

TEST REPORT

Report No..... : KS2305S2492E

FCC ID..... : 2BA7B-BOOST-2200

Applicant..... : Hangzhou Whizpo System Technology Co., Ltd.

Address..... : 2nd Floor, Building 8, No. 733 Jianshe 3rd Road, Xiaoshan District, Hangzhou City, Zhejiang Province, China

Manufacturer..... : Hangzhou Whizpo System Technology Co., Ltd.

Address..... : 2nd Floor, Building 8, No. 733 Jianshe 3rd Road, Xiaoshan District, Hangzhou City, Zhejiang Province, China

Product Name..... : Portable Power Station

Trademark..... : 

Model/Type reference..... : Boost 2200W

Standard..... : 47 CFR Part 15.209

Date of Receipt..... : May 12, 2023

Date of Test Date..... : May 12, 2023 to May 23, 2023

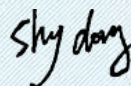
Date of issue..... : May 23, 2023

Test result..... : Pass

Prepared by:
(Printed name + Signature) Pai Zheng



Approved by:
(Printed name + Signature) Sky Dong



Testing Laboratory Name...: KSIGN(Guangdong) Testing Co., Ltd.

Address..... : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

47 CFR Part 15.209: Radiated emission limits; general requirements

1.2. Report Version

Revised No.	Date of issue	Description
01	May 23, 2023	Original

1.3. Test Description

Test Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.209	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.209	47 CFR 15.207(a)	Pass
Emissions in restricted frequency bands (below 30MHz)	47 CFR Part 15.209	47 CFR 15.209	Pass
Emissions in restricted frequency bands (30MHz - 1GHz)	47 CFR Part 15.209	47 CFR 15.209	Pass

1.4. Test Facility

KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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

CNAS-Lab Code: L13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing 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

ISED#: 25693 CAB identifier.: CN0096

KSIGN(Guangdong) Testing Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

FCC-Registration No.: 294912 Designation Number: CN1328

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

1.5. Measurement Uncertainty

Test Items	Measurement Uncertainty
Conducted Emission (150k-30MHz)	$\pm 3.34\text{dB}$
RSE	$\pm 5.7\text{dB}$

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

2. GENERAL INFORMATION

2.1. General Description Of EUT

Test Sample Number:	1-1(Normal Sample), 1-2(Engineering Sample)
Product Name:	Portable Power Station
Trademark:	
Model / Type reference:	Boost 2200W
Model Difference:	N/A
Power Supply:	Input: AC 100-120V~, 60Hz, 1800W Max Battery capacity: DC 43.2V, 51Ah, 2203.2Wh Wireless Charge Output: 15W Max
Operation Frequency:	115KHz - 205KHz
Modulation Type:	ASK
Antenna Type:	Loop coil antenna
Antenna Gain:	0 dBi
Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.	

2.2. Accessory Equipment Information

Title	Manufacturer	Model No.	Serial No.
Wireless charging load	YBZ	N/A	N/A

2.3. Description of Test Modes

No.	Title	Description of Mode
Test Mode1	Charging+Wireless charging(15W)	N/A
Test Mode2	Charging+Wireless charging(5W)	N/A
Note: All test modes were pre-tested, The Mode 1 was the worst case and only the data of the worst case record in this report.		

2.4. Measurement Instruments List

Conducted Emission at AC power line				
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
LISN	R&S	ENV432	1326.6105.02	2024-02-17
EMI Test Receiver	R&S	ESR	102524	2024-02-17
Manual RF Switch	JS TOYO	/	MSW-01/002	2024-02-17
ISN CAT6	Schwarzbeck	CAT5 8158	227	2024-02-17
Color Signal Generator	Philips	PM5418	672926	2024-02-17
Power Absorbing Clamp	R&S	MDS-21	100925	2024-02-19

Emissions in restricted frequency bands (below 30MHz)				
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Color Signal Generator	Philips	PM5418	672926	2024-02-17
Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	1230	2025-02-18
Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	2024-02-17
Broadcast Television Signal Generator	R&S	SFE100	141038	2024-02-17
Analog Signal Generator	Agilent	8648A	3847M00445	2024-02-17
EMI Test Receiver	R&S	ESR	102525	2024-02-17
Loop Antenna	Beijin ZHINAN	ZN30900C	18050	2024-02-19
Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	2026-02-19
Pre-Amplifier	EMCI	EMC051835SE	980662	2024-02-17
Spectrum Analyzer	Keysight	N9020A	MY46471971	2024-02-17

Emissions in restricted frequency bands (30MHz - 1GHz)				
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Color Signal Generator	Philips	PM5418	672926	2024-02-17
Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	1230	2025-02-18
Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	2024-02-17
Broadcast Television Signal Generator	R&S	SFE100	141038	2024-02-17
Analog Signal Generator	Agilent	8648A	3847M00445	2024-02-17
EMI Test Receiver	R&S	ESR	102525	2024-02-17
Loop Antenna	Beijin ZHINAN	ZN30900C	18050	2024-02-19
Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	2026-02-19
Pre-Amplifier	EMCI	EMC051835SE	980662	2024-02-17
Spectrum Analyzer	Keysight	N9020A	MY46471971	2024-02-17

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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3. Evaluation Results (Evaluation)

3.1. Antenna requirement

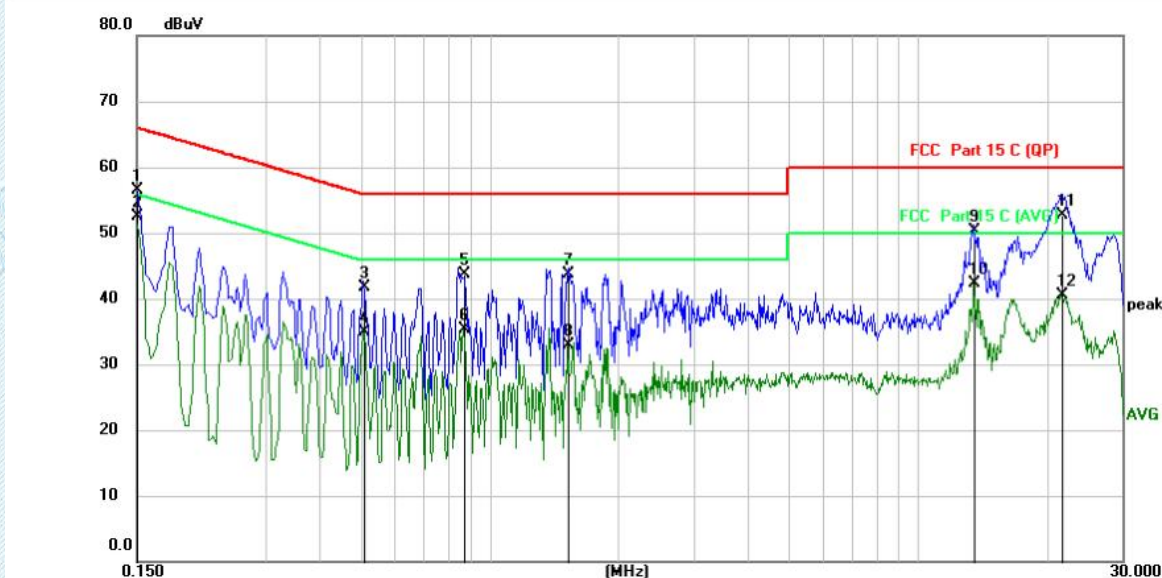
Test Requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Antenna Information	The antenna used in this product is a Coil Antenna.

4.1.3. Test Data:

Note:

- 1). QP Value (dBμV)= QP Reading (dBμV)+ Factor (dB)
- 2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)
- 3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)
- 4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

Test Mode1 / Line: Line

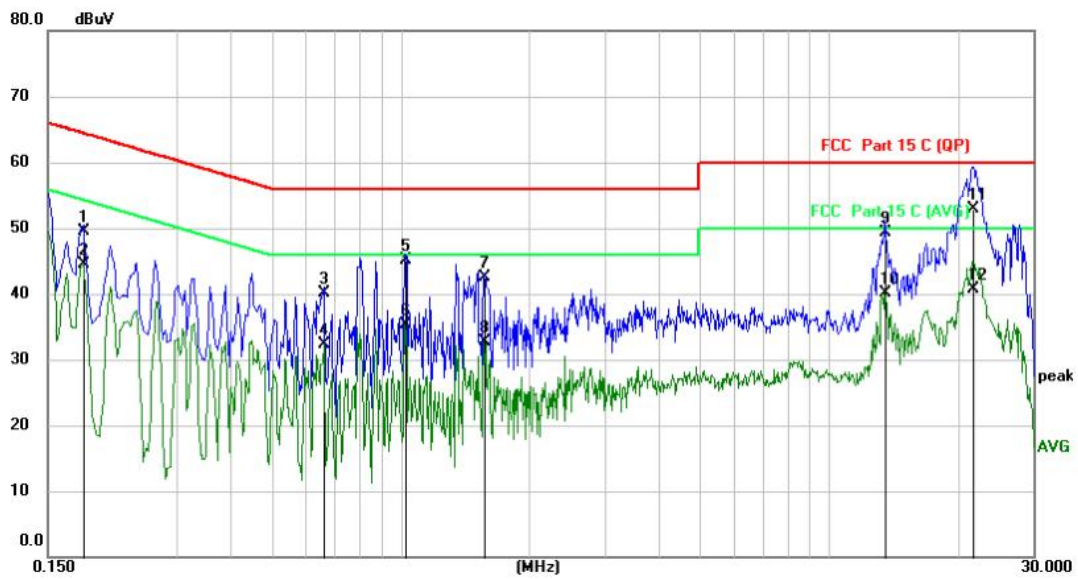


No. Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV	Limit dBμV	Over dB	Detector	Comment
1	0.1500	45.70	10.71	56.41	66.00	-9.59	QP	
2 *	0.1500	41.82	10.71	52.53	56.00	-3.47	AVG	
3	0.5100	31.27	10.39	41.66	56.00	-14.34	QP	
4	0.5100	24.46	10.39	34.85	46.00	-11.15	AVG	
5	0.8700	33.16	10.47	43.63	56.00	-12.37	QP	
6	0.8700	24.87	10.47	35.34	46.00	-10.66	AVG	
7	1.5260	33.24	10.43	43.67	56.00	-12.33	QP	
8	1.5260	22.39	10.43	32.82	46.00	-13.18	AVG	
9	13.5219	39.60	10.73	50.33	60.00	-9.67	QP	
10	13.5219	31.52	10.73	42.25	50.00	-7.75	AVG	
11	21.6858	42.13	10.64	52.77	60.00	-7.23	QP	
12	21.6858	29.89	10.64	40.53	50.00	-9.47	AVG	

