



TEST REPORT

47 CFR Part 15, Subpart C

Report Reference No...... CTL2405141011-WF

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Address...... Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,

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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:

Master TRF...... Dated 2011-01

Test item description.....: Solar Power Bank

FCC ID 2AZK8-T11PWX

Trade Mark...... N/A

Model/Type reference..... T11PWX

Antenna type...... loop coil Antenna

Date of receipt of test item..... May 16, 2024

Date of Test Date...... May 17, 2024–May 23, 2024

Data of Issue..... May 24, 2024

Result..... Pass

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TEST REPORT

Toot Poport No.:	CTL2405141011-WF	May 24, 2024
Test Report No. :	C1L2405141011-WF	Date of issue

Equipment under

Test

Solar Power Bank

Type / Model(s) : T11PWX

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 *
· I	

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

** Modified History **

Report No.: CTL2405141011-WF

Revisions	Description	Issued Data	Report No.	Remark
Version 1.0	Initial Test Report Release	May 24, 2024	CTL2405141011-WF	Tracy Qi
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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

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2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	May 16, 2024
Testing commenced on	:	May 17, 2024
Testing concluded on	:	May 23, 2024

2.2. Equipment Under Test

Power supply system utilised

rowei suppiy systeili utiliseu	u	
	Input1/Input2: 5V==3A 9V==2A 12V==1.5	A
	Output 1: 5V==3A 9V==2.22A 12V==1.67	Α
	Output 2: 5V==3A	
	Output 3: 5V==3A 9V==2A 12V==1.5A 5V	′===4.5A
Power supply voltage	. 4.5V===5A	
Fower supply voltage	Output 4: 5V===2.4A	
	Output 5: 5V==3A 9V==2.22A 12V==1.67	Α
Mr. Marie	Battery Capacity: 3.7V 27000mAh/99Wh	
	Solar Panel: 1.9W	
The second second	Wireless Charging: 15W(Max)	

2.3. Short description of the Equipment under Test (EUT)

A Solar Power Bank work frequency range 110KHz-205KHz.

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

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	s have been tested and only the worst Test Mode 1 is reported.

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

This submittal(s) (test report) is intended for **FCC ID: 2AZK8-T11PWX** fileing to comply with FCC Part 15, Subpart C Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.

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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: ____15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

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	4.10dB	(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

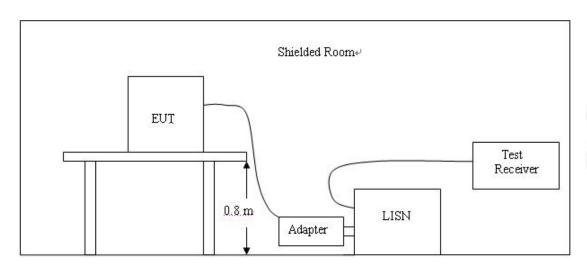
		0.78	100.		
Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ESH2-Z5	860014/010	2024/04/30	2025/04/29
Double cone logarithmic antenna	Schwarzbeck	VULB 9168	824	2023/02/13	2026/02/12
EMI Test Receiver	R&S	ESCI	1166.5950.03	2024/04/30	2025/04/29
Spectrum Analyzer	Keysight	N9020A	MY53420874	2024/05/01	2025/04/30
Active Loop Antenna	Da Ze	ZN30900A	1	2024/04/30	2025/04/29
Spectrum Analyzer	RS	FSP	1164.4391.38	2024/05/03	2025/05/02

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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.

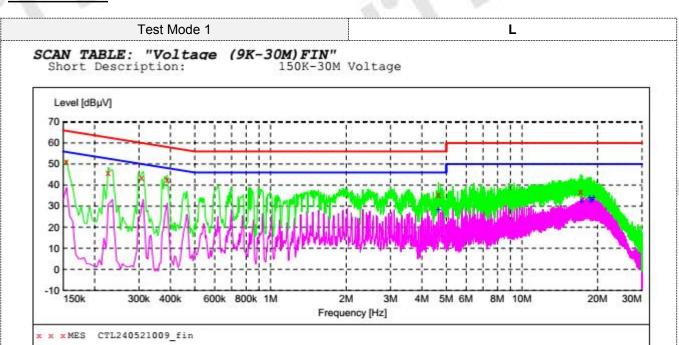
AC Power Conducted Emission Limit

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

Fraguency	Maximum RF Line Voltage (dBμV)					
Frequency (MHz)	CLAS	SS A	CLASS B			
(1411 12)	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

