



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

## FCC PART 15 SUBPART C TEST REPORT

Report Reference No..... : CTA24112800201

FCC ID..... : 2BEEDC7011E

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Date of issue ..... : Dec. 07, 2024

Testing Laboratory Name..... : Shenzhen CTA Testing Technology Co., Ltd.

Address..... : Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name..... : ALLIED VANTAGE INTERNATIONAL LIMITED

Address..... : Unit 1805, 18/F., Stelux House, 698 Prince Edward Road East, San Po Kong, Kowloon, Hong Kong, China

Test specification .....

Standard ..... : FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2013

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Test item description ..... : C7011E Charger

Trade Mark ..... : N/A

Manufacturer ..... : ALLIED VANTAGE INTERNATIONAL LIMITED

Model/Type reference ..... : C7011E

Listed Models ..... : Refer to page 2

Modulation Type..... : ASK

Operation Frequency..... : From 110KHz~205KHz

Rating ..... : Input: DC 5V 2A  
Output: 5W(Max)

Result ..... : PASS

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## TEST REPORT

Equipment under Test : C7011E Charger

Model /Type : C7011E

Listed Models : C7011EA1, C7011EA2, C7011EA3, C7011EA4, C7011EA5, C7011EA6, C7011EA7, C7011EA8, C7011EA9, C7011EA0, C7011EB1, C7011EB2, C7011EB3, C7011EB4, C7011EB5, C7011EB6, C7011EB7, C7011EB8, C7011EB9, C7011EB0, C7011EC1, C7011EC2, C7011EC3, C7011EC4, C7011EC5, C7011EC6, C7011EC7, C7011EC8, C7011EC9, C7011EC0, C7011ED1, C7011ED2, C7011ED3, C7011ED4, C7011ED5, C7011ED6, C7011ED7, C7011ED8, C7011ED9, C7011ED0, C7011EA1V1, C7011EA1V2, C7011EA1V3, C7011EA1V4, C7011EA1V5, C7011EB1V1, C7011EB1V2, C7011EB1V3, C7011EB1V4, C7011EB1V5, C7011EC1V1, C7011EC1V2, C7011EC1V3, C7011EC1V4, C7011EC1V5, C7011ED1V1, C7011ED1V2, C7011ED1V3, C7011ED1V4, C7011ED1V5

Model difference : The PCB board, circuit, structure and internal of these models are the same, Only model number is different for these model.

Applicant : ALLIED VANTAGE INTERNATIONAL LIMITED

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Manufacturer : ALLIED VANTAGE INTERNATIONAL LIMITED

Address : Unit 1805, 18/F., Stelux House, 698 Prince Edward Road East, San Po Kong, Kowloon, Hong Kong, China

|              |      |
|--------------|------|
| Test Result: | PASS |
|--------------|------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## 1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules and Regulations Part 15 Subpart C \(Section 15.207\)](#): Conducted limits.  
[FCC Rules and Regulations Part 15 Subpart C \(Section 15.209\)](#): Radiated emission limits; general requirements.  
[ANSI C63.10: 2013](#): American National Standard for Testing Unlicensed Wireless Devices

## 2 SUMMARY

### 2.1 General Remarks

|                                |   |               |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | Nov. 28, 2024 |
| Testing commenced on           | : | Nov. 28, 2024 |
| Testing concluded on           | : | Dec. 07, 2024 |

### 2.2 Product Description

|                       |                                                                      |
|-----------------------|----------------------------------------------------------------------|
| Product Name:         | C7011E Charger                                                       |
| Model/Type reference: | C7011E                                                               |
| Power supply:         | Input: DC 5V 2A<br>Output: 5W(Max)                                   |
| Test samples ID:      | CTA241128002-1# (Engineer sample)<br>CTA241128002-2# (Normal sample) |
| Hardware version:     | V1.0                                                                 |
| Software version:     | V1.0                                                                 |
| Operation frequency:  | 110KHz - 205KHz                                                      |
| Modulation type:      | ASK                                                                  |
| Antenna type:         | Loop coil antenna                                                    |

### 2.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

| Test Modes: |                   |            |
|-------------|-------------------|------------|
| Mode 1      | Wireless Charging | Recorded   |
| Mode 2      | Standby           | Pre-tested |

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

### 2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the laboratory is listed as follow:

| Description | Manufacturer | Model      | Technical Parameters | Certificate | Provided by |
|-------------|--------------|------------|----------------------|-------------|-------------|
| Phone       | /            | IPhone 11  | /                    | /           | /           |
| Adapter     | /            | EP-TA20CBC | /                    | /           | /           |
| /           | /            | /          | /                    | /           | /           |

### 2.5 Modifications

No modifications were implemented to meet testing criteria.

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### 3 TEST ENVIRONMENT

#### 3.1 Address of the test laboratory

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

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,  
Fuhai Street, Bao'an District, Shenzhen, China

#### 3.2 Test Facility

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

**FCC-Registration No.: 517856    Designation Number: CN1318**

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

**A2LA-Lab Cert. No.: 6534.01**

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

#### 3.3 Environmental conditions

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

Radiated Emission:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 24 ° C       |
|                       |              |
| Humidity:             | 45 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

AC Power Conducted Emission:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 25 ° C       |
|                       |              |
| Humidity:             | 46 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

Conducted testing:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 25 ° C       |
|                       |              |
| Humidity:             | 44 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

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### 3.4 Summary of measurement results

| Description of test            | Result    |
|--------------------------------|-----------|
| Conducted emissions test       | Compliant |
| Radiated emission test         | Compliant |
| The 20dB bandwidth measurement | Compliant |
| Antenna requirement            | Compliant |

### 3.5 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 TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen CTA 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 Shenzhen CTA Testing Technology Co., Ltd. :

| Test                                     | Range       | Measurement Uncertainty | Notes |
|------------------------------------------|-------------|-------------------------|-------|
| Radiated Emission                        | 9KHz~30MHz  | 3.02 dB                 | (1)   |
| Radiated Emission                        | 30~1000MHz  | 4.06 dB                 | (1)   |
| Radiated Emission                        | 1~18GHz     | 5.14 dB                 | (1)   |
| Radiated Emission                        | 18-40GHz    | 5.38 dB                 | (1)   |
| Conducted Disturbance                    | 0.15~30MHz  | 2.14 dB                 | (1)   |
| Output Peak power                        | 30MHz~18GHz | 0.55 dB                 | (1)   |
| Power spectral density                   | /           | 0.57 dB                 | (1)   |
| Spectrum bandwidth                       | /           | 1.1%                    | (1)   |
| Radiated spurious emission (30MHz-1GHz)  | 30~1000MHz  | 4.10 dB                 | (1)   |
| Radiated spurious emission (1GHz-18GHz)  | 1~18GHz     | 4.32 dB                 | (1)   |
| Radiated spurious emission (18GHz-40GHz) | 18-40GHz    | 5.54 dB                 | (1)   |

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

### 3.6 Equipments Used during the Test

| Test Equipment          | Manufacturer | Model No. | Equipment No. | Calibration Date | Calibration Due Date |
|-------------------------|--------------|-----------|---------------|------------------|----------------------|
| LISN                    | R&S          | ENV216    | CTA-308       | 2024/08/03       | 2025/08/02           |
| LISN                    | R&S          | ENV216    | CTA-314       | 2024/08/03       | 2025/08/02           |
| EMI Test Receiver       | R&S          | ESPI      | CTA-307       | 2024/08/03       | 2025/08/02           |
| EMI Test Receiver       | R&S          | ESCI      | CTA-306       | 2024/08/03       | 2025/08/02           |
| Spectrum Analyzer       | Agilent      | N9020A    | CTA-301       | 2024/08/03       | 2025/08/02           |
| Spectrum Analyzer       | R&S          | FSP       | CTA-337       | 2024/08/03       | 2025/08/02           |
| Vector Signal generator | Agilent      | N5182A    | CTA-305       | 2024/08/03       | 2025/08/02           |

