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

OF

15W Wireless charger Stand

Model No.: F1

FCC ID: 2BDED-F1

Report No.: E04A23111107F00101

Issue Date: December 10, 2023

Prepared for

HAITIANGAO TECH CO., LIMITED

SHOP 185 G/F HANG WAI IND CTR NO 6 KIN TAI ST TUEN MUN NT

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People’s Republic of China, 523808

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VERIFICATION OF COMPLIANCE

Applicant:	HAITIANGAO TECH CO., LIMITED SHOP 185 G/F HANG WAI IND CTR NO 6 KIN TAI ST TUEN MUN NT
Manufacturer:	SHENZHEN GTL TECHNOLOGY CO.,LTD 2/F&6/F of Building B11, Hengfeng Industrial Park, Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China, 518126
Product Description:	15W Wireless charger Stand
Trade Mark:	/
Model Number:	F1

We hereby certify that:

The above equipment was tested by Guangdong Global Testing 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(2022).

Date of Test : December 5, 2023 to December 8, 2023

Prepared by : _____
Alan He/Editor

Reviewer & Authorized Signer : _____
Shawn Wen/ Laboratory Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E04A23111107F00101

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	15W Wireless charger Stand
Model number	F1
Operation Mode	Wireless Charging
Input Rating	USB-C: 5V⎓3A / 9V⎓2A
Power Supply	DC 5V/9V
Operating Frequency	110-205KHz for phone charging
Wireless Charging Power	15W(Max) for phone charging
Modulation Technique	FSK for phone charging
Antenna Type	Coil Antenna
Software version	V1.0
Hardware version	V1.0
Sample receipt date	December 5, 2023

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2BDED-F1 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

Name of Firm	:	Guangdong Global Testing Technology Co., Ltd.
Site Location	:	Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People′ s Republic of China, 523808.

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

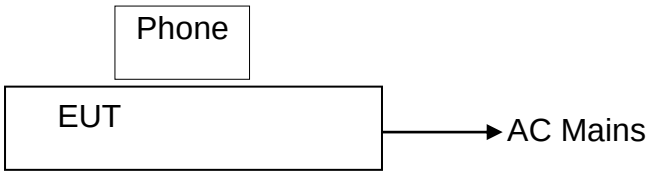


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	15W Wireless charger Stand	/	F1	2BDED-F1	***EUT***
2.	Adapter	/	580245A087	N/A	***Support Equipment***
3.	phone	Apple	A2176	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
20dB Bandwidth	±9.2ppm
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Temperature	±0.5℃
Humidity	±3%

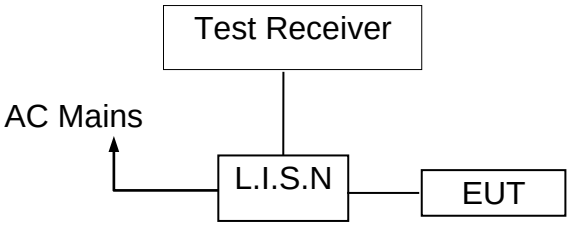
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%

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	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2022/12/03	2023/12/02
LISN/AMN	Rohde & Schwarz	ENV216	102843	2023/09/18	2024/09/17
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2023/03/30	2024/03/29
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

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

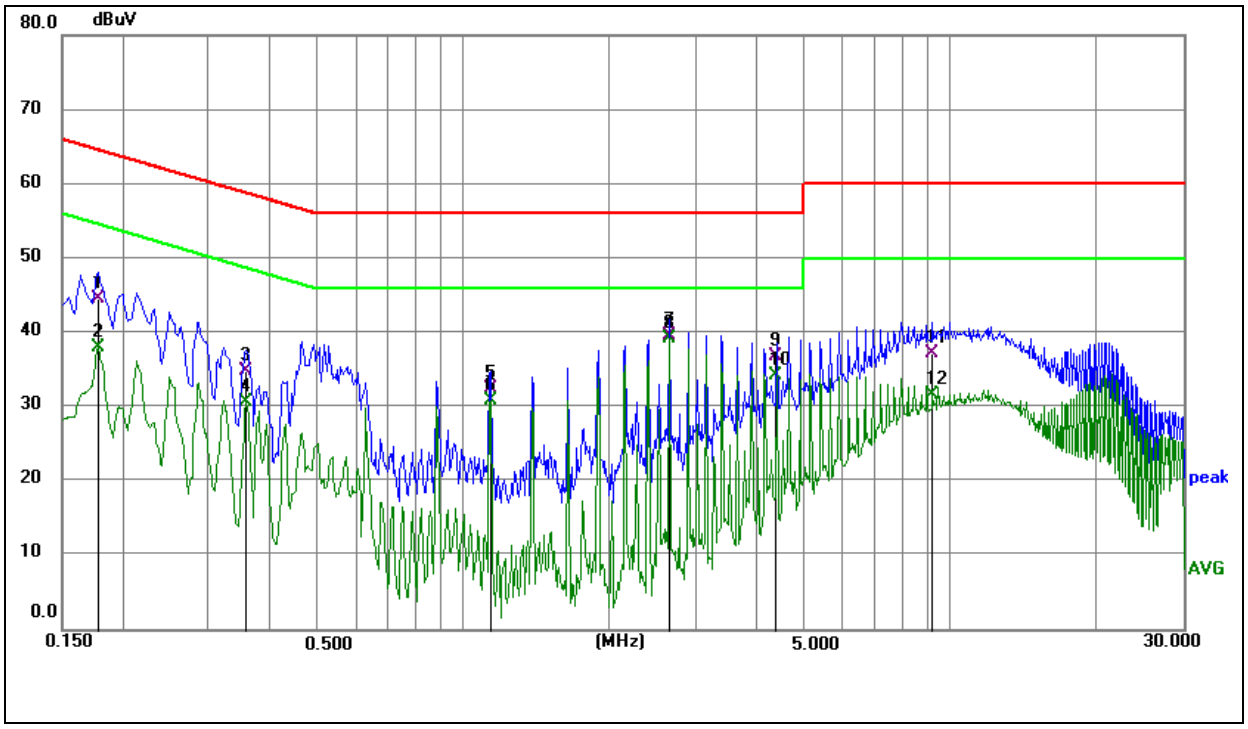
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.5 Measurement Result

Operation Mode:	TX	Test Date :	2023/12/5
Frequency Range:	0.15MHz~30MHz	Temperature :	25.3℃
Test Result:	PASS	Humidity :	52 %RH
Test By:	Fink		

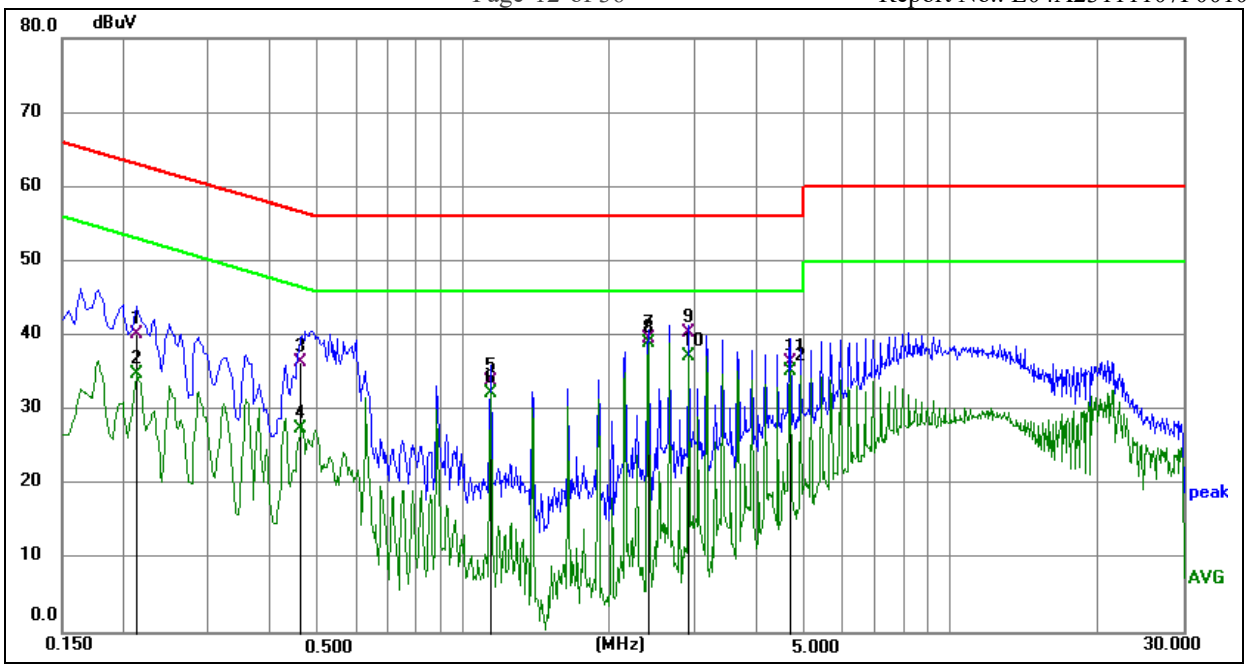
We pretested modes (Wireless Charging(15W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 15W



