

# FCC TEST REPORT

Prepared for :

**EDA Technology Shanghai Co.,Ltd**

**Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading  
District, Shanghai, PRC**

**Product Name: ED-HMI3010**

**Trade Mark: EDATEC**

**Product Model (S):** ED-HMI3010-215CA, ED-HMI3010-116C,  
ED-HMI3010-116CA, ED-HMI3010-133C,  
ED-HMI3010-133CA, ED-HMI3010-156C,  
ED-HMI3010-156CA, ED-HMI3010-185C,  
ED-HMI3010-185CA, ED-HMI3010-215C

**Date of Test: Dec. 11, 2025 - Mar. 25, 2026**

**Date of Report: Mar. 25, 2026**

**Report Number: HK2512116490-1ER**

Prepared By :

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

**1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,  
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**



# TEST REPORT VERIFICATION

Applicant : EDA Technology Shanghai Co.,Ltd

Address : Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Manufacturer : EDA Technology Shanghai Co.,Ltd

Address : Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Product Name : ED-HMI3010

(A) Product Model : ED-HMI3010-215CA  
ED-HMI3010-116C, ED-HMI3010-116CA, ED-HMI3010-133C,  
(B) Series Model : ED-HMI3010-133CA, ED-HMI3010-156C, ED-HMI3010-156CA,  
ED-HMI3010-185C, ED-HMI3010-185CA, ED-HMI3010-215C

(C) Power Supply : DC 12V From Adapter with AC 100-240V, 50/60Hz

**Standards** ..... FCC Part 15 Subpart B  
ANSI C63.4

This device described above has been tested by HUAKE, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Test Result ..... **Pass**

Date of Test: Dec. 11, 2025 - Mar. 25, 2026

Prepared by: Kevin Pan  
Project Engineer

Reviewed by: Silver Wong  
Project Supervisor

Approved by: Jason Zhou  
Technical Director

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**\*\* Issued History \*\***

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	2026/03/25	Jason Zhou



### 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part 15 Subpart B ANSI C63.4	Conducted Emission	Class A	PASS	
	Radiated Emission	Class A	PASS	

**NOTE:**

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

**1.1 TEST FACILITY**

Shenzhen HUAK Testing Technology Co., Ltd.  
 Add. : 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

**1.2 MEASUREMENT UNCERTAINTY**

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

**A. Conducted Measurement :**

Measurement Frequency Range	Uncertainty	NOTE
150kHz ~ 30MHz	±2.71dB	

**B. Radiated Measurement :**

Measurement Frequency Range	Uncertainty	NOTE
30 ~ 1000MHz	±3.90dB	
1 ~ 6GHz	±4.28dB	



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Product Name	ED-HMI3010	
Product Model	ED-HMI3010-215CA	
Series Model	ED-HMI3010-116C, ED-HMI3010-116CA, ED-HMI3010-133C, ED-HMI3010-133CA, ED-HMI3010-156C, ED-HMI3010-156CA, ED-HMI3010-185C, ED-HMI3010-185CA, ED-HMI3010-215C	
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: ED-HMI3010-215CA	
Product Description	The EUT is a ED-HMI3010.	
	Operating frequency:	N/A
	Connecting I/O port:	N/A
Power Source	DC Voltage	
Power Rating	DC 12V From Adapter with AC 100-240V, 50/60Hz	

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## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Working

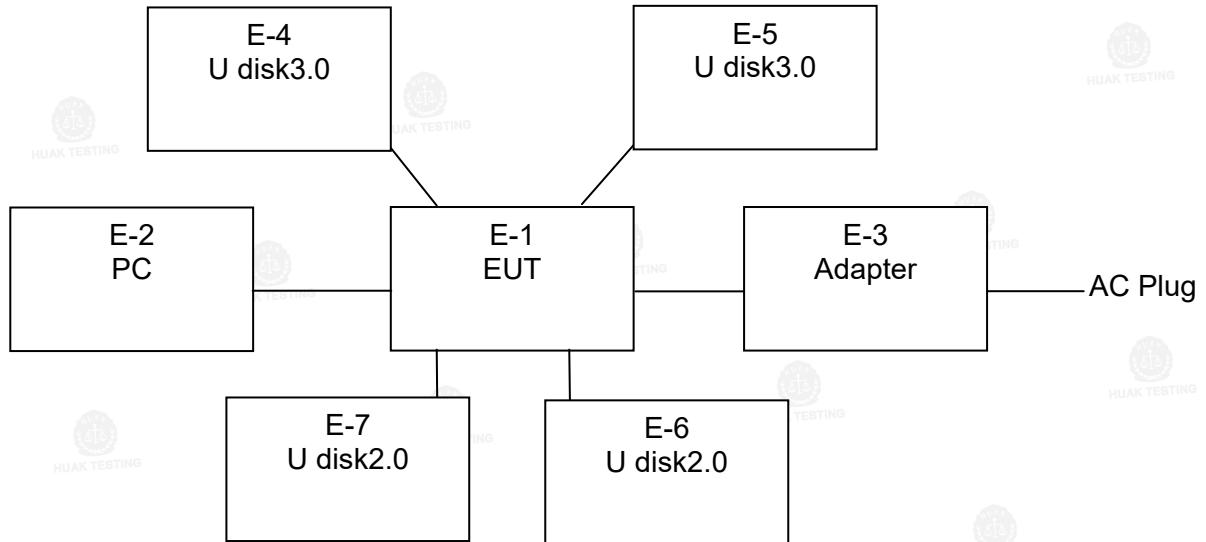
For Conducted Test	
Final Test Mode	Description
Mode 1	Working

