



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

OF

Wireless watch charge

Model No.: WP1

FCC ID: 2BCJZ-WP1

Report No.: E04A23080385F00401

Issue Date: September 4, 2023

Prepared for

Shenzhen MOPO Electronic Technology Co., Ltd

**Room 212, Longhai Business Center, Longfeng 1 Road, Longhua Street,
Longhua District, Shenzhen, China**

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake
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523808**

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Guangdong Global Testing Technology Co., Ltd.**

VERIFICATION OF COMPLIANCE

Applicant:	Shenzhen MOPO Electronic Technology Co., Ltd Room 212, Longhai Business Center, Longfeng 1 Road, Longhua Street, Longhua District, Shenzhen, China
Manufacturer:	DONGGUAN MOPO NEW ENERGY TECH. CO., LTD. Room 701, Floor 7, Building L, Fengzhimei Industrial Zone, golden phoenix Avenue, Fenggang Town, Dongguan City
Factory:	DONGGUAN MOPO NEW ENERGY TECH. CO., LTD. Room 701, Floor 7, Building L, Fengzhimei Industrial Zone, golden phoenix Avenue, Fenggang Town, Dongguan City
Product Description:	Wireless watch charge
Model Number:	WP1
Serial Model:	WP2, WP3, WP4, WP5, P1, P2, P3, P4, P5, P6, W1, W2, W3, W5, W6, WP1200, i1200, iW1200, PB1200

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 : August 17, 2023 to August 31, 2023

Prepared by : _____



Reviewer &
Authorized Signer : _____

Shawn Wen/ General Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E04A23080385F00401

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Wireless watch charge
Model number	WP1
Serial Model	WP2, WP3, WP4, WP5, P1, P2, P3, P4, P5, P6, W1, W2, W3, W5, W6, WP1200, i1200, iW1200, PB1200
Operation Mode	Wireless Charging
Input Rating	USB-C:5V==1A
Battery Rating	Model:103040 3.7V,1200mAh,4.44Wh
Power Supply	DC 5V/ DC 3.7V
Operating Frequency	200-350KHz
Wireless Charging Power	2.5W
Modulation Technique	ASK
Antenna Type	Coil Antenna
Sample receipt date	August 16, 2023

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2BCJZ-WP1 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 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 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

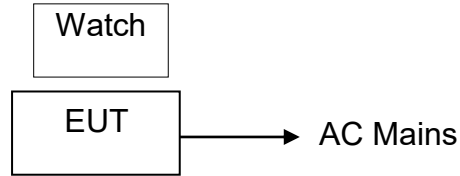


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Wireless watch charge	/	WP1	2BCJZ-WP1	<i>EUT</i>
2.	Watch	Apple	A1859	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	$\pm 3\%$

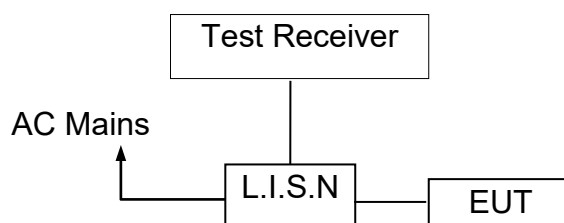
Remark: The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%

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	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	2022/10/08	2023/10/07
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

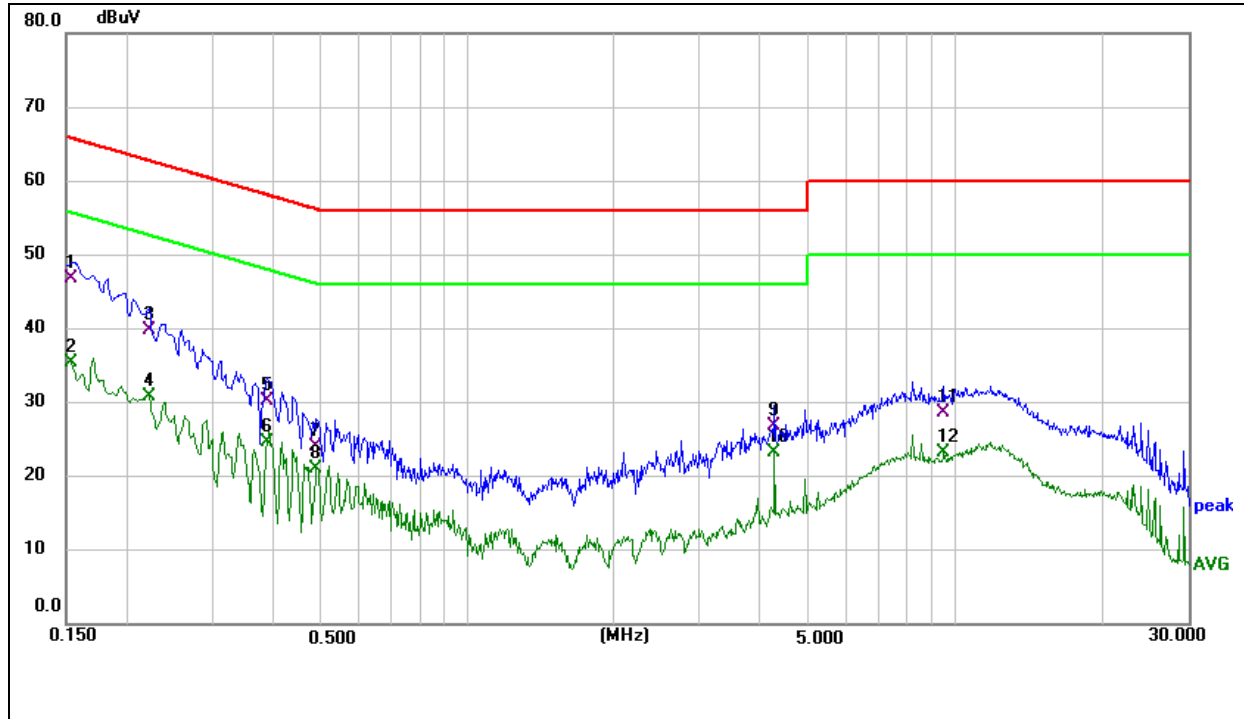
Note: 1. The lower limit shall apply at the transition frequencies

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

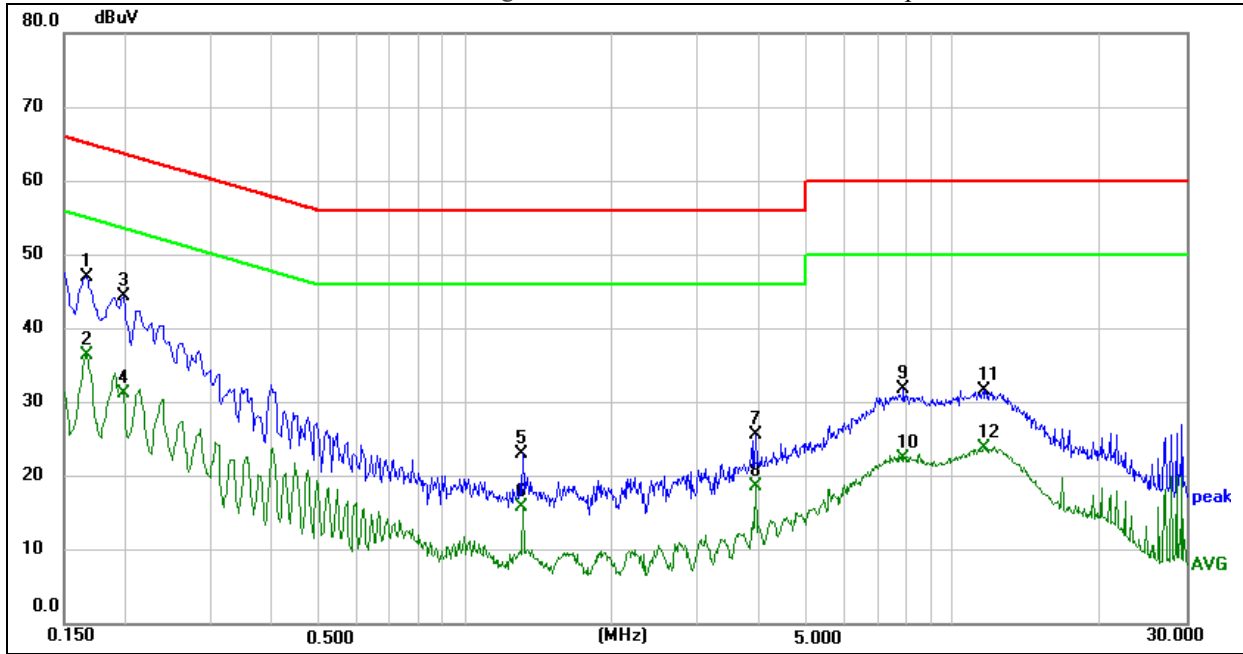
Operation Mode:	TX	Test Date :	2023/08/25
Frequency Range:	0.15MHz~30MHz	Temperature :	26°C
Test Result:	PASS	Humidity :	54.3 %RH
Test By:	Eli		

