



## Shenzhen Huaxia Testing Technology Co., Ltd

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# Test Report

**Report No. :** CQASZ20210500031EX-03  
**Applicant:** SHENZHEN POWEROAK NEWENER CO., LTD  
**Address of Applicant:** Room 701-3, Building B, CADRE Building, Tongsha Road, Nanshan District, Shenzhen City, Guangdong Province, P.R.China  
**Manufacturer:** SHENZHEN POWEROAK NEWENER CO., LTD  
**Address of Manufacturer:** Room 701-3, Building B, CADRE Building, Tongsha Road, Nanshan District, Shenzhen City, Guangdong Province, P.R.China  
**Equipment Under Test (EUT):**  
**Product:** Portable Power Station  
**Test Model No.:** EP500  
**All Model No.:** EP500  
**Brand Name:** /  
**FCC ID:** 2AYT3-EP500  
**Standards:** 47 CFR Part 15, Subpart C  
**Date of Test:** May 25, 2021 – Jun. 10, 2021  
**Date of Issue:** Jun. 10, 2021  
**Test Result :** **PASS\***

**Tested By:** Lewis Zhou  
( Lewis Zhou )

**Reviewed By:** Timo Lei  
( Timo Lei )

**Approved By:** Sheek Luo  
( Sheek Luo )



\* In the configuration tested, the EUT complied with the standards specified above.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210500031EX-03	Rev.01	Initial report	Jun. 10, 2021

## 2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.209	ANSI C63.10 2013	PASS

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## 4 General Information

### 4.1 Client Information

Applicant:	SHENZHEN POWEROAK NEWENER CO., LTD
Address of Applicant:	Room 701-3, Building B, CADRE Building, Tongsha Road, Nanshan District, Shenzhen City, Guangdong Province, P.R.China
Manufacturer:	SHENZHEN POWEROAK NEWENER CO., LTD
Address of Manufacturer:	Room 701-3, Building B, CADRE Building, Tongsha Road, Nanshan District, Shenzhen City, Guangdong Province, P.R.China

### 4.2 General Description of EUT

Product Name:	Portable Power Station
All Model No.:	EP500
Test Model No.:	EP500
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	/
Operation Frequency:	125kHz -152kHz
Modulation Type:	MSK
Antenna Type:	Loop coil antenna
Antenna Gain:	0 dBi
Power Supply:	DC 51.2V from battery 5120Wh 100Ah Input : 100-120VAC 50/60Hz 15A max DC55-145VDC 20AMAX Output: AC*4: 100-120VAC 50/60Hz, 2000W Total Aviation Sockets*1: 12VDC, 30A USB-A*1: 5VDC, 2A, USB-A*1: 5VDC ,1A, USB-A*2: 5VDC, 2A, 9VDC,2A ,12VDC 1.5A USB-C*1: 5V-15VDC 3A 20VDC 5A Cigarette lighter*1: 12VDC, 10A DC 5521*2: 12VDC, 10A Wireless Charging*2: 5/7.5/10/15W Total

*Note: For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.*

### 4.3 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1010mbar
Test Mode:	
Mode 1	Charging (DC port)
Mode 2	Charging (adapter)
Mode 3	AC*4(2000W max)
Mode 4	DC 12V *2
Mode 5	USB*5
Mode 6	Wireless charging*2(5W*2)
Mode 7	Wireless charging*2(7.5W*2)
Mode 8	Wireless charging*2(10W*2)
Mode 9	Wireless charging*2(15W*2)
Mode 10	Mode 3+ Mode 4+ Mode 5+ Mode 9
Note: The mode f was the worst case and only the data of the worst case record in this report	

### 4.4 Operation channel list

Channel	Frequency(KHz)
Low	125
Middle	139
High	152

#### Test channel

Middle	139
--------	-----

### 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	emark	FCC certification
Wireless electronic Load	-	-	Provide by laboratory	-

#### 4.6 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 Huaxia 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 CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	$3 \times 10^{-8}$	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8°C	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 4.7 Test Location

**Shenzhen Huaxia Testing Technology Co., Ltd,**

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

#### 4.8 Test Facility

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

• **IC Registration No.: 22984-1**

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

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

• **CNAS (No. CNAS L5785)**

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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 No.:522263

#### 4.9 Deviation from Standards

None.

#### 4.10 Other Information Requested by the Customer

None.



#### 4.11 Equipment List

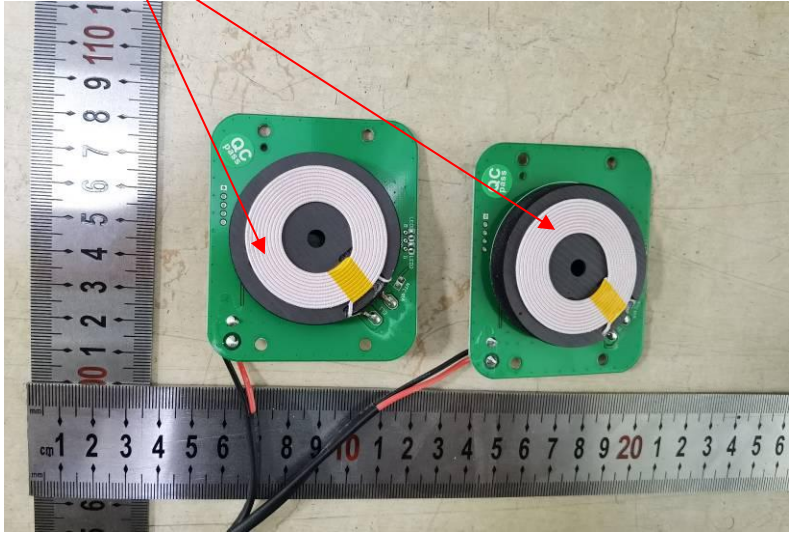
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/09/22	2021/09/21
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/24	2021/10/23
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2020/09/22	2021/09/21
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2020/10/29	2021/10/28
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2020/10/24	2021/10/23
Bilog Antenna	R&S	HL562	CQA-011	2020/09/22	2021/09/21
Horn Antenna	R&S	HF906	CQA-012	2020/09/22	2021/09/21
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2020/09/22	2021/09/21
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2020/09/22	2021/09/21
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2020/09/22	2021/09/21
Antenna Connector	CQA	RFC-01	CQA-080	2020/09/22	2021/09/21
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/09/22	2021/09/21
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/09/22	2021/09/21
EMI Test Receiver	R&S	ESPI3	CQA-013	2020/09/22	2021/09/21
LISN	R&S	ENV216	CQA-003	2020/11/01	2021/10/30
Coaxial cable	CQA	N/A	CQA-C009	2020/09/22	2021/09/21

Note:

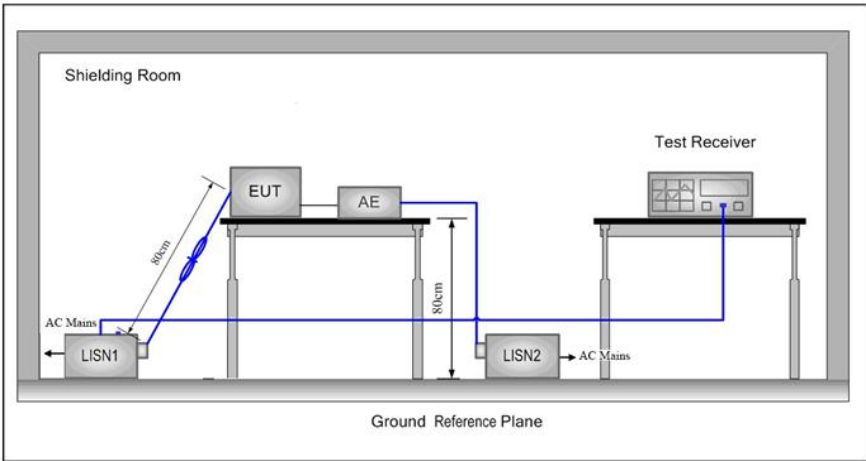
The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

## 5 Test results and Measurement Data

### 5.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement:          The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
EUT Antenna:	<p>Loop coil antenna</p>  <p>The image shows two identical green PCB antennas. Each has a circular white wire loop on a central pad. Two yellow solder joints are visible on each antenna. A ruler is placed below and to the left of the antennas for scale, showing they are approximately 2.5 cm wide and 2.5 cm high.</p>
<p>The antenna is Loop coil Antenna. The best case gain of the antenna is 0 dBi.</p>	