For Radiated Test	
Final Test Mode	Description
Mode 1	Working



### 2.3 DESCRIPTION OF TEST SETUP

Mode 1:



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2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Series No.	Note
E-1	ED-HMI3010	EDATEC	ED-HMI3010-215CA	N/A	EUT
E-2	PC	Lenovo	ThinkPad E14Gen5	N/A	
E-3	Adapter	N/A	KSA-50W— 120400D5	N/A	
E-4	U disk3.0	N/A	N/A	N/A	
E-5	U disk3.0	N/A	N/A	N/A	
E-6	U disk2.0	N/A	N/A	N/A	
E-7	U disk2.0	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



**2.5 MEASUREMENT INSTRUMENTS LIST**

Item	Test Equipment	Manufacturer	Type No.	Serial No.	Calibration Date	Cal. Due
1.	L.I.S.N.	R&S	ENV216	HKE-002	2026.02.11	2027.02.10
2.	L.I.S.N.	R&S	ENV216	HKE-059	2026.02.04	2027.02.03
3.	EMI Test Receiver	R&S	ESR-7	HKE-005	2026.02.06	2027.02.05
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	2026.02.06	2027.02.05
5.	Preamplifier	Schwarzbeck	EMC05184 5S	HKE-006	2026.02.06	2027.02.05
6.	Preamplifier	Schwarzbeck	BBV 9745	HKE-168	2026.02.04	2027.02.03
7.	6d Attenuator	Pasternack	6db	HKE-185	2026.02.06	2027.02.05
8.	EMI Test Receiver	R&S	ESR-7	HKE-161	2026.02.06	2027.02.05
9.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2026.02.06	2028.02.05
10.	Loop Antenna	COM-POWER	AL-130R	HKE-014	2026.02.06	2028.02.05
11.	Horn Antenna	Schwarzbeck	9120D	HKE-013	2026.02.06	2028.02.05
12.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
13.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/

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### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150kHz~30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.5	79.00	66.00	66 ~ 56 *	56 ~ 46 *
0.50 ~ 5.0	73.00	60.00	56.00	46.00
5.0 ~ 30.0	73.00	60.00	60.00	50.00

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

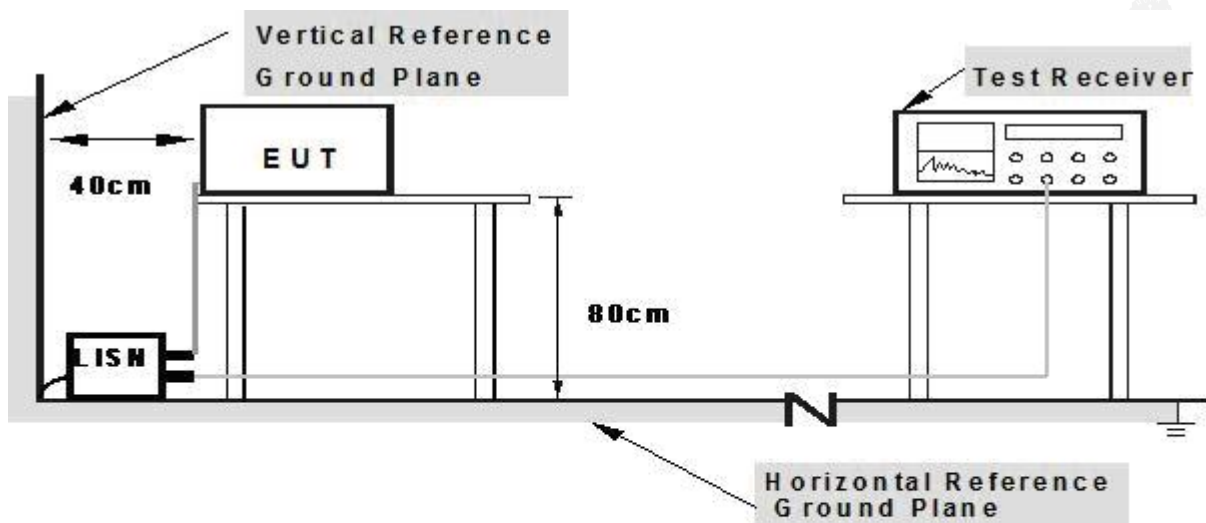
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 TEST SETUP



- Note: 1. Support units were connected to second LISN.**
- 2. Both of LISN's (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