Test mode: Wireless Charging 10W



Limit:	FCC Part 15 C Conduction(QP)	Phase:	L1
EUT:	Wireless watch charge	Test Time:	2023/08/25
M/N.:	WP1	Power Rating:	AC120V/60Hz
Mode:	Wireless Charging 2.5W	Test Engineer:	Eli

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1 *	0.1539	36.13	10.67	46.80	65.79	-18.99	QP	
2	0.1539	24.69	10.67	35.36	55.79	-20.43	AVG	
3	0.2220	28.97	10.83	39.80	62.74	-22.94	QP	
4	0.2220	20.08	10.83	30.91	52.74	-21.83	AVG	
5	0.3860	19.01	11.19	30.20	58.15	-27.95	QP	
6	0.3860	13.44	11.19	24.63	48.15	-23.52	AVG	
7	0.4900	12.72	11.38	24.10	56.17	-32.07	QP	
8	0.4900	9.62	11.38	21.00	46.17	-25.17	AVG	
9	4.2540	16.33	10.47	26.80	56.00	-29.20	QP	
10	4.2540	12.84	10.47	23.31	46.00	-22.69	AVG	
11	9.4860	18.01	10.69	28.70	60.00	-31.30	QP	
12	9.4860	12.56	10.69	23.25	50.00	-26.75	AVG	



Limit:	FCC Part 15 C Conduction(QP)	Phase:	L1
EUT:	Wireless watch charge	Test Time:	2023/08/25
M/N.:	WP1	Power Rating:	AC120V/60Hz
Mode:	Wireless Charging 2.5W	Test Engineer:	Eli

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1 *	0.1660	36.38	10.66	47.04	65.16	-18.12	QP	
2	0.1660	25.79	10.66	36.45	55.16	-18.71	AVG	
3	0.1980	33.62	10.73	44.35	63.69	-19.34	QP	
4	0.1980	20.40	10.73	31.13	53.69	-22.56	AVG	
5	1.3099	12.70	10.35	23.05	56.00	-32.95	QP	
6	1.3099	5.45	10.35	15.80	46.00	-30.20	AVG	
7	3.9300	15.18	10.39	25.57	56.00	-30.43	QP	
8	3.9300	8.31	10.39	18.70	46.00	-27.30	AVG	
9	7.8940	21.33	10.54	31.87	60.00	-28.13	QP	
10	7.8940	12.00	10.54	22.54	50.00	-27.46	AVG	
11	11.5580	21.02	10.67	31.69	60.00	-28.31	QP	
12	11.5580	13.15	10.67	23.82	50.00	-26.18	AVG	

5.6 Conducted Measurement Photo



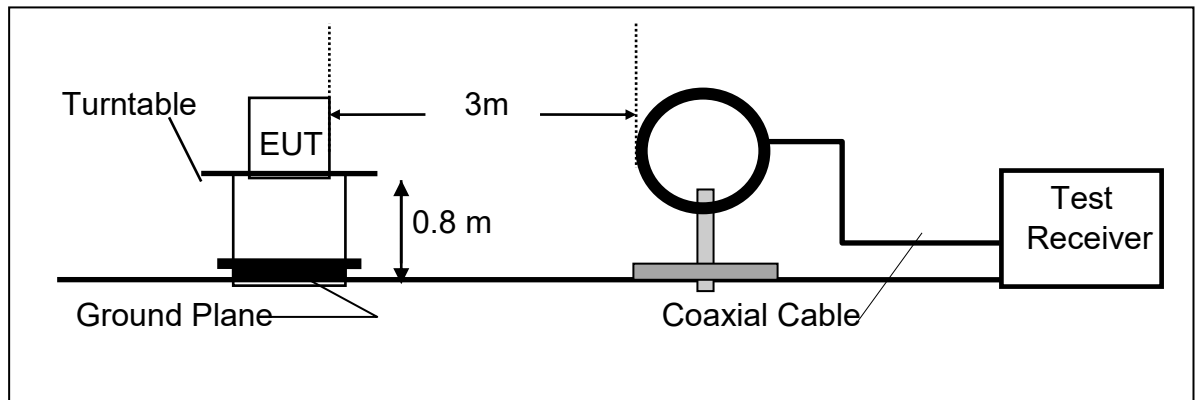
6 Radiated Emission Test

6.1 Measurement Procedure

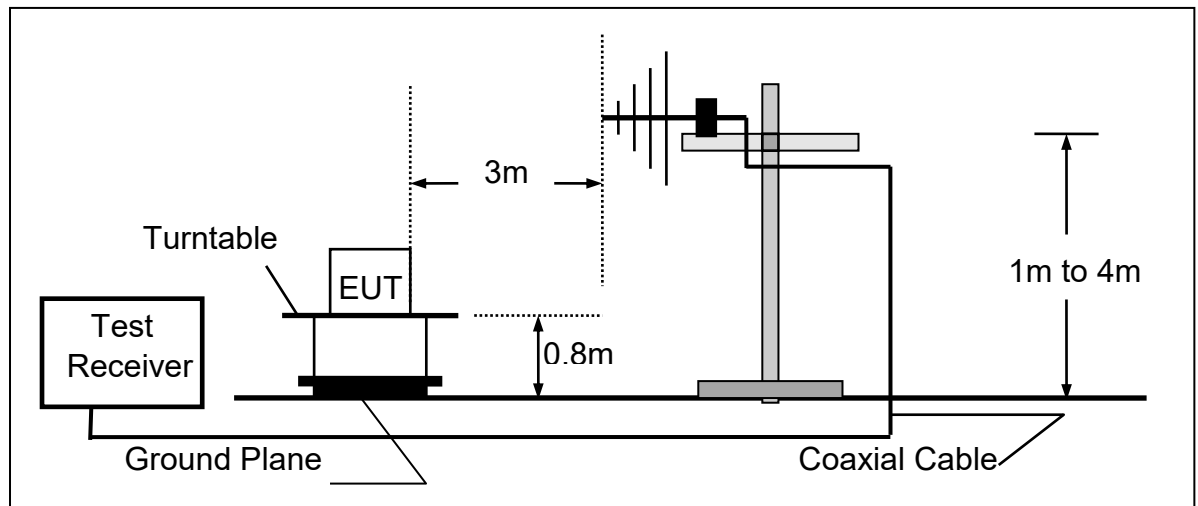
1. The EUT was placed on a turntable which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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	2022/10/08	2023/10/07
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2022/10/08	2023/10/07
Pre-Amplifier	HzEMC	HPA-9K0130	HYP21001	2022/10/29	2023/10/28
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.FA-03A2 RE)	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):

