

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-IPC3600

Trade Mark: 

Product Model (S):

**ED-IPC3632, ED-IPC3610, ED-IPC3612,
ED-IPC3613, ED-IPC3614, ED-IPC3620,
ED-IPC3622, ED-IPC3623, ED-IPC3624,
ED-IPC3630, ED-IPC3633, ED-IPC3634,
ED-PAC3610, ED-PAC3612, ED-PAC3613,
ED-PAC3614, ED-PAC3620, ED-PAC3622,
ED-PAC3623, ED-PAC3624, ED-PAC3630,
ED-PAC3632, ED-PAC3633, ED-PAC3634**

Date of Test: Apr. 30, 2025 – Jun. 24, 2025

Date of Report: Jun. 24, 2025

Report Number: HK2504302274-1ER

Prepared By :

Shenzhen HUAK 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-IPC3600

(A) Product Model : ED-IPC3632
ED-IPC3610, ED-IPC3612, ED-IPC3613, ED-IPC3614, ED-IPC3620, ED-IPC3622, ED-IPC3623, ED-IPC3624, ED-IPC3630, ED-IPC3633,

(B) Series Model : ED-IPC3634, ED-PAC3610, ED-PAC3612, ED-PAC3613, ED-PAC3614, ED-PAC3620, ED-PAC3622, ED-PAC3623, ED-PAC3624, ED-PAC3630, ED-PAC3632, ED-PAC3633, ED-PAC3634

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

Standards FCC Part 15 Subpart B
ANSI C63.4:2019

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: Apr. 30, 2025 – Jun. 24, 2025

Prepared by: Kevin Pan
Project Engineer

Reviewed by: Silver Wong
Project Supervisor

Approved by: Jason Zhou
Technical Director

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2025/06/24	Jason Zhou

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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part 15 Subpart B ANSI C63.4:2019	Conducted Emission	Class A (Note 3)	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.
- (3) 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

Testing Laboratory Authorization:
 A2LA Accreditation Code is 4781.01.
 FCC Designation Number is CN1229.
 Canada IC CAB identifier is CN0045.
 CNAS Registration Number is L9589.

1.2 MEASUREMENT UNCERTAINTY

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 %**.

A. Conducted Measurement :

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

B. Radiated Measurement :

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

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	ED-IPC3600				
Product Model	ED-IPC3632				
Series Model	ED-IPC3610, ED-IPC3612, ED-IPC3613, ED-IPC3614, ED-IPC3620, ED-IPC3622, ED-IPC3623, ED-IPC3624, ED-IPC3630, ED-IPC3633, ED-IPC3634, ED-PAC3610, ED-PAC3612, ED-PAC3613, ED-PAC3614, ED-PAC3620, ED-PAC3622, ED-PAC3623, ED-PAC3624, ED-PAC3630, ED-PAC3632, ED-PAC3633, ED-PAC3634				
Model Difference	The main difference between different models is the number of RS232, RS485, DI, DO and CAN interfaces, and the model with the most interfaces is ED-IPC3632.				
Product Description	<p>The EUT is a ED-IPC3600.</p> <table border="1"> <tr> <td>Operating frequency:</td> <td>N/A</td> </tr> <tr> <td>Connecting I/O port:</td> <td>N/A</td> </tr> </table> <p>Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</p>	Operating frequency:	N/A	Connecting I/O port:	N/A
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				

2.2 DESCRIPTION OF TEST MODES

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

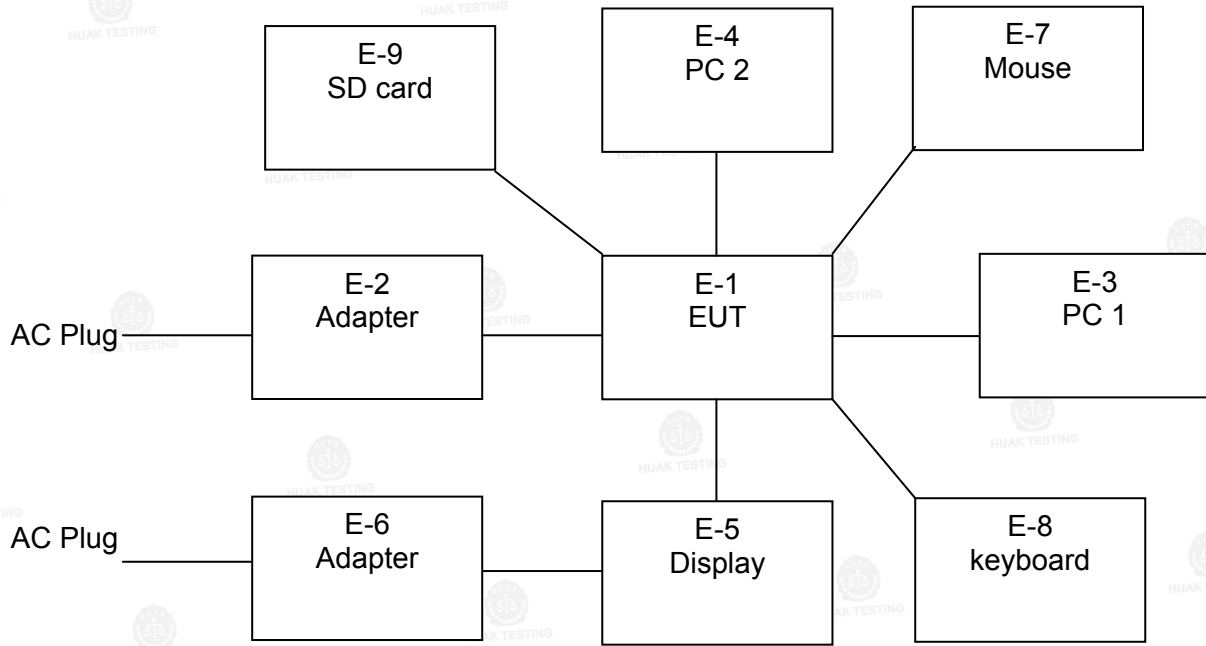
Pretest Mode	Description
Mode 1	Working

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:



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-IPC3600		ED-IPC3632	N/A	EUT
E-2	Adapter	N/A	KSASB0241200200D5	N/A	
E-3	PC 1	Lenovo	ThinkPad E14 Gen5	N/A	
E-4	PC 2	Lenovo	ThinkPad L480	N/A	
E-5	DISPLAY	AOC	U2879VF	N/A	
E-6	Adapter	AOC	ADPC2065	N/A	
E-7	Mouse	N/A	N/A	N/A	
E-8	Keyboard	N/A	N/A	N/A	
E-9	SD card	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	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 19, 2025	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 19, 2025	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 19, 2025	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	1 Year
6.	Preamplifier	EMCI	EMC05184 5S	HKE-006	Feb. 19, 2025	1 Year
7.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	1 Year
8.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	1 Year
9.	6d Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	1 Year
10.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	1 Year
11.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
12.	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
13.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
14.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/

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.

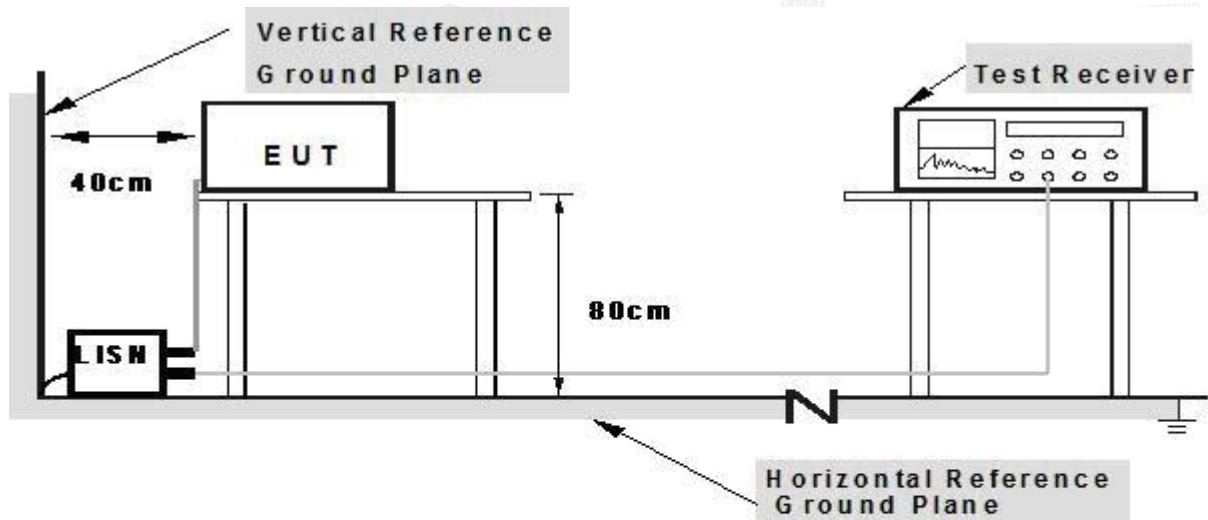
The following table is the setting of the receiver

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 0.4 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.

