.70	QP	100	101	
6	13.0625	40.73	6.76	47.49	69.50	-22.01	QP	100	123	

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

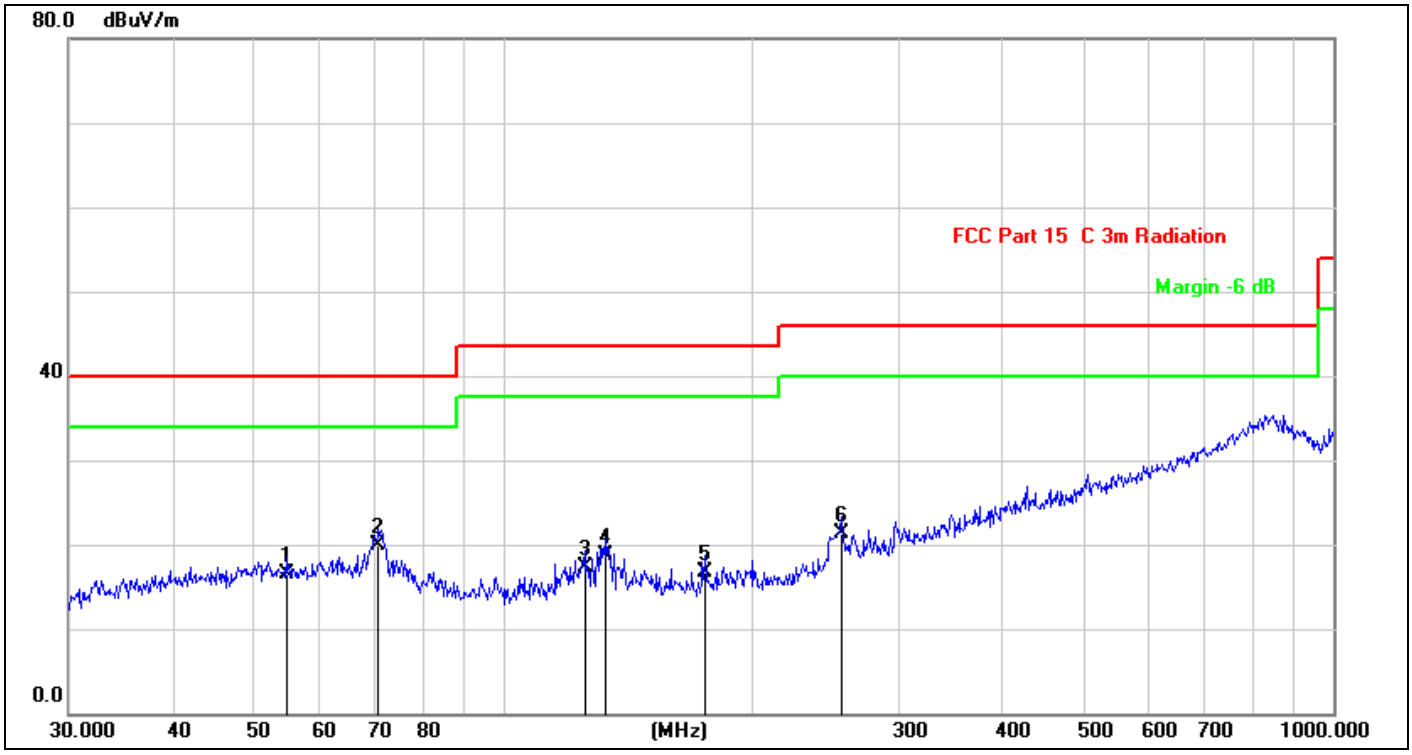
We pretested modes (Wireless Charging(5W), Wireless Charging(7.5W), Wireless Charging(10W)) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 10W



Site:	**LAB**	**Antenna: Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Magnetic Wireless Power Bank**	**Test Time:**	**2022/05/25**
M/N.:	**HMF-50**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**sunshine**
Note:			

