

**ELECTROMAGNETIC EMISSIONS COMPLIANCE
REPORT UNINTENTIONAL RADIATORS CERTIFICATION TO
FCC PART 18 SUBPART C REQUIREMENT**

OF

Power Bank

Model No.: HX160Q2

Trademark: trswyop, AXNEB FOCHEW, swyop

FCC ID: 2A46S-HX160Q2

Report No.: E01A22020109F00101

Issue Date: Mar. 01, 2022

Prepared for

Dongguan Haoxun Electronic Technology Co., Ltd.

**Room 301, Building 1, No. 4, Shigu Longkou Road, Tangxia Town dongguan,
Guangdong Province**

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.**

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Dong Guan Anci Electronic Technology Co., Ltd.**

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TEST REPORT DESCRIPTION

Applicant : Dongguan Haoxun Electronic Technology Co., Ltd.
Room 301, Building 1, No. 4, Shigu Longkou Road, Tangxia Town dongguan, Guangdong Province

Manufacturer : Dongguan Haoxun Electronic Technology Co., Ltd.
Room 301, Building 1, No. 4, Shigu Longkou Road, Tangxia Town dongguan, Guangdong Province

Trade Mark : trswyop, AXNEB FOCHEW, swyop

EUT : Power Bank

Model No. : HX160Q2

Power Supply : Type-C Input: 5V $\overline{=}$ 3A, 9V $\overline{=}$ 2A(Max)
Micro Input: 5V $\overline{=}$ 2.1A, 9V $\overline{=}$ 2A

Measurement Procedure Used:

FCC Rules and Regulations Part 18 Subpart C
MP-5: 1986

The device described above is tested by Dong Guan Anci Electronic Technology Co., Ltd. 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 Dong Guan Anci Electronic Technology Co., Ltd. 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 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Dong Guan Anci Electronic Technology Co., Ltd.

Date of Test : Feb. 22, 2022 to Mar. 01, 2022

Prepared by : 
Tomas Yang/Supervisor

Approved & Authorized Signer : 
Alan He/Manager



Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	E01A22020109F00101	/	Original Version

1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Disturbance at Mains Terminals	FCC Part 18 Subpart C FCC OST MP-5: 1986	Pass
Radiated Disturbance	FCC Part 18 Subpart C FCC OST MP-5: 1986	Pass
Note: N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	: Power Bank
Model Number	: HX160Q2
Test Number	: HX160Q2
Test Voltage	: AC 120V 60Hz for Adapter
Adapter Information (Provided by the laboratory)	: Model:CD127 Input: AC 100-240V, 50/60Hz Output: DC 5V/3A,DC 9/3A,DC 12V/2.5A
Operating Frequency	: 110-205KHz
Modulation Technique	: ASK
Max Wireless output power	: 15W
Operation Mode	: Wireless Charging
Antenna	: Induction coil
Applicant	: Dongguan Haoxun Electronic Technology Co., Ltd.
Address	: Room 301, Building 1, No. 4, Shigu Longkou Road, Tangxia Town dongguan, Guangdong Province
Manufacturer	: Dongguan Haoxun Electronic Technology Co., Ltd.
Address	: Room 301, Building 1, No. 4, Shigu Longkou Road, Tangxia Town dongguan, Guangdong Province
Date of Received	: Feb. 22, 2022
Date of Test	: Feb. 22, 2022 to Mar. 01, 2022

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
0	Power Input Port	I/O	--	--	1 Port

* Note: Use abbreviations:

AC= AC Power Port

DC= DC Power Port

N/E= Non-Electrical

I/O= Signal Input or Output Port (Not Involved in Process Control)

TP= Telecommunication Ports

2.3. Independent Operation Modes

Wireless Charging

2.4. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted Emission	AC120V/60Hz	Wireless Charging	Wireless Charging 15W
Radiated Emission	AC120V/60Hz	Wireless Charging	Wireless Charging 15W

2.5. Description of 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

: Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China.

2.6. Test Software

Item	Software
Conducted Disturbance at : Mains Terminals	EZ-EMC Ver:ANCI-3A1
Radiated Disturbance	: EZ-EMC Ver:ANCI-3A1

2.7. Description of Support Device

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1.	iPhone	Apple Inc.	A1387	N/A	N/A
2.	Adapter	N/A	ASSA10W-150430	N/A	N/A
3.	Wireless Charging Receiver Module	Universal	N/A	N/A	N/A
4.	Xiaomi 9	MI	Xiaomi 9	N/A	N/A
5.	SAMSUNG S9	SAMSUNG	Samsung Galaxy S9	N/A	N/A

2.8. Measurement 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%

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

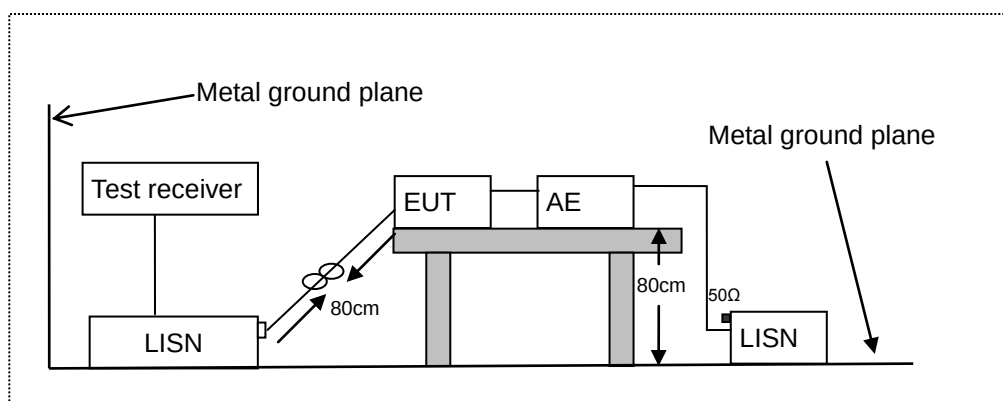
Item	EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
1.	L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2022-05-23
2.	10 db attenuator	JFW	50FP-010-H4	4360846-427-1	2022-05-23
3.	RF Cable	N/A	N/A	2#	2022-05-23
4.	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2022-05-23

3.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
5.	EMI Test Receiver	Rohde & Schwarz	ESPI	100502	2022-11-12
6.	Pre-Amplifier	HP	8447D	2727A06172	2022-05-23
7.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2022-05-23
8.	Loop Antenna	Schwarzbeck	FMZB 1516	1516-141	2022-05-23
9.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2022-11-12
10.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2022-11-12
11.	RF Cable	N/A	N/A	6#	2022-05-23
12.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2022-05-23
13.	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	N/A	N/A

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network

AE: Associated equipment

EUT: Equipment under test

4.2. Measuring Standard

FCC Part 18 and MP-5

4.3. Power Line Conducted Emission Limits

☐ All induction cooking ranges and ultrasonic equipment:

Frequency range (MHz)	Limit dB(uV)	
	Quasi-peak	Average
0.09-0.05	110	---
0.05-0.15	90-80*	---
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Remark: * Decreases with the logarithm of the frequency.
In the above table, the tighter limit applies at the band edges.

■ All other part 18 consumer devices:

Frequency range (MHz)	Limit dB(uV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Remark: * Decreases with the logarithm of the frequency.
In the above table, the tighter limit applies at the band edges.

■ RF lighting devices:

Frequency range (MHz)	Maximum RF line voltage measured with a 50 uH/50 ohm LISN(uV)
0.45-1.6	1000
1.6-30	3000
Consumer equipment	
0.45-2.51	250
2.51-3.0	3000
3.0-30	250

4.4. EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet FCC requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

EUT : MAGNETIC WIRELESS CHARGER
Model Number : HX160Q2

4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown on Section 4.1.

