

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

OF

Swiss Tech 40000mAh Ultimate Plus Power Bank

Model No.: 33658

Trademark: N/A

FCC ID: 2AMI2-33658

Report No.: E01A23010073F00601

Issue Date: February 09, 2023

Prepared for

Hangzhou Great Star Industrial Co., Ltd.

No.35, Jiuhuan Road, Jianggan District, Hangzhou, Zhejiang, China

Prepared by

Dong Guan Anci Electronic Technology Co., Ltd.

**1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake
Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr.,
China.**

**This report shall not be reproduced, except in full, without the written approval of
Dong Guan Anci Electronic Technology Co., Ltd.**

VERIFICATION OF COMPLIANCE

Applicant:	Hangzhou Great Star Industrial Co., Ltd. No.35, Jiujuan Road, Jianggan District, Hangzhou, Zhejiang, China
Manufacturer	Hangzhou Great Star Industrial Co., Ltd. No.35, Jiujuan Road, Jianggan District, Hangzhou, Zhejiang, China
Product Description:	Swiss Tech 40000mAh Ultimate Plus Power Bank
Trade Mark:	N/A
Model Number:	33658

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 : January 08, 2023 to January 13, 2023

Prepared by : _____



Reviewer &
Authorized Signer : _____

Tiger Xu / Supervisor

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A23010073F00601

Table of Contents

1 GENERAL INFORMATION	5
1.1 PRODUCT DESCRIPTION	5
1.2 RELATED SUBMITTAL(S) / GRANT(S)	6
1.3 TEST METHODOLOGY	6
1.4 SPECIAL ACCESSORIES	6
1.5 EQUIPMENT MODIFICATIONS	6
1.6 TEST FACILITY.....	6
2 SYSTEM TEST CONFIGURATION.....	7
2.1 EUT CONFIGURATION	7
2.2 EUT EXERCISE	7
2.3 TEST PROCEDURE	7
2.4 CONFIGURATION OF TESTED SYSTEM.....	8
3 SUMMARY OF TEST RESULTS.....	8
4 TEST SYSTEM UNCERTAINTY.....	9
5 CONDUCTED EMISSIONS TEST	10
5.1 MEASUREMENT PROCEDURE	10
5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	10
5.3 MEASUREMENT EQUIPMENT USED.....	10
5.4 CONDUCTED EMISSION LIMIT	10
5.5 MEASUREMENT RESULT	11
5.6 CONDUCTED MEASUREMENT PHOTO.....	14
6 RADIATED EMISSION TEST.....	15
6.1 MEASUREMENT PROCEDURE	15
6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	15
6.3 MEASUREMENT EQUIPMENT USED.....	16
6.4 RADIATED EMISSION LIMIT	16
6.5 MEASUREMENT RESULT	18
6.6 RADIATED MEASUREMENT PHOTOS.....	24
7 20DB BANDWIDTH.....	25
7.1 20DB BANDWIDTH LIMIT	25
7.2 TEST INSTRUMENTS.....	25
7.3 TEST PROCEDURE	25
7.4 TEST SETUP.....	25
7.5 TEST RESULT	25
8 ANTENNA APPLICATION	27
8.1 ANTENNA REQUIREMENT	27
8.2 RESULT	27

1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Swiss Tech 40000mAh Ultimate Plus Power Bank
Model number	33658
Operation Mode	Wireless Charging
Input Rating	5V == 3A, 9V == 3A, 12V == 3A, 15V == 3A, 20V == 3.25A
Power Supply	AC120V/60Hz for adapter
Operating Frequency	110-205KHz
Wireless Charging Power	5W, 7.5W, 10W
Modulation Technique	FSK
Antenna Type	Induction coil

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2AMI2-33658 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, development 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 placed on a 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 placed on a 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 onfiguration of Tested System

Fig. 2-1 Configuration of Tested System

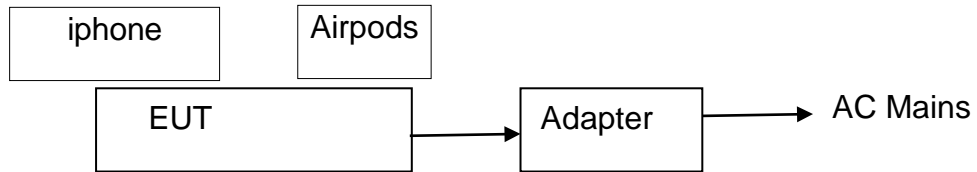


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Swiss Tech 4000mAh Ultimate Plus Power Bank	N/A	33658	2AMI2-33658	<i>EUT</i>
2.	Adapter	N/A	Model: HW-200325CP0 Input: 100-240V~, 50/60Hz, 1.8A Output: 5V == 2A, 9V == 2A, 12V == 2A, 15V == 3A, 20V == 3.25A	N/A	<i>Support Equipment</i>
3.	iphone	Apple	A2404	N/A	<i>Support Equipment</i>
4.	Airpods	Apple	A2190	N/A	<i>Support Equipment</i>

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	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

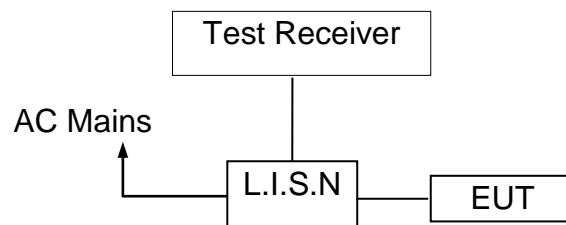
Remark: The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%

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.

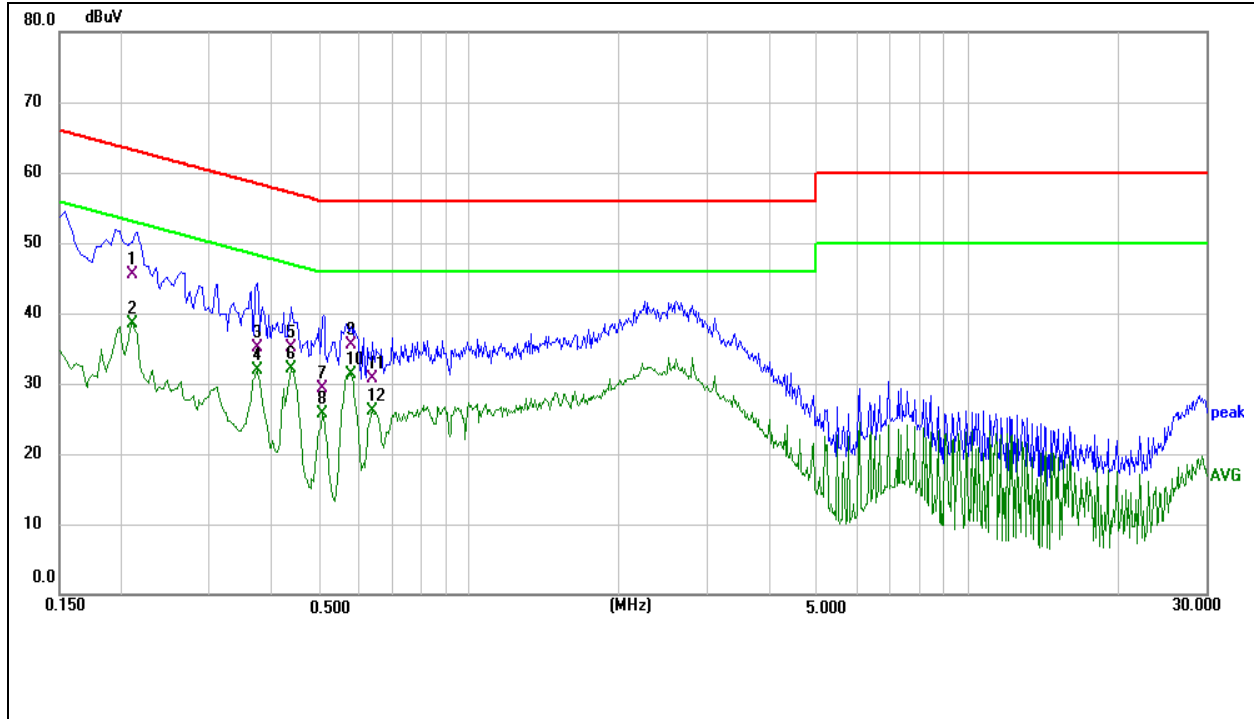
5.5 Measurement Result

Operation Mode:	TX	Test Date :	2023/01/09
Frequency Range:	0.15MHz~30MHz	Temperature :	22°C
Test Result:	PASS	Humidity :	55 %
Test By:	Best		