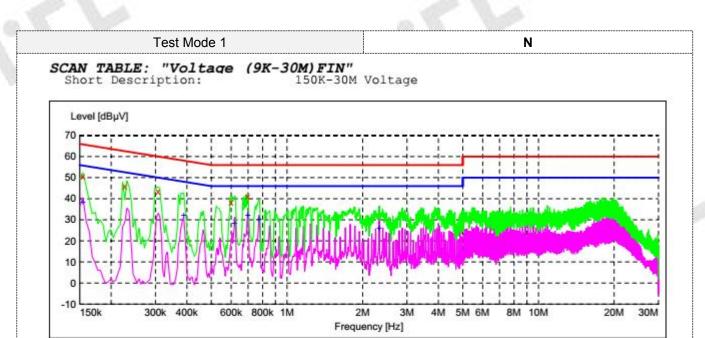


MEASUREMENT RESULT: "CTL240521009 fin"

5/21/2024 10:	02AM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154500	51.00	10.0	66	14.8	QP	Ll	GND
0.226500	46.10	10.0	63	16.5	QP	L1	GND
0.307500	43.50	10.0	60	16.5	QP	L1	GND
0.388500	42.40	10.0	58	15.7	QP	L1	GND
4.654500	35.30	10.1	56	20.7	QP	L1	GND
17.070000	36.90	11.2	60	23.1	OP	T.1	GND

MEASUREMENT RESULT: "CTL240521009 fin2"

5/21/2024	10:03	2AM						
Frequen M	cy Hz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
4.6545	00	28.50	10.1	46	17.5	AV	Ll	GND
17.2950	00	32.00	11.2	50	18.0	AV	L1	GND
18.6270	00	34.20	11.2	50	15.8	AV	L1	GND
18.8475	00	32.30	11.2	50	17.7	AV	L1	GND
19.0725	00	33.20	11.2	50	16.8	AV	L1	GND
19.2930	00	33.80	11.2	50	16.2	AV	L1	GND



MEASUREMENT RESULT: "CTL240521010 fin"

x x x MES CTL240521010 fin

5/21/2024 10	0:05AM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154500	50.80	10.0	66	15.0	QP	N	GND
0.226500	46.10	10.0	63	16.5	QP	N	GND
0.307500	43.50	10.0	60	16.5	QP	N	GND
0.600000	38.30	10.0	56	17.7	QP	N	GND
0.699000	41.10	10.0	56	14.9	QP	N	GND

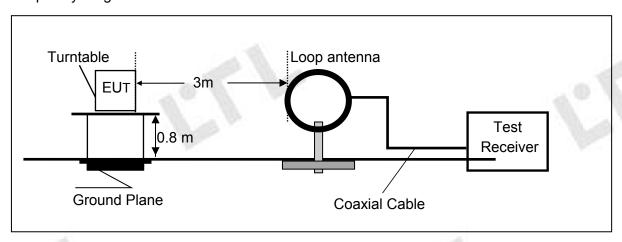
MEASUREMENT RESULT: "CTL240521010 fin2"

/21/2024 10:	05AM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154500	38.40	10.0	56	17.4	AV	N	GND
0.388500	32.10	10.0	48	16.0	AV	N	GND
0.618000	28.40	10.0	46	17.6	AV	N	GND
0.699000	32.00	10.0	46	14.0	AV	N	GND
0.775500	30.10	10.0	46	15.9	AV	N	GND
2.328000	26.10	10.1	46	19.9	AV	N	GND
	Frequency MHz 0.154500 0.388500 0.618000 0.699000 0.775500	Frequency MHz dBμV 0.154500 38.40 0.388500 32.10 0.618000 28.40 0.699000 32.00 0.775500 30.10	Frequency MHz Level Transd dBμV dB 0.154500 38.40 10.0 0.388500 32.10 10.0 0.618000 28.40 10.0 0.699000 32.00 10.0 0.775500 30.10 10.0	Frequency MHz dBμV dB dBμV 0.154500 38.40 10.0 56 0.388500 32.10 10.0 48 0.618000 28.40 10.0 46 0.699000 32.00 10.0 46 0.775500 30.10 10.0 46	Frequency MHz dBμV dB dBμV dB 0.154500 38.40 10.0 56 17.4 0.388500 32.10 10.0 48 16.0 0.618000 28.40 10.0 46 17.6 0.699000 32.00 10.0 46 14.0 0.775500 30.10 10.0 46 15.9	Frequency MHz dBμV dB dBμV dB Detector dBμV dB dBμV dB Detector dBμV dB dBμV dB Detector dB Detector dBμV dB Detector dBμV dB Detector dBμV dB Detector dBμV dBμV dB Detector dBμV dBμV dB Detector dBμV dBμV dBμV dBμV dBμV dBμV dBμV dBμV	Frequency MHz dBμV dB dBμV dB Detector Line dBμV dBμV dB Detector Line dBμV dBμV dB Detector Line dBμV dBμV dBμV dB Detector Line dBμV dBμV dBμV dBμV dBμV dBμV dBμV dBμV

