



Shenzhen CTL Testing Technology Co., Ltd.
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

TEST REPORT

47 CFR Part 15, Subpart C

Report Reference No..... : **CTL2409261011-WF**

Compiled by
(position+printed name+signature)

Happy Guo
(File administrator)

Supervised by
(position+printed name+signature)

Jack Wang
(Test Engineer)

Approved by
(position+printed name+signature)

Ivan Xie
(Manager)



Test Firm..... : **Shenzhen CTL Testing Technology Co., Ltd.**

Address..... : Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

Applicant's name : **Yuwei Technology (Dongguan) Co., Ltd.**

Address..... : Room 301, No.15 Longjing Road, Guanjingtou, Fenggang Town, Dongguan City, Guangdong Province, China

Test specification:

Standard : 47 CFR Part 15, Subpart C

Master TRF : Dated 2011-01

Test item description : Power Bank

FCC ID : **2AZK8-C19PW**

Trade Mark..... : N/A

Model/Type reference : C19PW

Antenna type..... : loop coil Antenna

Date of receipt of test item : Sep. 27, 2024

Date of Test Date..... : Sep. 27, 2024–Oct. 10, 2024

Data of Issue..... : Oct. 14, 2024

Result..... : **Pass**

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TEST REPORT

Test Report No. :	CTL2409261011-WF	Oct. 14, 2024
		Date of issue

Equipment under Test : Power Bank

Type / Model(s) : C19PW

Applicant : **Yuwei Technology (Dongguan) Co., Ltd.**

Address : Room 301, No.15 Longjing Road, Guanjingtou, Fenggang Town, Dongguan City, Guangdong Province, China

Manufacturer : **Yuwei Technology (Dongguan) Co., Ltd.**

Address : Room 301, No.15 Longjing Road, Guanjingtou, Fenggang Town, Dongguan City, Guangdong Province, China

Test result	Pass *
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The test results presented in this report relate only to the object tested.
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Table of Contents

Page

1.	TEST STANDARDS.....	5
1.1	EUT configuration	5
2.	SUMMARY.....	6
2.1.	General Remarks	6
2.2.	Equipment Under Test	6
2.3.	Short description of the Equipment under Test (EUT)	6
2.4.	EUT operation mode	6
2.5.	Related Submittal(s) / Grant (s)	6
2.6.	Modifications	6
3.	TEST ENVIRONMENT.....	7
3.1.	Address of the test laboratory	7
3.2.	Test Facility	7
3.3.	Environmental conditions	7
3.4.	Statement of the measurement uncertainty	8
3.5.	Equipments Used during the Test	8
4.	TEST CONDITIONS AND RESULTS.....	9
4.1.	AC Power Conducted Emission	9
4.2.	Radiated Emission	12
4.3.	20dB Bandwidth/99% Bandwidth	23
5.	TEST SETUP PHOTOS OF THE EUT.....	24
6.	EXTERNAL AND INTERNAL PHOTOS OF THE EUT.....	27

1. TEST STANDARDS

The tests were performed according to following standards:

[47 CFR Part 15, Subpart C 15.207,15.209, 15.215\(c\)](#)

[ANSI C63.10-2013](#)

1.1 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

Wireless Charging Test Rack	Manufacturer :	YBZ
	Model No. :	F18

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Sep. 27, 2024
Testing commenced on	:	Sep. 27, 2024
Testing concluded on	:	Oct. 10, 2024

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage	:	Input: 5V===3A ,9V===2A Output : 5V===3A , 9V===2.22A, 12V===1.67A Battery Capacity: 3.85V 10000mAh/38.5Wh Wireless Charging: 15W(Max)
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2.3. Short description of the Equipment under Test (EUT)

A Power Bank work frequency range 110KHz-205KHz.
For more details, refer to the user's manual of the EUT.
Test Serial number: **CTL2409261011**

2.4. EUT operation mode

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting mode for testing.

Test Mode 1	AC Charging+Wireless output(15W MAX) full load
Test Mode 2	AC Charging+Wireless output(15W MAX) half load
Test Mode 3	AC Charging+Wireless output(15W MAX) no load
Test Mode 4	Wireless output(15W MAX) full load
Test Mode 5	Wireless output(15W MAX) half load
Test Mode 6	Wireless output(15W MAX) no load
Note: All modes have been tested and only the worst Test Mode 1&4 is reported.	

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AZK8-C19PW** filing to comply with FCC Part 15, Subpart C Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L7497

Shenzhen CTL Testing Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 4343.01

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: 9518B

CAB identifier: CN0041

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Registration No.: 9518B.

FCC-Registration No.: 399832

Designation No.: CN1216

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MH	4.10dB	(1)
Radiated Emission	30~1000MHz	4.08dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

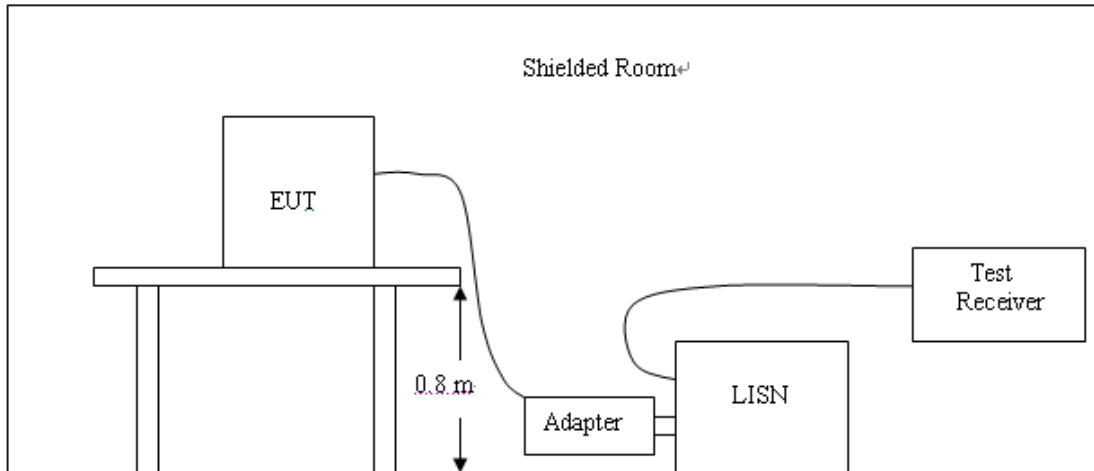
3.5. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ESH2-Z5	860014/010	2024/04/30	2025/04/29
Double cone logarithmic antenna	Schwarzbeck	VULB 9168	824	2023/02/13	2026/02/12
EMI Test Receiver	R&S	ESCI	1166.5950.03	2024/04/30	2025/04/29
Spectrum Analyzer	Keysight	N9020A	MY53420874	2024/05/01	2025/04/30
Active Loop Antenna	Da Ze	ZN30900A	/	2024/04/30	2025/04/29
Spectrum Analyzer	RS	FSP	1164.4391.38	2024/05/03	2025/05/02
9KHz-40GHz coaxial line	/	Z108-NJ-NJ-9.5M	21121049	2023/12/06	2024/12/05
Software:					
Name of Software:			Version:		
ES-K1			V1.71		

4. TEST CONDITIONS AND RESULTS

4.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC5V power from the adapter, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

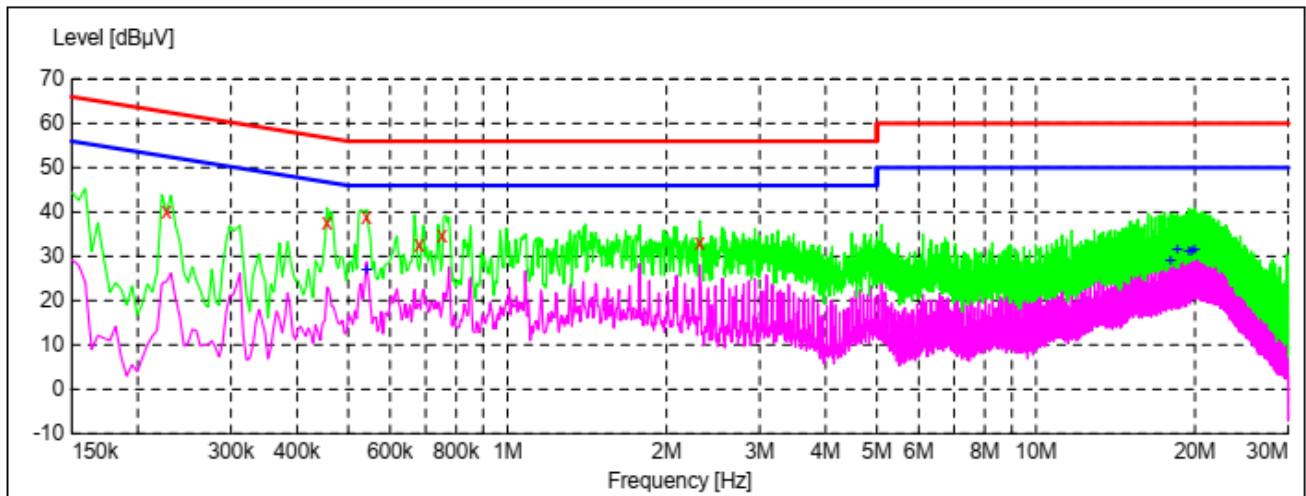
TEST RESULTS

Test Mode 1

L

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage



x x x MES CTL240912217_fin

MEASUREMENT RESULT: "CTL240912217_fin"

10/8/2024 9:33AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.226500	40.20	10.0	63	22.4	QP	L1	GND
0.456000	37.40	10.0	57	19.4	QP	L1	GND
0.541500	38.90	10.0	56	17.1	QP	L1	GND
0.681000	32.80	10.0	56	23.2	QP	L1	GND
0.753000	34.80	10.0	56	21.2	QP	L1	GND
2.314500	33.00	10.1	56	23.0	QP	L1	GND

MEASUREMENT RESULT: "CTL240912217_fin2"