4.5.2. Turn on the power of all equipment.

4.5.3. Let the EUT work in measuring mode (Wireless Charging) and measure it.

4.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the FCC regulations during conducted emission measurement.

The bandwidth of the Test Receiver is set at 9kHz in 150kHz~30MHz and 200Hz in 9kHz~150kHz.

The frequency range from 9kHz to 30MHz is investigated.

Test results were obtained from the following equation:

Emission Level (dBμV) = LISN Factor (dB) + Cable Loss (dB) + Reading (dBμV)

Margin (dB) = Emission Level (dBμV) - Limit (dBμV)

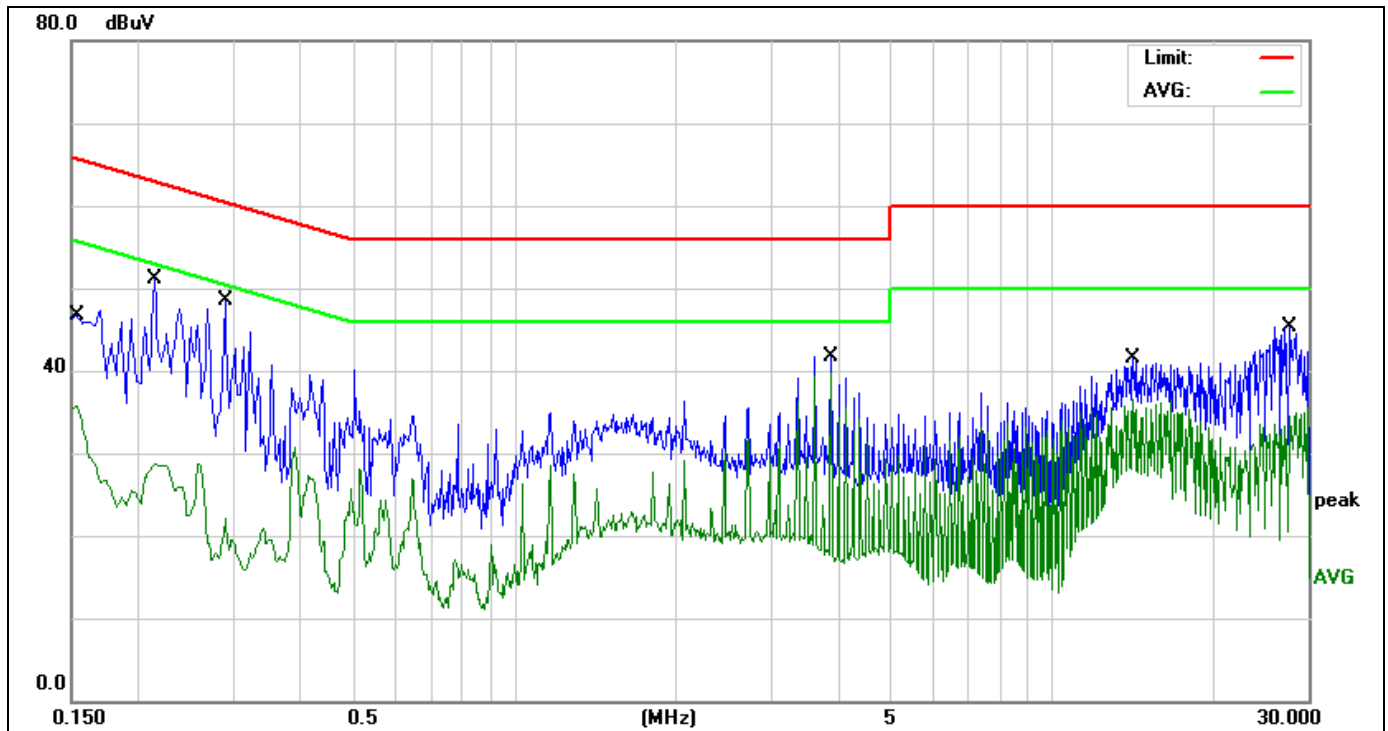
All the scanning waveform is put in the following pages.

4.7. Measuring Results

Pass.

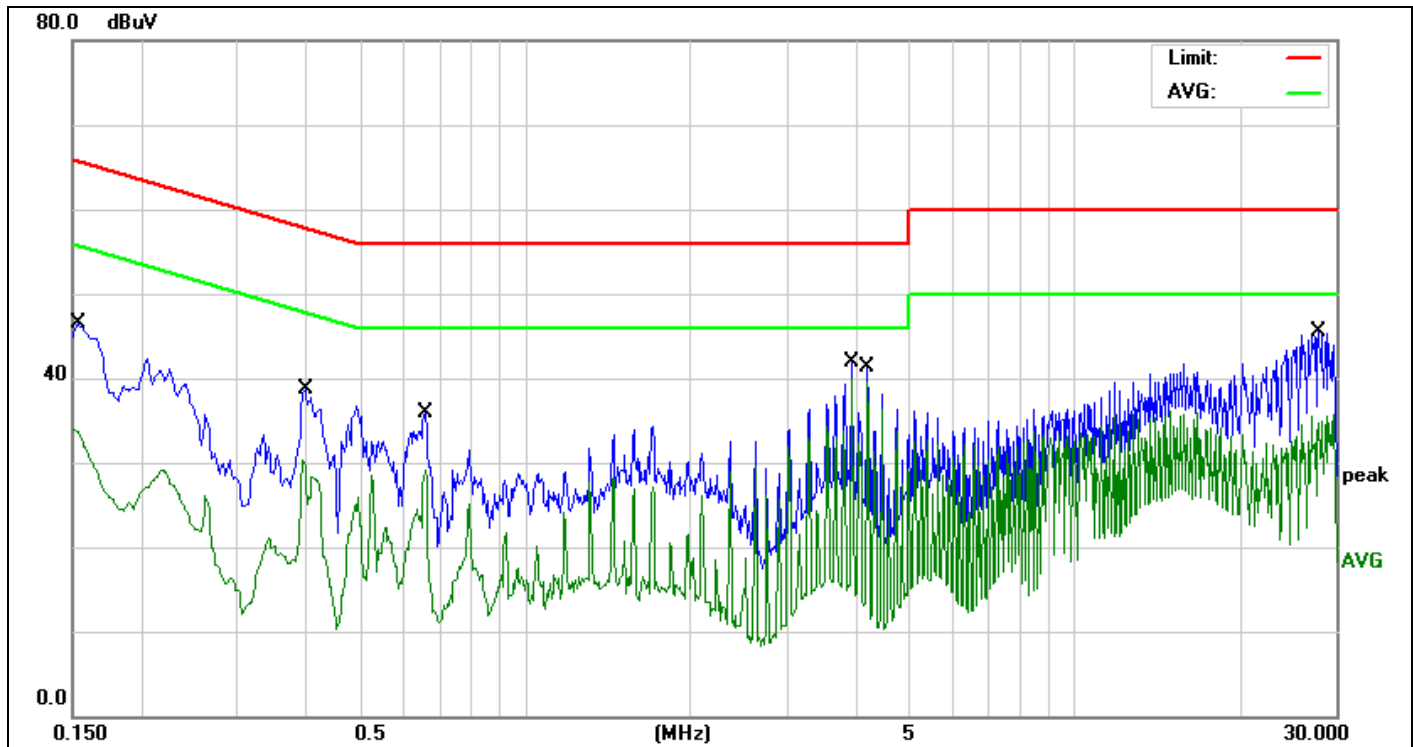
Please refer to following pages.