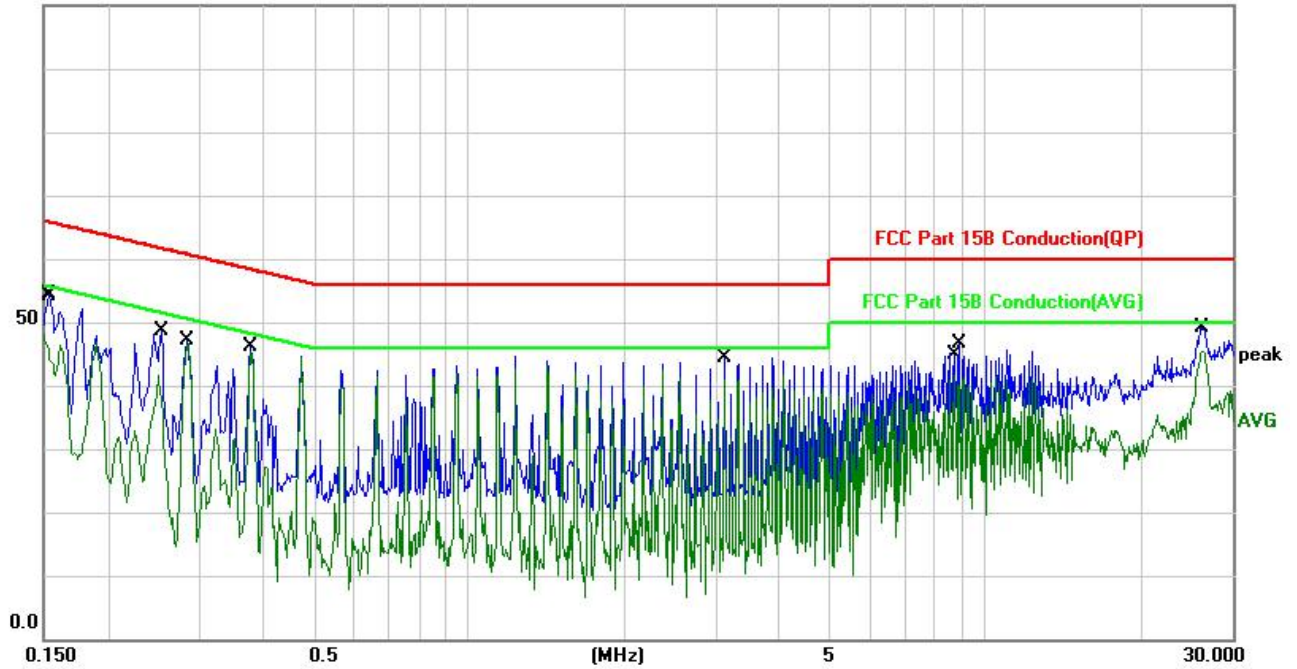
## 5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207														
Test Method:	ANSI C63.10: 2013														
Test Frequency Range:	150kHz to 30MHz														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Procedure:	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>														
Test Setup:															
Test Mode:	Mode 10														
Test Results:	Pass														

Measurement Data

L line:

100.0 dBuV



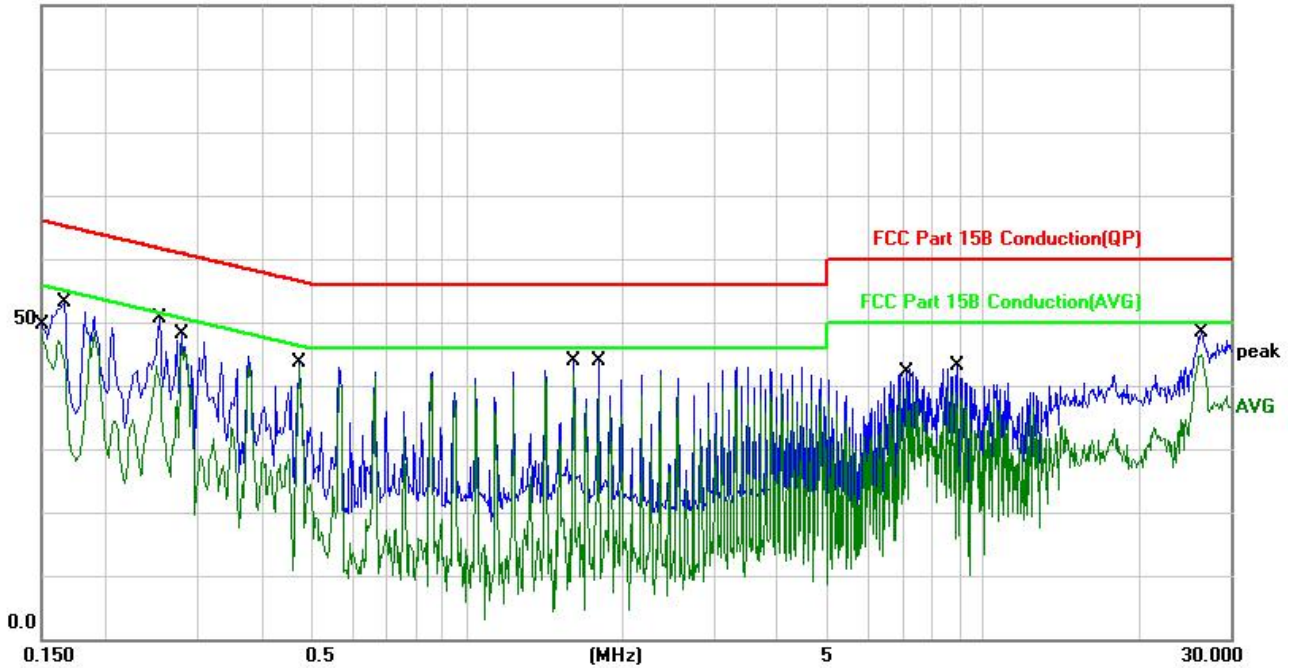
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1499	48.18	-0.13	48.05	56.00	-7.95	AVG	
2		0.1539	54.52	-0.13	54.39	65.78	-11.39	QP	
3		0.2540	48.86	-0.11	48.75	61.62	-12.87	QP	
4		0.2862	46.75	-0.01	46.74	50.63	-3.89	AVG	
5		0.3780	46.02	-0.01	46.01	58.32	-12.31	QP	
6	*	0.3780	45.42	-0.01	45.41	48.32	-2.91	AVG	
7		3.1218	44.49	-0.18	44.31	56.00	-11.69	QP	
8		3.1218	41.09	-0.18	40.91	46.00	-5.09	AVG	
9		8.7057	41.75	-0.19	41.56	50.00	-8.44	AVG	
10		8.8939	46.70	-0.19	46.51	60.00	-13.49	QP	
11		26.2420	49.68	-0.44	49.24	60.00	-10.76	QP	
12		26.4020	45.91	-0.43	45.48	50.00	-4.52	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

N line:

100.0 dBuV

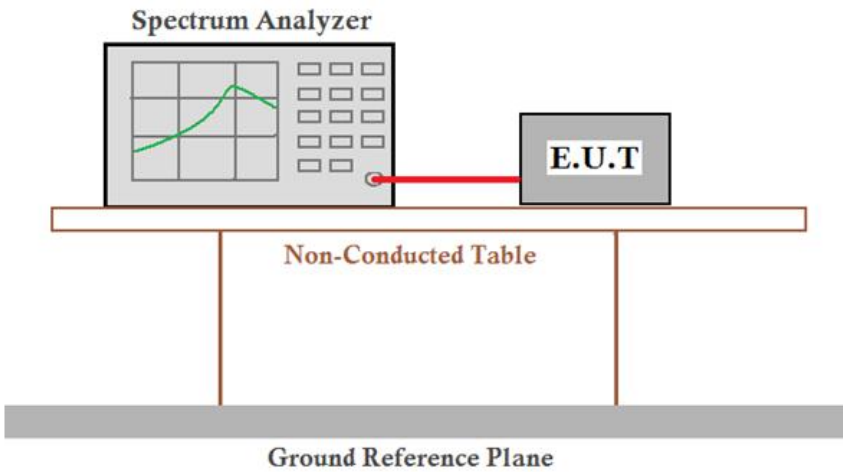


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1499	48.14	-0.13	48.01	56.00	-7.99	AVG	
2		0.1660	53.23	-0.13	53.10	65.15	-12.05	QP	
3		0.2540	50.63	-0.11	50.52	61.62	-11.10	QP	
4		0.2802	46.35	-0.01	46.34	50.81	-4.47	AVG	
5		0.4739	43.64	-0.02	43.62	56.45	-12.83	QP	
6	*	0.4739	43.24	-0.02	43.22	46.45	-3.23	AVG	
7		1.6100	42.33	-0.20	42.13	46.00	-3.87	AVG	
8		1.7980	44.18	-0.21	43.97	56.00	-12.03	QP	
9		7.0979	39.98	-0.28	39.70	50.00	-10.30	AVG	
10		8.8939	43.30	-0.19	43.11	60.00	-16.89	QP	
11		26.2820	48.84	-0.44	48.40	60.00	-11.60	QP	
12		26.2820	45.27	-0.44	44.83	50.00	-5.17	AVG	

Remark:

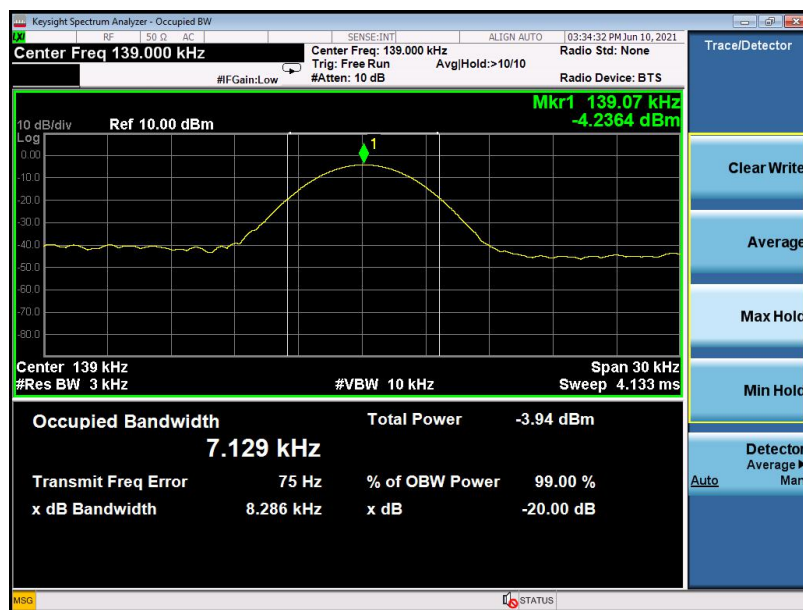
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