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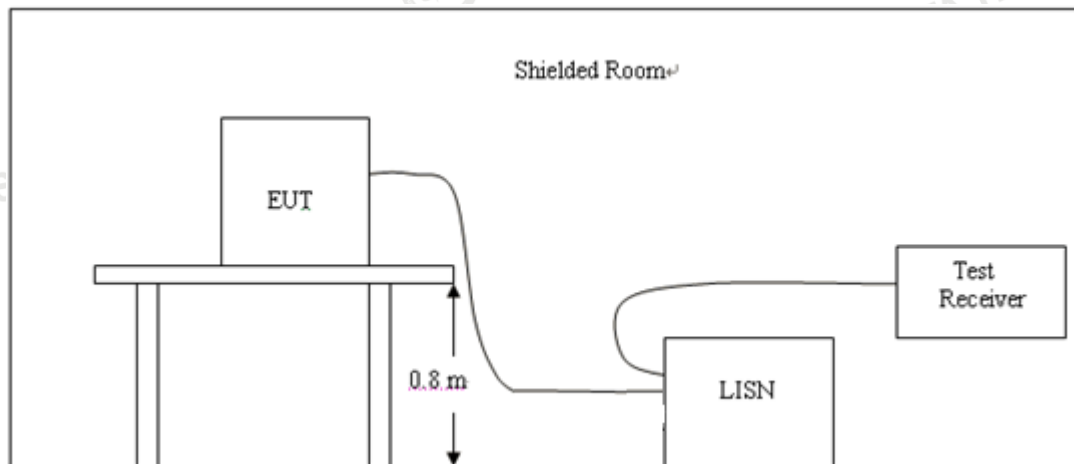
|                                     |                        |             |         |            |            |
|-------------------------------------|------------------------|-------------|---------|------------|------------|
| Analog Signal Generator             | R&S                    | SML03       | CTA-304 | 2024/08/03 | 2025/08/02 |
| WIDEBAND RADIO COMMUNICATION TESTER | CMW500                 | R&S         | CTA-302 | 2024/08/03 | 2025/08/02 |
| Temperature and humidity meter      | Chigo                  | ZG-7020     | CTA-326 | 2024/08/03 | 2025/08/02 |
| Ultra-Broadband Antenna             | Schwarzbeck            | VULB9163    | CTA-310 | 2023/10/17 | 2026/10/16 |
| Horn Antenna                        | Schwarzbeck            | BBHA 9120D  | CTA-309 | 2023/10/13 | 2026/10/12 |
| Loop Antenna                        | Zhinan                 | ZN30900C    | CTA-311 | 2023/10/17 | 2026/10/16 |
| Horn Antenna                        | Beijing Hangwei Dayang | OBH100400   | CTA-336 | 2023/10/17 | 2026/10/16 |
| Amplifier                           | Schwarzbeck            | BBV 9745    | CTA-312 | 2024/08/03 | 2025/08/02 |
| Amplifier                           | Taiwan chengyi         | EMC051845B  | CTA-313 | 2024/08/03 | 2025/08/02 |
| Directional coupler                 | NARDA                  | 4226-10     | CTA-303 | 2024/08/03 | 2025/08/02 |
| High-Pass Filter                    | XingBo                 | XBLBQ-GTA18 | CTA-402 | 2024/08/03 | 2025/08/02 |
| High-Pass Filter                    | XingBo                 | XBLBQ-GTA27 | CTA-403 | 2024/08/03 | 2025/08/02 |
| Automated filter bank               | Tonscend               | JS0806-F    | CTA-404 | 2024/08/03 | 2025/08/02 |
| Power Sensor                        | Agilent                | U2021XA     | CTA-405 | 2024/08/03 | 2025/08/02 |
| Amplifier                           | Schwarzbeck            | BBV9719     | CTA-406 | 2024/08/03 | 2025/08/02 |

| Test Equipment    | Manufacturer | Model No.   | Version number | Calibration Date | Calibration Due Date |
|-------------------|--------------|-------------|----------------|------------------|----------------------|
| EMI Test Software | Tonscend     | TS@JS32-RE  | 5.0.0.2        | N/A              | N/A                  |
| EMI Test Software | Tonscend     | TS@JS32-CE  | 5.0.0.1        | N/A              | N/A                  |
| RF Test Software  | Tonscend     | TS@JS1120-3 | 3.1.65         | N/A              | N/A                  |
| RF Test Software  | Tonscend     | TS@JS1120   | 3.1.46         | N/A              | N/A                  |

## 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.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received 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.

#### AC Power Conducted Emission Limit

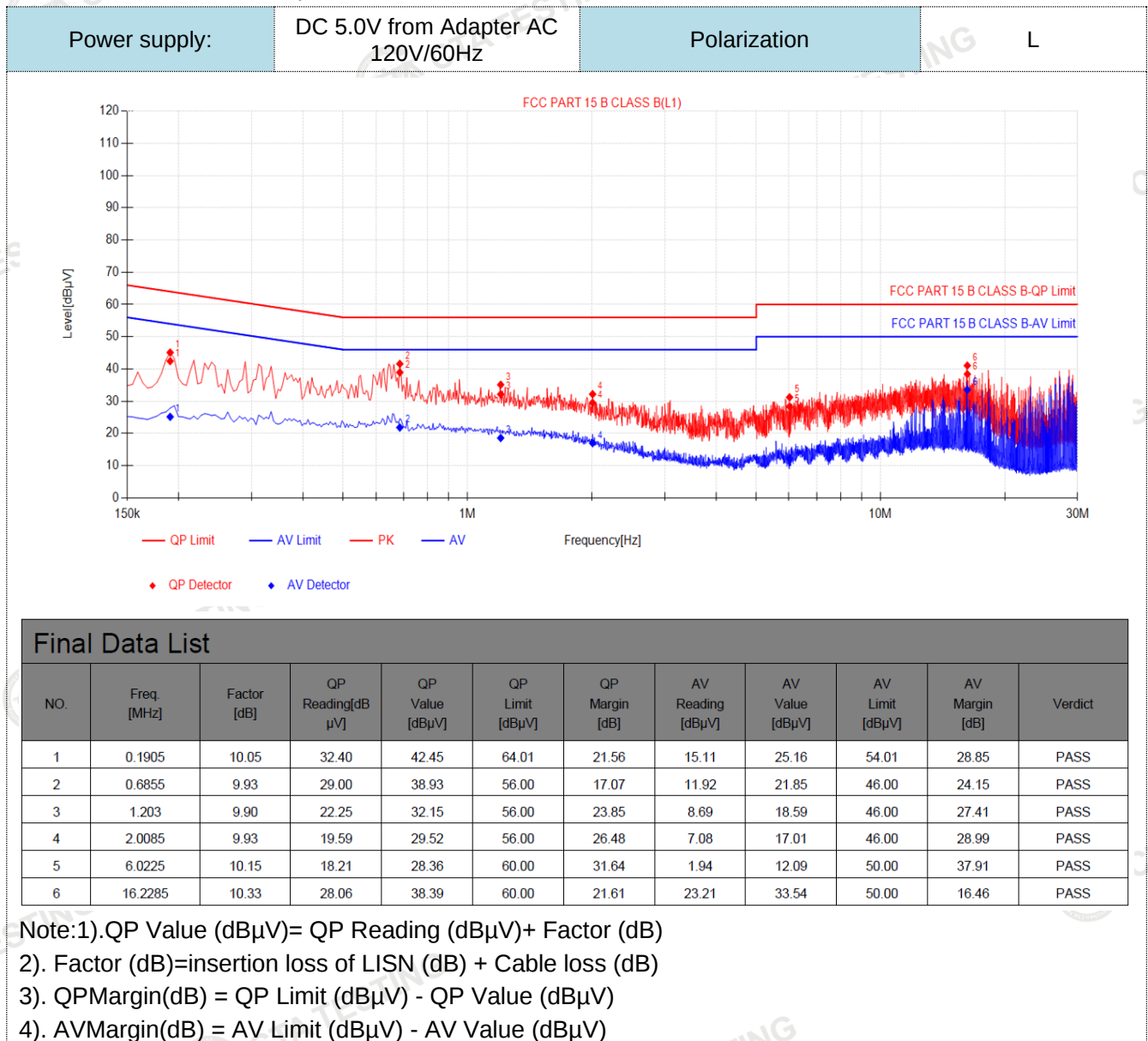
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

| 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        |

\* Decreases with the logarithm of the frequency.