Wireless Charging 15W:



Site:	843	Phase:	L1	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)			Humidity(%):	60%
EUT:	Power Bank	Test Time:	2022-02-25		
M/N.:	HX160Q2	Power Rating:	AC 120V/60Hz		
Mode:	Wireless Charging 15W	Test Engineer:	Jack		
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1539	32.71	10.30	43.01	65.78	-22.77	QP	
2	0.1539	22.63	10.30	32.93	55.78	-22.85	AVG	
3	0.2140	26.01	10.30	36.31	63.04	-26.73	QP	
4	0.2140	16.69	10.30	26.99	53.04	-26.05	AVG	
5	0.2900	20.30	10.32	30.62	60.52	-29.90	QP	
6	0.2900	7.63	10.32	17.95	50.52	-32.57	AVG	
7	3.8860	13.72	10.50	24.22	56.00	-31.78	QP	
8	3.8860	29.19	10.50	39.69	46.00	-6.31	AVG	
9	14.1460	21.36	11.14	32.50	60.00	-27.50	QP	
10	14.1460	25.41	11.14	36.55	50.00	-13.45	AVG	
11	27.6500	7.20	11.87	19.07	60.00	-40.93	QP	
12	27.6500	21.12	11.87	32.99	50.00	-17.01	AVG	

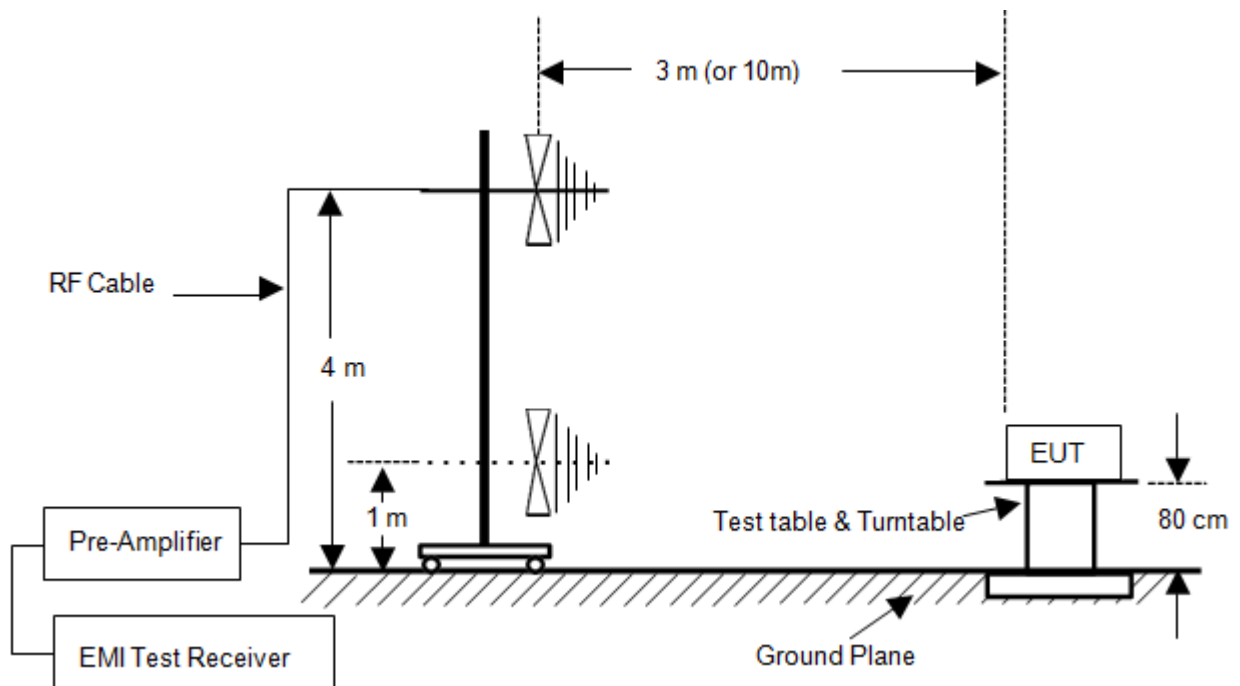
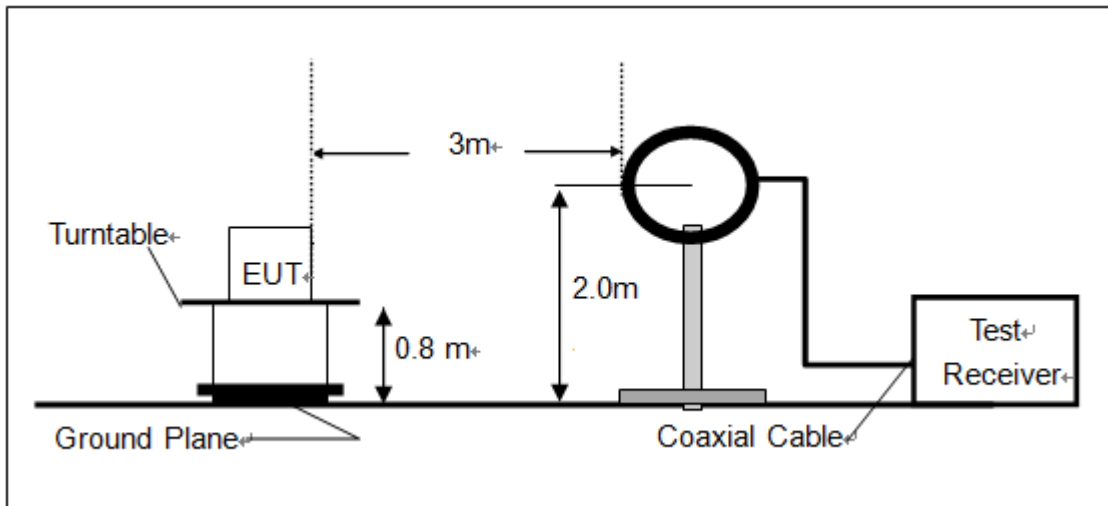


Site:	843	Phase:	N	Temperature(C):	26(C)
Limit:	FCC Part 18 C Conduction(QP)	Test Time:	2022-02-25	Humidity(%):	60%
EUT:	Power Bank	Power Rating:	AC 120V/60Hz		
M/N.:	HX160Q2	Test Engineer:	Jack		
Mode:	Wireless Charging 15W				
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1539	32.42	10.30	42.72	65.78	-23.06	QP	
2	0.1539	22.55	10.30	32.85	55.78	-22.93	AVG	
3	0.3980	24.57	10.28	34.85	57.89	-23.04	QP	
4	0.3980	19.95	10.28	30.23	47.89	-17.66	AVG	
5	0.6580	18.75	10.39	29.14	56.00	-26.86	QP	
6	0.6580	18.76	10.39	29.15	46.00	-16.85	AVG	
7	3.9420	10.29	10.50	20.79	56.00	-35.21	QP	
8	3.9420	29.46	10.50	39.96	46.00	-6.04	AVG	
9	4.2020	8.61	10.52	19.13	56.00	-36.87	QP	
10	4.2020	29.02	10.52	39.54	46.00	-6.46	AVG	
11	27.9820	14.85	11.89	26.74	60.00	-33.26	QP	
12	27.9820	22.85	11.89	34.74	50.00	-15.26	AVG	

5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. Measuring frequency range

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz.	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz.	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower.	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower.	Tenth harmonic.
Above 1,000	do	Tenth harmonic or highest detectable emission.

Remark: 1.The operates frequency of MAGNETIC WIRELESS CHARGER is more than 1.705MHz, so the test frequency range is 9KHz to 1000MHz.