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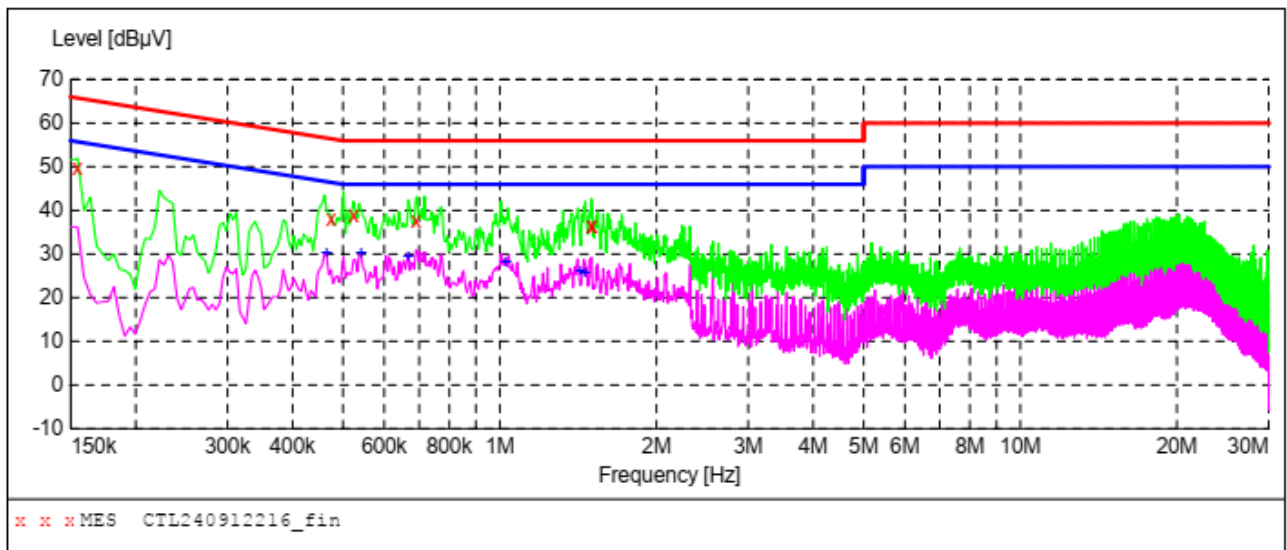
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.541500	26.60	10.0	46	19.4	AV	L1	GND
18.006000	28.80	11.2	50	21.2	AV	L1	GND
18.496500	31.50	11.2	50	18.5	AV	L1	GND
19.468500	30.80	11.2	50	19.2	AV	L1	GND
19.711500	30.80	11.2	50	19.2	AV	L1	GND
19.954500	31.20	11.2	50	18.8	AV	L1	GND

Test Mode 1

N

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "CTL240912216_fin"

10/8/2024 9:29AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154500	49.80	10.0	66	16.0	QP	N	GND
0.474000	38.20	10.0	56	18.2	QP	N	GND
0.523500	38.80	10.0	56	17.2	QP	N	GND
0.690000	37.70	10.0	56	18.3	QP	N	GND
1.500000	36.30	10.1	56	19.7	QP	N	GND
1.504500	36.40	10.1	56	19.6	QP	N	GND

MEASUREMENT RESULT: "CTL240912216_fin2"

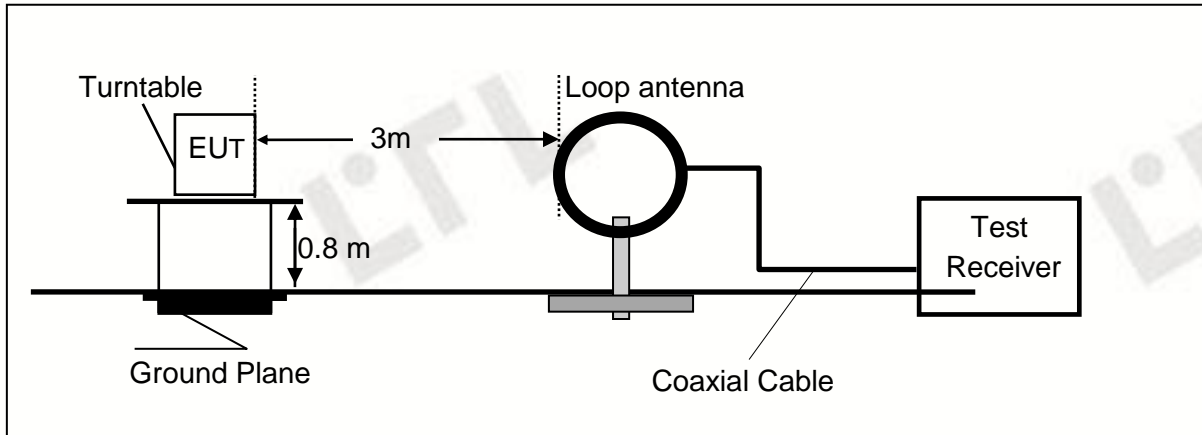
10/8/2024 9:29AM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.465000	30.30	10.0	47	16.3	AV	N	GND
0.541500	30.00	10.0	46	16.0	AV	N	GND
0.667500	29.10	10.0	46	16.9	AV	N	GND
1.027500	27.90	10.1	46	18.1	AV	N	GND
1.428000	26.10	10.1	46	19.9	AV	N	GND
1.455000	25.40	10.1	46	20.6	AV	N	GND

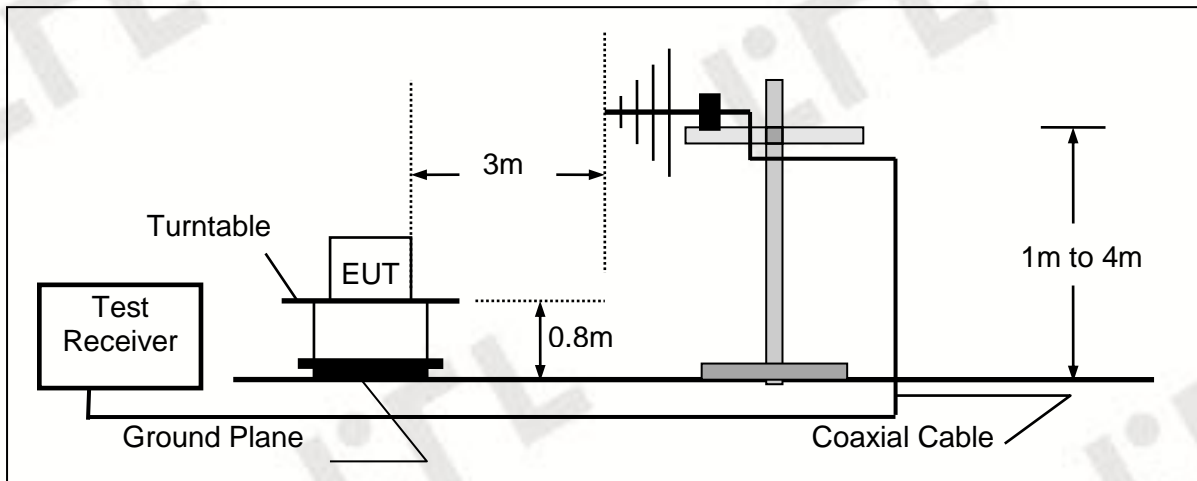
4.2. Radiated Emission

TEST CONFIGURATION

Radiated Emission Test Set-Up
 Frequency range 9KHz – 30MHz



Frequency range 30MHz – 1000MHz



TEST PROCEDURE

- 1 The EUT was placed on a turn table which is 0.8m above ground plane.
- 2 Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- 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 measurements have been completed.

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
300.00	36.8	58.1	12.4	1.5	31.90	-18.0

$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

RADIATION LIMIT

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

9k~30MHz:

Frequency Range (MHz)	E-field Strength Limit @ 30m (mV/m)	E-field Strength Limit @ 3m (dB μ V/m)
0.009-0.490	2400/F(kHz)	129-94
0.490-1.705	24000/F(kHz)	74-63
1.705-30	30	70

Note: Where the limits have been defined at one distance, and a signal level measured at another, the limits have been extrapolated using the following formula:

$$\text{Extrapolation(dB)} = 40 \log_{10} (\text{Measurement Distance} / \text{Specification Distance})$$

Note:

- (1) The tighter limit shall apply at the edge between two frequency bands.
- (2) dB μ V/m = 20*log(uV/m)

30M~1GHz:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

Note:

- (1) The tighter limit shall apply at the edge between two frequency bands.
- (2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

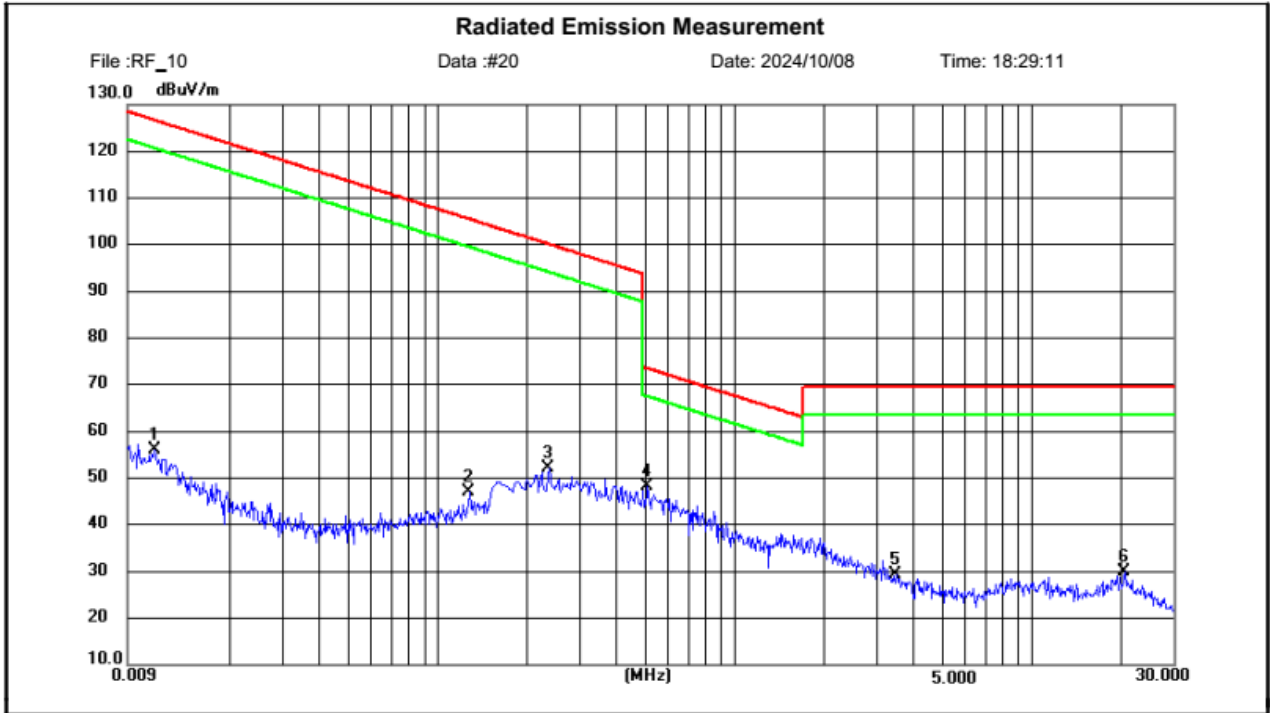
TEST RESULTS

WORST-CASE RADIATED EMISSION BELOW 30 MHz

Test Mode 1



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Site LAB Chamber 2 Polarization: **Horizontal** Temperature: 25(C)
 Limit: FCC Part 15 9K-30MHZ-2 Power: Humidity: 50 %
 EUT: Distance: 3m
 M/N: C19PW
 Mode: 148.4KHz
 Note: Yuwei Technology (Dongguan) Co., Ltd.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	0.0112	33.62	22.40	56.02	126.62	70.60	peak		P	
2	0.1274	25.15	21.77	46.92	105.50	58.58	peak		P	
3	0.2355	29.25	22.86	52.11	100.16	48.05	peak		P	
4	0.5055	26.08	22.03	48.11	73.53	25.42	peak		P	
5	3.4845	11.22	18.01	29.23	69.54	40.31	peak		P	
6	20.6385	9.14	20.90	30.04	69.54	39.50	peak		P	