Pass

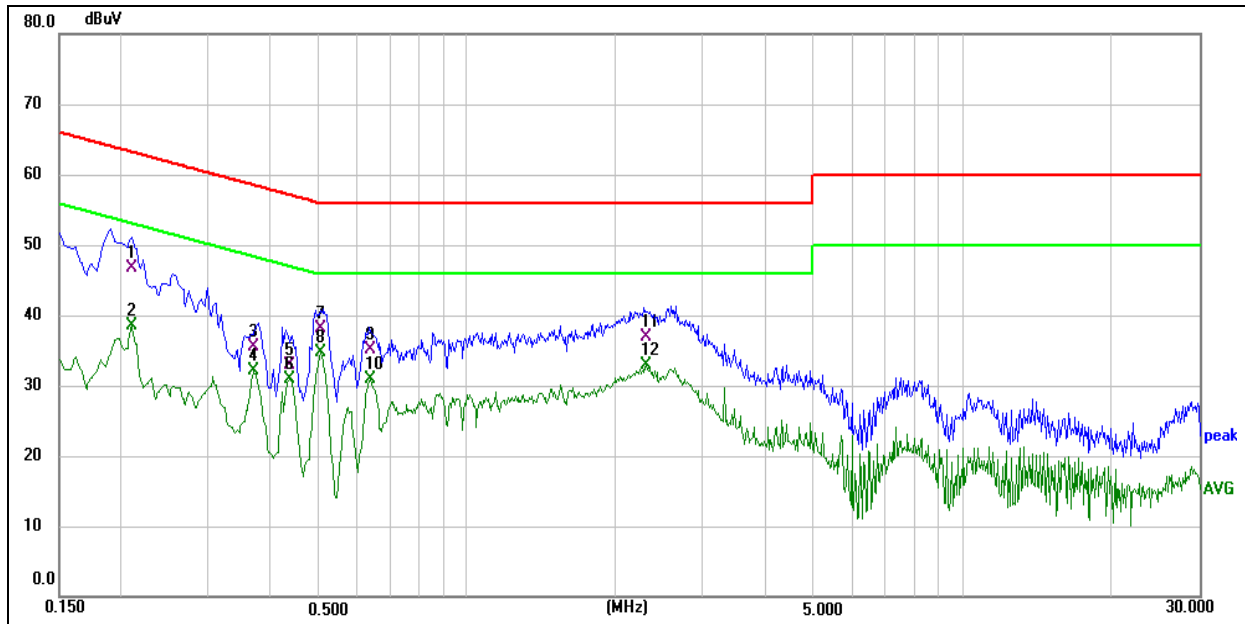
We pretested modes (Wireless Charging 10W) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 10W



Site:	843	Phase: L1	Temperature(C): 22
Limit:	FCC Part 15 C Conduction(QP)		Humidity(%): 55
EUT:	Swiss Tech 4000mAh Ultimate Plus Power Bank	Test Time:	2023/01/10
M/N.:	33658	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 10W	Test Engineer:	Jack
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.2100	35.54	9.97	45.51	63.21	-17.70	QP	
2	0.2100	28.63	9.97	38.60	53.21	-14.61	AVG	
3	0.3740	24.75	10.42	35.17	58.41	-23.24	QP	
4	0.3740	21.42	10.42	31.84	48.41	-16.57	AVG	
5	0.4380	24.32	10.71	35.03	57.10	-22.07	QP	
6	0.4380	21.32	10.71	32.03	47.10	-15.07	AVG	
7	0.5060	19.63	9.76	29.39	56.00	-26.61	QP	
8	0.5060	15.90	9.76	25.66	46.00	-20.34	AVG	
9	0.5780	25.86	9.64	35.50	56.00	-20.50	QP	
10	0.5780	21.59	9.64	31.23	46.00	-14.77	AVG	
11	0.6380	21.02	9.62	30.64	56.00	-25.36	QP	
12	0.6380	16.53	9.62	26.15	46.00	-19.85	AVG	



Site:	843	Phase:	N	Temperature(C):	22
Limit:	FCC Part 15 C Conduction(QP)			Humidity(%):	55
EUT:	Swiss Tech 4000mAh Ultimate Plus Power Bank	Test Time:			2023/01/10
M/N.:	33658	Power Rating:		AC 120V/60Hz	
Mode:	Wireless Charging 10W	Test Engineer:		Jack	
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.2100	36.80	9.97	46.77	63.21	-16.44	QP	
2	0.2100	28.49	9.97	38.46	53.21	-14.75	AVG	
3	0.3700	25.09	10.40	35.49	58.50	-23.01	QP	
4	0.3700	21.71	10.40	32.11	48.50	-16.39	AVG	
5	0.4380	22.11	10.71	32.82	57.10	-24.28	QP	
6	0.4380	20.16	10.71	30.87	47.10	-16.23	AVG	
7	0.5060	28.28	9.76	38.04	56.00	-17.96	QP	
8	0.5060	25.03	9.76	34.79	46.00	-11.21	AVG	
9	0.6380	25.44	9.62	35.06	56.00	-20.94	QP	
10	0.6380	21.19	9.62	30.81	46.00	-15.19	AVG	
11	2.3020	26.99	9.92	36.91	56.00	-19.09	QP	
12	2.3020	22.97	9.92	32.89	46.00	-13.11	AVG	

5.6 Conducted Measurement Photo



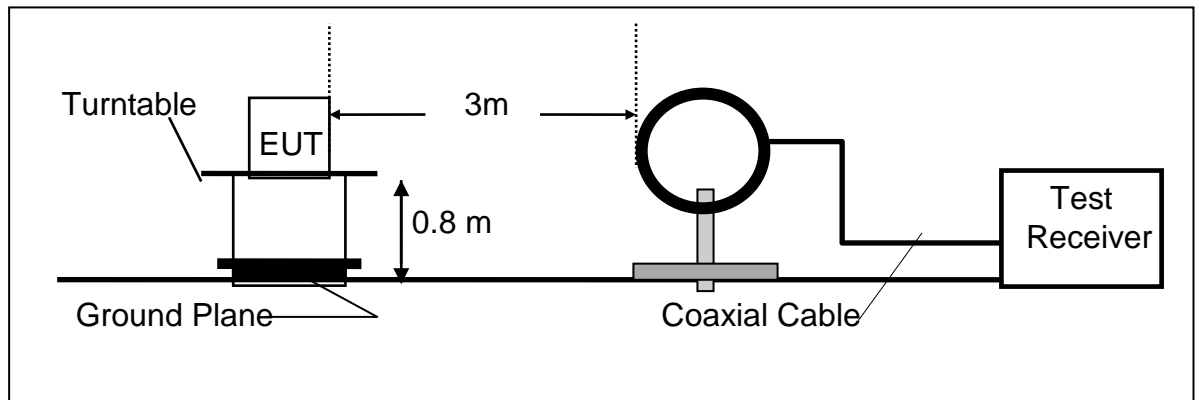
6 Radiated Emission Test

6.1 Measurement Procedure

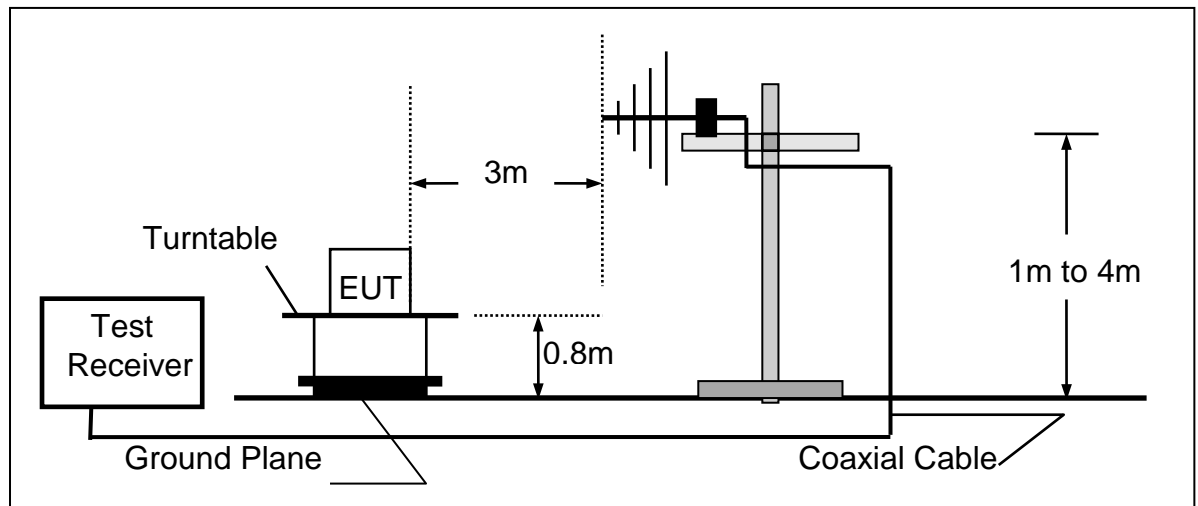
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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	2023-10-07
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	2023-10-07
5.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2023-10-07
6.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2023-10-07
7.	RF Cable	N/A	N/A	6#	2023-05-12
8.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2024-11-11
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