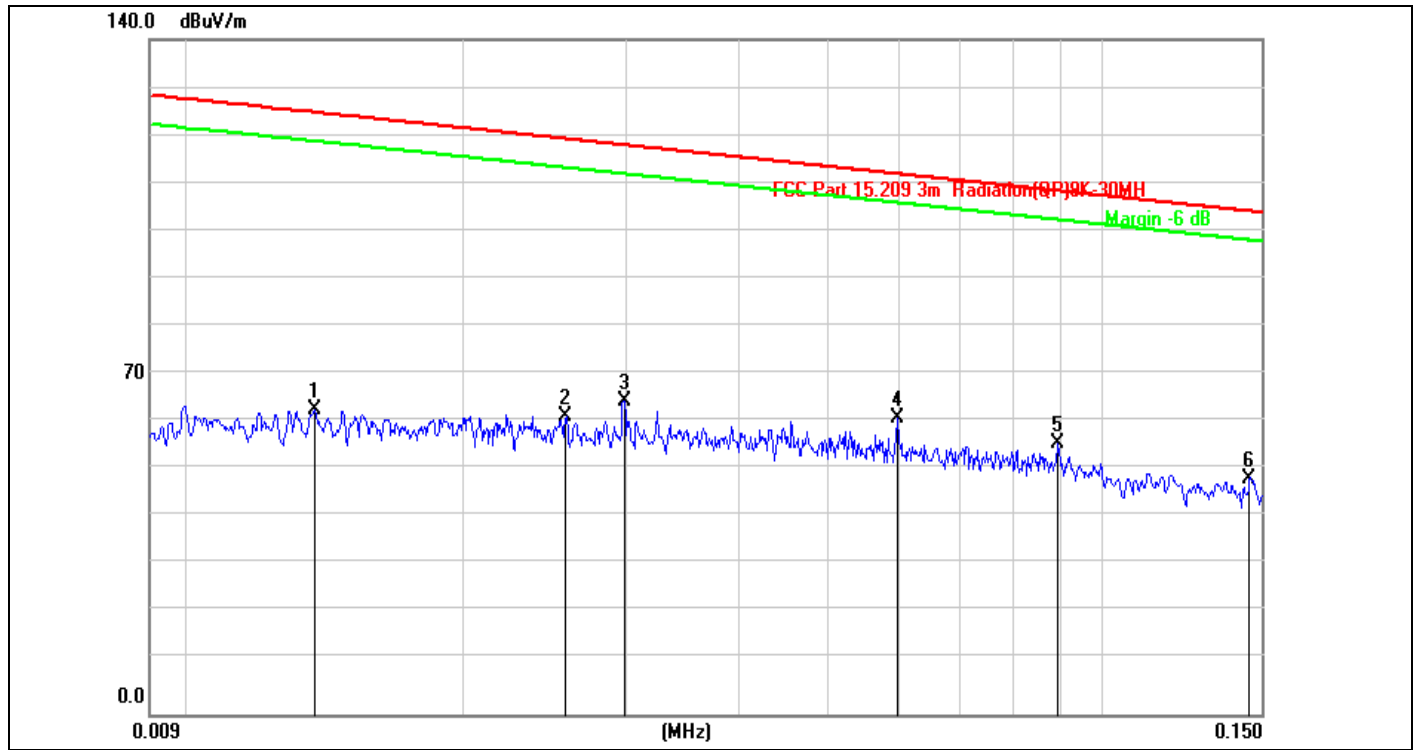
FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	$2400 / F(\text{KHz})$	300m	$10000 * 2400/F(\text{KHz})$	$20\log 2400/F(\text{KHz}) + 80$
0.490 – 1.705	$24000 / F(\text{KHz})$	30m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

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)

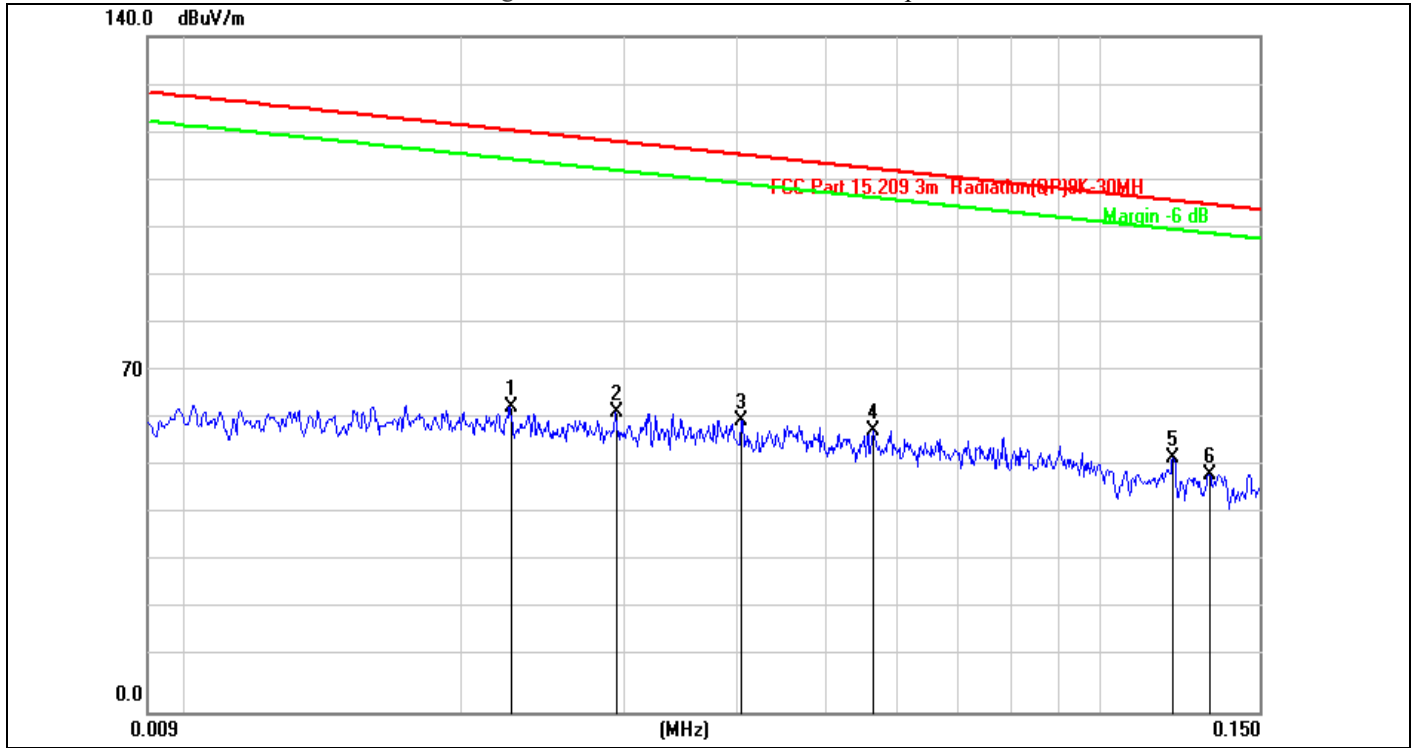
- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands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

6.5 Measurement Result



Limit:	FCC Part 15C 3m Radiation(QP)	Antenna:	Horizontal
EUT:	Wireless watch charge	Temperature:	24.3°C
M/N.:	WP1	Humidity:	53.2% RH
Mode:	Wireless Charging 2.5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Eli	Test Time:	2023/08/30