Limit:	**FCC Part 15 C Conduction**	**Phase:**	**L1**
EUT:	**15W Wireless charger Stand**	**Test Time:**	**2023/12/5**
M/N.:	**F1**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Wireless Charging 15W**	**Test Engineer:**	**Fink**

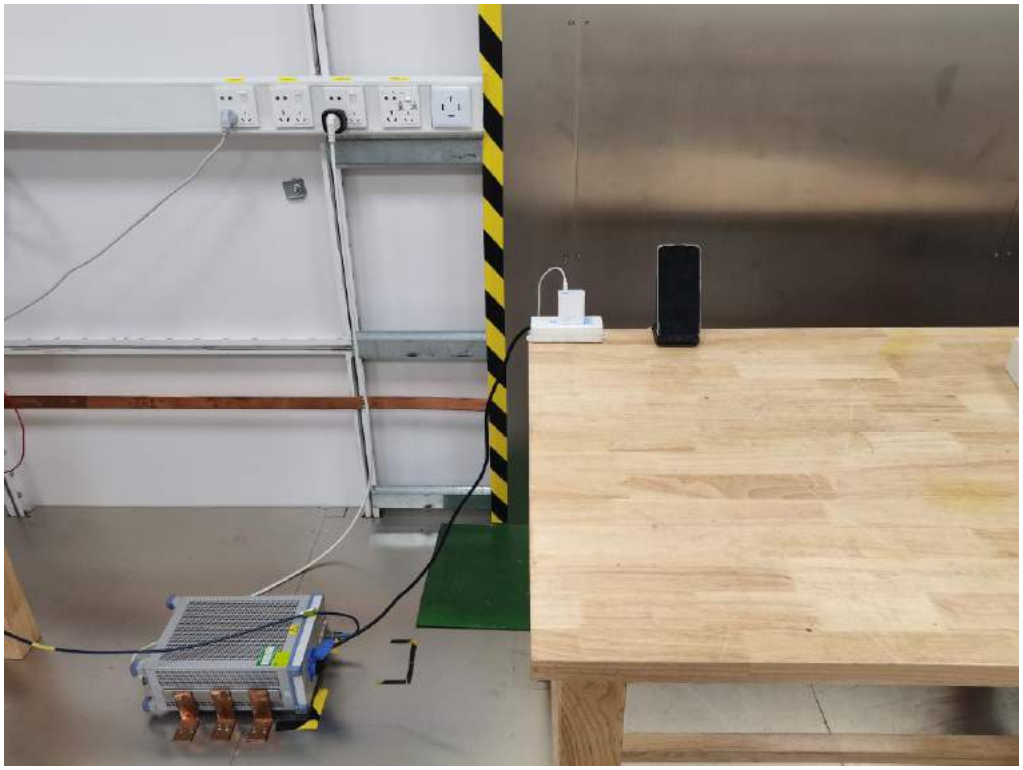
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1770	34.71	9.92	44.63	64.63	-20.00	QP	
2	0.1770	28.01	9.92	37.93	54.63	-16.70	AVG	
3	0.3570	24.90	9.95	34.85	58.80	-23.95	QP	
4	0.3570	20.69	9.95	30.64	48.80	-18.16	AVG	
5	1.1355	22.31	10.05	32.36	56.00	-23.64	QP	
6	1.1355	20.75	10.05	30.80	46.00	-15.20	AVG	
7	2.6520	29.60	10.08	39.68	56.00	-16.32	QP	
8	2.6520	29.07	10.08	39.15	46.00	-6.85	AVG	
9	4.4069	26.64	10.22	36.86	56.00	-19.14	QP	
10	4.4069	23.95	10.22	34.17	46.00	-11.83	AVG	
11	9.1950	26.37	10.89	37.26	60.00	-22.74	QP	
12	9.1950	20.85	10.89	31.74	50.00	-18.26	AVG	



Limit:	**FCC Part 15 C Conduction**	**Phase:**	**N**
EUT:	**15W Wireless charger Stand**	**Test Time:**	**2023/12/5**
M/N.:	**F1**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Wireless Charging 15W**	**Test Engineer:**	**Fink**

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.2130	30.27	9.93	40.20	63.09	-22.89	QP	
2	0.2130	24.86	9.93	34.79	53.09	-18.30	AVG	
3	0.4637	26.51	9.97	36.48	56.63	-20.15	QP	
4	0.4637	17.47	9.97	27.44	46.63	-19.19	AVG	
5	1.1355	23.66	10.12	33.78	56.00	-22.22	QP	
6	1.1355	22.12	10.12	32.24	46.00	-13.76	AVG	
7	2.4000	29.40	10.19	39.59	56.00	-16.41	QP	
8	2.4000	28.77	10.19	38.96	46.00	-7.04	AVG	
9	2.9040	30.21	10.20	40.41	56.00	-15.59	QP	
10	2.9040	26.98	10.20	37.18	46.00	-8.82	AVG	
11	4.6725	26.05	10.28	36.33	56.00	-19.67	QP	
12	4.6725	24.87	10.28	35.15	46.00	-10.85	AVG	

5.6 Conducted Measurement Photo



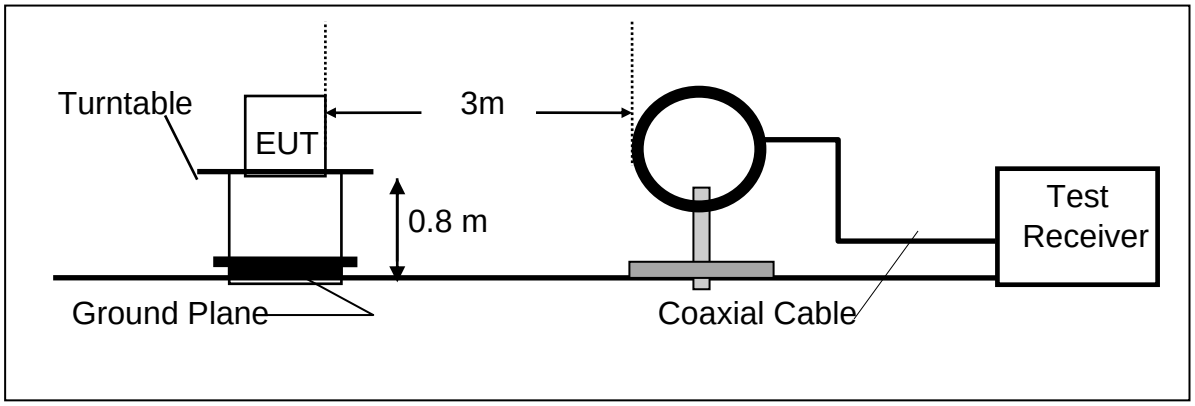
6 Radiated Emission Test

6.1 Measurement Procedure

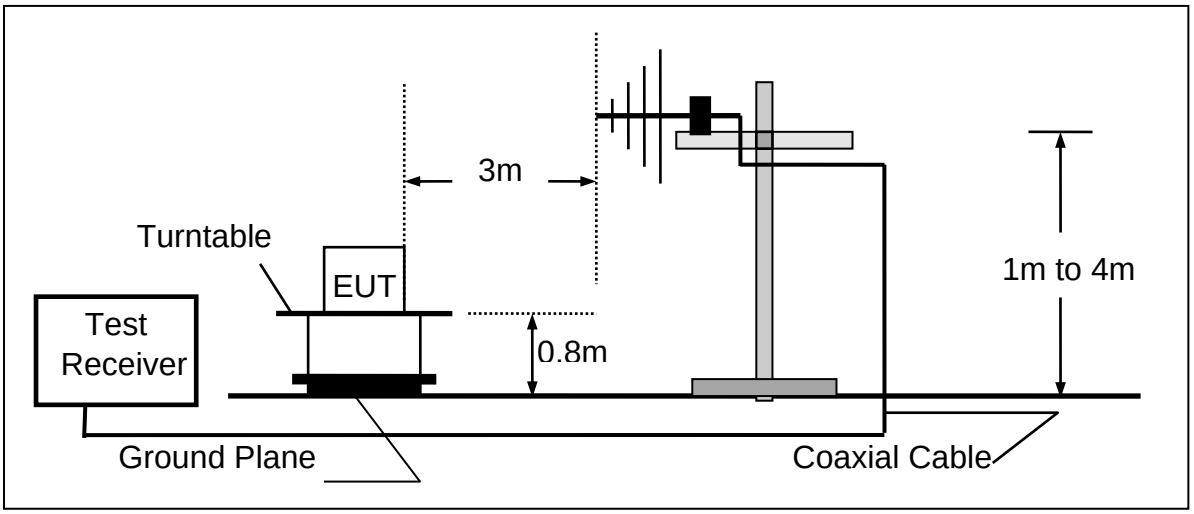
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2023/09/18	2024/09/17
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29
Test Software	Farad	EZ-EMC Ver:ANCI-3A1	N/A	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