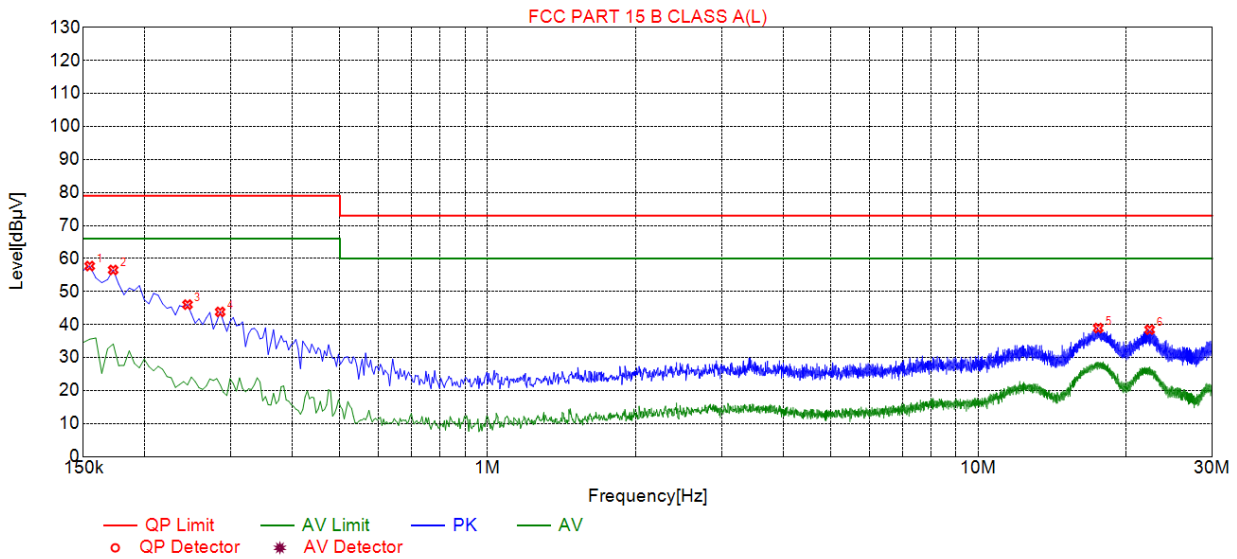
### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.1.5 TEST RESULTS

EUT :	ED-HMI3010	Model Name. :	ED-HMI3010-215CA
Temperature :	23.4℃	Relative Humidity :	50%
Pressure :	1010 hPa	Test Date :	2026-03-16
Test Mode :	Mode 1	Polarization :	L
Test Voltage :	DC 12V From Adapter		



Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.1545	57.72	19.56	79.00	21.28	38.16	PK	L
2	0.1725	56.54	19.67	79.00	22.46	36.87	PK	L
3	0.2445	46.04	19.83	79.00	32.96	26.21	PK	L
4	0.2850	43.83	19.84	79.00	35.17	23.99	PK	L
5	17.5650	38.93	22.43	73.00	34.07	16.50	PK	L
6	22.3575	38.46	23.63	73.00	34.55	14.82	PK	L

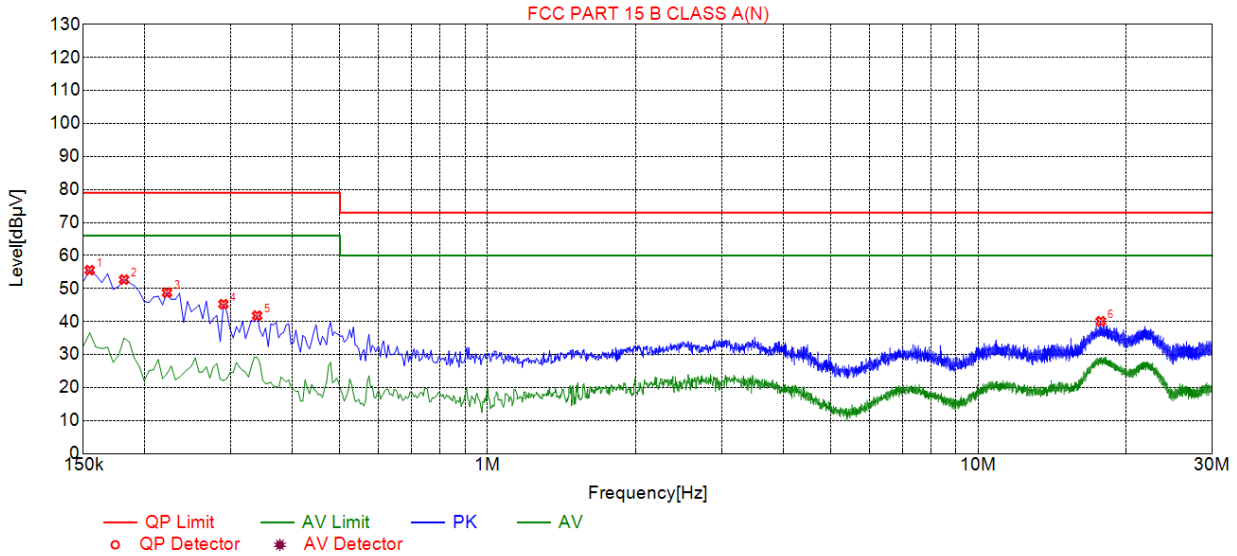
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



EUT :	ED-HMI3010	Model Name. :	ED-HMI3010-215CA
Temperature :	23.4℃	Relative Humidity :	50%
Pressure :	1010 hPa	Test Date :	2026-03-16
Test Mode :	Mode 1	Polarization :	N
Test Voltage :	DC 12V From Adapter		



Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.1545	55.56	19.63	79.00	23.44	35.93	PK	N
2	0.1815	52.71	19.66	79.00	26.29	33.05	PK	N
3	0.2220	48.76	19.65	79.00	30.24	29.11	PK	N
4	0.2895	45.27	19.66	79.00	33.73	25.61	PK	N
5	0.3390	41.80	19.68	79.00	37.20	22.12	PK	N
6	17.7720	40.08	22.49	73.00	32.92	17.59	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The tighter limit applies at the band edges.