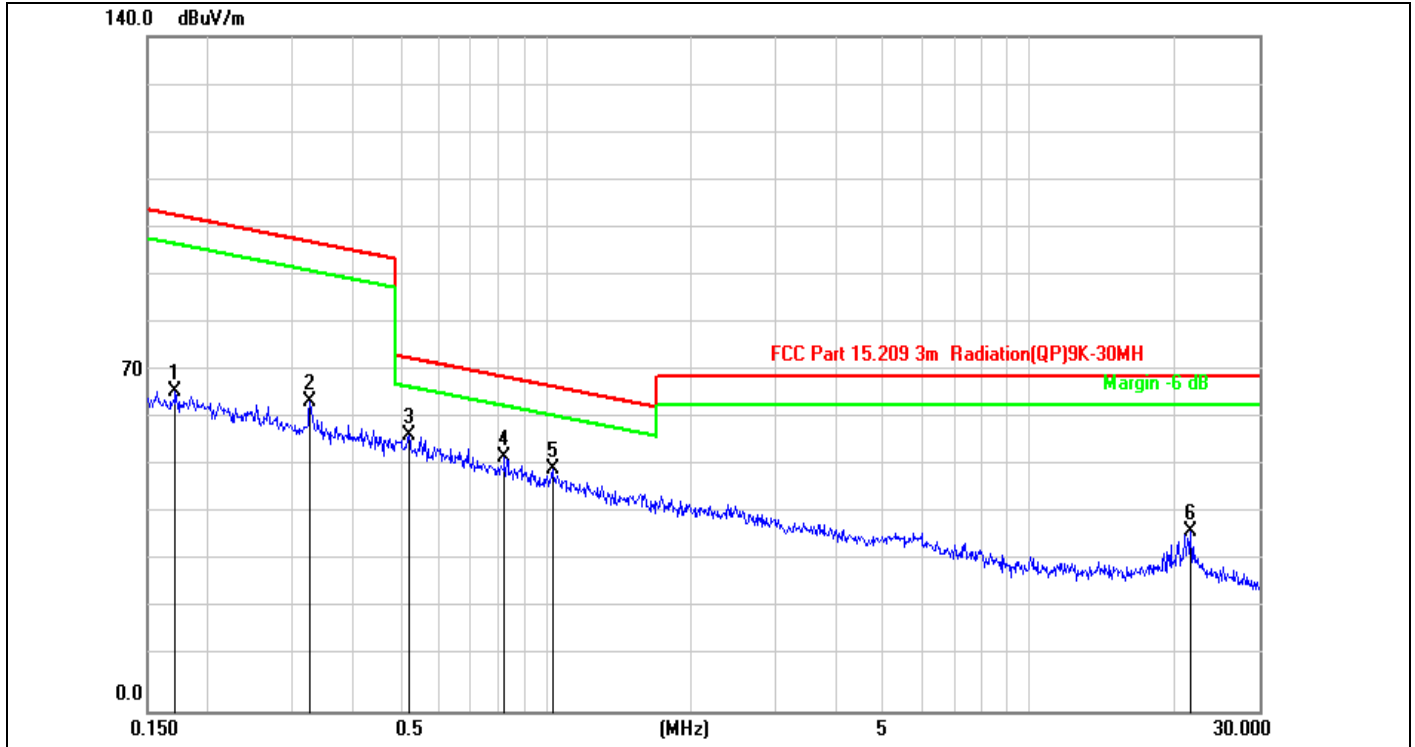
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.0136	42.97	20.38	63.35	124.92	-61.57	QP	100	236	
2	0.0258	41.67	20.21	61.88	119.36	-57.48	QP	100	254	
3	0.0299	44.75	20.15	64.90	118.08	-53.18	QP	100	120	
4 *	0.0596	41.62	19.80	61.42	112.09	-50.67	QP	100	103	
5	0.0894	36.56	19.74	56.30	108.57	-52.27	QP	100	271	
6	0.1454	29.21	19.64	48.85	104.35	-55.50	QP	100	152	



Limit:	FCC Part 15C 3m Radiation(QP)	Antenna:	Vertical
EUT:	Wireless watch charge	Temperature:	24.3°C
M/N.:	WP1	Humidity:	53.2% RH
Mode:	Wireless Charging 2.5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Eli	Test Time:	2023/08/30

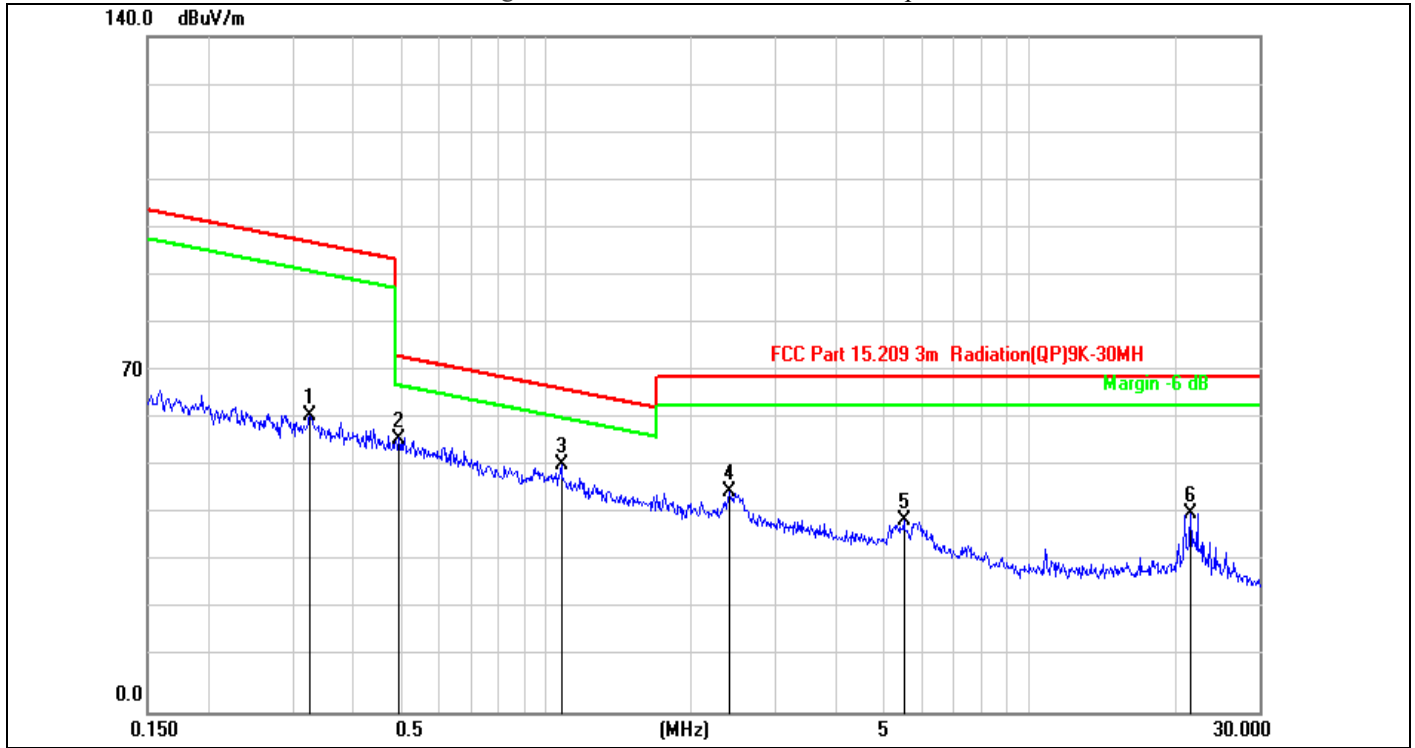
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.0225	43.00	20.26	63.26	120.55	-57.29	QP	100	236	
2	0.0294	41.90	20.16	62.06	118.22	-56.16	QP	100	254	
3	0.0404	40.41	20.04	60.45	115.46	-55.01	QP	100	120	
4	0.0563	38.43	19.85	58.28	112.58	-54.30	QP	100	103	
5 *	0.1204	32.92	19.59	52.51	105.98	-53.47	QP	100	271	
6	0.1322	29.66	19.64	49.30	105.17	-55.87	QP	100	152	