### 5.3 20dB Occupy Bandwidth

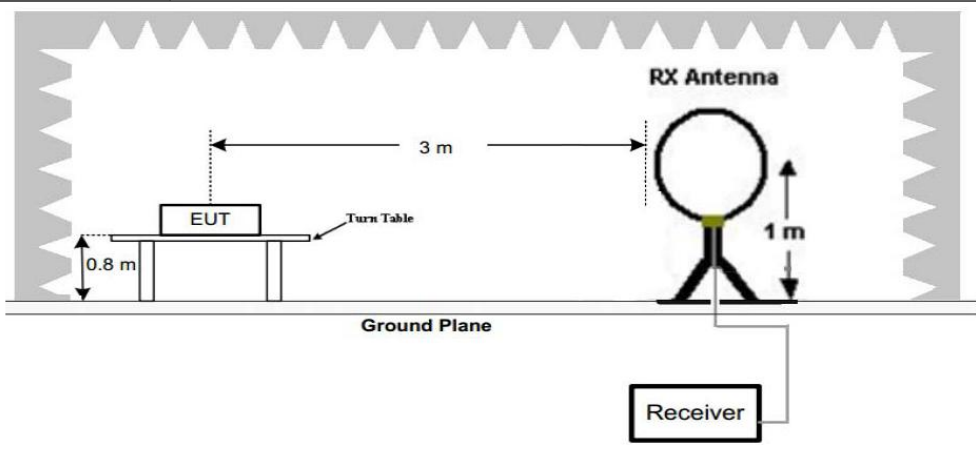
Test Requirement:	47 CFR Part 15C Section 15.215 (c)
Test Method:	ANSI C63.10 2013
Test Setup:	 <p style="text-align: center;">Remark: <math>Offset = \text{Cable loss} + \text{attenuation factor}</math>.</p>
Limit:	The 20dB bandwidth shall be less than 80% of the permitted frequency band.
Test Results:	Pass

#### Test Result:

Frequency (KHz)	20dB emission bandwidth (KHz)
139	8.286



### 5.4 Radiated Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.209				
Test Method:	ANSI C63.10 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
<p>Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.</p>					
Test Setup:					
 <p>Figure 1. Below 30MHz</p>					

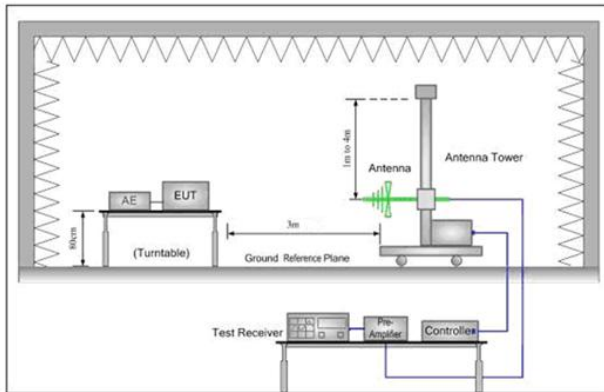


Figure 2. 30MHz to 1GHz

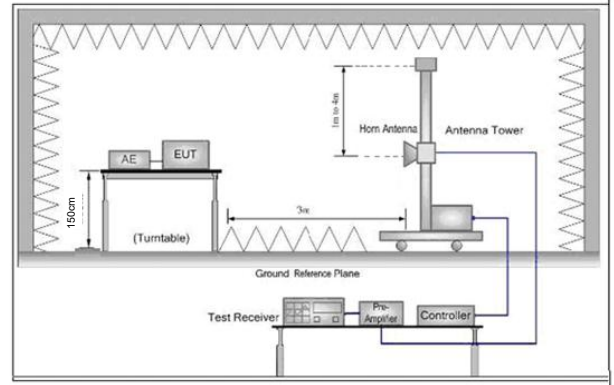


Figure 3. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on a turn table which is 0.8m above ground plane.</li> <li>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</li> <li>3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.</li> <li>4. Repeat above procedures until all frequency measurements have been completed.</li> </ol>
Test Results:	Pass

#### WORST-CASE RADIATED EMISSION BELOW 30 MHz

Frequency (MHz)	Reading (dBμV/m)	Polar (Loop)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Levels (dBμV/m)	Limits at 3m (dBμV/m)	Detector Mode
0.114(F)	47.62	Loop	23.62	0.01	71.25	106.17	PK
0.114(F)	46.32	Loop	23.61	0.01	69.94	86.17	AV
0.110	32.55	Loop	23.44	0.01	56.00	106.78	PK
0.110	32.48	Loop	23.63	0.01	56.12	86.78	AV
0.485	36.52	Loop	25.13	-0.17	61.48	73.71	QP
1.158	34.26	Loop	27.15	-0.25	61.16	66.33	QP
2.178	34.28	Loop	23.72	-0.24	57.76	69.54	QP

#### Remark:

1. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
2. The test limit distance is 3m limit.
3. PK means Peak Value, QP means Quasi Peak Value, AV means Average Value.
4. F means Fundamental Frequency.

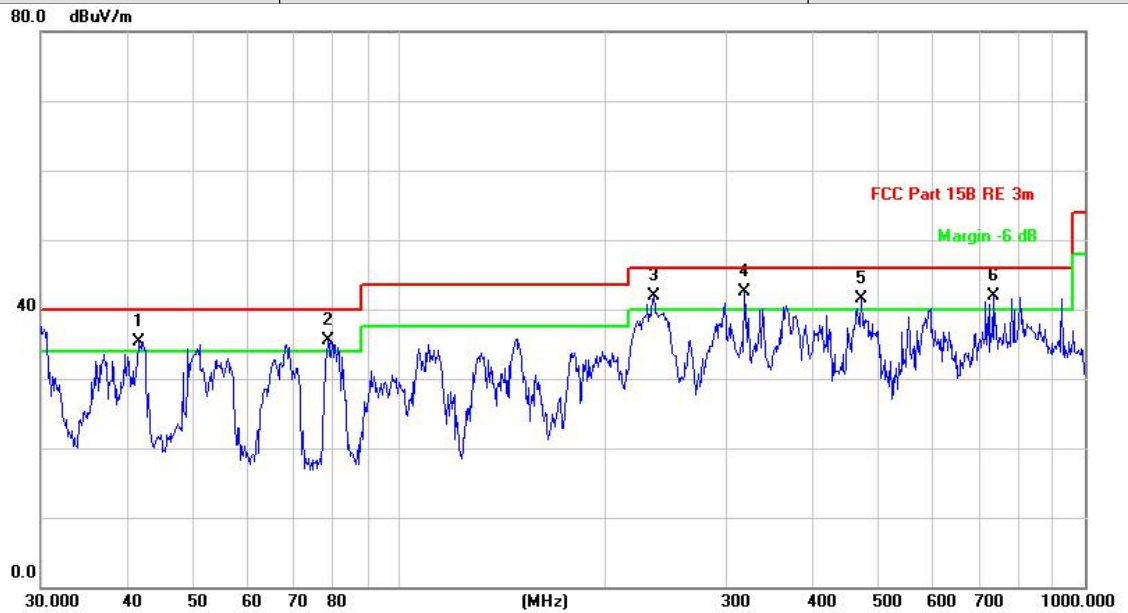


Radiated Emission below 1GHz		
30MHz~1GHz, the worst case		
Test mode:	Mode f	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	!	42.6000	49.41	-14.33	35.08	40.00	-4.92	QP			
2	*	79.2425	58.12	-23.00	35.12	40.00	-4.88	QP			
3		149.4857	49.66	-14.91	34.75	43.50	-8.75	QP			
4		234.1682	55.59	-16.56	39.03	46.00	-6.97	QP			
5		390.7225	45.23	-9.07	36.16	46.00	-9.84	QP			
6	!	813.1114	34.04	6.31	40.35	46.00	-5.65	QP			

30MHz~1GHz, the worst case		
Test mode:	Mode f	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	!	41.7129	49.18	-13.94	35.24	40.00	-4.76	QP			
2	!	78.6888	53.33	-17.90	35.43	40.00	-4.57	QP			
3	!	234.9909	58.03	-16.17	41.86	46.00	-4.14	QP			
4	*	318.8170	54.82	-12.24	42.58	46.00	-3.42	QP			
5	!	472.1759	46.89	-5.40	41.49	46.00	-4.51	QP			
6	!	734.4913	39.27	2.59	41.86	46.00	-4.14	QP			

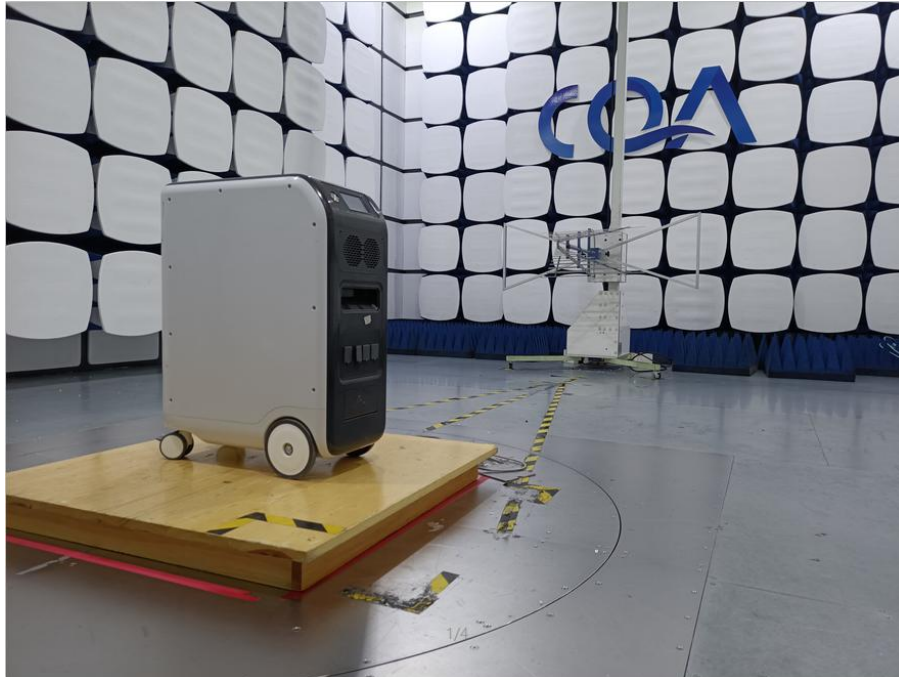
## 6 Photographs - EUT Test Setup

Radiated Emission

9kHz~30MHz:



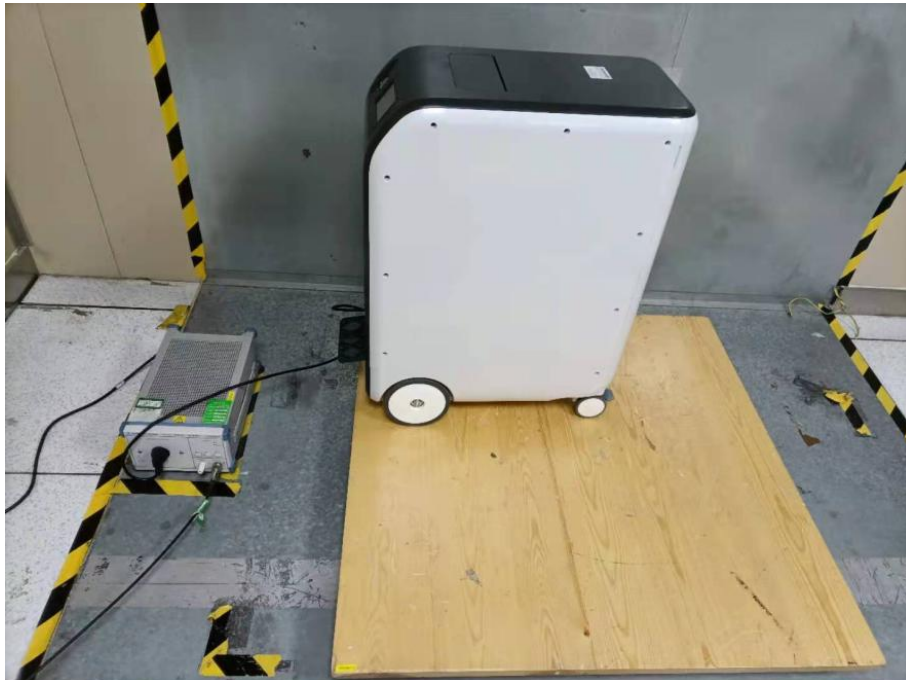
30MHz~1GHz:



Above 1GHz:



Conducted Emission



## 7 Photographs - EUT Constructional Details

### External Photos of EUT





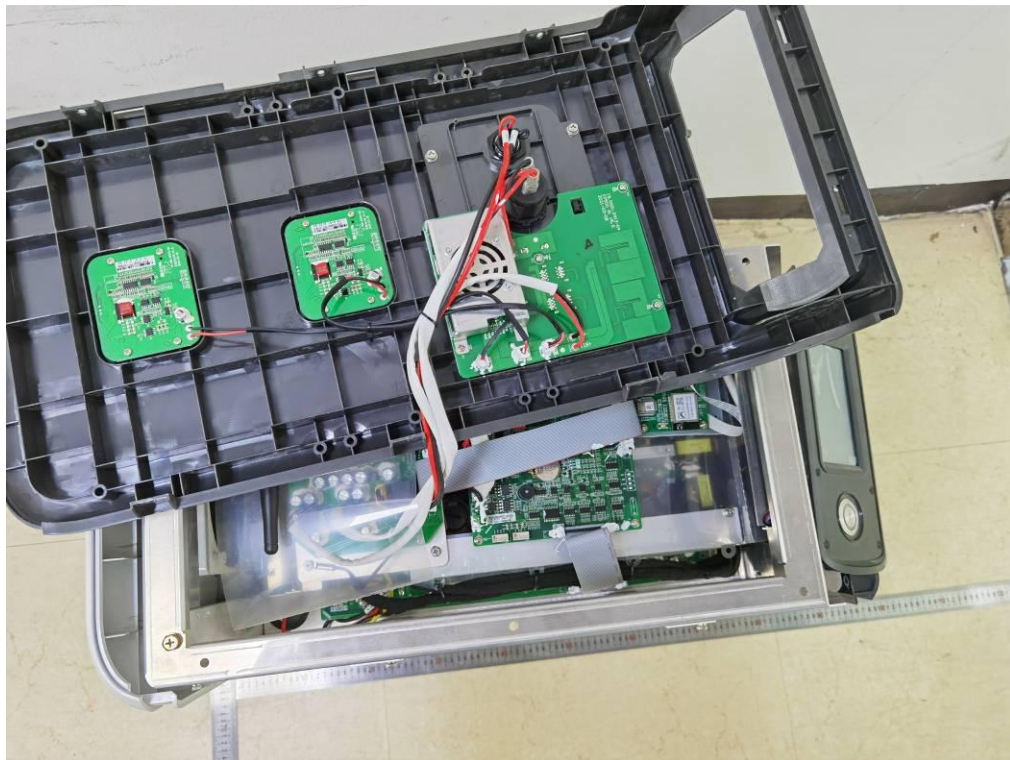


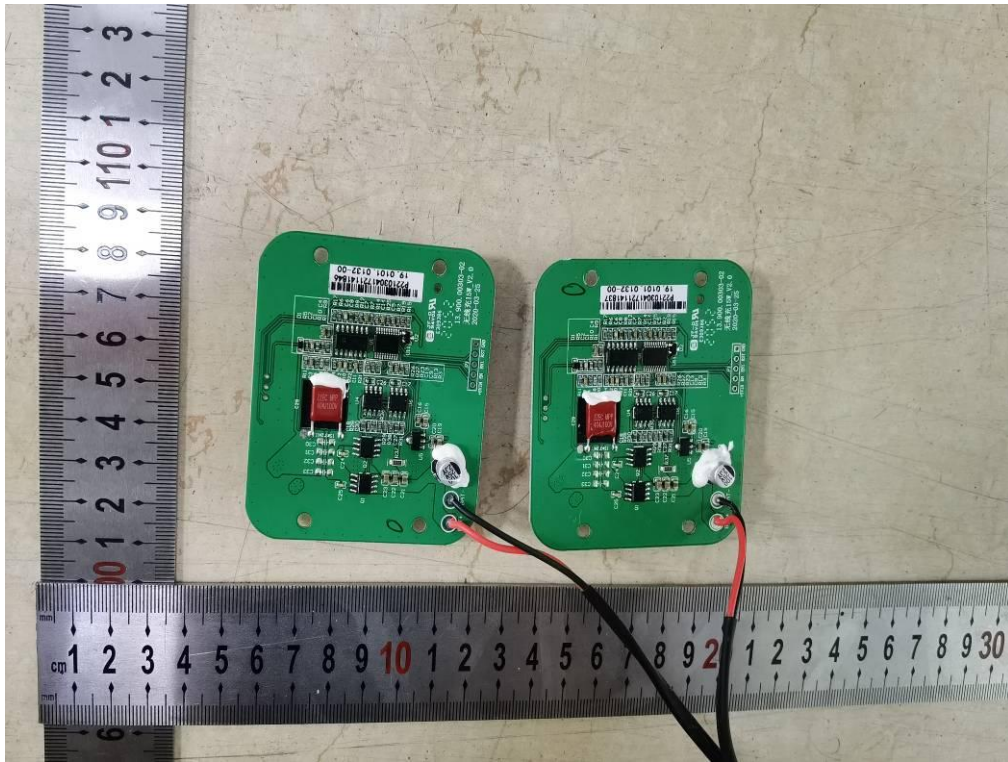


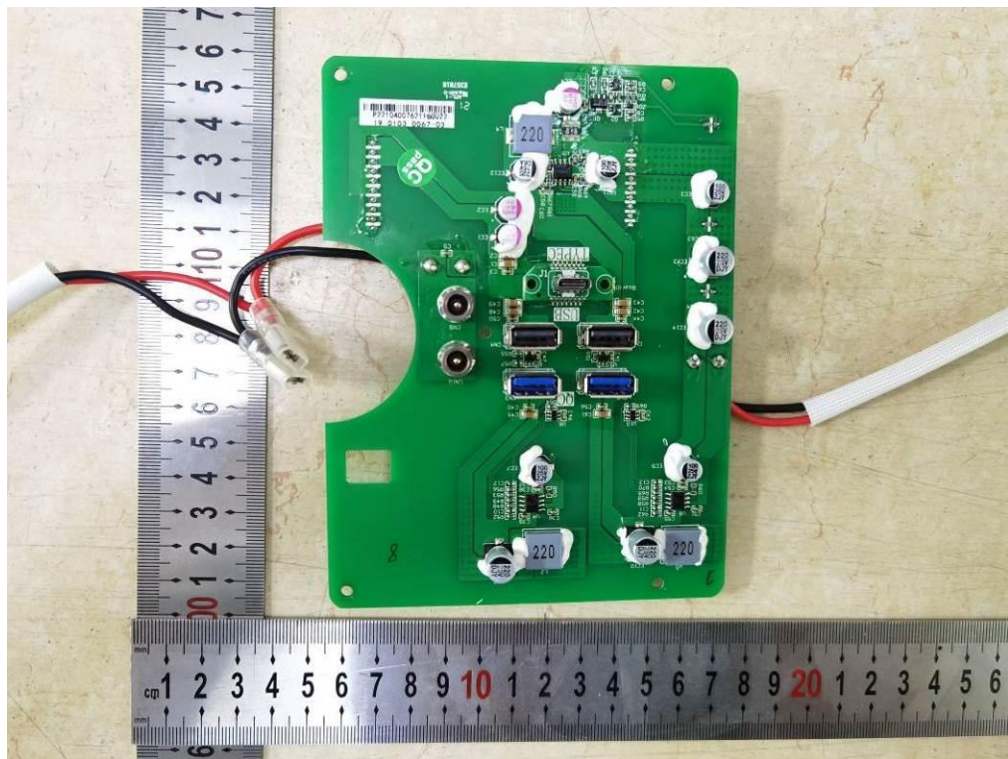
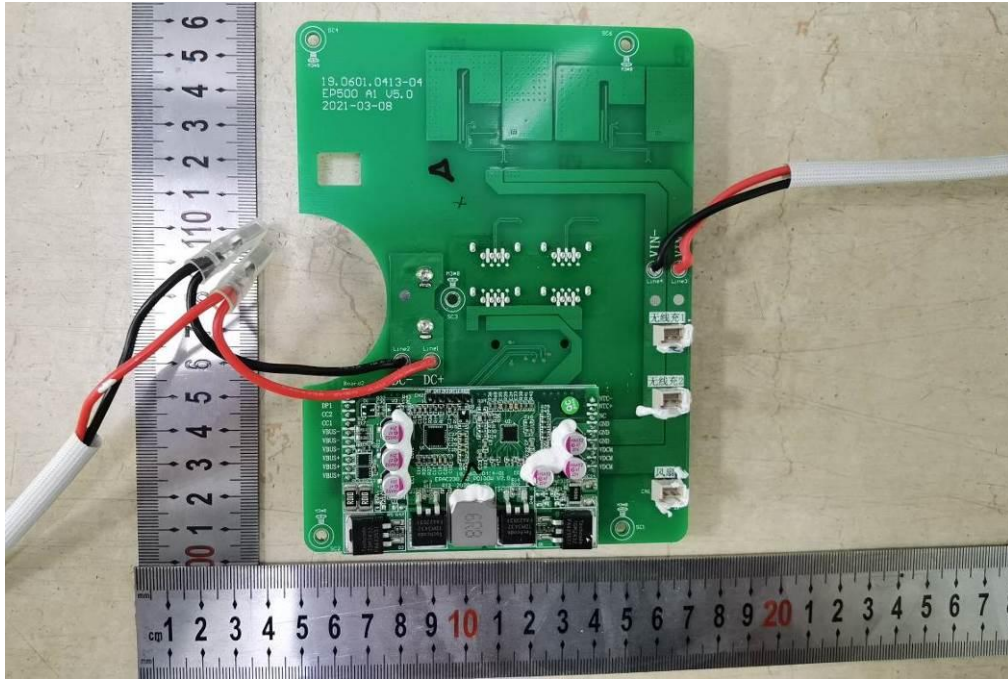