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Test Mode1 / Line: Neutral


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1819	38.69	10.74	49.43	64.40	-14.97	QP	
2	0.1819	33.70	10.74	44.44	54.40	-9.96	AVG	
3	0.6620	29.75	10.44	40.19	56.00	-15.81	QP	
4	0.6620	21.85	10.44	32.29	46.00	-13.71	AVG	
5	1.0260	34.51	10.50	45.01	56.00	-10.99	QP	
6	1.0260	24.73	10.50	35.23	46.00	-10.77	AVG	
7	1.5660	32.06	10.51	42.57	56.00	-13.43	QP	
8	1.5660	22.22	10.51	32.73	46.00	-13.27	AVG	
9	13.5259	38.60	10.72	49.32	60.00	-10.68	QP	
10	13.5259	29.36	10.72	40.08	50.00	-9.92	AVG	
11 *	21.6855	42.06	10.89	52.95	60.00	-7.05	QP	
12	21.6855	29.79	10.89	40.68	50.00	-9.32	AVG	

TRF RF_R1

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4.2. Emissions in restricted frequency bands (below 30MHz)

Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

4.2.1. E.U.T. Operation:

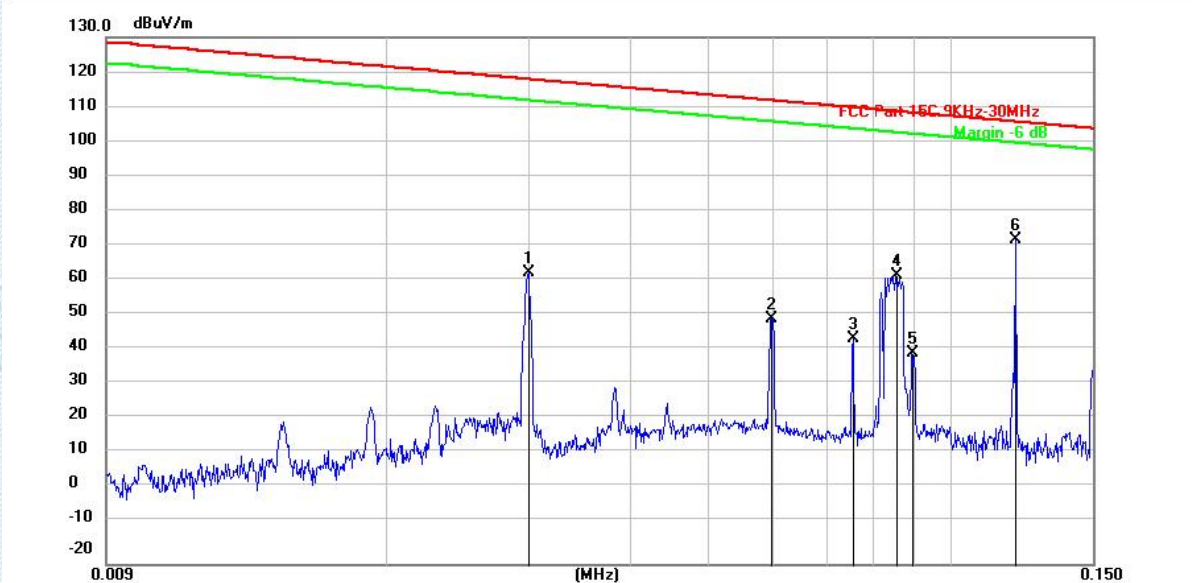
Operating Environment:	
Temperature:	23.2 °C
Humidity:	45.8 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1, Test Mode2

4.2.2. Test Data:

Note:

Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

Test Mode1 / Face / 9KHz-150KHz

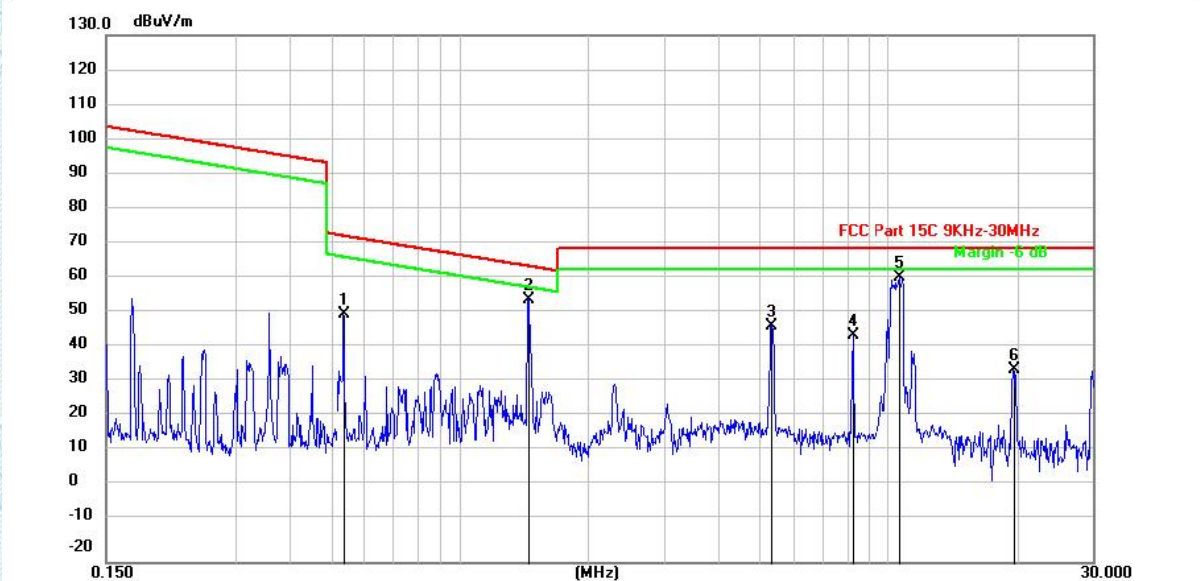


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		0.0300	72.09	-9.00	63.09	118.06	-54.97	peak
2		0.0599	59.03	-9.10	49.93	112.06	-62.13	peak
3		0.0756	53.74	-9.26	44.48	110.03	-65.55	peak
4		0.0857	71.48	-9.00	62.48	108.94	-46.46	peak
5		0.0898	49.01	-8.90	40.11	108.54	-68.43	peak
6	*	0.1203	81.68	-9.32	72.36	106.00	-33.64	peak

TRF RF_R1

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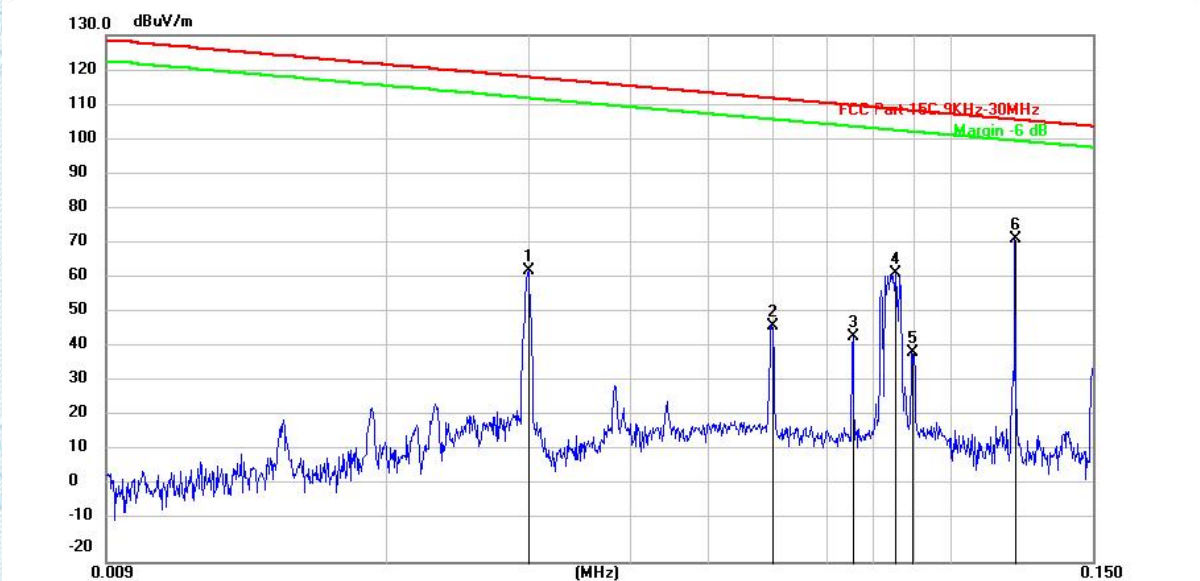
Test Mode1 / Face / 150KHz-30MHz