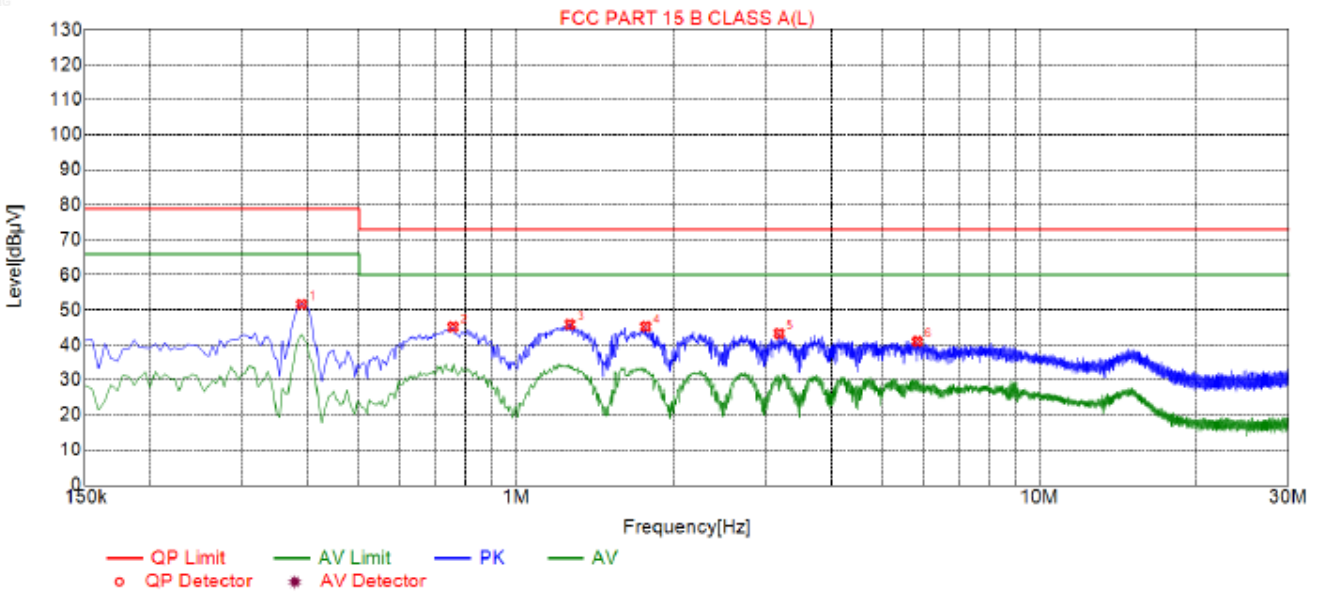
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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-IPC3600	Model Name. :	ED-IPC3632
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-06-18
Test Mode :	Mode 1	Polarization :	L
Test Voltage :	DC 12V From Adapter		



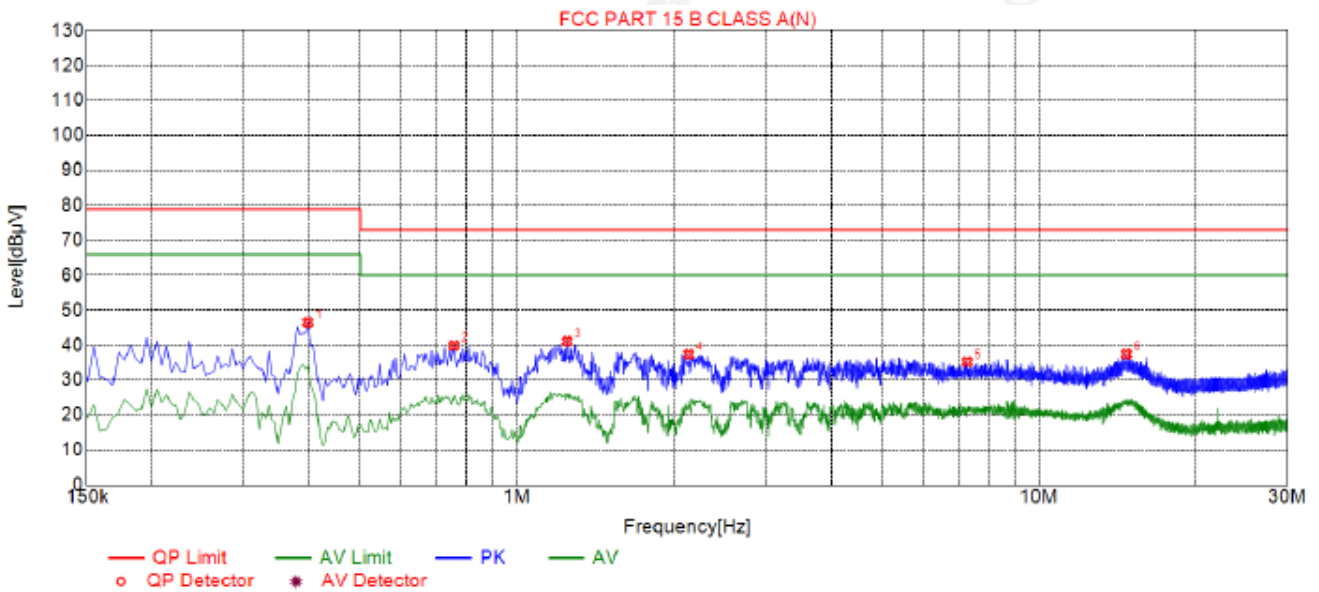
Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.3885	51.64	19.84	79.00	27.36	31.80	PK	L
2	0.7575	45.14	19.67	73.00	27.86	25.47	PK	L
3	1.2660	45.87	19.87	73.00	27.13	26.00	PK	L
4	1.7700	45.23	20.07	73.00	27.77	25.16	PK	L
5	3.1830	43.33	20.29	73.00	29.67	23.04	PK	L
6	5.8515	40.99	20.40	73.00	32.01	20.59	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

EUT :	ED-IPC3600	Model Name. :	ED-IPC3632
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-06-18
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	0.3975	46.49	19.70	79.00	32.51	26.79	PK	N
2	0.7575	39.89	19.76	73.00	33.11	20.13	PK	N
3	1.2480	41.12	19.81	73.00	31.88	21.31	PK	N
4	2.1345	37.39	19.96	73.00	35.61	17.43	PK	N
5	7.2915	35.24	20.54	73.00	37.76	14.70	PK	N
6	14.7120	37.46	21.70	73.00	35.54	15.76	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:

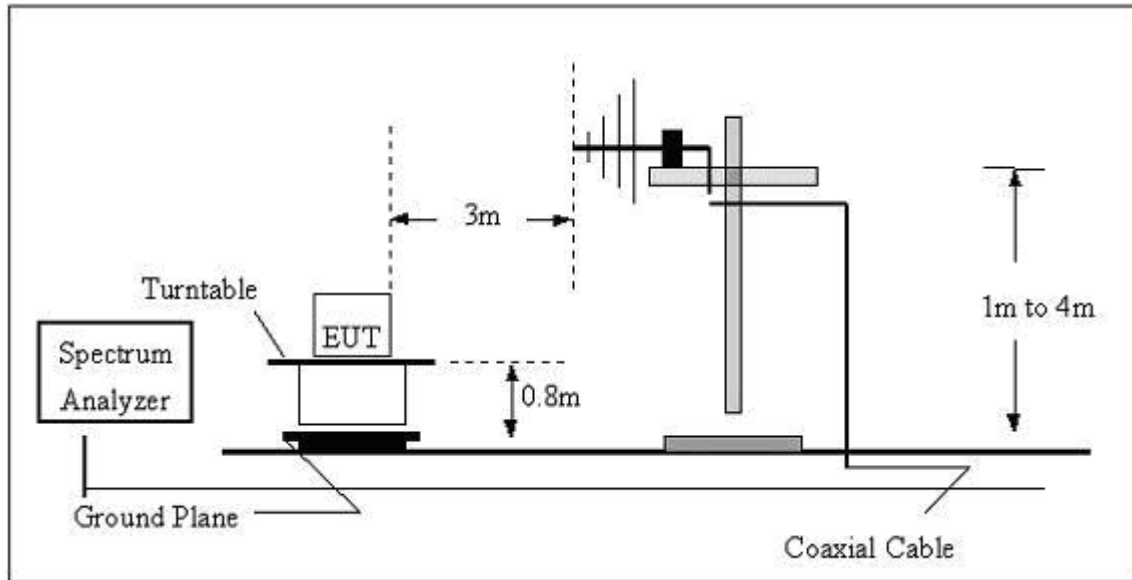
- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

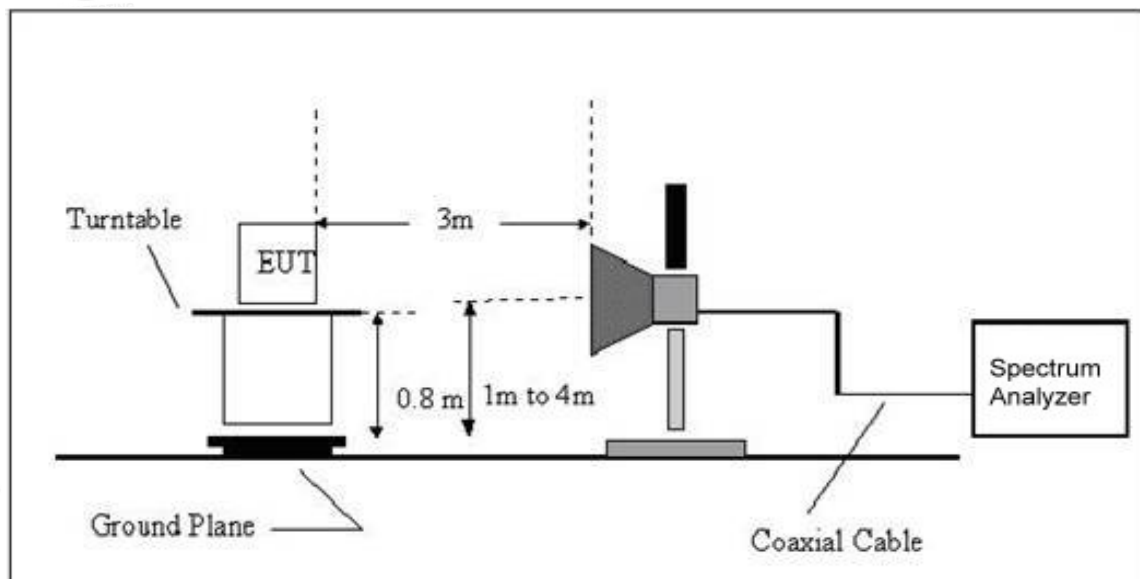
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 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

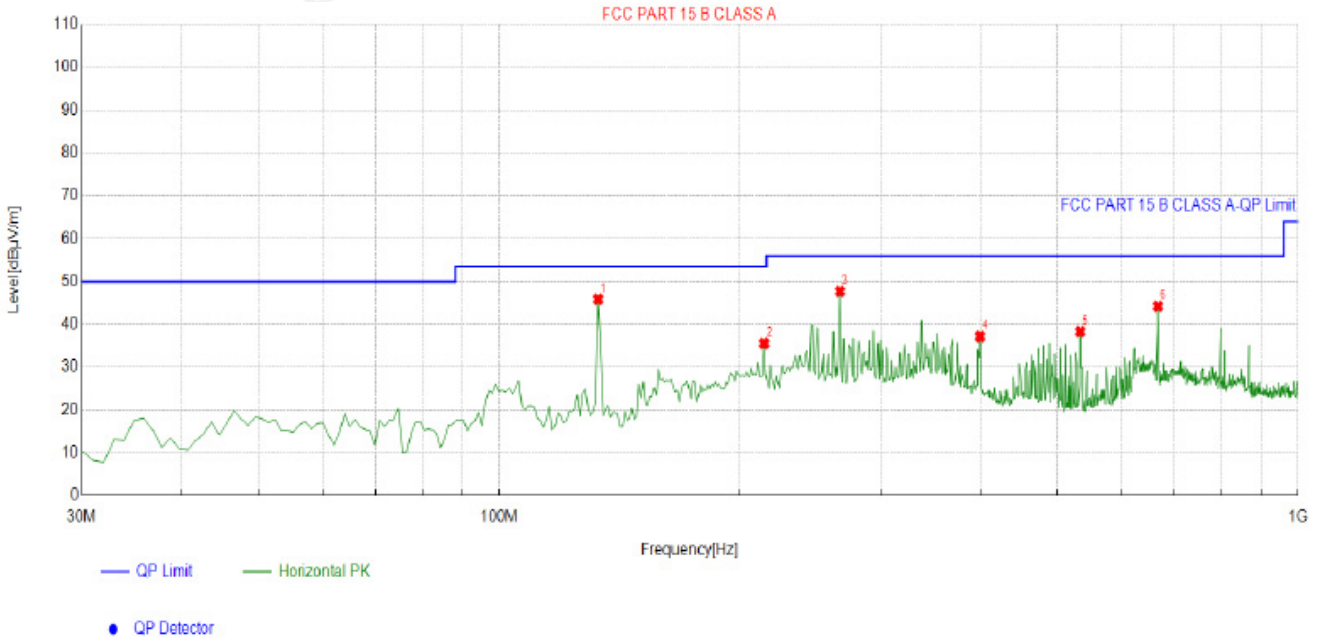


3.2.4 EUT OPERATING CONDITIONS

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

EUT :	ED-IPC3600	Model Name :	ED-IPC3632
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-06-18
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 12V From Adapter		