Test Mode 1



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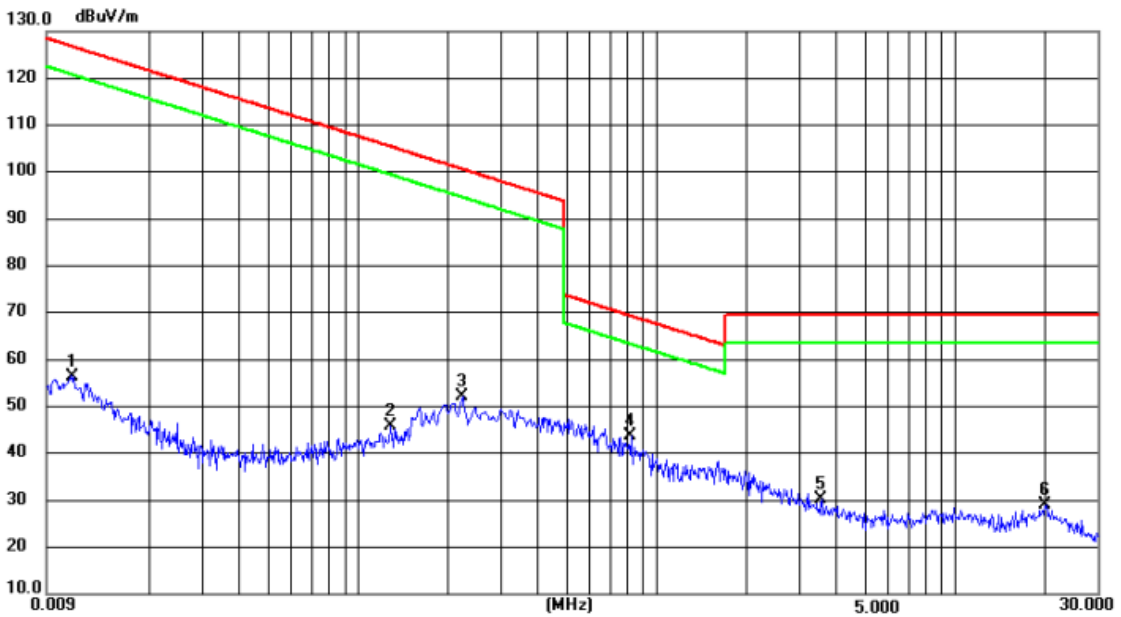
Radiated Emission Measurement

File :RF_10

Data :#22

Date: 2024/10/08

Time: 18:33:12



Site LAB Chamber 2

Polarization: **Vertical**

Temperature: 25(C)

Limit: FCC Part 15 9K-30MHZ-2

Power:

Humidity: 50 %

EUT:

Distance: 3m

M/N: C19PW

Mode: 148.4KHz

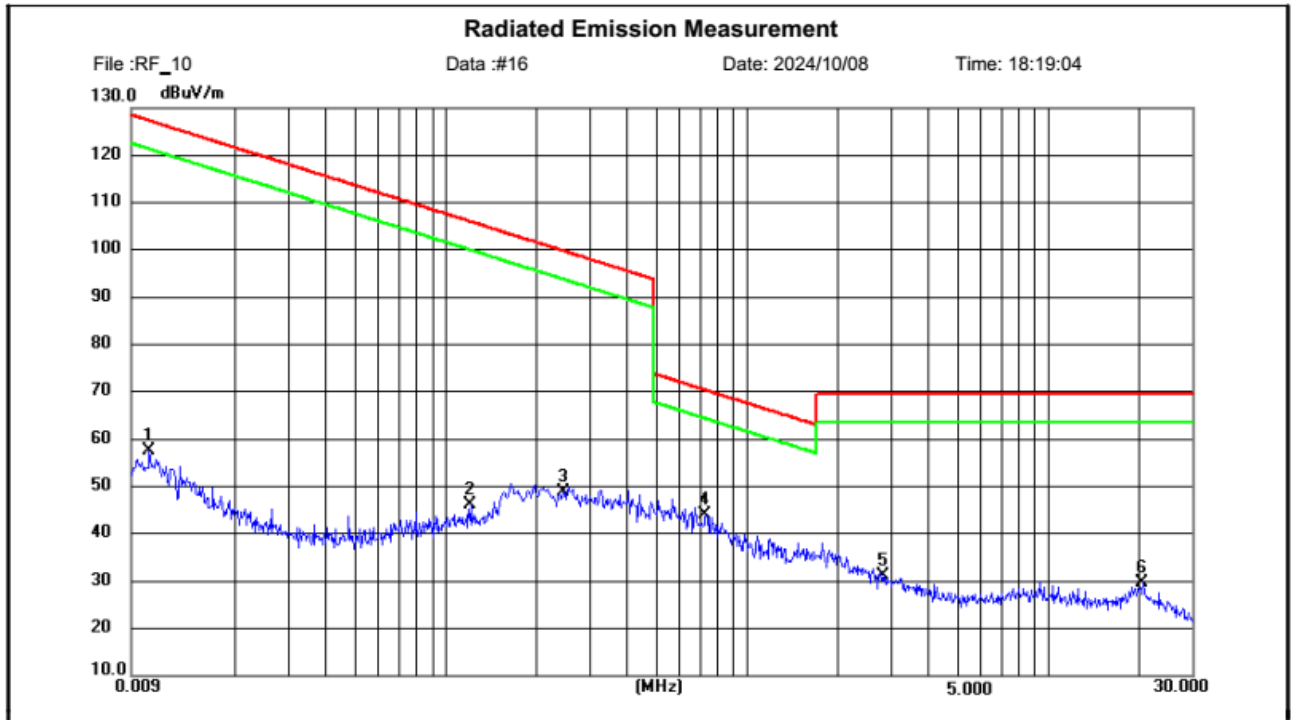
Note: Yuwei Technology (Dongguan) Co., Ltd.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			P/F	Remark
1	0.0111	34.02	22.42	56.44	126.70	70.26	peak			P	
2	0.1275	24.15	21.78	45.93	105.49	59.56	peak			P	
3	0.2220	29.48	22.72	52.20	100.68	48.48	peak			P	
4	0.8160	25.29	18.31	43.60	69.37	25.77	peak			P	
5	3.5655	12.36	17.97	30.33	69.54	39.21	peak			P	
6	20.1075	7.73	21.23	28.96	69.54	40.58	peak			P	

Test Mode 4



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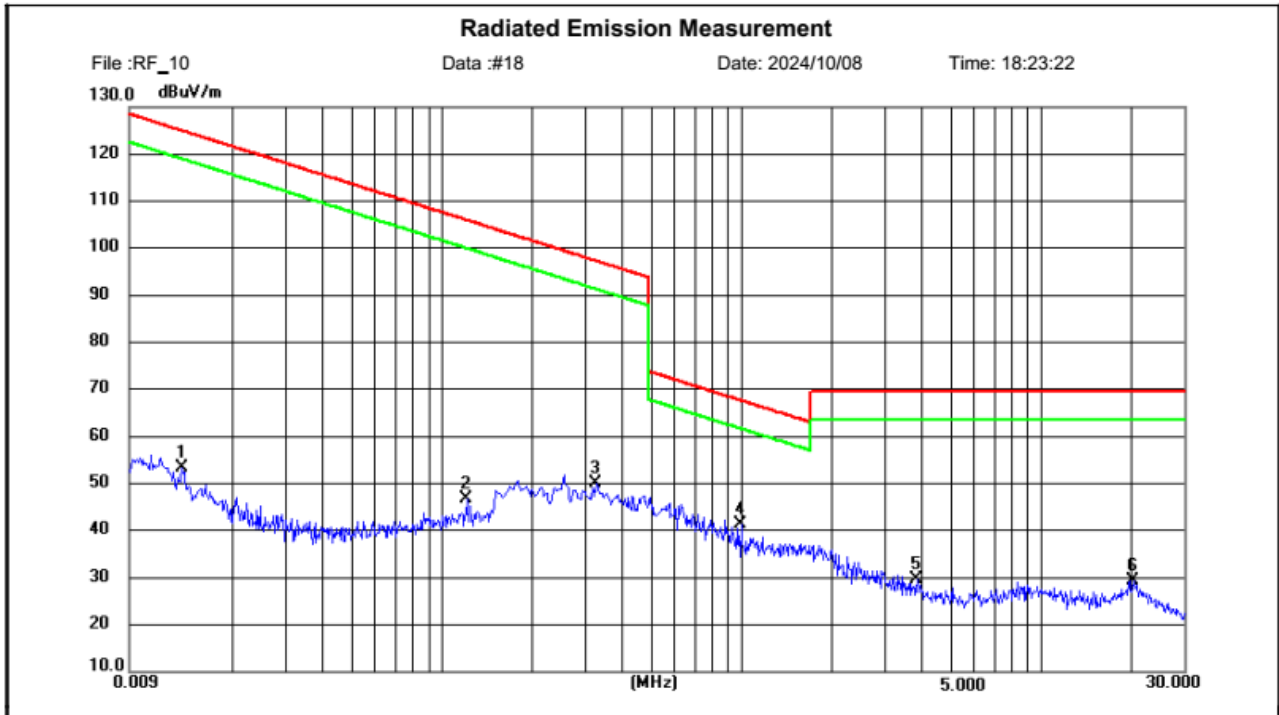
Site LAB Chamber 2 Polarization: **Horizontal** Temperature: 25(C)
 Limit: FCC Part 15 9K-30MHZ-2 Power: Humidity: 50 %
 EUT: Distance: 3m
 M/N: C19PW
 Mode: 148.4KHz
 Note: Yuwei Technology (Dongguan) Co., Ltd.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	0.0104	35.16	22.53	57.69	127.26	69.57	peak		P	
2	0.1198	24.43	21.70	46.13	106.04	59.91	peak		P	
3	0.2445	25.88	22.95	48.83	99.84	51.01	peak		P	
4	0.7304	24.85	19.34	44.19	70.33	26.14	peak		P	
5	2.8410	13.20	18.03	31.23	69.54	38.31	peak		P	
6	20.5889	8.79	20.93	29.72	69.54	39.82	peak		P	

Test Mode 4



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Site LAB Chamber 2

Limit: FCC Part 15 9K-30MHZ-2

EUT:

M/N: C19PW

Mode: 148.4KHz

Note: Yuwei Technology (Dongguan) Co., Ltd.