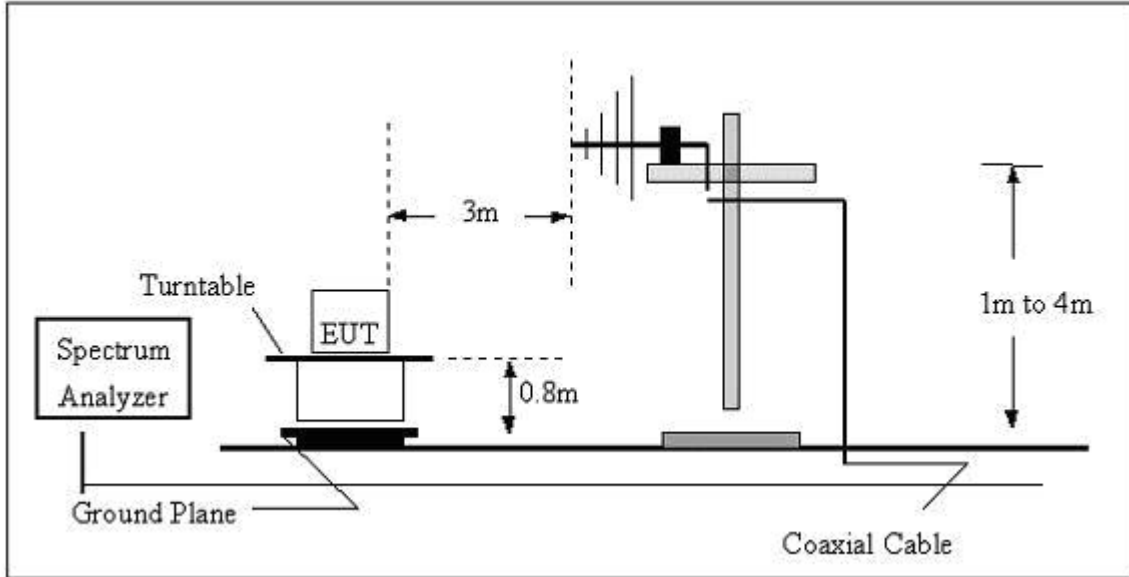
#### 3.2.2 TEST PROCEDURE

- a. The measured distance is 3m.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

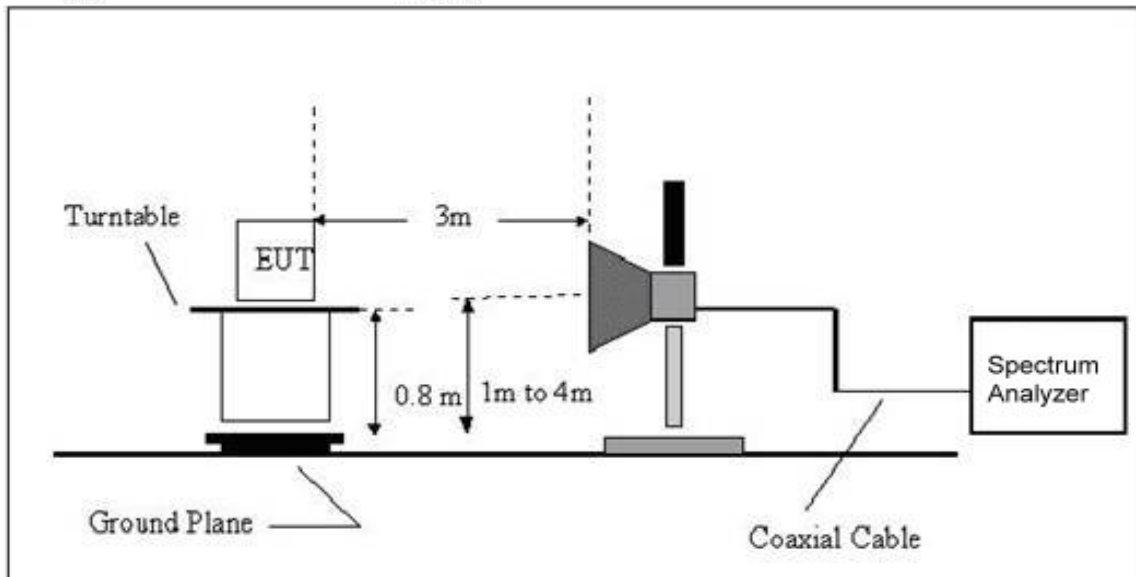


### 3.2.3 TEST SETUP

#### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



#### (B) Radiated Emission Test Set-Up Frequency Above 1GHz



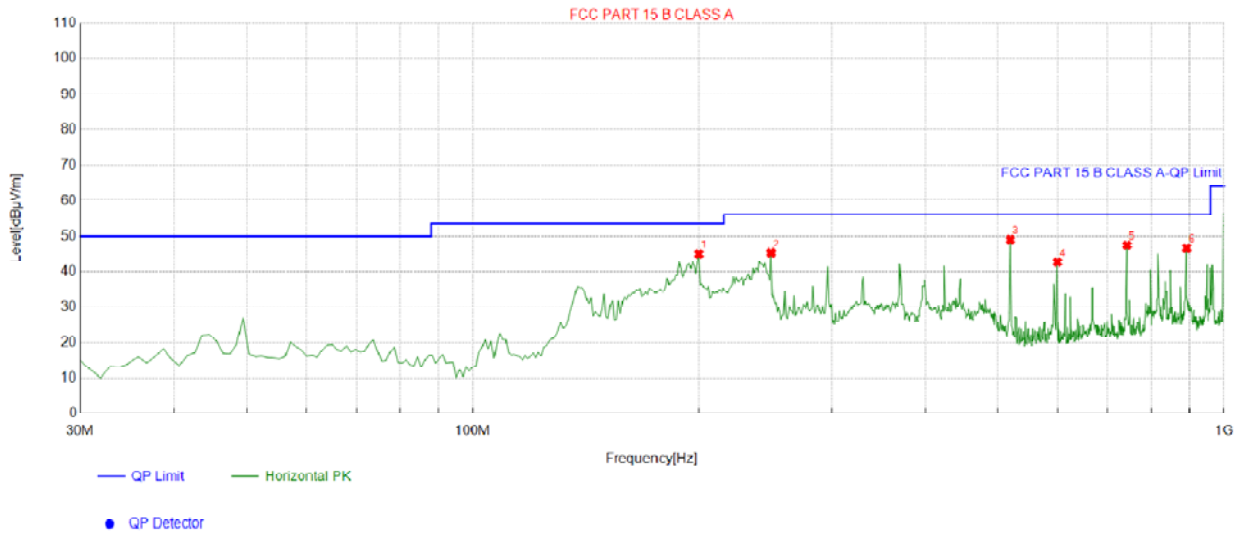
### 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.5 TEST RESULTS(30MHz~1000MHz)