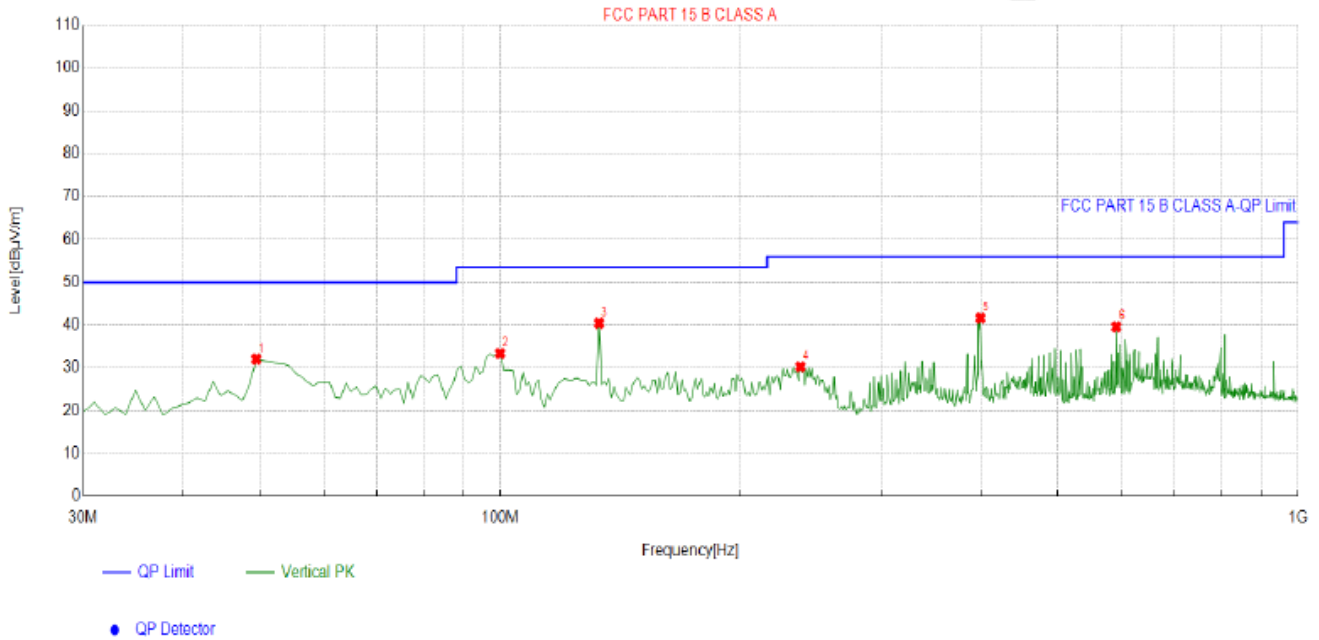


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	132.9229	-17.24	63.07	45.83	53.50	7.67	100	216	Horizontal
2	214.4845	-14.76	50.31	35.55	53.50	17.95	100	84	Horizontal
3	266.9169	-12.87	60.53	47.66	56.00	8.34	100	201	Horizontal
4	399.9399	-9.84	47.01	37.17	56.00	18.83	100	109	Horizontal
5	533.9339	-7.18	45.47	38.29	56.00	17.71	100	319	Horizontal
6	667.9279	-4.52	48.74	44.22	56.00	11.78	100	120	Horizontal

Final Data List

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

EUT :	ED-IPC3600	Model Name :	ED-IPC3632
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-06-18
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 12V From Adapter		



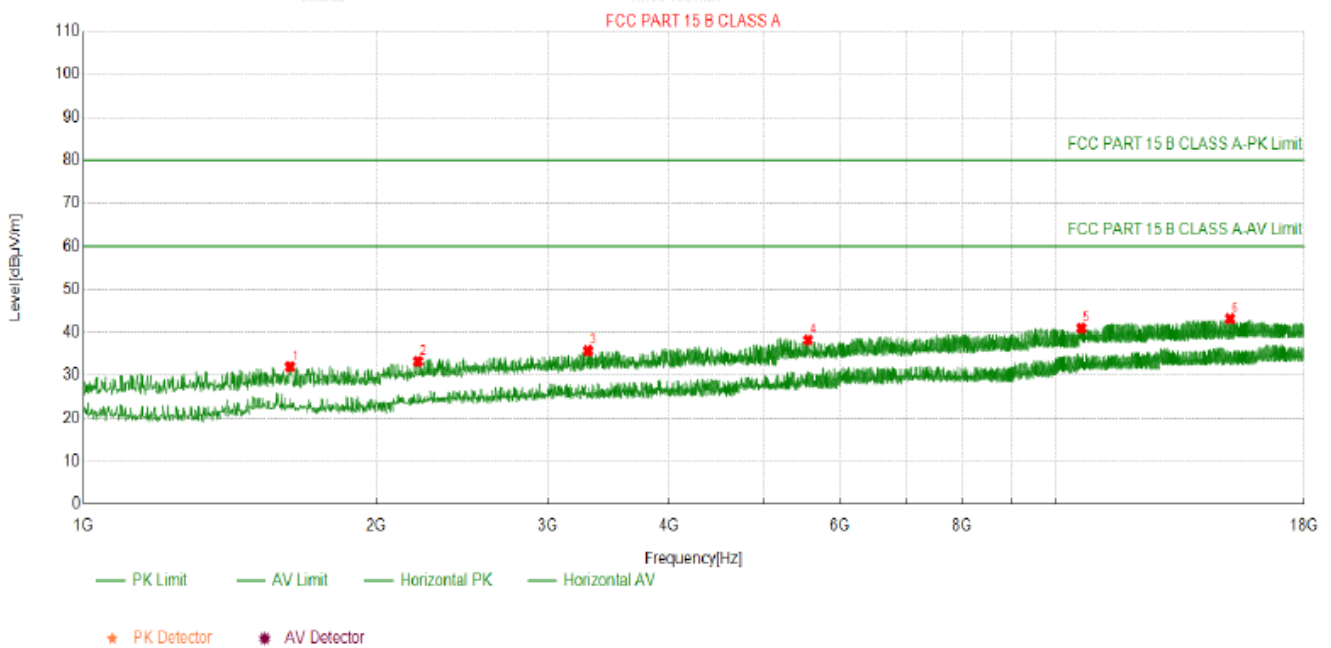
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.4194	-13.14	45.16	32.02	50.00	17.98	100	212	Vertical
2	99.9099	-14.70	48.08	33.38	53.50	20.12	100	271	Vertical
3	132.9229	-17.24	57.68	40.44	53.50	13.06	100	261	Vertical
4	237.7878	-13.77	44.04	30.27	56.00	25.73	100	114	Vertical
5	399.9399	-9.84	51.48	41.64	56.00	14.36	100	191	Vertical
6	592.1922	-5.67	45.24	39.57	56.00	16.43	100	31	Vertical

Final Data List

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

3.2.6 TEST RESULTS(Above 1GHz)

EUT :	ED-IPC3600	Model Name :	ED-IPC3632
Temperature :	23.7 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2025-06-18
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 12V From Adapter		

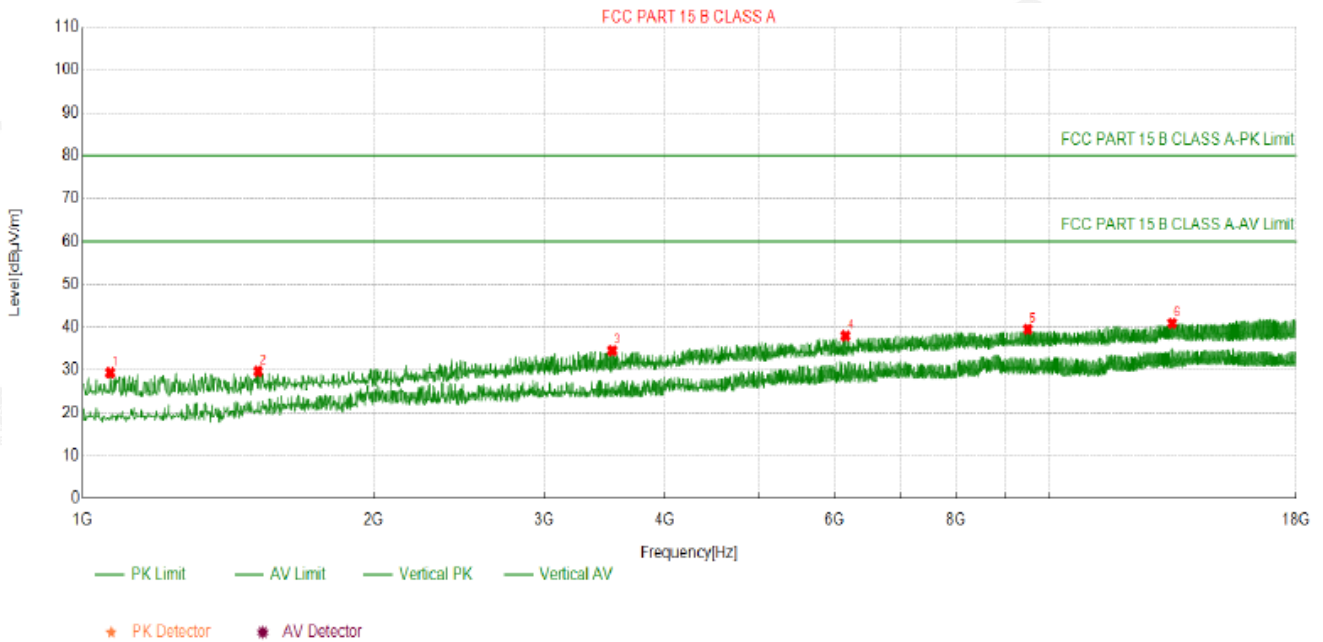


Suspected Data List								
NO.	Freq. [MHz]	PK Level [dBµV/m]	Factor [dB]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1630.763	31.97	-20.39	80.00	48.03	100	350	Horizontal
2	2207.120	33.24	-17.82	80.00	46.76	100	270	Horizontal
3	3300.330	35.71	-14.44	80.00	44.29	100	290	Horizontal
4	5561.556	38.20	-9.17	80.00	41.80	100	220	Horizontal
5	10616.16	40.99	0.31	80.00	39.01	100	150	Horizontal
6	15099.51	43.18	6.00	80.00	36.82	100	250	Horizontal