**TEST RESULTS**

1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

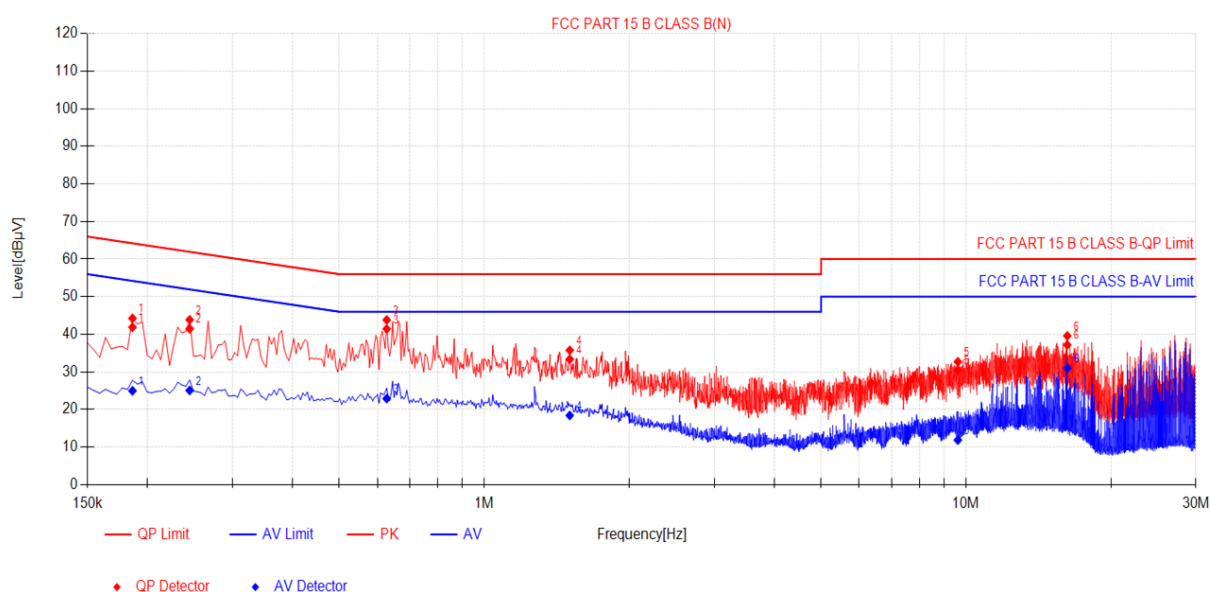


Power supply:

DC 5.0V from Adapter AC  
120V/60Hz

Polarization

N



## Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading[dB μV] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
|-----|-------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1   | 0.186       | 10.01       | 31.87             | 41.88           | 64.21           | 22.33          | 14.96             | 24.97           | 54.21           | 29.24          | PASS    |
| 2   | 0.2445      | 10.01       | 31.47             | 41.48           | 61.94           | 20.46          | 15.06             | 25.07           | 51.94           | 26.87          | PASS    |
| 3   | 0.627       | 10.13       | 31.31             | 41.44           | 56.00           | 14.56          | 12.77             | 22.90           | 46.00           | 23.10          | PASS    |
| 4   | 1.5045      | 10.13       | 23.24             | 33.37           | 56.00           | 22.63          | 8.28              | 18.41           | 46.00           | 27.59          | PASS    |
| 5   | 9.618       | 10.40       | 20.02             | 30.42           | 60.00           | 29.58          | 1.46              | 11.86           | 50.00           | 38.14          | PASS    |
| 6   | 16.2285     | 10.45       | 26.74             | 37.19           | 60.00           | 22.81          | 20.57             | 31.02           | 50.00           | 18.98          | PASS    |

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)

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## 4.2 Radiated Emission

### Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

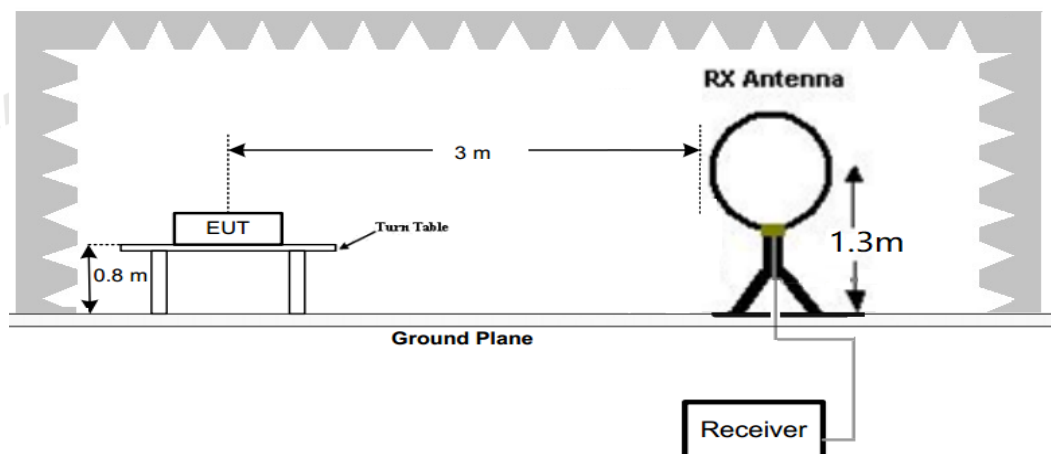
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

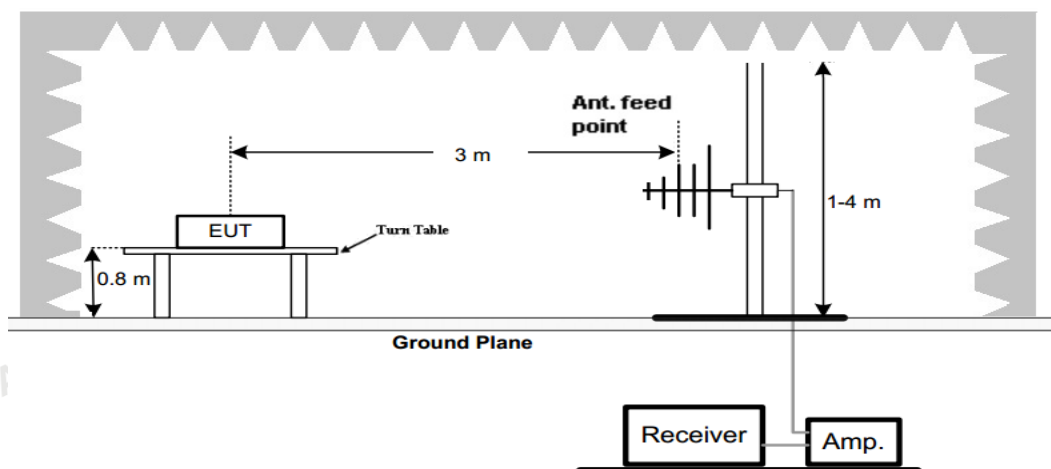
| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m)                          | Radiated (μV/m)       |
|-----------------|-------------------|--------------------------------------------|-----------------------|
| 0.009-0.49      | 3                 | $20\log(2400/F(\text{KHz}))+40\log(300/3)$ | $2400/F(\text{KHz})$  |
| 0.49-1.705      | 3                 | $20\log(24000/F(\text{KHz}))+40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30        | 3                 | $20\log(30)+40\log(30/3)$                  | 30                    |
| 30-88           | 3                 | 40.0                                       | 100                   |
| 88-216          | 3                 | 43.5                                       | 150                   |
| 216-960         | 3                 | 46.0                                       | 200                   |
| Above 960       | 3                 | 54.0                                       | 500                   |

### TEST CONFIGURATION

#### 1. Radiated Emission Test Set-Up, Frequency Below 30MHz



#### 2. Radiated Emission Test Set-Up, Frequency below 1000MHz



### Test Procedure

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- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turntable from 0°C to 360°C to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 1000MHz.
- The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type   | Test Distance |
|----------------------|---------------------|---------------|
| 9KHz-30MHz           | Active Loop Antenna | 3             |
| 30MHz-1GHz           | Bilog Antenna       | 3             |