EUT :	ED-HMI3010	Model Name :	ED-HMI3010-215CA
Temperature :	23.4℃	Relative Humidity :	50%
Pressure :	1010 hPa	Test Date :	2026-03-16
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 12V From Adapter		



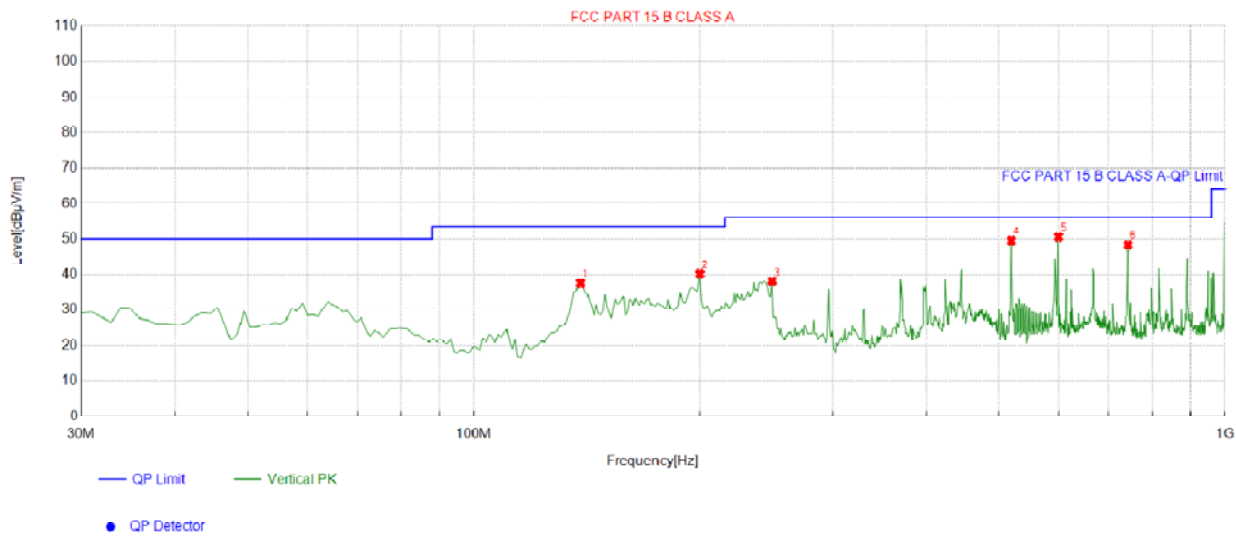
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	199.9199	-15.09	60.07	44.98	53.50	8.52	100	189	Horizontal
2	249.4394	-13.41	58.73	45.32	56.00	10.68	100	315	Horizontal
3	519.3694	-7.52	56.57	49.05	56.00	6.95	100	326	Horizontal
4	599.9600	-5.33	48.03	42.70	56.00	13.30	100	85	Horizontal
5	742.6927	-3.41	50.93	47.52	56.00	8.48	100	14	Horizontal
6	891.2513	-1.49	48.13	46.64	56.00	9.36	100	132	Horizontal

Final Data List

Remark: Factor = Cable loss + Antenna factor – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level;



EUT :	ED-HMI3010	Model Name :	ED-HMI3010-215CA
Temperature :	23.4°C	Relative Humidity :	50%
Pressure :	1010 hPa	Test Date :	2026-03-16
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 12V From Adapter		



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	138.7487	-17.98	55.53	37.55	53.50	15.95	100	103	Vertical
2	199.9199	-15.09	55.35	40.26	53.50	13.24	100	52	Vertical
3	249.4394	-13.41	51.51	38.10	56.00	17.90	100	193	Vertical
4	519.3694	-7.52	57.07	49.55	56.00	6.45	100	16	Vertical
5	599.9600	-5.33	55.86	50.53	56.00	5.47	100	16	Vertical
6	742.6927	-3.41	51.83	48.42	56.00	7.58	100	157	Vertical