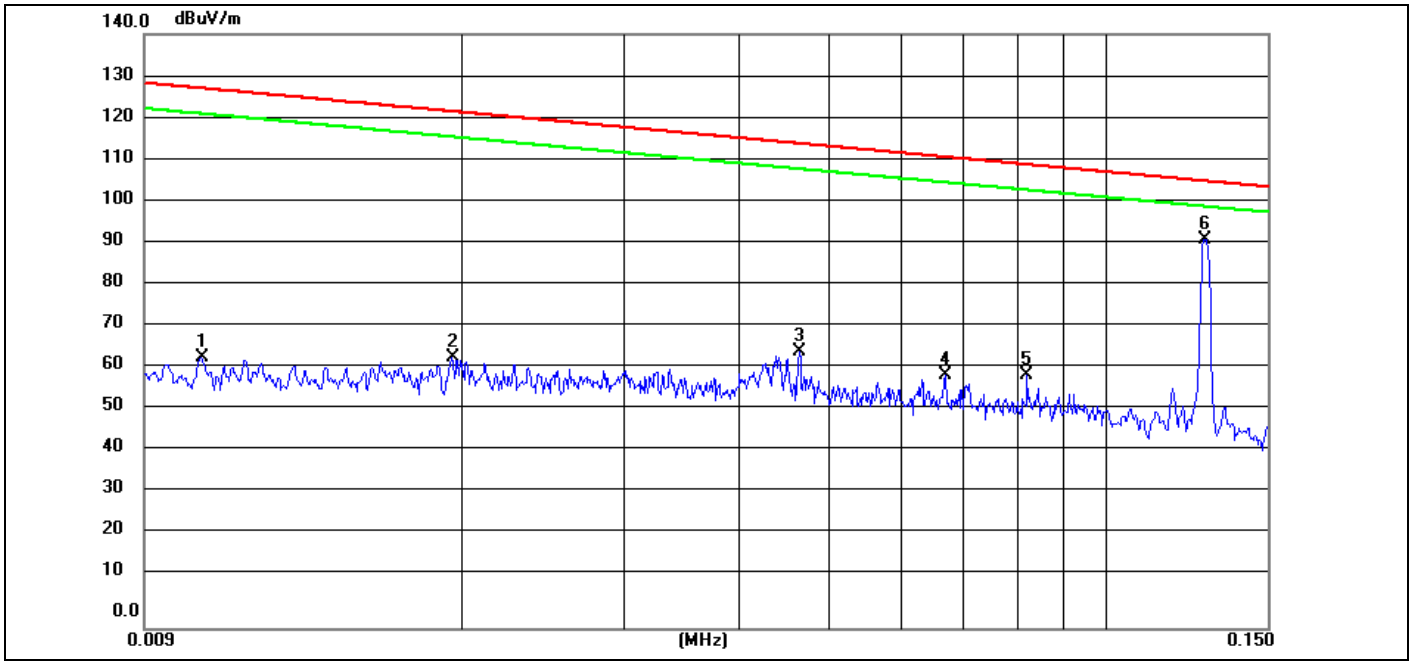
15.205 Restricted bands of operation

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.

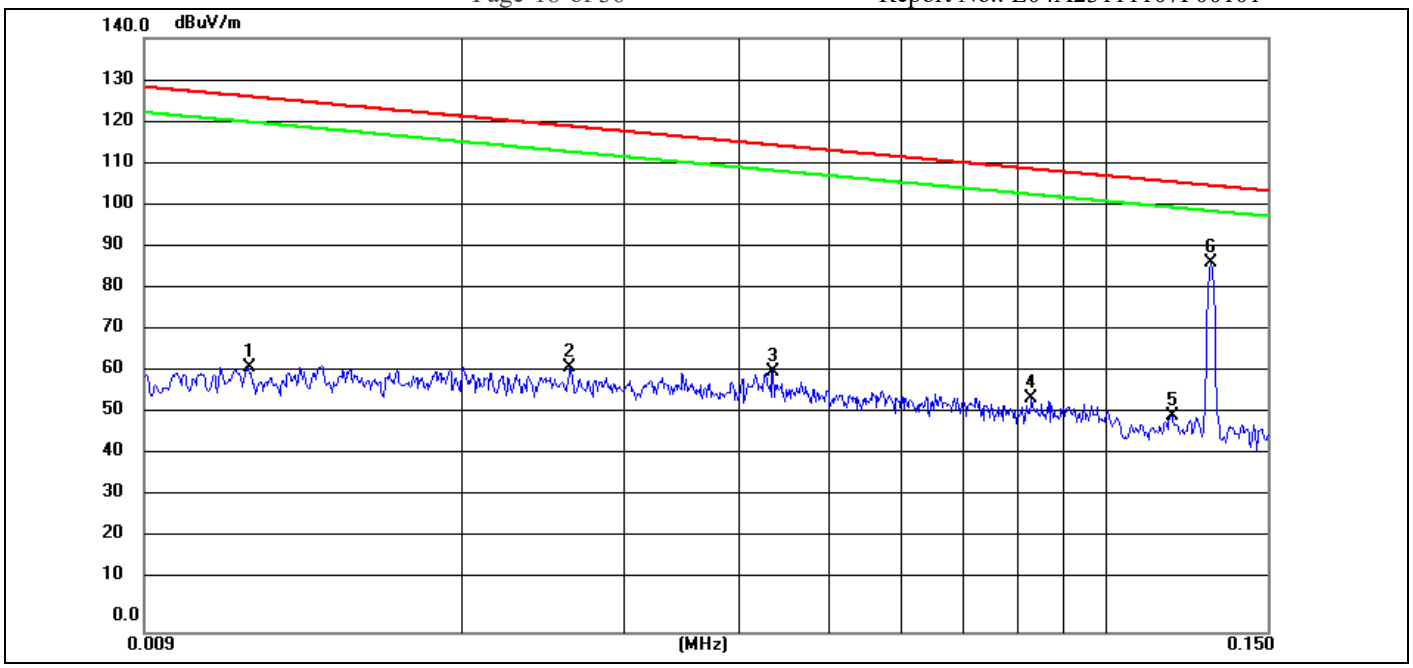
6.5 Measurement Result

We pretested modes (Wireless Charging(15W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst mode (Wireless Charging(15W)) test data see follow the table.



Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**coaxial**
EUT:	**15W Wireless charger Stand**	**Temperature:**	**24.3°C**
M/N.:	**F1**	**Humidity:**	**53.2%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Vier**	**Test Time:**	**2023/12/6**

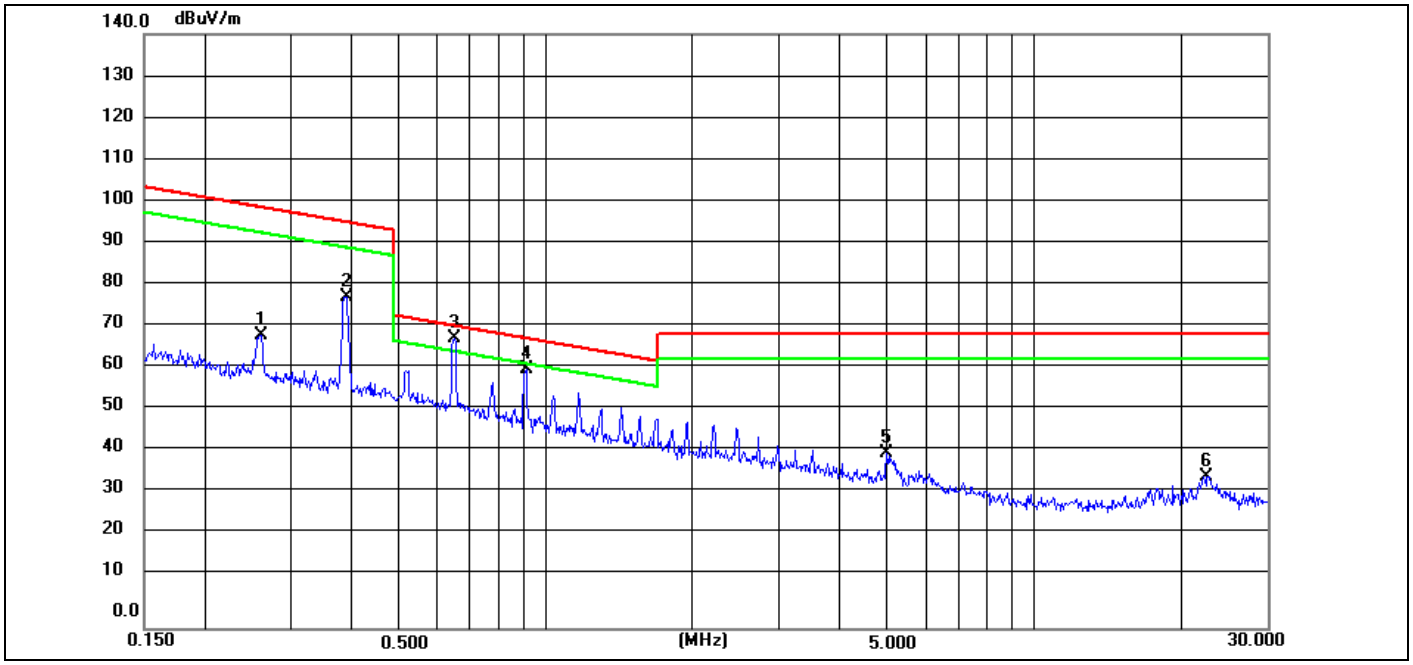
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0104	43.58	20.43	64.01	127.24	-63.23	peak
2	0.0195	43.59	20.30	63.89	121.79	-57.90	peak
3	0.0464	45.45	19.98	65.43	114.26	-48.83	peak
4	0.0669	40.23	19.69	59.92	111.09	-51.17	peak
5	0.0822	39.96	19.70	59.66	109.30	-49.64	peak
6	0.1281	72.08	19.63	91.71	105.45	-13.74	peak



Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**coplanar**
EUT:	**15W Wireless charger Stand**	**Temperature:**	**24.3°C**
M/N.:	**F1**	**Humidity:**	**53.2%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Vier**	**Test Time:**	**2023/12/6**

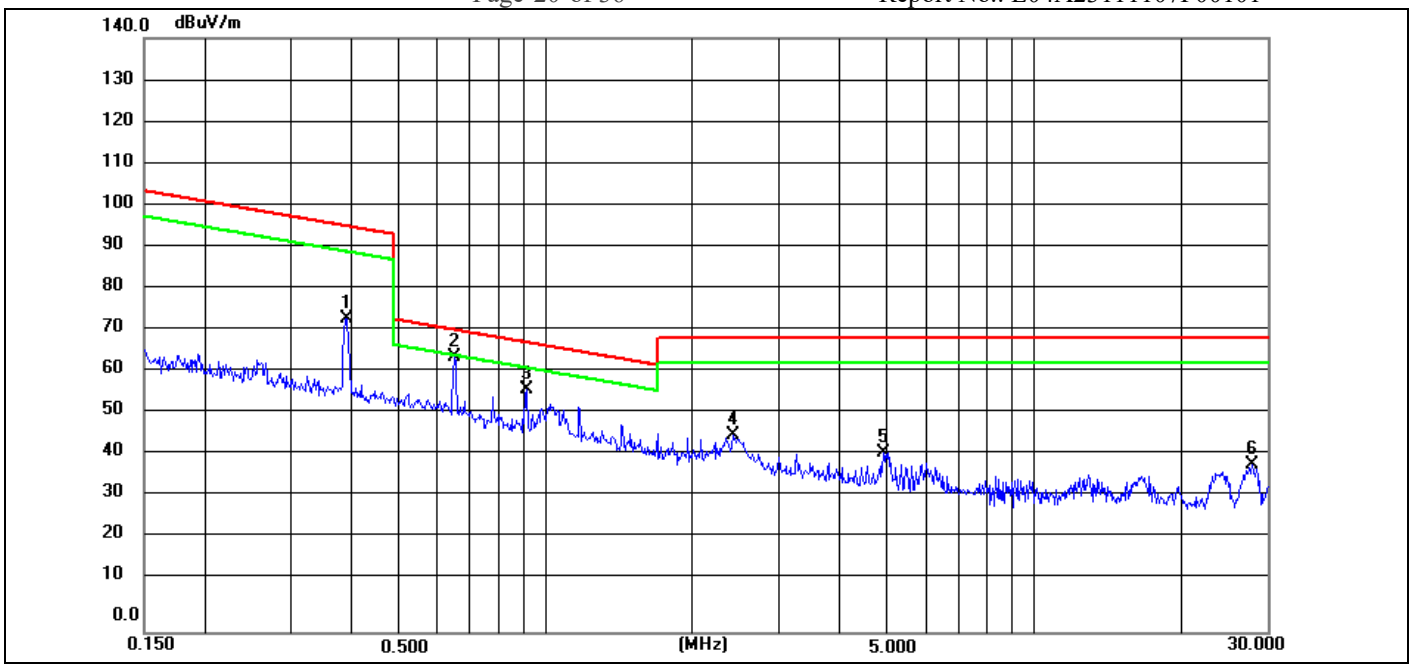
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0117	42.26	20.41	62.67	126.22	-63.55	peak
2	0.0261	42.18	20.20	62.38	119.26	-56.88	peak
3	0.0435	41.51	20.00	61.51	114.82	-53.31	peak
4	0.0831	35.49	19.71	55.20	109.20	-54.00	peak
5	0.1181	31.58	19.58	51.16	106.15	-54.99	peak
6	0.1303	67.41	19.64	87.05	105.30	-18.25	peak

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.



Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**coaxial**
EUT:	**15W Wireless charger Stand**	**Temperature:**	**24.3°C**
M/N.:	**F1**	**Humidity:**	**53.2%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Vier**	**Test Time:**	**2023/12/6**

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.2603	49.37	19.63	69.00	99.29	-30.29	peak
2	0.3893	58.69	19.61	78.30	95.80	-17.50	peak
3	0.6474	48.92	19.54	68.46	71.39	-2.93	peak
4	0.9087	41.55	19.47	61.02	68.45	-7.43	peak
5	4.9782	21.69	19.82	41.51	69.50	-27.99	peak
6	22.5353	14.83	21.16	35.99	69.50	-33.51	peak

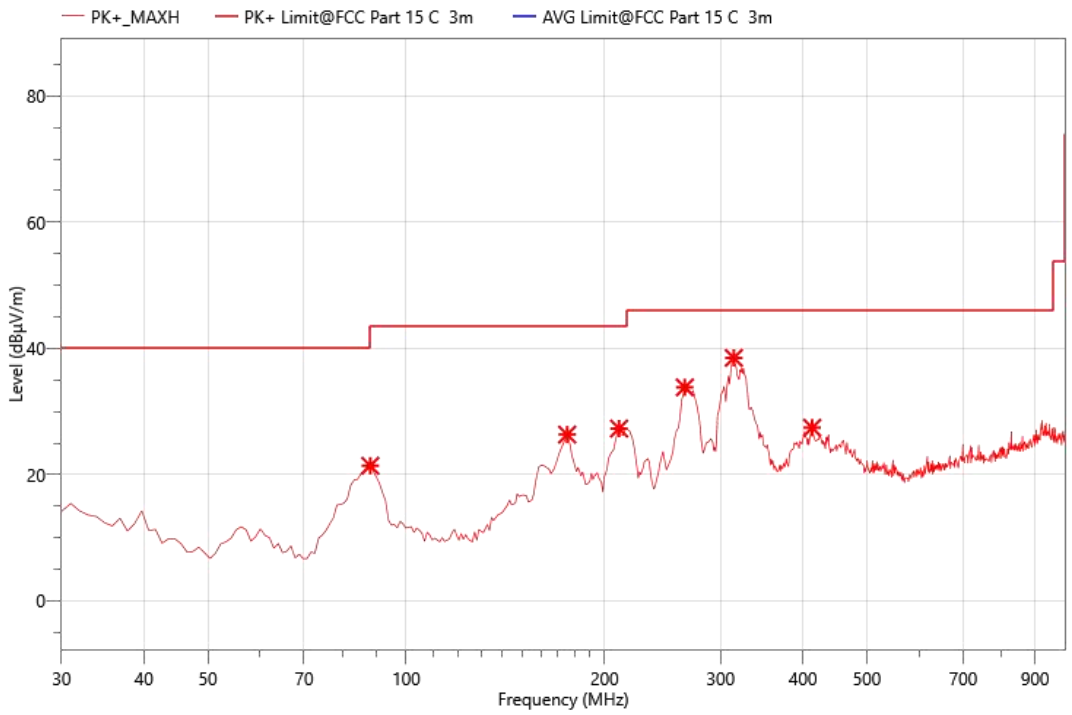


Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**coplanar**
EUT:	**15W Wireless charger Stand**	**Temperature:**	**24.3°C**
M/N.:	**F1**	**Humidity:**	**53.2%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Vier**	**Test Time:**	**2023/12/6**

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.3893	54.45	19.61	74.06	95.80	-21.74	peak
2	0.6474	45.30	19.54	64.84	71.39	-6.55	peak
3	0.9087	37.80	19.47	57.27	68.45	-11.18	peak
4	2.4090	27.15	19.57	46.72	69.50	-22.78	peak
5	4.8997	22.68	19.81	42.49	69.50	-27.01	peak
6	27.8552	19.23	20.40	39.63	69.50	-29.87	peak

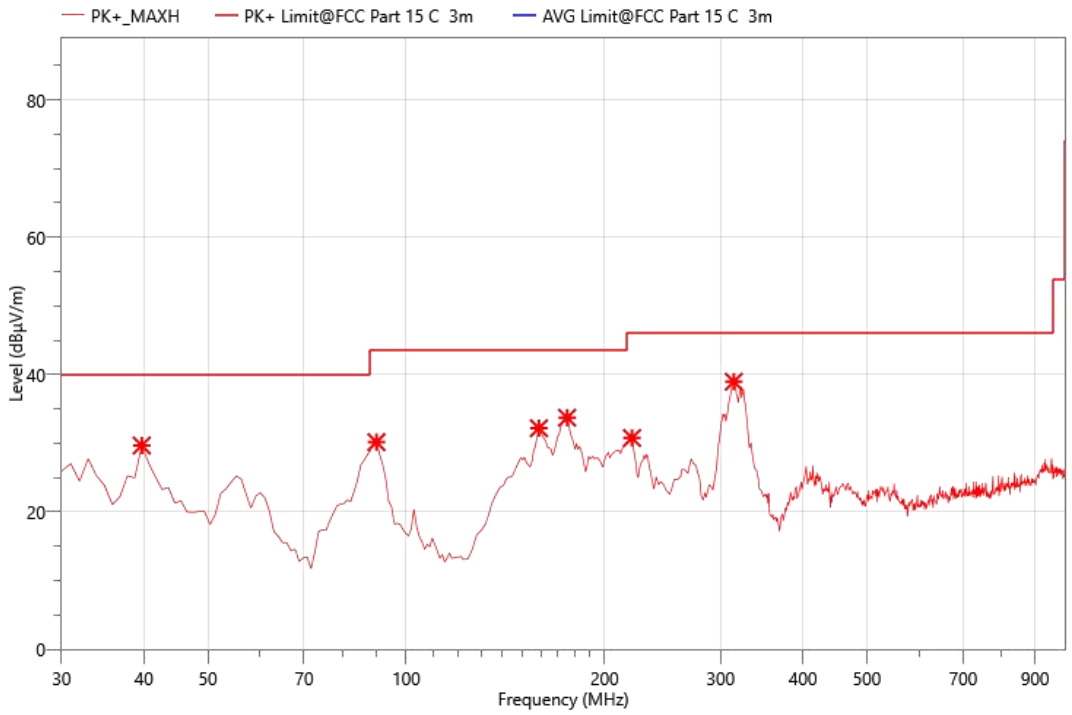
Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

We pretested modes (Wireless Charging(15W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst test data (Wireless Charging(15W)) see follow the table.



Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**Horizontal**
EUT:	**15W Wireless charger Stand**	**Temperature:**	**24.1℃**
M/N.:	**F1**	**Humidity:**	**53%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Big**	**Test Time:**	**2023/12/5**

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	88.200	46.85	-25.42	21.43	43.50	22.07	PK+
2	175.500	48.64	-22.27	26.37	43.50	17.13	PK+
3	210.420	48.58	-21.26	27.32	43.50	16.18	PK+
4	264.740	52.11	-18.26	33.85	46.00	12.15	PK+
5	314.210	56.75	-18.24	38.51	46.00	7.49	PK+
6	413.150	41.28	-13.83	27.45	46.00	18.55	PK+



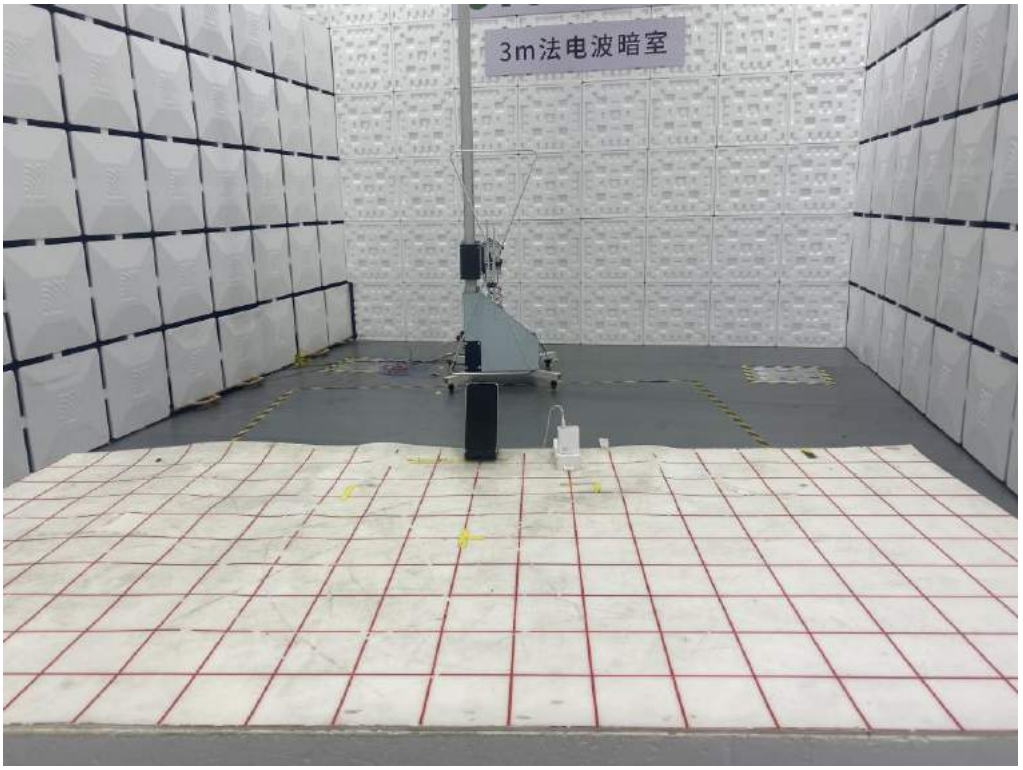
Limit:	**FCC Part 15C 3m Radiation**	**Antenna:**	**Vertical**
EUT:	**15W Wireless charger Stand**	**Temperature:**	**24.1℃**
M/N.:	**F1**	**Humidity:**	**53%RH**
Mode:	**Wireless Charging 15W**	**Power Rating:**	**AC 120V/60Hz**
Test Engineer:	**Big**	**Test Time:**	**2023/12/5**

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	39.700	49.52	-19.86	29.66	40.00	10.34	PK+
2	90.140	55.43	-25.28	30.15	43.50	13.35	PK+
3	159.010	53.82	-21.64	32.18	43.50	11.32	PK+
4	175.500	55.98	-22.27	33.71	43.50	9.79	PK+
5	220.120	51.54	-20.79	30.75	46.00	15.25	PK+
6	314.210	57.20	-18.24	38.96	46.00	7.04	PK+

6.6 Radiated Measurement Photos

9kHz-30MHz

30MHz-1GHz



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

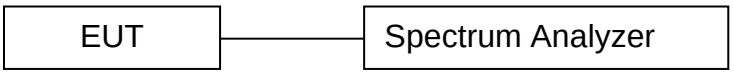
7.2 Test Instruments

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.

