



# FCC SDoC Test Report

## For

**Applicant Name:** Shenzhen DOOGEE Hengtong Technology CO., LTD  
**Address:** B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China  
**EUT Name:** Tablet  
**Brand Name:** DOOGEE  
**Model Number:** U10  
**Series Model Number:** Refer to section 2

## Issued By

**Company Name:** BTF Testing Lab (Shenzhen) Co., Ltd.  
**Address:** F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

**Report Number:** BTF230817R00401  
**Test Standards:** 47 CFR Part 15, Subpart B

**Test Conclusion:** Pass  
**Test Date:** 2023-08-11 to 2023-08-16  
**Date of Issue:** 2023-08-18

**Prepared By:**

Elma.Yang

**Date:**

elma.yang, Project Engineer  
2023-08-18

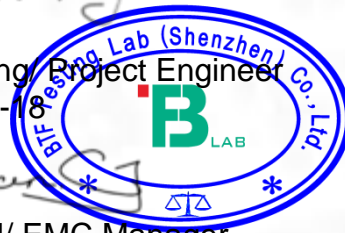
**Approved By:**

Ryan.CJ

Ryan.CJ/ EMC Manager

**Date:**

2023-08-18



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2023-08-18	Original

*Note: Once the revision has been made, then previous versions reports are invalid.*

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## 1 Introduction

### 1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

### 1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130
FCC Registration Number:	518915
Designation Number:	CN1330

### 1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2 Product Information

### 2.1 Application Information

Company Name:	Shenzhen DOOGEE Hengtong Technology CO., LTD
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China

### 2.2 Manufacturer Information

Company Name:	Shenzhen DOOGEE Hengtong Technology CO., LTD
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China

### 2.3 Factory Information

Company Name:	Shenzhen DOOGEE Hengtong Technology CO., LTD
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China

### 2.4 General Description of Equipment under Test (EUT)

EUT Name:	Tablet
Test Model Number:	U10
Series Model Number:	U10Pro, U10Kid, U10Max, U10Ultra, U10Mini, U9, U9Kid, U9Pro, U9Max, U9Ultra
Diff:	There is no difference, except for the appearance color and size. The circuit and principle are the same. All tests were conducted using the U10 model.

### 2.5 Technical Information

Power Supply:	DC 3.8V from battery or DC 5V from adapter
Power Adaptor:	Input: 100~240V 50/60Hz 0.35A Max Output: 5V=2A 10.0W

### 3 Summary of Test Results

#### 3.1 Test Standards

The tests were performed according to following standards:  
**47 CFR Part 15, Subpart B: Unintentional Radiators**

#### 3.2 Uncertainty of Test

Item	Measurement Uncertainty
Conducted Emission (150 kHz-30 MHz)	±2.64dB
All emissions, radiated (<1GHz)	±4.12dB

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 3.3 Summary of Test Result

Item	Standard	Requirement	Result
Conducted emissions on AC mains	47 CFR Part 15, Subpart B	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass
Radiated emissions (Above 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass

## 4 Test Configuration

### 4.1 Test Equipment List

Conducted emissions on AC mains					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2022-11-24	2023-11-23
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22
EMI Receiver	ROHDE&SCHWARZ	ESCI3	101422	2022-11-24	2023-11-23

Radiated emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Radiated emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2023-03-24	2024-03-23
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23

RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2023-03-24	2024-03-23
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27



## 4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

## 4.3 Test Modes

No.	Test Modes	Radiated emission	Conducted emission
TM1	On, Charging and Data transmitting	※	※
TM2	On, Camera and Charging	/	/
TM3	On, Video play and Charging	/	/
TM4	Idle	/	/
TM5	Off, Charging	/	/
TM6	Off	/	/

Note: Mode 1 ※ is worst case mode tests, so this report only reflected the worst mode in this part.