Final Data List

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

EUT :	ED-IPC3600	Model Name :	ED-IPC3632
Temperature :	23.7 °C	Relative Humidity :	51%
Pressure :	1010 hPa	Test Date :	2025-06-18
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 12V From Adapter		



Suspected Data List								
NO.	Freq. [MHz]	PK Level [dBµV/m]	Factor [dB]	PK Limit [dBµV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1068.006	29.38	-21.72	80.00	50.62	100	80	Vertical
2	1518.551	29.70	-20.46	80.00	50.30	100	60	Vertical
3	3531.553	34.55	-14.08	80.00	45.45	100	250	Vertical
4	6153.215	38.00	-7.73	80.00	42.00	100	190	Vertical
5	9499.149	39.50	-1.04	80.00	40.50	100	250	Vertical
6	13395.93	40.91	3.43	80.00	39.09	100	200	Vertical

Final Data List

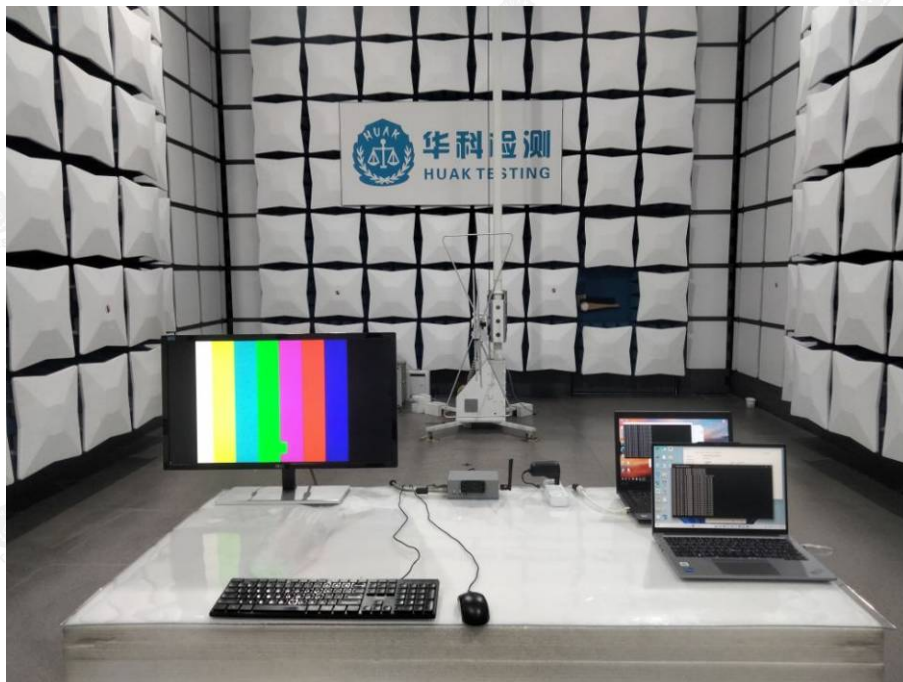
Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

4. EUT TEST PHOTO

Conducted Emission



Radiated Emission



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ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1



Photo 2

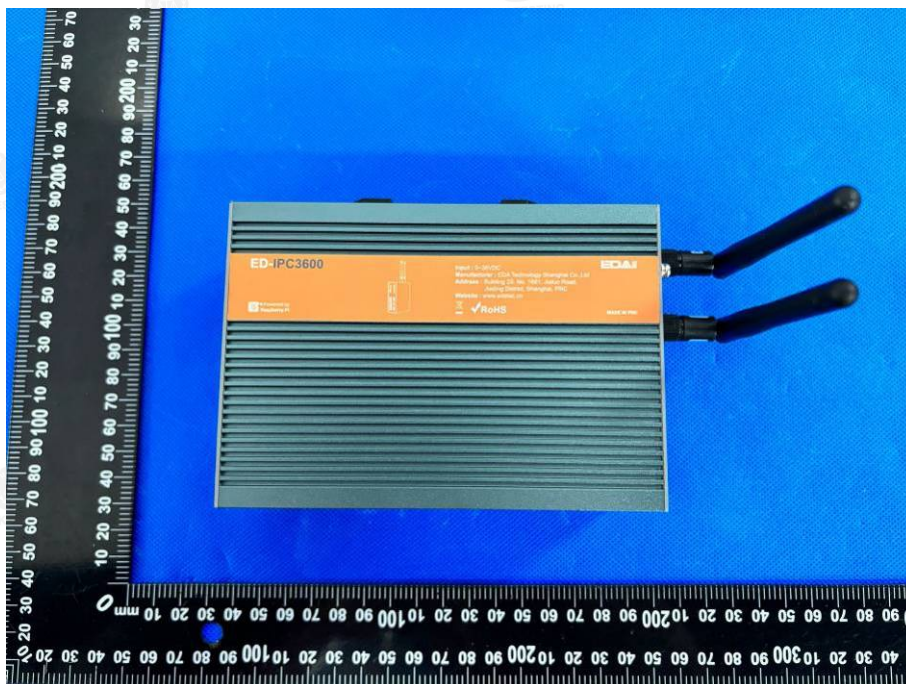


Photo 3



Photo 4



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Photo 5

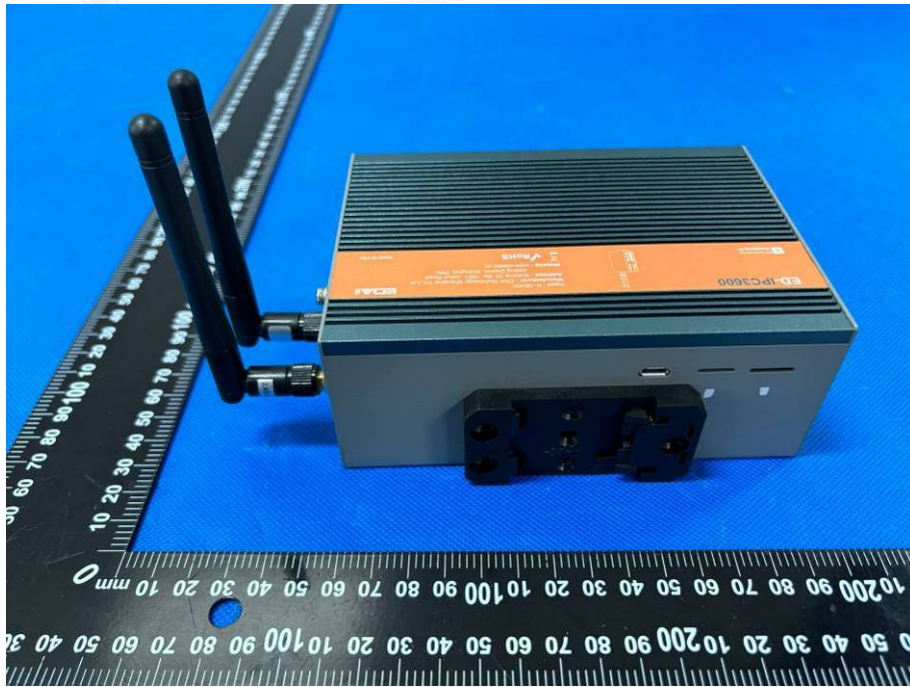
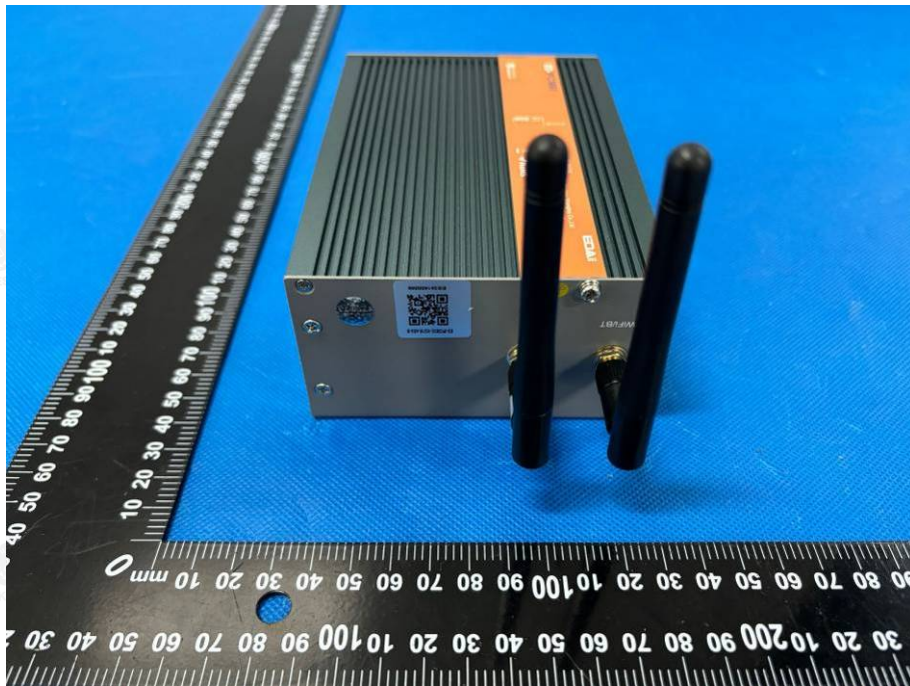