Polarization: *Vertical*

Power:

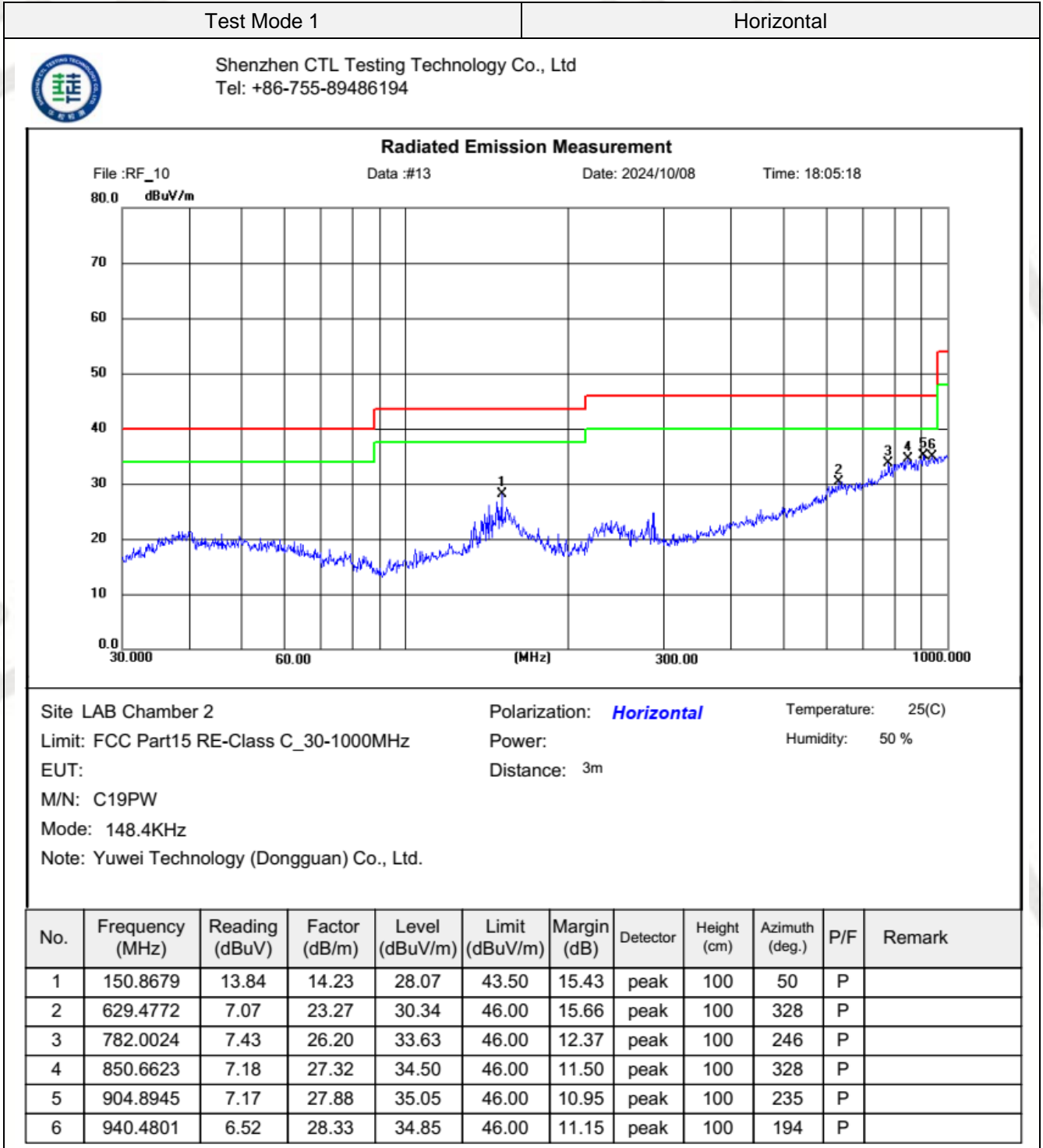
Distance: 3m

Temperature: 25(C)

Humidity: 50 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		P/F	Remark
1	0.0136	31.20	22.00	53.20	124.93	71.73	peak		P	
2	0.1204	24.94	21.70	46.64	105.99	59.35	peak		P	
3	0.3255	26.63	23.32	49.95	97.35	47.40	peak		P	
4	0.9870	25.14	16.26	41.40	67.72	26.32	peak		P	
5	3.8265	11.67	17.87	29.54	69.54	40.00	peak		P	
6	20.1884	8.04	21.18	29.22	69.54	40.32	peak		P	

Radiated Emission Test Data 30-1000MHz:



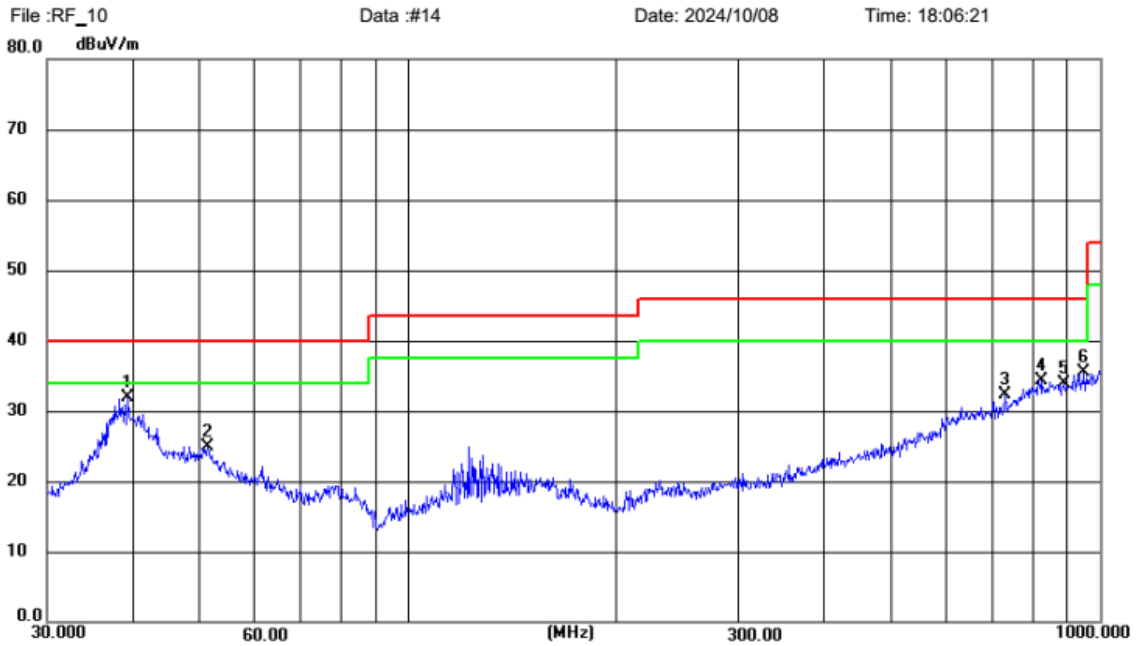
Test Mode 1

Vertical



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Radiated Emission Measurement



Site LAB Chamber 2 Polarization: **Vertical** Temperature: 25(C)
 Limit: FCC Part15 RE-Class C_30-1000MHz Power: Humidity: 50 %
 EUT: Distance: 3m
 M/N: C19PW
 Mode: 148.4KHz
 Note: Yuwei Technology (Dongguan) Co., Ltd.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	39.3681	17.24	14.70	31.94	40.00	8.06	peak	100	12	P	
2	51.4130	10.27	14.68	24.95	40.00	15.05	peak	100	341	P	
3	729.9979	7.77	24.54	32.31	46.00	13.69	peak	100	218	P	
4	823.8743	7.28	26.94	34.22	46.00	11.78	peak	100	208	P	
5	887.6099	6.45	27.41	33.86	46.00	12.14	peak	100	146	P	
6	951.2594	7.17	28.35	35.52	46.00	10.48	peak	100	249	P	

Test Mode 4

Horizontal



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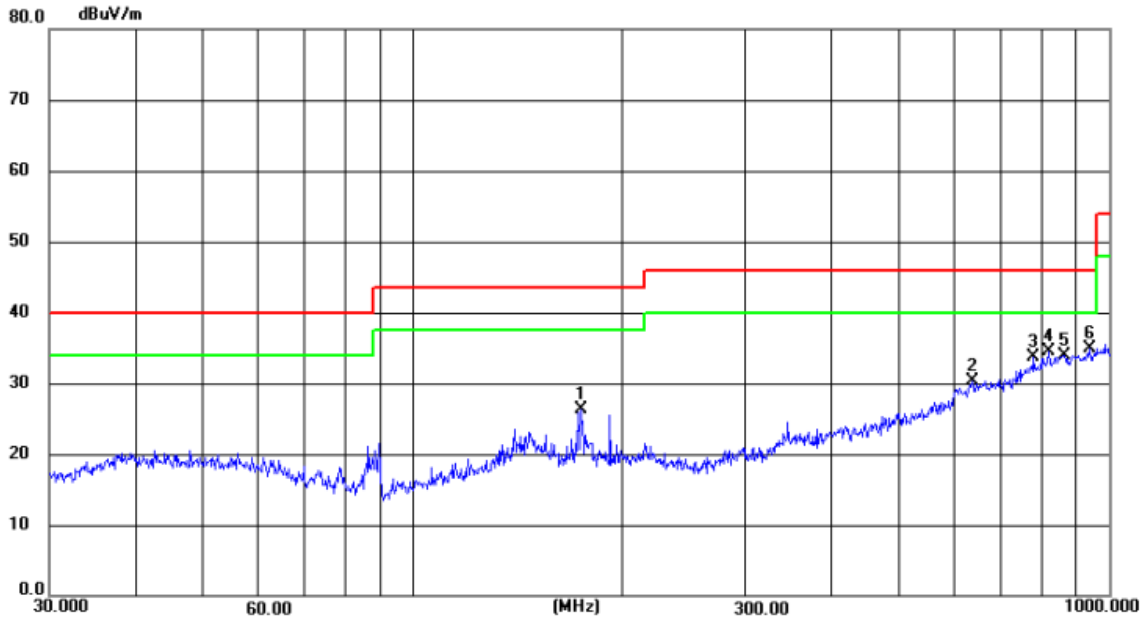
Radiated Emission Measurement

File :RF_10

Data :#11

Date: 2024/10/08

Time: 18:02:05



Site LAB Chamber 2

Polarization: *Horizontal*

Temperature: 25(C)