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		0.5398	60.07	-9.21	50.86	72.96	-22.10	peak
2		1.4485	64.11	-9.16	54.95	64.39	-9.44	peak
3		5.3275	56.70	-9.46	47.24	69.54	-22.30	peak
4		8.2524	53.81	-9.24	44.57	69.54	-24.97	peak
5	*	10.6254	70.55	-9.36	61.19	69.54	-8.35	peak
6		19.5935	44.71	-9.68	35.03	69.54	-34.51	peak

TRF RF_R1

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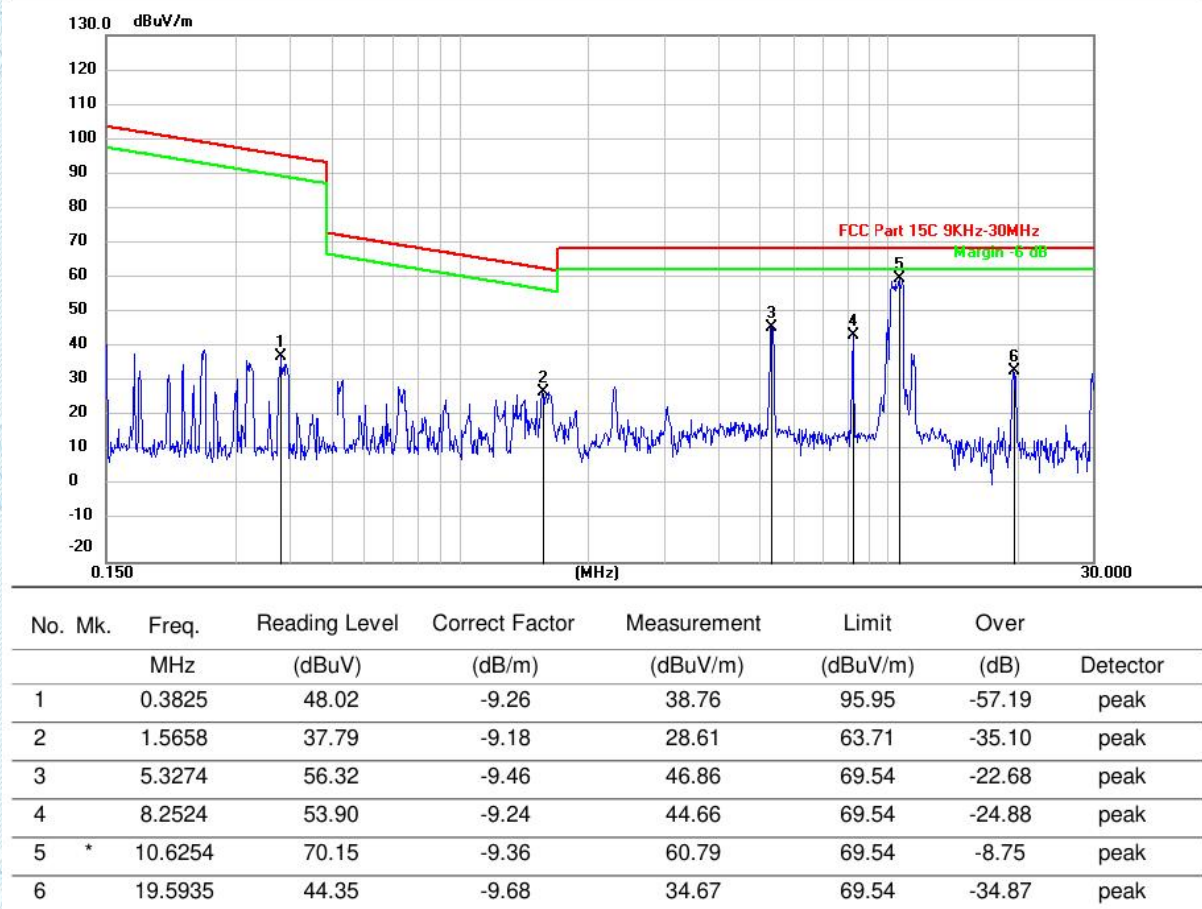
Test Mode1 / Side / 9KHz-150KHz


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		0.0300	72.09	-9.00	63.09	118.06	-54.97	peak
2		0.0600	56.39	-9.10	47.29	112.04	-64.75	peak
3		0.0755	53.70	-9.26	44.44	110.05	-65.61	peak
4		0.0856	71.49	-9.01	62.48	108.95	-46.47	peak
5		0.0897	48.66	-8.90	39.76	108.55	-68.79	peak
6	*	0.1203	81.26	-9.32	71.94	106.00	-34.06	peak

TRF RF_R1

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Test Mode1 / Side / 150KHz-30MHz


TRF RF_R1

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4.3. Emissions in restricted frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

4.3.1. E.U.T. Operation:

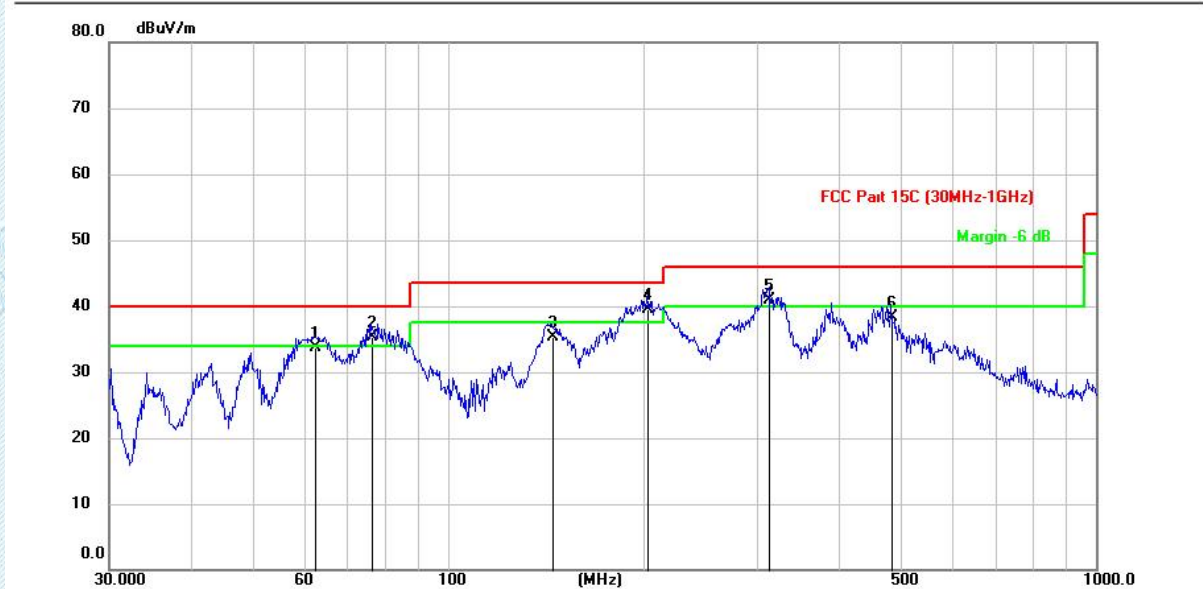
Operating Environment:	
Temperature:	23.2 °C
Humidity:	45.8 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1, Test Mode2

4.3.2. Test Data:

Note:

- 1). Level (dBμV/m) = Reading (dBμV) + Factor (dB/m)
- 2). Factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)
- 3). Margin (dB) = Limit (dBμV/m) - Level (dBμV/m)

Test Mode1 / Polarization: Horizontal

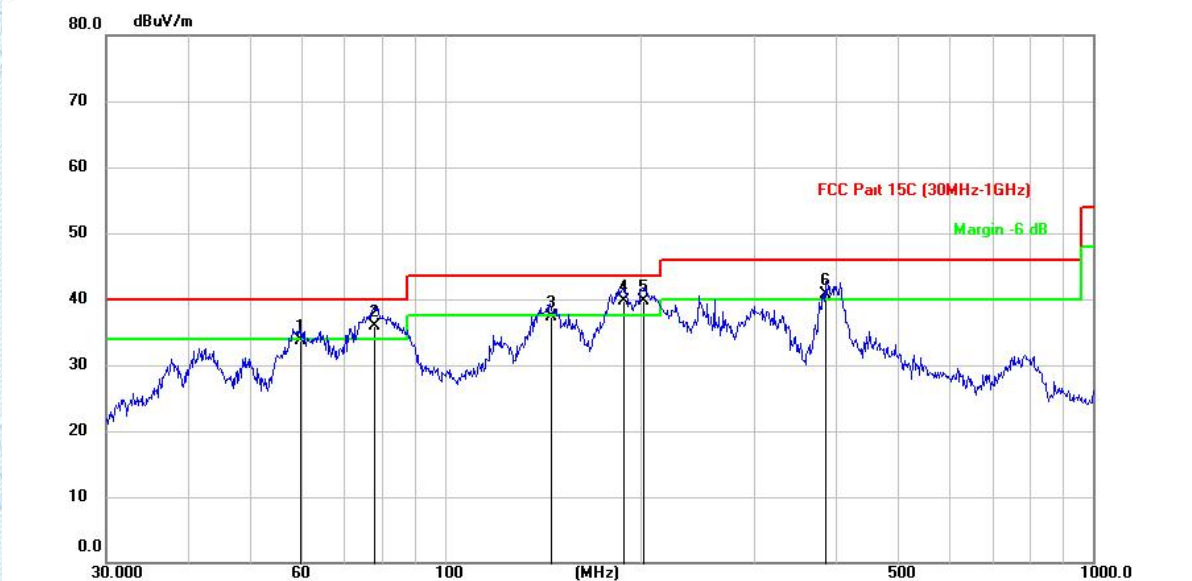


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		62.0384	51.67	-18.00	33.67	40.00	-6.33	QP
2	!	76.4852	55.84	-20.58	35.26	40.00	-4.74	QP
3		145.2993	56.69	-21.35	35.34	43.50	-8.16	QP
4	*	203.4514	57.35	-17.85	39.50	43.50	-4.00	QP
5	!	312.8369	55.10	-14.11	40.99	46.00	-5.01	QP
6		484.2488	48.40	-10.06	38.34	46.00	-7.66	QP