- 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(QP)	Antenna:	Horizontal
EUT:	Wireless watch charge	Temperature:	24.3°C
M/N.:	WP1	Humidity:	53.2% RH
Mode:	Wireless Charging 2.5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Eli	Test Time:	2023/08/30

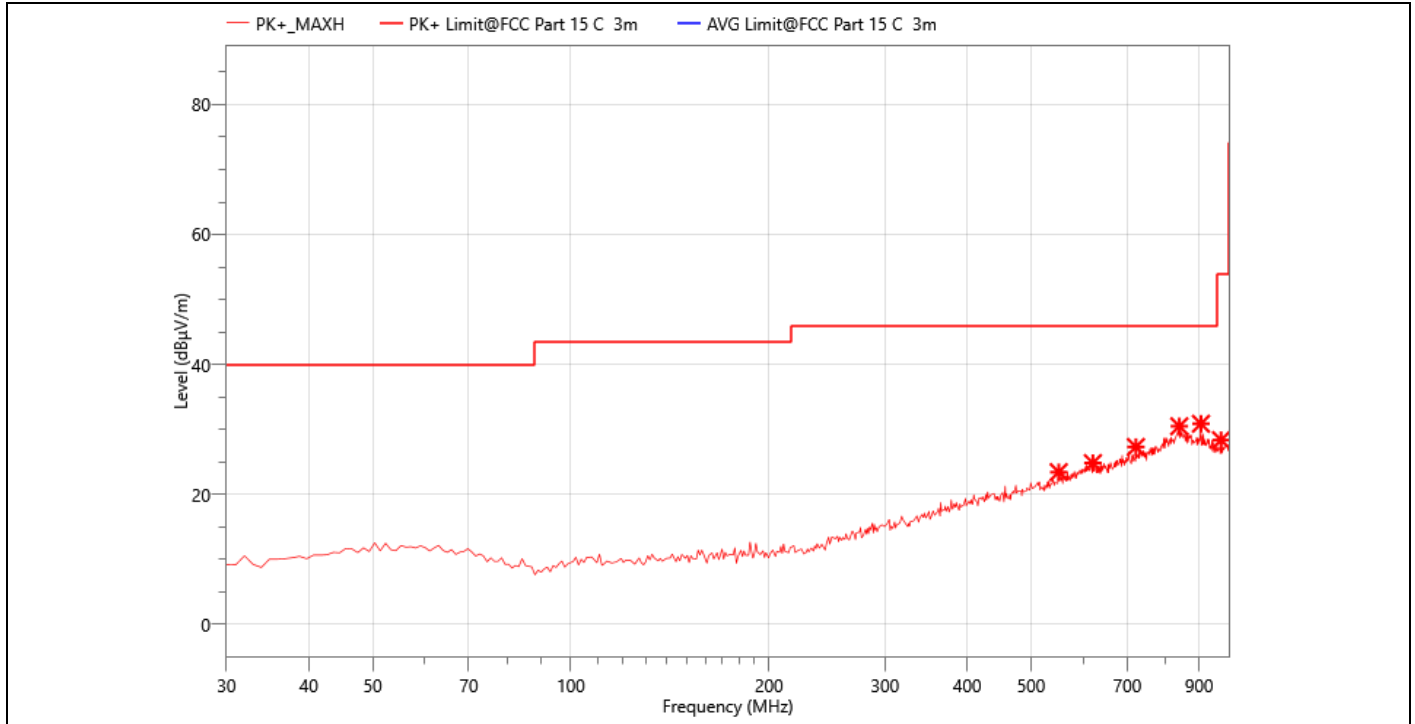
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.1712	46.81	19.64	66.45	102.93	-36.48	QP	100	236	
2	0.3251	44.70	19.62	64.32	97.36	-33.04	QP	100	254	
3 *	0.5210	37.64	19.58	57.22	73.27	-16.05	QP	100	120	
4	0.8217	33.22	19.49	52.71	69.32	-16.61	QP	100	103	
5	1.0320	30.68	19.44	50.12	67.35	-17.23	QP	100	271	
6	21.6001	15.99	21.20	37.19	69.50	-32.31	QP	100	152	



Limit:	FCC Part 15C 3m Radiation(QP)	Antenna:	Vertical
EUT:	Wireless watch charge	Temperature:	24.3°C
M/N.:	WP1	Humidity:	53.2% RH
Mode:	Wireless Charging 2.5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Eli	Test Time:	2023/08/30

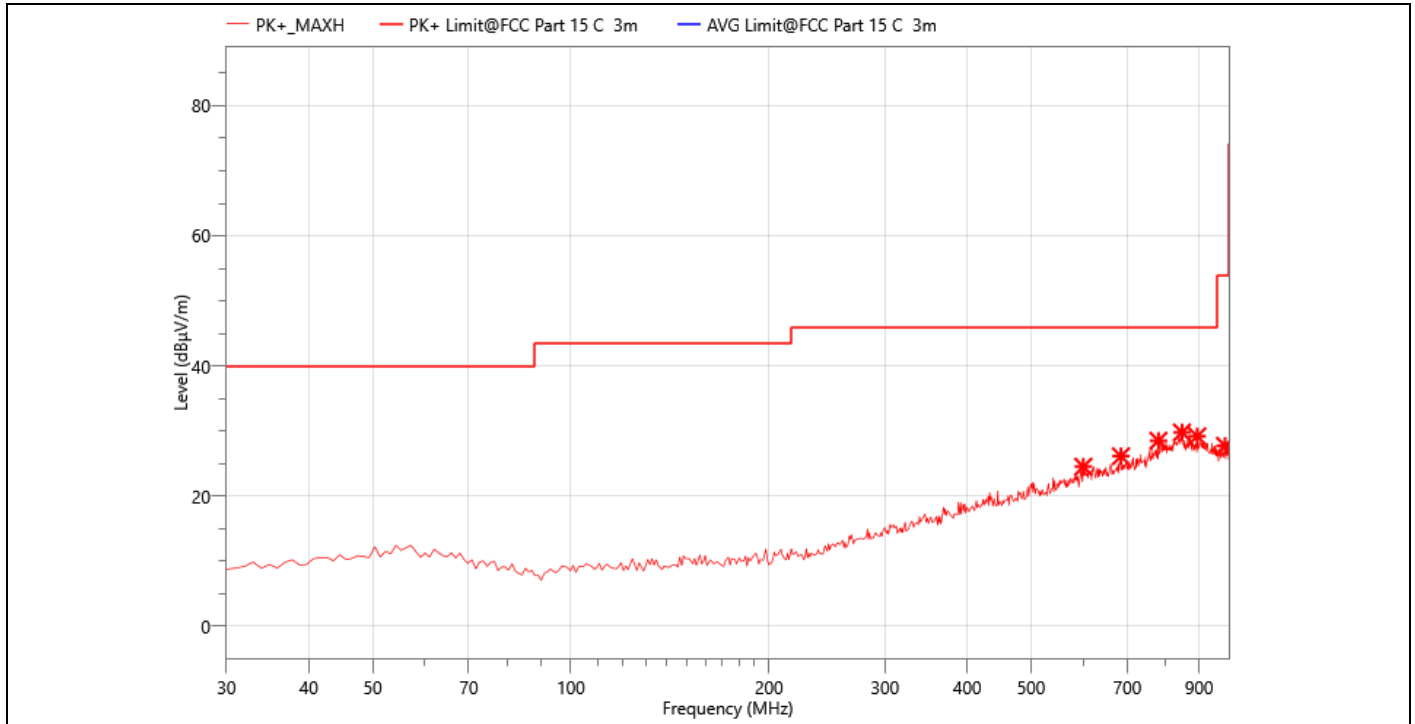
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.3251	41.67	19.62	61.29	97.36	-36.07	QP	100	236	
2	0.4967	37.11	19.59	56.70	73.68	-16.98	QP	100	254	
3 *	1.0766	31.73	19.44	51.17	66.98	-15.81	QP	100	120	
4	2.3962	26.15	19.57	45.72	69.50	-23.78	QP	100	103	
5	5.5054	19.89	19.76	39.65	69.50	-29.85	QP	100	271	
6	21.6001	20.03	21.20	41.23	69.50	-28.27	QP	100	152	