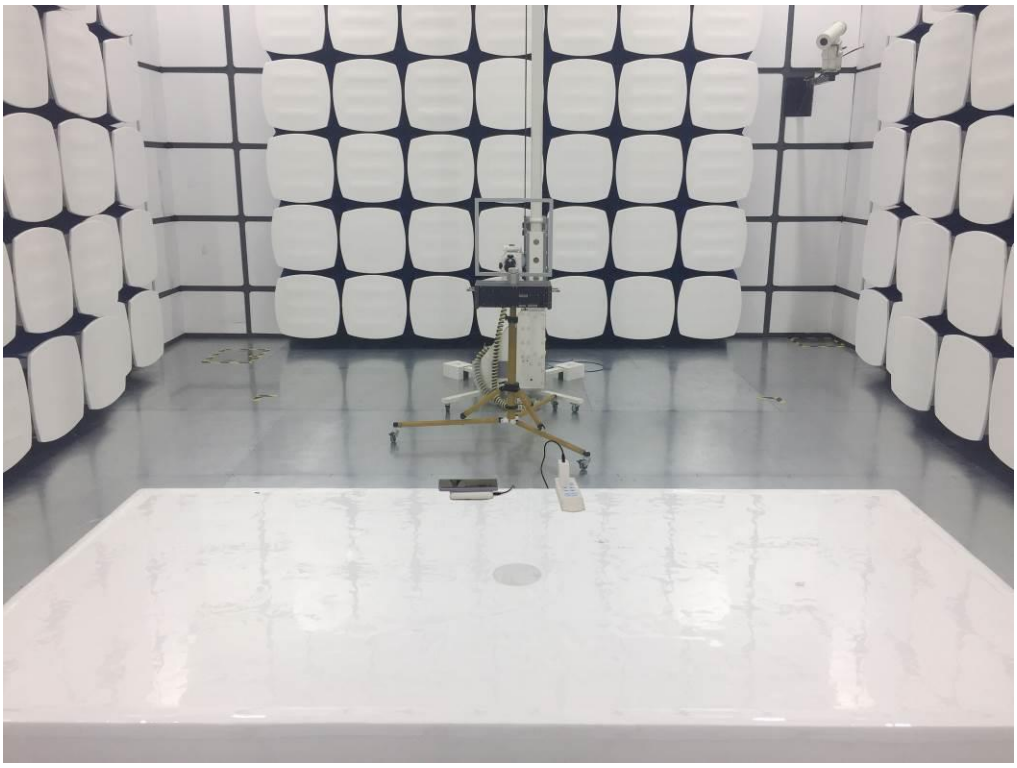
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	35.2512	37.50	-11.50	26.00	40.00	-14.00	QP	100	47	
2	43.0505	31.75	-10.55	21.20	40.00	-18.80	QP	100	47	
3	70.3365	34.00	-10.90	23.10	40.00	-16.90	QP	100	23	
4	117.3603	42.02	-12.45	29.57	43.50	-13.93	QP	100	23	
5	125.0066	45.03	-12.23	32.80	43.50	-10.70	QP	100	195	
6	132.2206	44.39	-12.19	32.20	43.50	-11.30	QP	100	195	



Site:	**LAB**	**Antenna: Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 C 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Magnetic Wireless Power Bank**	**Test Time:**	**2022/05/25**
M/N.:	**HMF-50**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	54.8348	26.05	-9.61	16.44	40.00	-23.56	QP	100	88	
2	70.8315	30.95	-10.95	20.00	40.00	-20.00	QP	100	88	
3	125.4457	29.64	-12.26	17.38	43.50	-26.12	QP	100	114	
4	133.1511	30.96	-12.23	18.73	43.50	-24.77	QP	100	114	
5	175.0368	28.22	-11.53	16.69	43.50	-26.81	QP	100	39	
6	255.6231	30.57	-9.27	21.30	46.00	-24.70	QP	100	39	

6.6 Radiated Measurement Photos



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

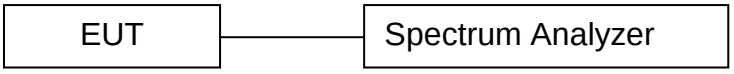
7.2 Test Instruments

Refer a test equipment and calibration data table in this test report.