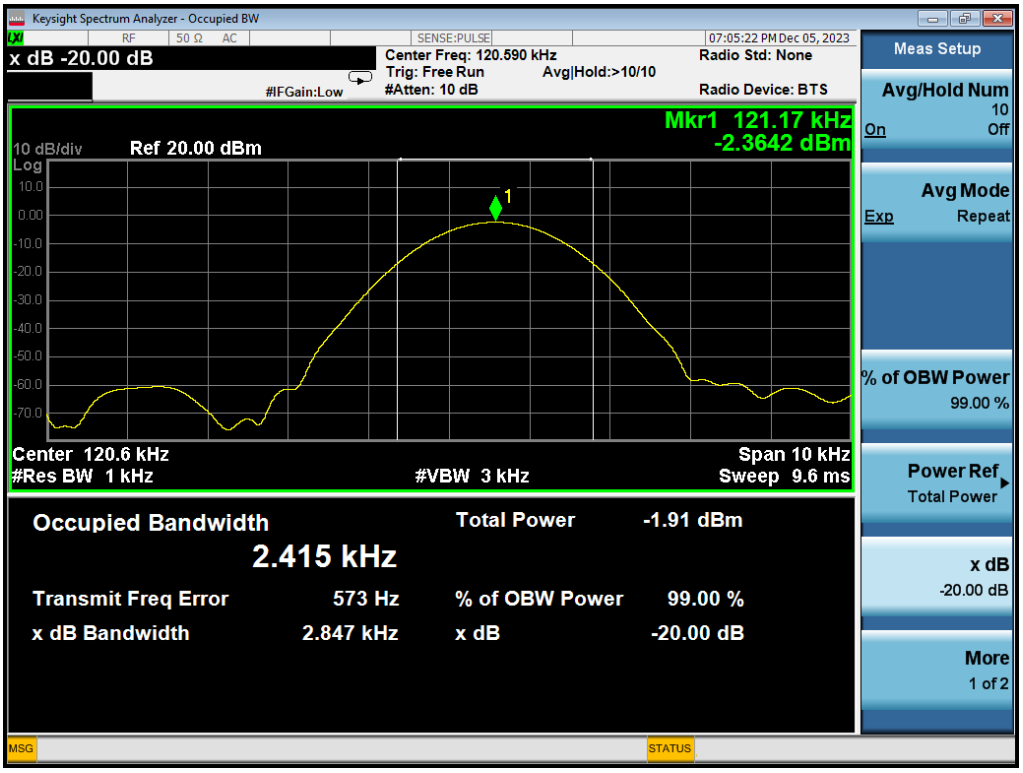
7.4 Test Setup



7.5 Test Result

Frequency (KHz)	20dB Bandwidth (KHz)	Results
120.6	2.847	PASS

20 dB Bandwidth Test plot



8 Antenna Application

8.1 Antenna requirement

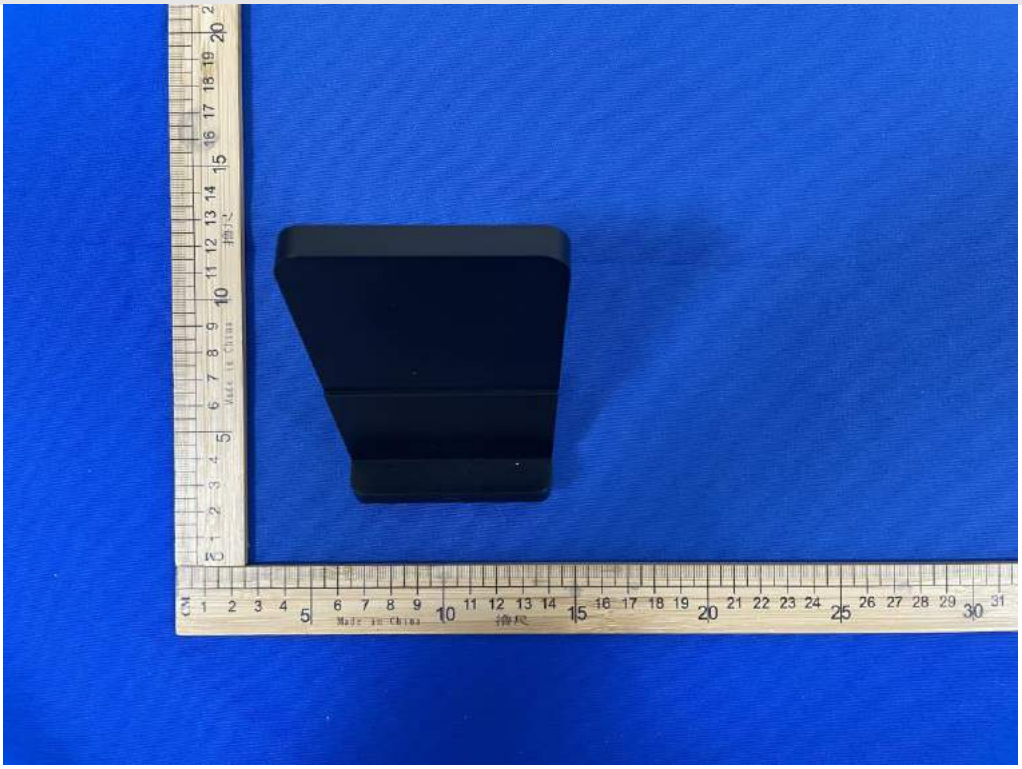
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 Result

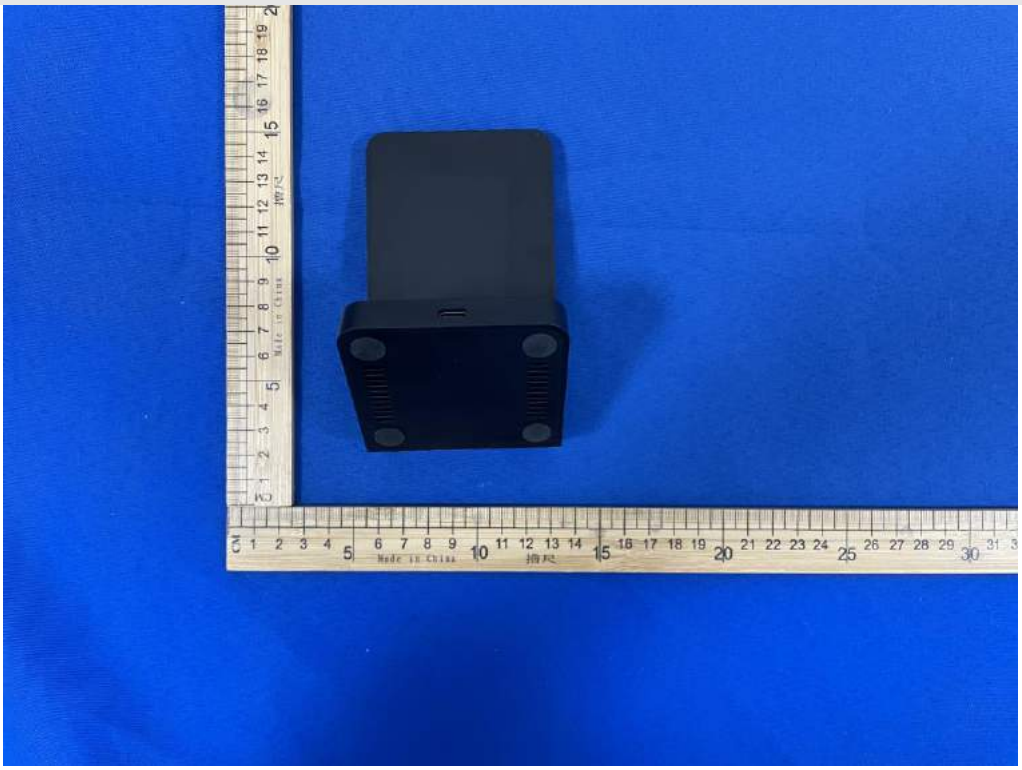
The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

APPENDIX
(Photos of EUT)