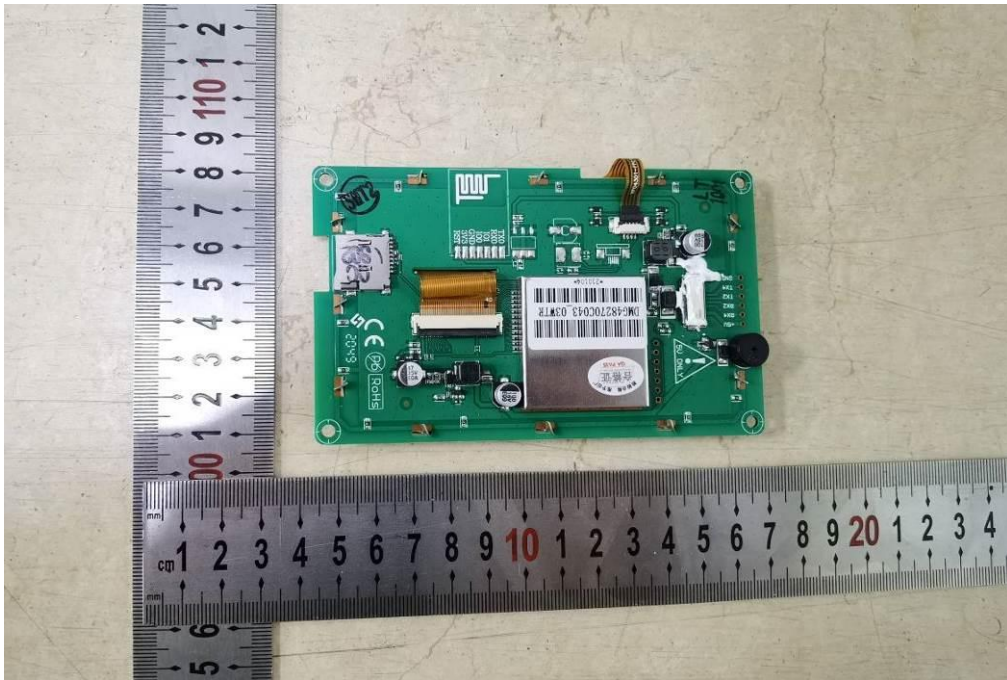
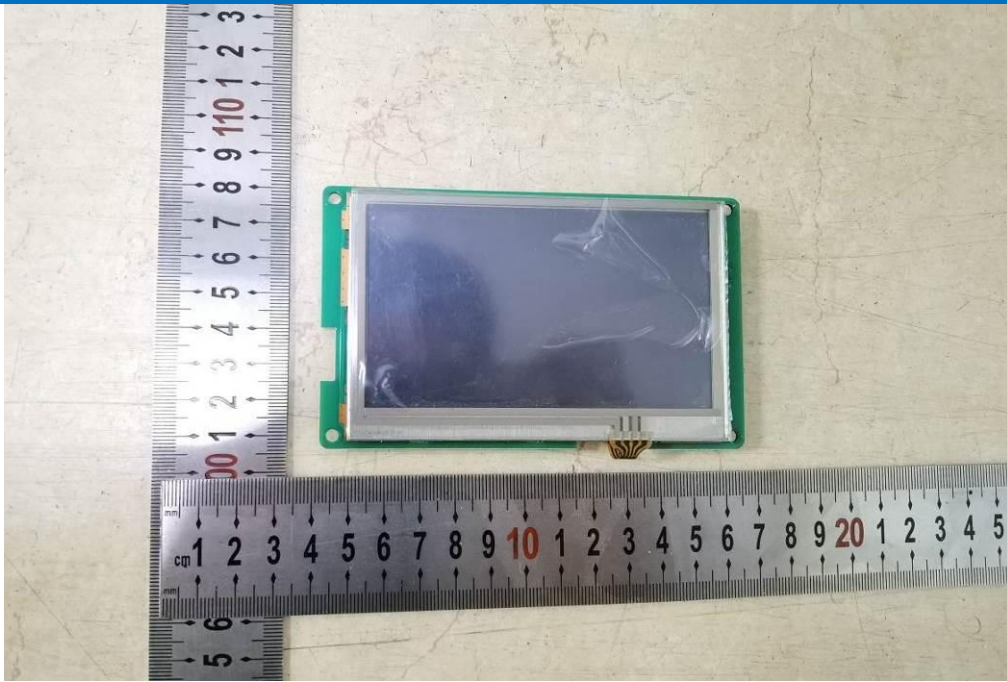