Limit: FCC Part15 RE-Class C_30-1000MHz

Power:

Humidity: 50 %

EUT:

Distance: 3m

M/N: C19PW

Mode: 148.4KHz

Note: Yuwei Technology (Dongguan) Co., Ltd.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	174.8067	13.21	13.15	26.36	43.50	17.14	peak	100	204	P	
2	636.9709	6.91	23.41	30.32	46.00	15.68	peak	100	193	P	
3	780.9748	7.56	26.18	33.74	46.00	12.26	peak	100	275	P	
4	821.3503	7.43	26.98	34.41	46.00	11.59	peak	100	183	P	
5	864.5707	6.27	27.58	33.85	46.00	12.15	peak	100	285	P	
6	940.8924	6.56	28.34	34.90	46.00	11.10	peak	100	193	P	

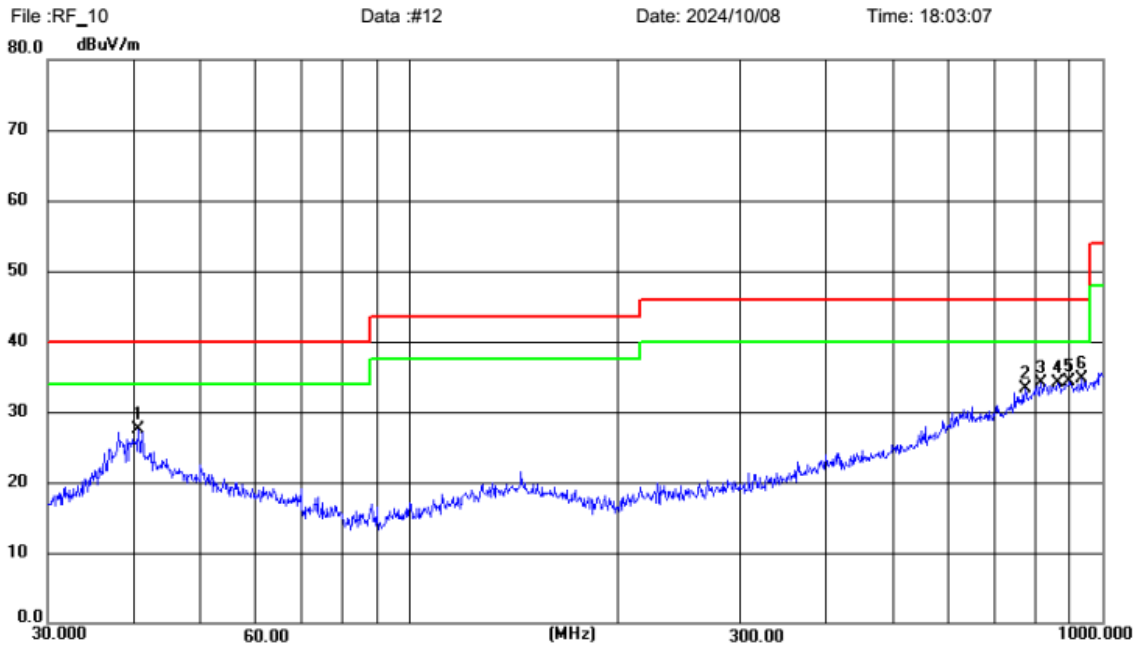
Test Mode 4

Vertical



Shenzhen CTL Testing Technology Co., Ltd
Tel: +86-755-89486194

Radiated Emission Measurement

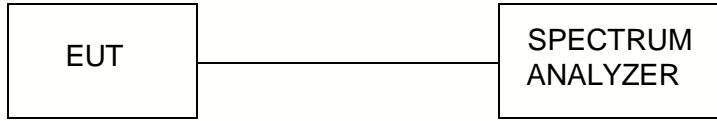


Site LAB Chamber 2 Polarization: **Vertical** Temperature: 25(C)
 Limit: FCC Part15 RE-Class C_30-1000MHz Power: Humidity: 50 %
 EUT: Distance: 3m
 M/N: C19PW
 Mode: 148.4KHz
 Note: Yuwei Technology (Dongguan) Co., Ltd.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	40.6303	12.64	14.78	27.42	40.00	12.58	peak	100	351	P	
2	775.5169	7.26	26.05	33.31	46.00	12.69	peak	100	249	P	
3	816.3256	7.03	27.00	34.03	46.00	11.97	peak	100	75	P	
4	865.7084	6.57	27.48	34.05	46.00	11.95	peak	100	95	P	
5	898.5706	6.50	27.80	34.30	46.00	11.70	peak	100	228	P	
6	935.5463	6.35	28.33	34.68	46.00	11.32	peak	100	24	P	

4.3. 20dB Bandwidth/99% Bandwidth

TEST CONFIGURATION



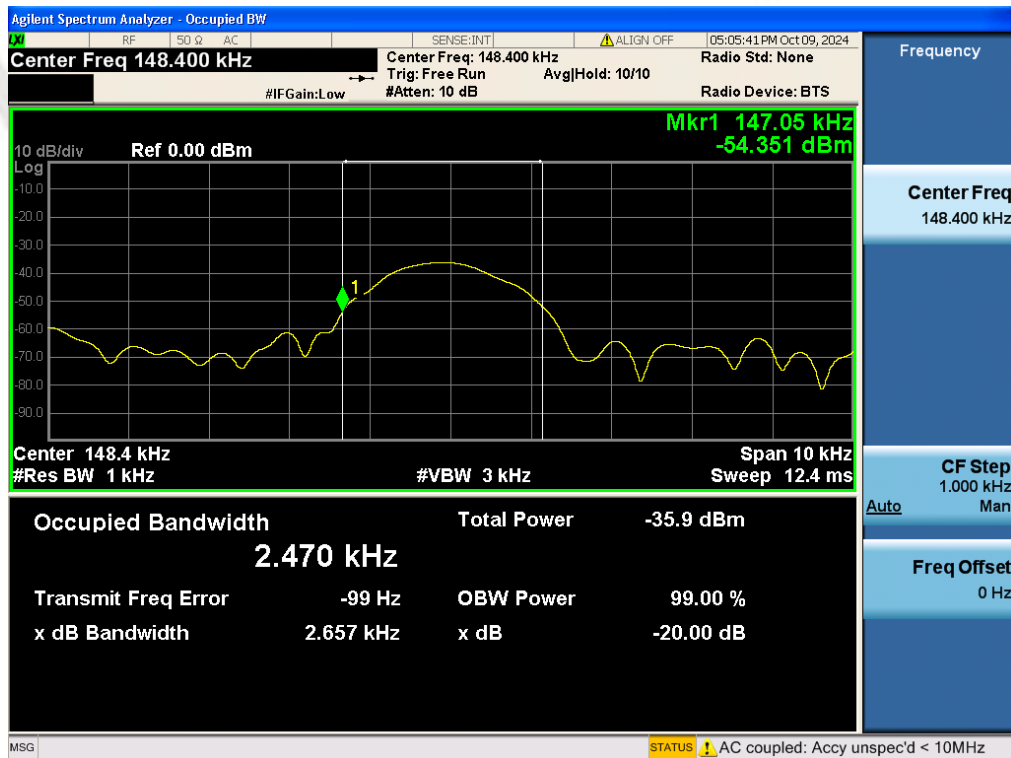
TEST PROCEDURE

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.

LIMIT

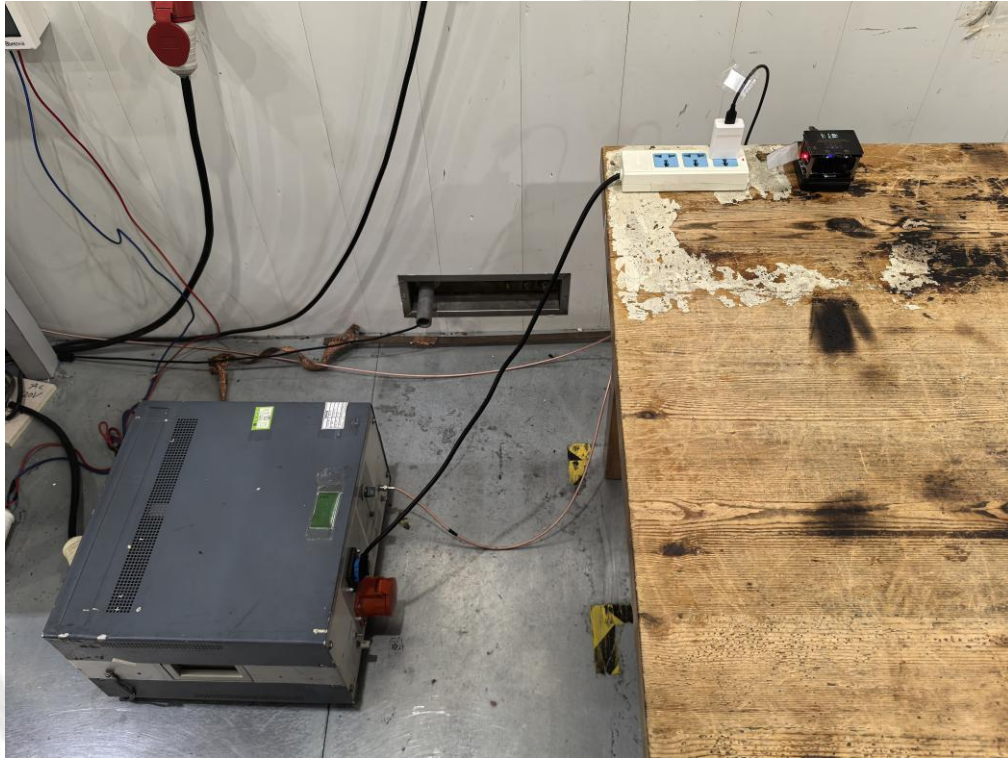
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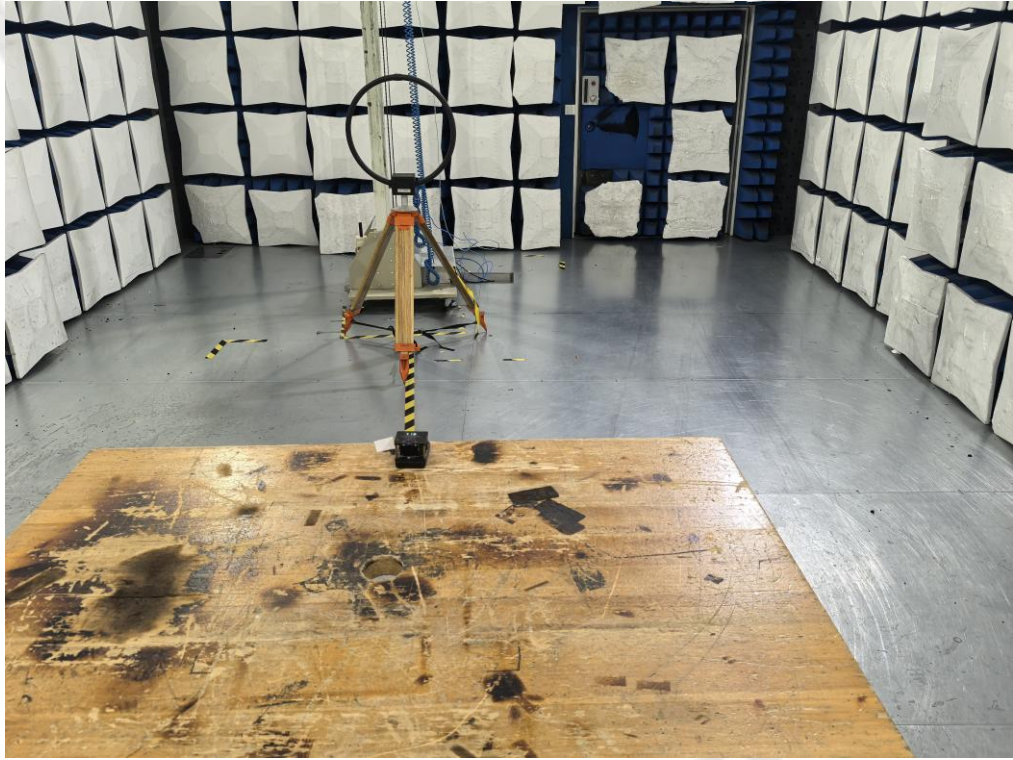
TEST RESULTS