7.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1KHz RBW and 3KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

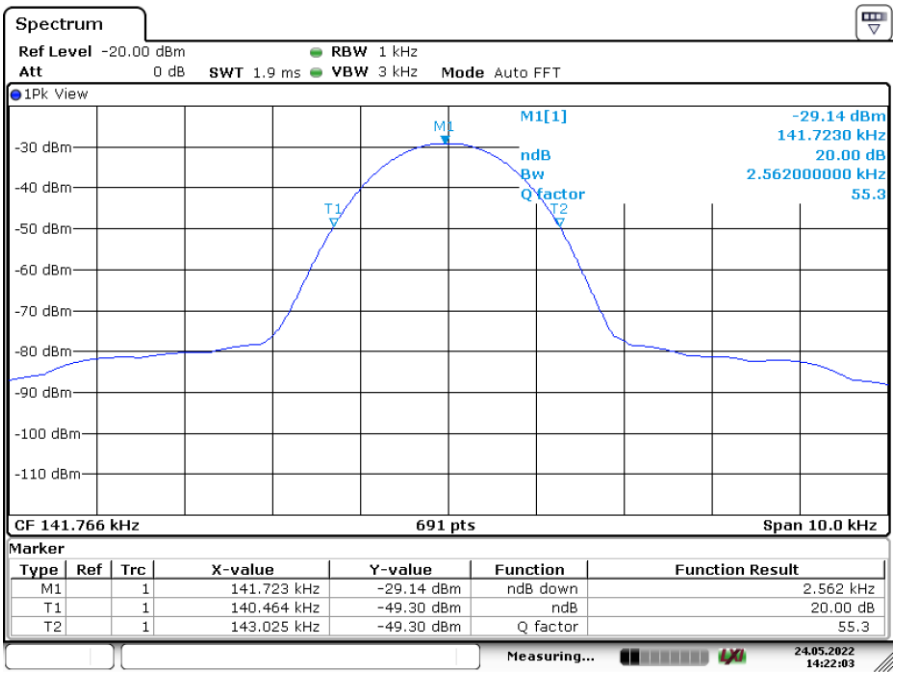
7.4 Test Setup



7.5 Test Result

Frequency (KHz)	20dB Bandwidth (KHz)	Results