- Setting test receiver/spectrum as following table states:

| Test Frequency range | Test Receiver/Spectrum Setting          | Detector |
|----------------------|-----------------------------------------|----------|
| 9KHz-150KHz          | RBW=200Hz/VBW=3KHz, Sweep time=Auto     | QP       |
| 150KHz-30MHz         | RBW=9KHz/VBW=100KHz, Sweep time=Auto    | QP       |
| 30MHz-1GHz           | RBW=120KHz/VBW=1000KHz, Sweep time=Auto | QP       |

## TEST RESULTS

### For 9 KHz-30MHz

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

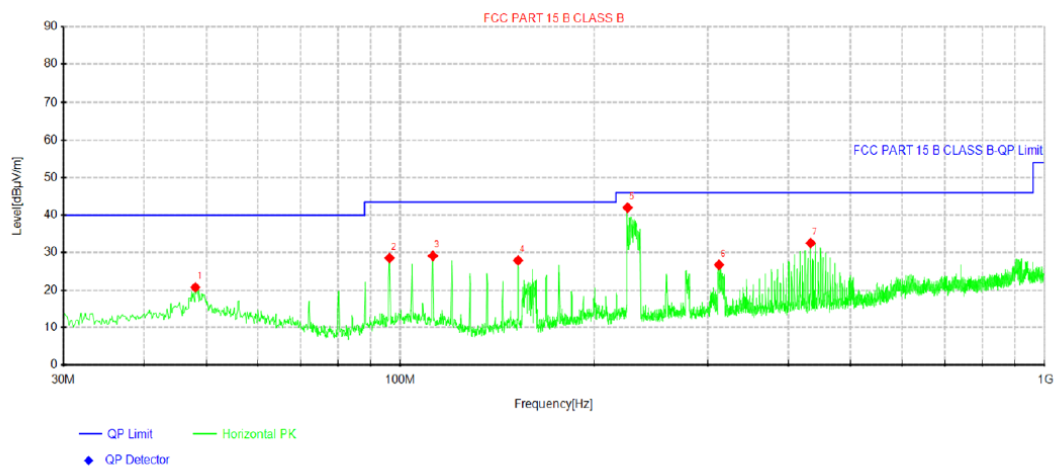
| Frequency   | Reading  | Polar | Antenna Factor | Cable Loss | Emission Levels | Limits at 3m | Margin | Detector Mode |
|-------------|----------|-------|----------------|------------|-----------------|--------------|--------|---------------|
| (MHz)       | (dBμV/m) | Loop  | (dB/m)         | (dB)       | (dBμV/m)        | (dBμV/m)     | (dB)   |               |
| 0.122700(F) | 75.98    | Loop  | 23.63          | 0.02       | 99.63           | 105.83       | 6.20   | PK            |
| 0.122700(F) | 55.63    | Loop  | 23.63          | 0.02       | 79.28           | 85.83        | 6.55   | AV            |
| 0.110       | 55.14    | Loop  | 23.51          | 0.02       | 78.67           | 106.78       | 28.11  | PK            |
| 0.110       | 49.18    | Loop  | 23.51          | 0.02       | 72.71           | 86.78        | 14.07  | AV            |
| 0.288       | 44.47    | Loop  | 23.82          | -0.17      | 68.12           | 98.42        | 30.30  | QP            |
| 0.471       | 41.78    | Loop  | 24.21          | -0.28      | 65.71           | 94.14        | 28.43  | QP            |
| 0.549       | 36.27    | Loop  | 24.32          | -0.3       | 60.29           | 72.81        | 12.52  | QP            |
| --          | --       | --    | --             | --         | --              | --           | --     | --            |

Remark:

- 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 and not recorded.
- The test limit distance is 3m limit.
- PK means Peak Value, QP means Quasi Peak Value, AV means Average Value.
- F means Fundamental Frequency.
- Emission level (dBμV/m) = Reading + Antenna Factor + Cable Loss.
- Margin value = Limit value- Emission level.

## For 30MHz-1GHz

## Horizontal



## Suspected Data List

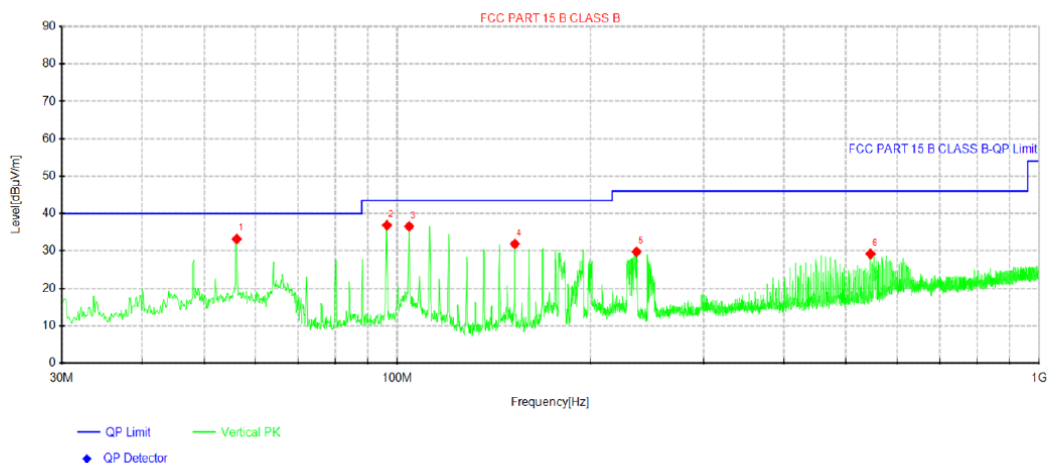
| NO. | Freq. [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|------------|
| 1   | 48.0662     | 32.03          | 20.77          | -11.26        | 40.00          | 19.23       | 100         | 266       | Horizontal |
| 2   | 96.2025     | 42.24          | 28.60          | -13.64        | 43.50          | 14.90       | 100         | 175       | Horizontal |
| 3   | 112.328     | 42.65          | 29.16          | -13.49        | 43.50          | 14.34       | 100         | 220       | Horizontal |
| 4   | 152.341     | 43.49          | 27.94          | -15.55        | 43.50          | 15.56       | 100         | 255       | Horizontal |
| 5   | 225.212     | 54.47          | 42.01          | -12.46        | 46.00          | 3.99        | 100         | 278       | Horizontal |
| 6   | 312.27      | 37.66          | 26.76          | -10.90        | 46.00          | 19.24       | 100         | 139       | Horizontal |
| 7   | 433.398     | 42.39          | 32.56          | -9.83         | 46.00          | 13.44       | 100         | 352       | Horizontal |

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)

## Vertical



## Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|----------------|---------------|----------------|-------------|-------------|-----------|----------|
| 1   | 56.19       | 45.05          | 33.20          | -11.85        | 40.00          | 6.80        | 100         | 8         | Vertical |
| 2   | 96.3238     | 50.51          | 36.89          | -13.62        | 43.50          | 6.61        | 100         | 24        | Vertical |
| 3   | 104.326     | 49.63          | 36.60          | -13.03        | 43.50          | 6.90        | 100         | 70        | Vertical |
| 4   | 152.462     | 47.46          | 31.90          | -15.56        | 43.50          | 11.60       | 100         | 175       | Vertical |
| 5   | 235.882     | 42.18          | 29.79          | -12.39        | 46.00          | 16.21       | 100         | 152       | Vertical |
| 6   | 545.918     | 38.08          | 29.21          | -8.87         | 46.00          | 16.79       | 100         | 198       | Vertical |

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)