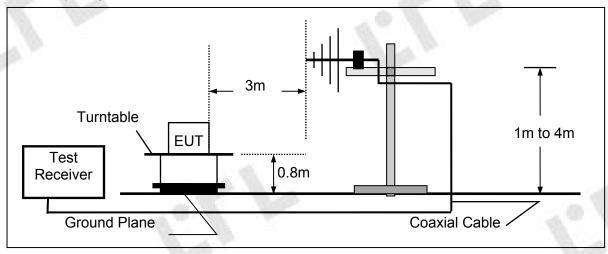
4.2. Radiated Emission

TEST CONFIGURATION

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



Frequency range 30MHz – 1000MHz



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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

H	Frequency	FS	RA	AF	CL	AG	Transd
	(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
	300.00	36.8	58.1	12.2	1.6	31.90	-18.1

Transd=AF + CL - 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 (dBµV/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:

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

Note:

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

30M~1GHz:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (μV/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

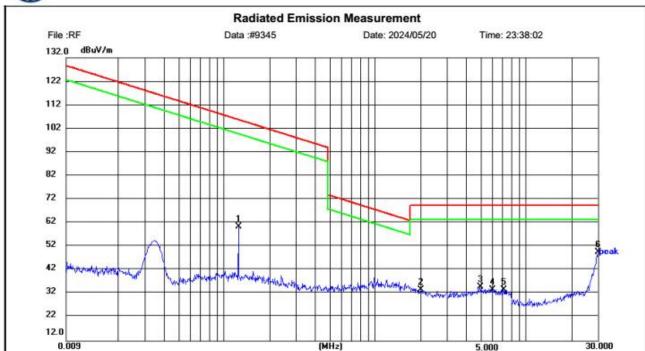
Report No.: CTL2405141011-WF

WORST-CASE RADIATED EMISSION BELOW 30 MHz

Test Mode 1



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Site LAB Chamber 2 Polarization: Temperature: 25(C)

Limit: FCC Part 15 9K-30MHZ-2 Power: Humidity: 50 %

EUT: / Distance: 3m

M/N: T11PWX

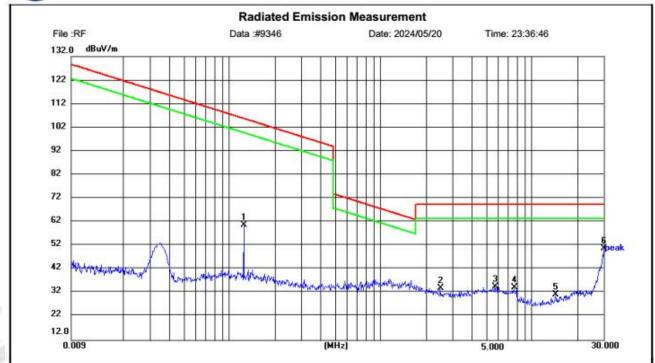
Mode: AC Charging+Wireless output

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	0.1248	40.65	19.70	60.35	105.68	45.33	peak	100	21	Р	
2	2.0137	13.63	20.10	33.73	69.54	35.81	peak	100	198	Р	8
3	4.9550	13.36	21.49	34.85	69.54	34.69	peak	100	326	Р	
4	5.9713	12.98	20.92	33.90	69.54	35.64	peak	100	33	Р	
5	7.0803	13.41	20.20	33.61	69.54	35.93	peak	100	7	Р	
6	30.0000	9.68	39.92	49.60	69.54	19.94	peak	100	338	Р	

Test Mode 4



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Site LAB Chamber 2 Polarization: Temperature: 25(C)