141.723	2.562	PASS

20 dB Bandwidth Test plot



8 Antenna Application

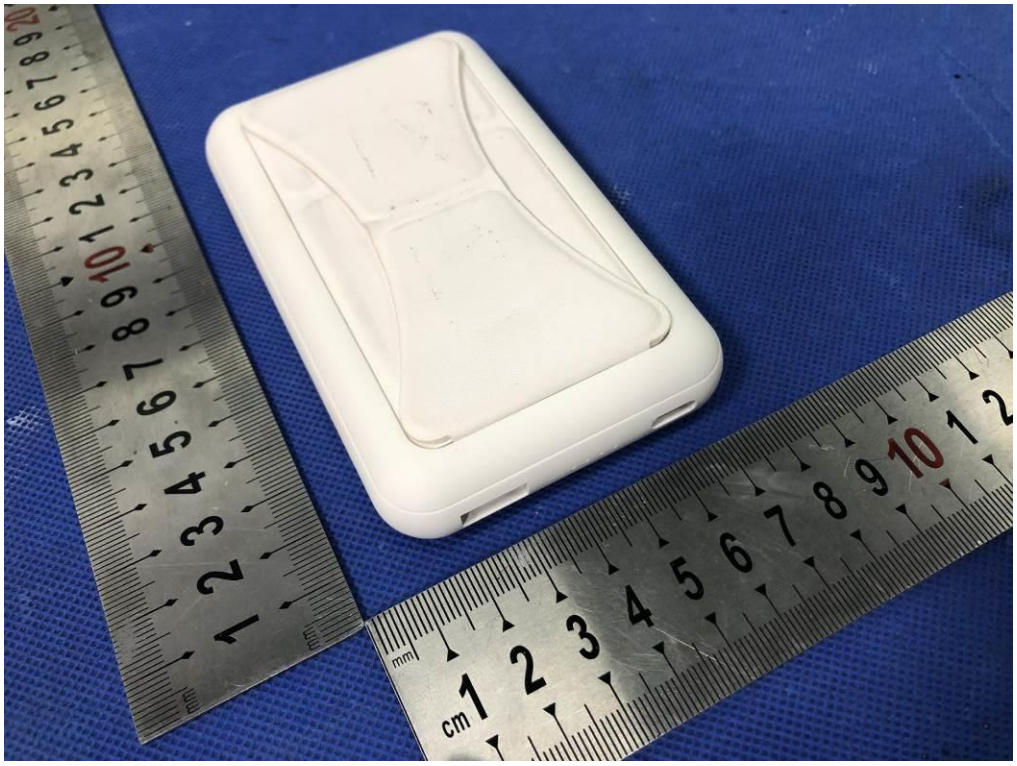
8.1 Antenna requirement

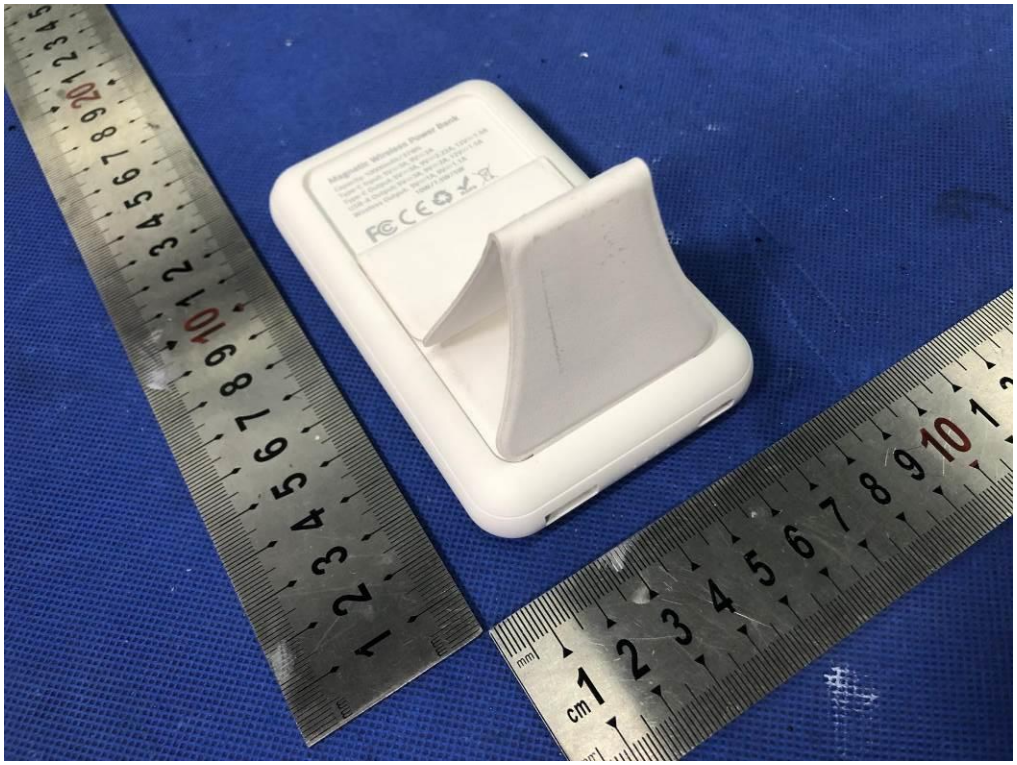
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