TRF RF_R1

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Test Mode1 / Polarization: Vertical


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1		59.5657	51.16	-17.48	33.68	40.00	-6.32	QP
2	!	78.0567	56.93	-20.98	35.95	40.00	-4.05	QP
3		145.4525	58.62	-21.35	37.27	43.50	-6.23	QP
4	*	188.7431	58.32	-18.52	39.80	43.50	-3.70	QP
5	!	202.0296	57.68	-17.92	39.76	43.50	-3.74	QP
6	!	386.2273	52.13	-11.37	40.76	46.00	-5.24	QP

TRF RF_R1

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5. EUT TEST PHOTOS

Conducted Emission at AC power line



Emissions in restricted frequency bands (below 30MHz)



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Emissions in restricted frequency bands (30MHz - 1GHz)

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6. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

External



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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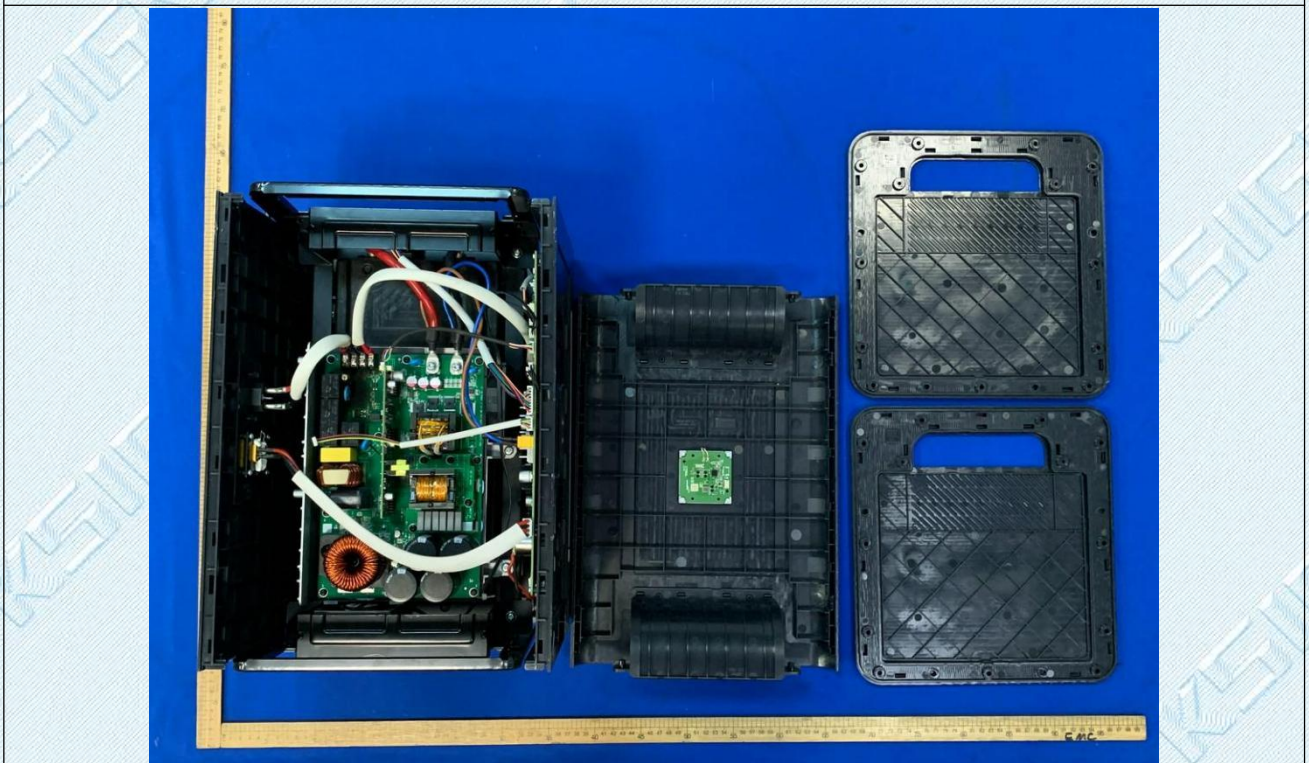
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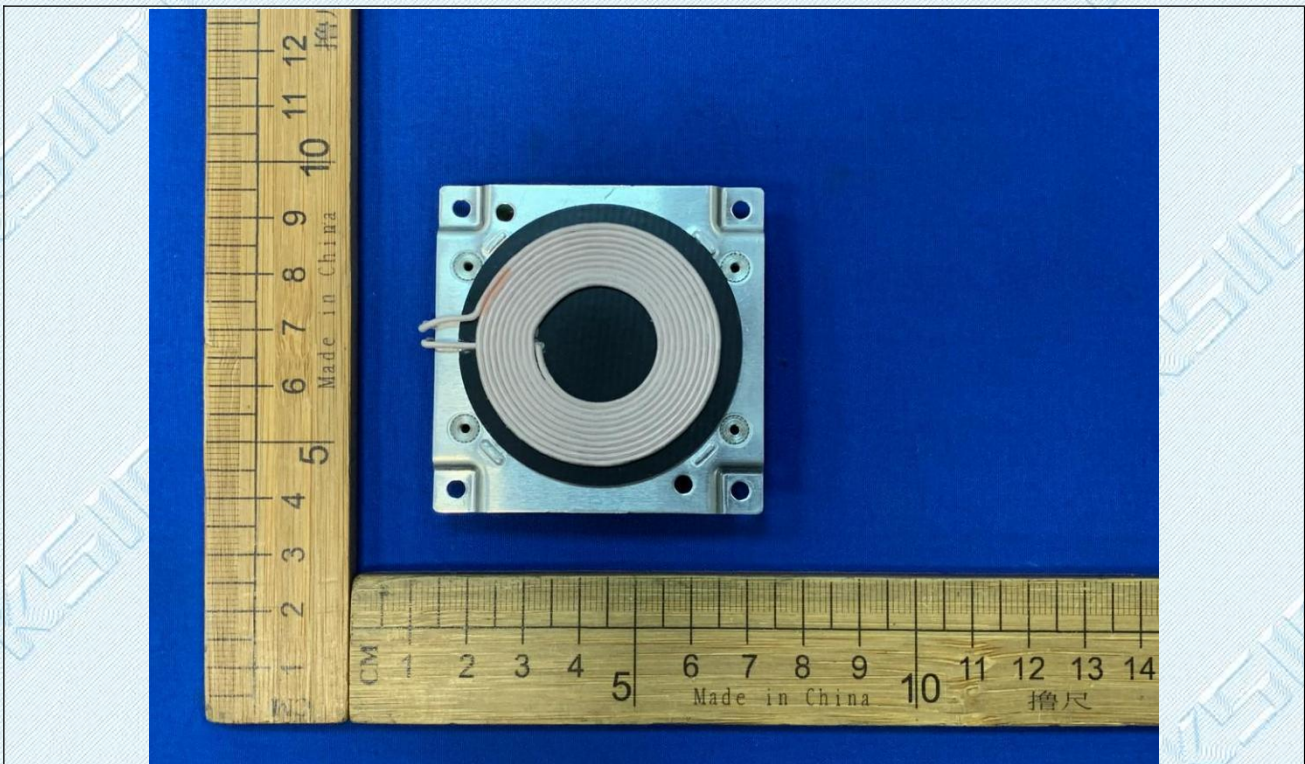
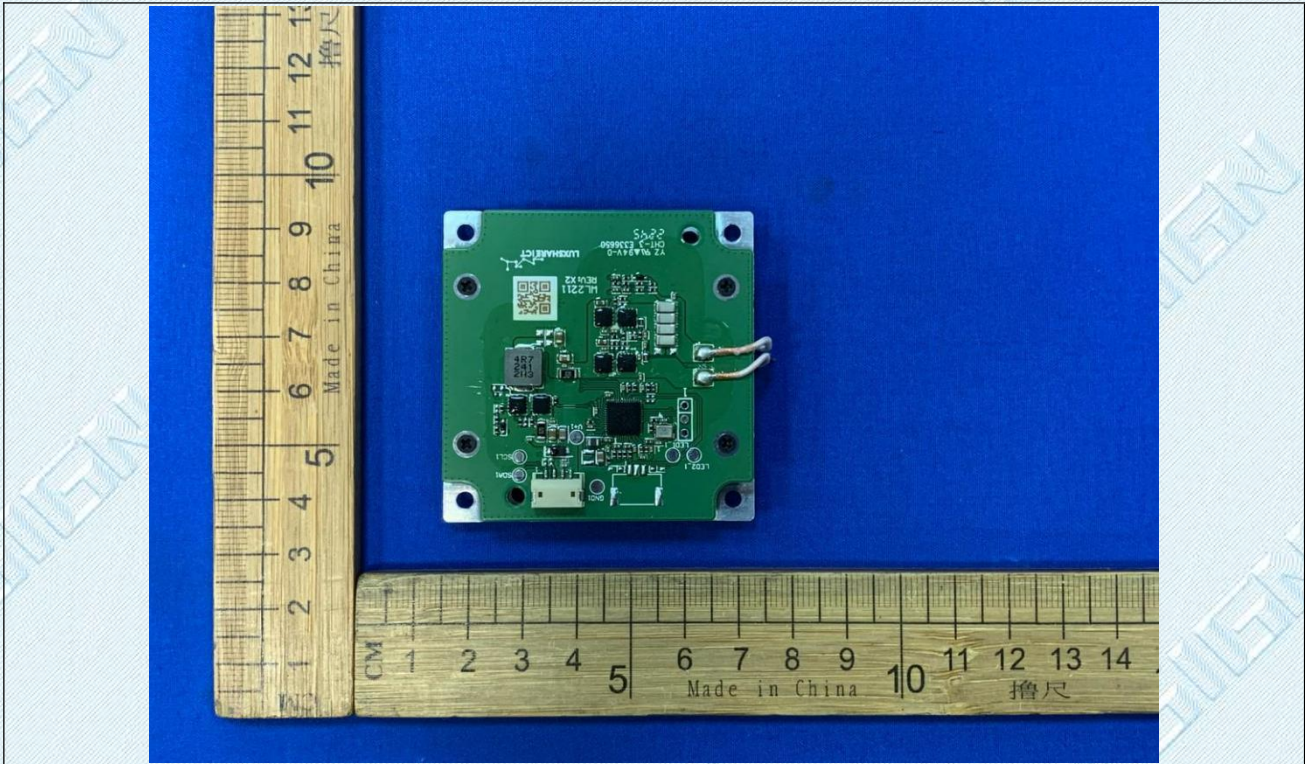
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Internal