- 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:	Horizontal
EUT:	Wireless watch charge	Temperature:	24.3°C
M/N.:	WP1	Humidity:	54%RH
Mode:	Wireless Charging 2.5W	Power Rating:	DC 3.7V
Test Engineer:	Berny	Test Time:	2023/08/25

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	550.890	16.68	6.73	23.41	46.00	22.59	PK+	100	45	
2	620.730	16.39	8.42	24.81	46.00	21.19	PK+	100	45	
3	721.610	16.84	10.44	27.28	46.00	18.72	PK+	100	27	
4	839.950	16.58	13.9	30.48	46.00	15.52	PK+	100	27	
5	905.910	18.23	12.63	30.86	46.00	15.14	PK+	100	96	
6 *	971.870	17.22	11.12	28.34	53.90	25.56	PK+	100	96	



Limit:	FCC Part 15C 3m Radiation	Antenna:	Vertical
EUT:	Wireless watch charge	Temperature:	24.3°C
M/N.:	WPI	Humidity:	54%RH
Mode:	Wireless Charging 2.5W	Power Rating:	DC 3.7V
Test Engineer:	Berny	Test Time:	2023/08/25

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	600.360	16.30	8.2	24.50	46.00	21.50	PK+	100	45	
2	684.750	16.45	9.66	26.11	46.00	19.89	PK+	100	45	
3	780.780	16.67	11.82	28.49	46.00	17.51	PK+	100	27	
4	847.710	15.79	13.98	29.77	46.00	16.23	PK+	100	27	
5	894.270	16.48	12.7	29.18	46.00	16.82	PK+	100	96	
6 *	985.450	16.20	11.52	27.72	53.90	26.18	PK+	100	96	

6.6 Radiated Measurement Photos

9kHz-30MHz



30MHz-1GHz



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

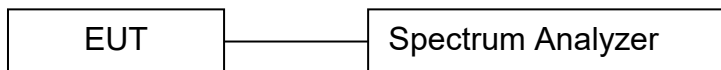
7.2 Test Instruments

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

7.3 Test Procedure

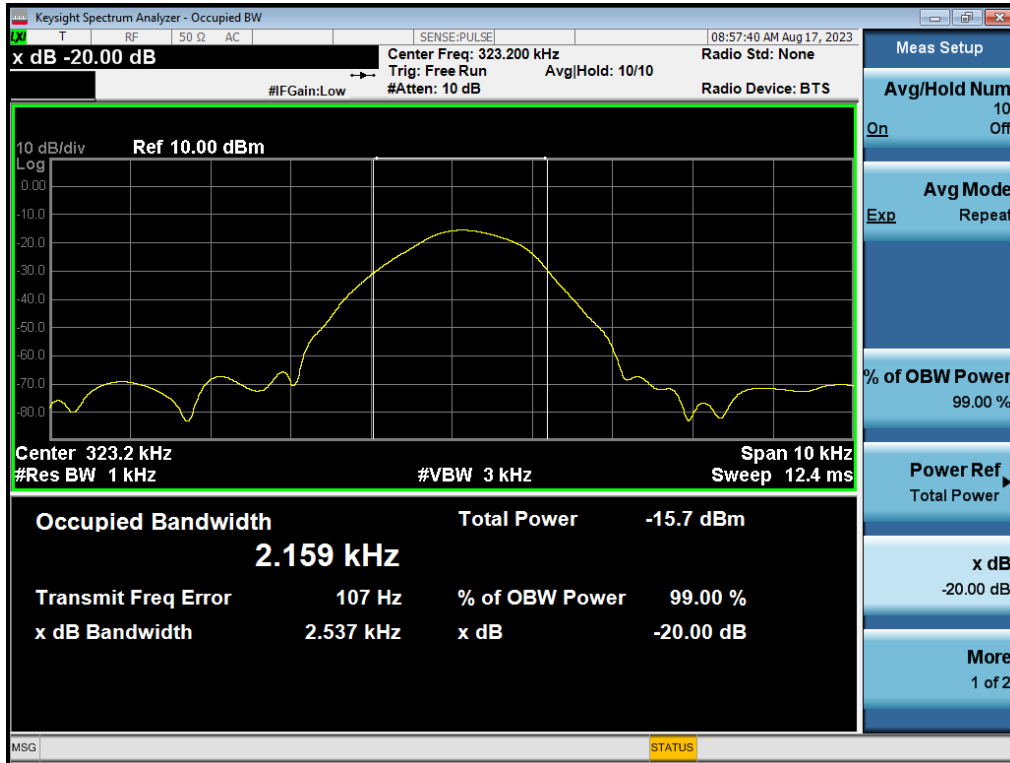
The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1KHz RBW and 3KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