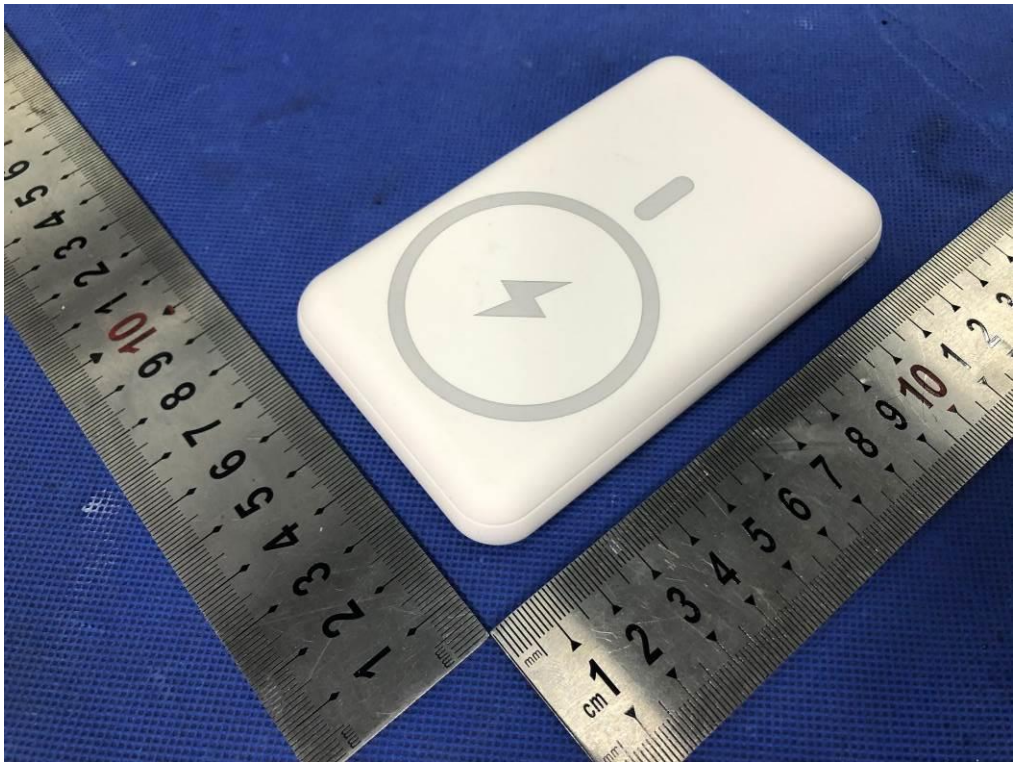
8.2 Result

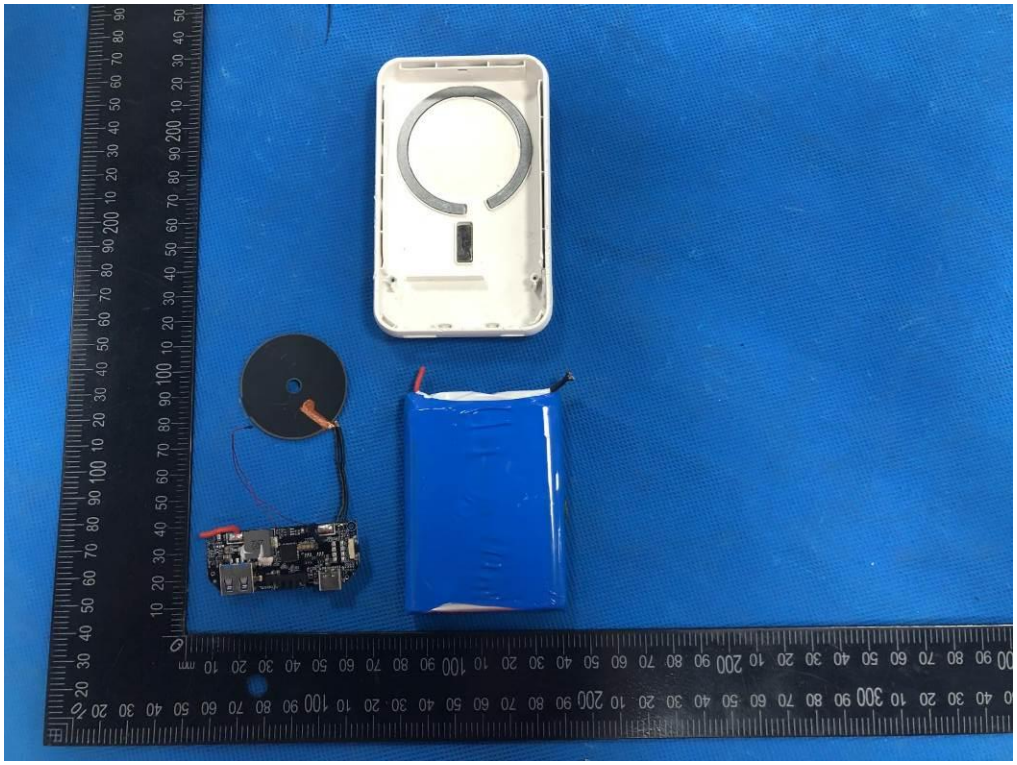
The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