### 4.3 The 20dB bandwidth

#### TEST CONFIGURATION



#### TEST PROCEDURE

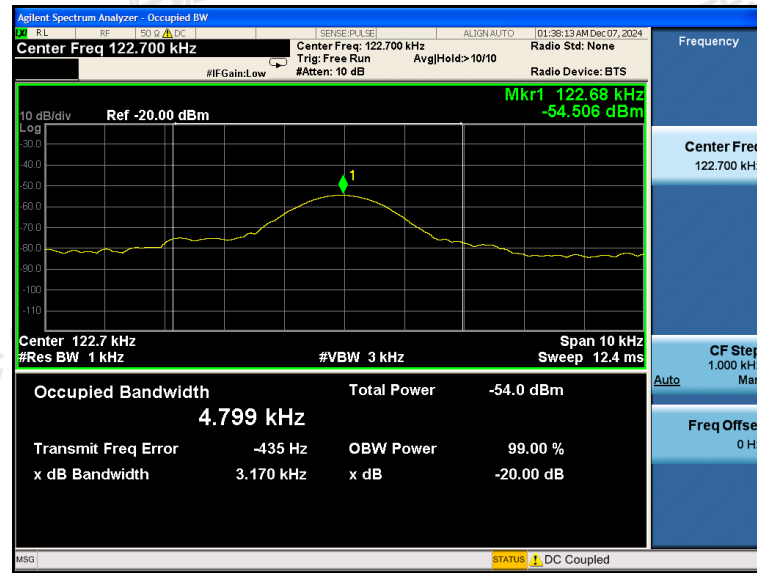
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

#### LIMIT

The 20dB bandwidth shall be less than 80% of the permitted frequency band.

#### TEST RESULTS

| Mode    | Freq (KHz) | 20dB Bandwidth (KHz) | Conclusion |
|---------|------------|----------------------|------------|
| Tx Mode | 122.70     | 3.170                | PASS       |



#### 4.4 Antenna Requirement

##### Standard Applicable

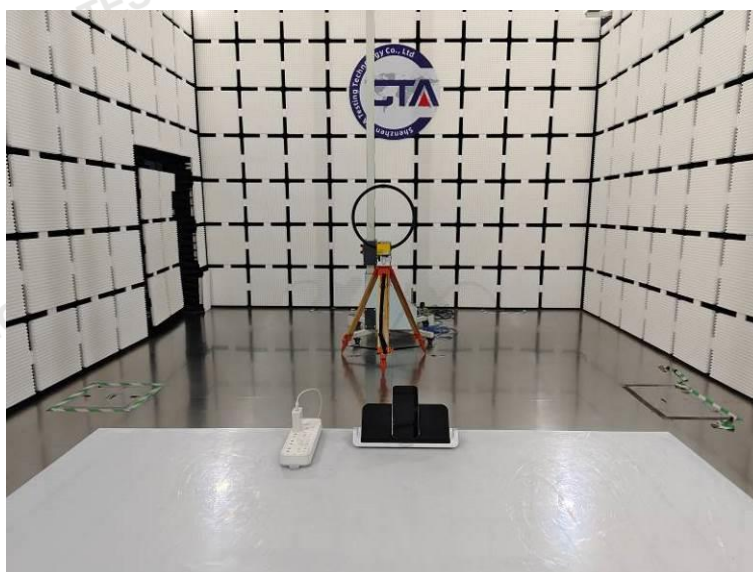
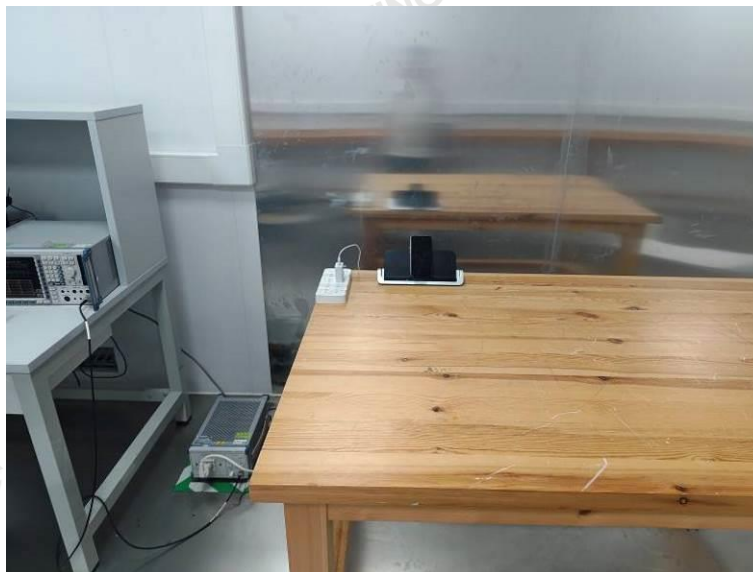
##### Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

##### Antenna Information

The antenna used in this product is a Coil Antenna, The directional gains of antenna used for transmitting is 0dBi.

## 5 Test Setup Photos of the EUT



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Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

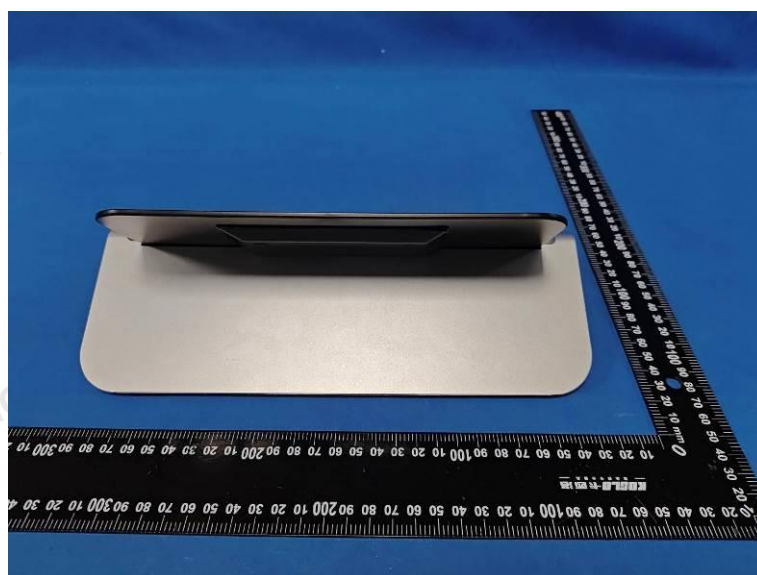
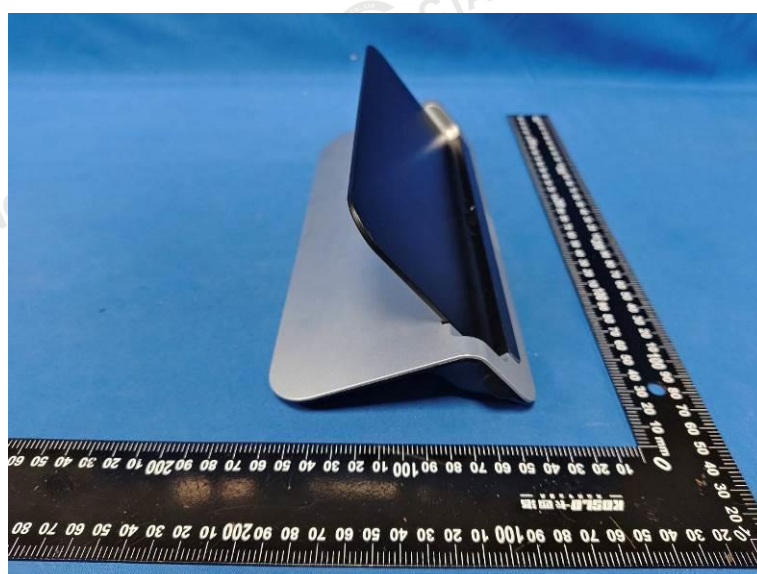
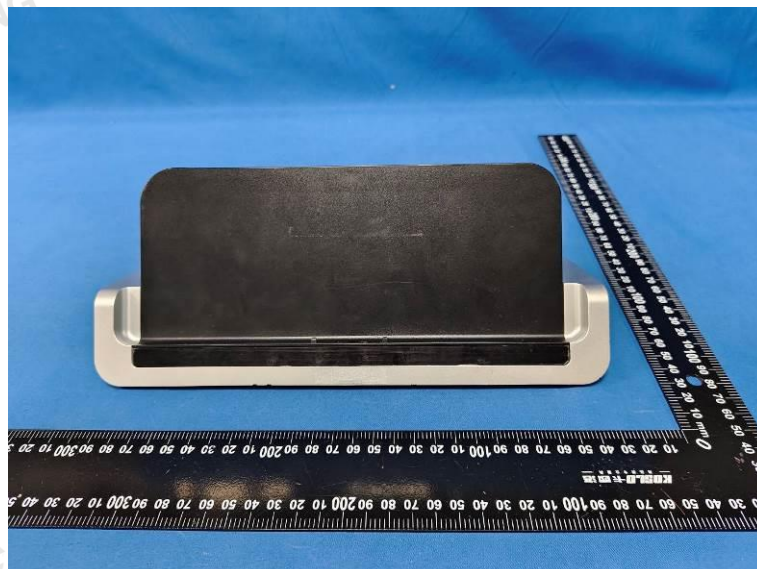
## 6 PHOTOS OF THE EUT