Limit: FCC Part 15 9K-30MHZ-2 Power: Humidity: 50 %

EUT: / Distance: 3m

M/N: T11PWX Mode: Wireless output

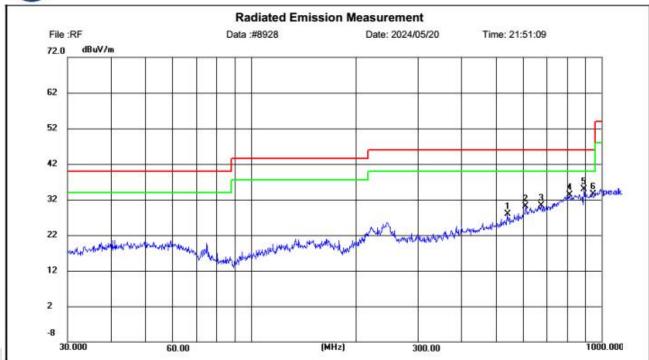
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	0.1248	40.95	19.70	60.65	105.68	45.03	peak	100	11	Р	
2	2.4865	14.30	19.78	34.08	69.54	35.46	peak	100	353	Р	
3	5.6876	13.63	21.10	34.73	69.54	34.81	peak	100	337	Р	
4	7.6164	14.36	19.84	34.20	69.54	35.34	peak	100	60	Р	
5	14.4564	12.13	19.13	31.26	69.54	38.28	peak	100	1	Р	
6	30.0000	10.96	39.92	50.88	69.54	18.66	peak	100	142	Р	

Radiated Emission Test Data 30-1000MHz:

Test Mode 1 Horizontal



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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: T11PWX

Mode: AC Charging+Wireless output

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	538.2964	7.81	20.04	27.85	46.00	18.15	peak	100	213	Р	
2	609.6544	8.14	21.99	30.13	46.00	15.87	peak	100	283	Р	
3	674.0252	7.63	22.61	30.24	46.00	15.76	peak	100	244	Р	
4	810.6205	7.45	25.87	33.32	46.00	12.68	peak	100	209	Р	
5	892.6820	8.45	26.36	34.81	46.00	11.19	peak	100	202	Р	
6	942.5435	6.36	27.10	33.46	46.00	12.54	peak	100	321	Р	

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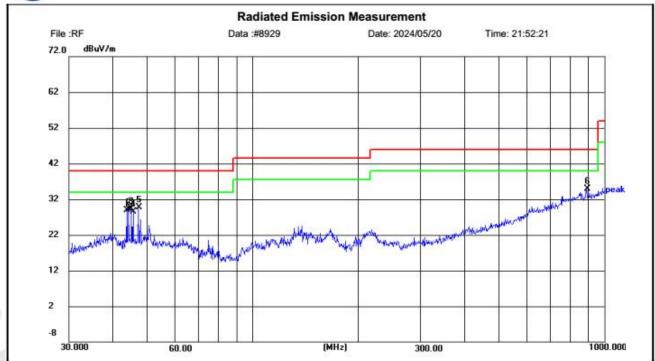
Test Mode 1

Vertical



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Site LAB Chamber 2

Polarization: Vertical Temperature: 25(C)

Humidity:

Limit: FCC Part15 RE-Class C_30-1000MHz

Power:

EUT: /

Distance: 3m

M/N: T11PWX

Mode: AC Charging+Wireless output

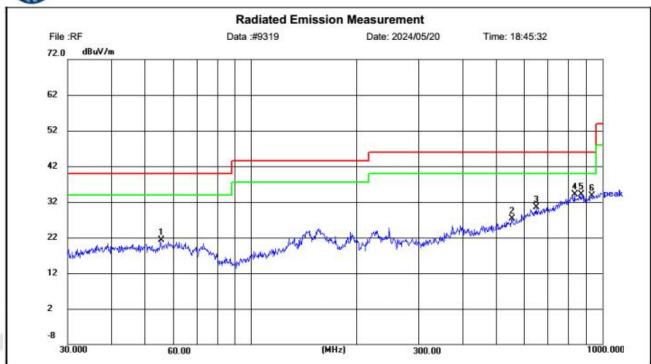
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	43.8310	14.39	14.42	28.81	40.00	11.19	peak	100	289	Р	
2	44.3141	14.59	14.46	29.05	40.00	10.95	peak	100	289	Р	
3	45.2761	14.85	14.43	29.28	40.00	10.72	peak	100	289	Р	
4	45.7750	14.08	14.39	28.47	40.00	11.53	peak	100	289	Р	
5	47.4294	15.32	14.38	29.70	40.00	10.30	peak	100	178	Р	
6	893.4650	8.45	26.38	34.83	46.00	11.17	peak	100	309	Р	

4.3.