## 5 Emission Test Results (EMI)

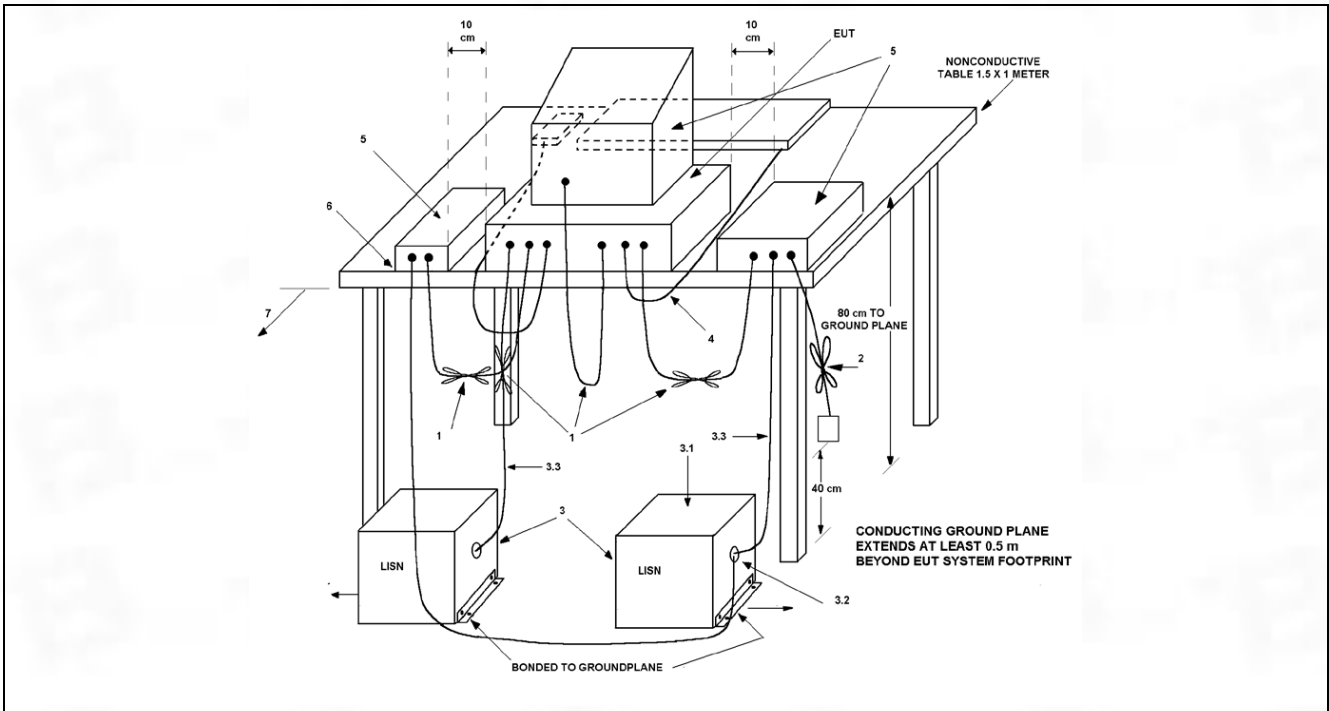
### 5.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Method:	ANSI C63.4		
Test Limit:	<b>Frequency of emission (MHz)</b>	<b>Conducted limit (dB<math>\mu</math>V)</b>	
		<b>Quasi-peak</b>	<b>Average</b>
	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.		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