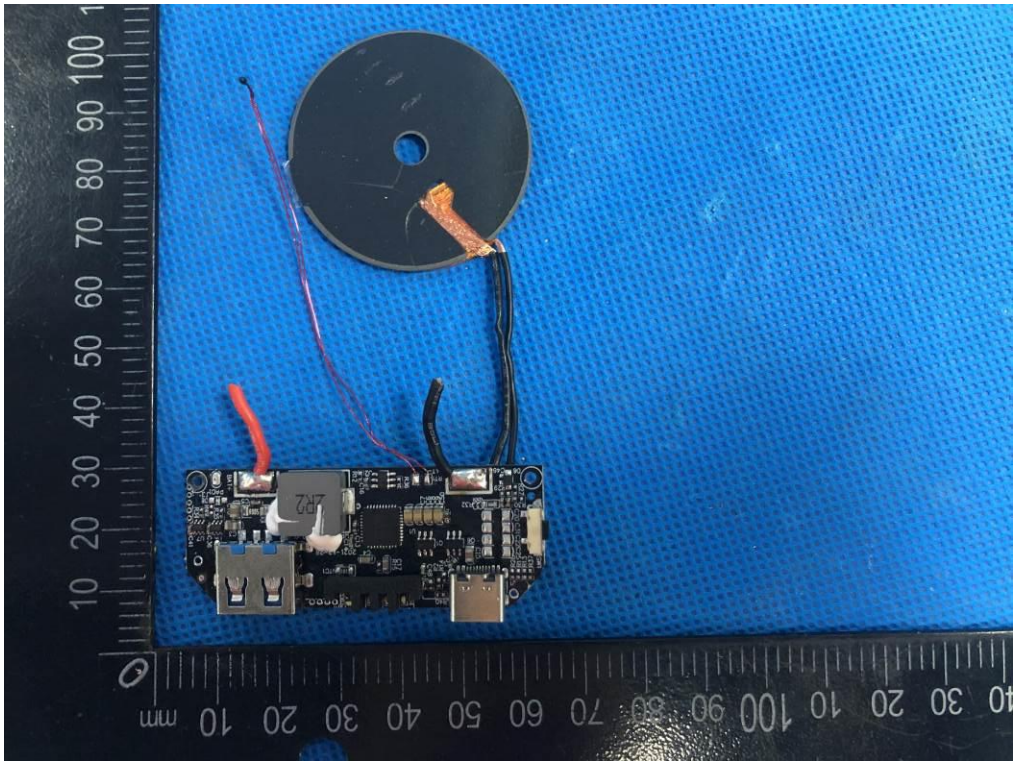
APPENDIX
(Photos of EUT)