Test Mode 4 Horizontal



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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: T11PWX

Mode: Wireless output

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	55.3176	6.98	14.30	21.28	40.00	18.72	peak	100	353	Р	
2	554.0963	6.87	20.36	27.23	46.00	18.77	peak	100	3	Р	
3	647.9533	7.92	22.57	30.49	46.00	15.51	peak	100	93	Р	
4	834.7794	8.27	25.90	34.17	46.00	11.83	peak	100	186	Р	
5	869.8924	8.49	25.69	34.18	46.00	11.82	peak	100	221	Р	
6	935.1363	6.57	27.08	33.65	46.00	12.35	peak	100	10	Р	

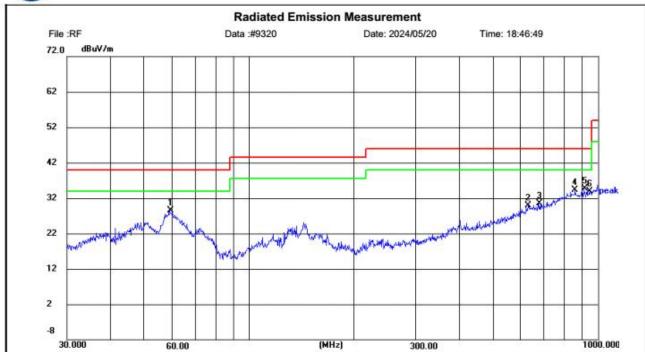
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Test Mode 4

Vertical



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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: T11PWX Mode: Wireless output

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	59.3104	14.55	13.96	28.51	40.00	11.49	peak	100	312	Р	
2	629.7532	7.37	22.52	29.89	46.00	16.11	peak	100	11	Р	
3	678.4714	7.77	22.69	30.46	46.00	15.54	peak	100	264	Р	
4	862.3000	7.93	26.40	34.33	46.00	11.67	peak	100	236	Р	
5	913.2623	7.94	26.71	34.65	46.00	11.35	peak	100	146	Р	Ï
6	947.0990	6.88	27.10	33.98	46.00	12.02	peak	100	326	Р	

4.4. 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.

<u>LIMIT</u>

N/A

TEST RESULTS

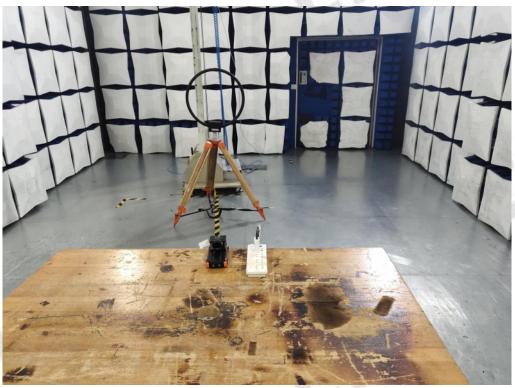


Frequency (kHz)	20dB Bandwidth (kHz)	Limit(kHz)	Verdict
124.76	2.895	8 1	PASS

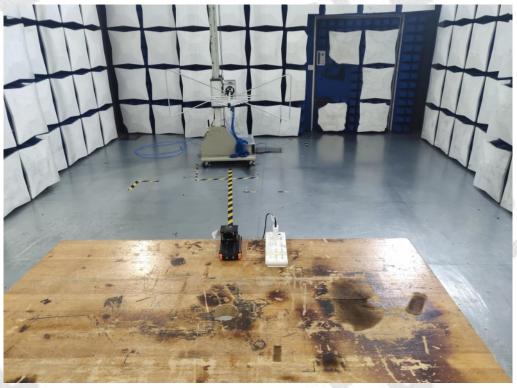
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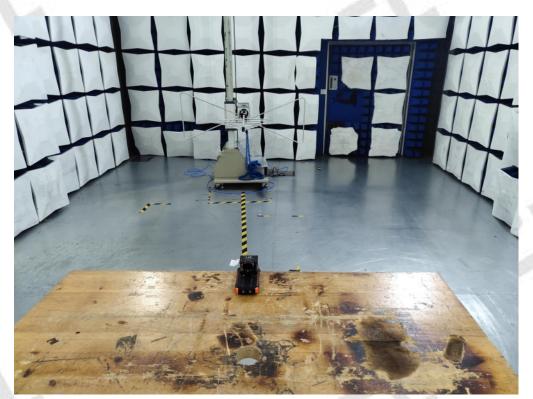
5. Test Setup Photos of the EUT