5.3. Radiated Emission Limits

■ Table 1

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
■ Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25 x SQRT (power/500)	300 (1)300
	Any NON-ISM frequency	Below 500 500 or more	15 15 x SQRT (power/500)	300 (1)300
☐ Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (2)	1600 (2)
☐ Medical diathermy	Any ISM frequency Any non- ISM frequency	Any Any	25 15	300 300
☐ Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz)x SQRT(power/500)	300 (3)300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	2,400/F(kHz) 15	30 30
☐ Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	(4)30 (4)30

- (1) Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
- (2) Reduced to the greatest extent possible.
- (3) Field strength may not exceed 10 μ V/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
- (4) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

Note : The field strength limit and distance shown in the following Table 2 are the conversion of the requirement in Table 1.

☐ Table 2

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (dBuV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	57.5	10

☐ The for RF lighting devices field strength limits

Frequency (MHz)	Field strength limit at 30 meters (μV/m)
Non-consumer equipment:	
30-88	30
88-216	50
216-1000	70
Consumer equipment:	
30-88	10
88-216	15
216-1000	20

Notes: The tighter limit shall apply at the boundary between two frequency ranges.

5.4. EUT Configuration on Measurement

The FCC Class B regulations test method must be used to find the maximum emission during radiated emission measurement.

EUT : MAGNETIC WIRELESS CHARGER
Model Number : HX160Q2

5.5. Operating Condition of EUT

5.5.1. Setup the EUT as shown on Section 5.1.

5.5.2. Turn on the power of all equipment.

5.5.3. Let the EUT work in measuring mode (Wireless Charging) and measure it.

5.6. Test Procedure

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 2 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

200Hz for measurements below 150 kHz
9 kHz for measurements from 150 kHz to 30MHz
100 kHz for measurements from 30MHz to 1000MHz

Emission Level (dBμV) = Antenna Factor (dB) + Cable Loss (dB) + Reading (dBμV)
Margin (dB) = Emission Level (dBμV) - Limit (dBμV)

The worst scanning curves are attached in following pages.

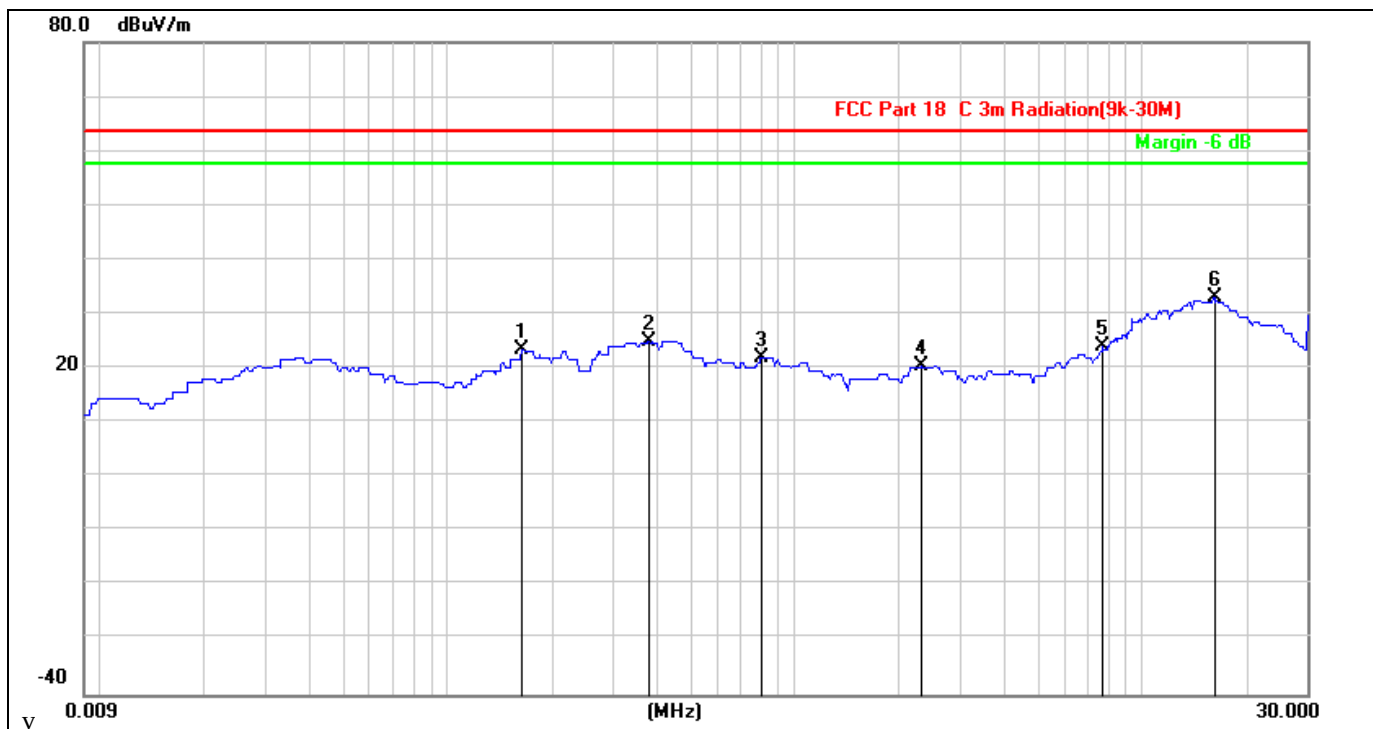
5.7. Measuring Results

PASS.

The frequency range from 9KHz to 1000MHz is investigated.

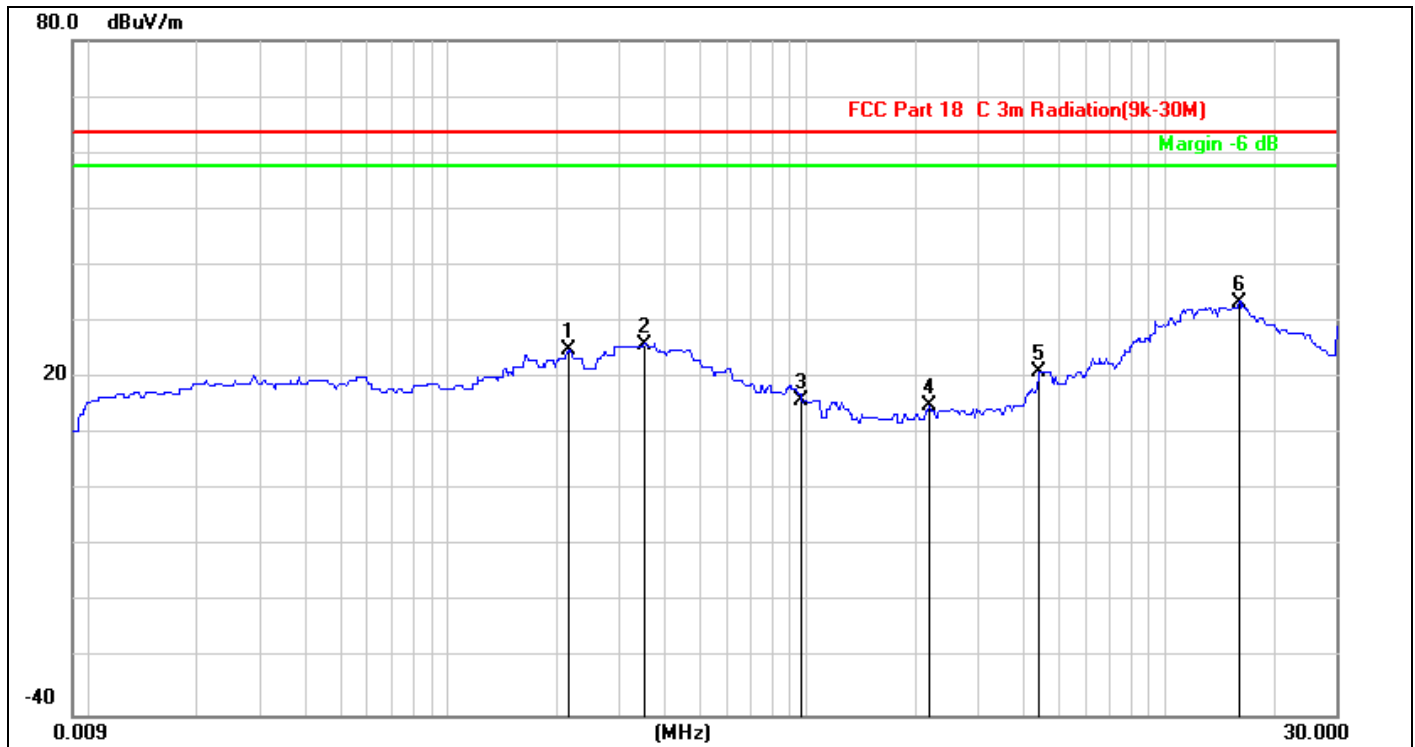
Peak for pre-scan, Average for the final result.