Final Data List

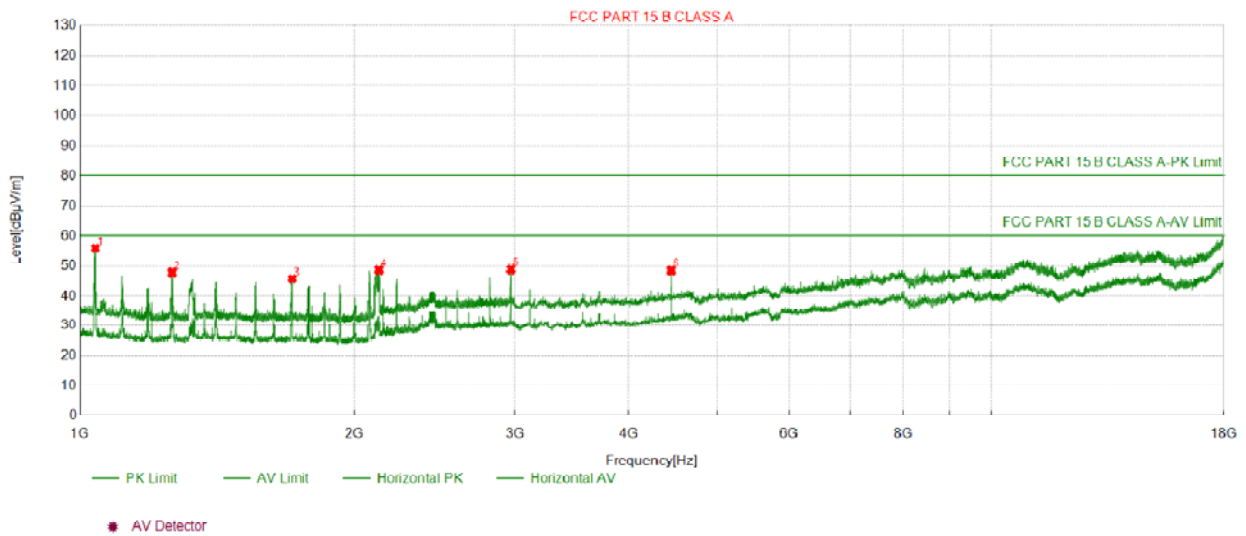
Remark: Factor = Cable loss + Antenna factor – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level;

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3.2.6 TEST RESULTS(Above 1GHz)

EUT :	ED-HMI3010	Model Name :	ED-HMI3010-215CA
Temperature :	23.4℃	Relative Humidity :	50%
Pressure :	1010 hPa	Test Date :	2026-03-16
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 12V From Adapter		



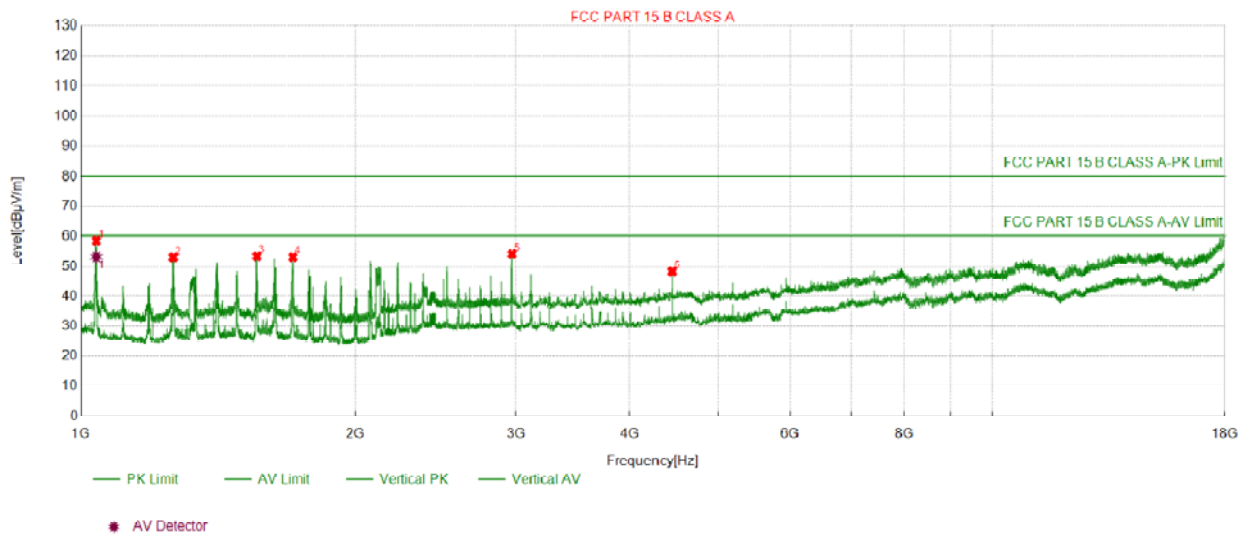
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	PK Level [dBµV/m]	Factor [dB]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1039.604	74.46	55.85	-18.61	80.00	24.15	100	211	Horizontal
2	1262.226	67.14	47.85	-19.29	80.00	32.15	100	118	Horizontal
3	1709.271	64.30	45.81	-18.49	80.00	34.19	100	316	Horizontal
4	2128.113	65.04	48.69	-16.35	80.00	31.31	100	93	Horizontal
5	2969.997	62.29	48.85	-13.44	80.00	31.15	100	93	Horizontal
6	4455.146	59.25	48.55	-10.70	80.00	31.45	100	179	Horizontal

Final Data List

Remark: Factor = Cable loss + Antenna factor – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level;



EUT :	ED-HMI3010	Model Name :	ED-HMI3010-215CA
Temperature :	23.4°C	Relative Humidity :	50%
Pressure :	1010 hPa	Test Date :	2026-03-16
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 12V From Adapter		



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	PK Level [dBµV/m]	Factor [dB]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1039.404	77.13	58.52	-18.61	80.00	21.48	100	322	Vertical
2	1262.426	72.38	53.09	-19.29	80.00	26.91	100	141	Vertical
3	1559.456	72.21	53.48	-18.73	80.00	26.52	100	25	Vertical
4	1707.671	71.64	53.15	-18.49	80.00	26.85	100	360	Vertical
5	2970.197	67.66	54.22	-13.44	80.00	25.78	100	58	Vertical
6	4455.146	59.11	48.41	-10.70	80.00	31.59	100	214	Vertical