Photo 6



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Photo 7

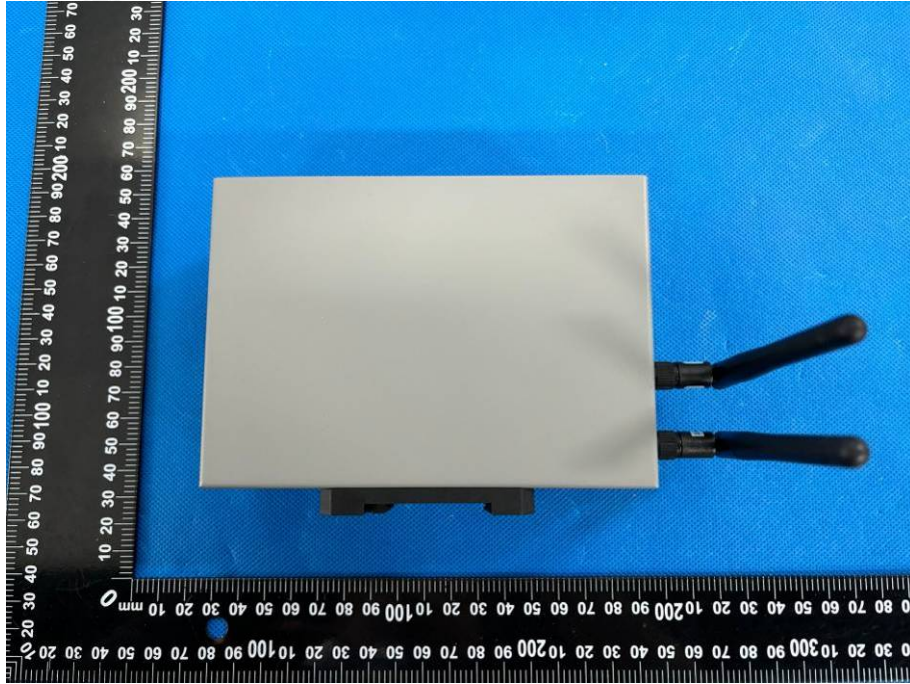
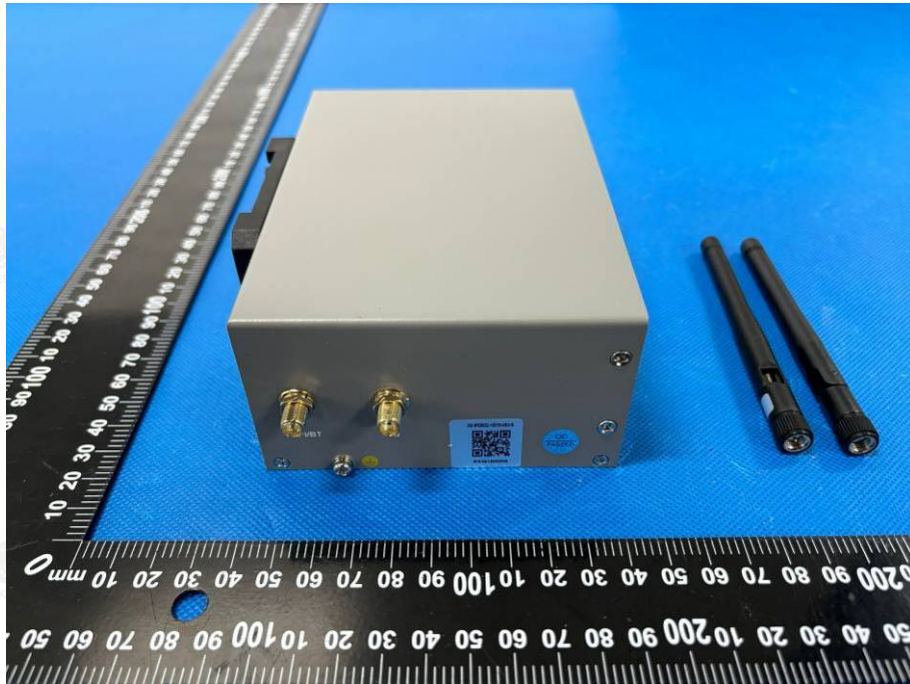