Please refer to following pages.

Test mode: Wireless Charging(15W)


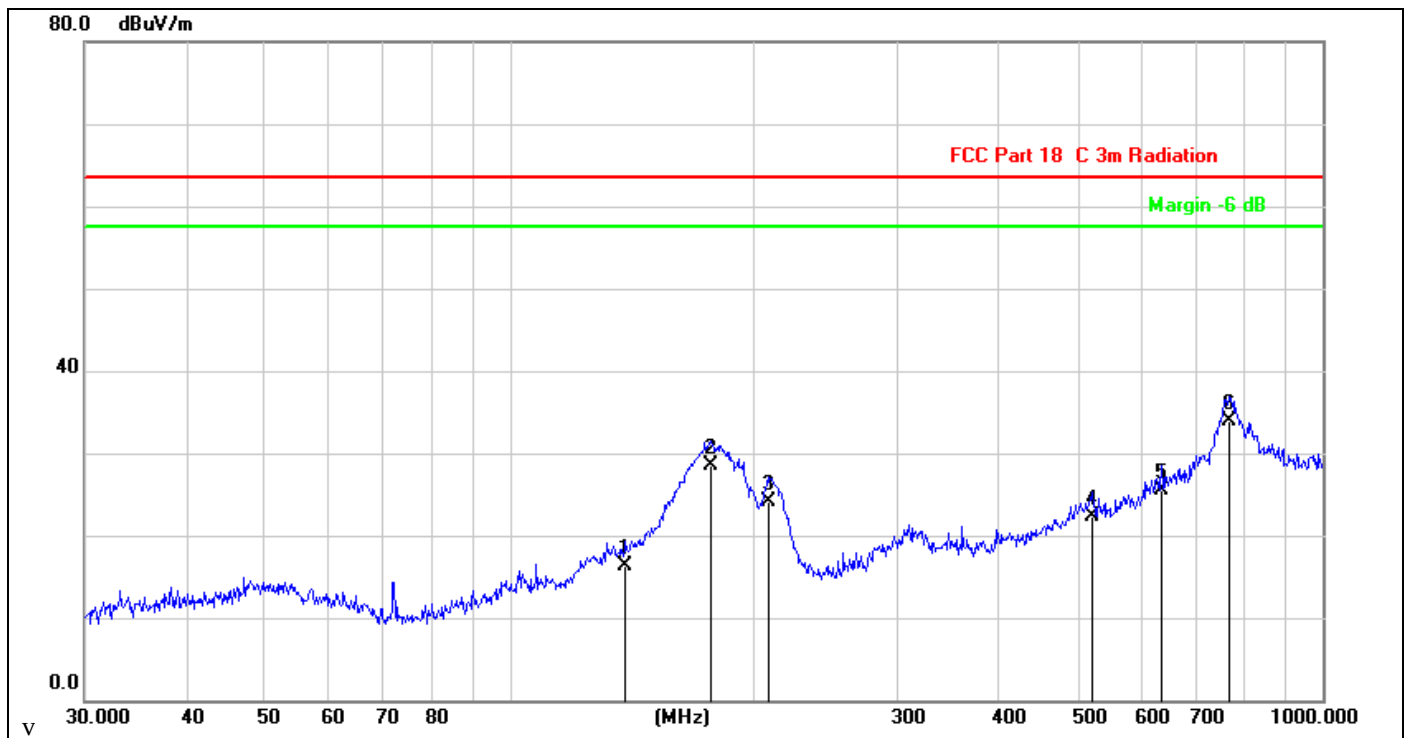
Site:	LAB	Antenna::Horizontal	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)		Humidity(%):53.6%
EUT:	Power Bank	Test Time:	2022-02-25
M/N.:	HX160Q2	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W	Test Engineer:	sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1642	48.13	-24.63	23.50	63.50	-40.00	QP	
2	0.3786	50.08	-25.08	25.00	63.50	-38.50	QP	
3	0.7986	47.99	-25.99	22.00	63.50	-41.50	QP	
4	2.3302	46.88	-26.38	20.50	63.50	-43.00	QP	
5	7.7411	50.13	-26.13	24.00	63.50	-39.50	QP	
6 *	16.0641	58.86	-25.86	33.00	63.50	-30.50	QP	



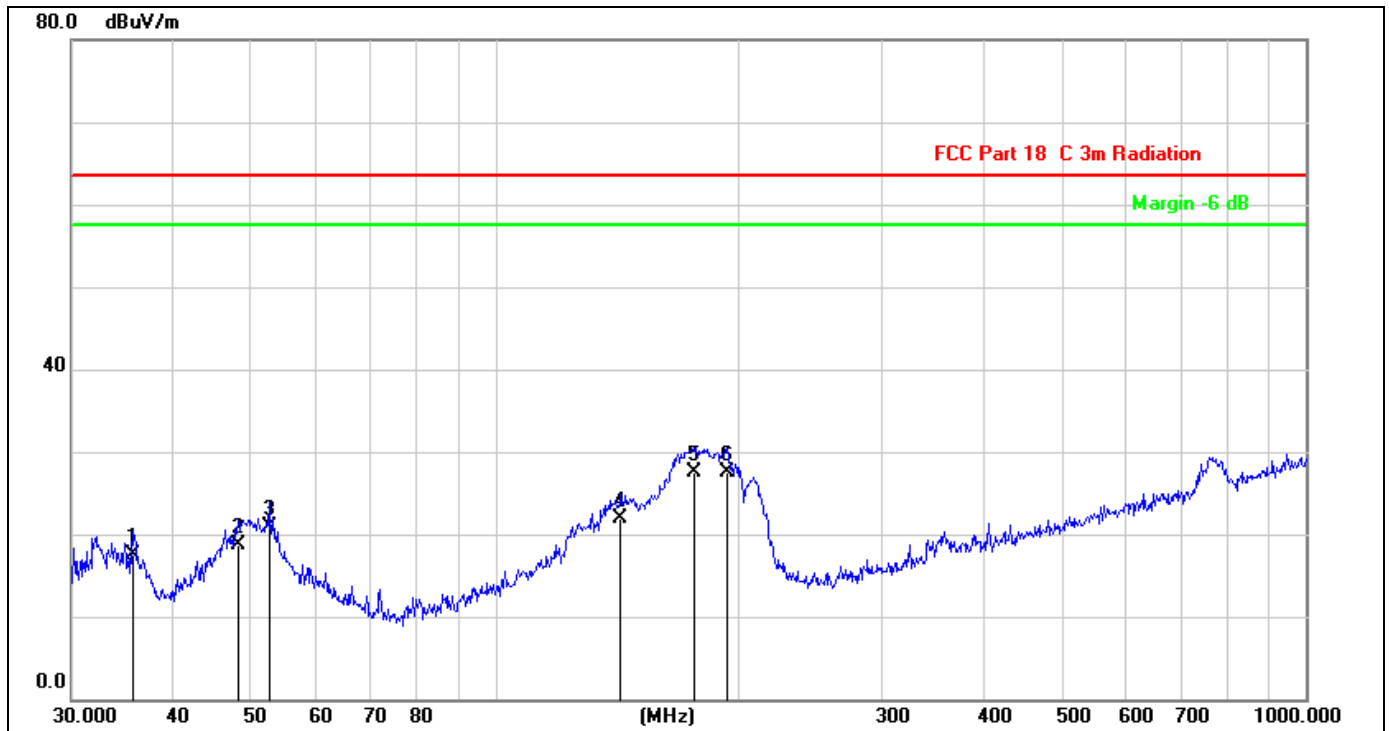
Site:	LAB	Antenna::Vertical	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Power Bank	Power Rating:	2022-02-25
M/N.:	HX160Q2	Test Engineer:	AC 120V/60Hz
Mode:	Wireless Charging 15W		sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.2179	49.74	-24.74	25.00	63.50	-38.50	QP	
2	0.3518	51.02	-25.02	26.00	63.50	-37.50	QP	
3	0.9704	42.35	-26.35	16.00	63.50	-47.50	QP	
4	2.2017	41.39	-26.39	15.00	63.50	-48.50	QP	
5	4.4591	47.29	-26.29	21.00	63.50	-42.50	QP	
6 *	16.0640	59.36	-25.86	33.50	63.50	-30.00	QP	