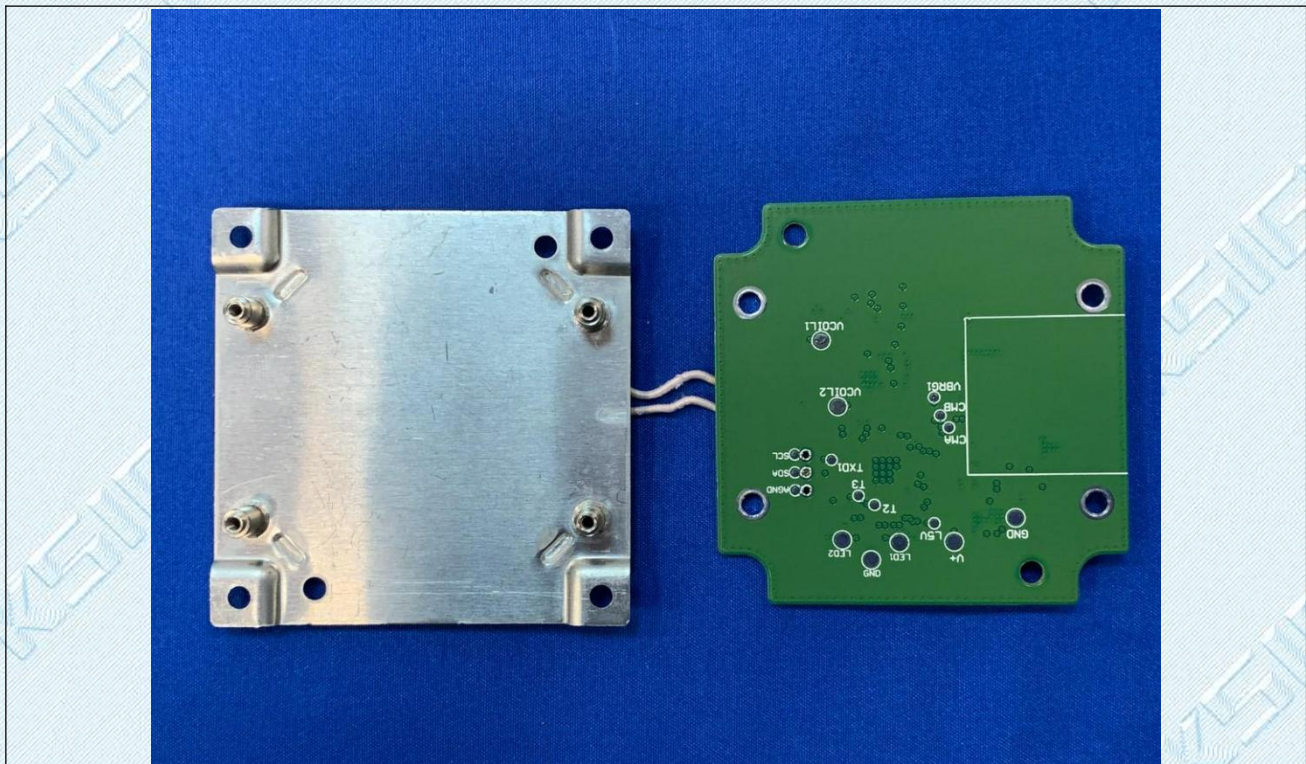
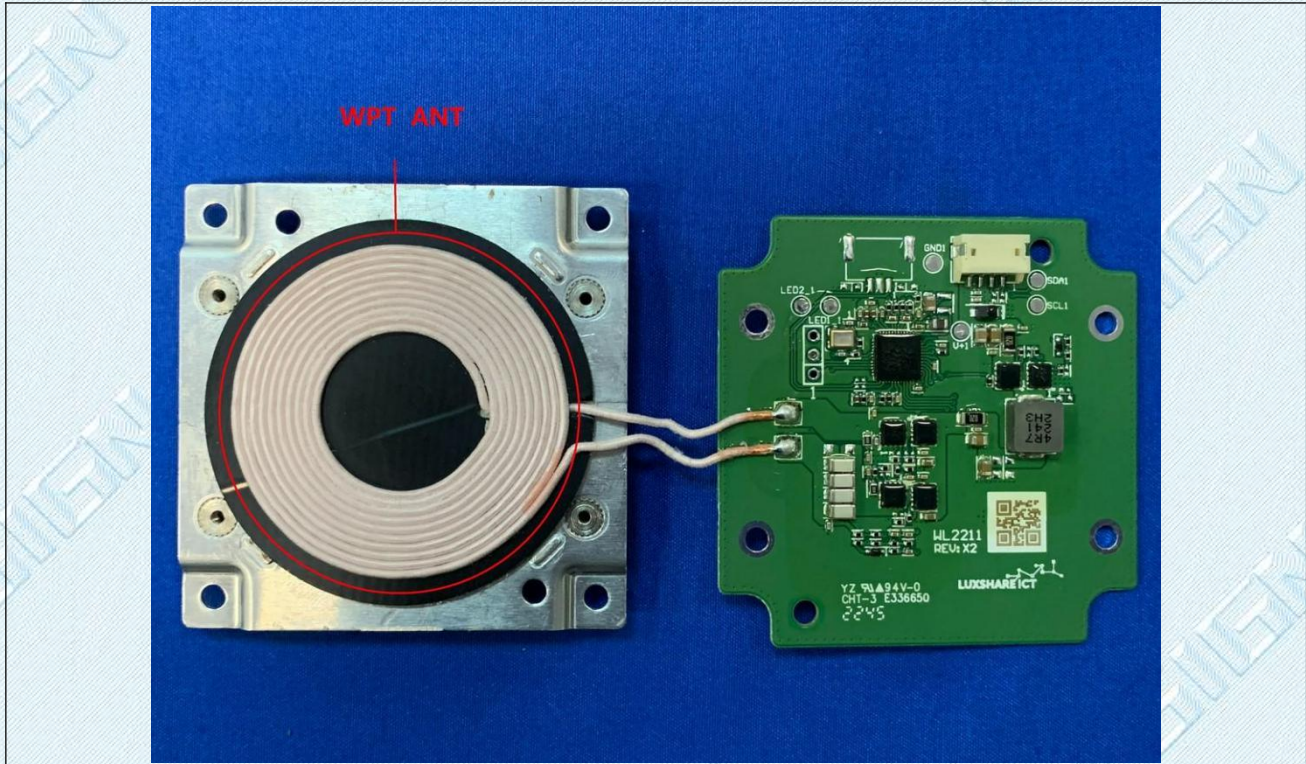