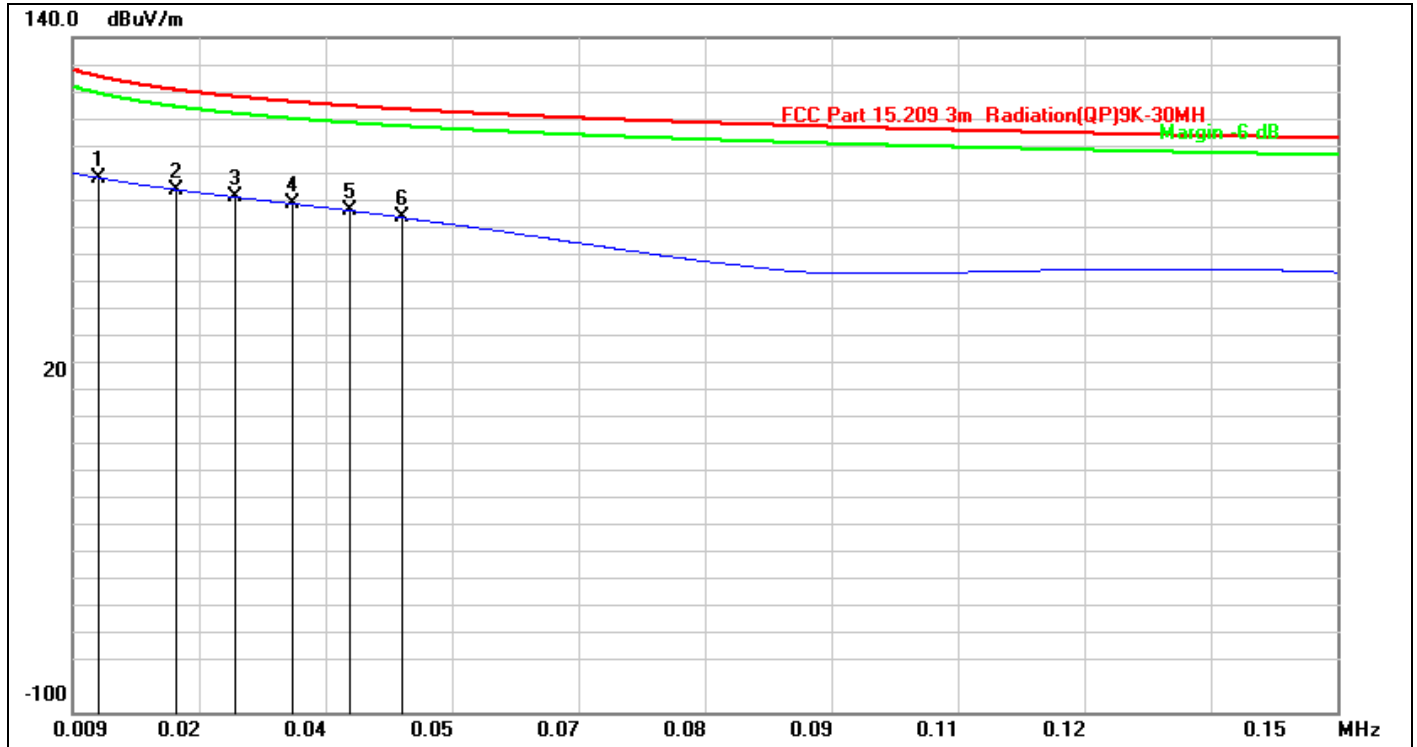
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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

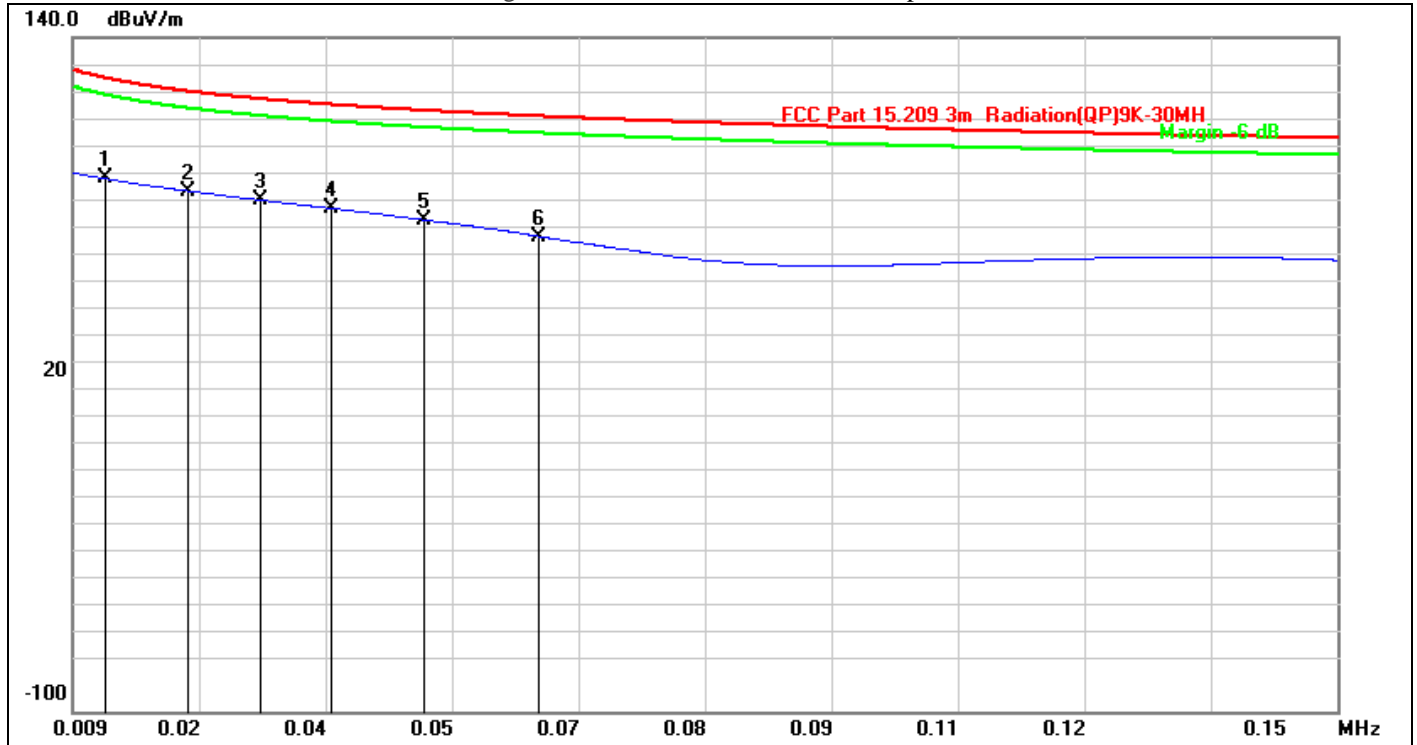
We pretested modes (Wireless Charging 10W) for EUT. The worst mode test data see follow the table.

Test mode: Wireless Charging 10W



Site:	LAB	Antenna: Vertical	Temperature(C): 23.4(C)
Limit:	FCC Part 15C 3m Radiation(QP)	Test Time:	Humidity(%): 56.7%
EUT:	Swiss Tech 40000mAh Ultimate Plus Power Bank	Power Rating:	2023/01/11
M/N.:	33658	Test Engineer:	AC 120V/60Hz
Mode:	Wireless Charging 10W		sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0120	72.29	17.67	89.96	128.28	-38.32	QP	
2	0.0206	71.79	14.10	85.89	127.66	-41.77	QP	
3	0.0272	69.77	13.50	83.27	127.19	-43.92	QP	
4	0.0335	67.95	12.92	80.87	126.73	-45.86	QP	
5	0.0399	66.07	12.35	78.42	126.27	-47.85	QP	
6	0.0458	64.06	11.82	75.88	125.85	-49.97	QP	