Photo 8

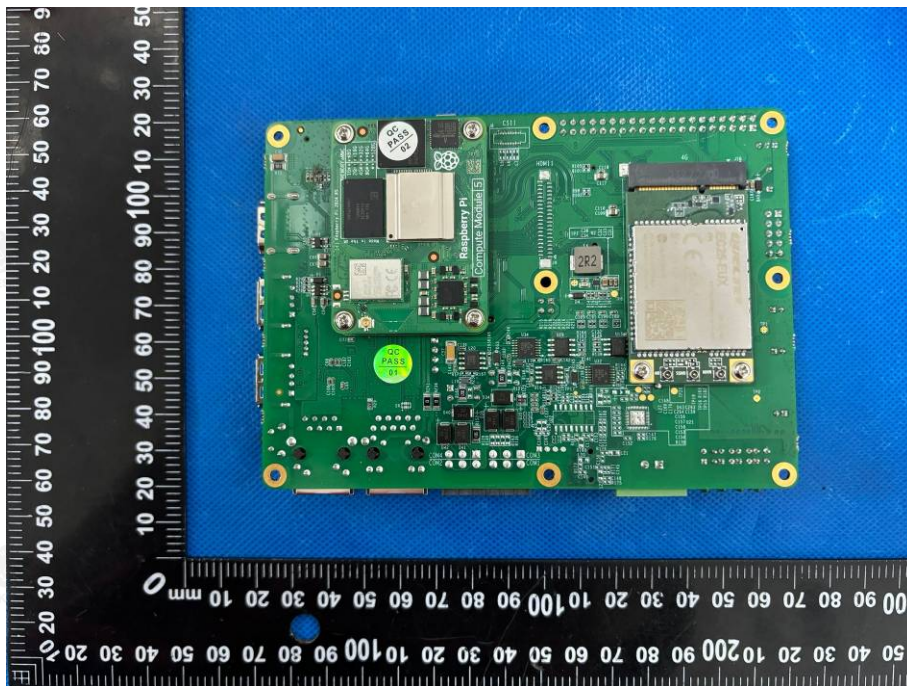


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Photo 9



Photo 10



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Photo 11

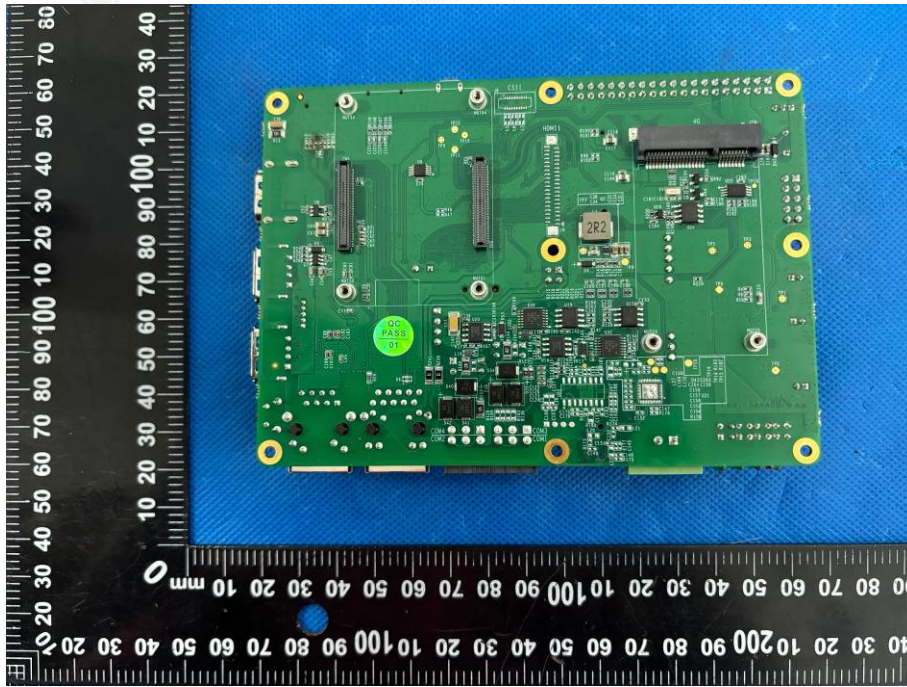
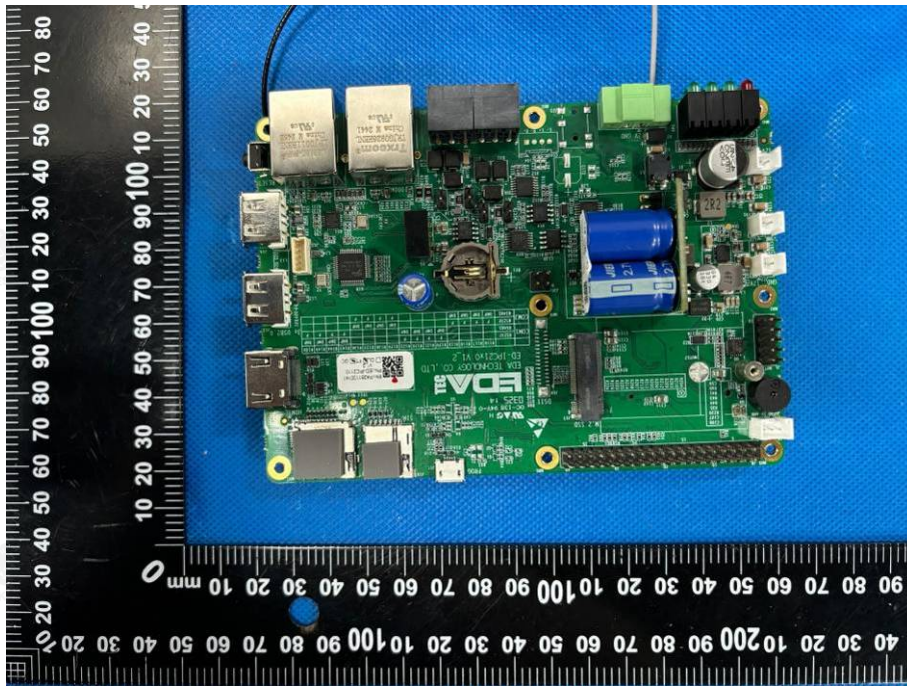


Photo 12



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Photo 13

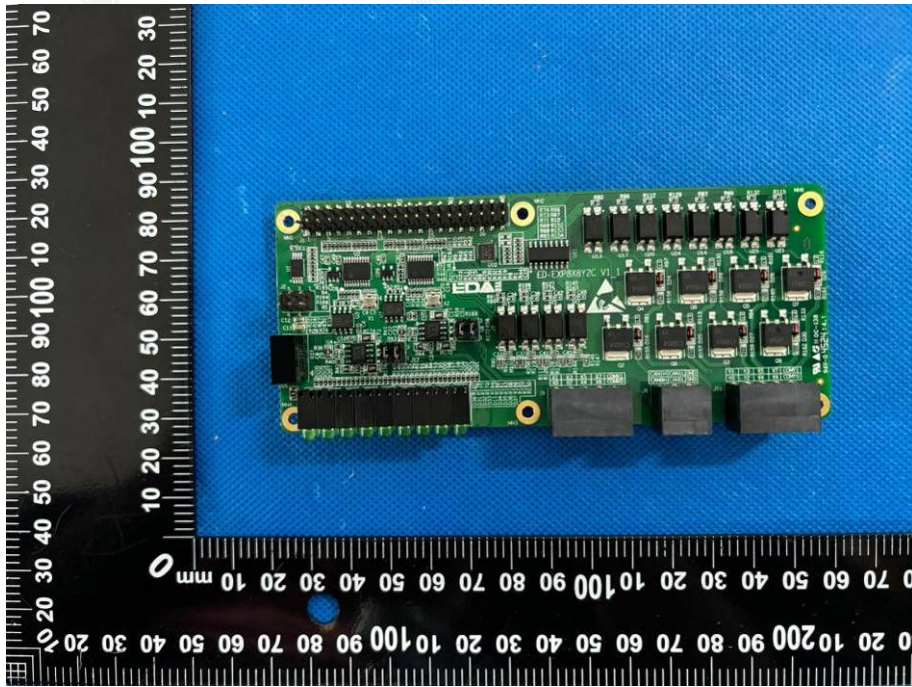
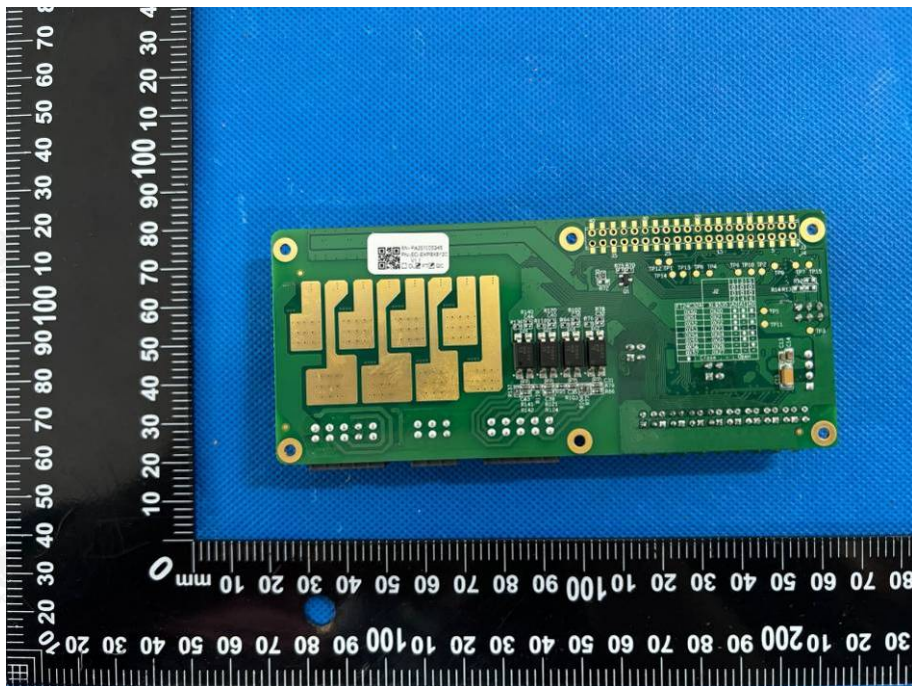