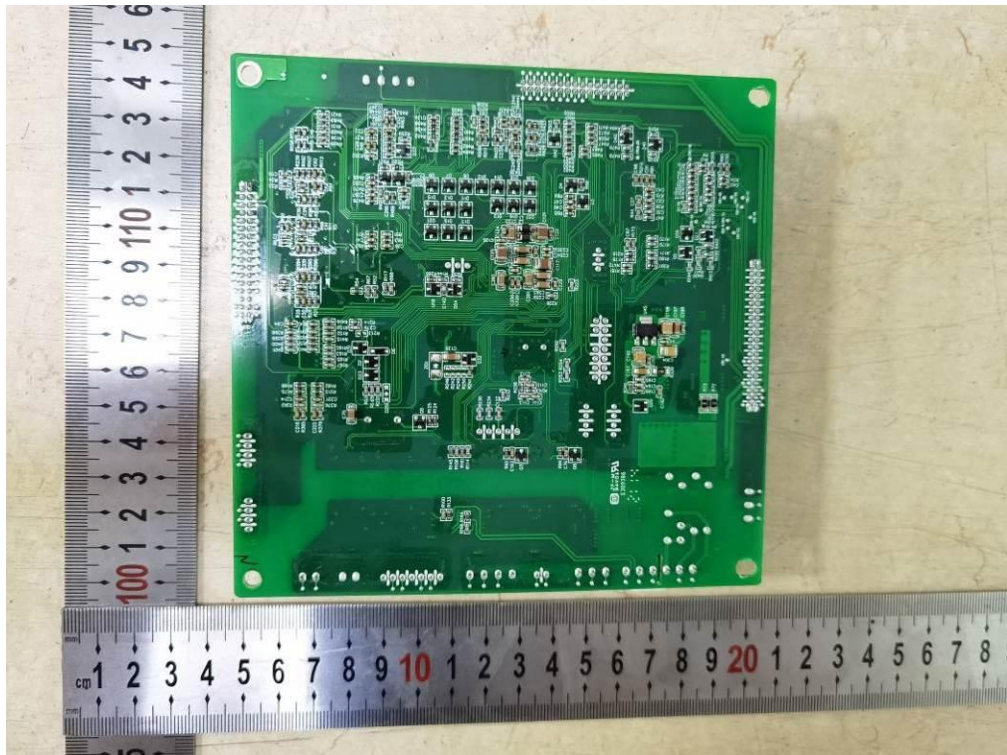
**Internal Photos of EUT**

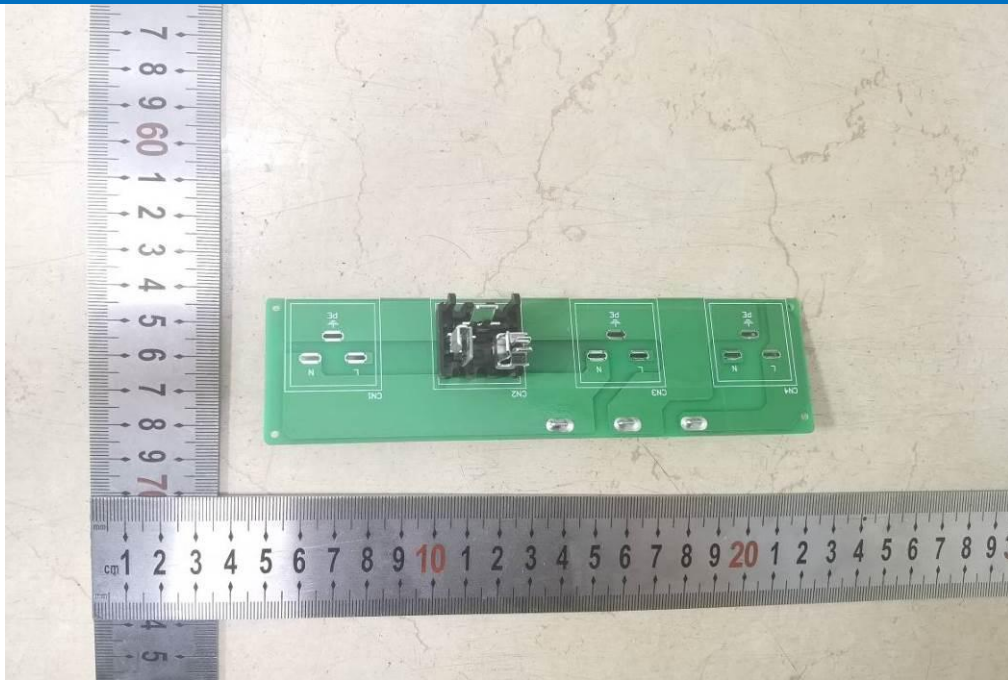


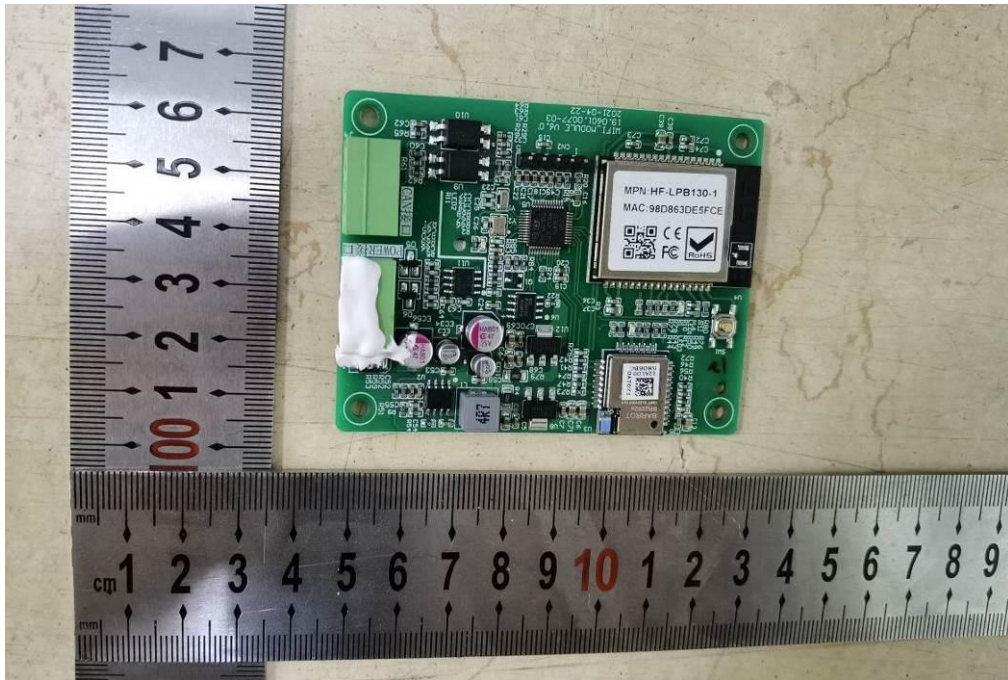
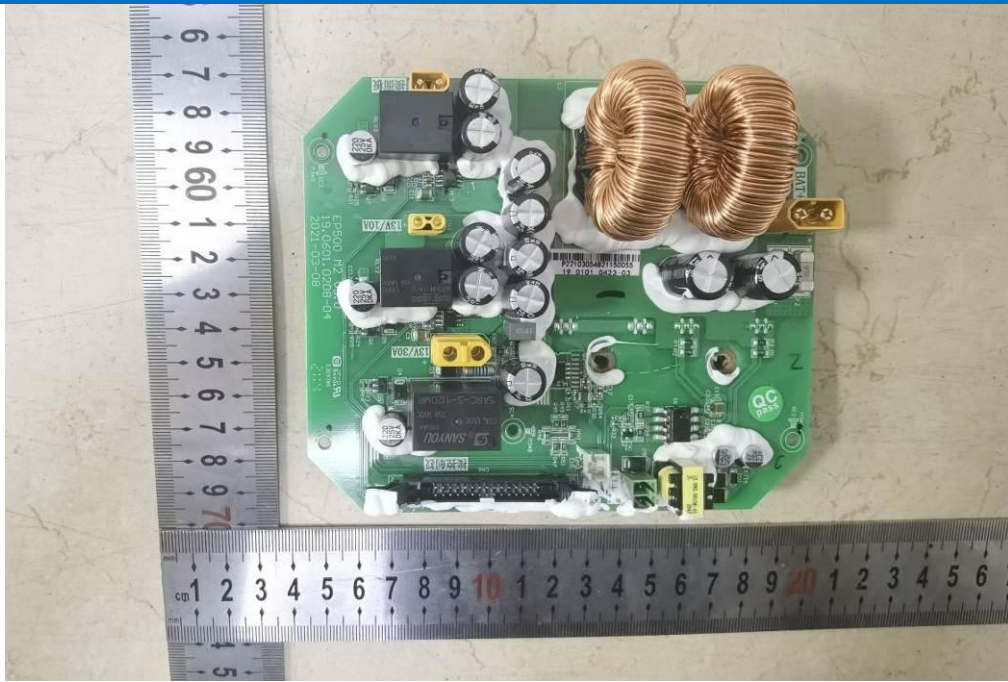