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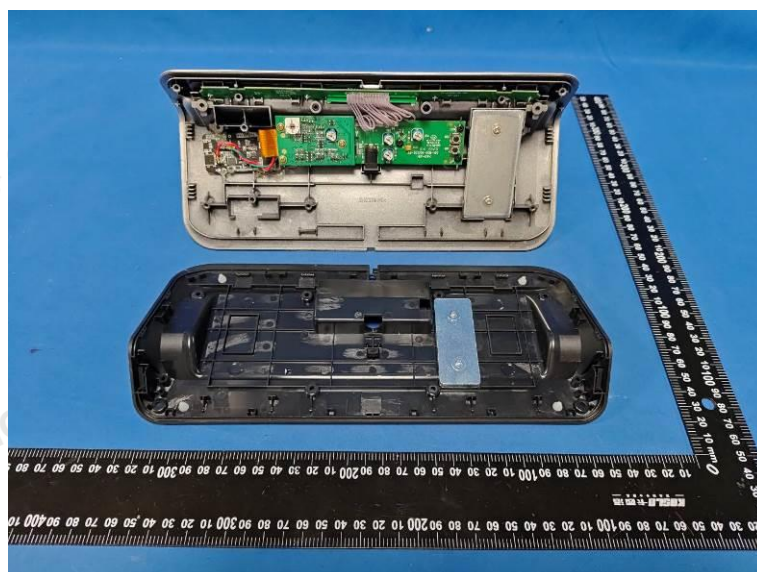
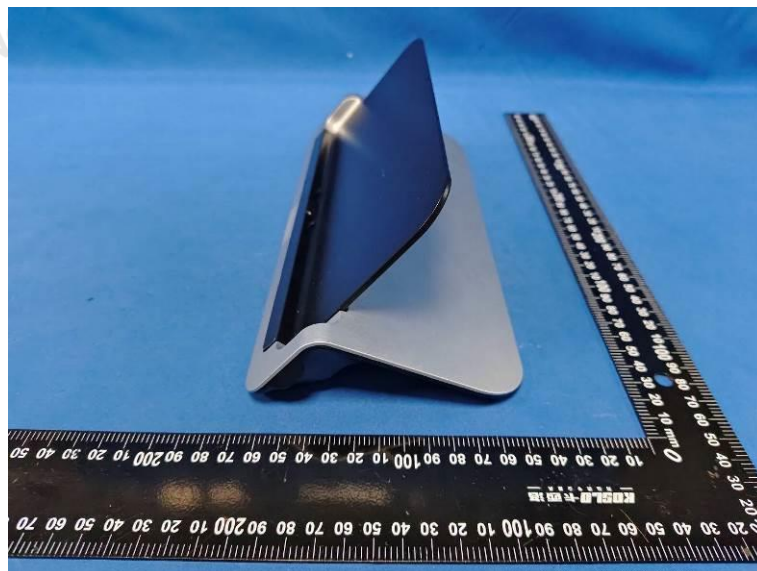
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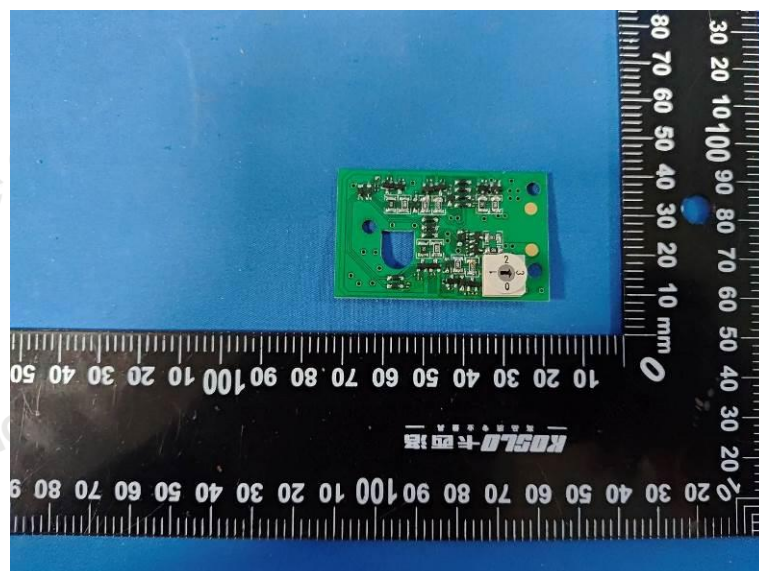
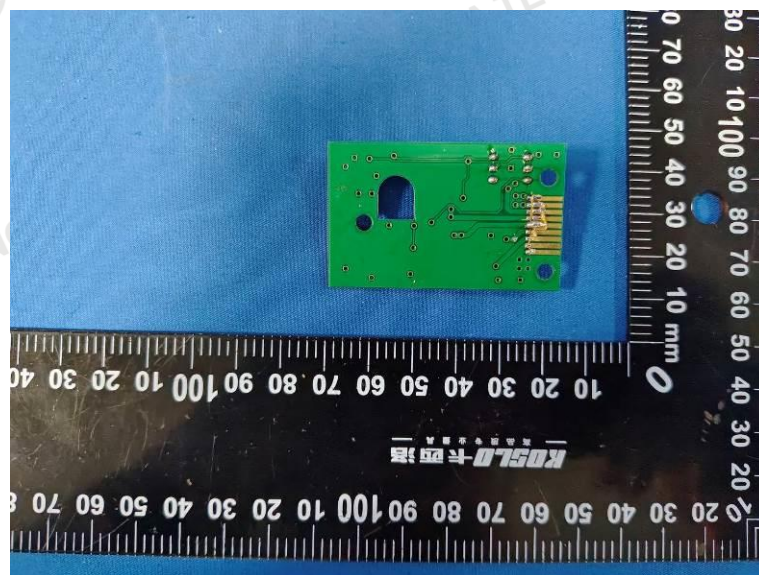
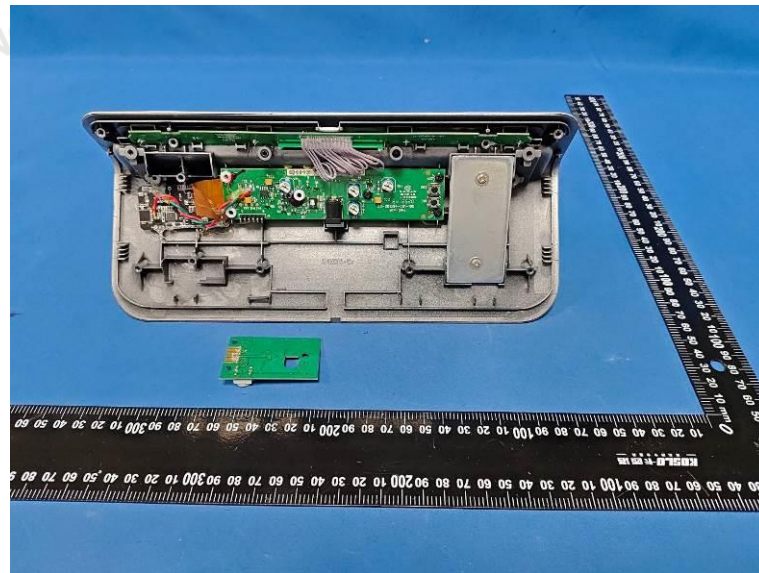