AV Final Data List									
NO	Freq. [MHz]	Factor [dB]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	1039.404	-18.61	53.27	60.00	6.73	100	322	Vertical	

Final Data List

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



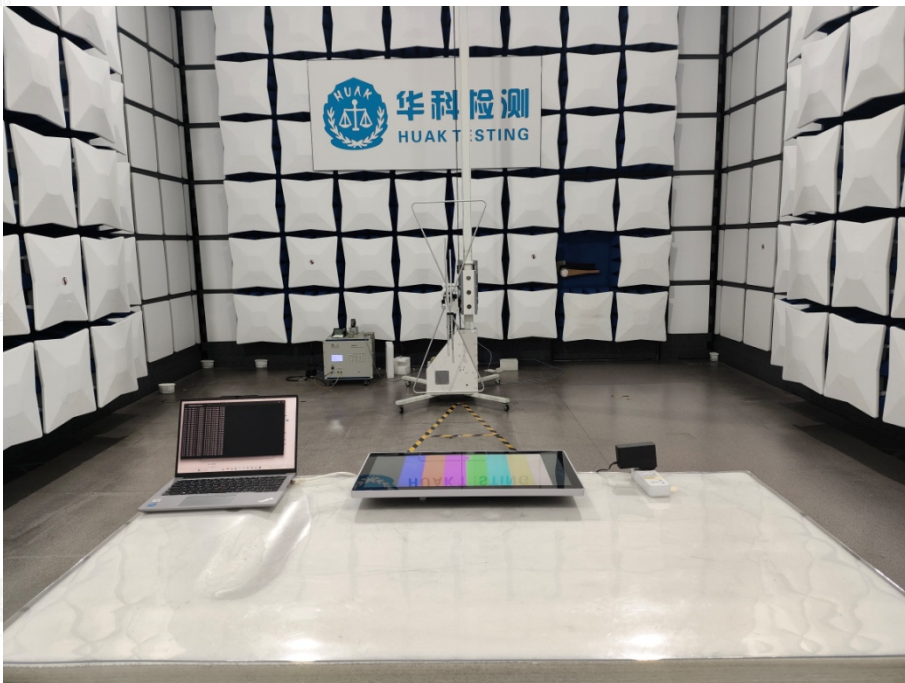
**HUAK TESTING**

## 4. EUT TEST PHOTO

### Conducted Emission



### Radiated Emission



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### ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1