External-1

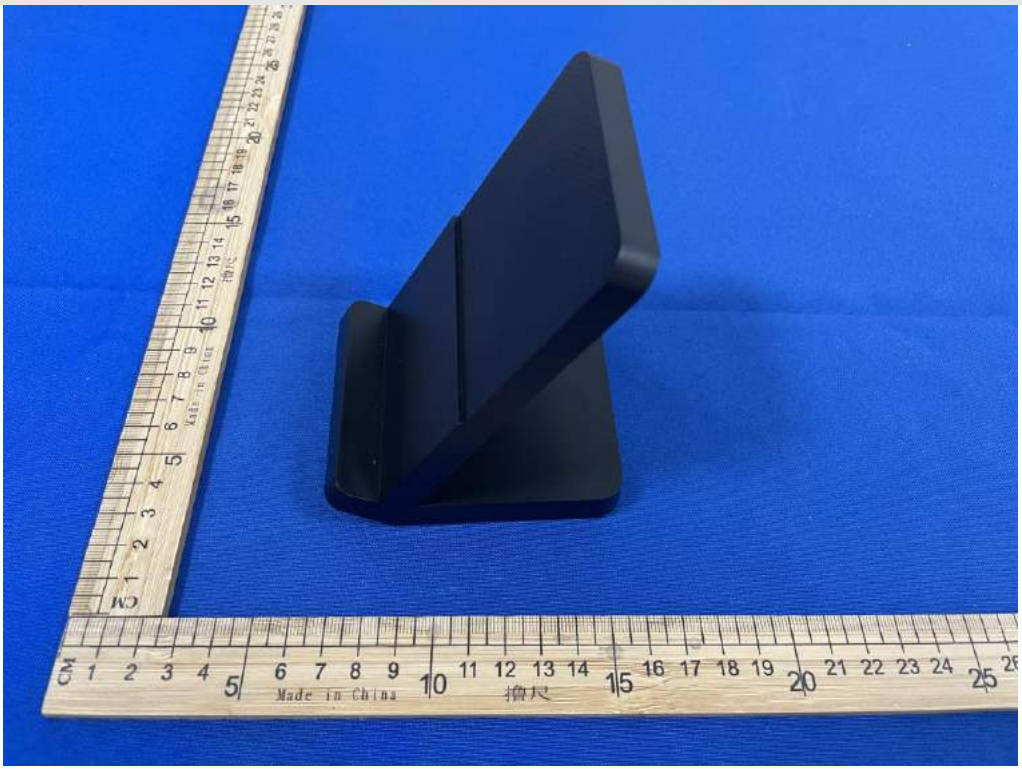


External-2

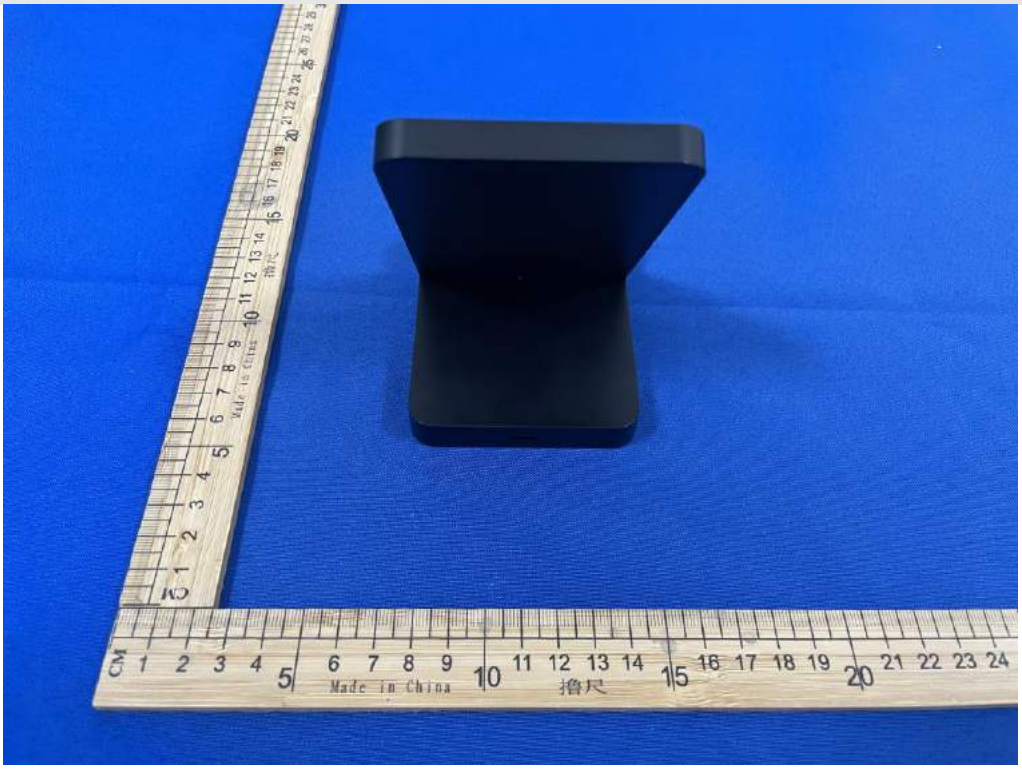


External-3

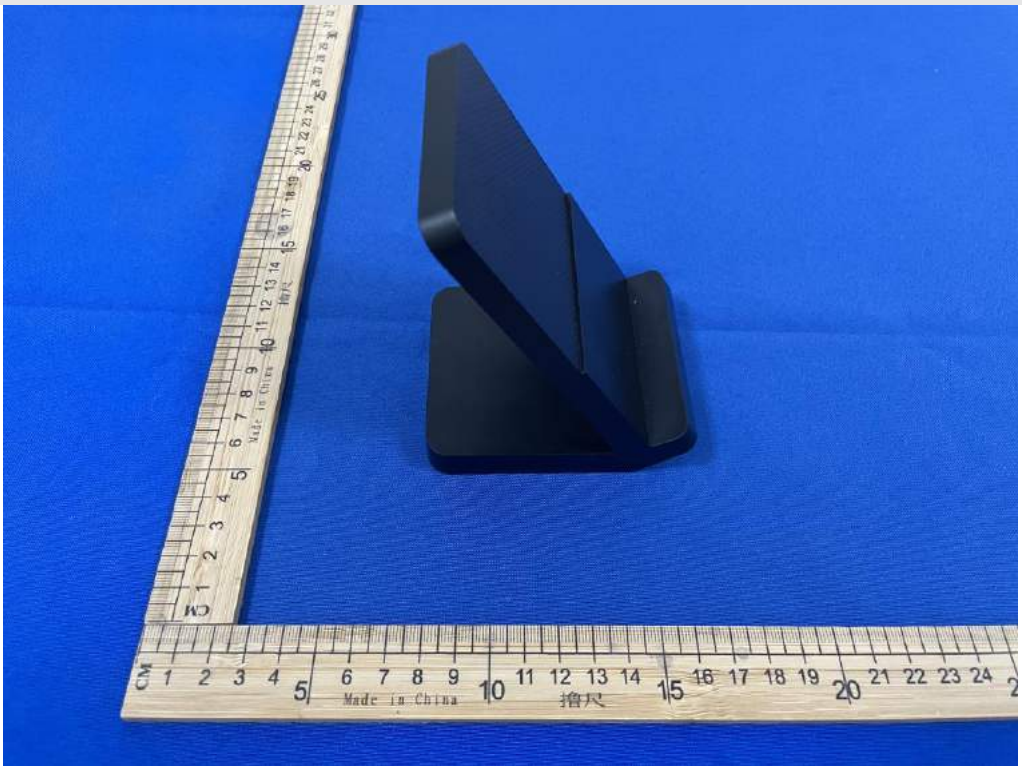
External-4



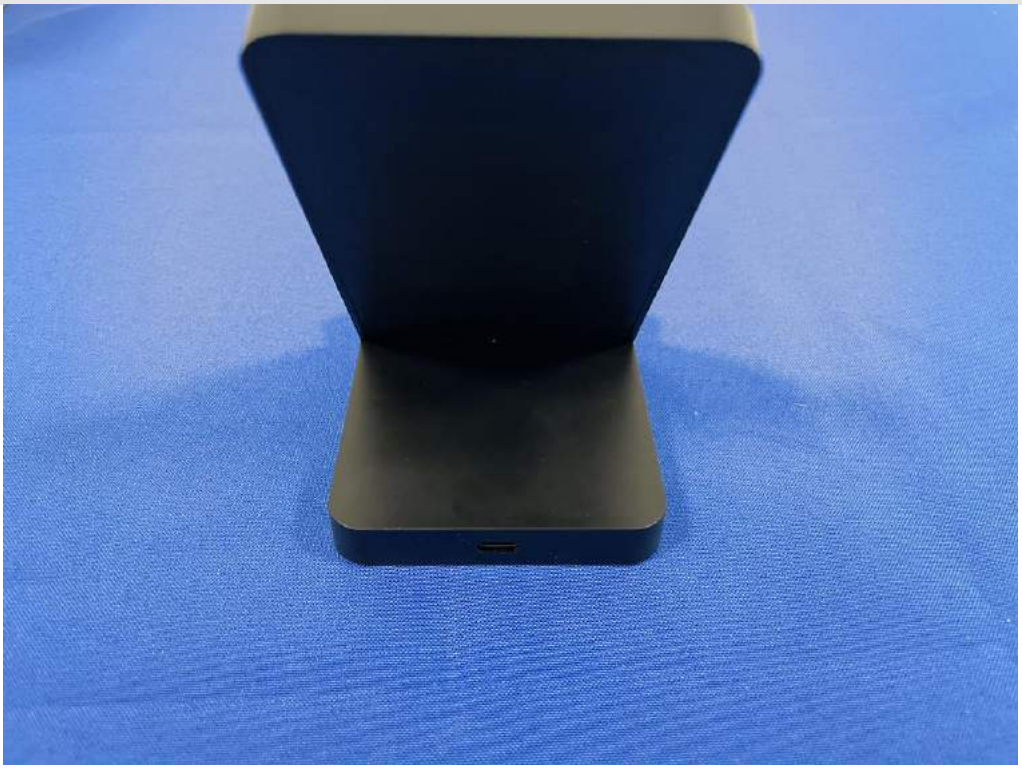
External-5



External-6



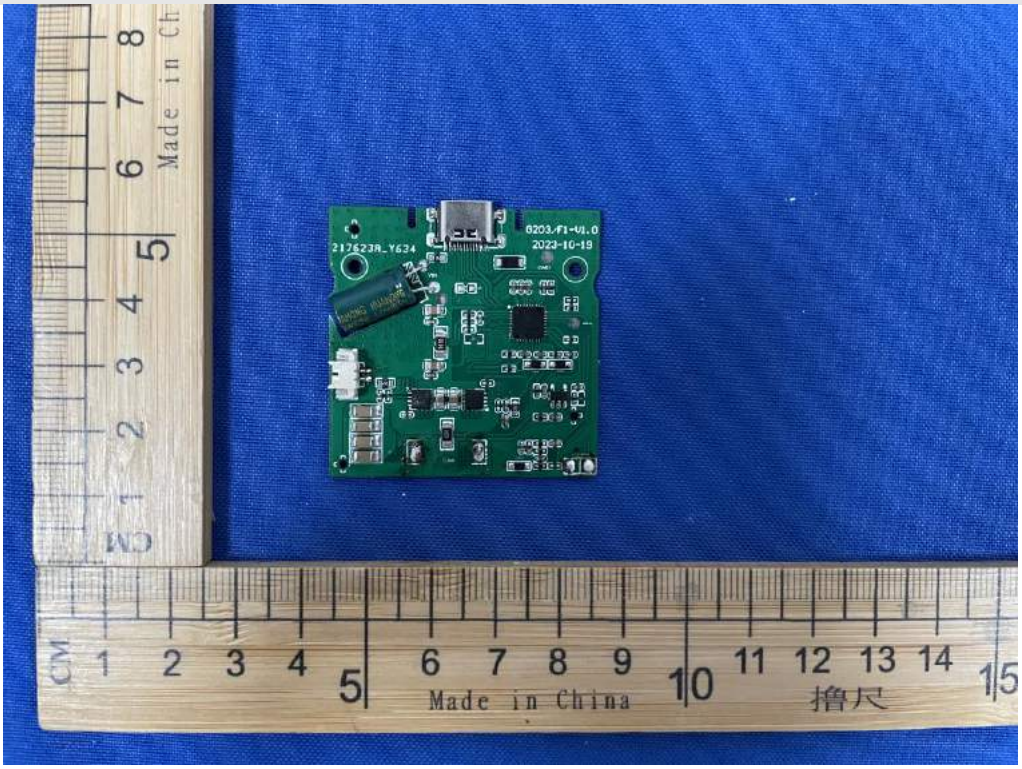
External-7