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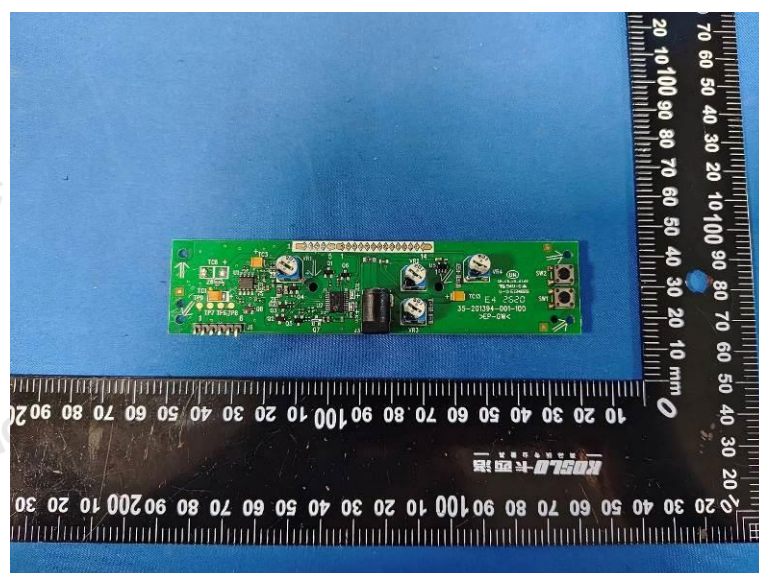
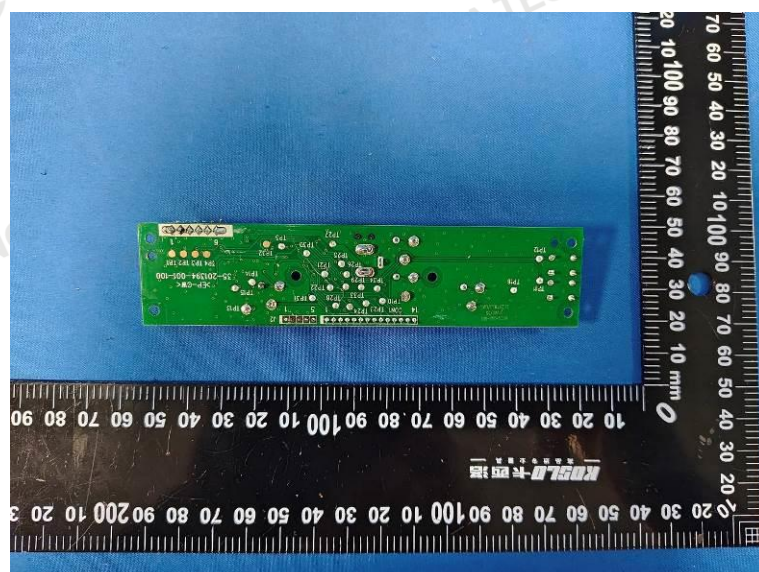
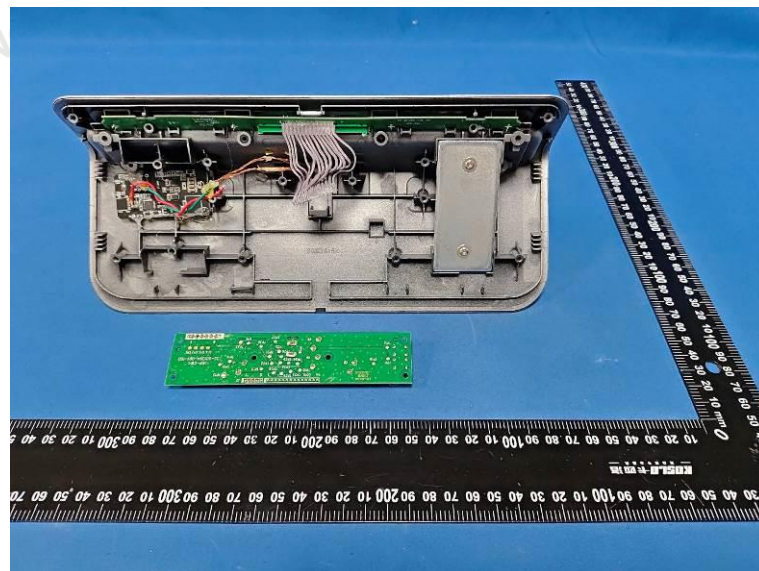
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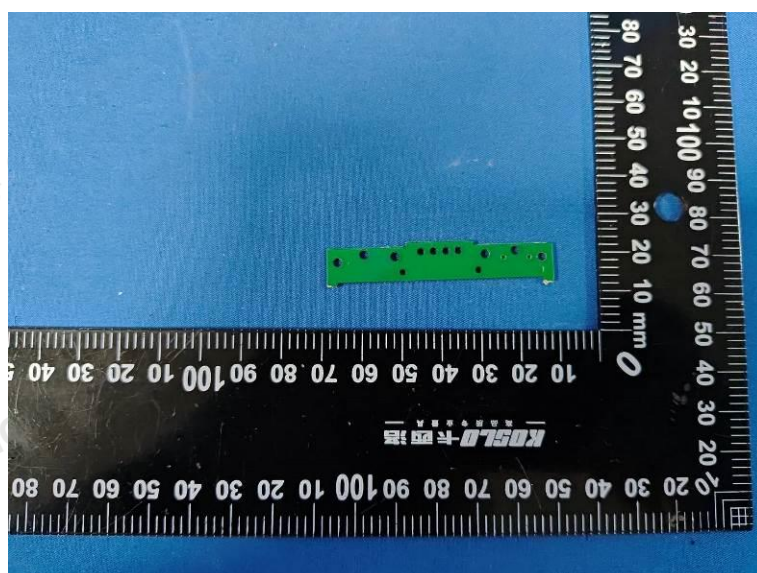
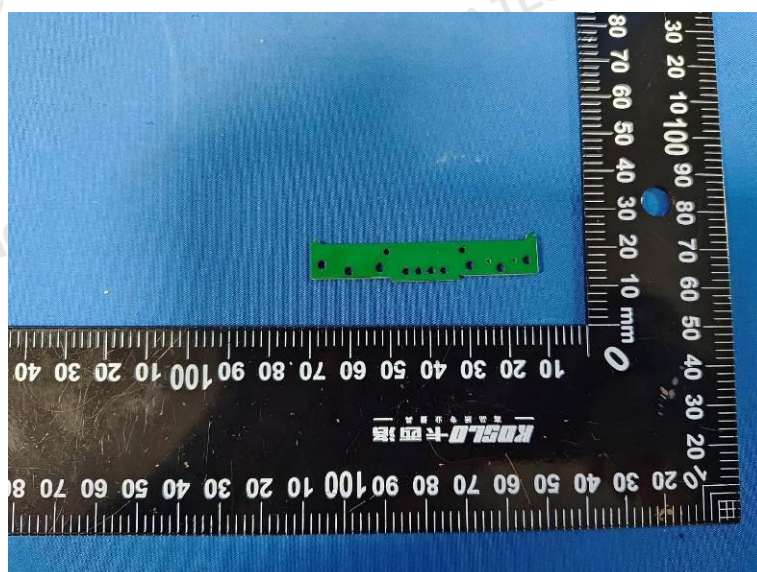
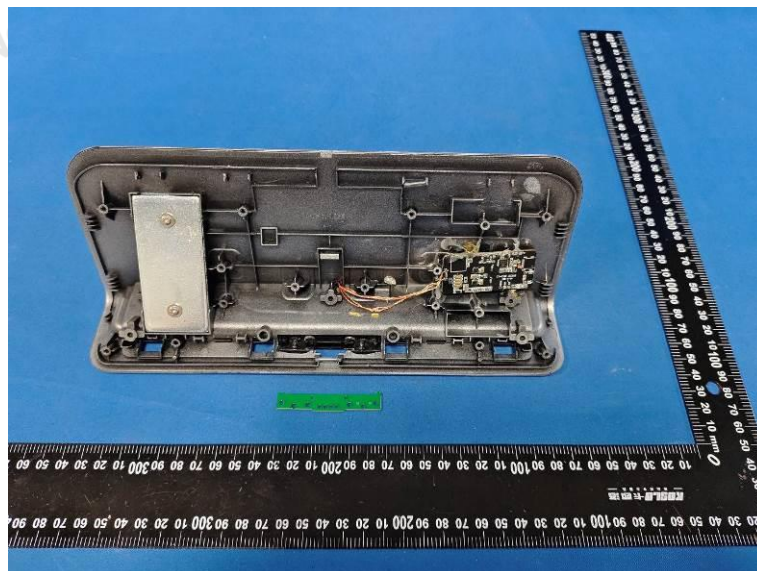