Site:	LAB	Antenna::Horizontal	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)	Test Time:	Humidity(%):53.6%
EUT:	Power Bank	Power Rating:	2022-02-25
M/N.:	HX160Q2	Test Engineer:	AC 120V/60Hz
Mode:	Wireless Charging 15W		sunshine
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	138.8735	30.95	-14.61	16.34	63.50	-47.16	QP	
2	176.8878	41.10	-12.60	28.50	63.50	-35.00	QP	
3	207.8501	34.93	-10.85	24.08	63.50	-39.42	QP	
4	520.8882	27.18	-4.88	22.30	63.50	-41.20	QP	
5	633.9073	28.65	-3.19	25.46	63.50	-38.04	QP	
6	768.7481	35.10	-1.23	33.87	63.50	-29.63	QP	

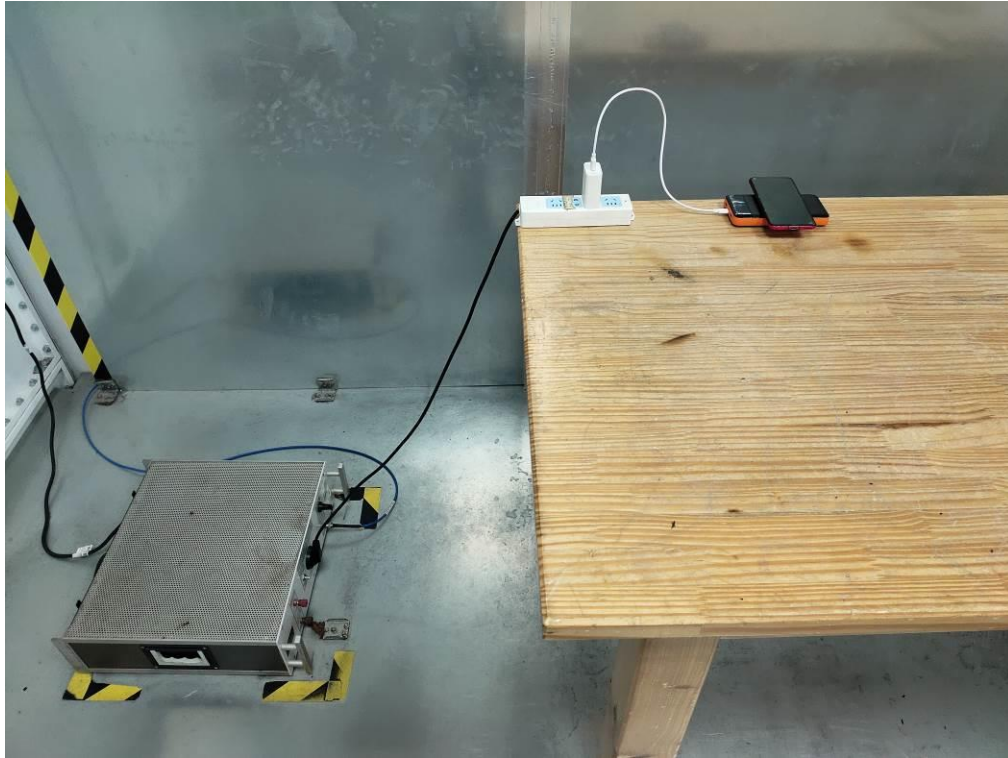


Site:	LAB	Antenna::Vertical	Temperature(C):24.2(C)
Limit:	FCC Part18C 3m Radiation(QP)		Humidity(%):53.6%
EUT:	Power Bank	Test Time:	2022-02-25
M/N.:	HX160Q2	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W	Test Engineer:	sunshine
Note:			

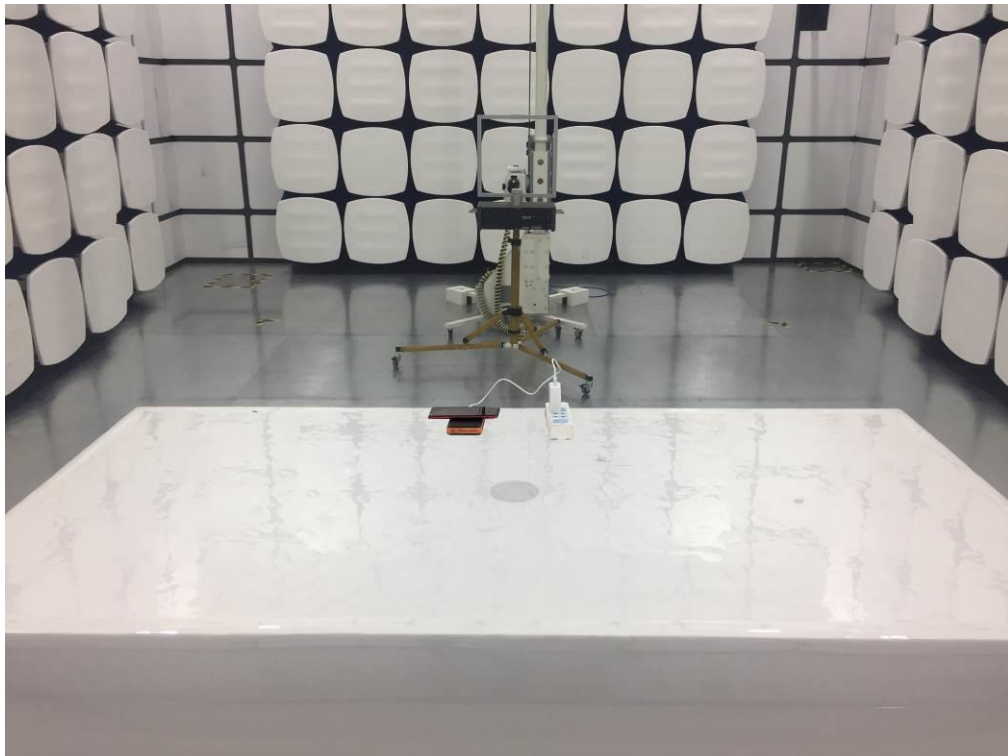
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	35.7490	31.23	-13.81	17.42	63.50	-46.08	QP	
2	48.1626	30.54	-11.92	18.62	63.50	-44.88	QP	
3 *	52.5753	32.96	-12.02	20.94	63.50	-42.56	QP	
4	142.8243	36.64	-14.68	21.96	63.50	-41.54	QP	
5	175.6516	40.25	-12.73	27.52	63.50	-35.98	QP	
6	193.0945	38.85	-11.30	27.55	63.50	-35.95	QP	