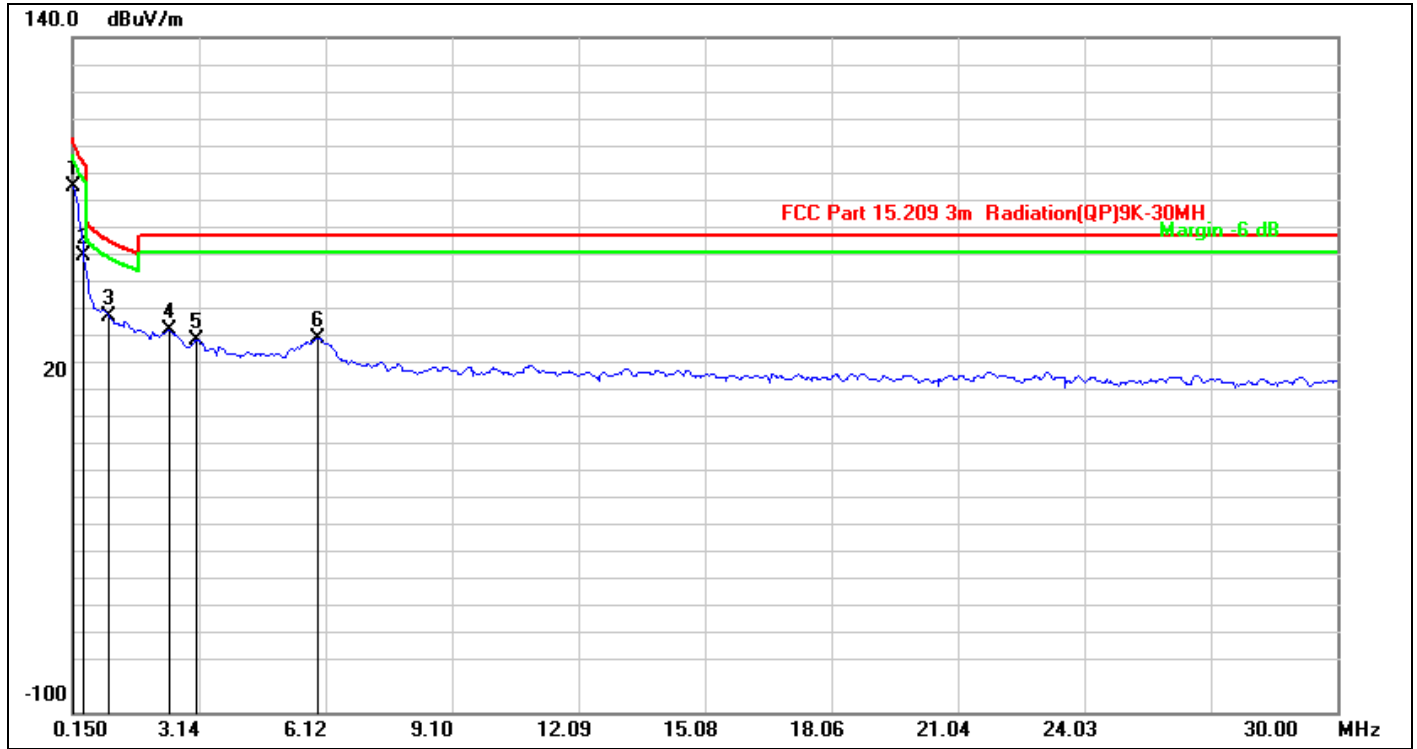


Site:	LAB	Antenna::	Horizontal	Temperature(C):	23.4(C)
Limit:	FCC Part 15C 3m Radiation(QP)	Test Time:		Humidity(%):	56.7%
EUT:	Swiss Tech 40000mAh Ultimate Plus Power Bank	Power Rating:		Test Engineer:	sunshine
M/N.:	33658				
Mode:	Wireless Charging 10W				
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0126	72.22	17.41	89.63	128.24	-38.61	QP	
2	0.0218	71.40	13.99	85.39	127.58	-42.19	QP	
3	0.0300	68.84	13.25	82.09	126.99	-44.90	QP	
4	0.0379	66.61	12.53	79.14	126.42	-47.28	QP	
5	0.0481	63.51	11.61	75.12	125.68	-50.56	QP	
6	0.0610	57.86	11.22	69.08	124.75	-55.67	QP	

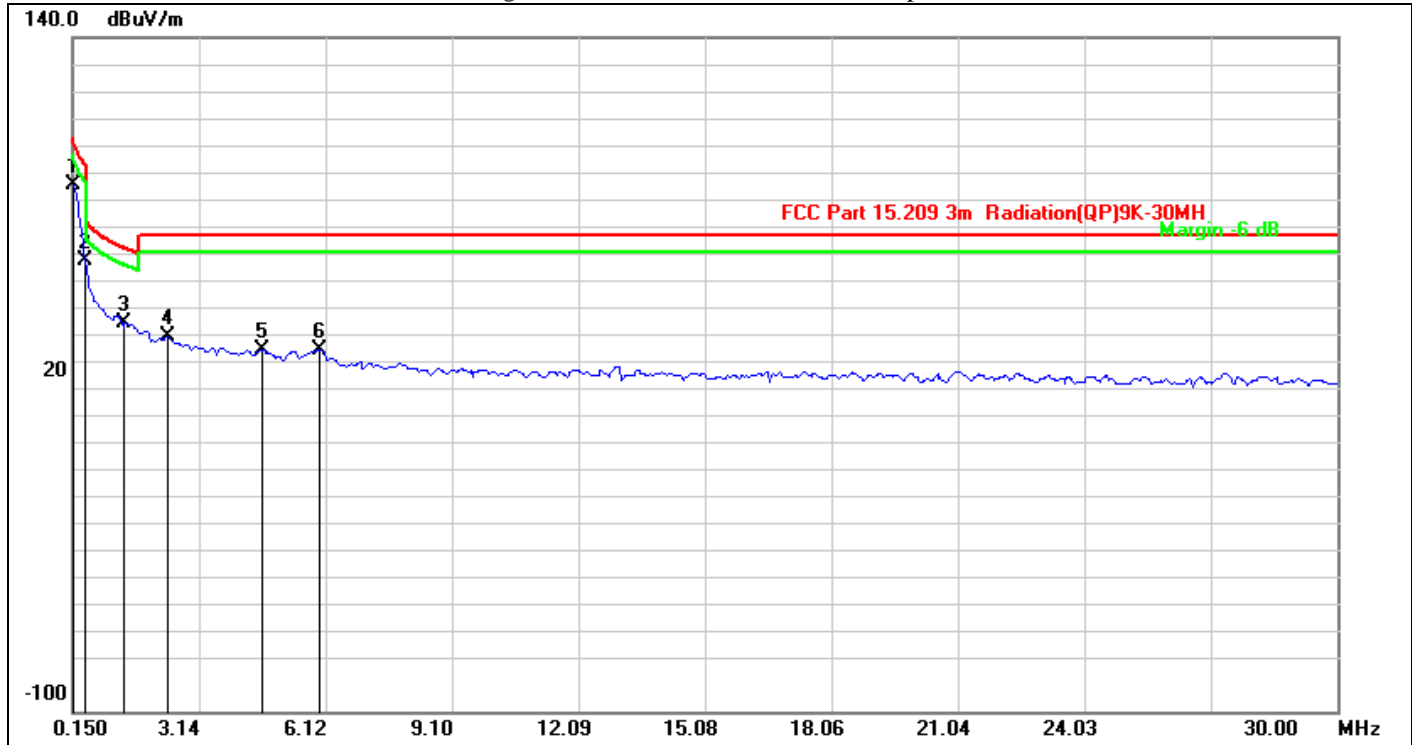
- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.

Test mode: Wireless Charging 10W



Site:	LAB	Antenna::	Vertical	Temperature(C):	23.4(C)
Limit:	FCC Part 15C 3m Radiation(QP)	Humidity(%):	56.7%		
EUT:	Swiss Tech 40000mAh Ultimate Plus Power Bank	Test Time:	2023/01/11		
M/N.:	33658	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.	Remark
1	0.1500	76.33	10.64	86.97	118.33	-31.36	QP	
2	0.4187	51.92	10.55	62.47	98.94	-36.47	QP	
3	1.0157	29.94	10.54	40.48	69.13	-28.65	QP	
4	2.4186	25.20	10.60	35.80	69.50	-33.70	QP	
5	3.0753	21.88	10.63	32.51	69.50	-36.99	QP	
6	5.9408	22.44	10.74	33.18	69.50	-36.32	QP	