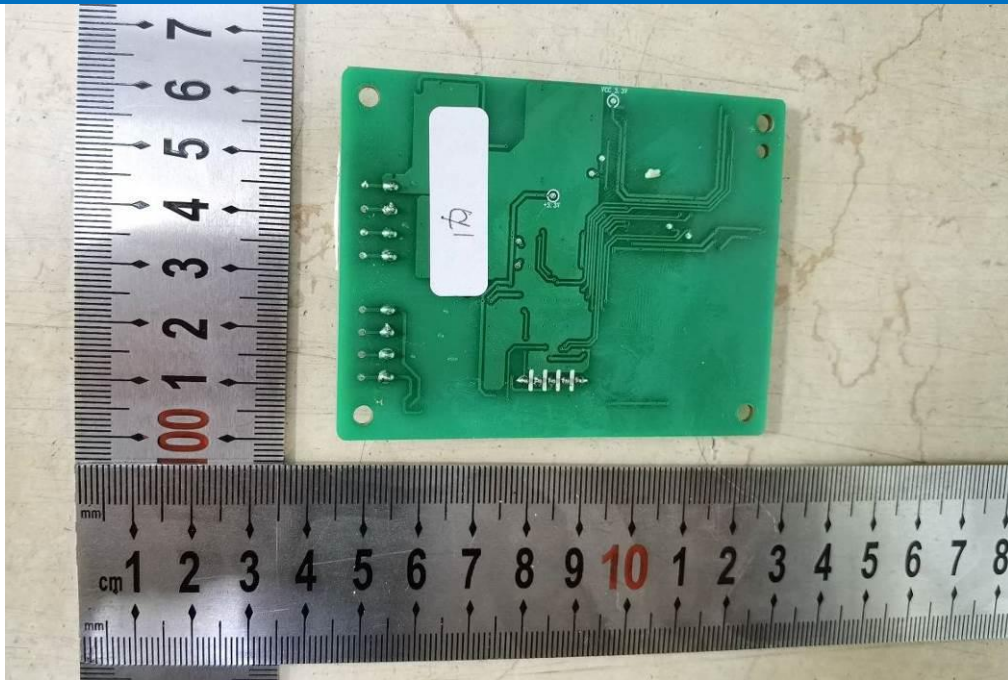


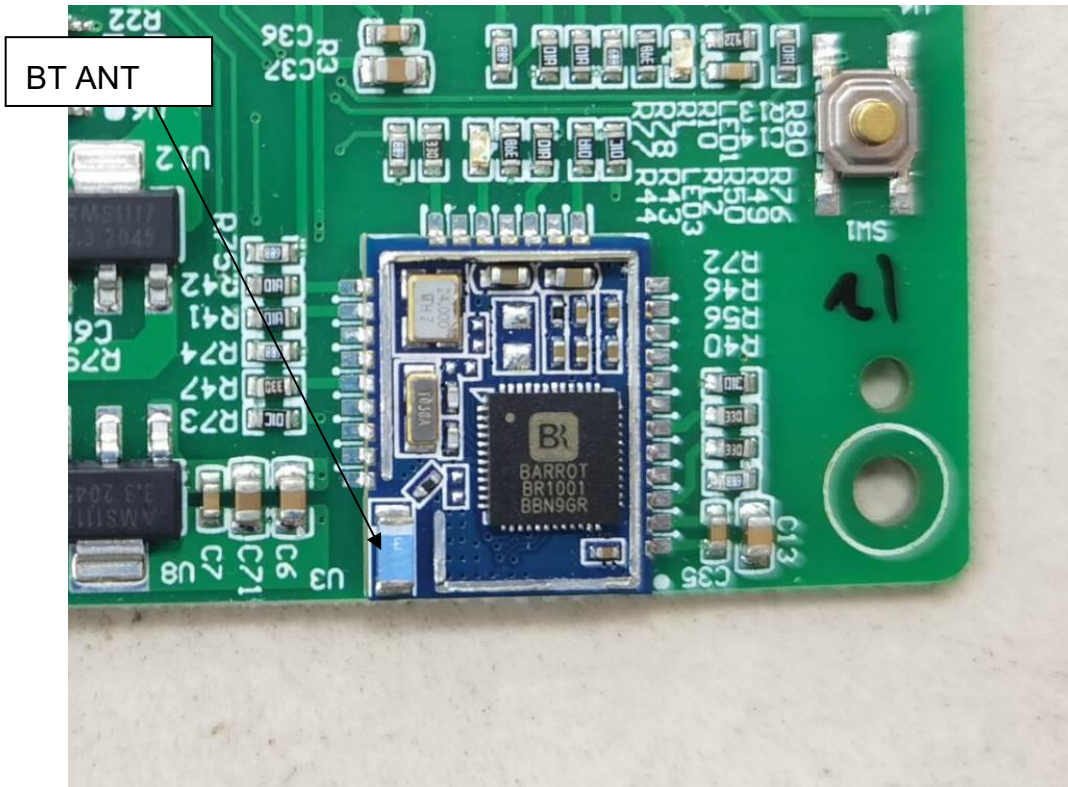
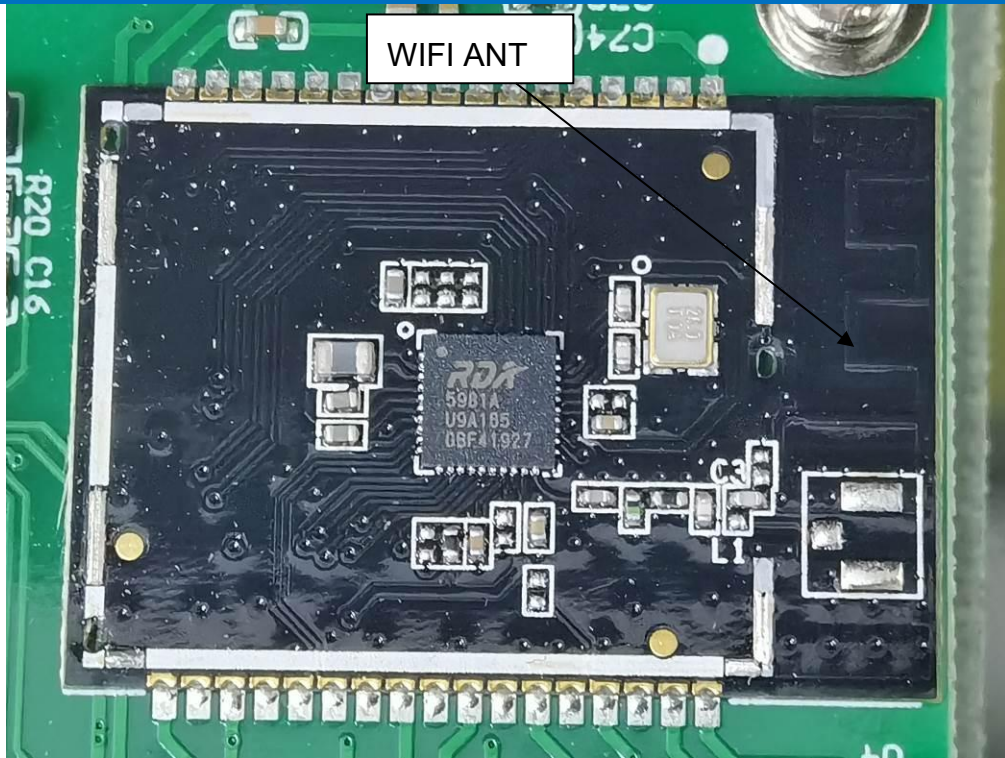


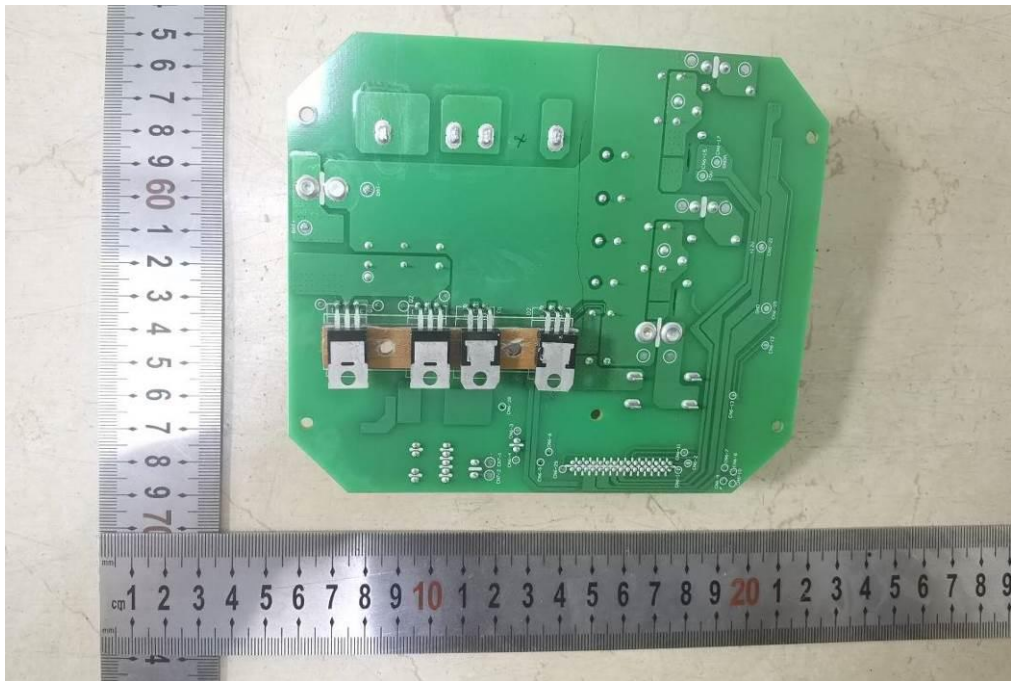
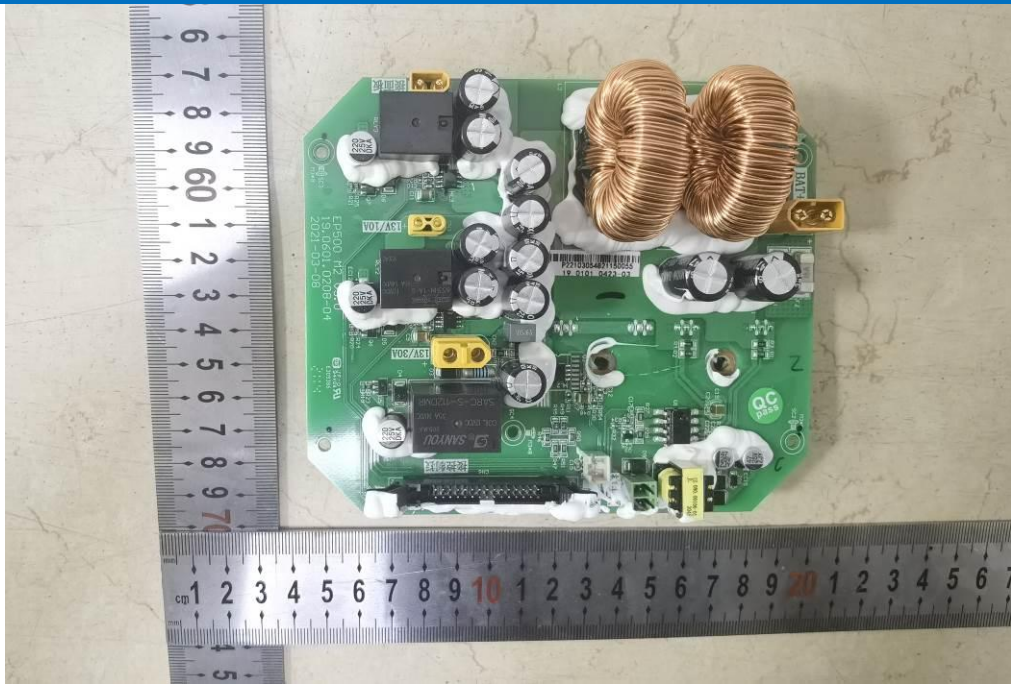