Photo 14



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Photo 15

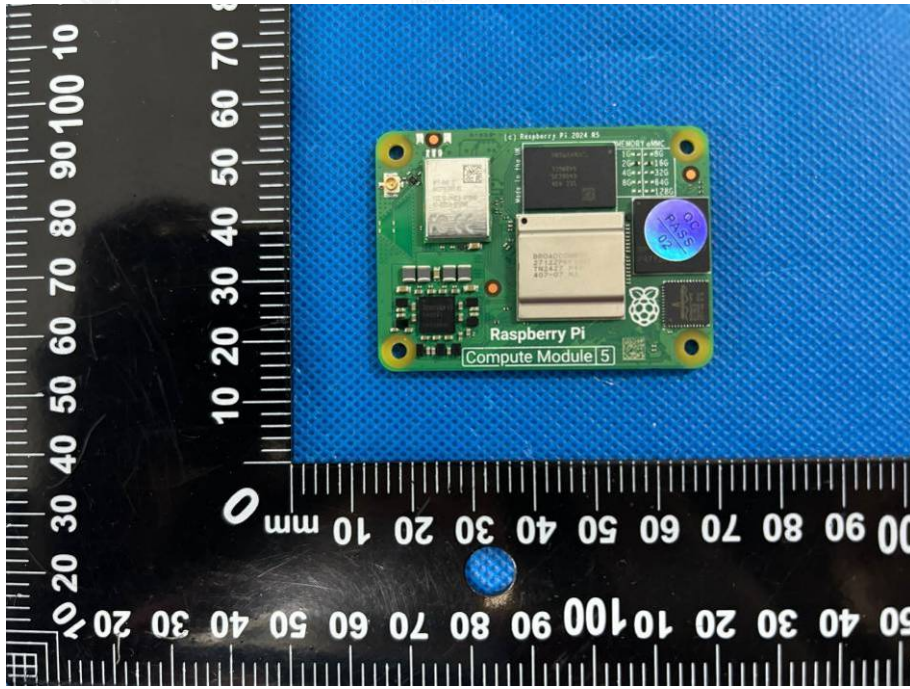
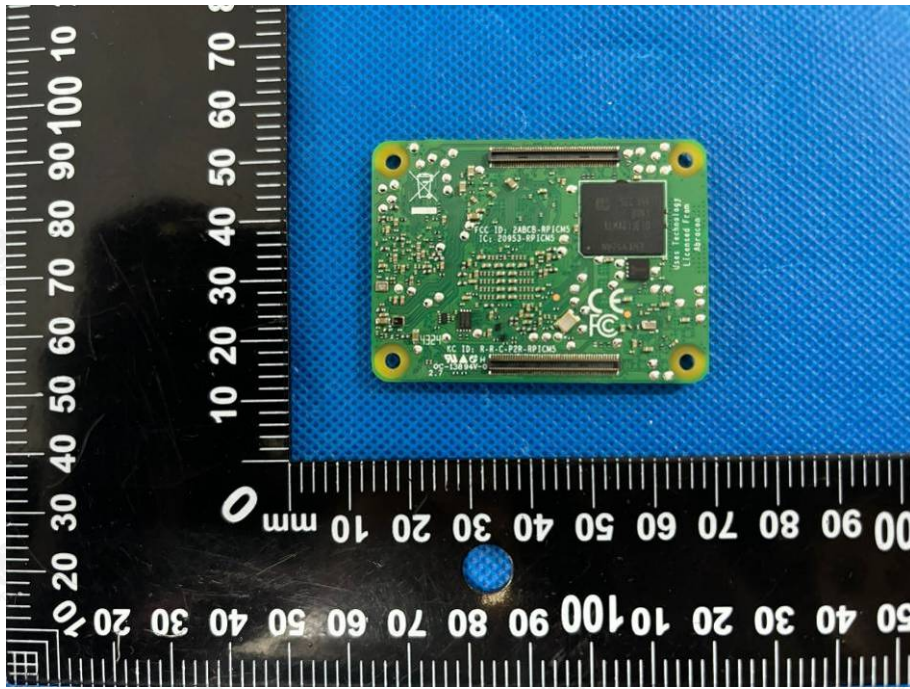


Photo 16



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Photo 17

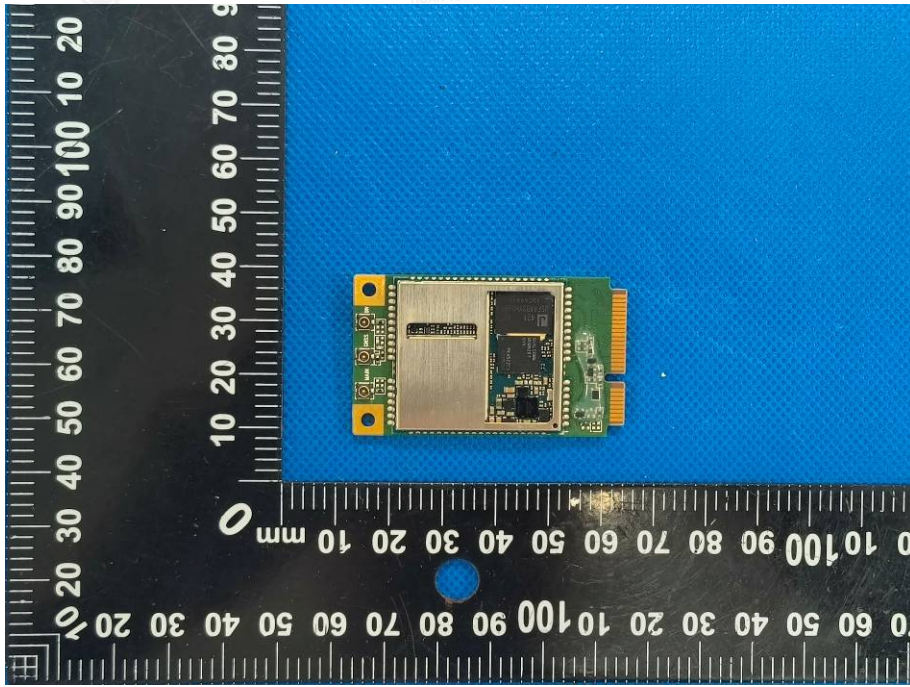
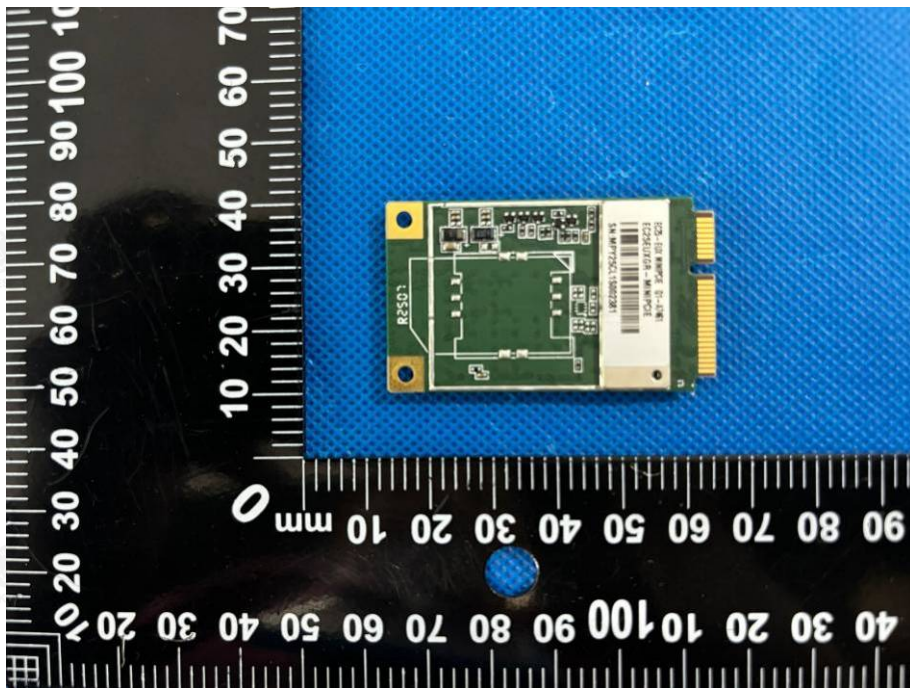


Photo 18



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

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