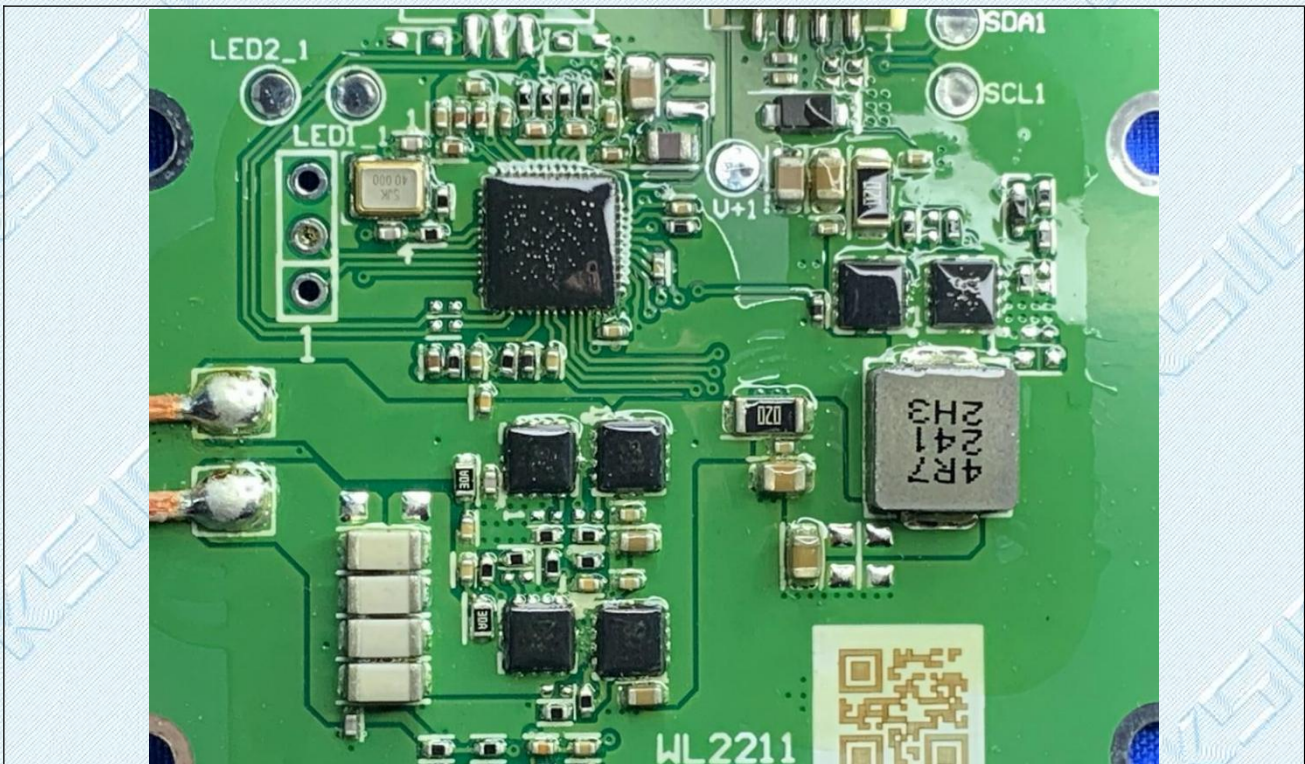
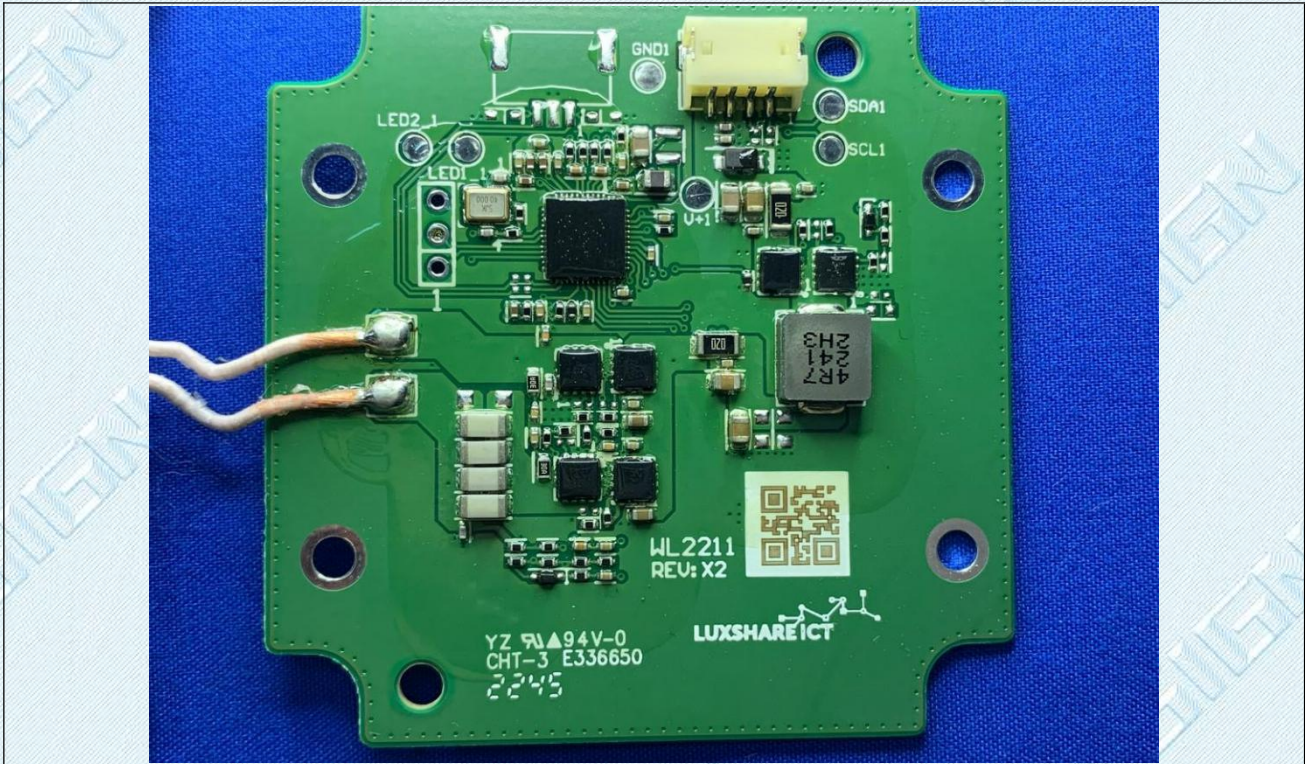


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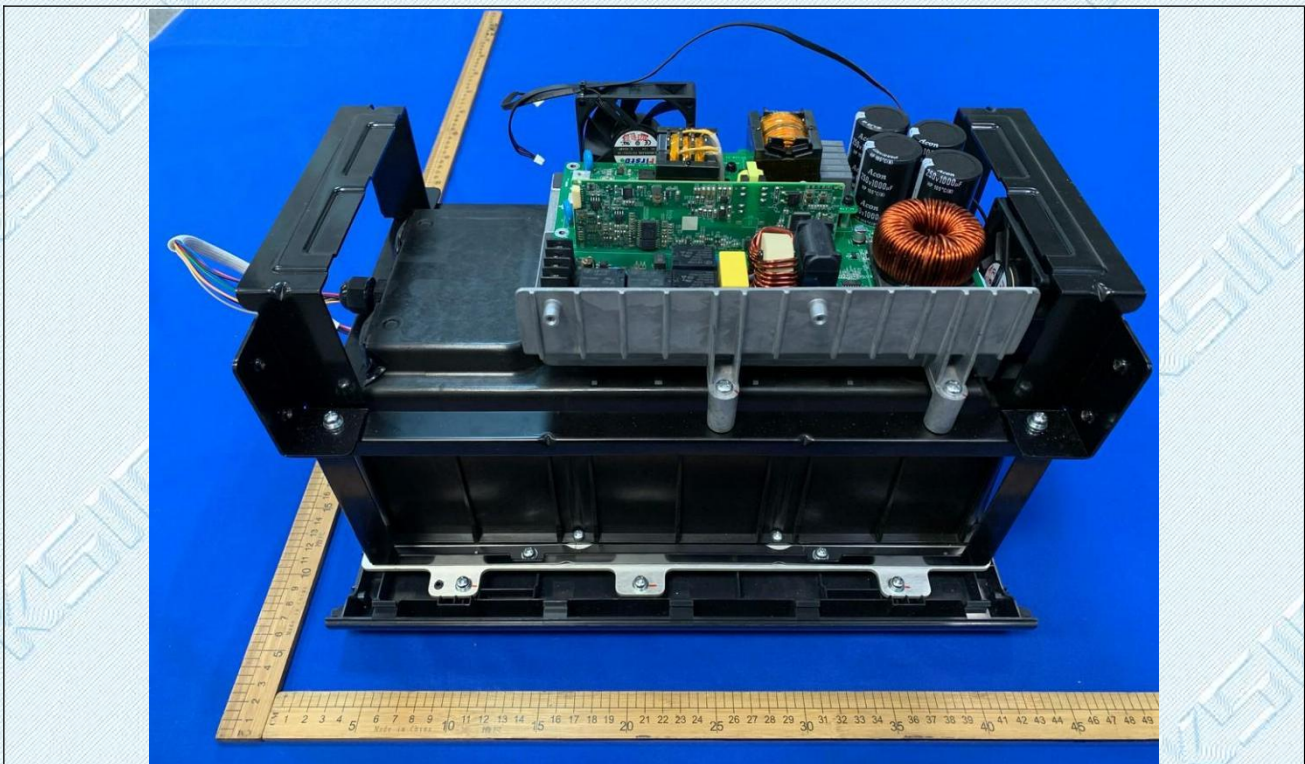
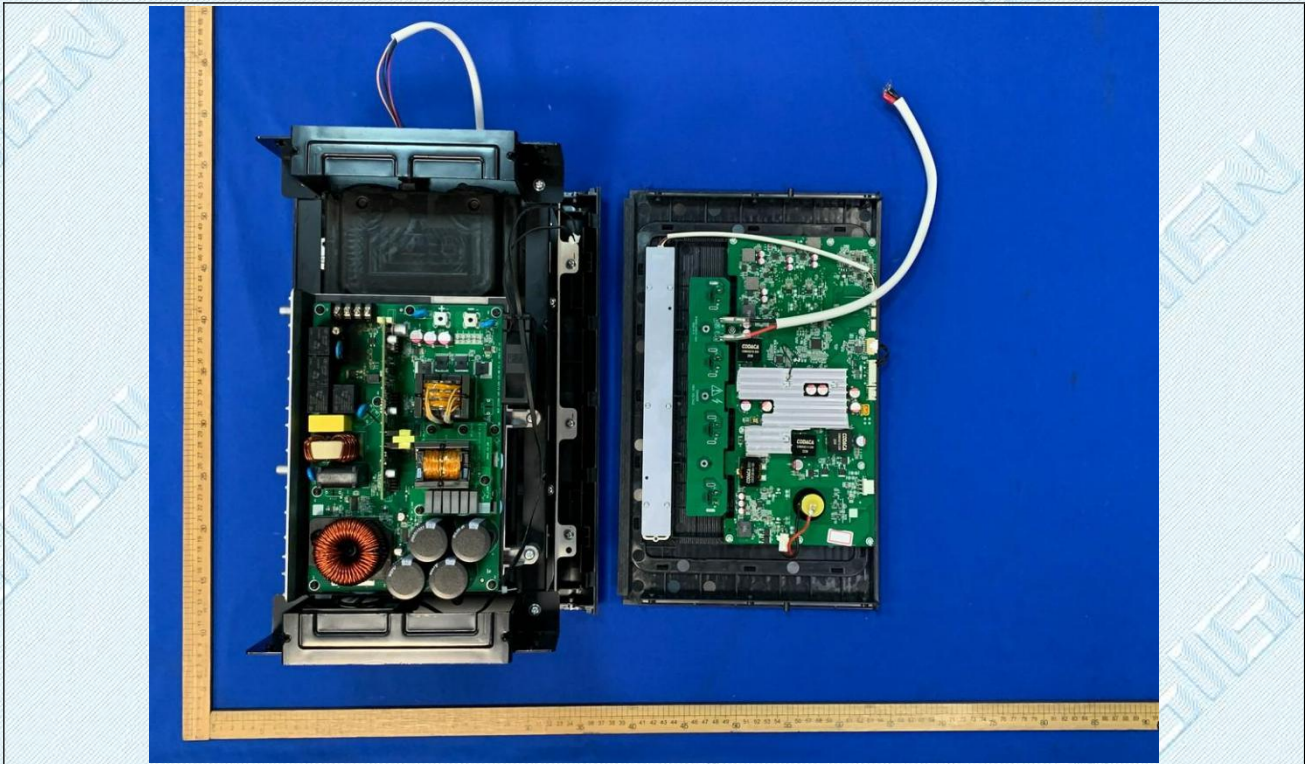