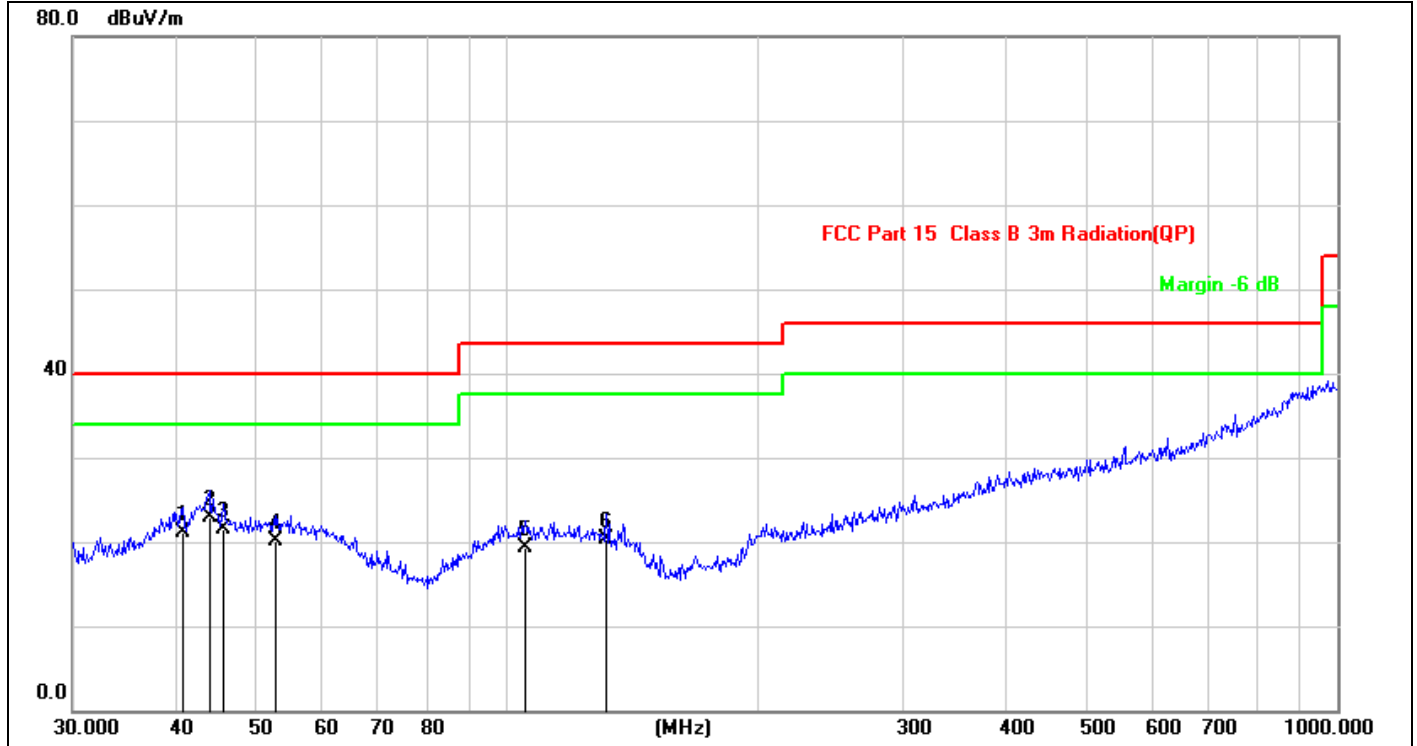
Site:	LAB	Antenna::	Horizontal	Temperature(C):	23.4(C)
Limit:	FCC Part 15C 3m Radiation(QP)	Test Time:		Humidity(%):	56.7%
EUT:	Swiss Tech 40000mAh Ultimate Plus Power Bank	Power Rating:		Test Engineer:	sunshine
M/N.:	33658				
Mode:	Wireless Charging 10W				
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1500	77.03	10.64	87.67	118.33	-30.66	QP	
2	0.4485	49.88	10.54	60.42	96.79	-36.37	QP	
3	1.3739	27.99	10.56	38.55	65.94	-27.39	QP	
4	2.3888	22.78	10.60	33.38	69.50	-36.12	QP	
5	4.6275	17.92	10.70	28.62	69.50	-40.88	QP	
6	5.9708	18.04	10.74	28.78	69.50	-40.72	QP	

- 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.

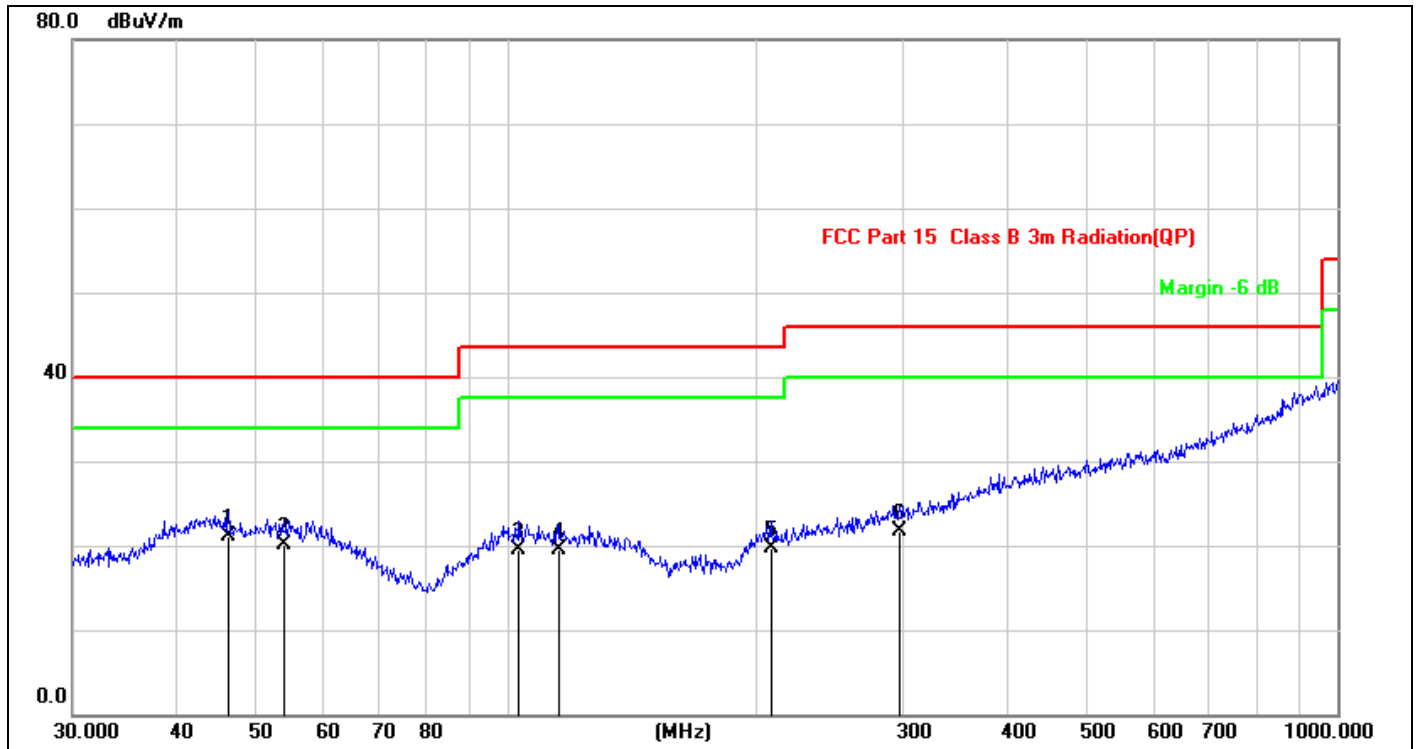
We pretested modes (Wireless Charging 10W) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 10W



Site:	LAB	Antenna::	Vertical	Temperature(C):	23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)	Test Time:		Humidity(%):	56.7%
EUT:	Swiss Tech 40000mAh Ultimate Plus Power Bank	Power Rating:			2023/01/11
M/N.:	33658	Test Engineer:			AC 120V/60Hz
Mode:	Wireless Charging 10W				sunshine
Note:					

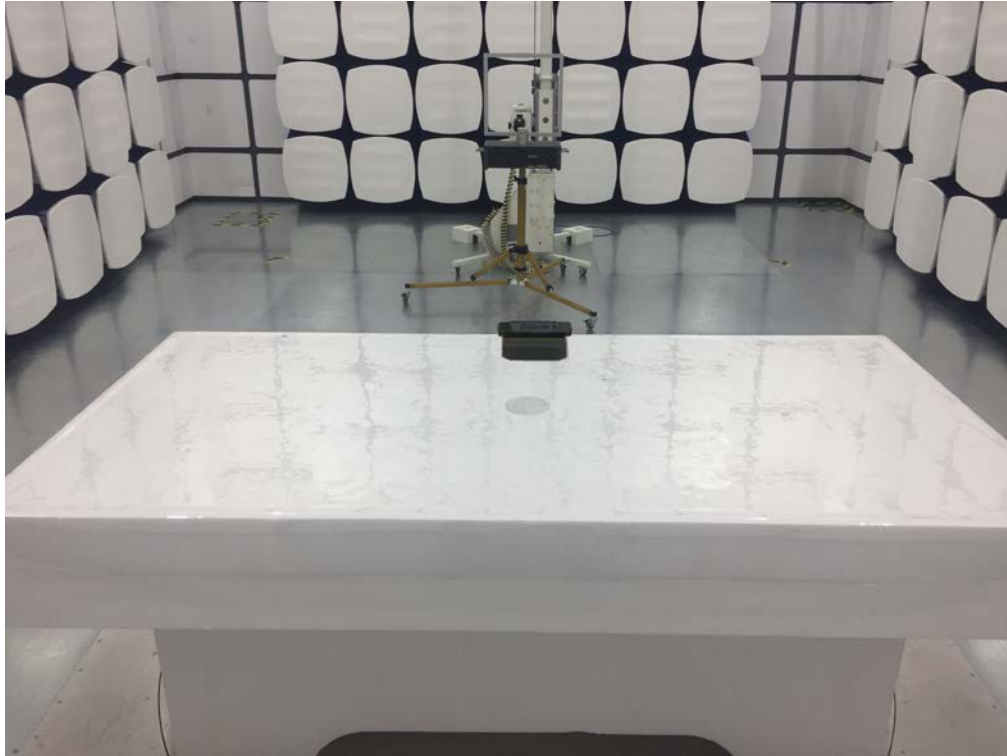
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	40.7016	25.68	-4.48	21.20	40.00	-18.80	QP	
2	43.8119	27.38	-4.38	23.00	40.00	-17.00	QP	
3	45.5348	25.92	-4.32	21.60	40.00	-18.40	QP	
4	52.7600	24.54	-4.34	20.20	40.00	-19.80	QP	
5	105.2718	24.08	-4.68	19.40	43.50	-24.10	QP	
6	131.7577	27.77	-7.47	20.30	43.50	-23.20	QP	