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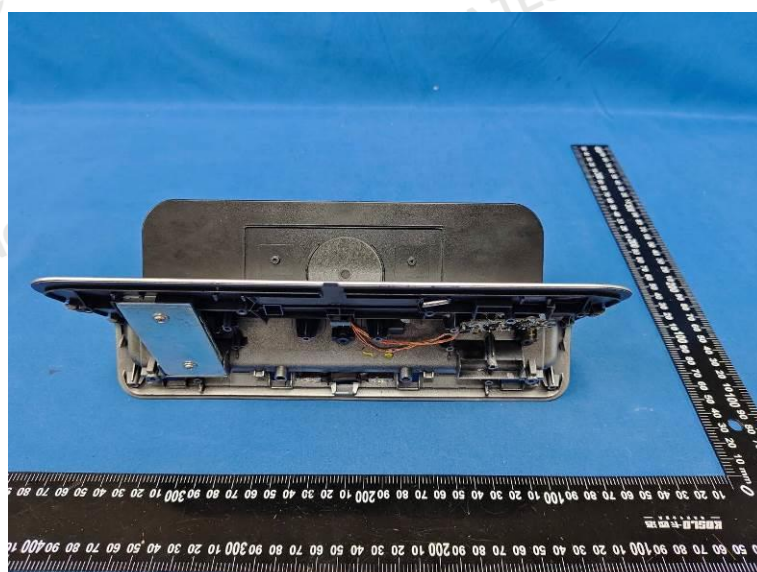
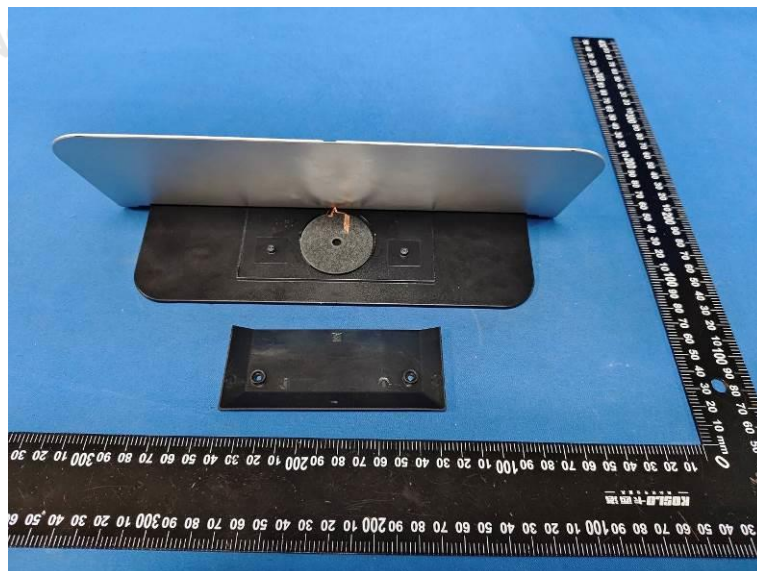
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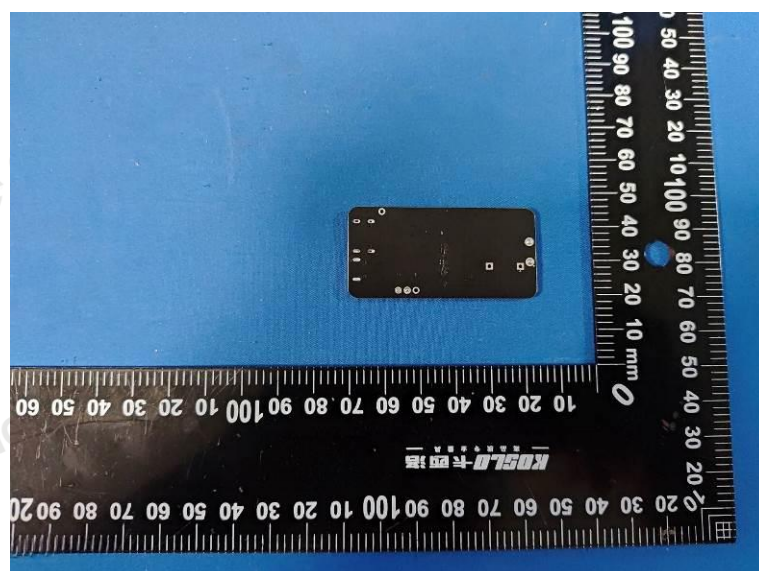
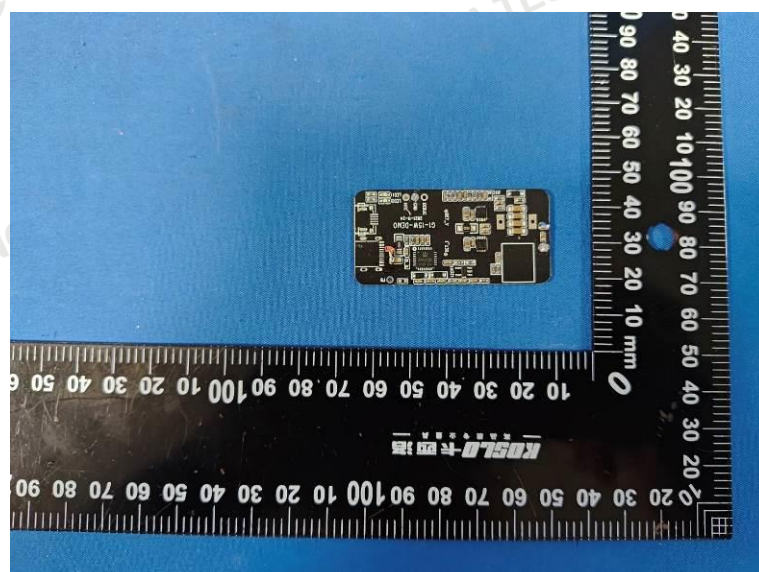
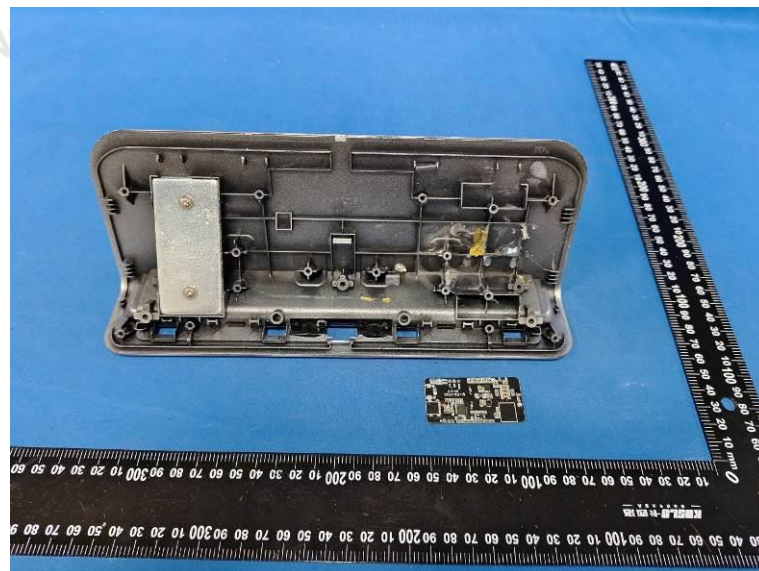
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