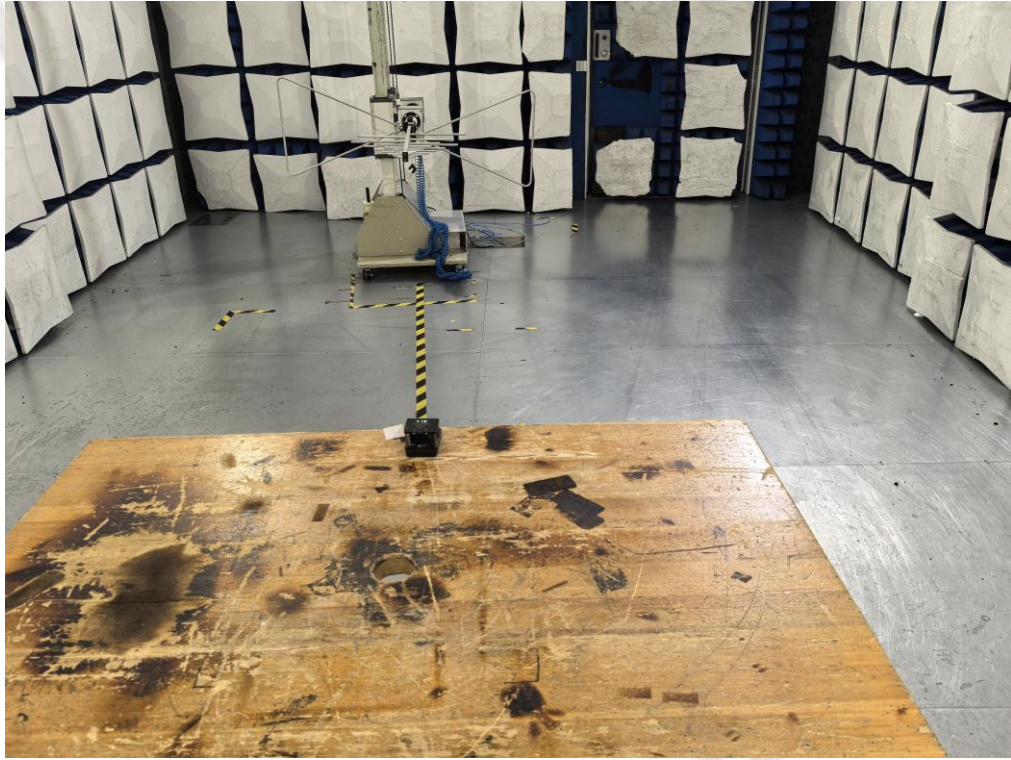


Frequency (kHz)	20dB Bandwidth (kHz)	Limit(kHz)	Verdict
148.40	2.657	/	PASS

5. Test Setup Photos of the EUT

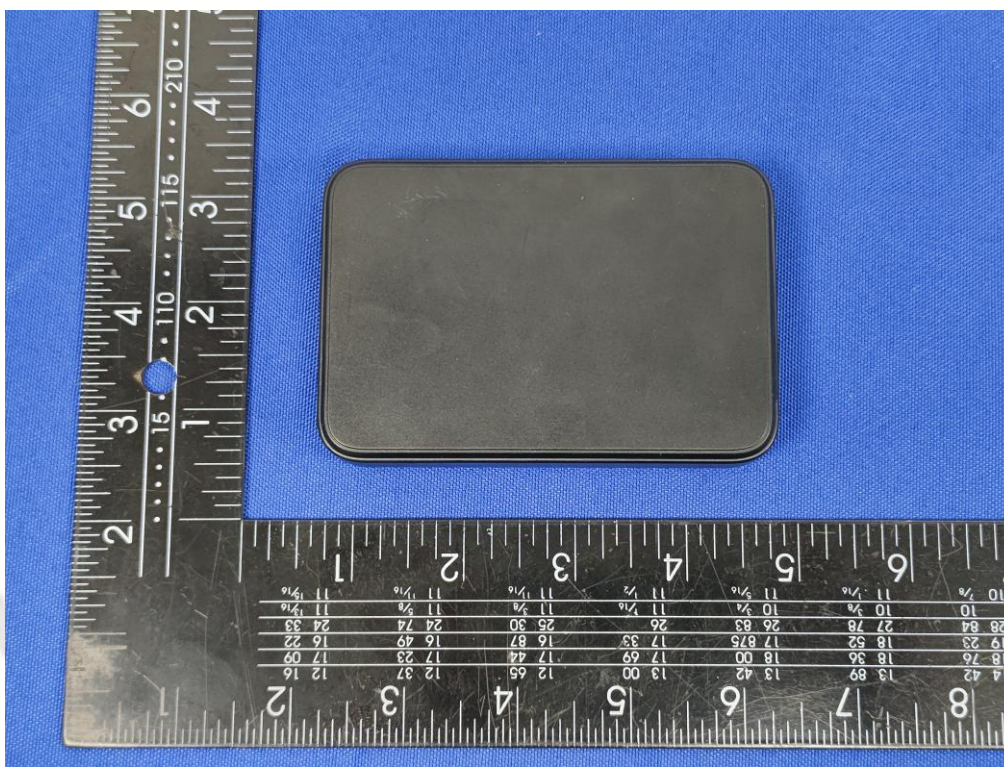
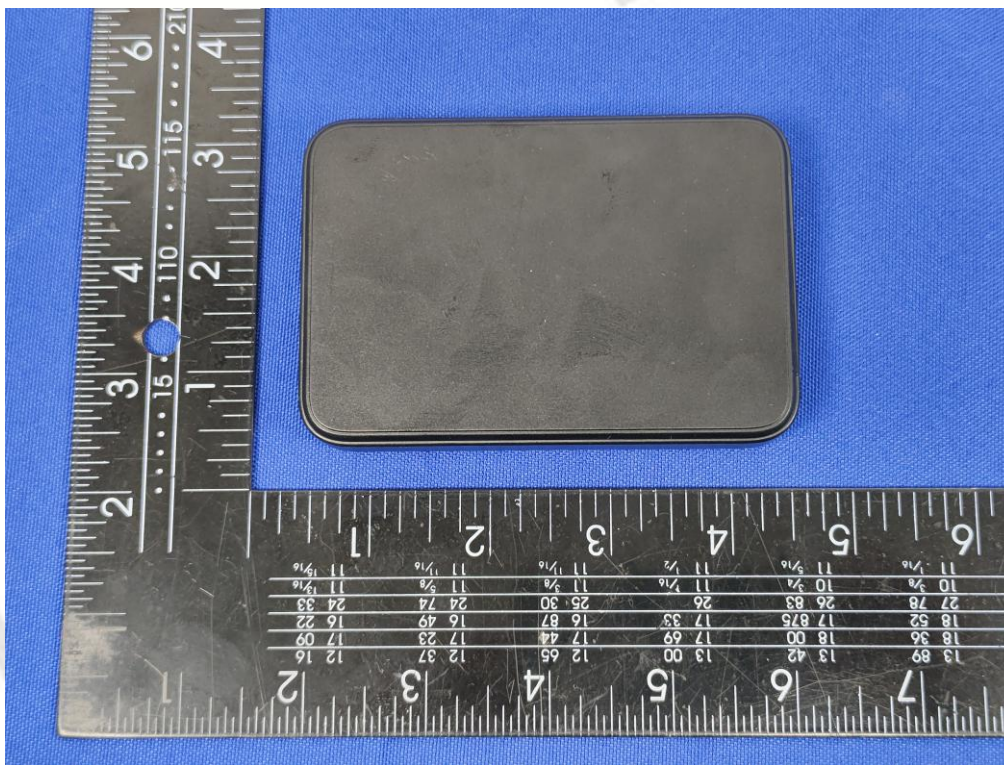