Site:	LAB	Antenna::	Horizontal	Temperature(C):	23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)			Humidity(%):	56.7%
EUT:	Swiss Tech 40000mAh Ultimate Plus Power Bank	Test Time:			2023/01/11
M/N.:	33658	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.	Remark
1	46.1779	25.40	-4.30	21.10	40.00	-18.90	QP	
2	53.8818	24.61	-4.41	20.20	40.00	-19.80	QP	
3	103.4421	24.36	-4.76	19.60	43.50	-23.90	QP	
4	115.3205	24.57	-5.07	19.50	43.50	-24.00	QP	
5	207.8501	24.73	-4.93	19.80	43.50	-23.70	QP	
6	297.2241	23.72	-2.02	21.70	46.00	-24.30	QP	

6.6 Radiated Measurement Photos



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

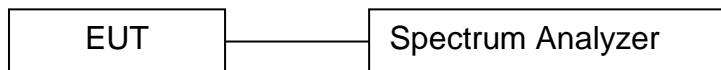
7.2 Test Instruments

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.

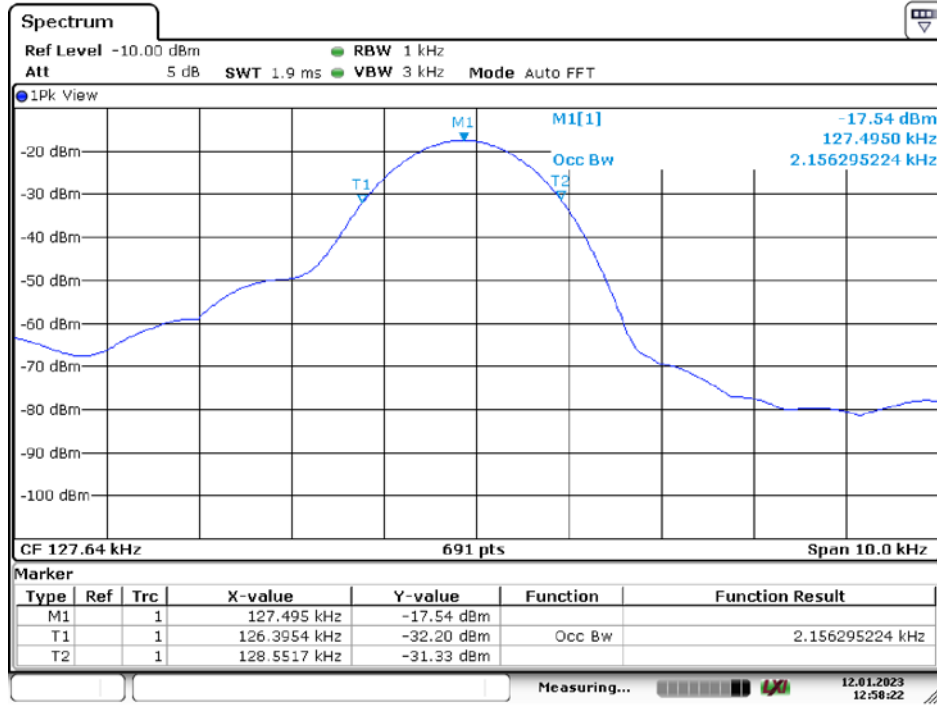
7.4 Test Setup



7.5 Test Result

Charging Mode	Frequency (KHz)	20dB Bandwidth (KHz)	Results
iPhone	127.495	2.156	PASS

20 dB Bandwidth Test plot



Date: 12.JAN.2023 12:58:22

Wireless Charging for iPhone

8 Antenna Application

8.1 Antenna requirement

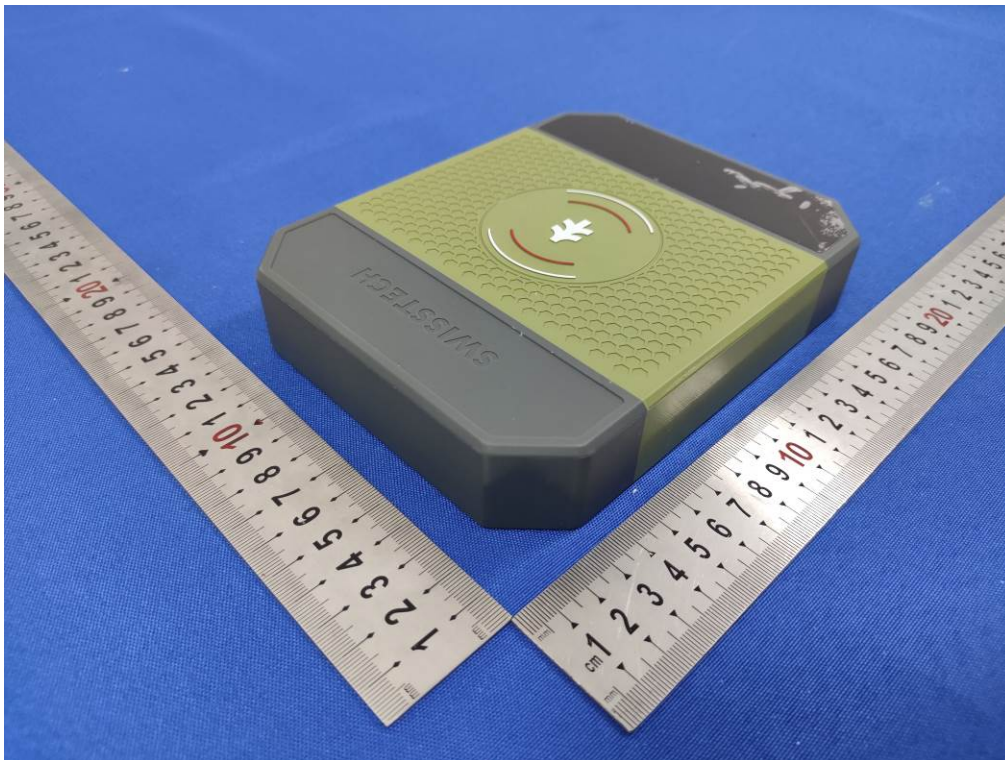
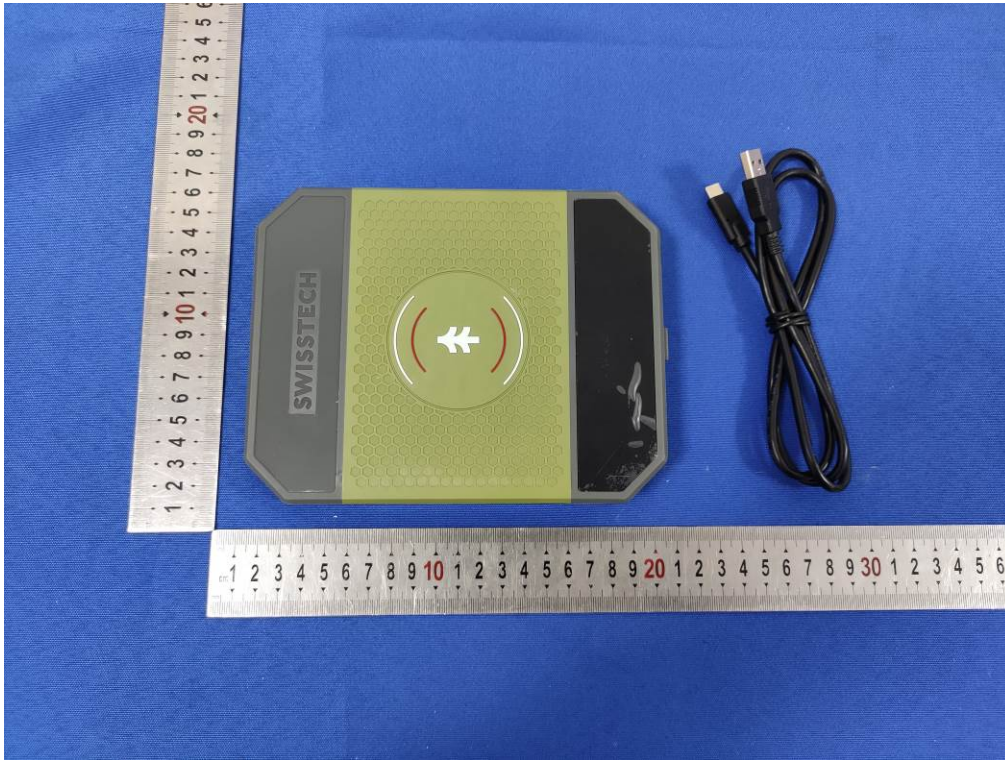
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