7.4 Test Setup



7.5 Test Result

Frequency (KHz)	20dB Bandwidth (KHz)	Results
323.2	2.537	PASS



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



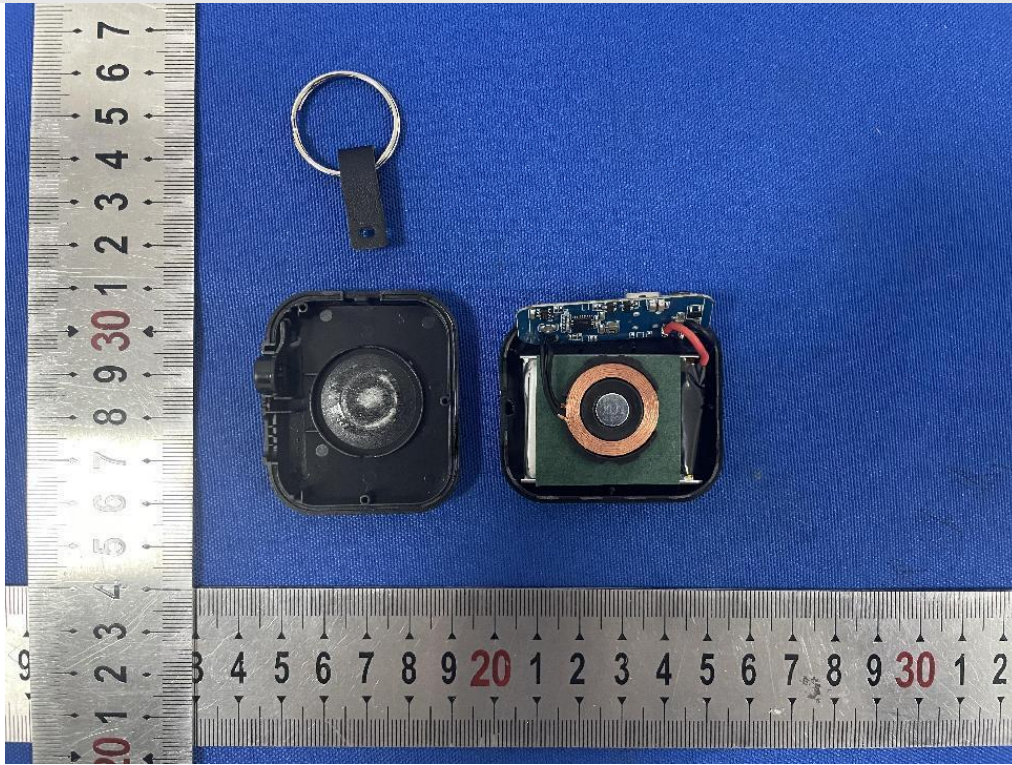
External-5



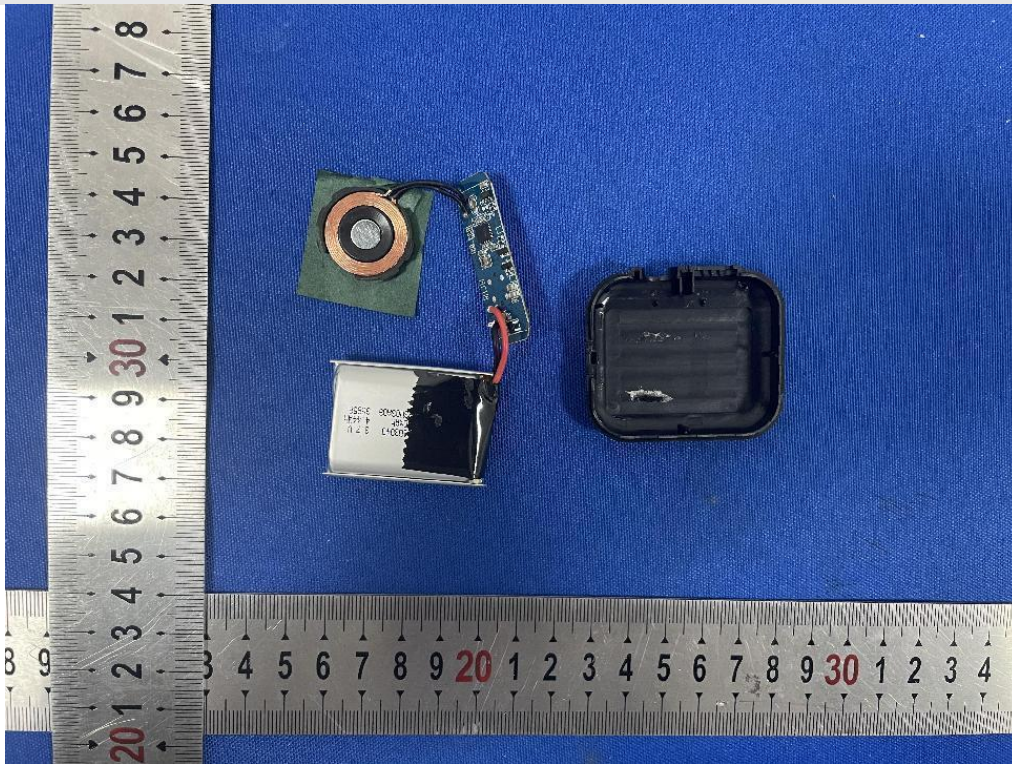
External-6



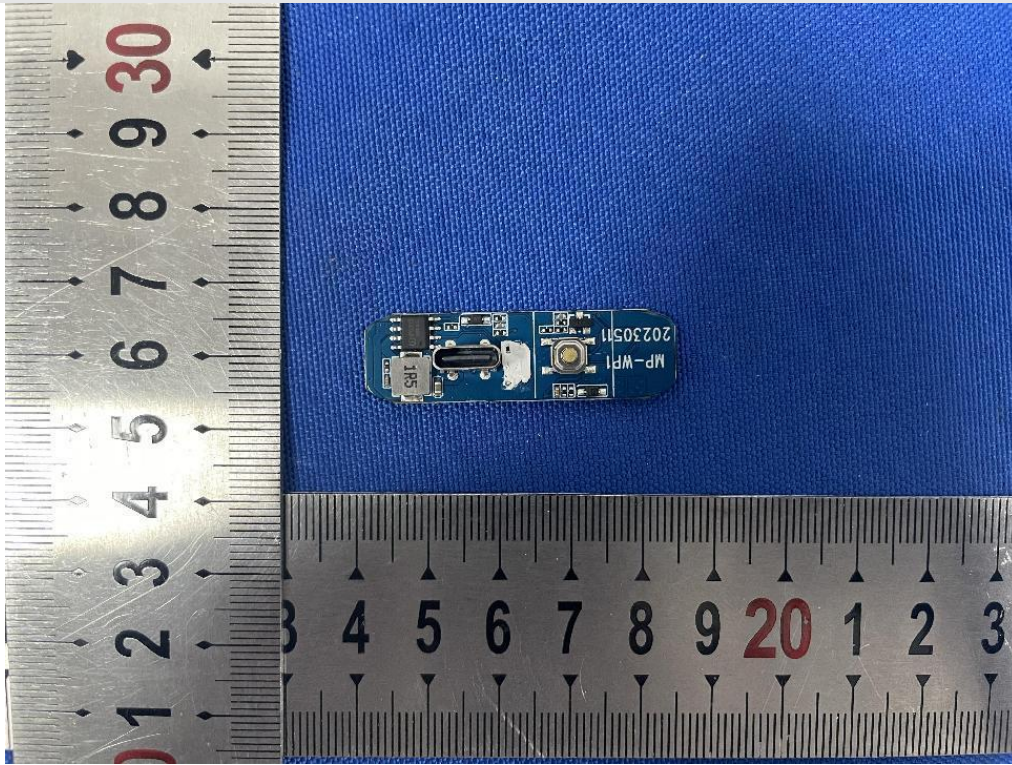