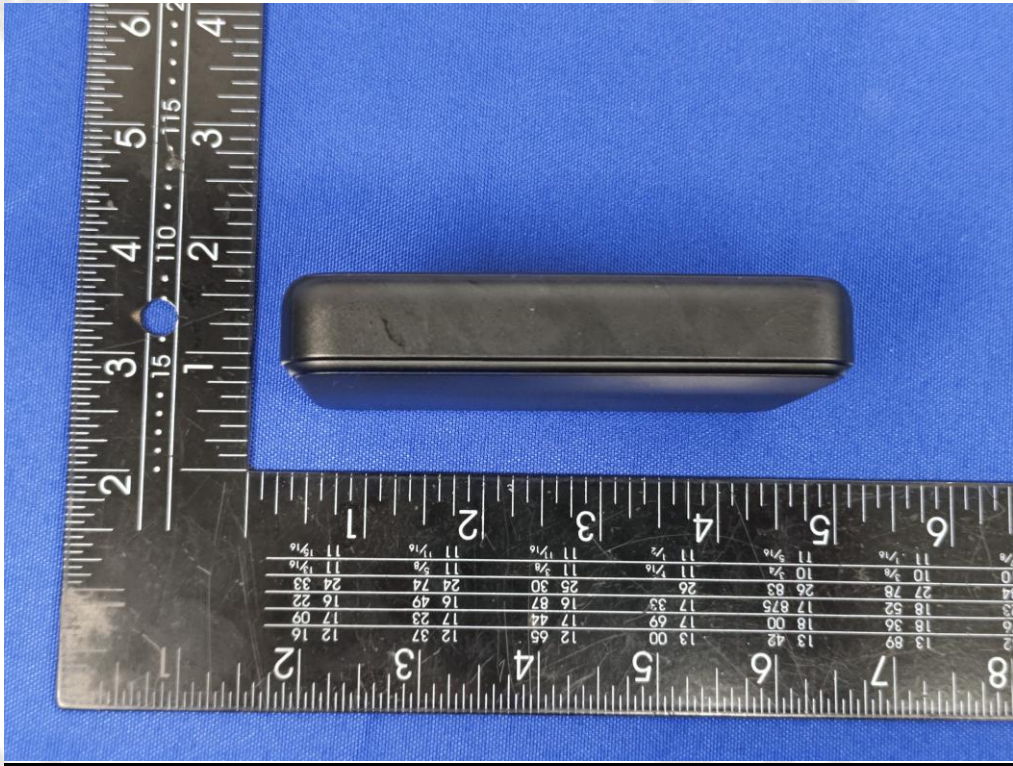


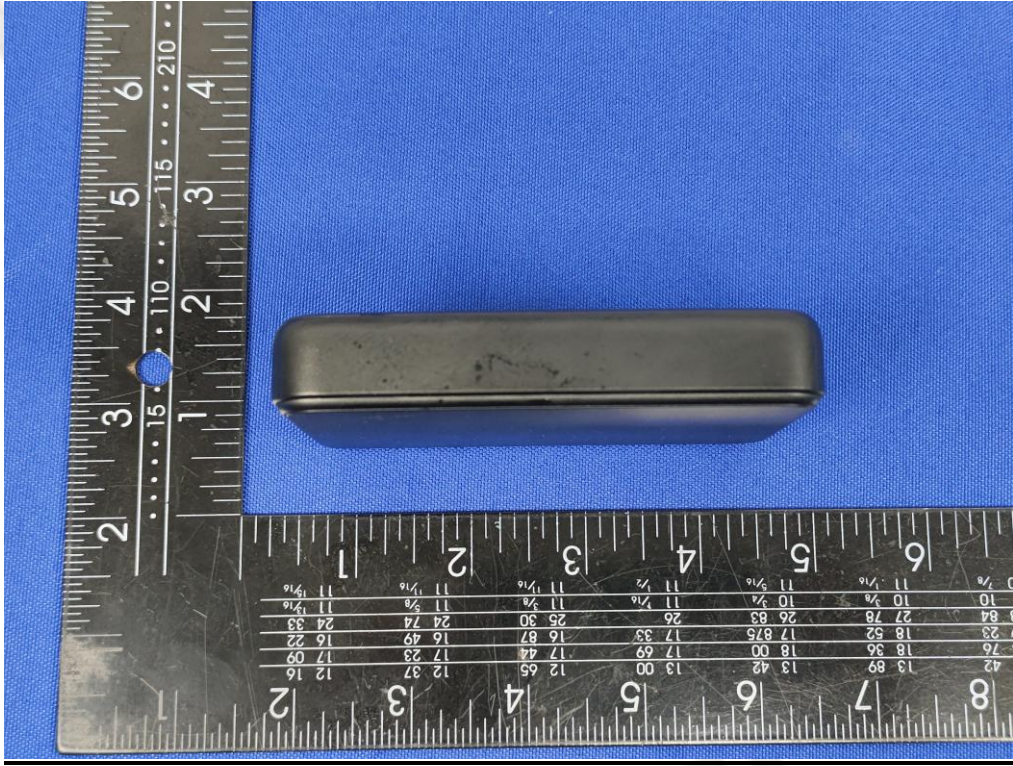


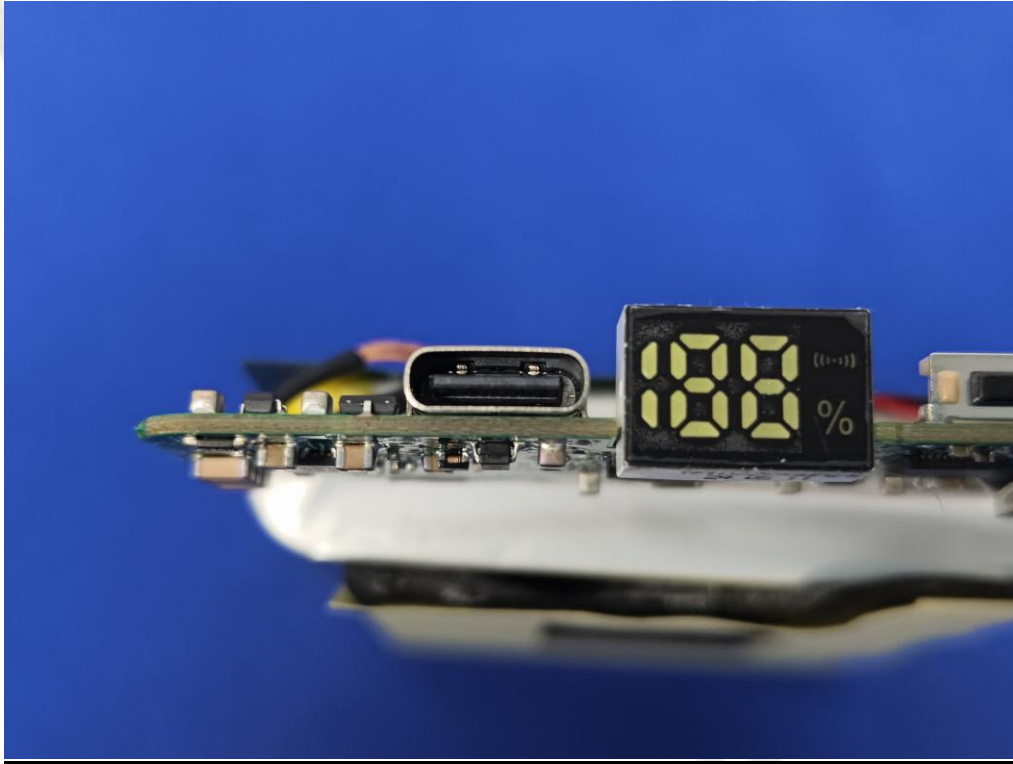
6. External and Internal Photos of the EUT

External Photos of EUT

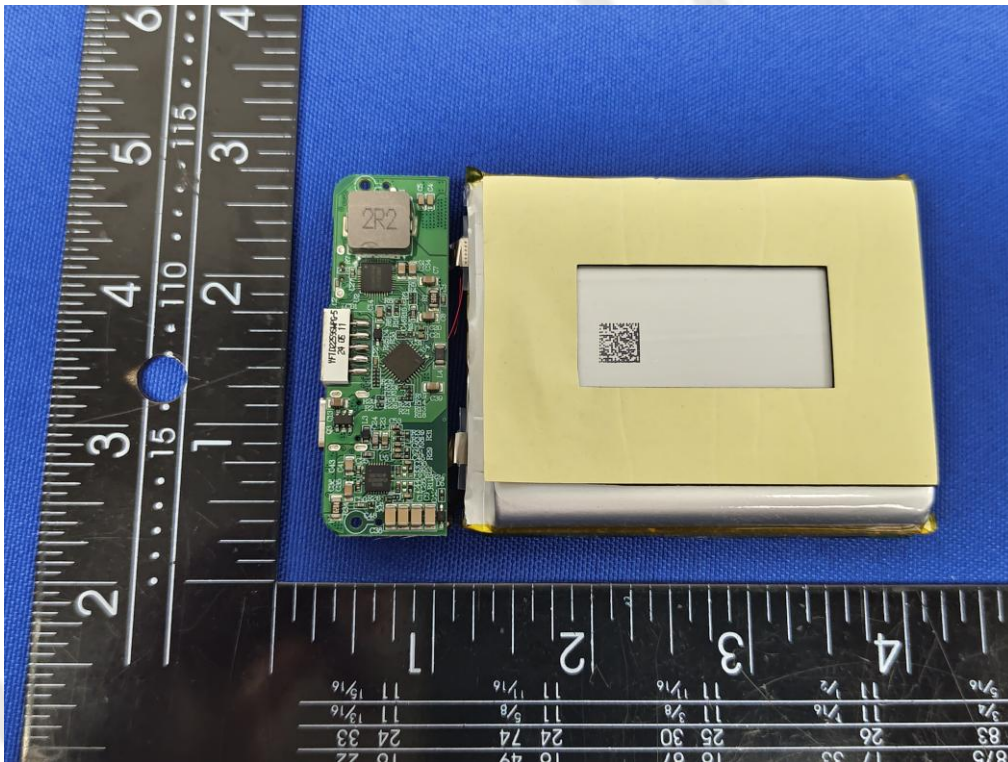
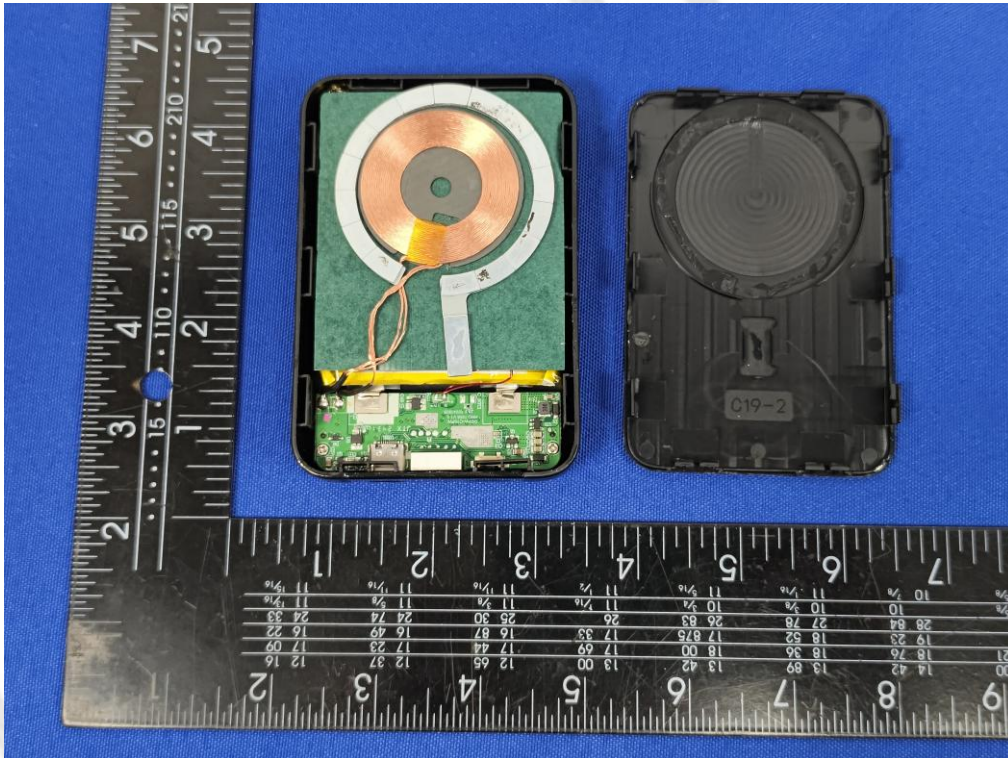