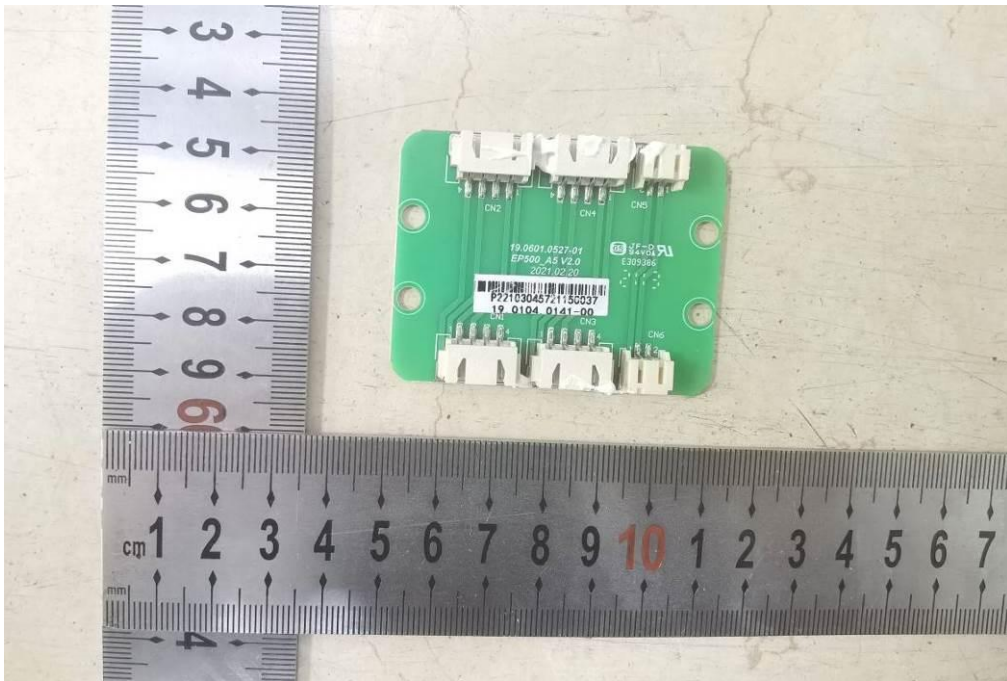
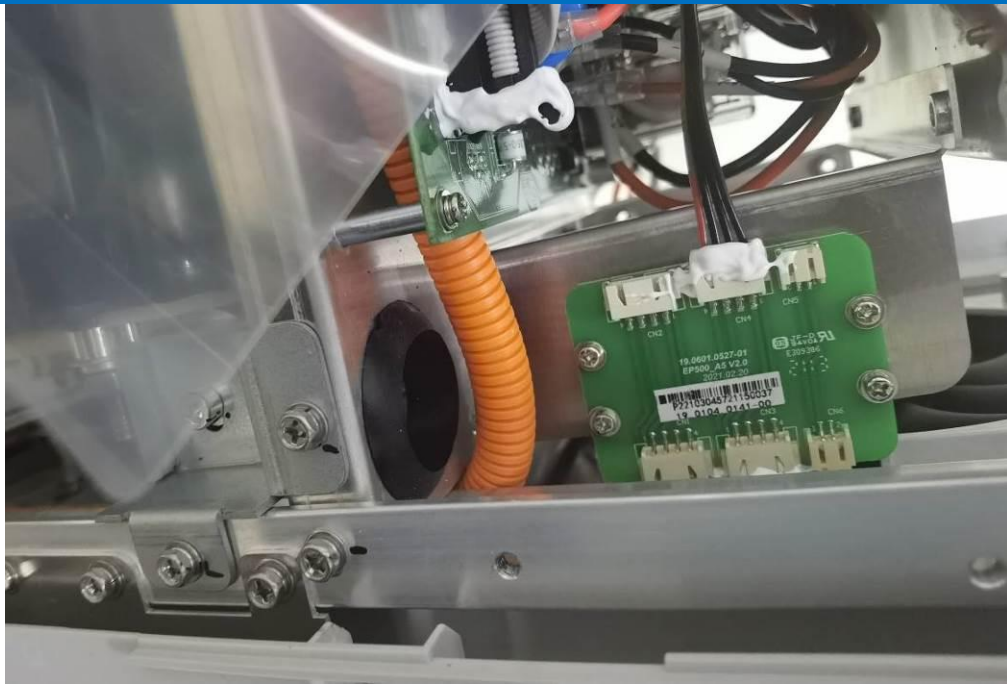


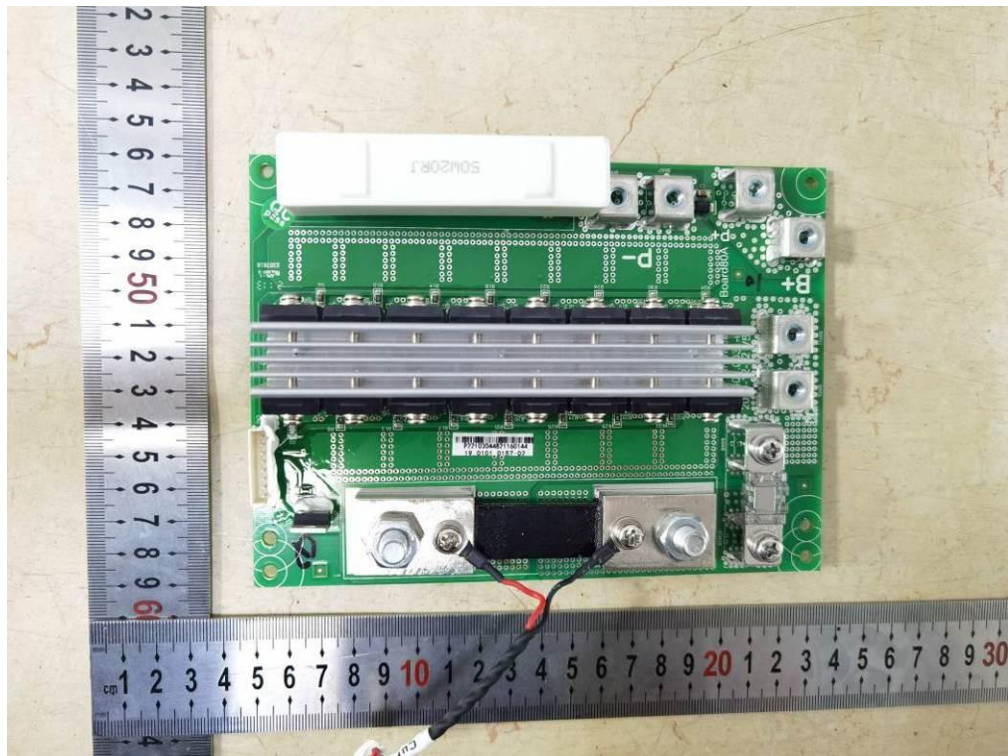
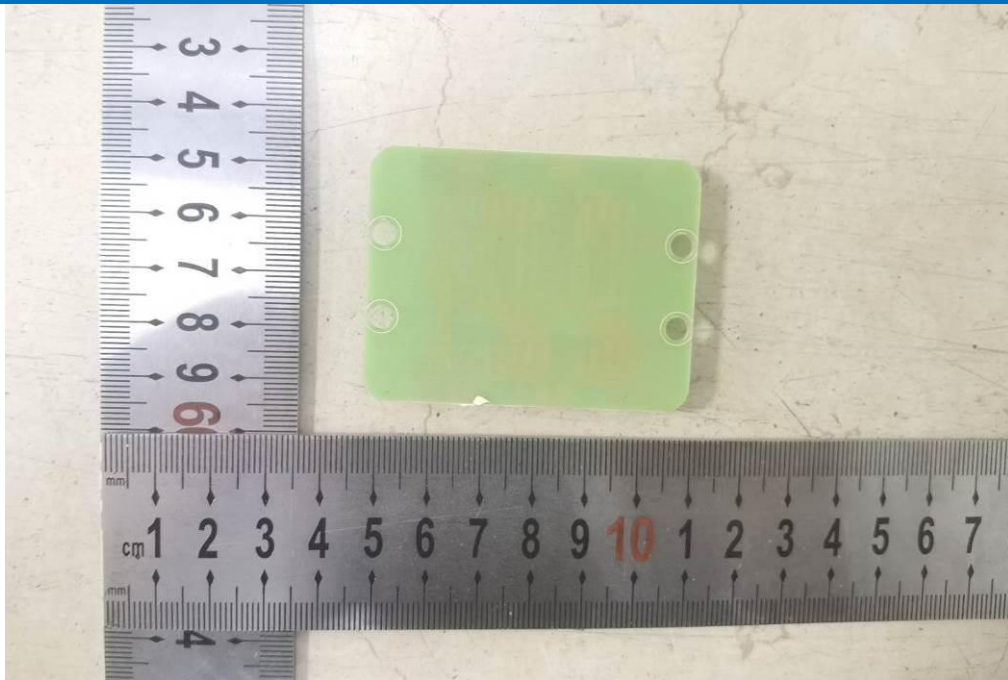


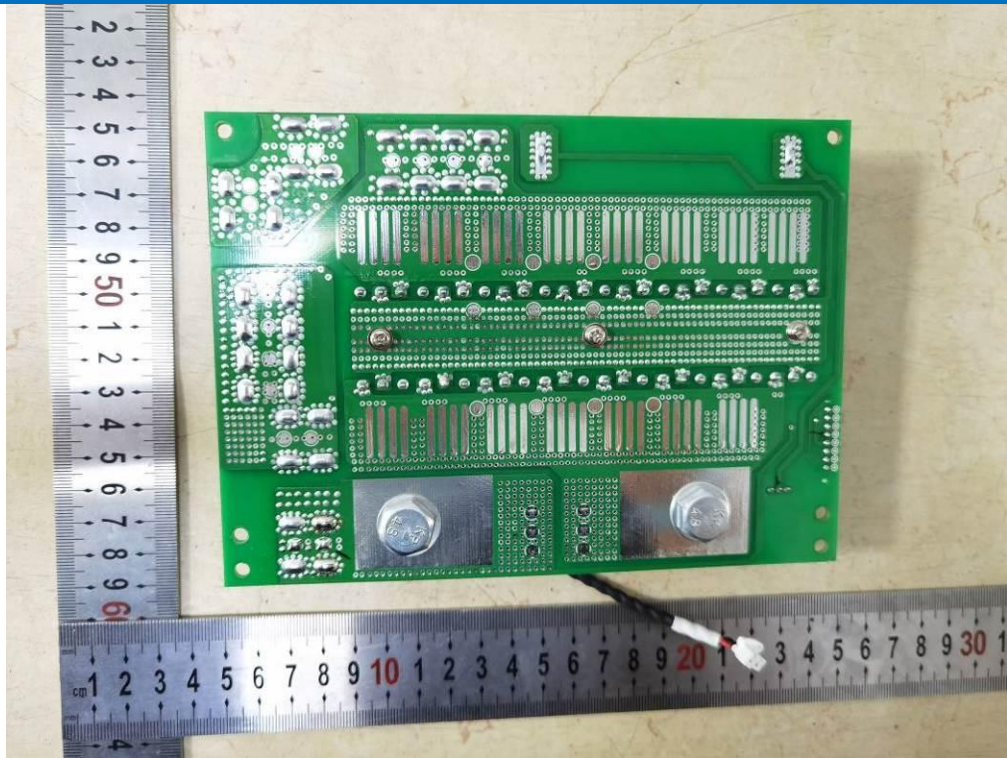












The End