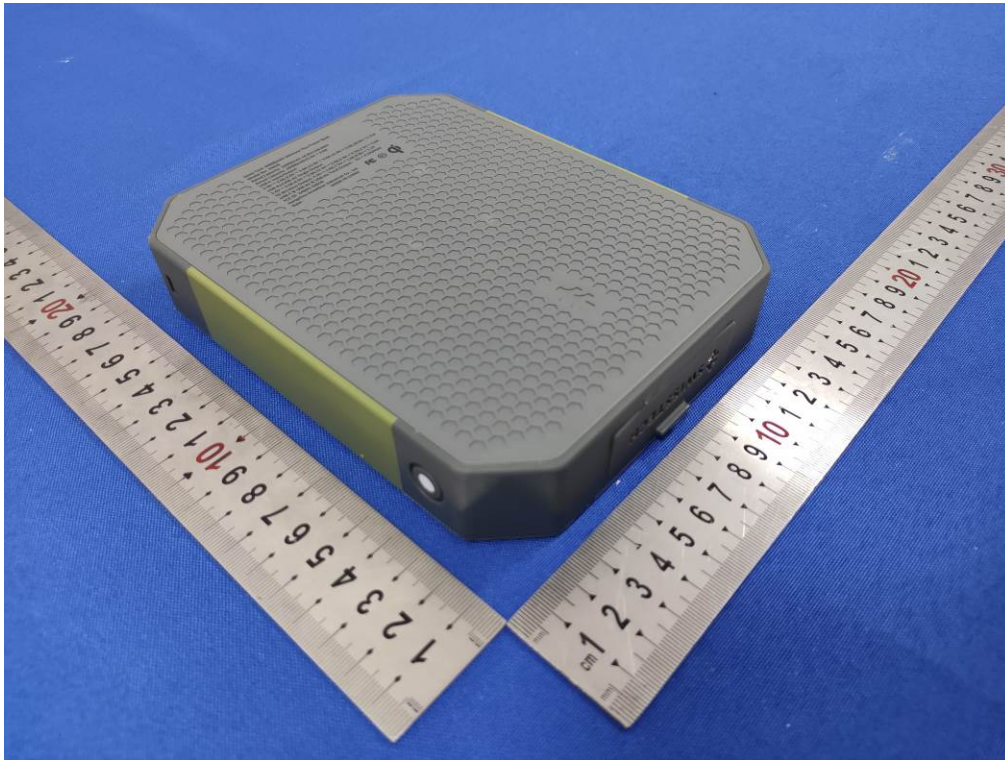
8.2 Result

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

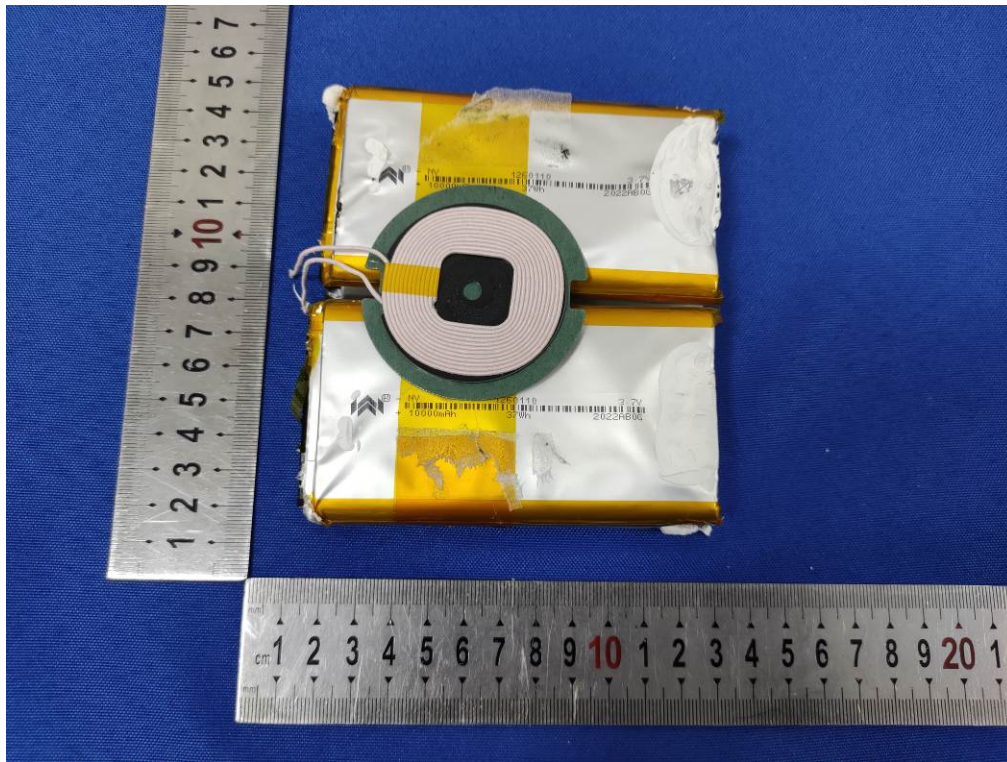
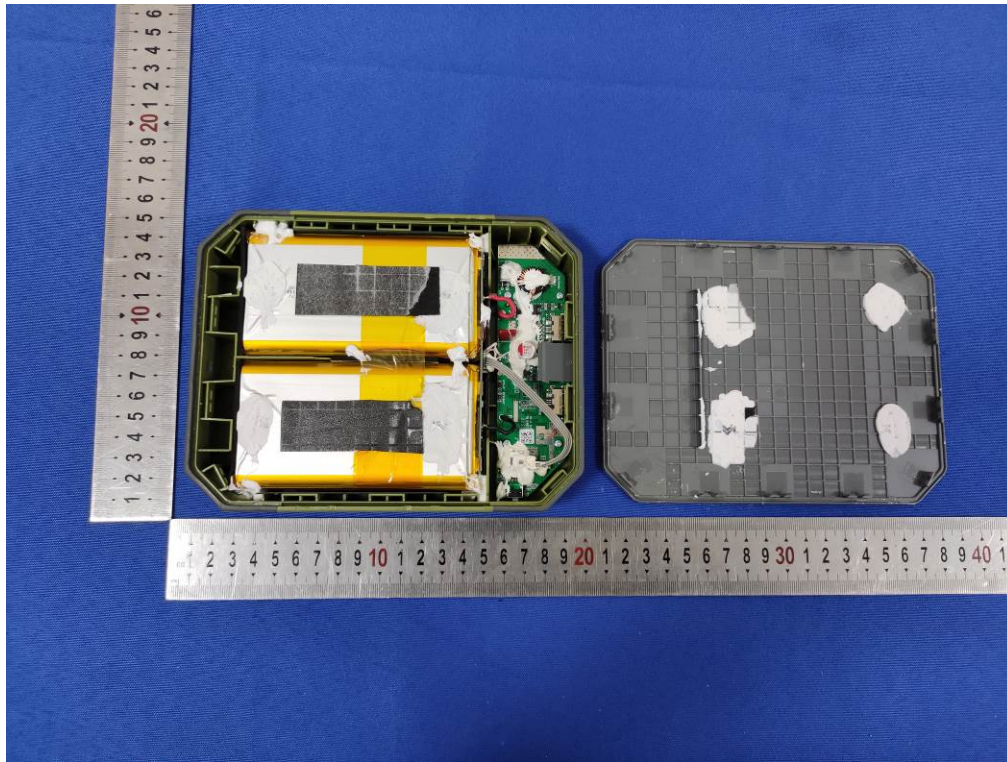
APPENDIX (Photos of EUT)