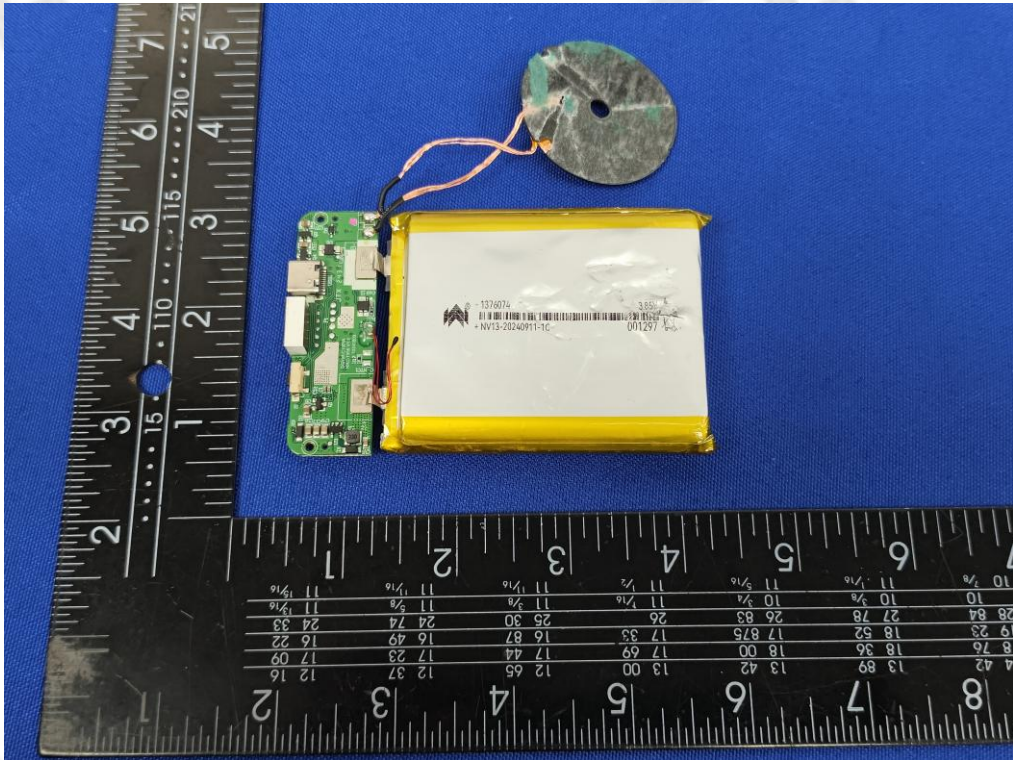
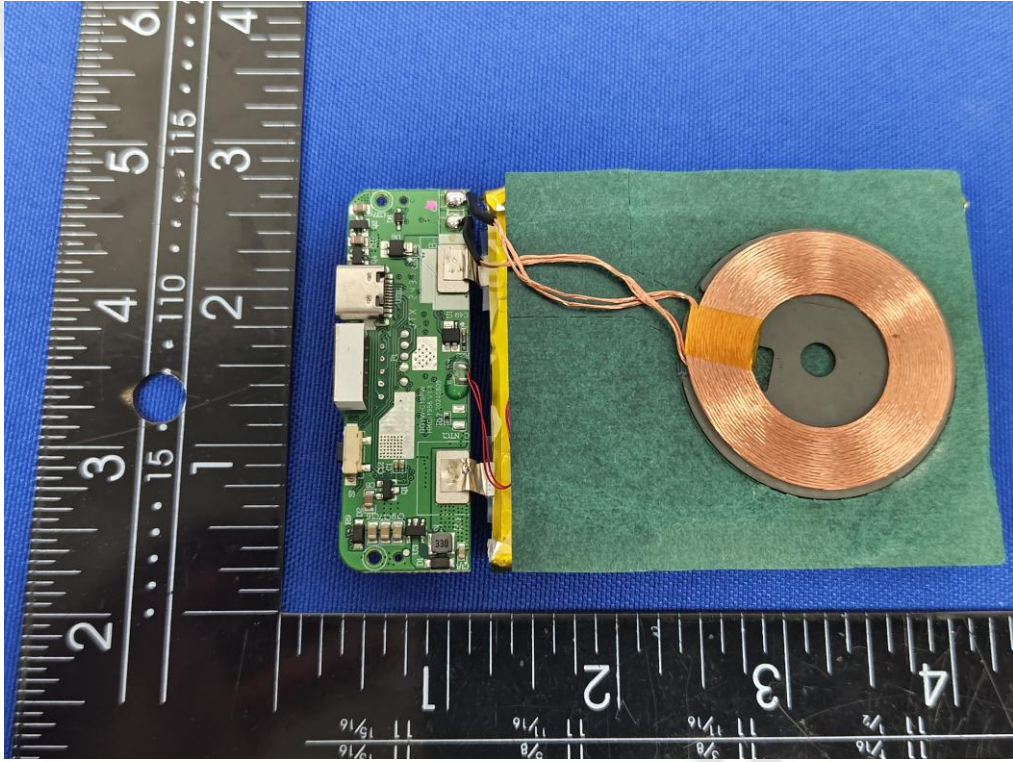


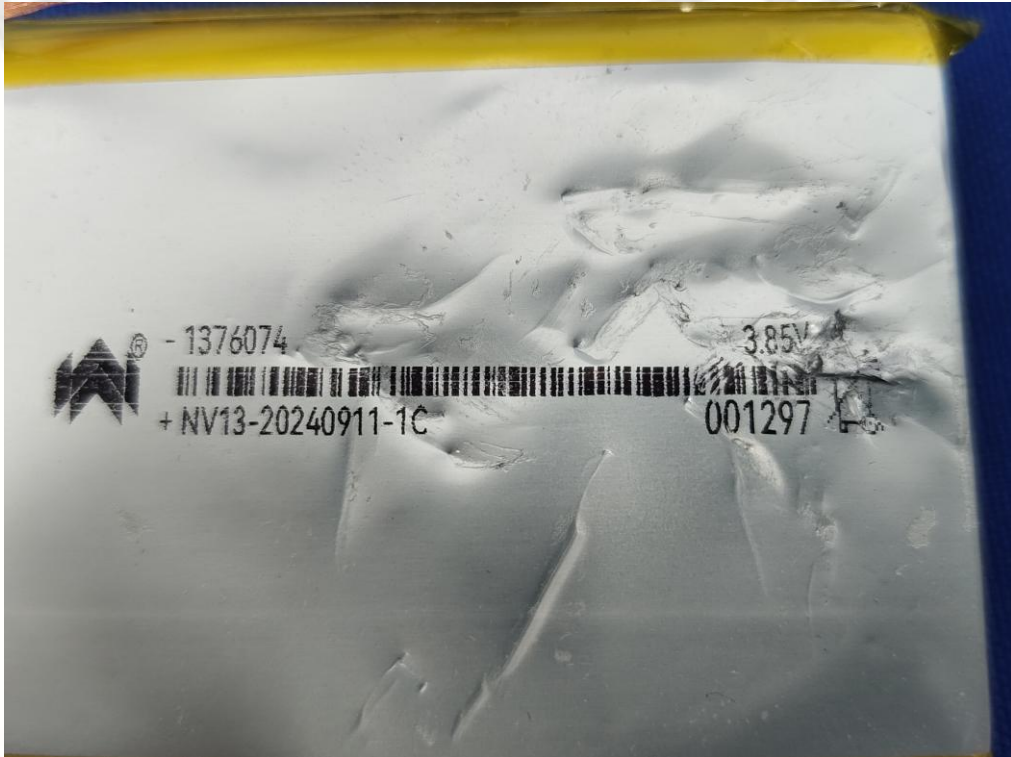
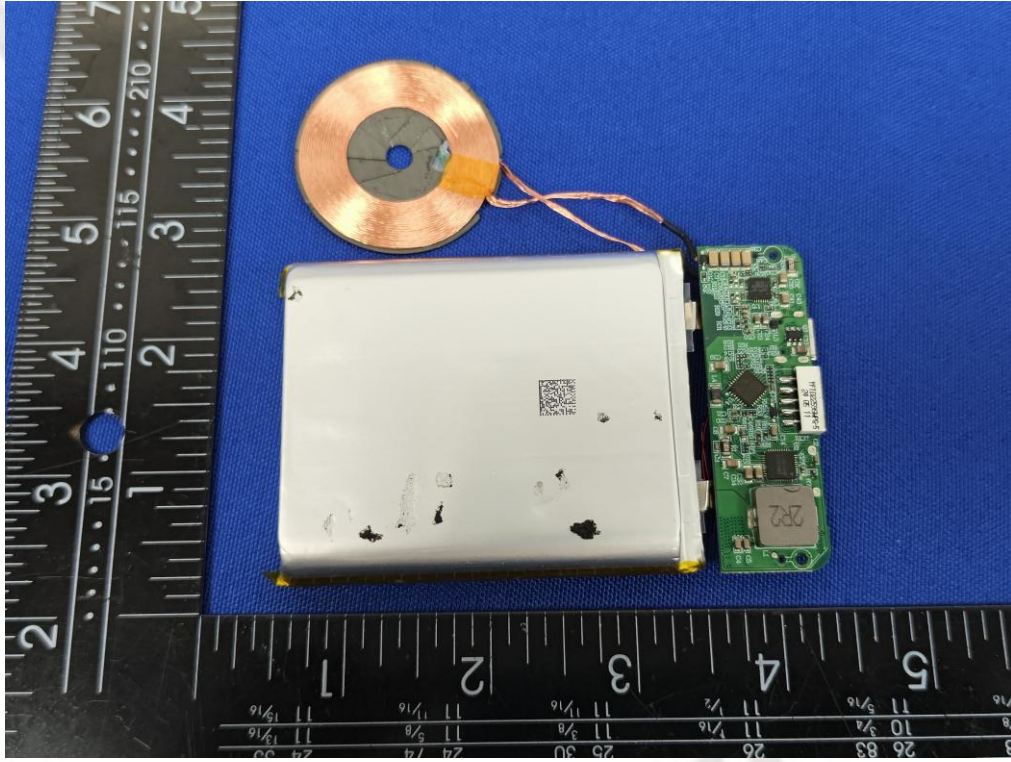




Internal Photos of EUT







.....End of Report.....