Photo 2



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Photo 3



Photo 4

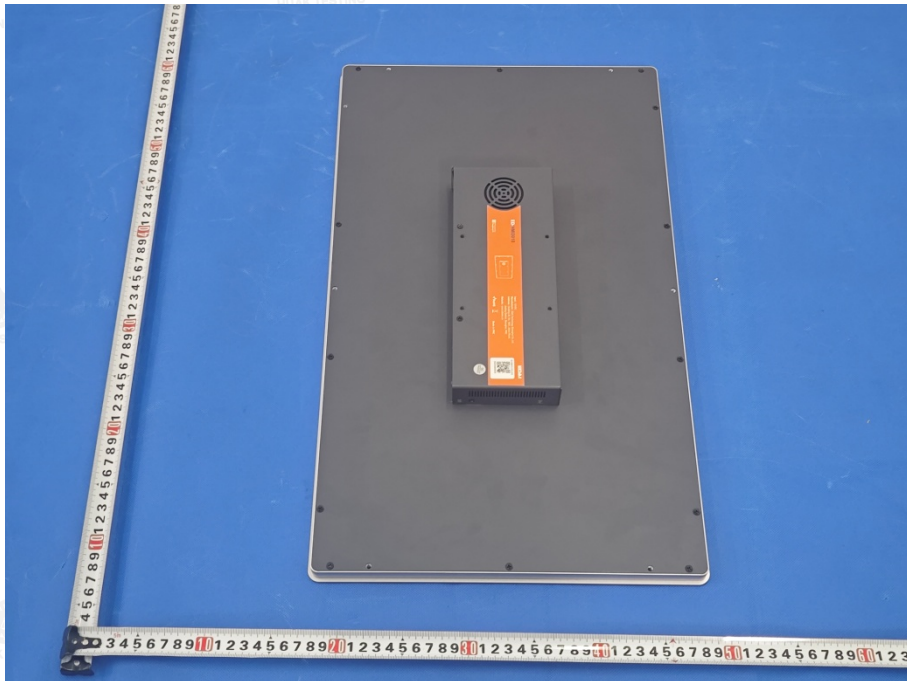


Photo 5



Photo 6



Photo 7



Photo 8

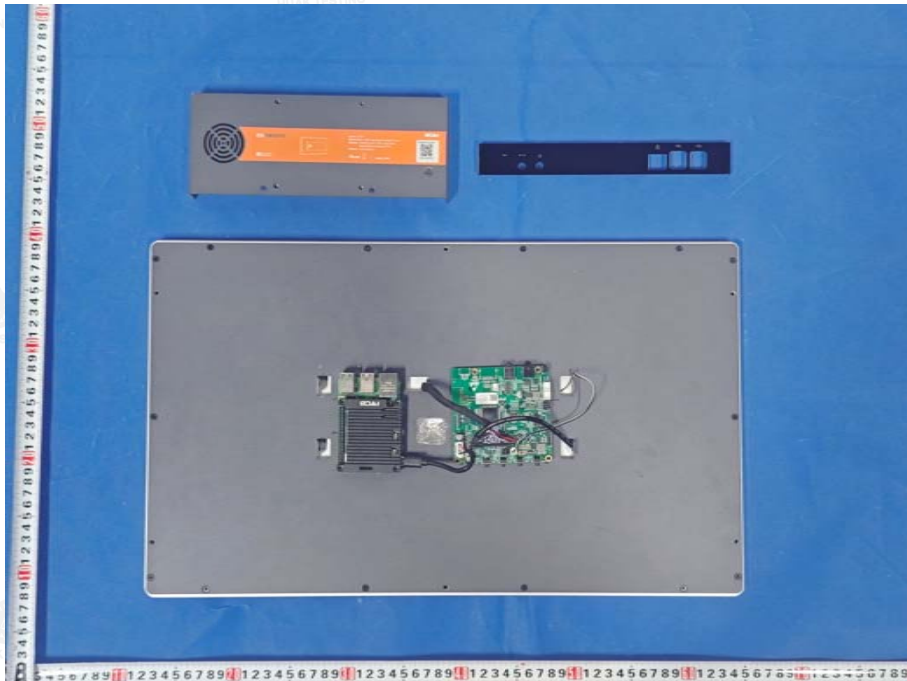


Photo 9

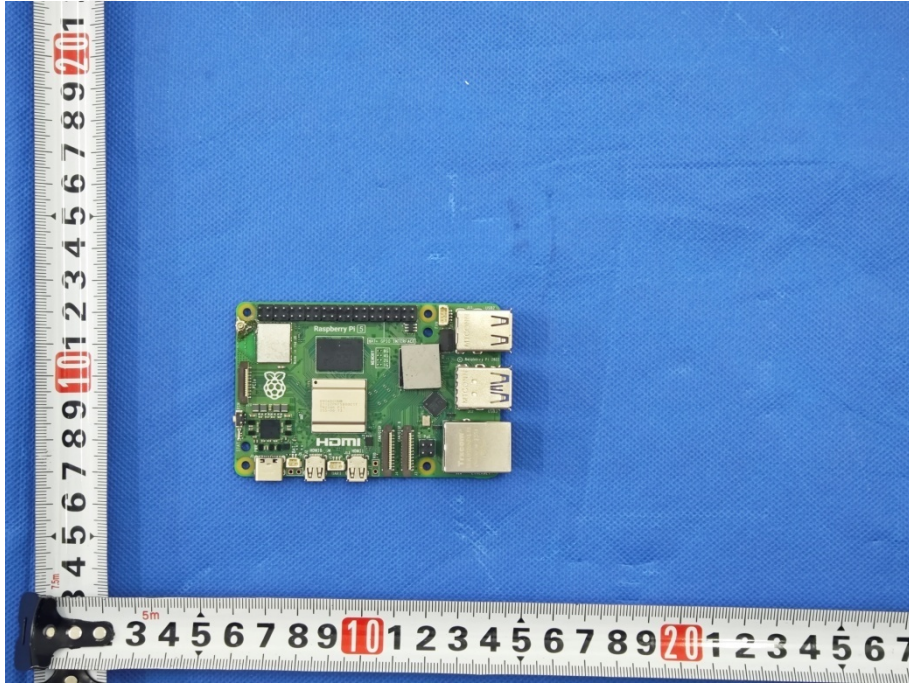


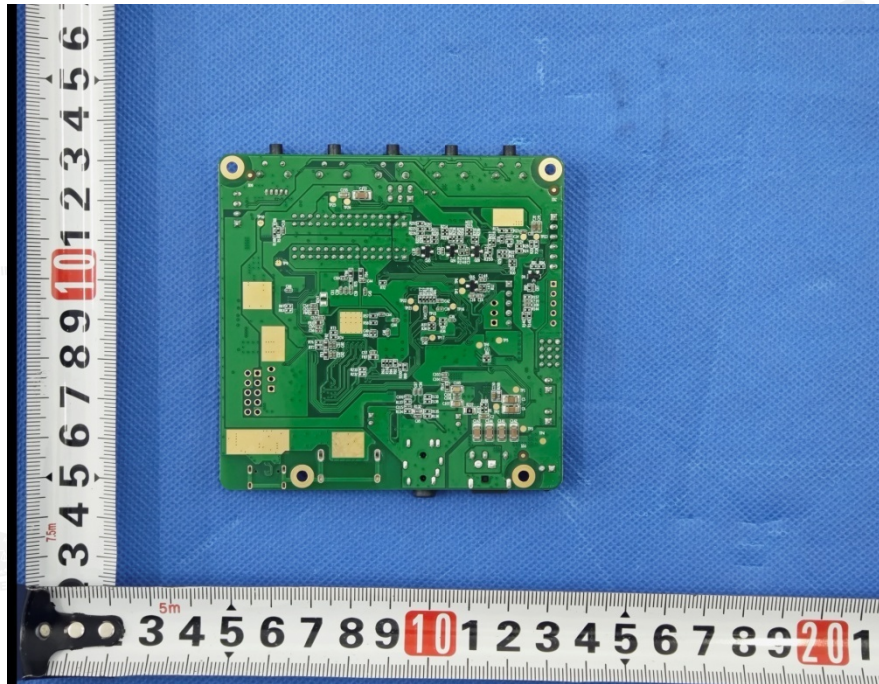
Photo 10



Photo 11



Photo 12



-----End of report-----

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

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