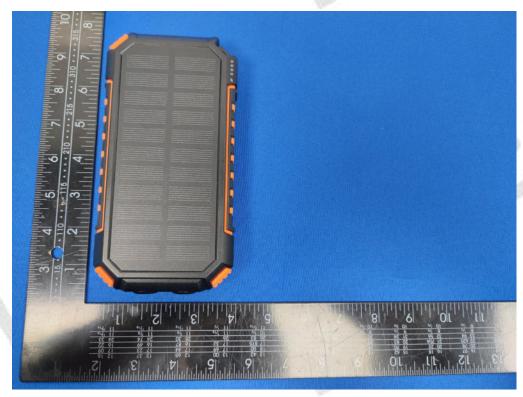






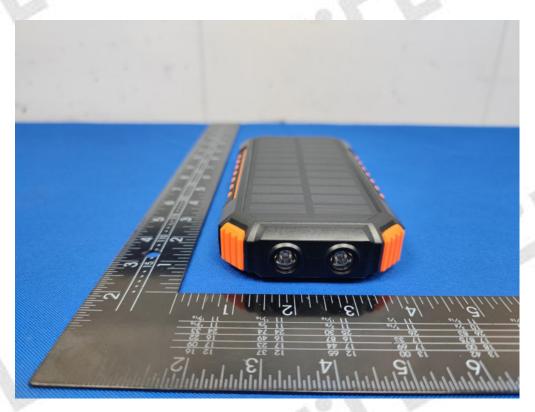
6. External and Internal Photos of the EUT

External Photos of EUT

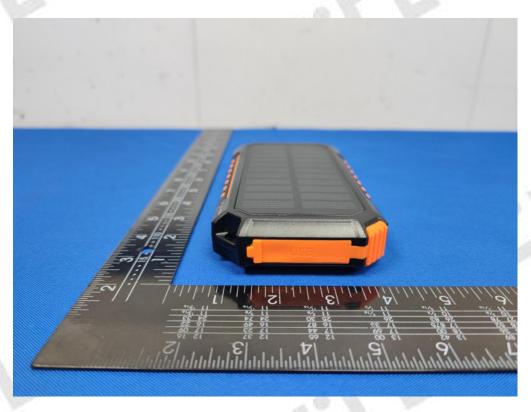














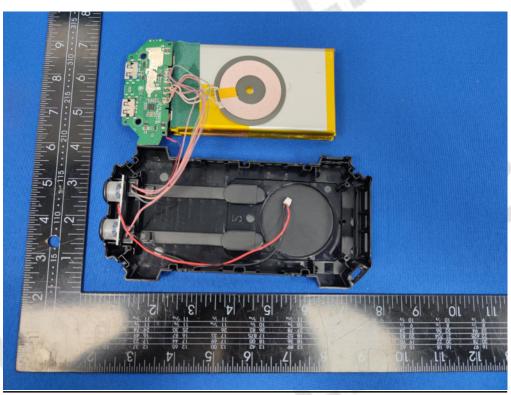


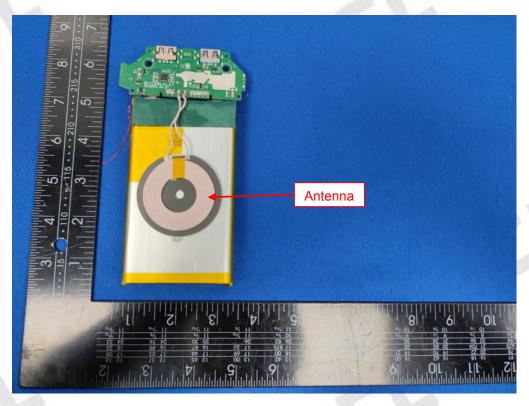


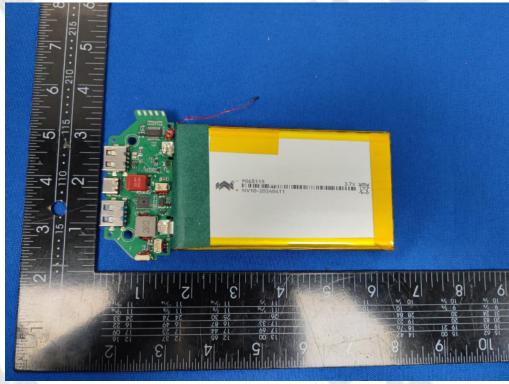


Internal Photos of EUT









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