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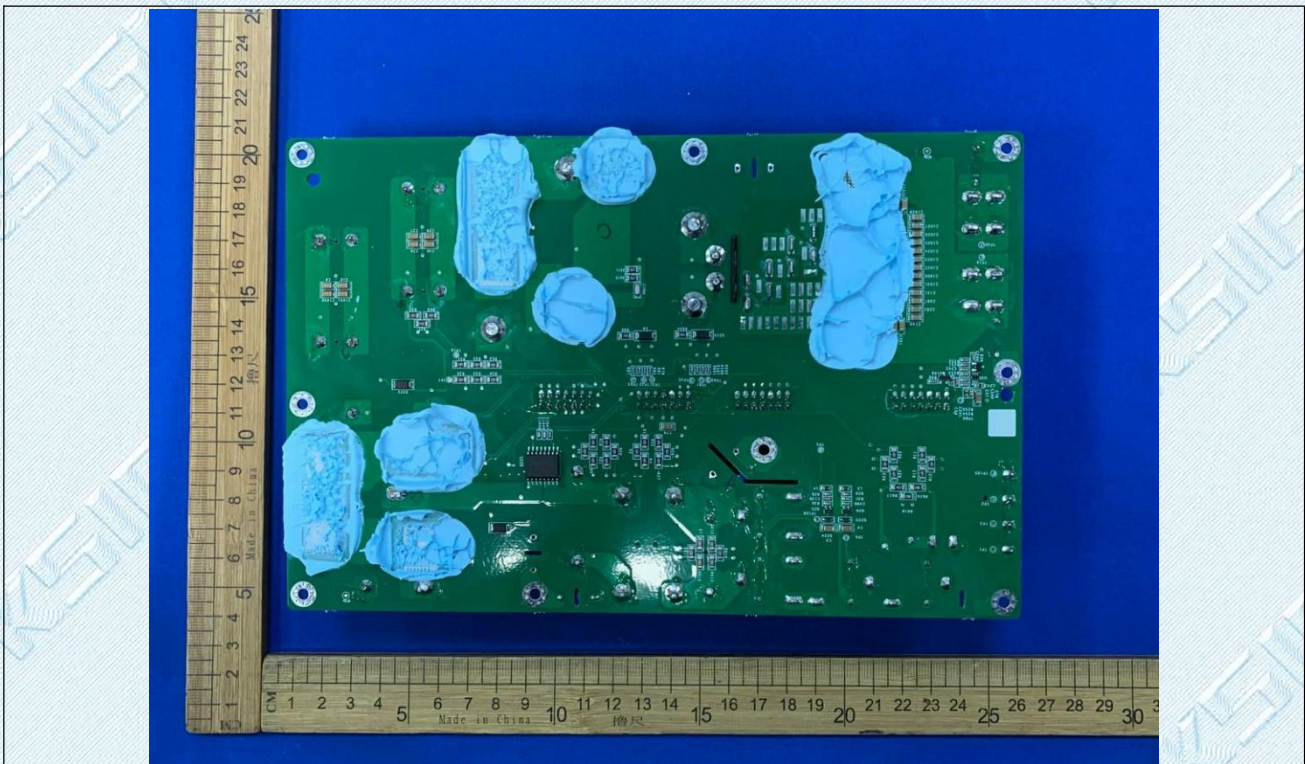
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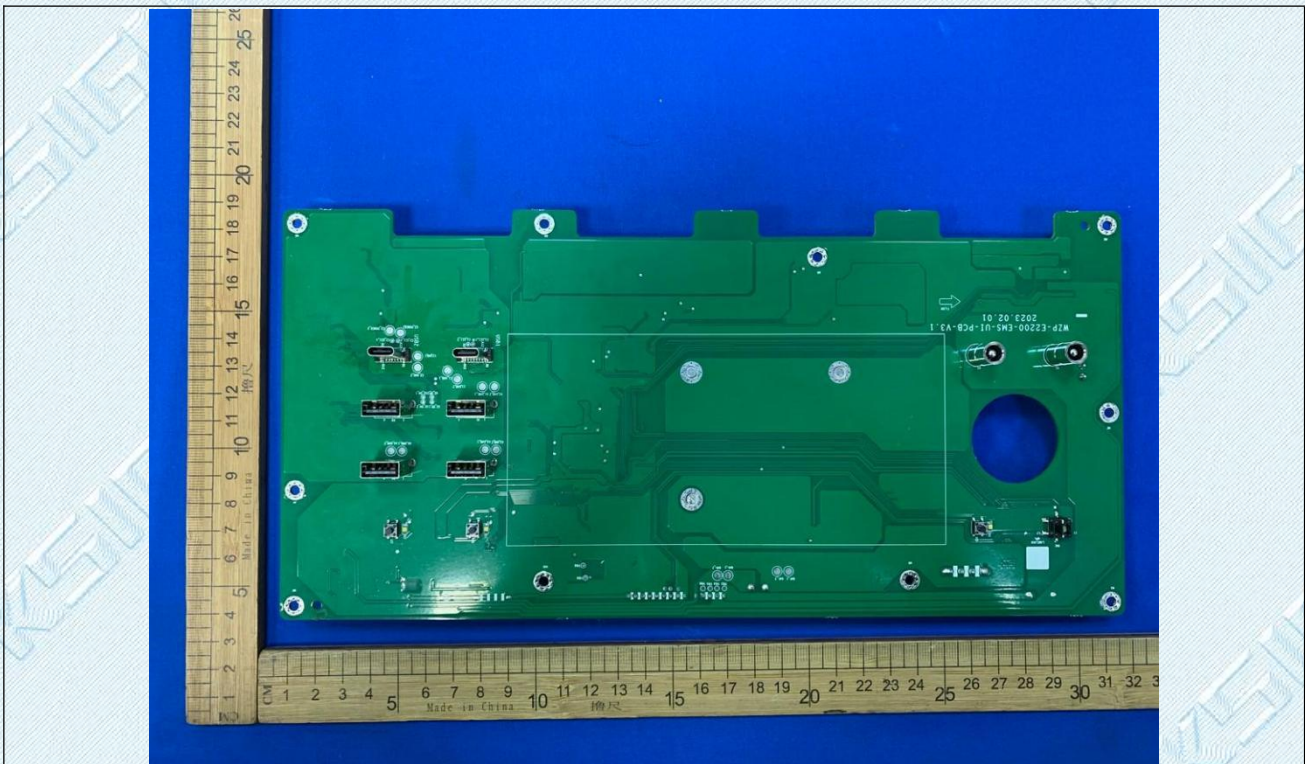
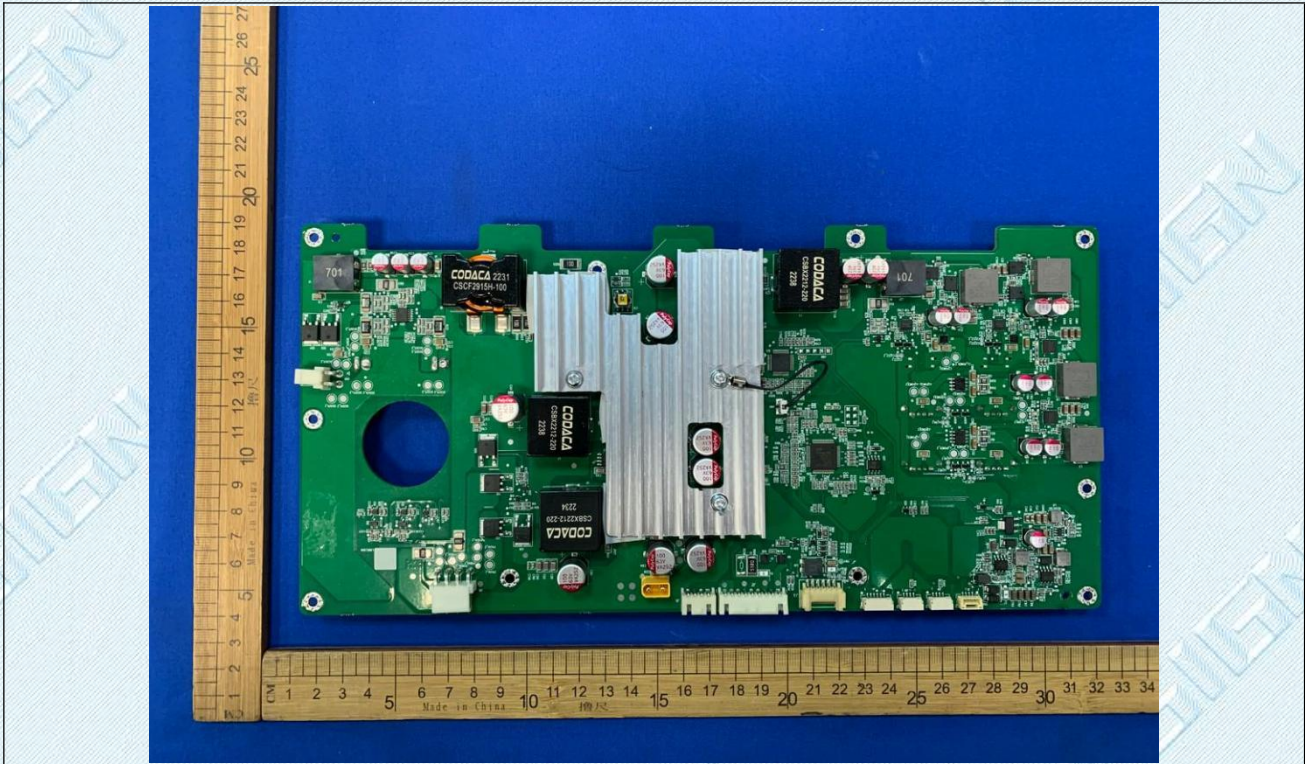