6. PHOTOGRAPHS

6.1.Photos of Conducted Emission Measurement



6.2.Photos of Radiation Emission Measurement





APPENDIX A: Warning Labels

Label Requirements

Products authorized under SDOC and Part 18 required to include a compliance statement similar to the following:

“This device complies with Part 18 of the FCC Rules.”

The compliance information may be placed in the instruction manual, on a separate sheet, on the packaging, or electronically as permitted in Section 2.935. There is no specific format for this information. The placing of this or similar statement will also comply with the requirements of Section 2.1077(a) (2).

Devices authorized under the SDOC procedure have the option to use the FCC logo to indicate compliance with the FCC rules, and the logo may be included in the instruction materials or as part of an e-label.



The FCC logo shall only be used on a product that has been tested, evaluated, and found to be compliant in accordance with the SDOC procedures. The use of the FCC logo on the device does not mitigate the requirement to provide a means to uniquely identify the product or to provide the required compliance information statement. The FCC logo cannot be used on products that are exempt from an authorization by rule unless the SDOC procedure has been fully applied for the product.

APPENDIX B: Warning Statement

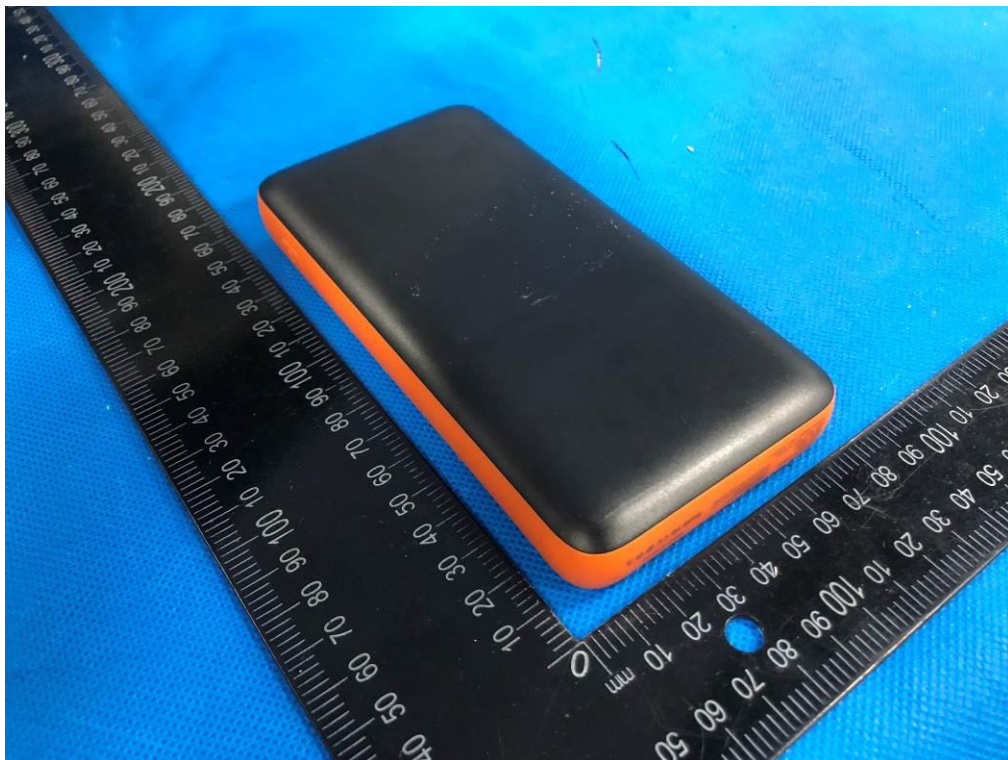
Statement Requirements

For devices approved under Part 18, information on the following shall be provided to the user in the instruction manual, or on the packaging if an instruction manual is not provided (Section 18.213): • The interference potential of the device or system.

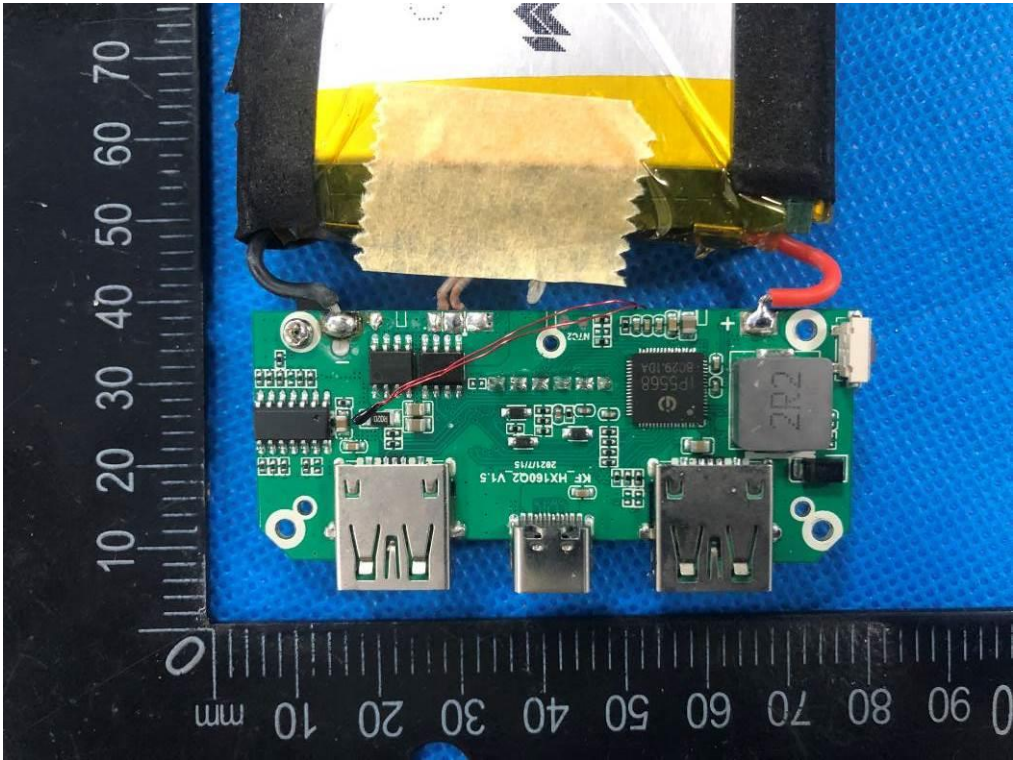
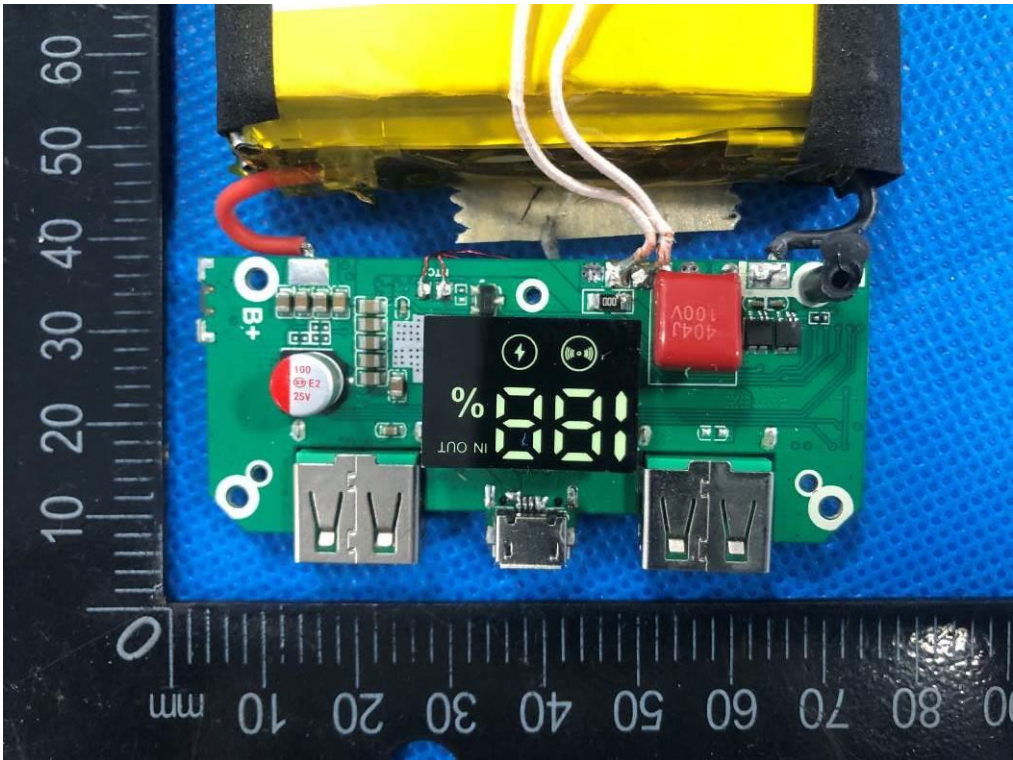
- Maintenance of the system.
- Simple measures that can be taken by the user to correct interference.
- For RF lighting devices, provide an advisory statement, either on the product packaging or with other user documentation, similar to the following:

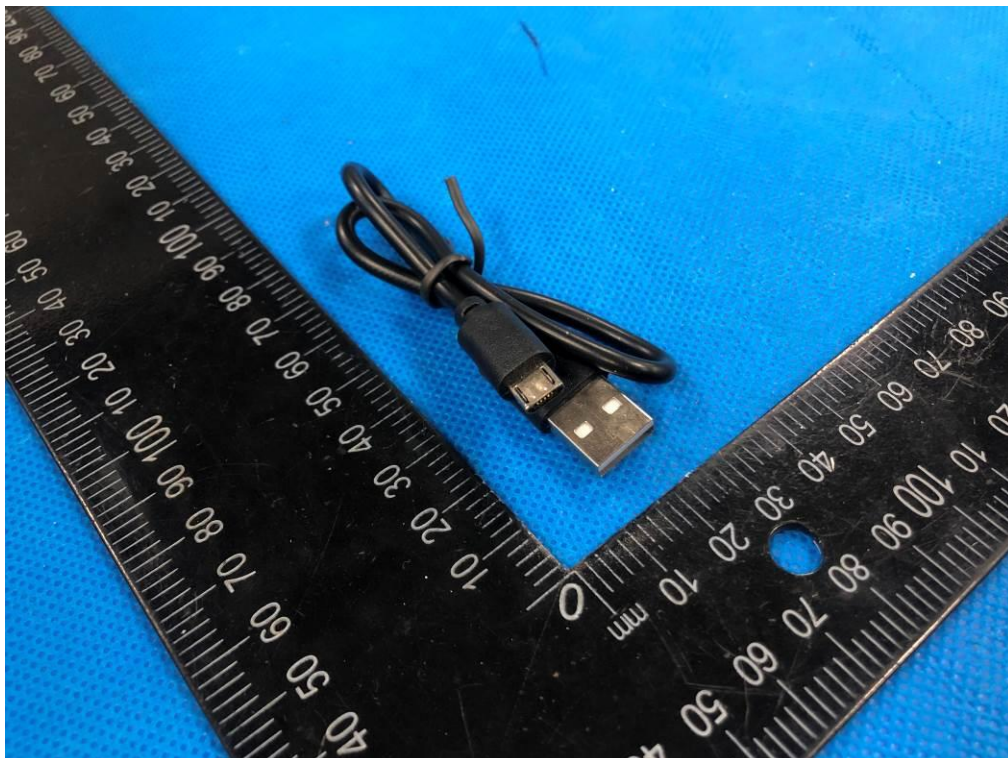
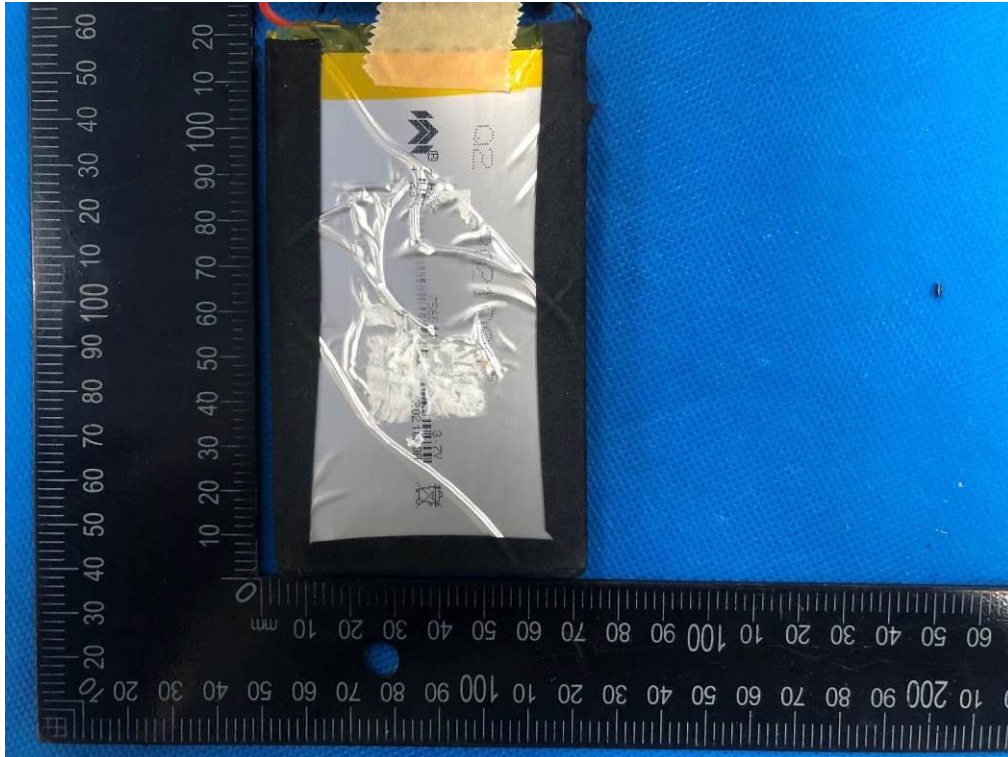
This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz.

Variations of this language are permitted provided all the points of the statement are addressed, and may be presented in any legible font or text style.

APPENDIX C: Photos of EUT







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