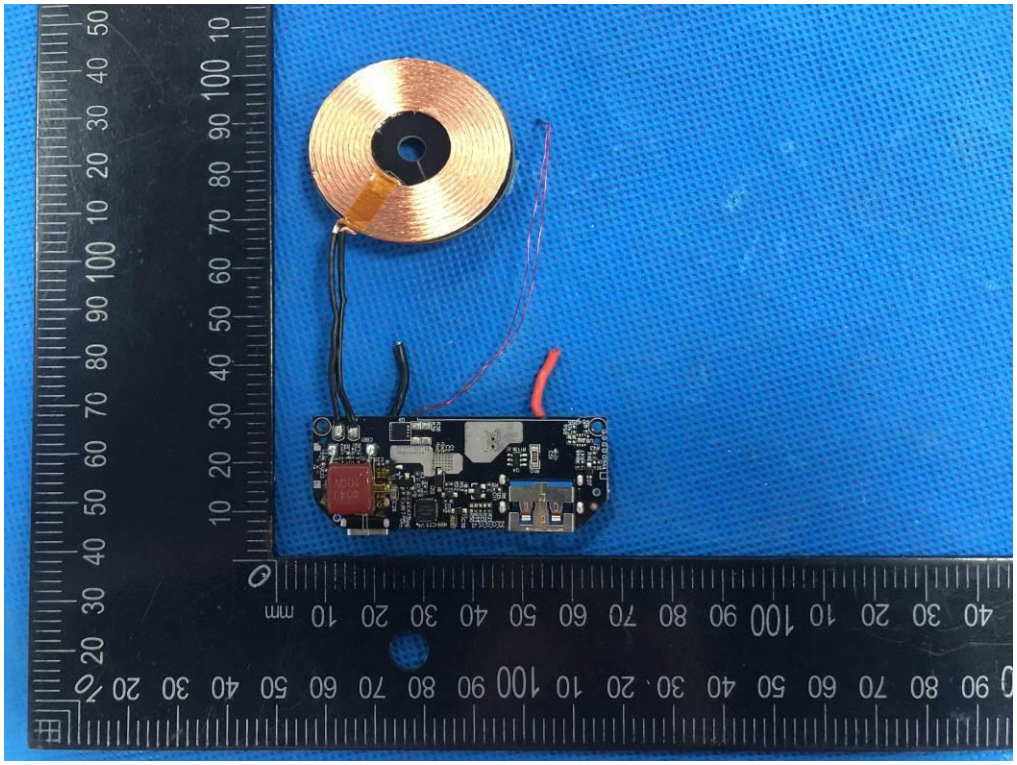


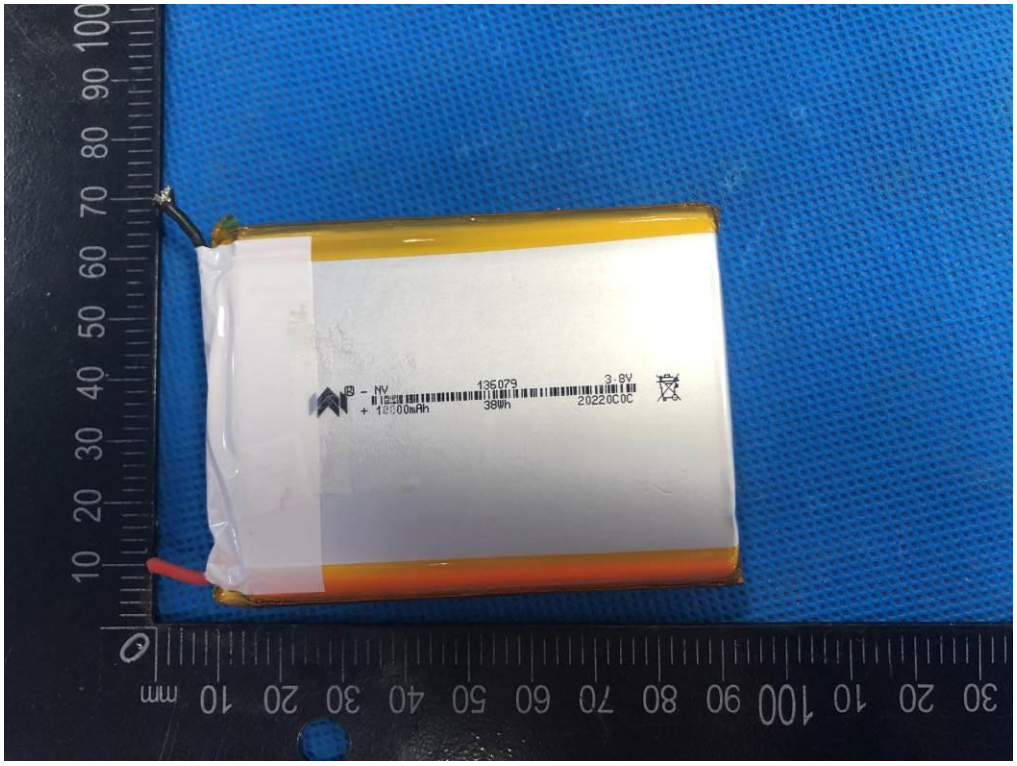












----------The end----------