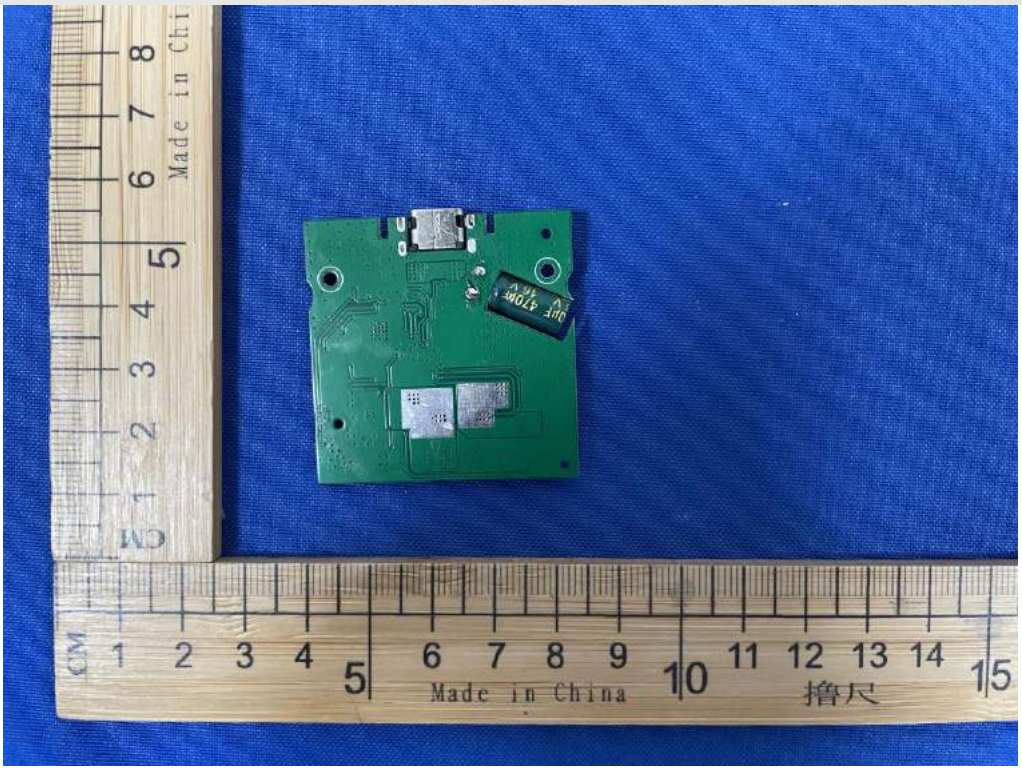
Internal-1

Internal-2

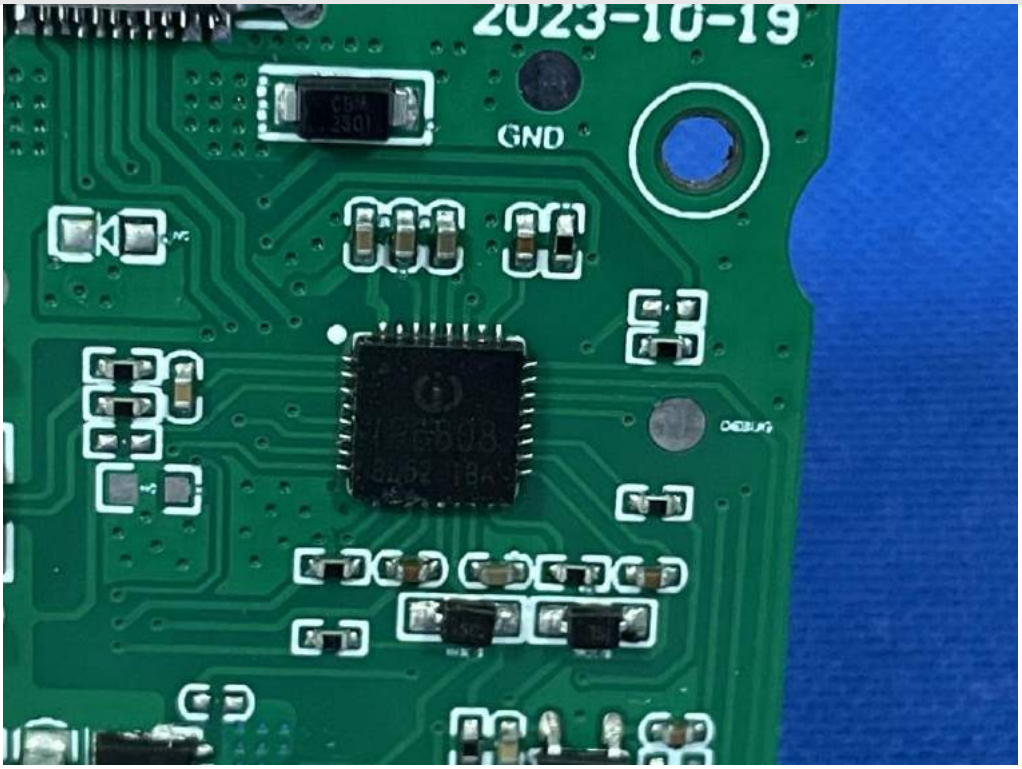
Internal-3



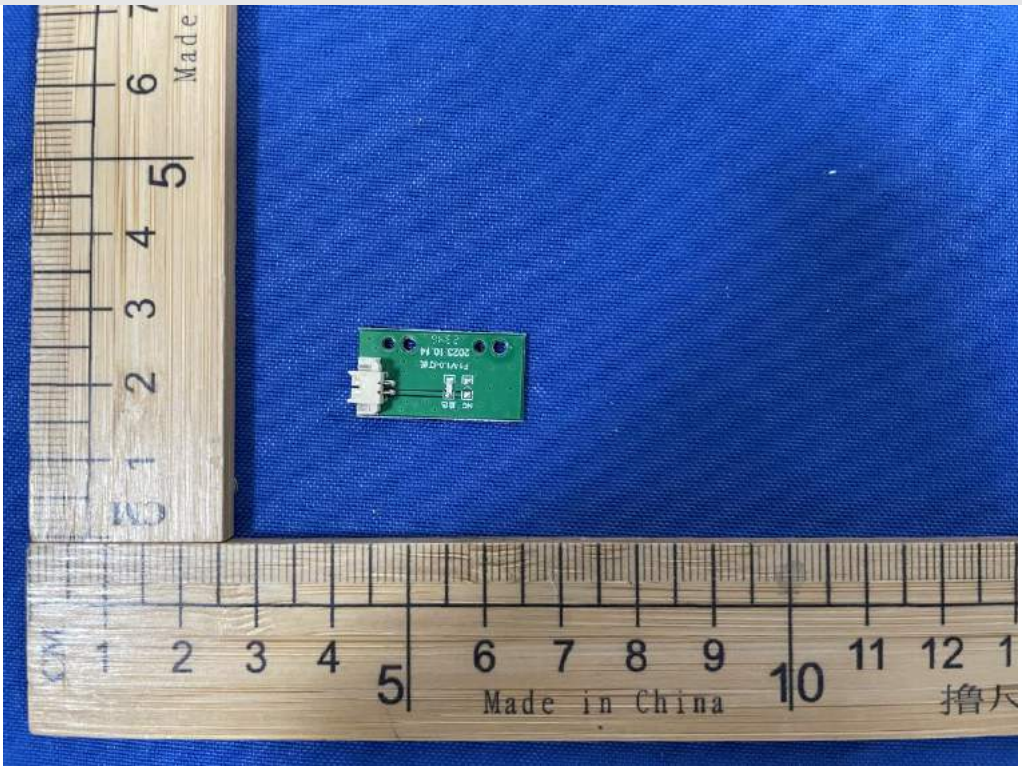
Internal-4



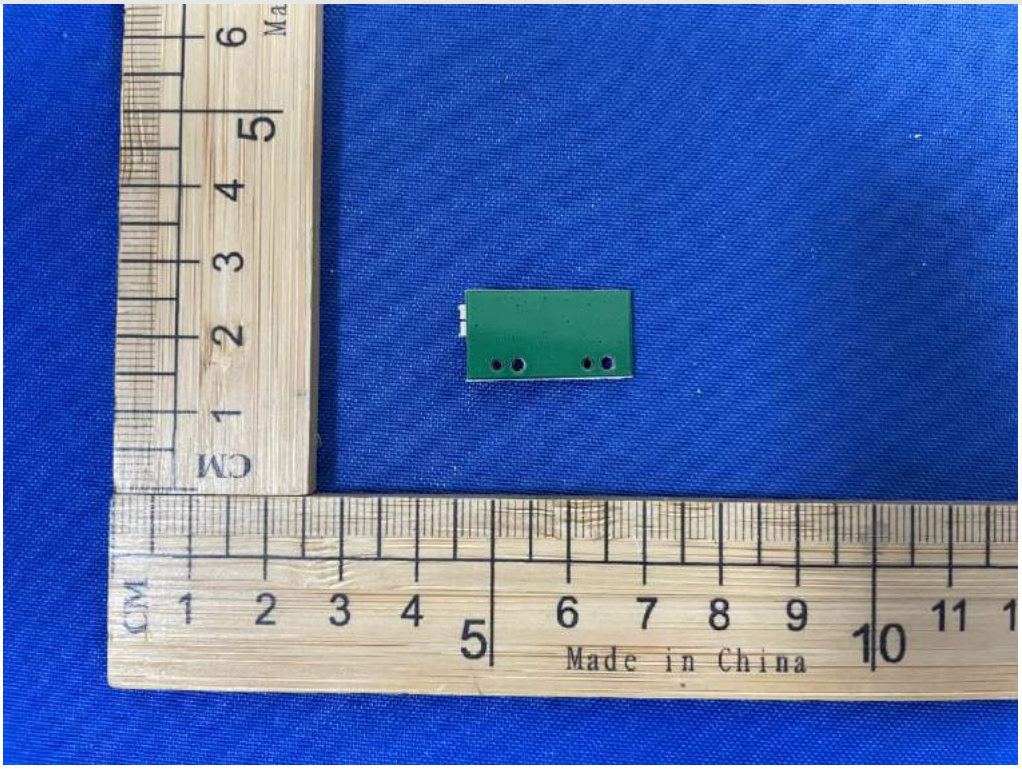
Internal-5



Internal-6



Internal-7



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