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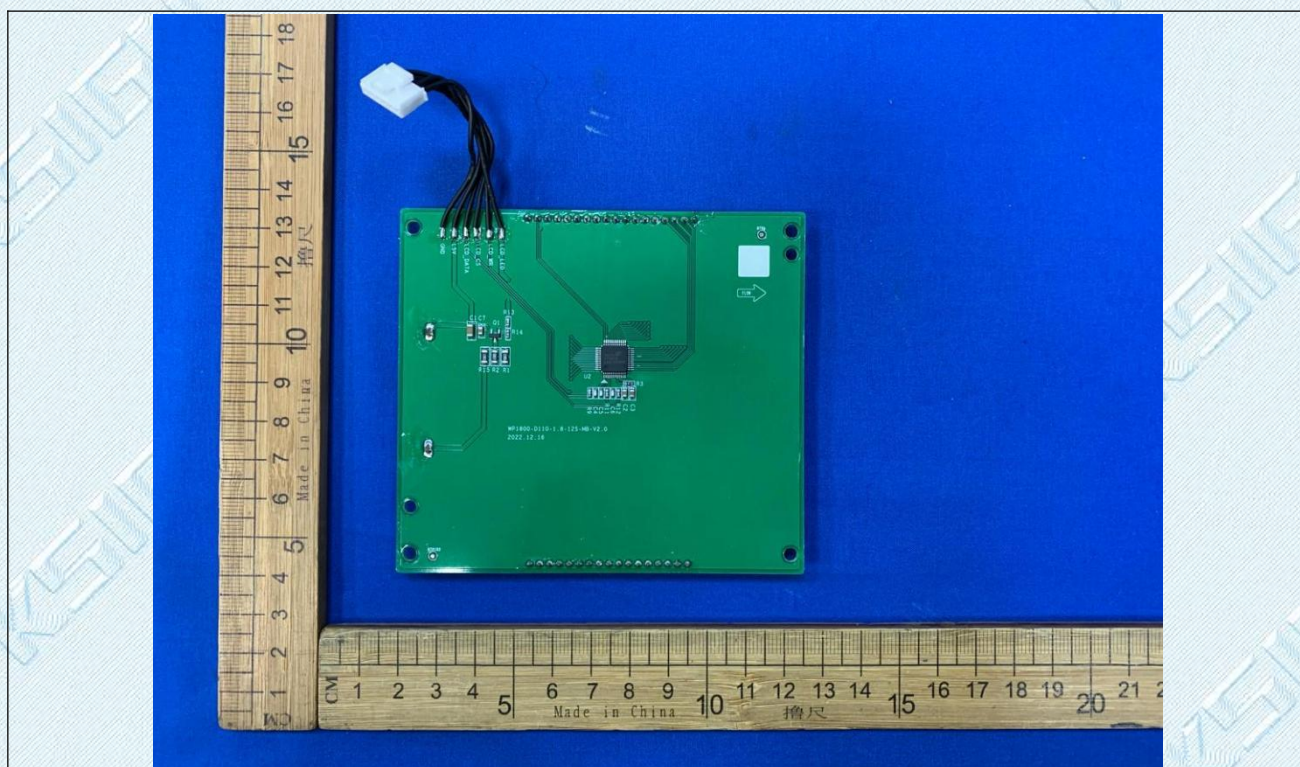
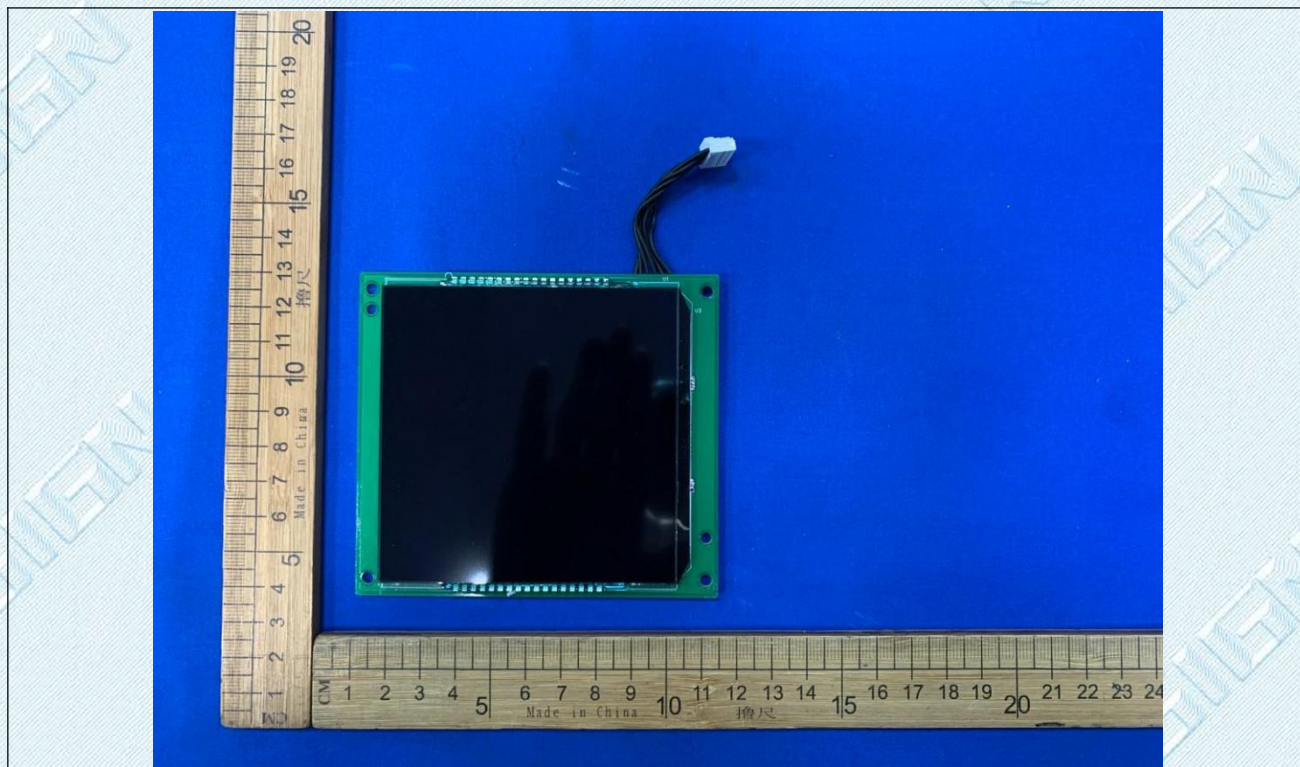
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--THE END--

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