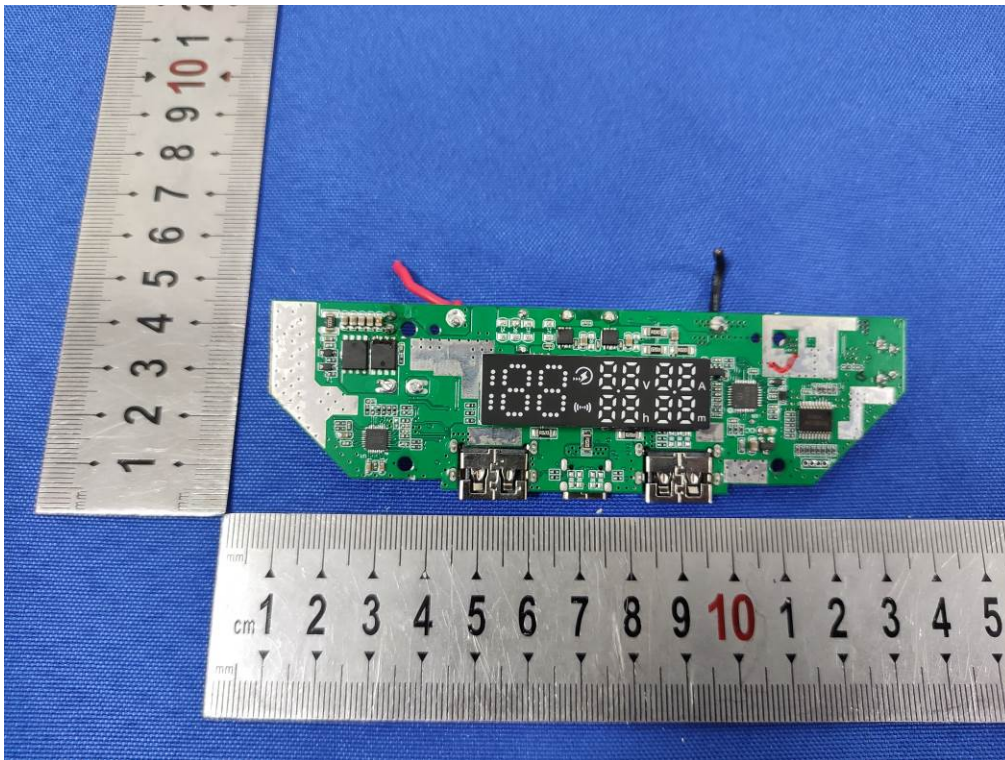
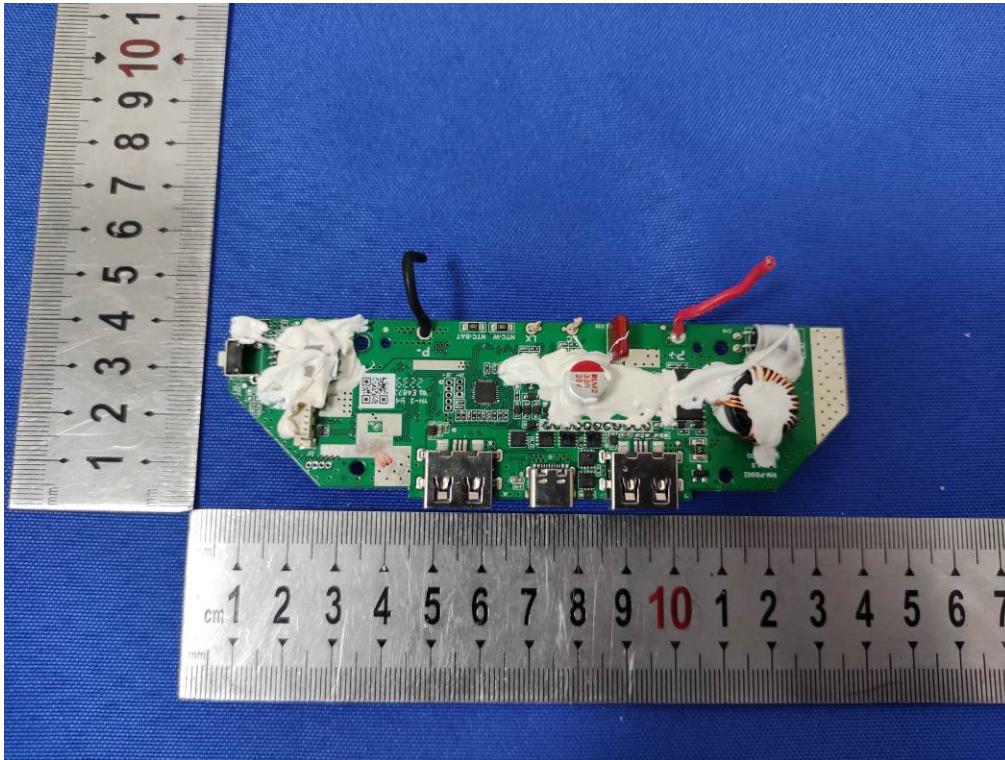
External Photos

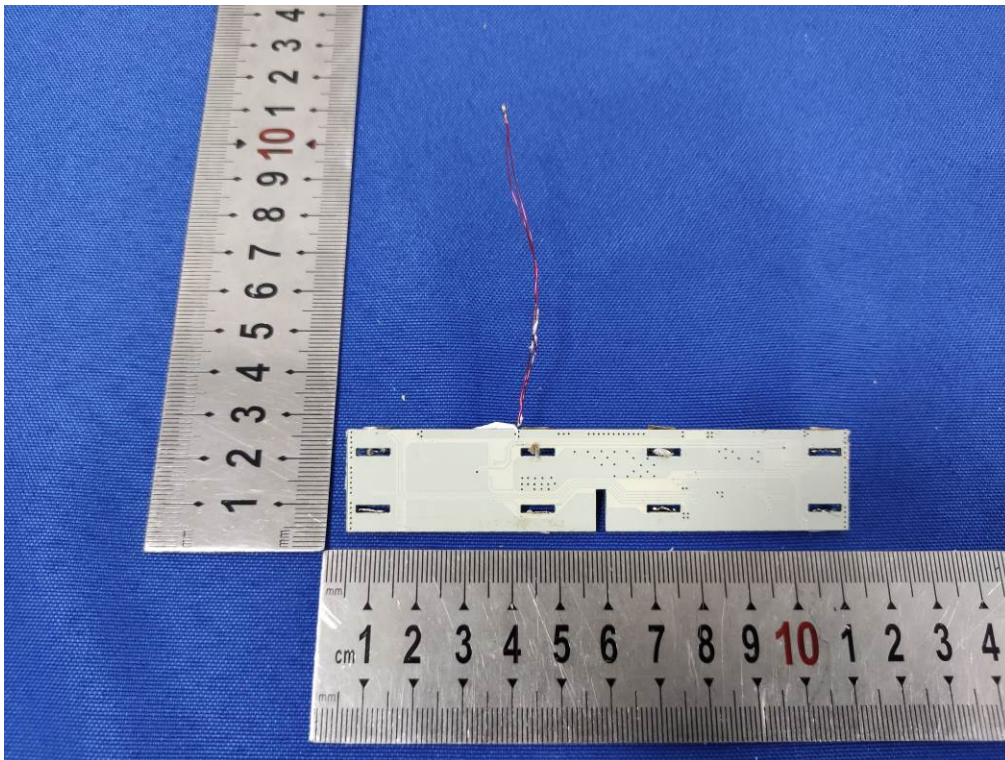
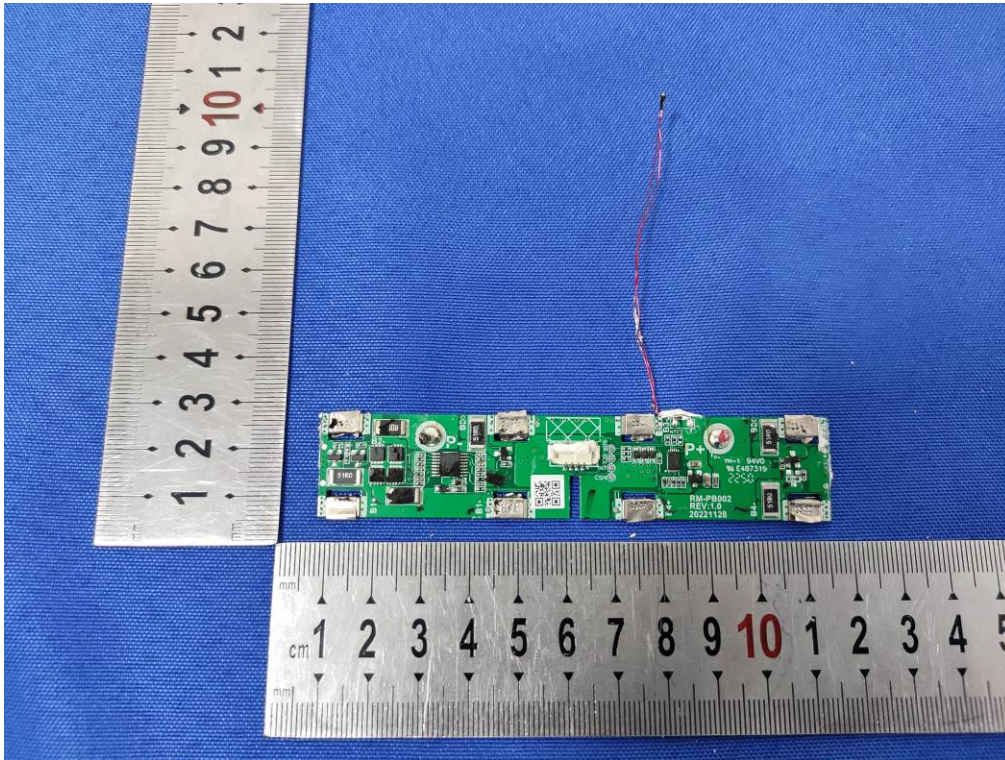




Internal Photos







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