Internal-1



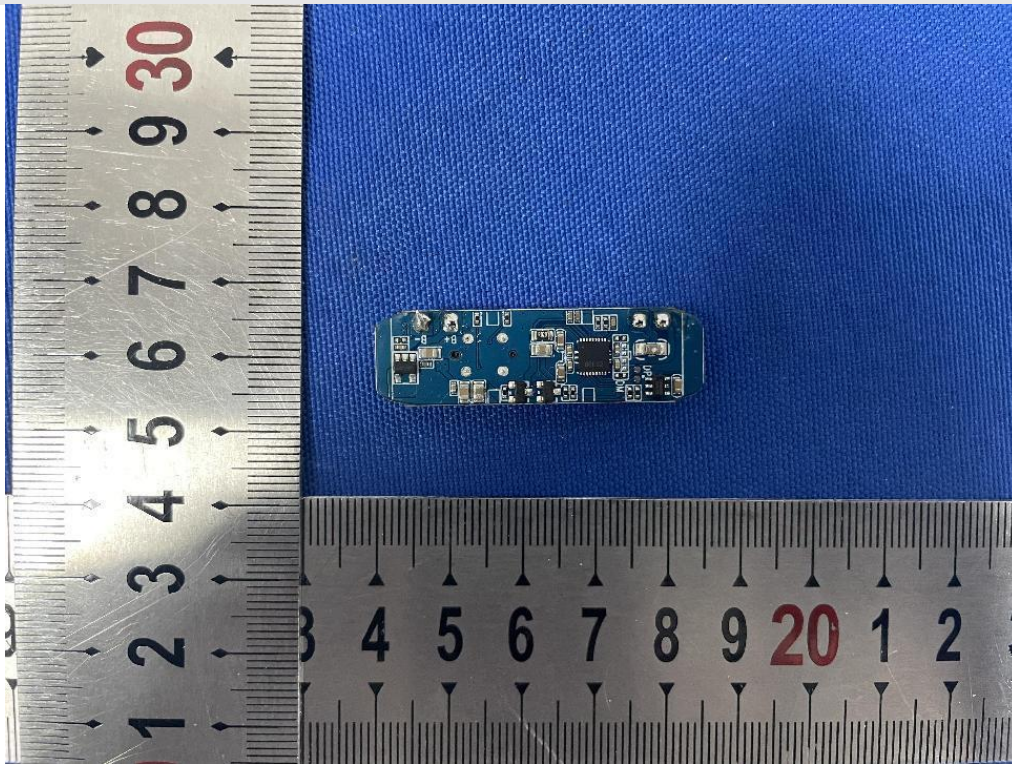
Internal-2



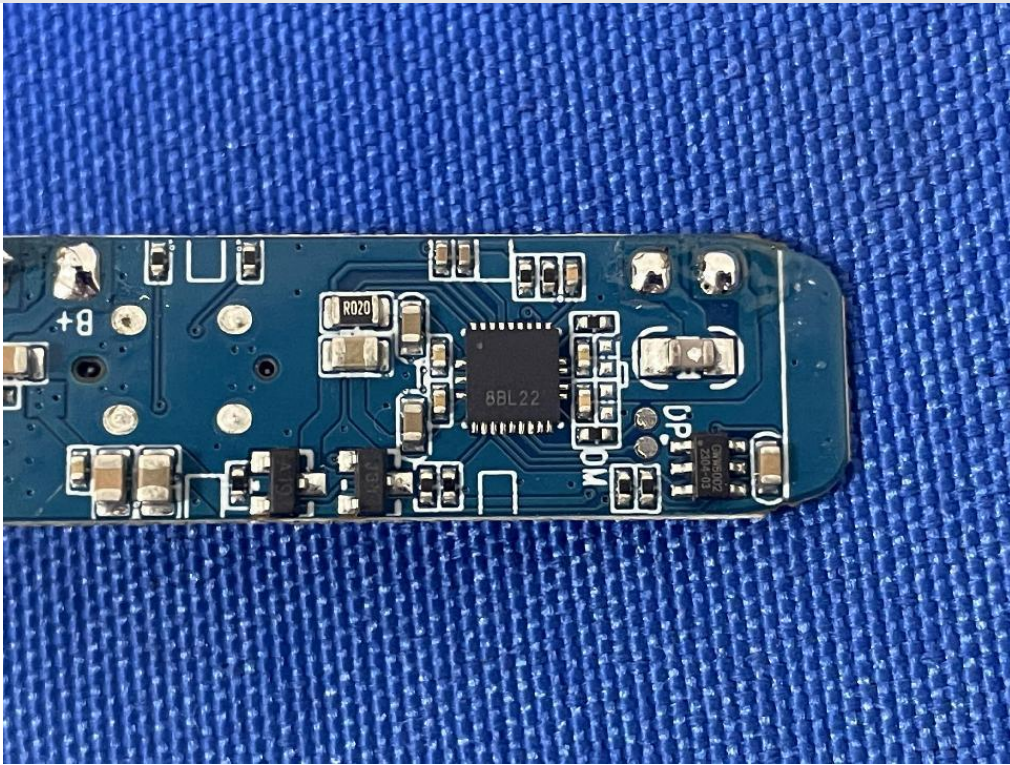
Internal-3



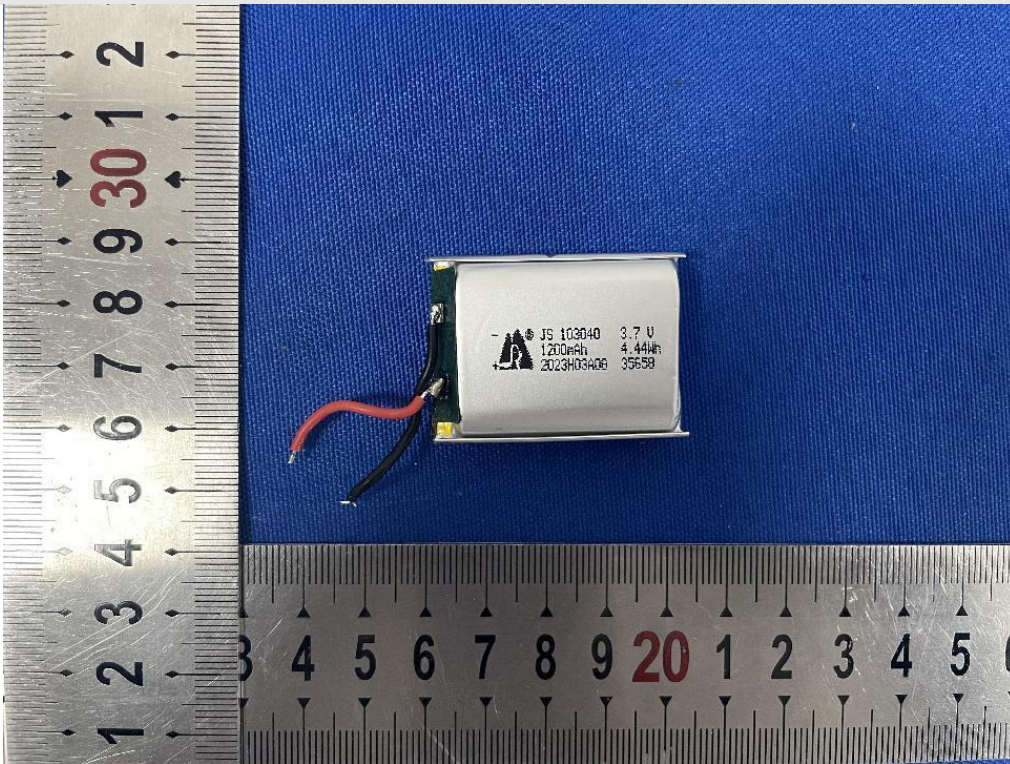
Internal-4



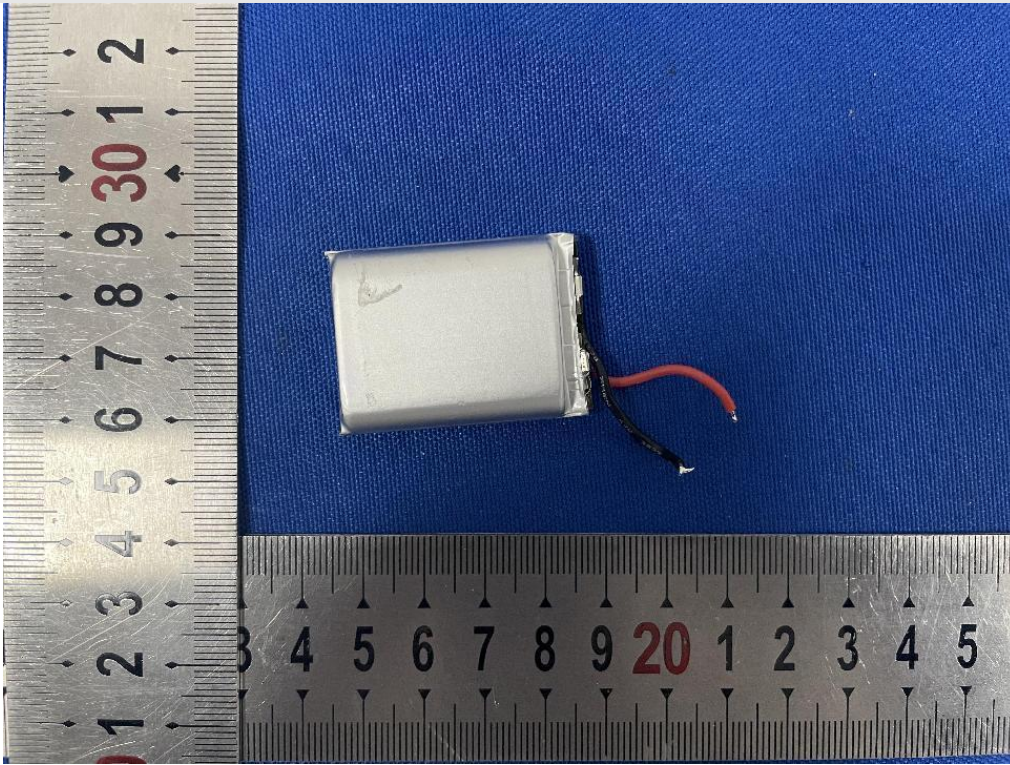
Internal-5



Internal-6



Internal-7



--- END OF REPORT---