#### 5.1.1 E.U.T. Operation:

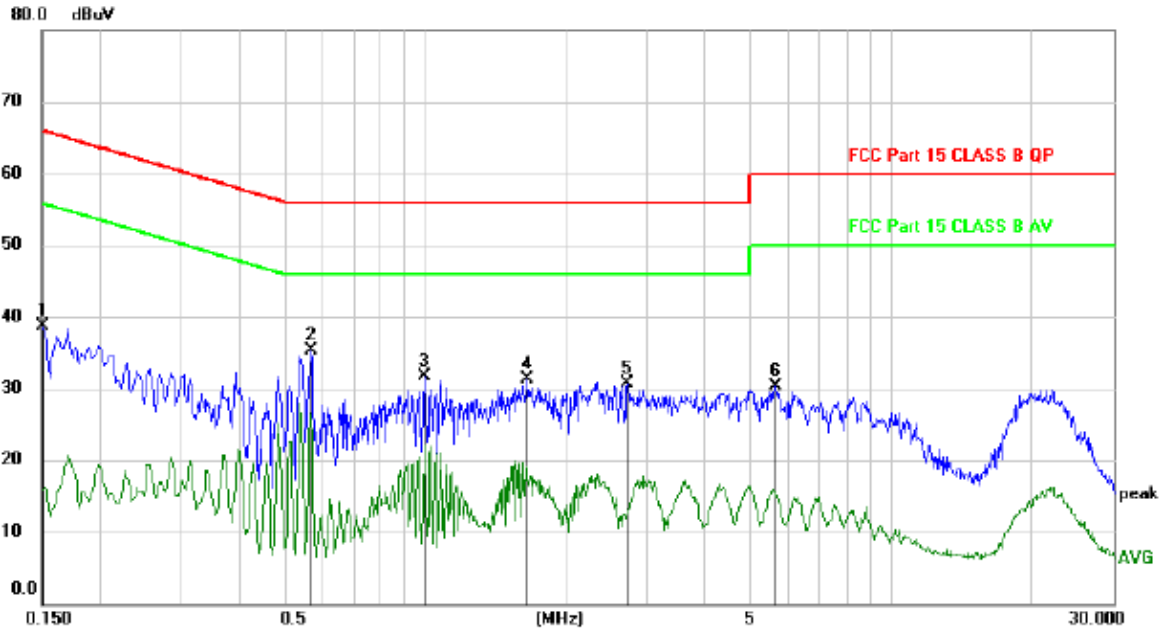
Operating Environment:	
Temperature:	24.1 °C
Humidity:	48.7 %
Atmospheric Pressure:	1010 mbar

#### 5.1.2 Test Setup Diagram:



5.1.3 Test Data:

TM1 / Line: Line



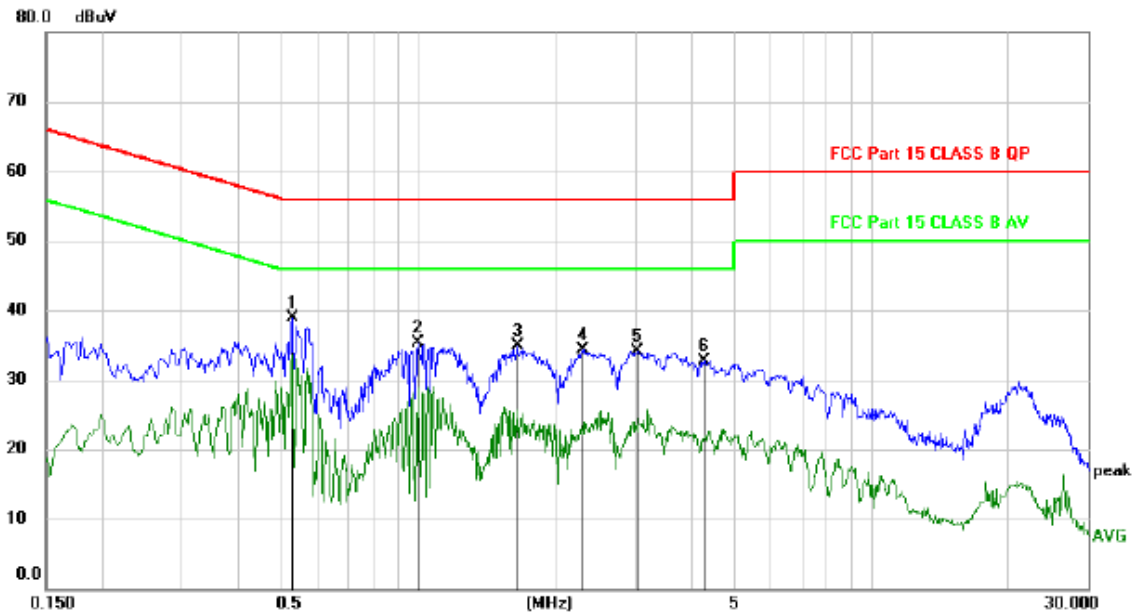
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	28.84	9.83	38.67	66.00	-27.33	peak	
2	*	0.5700	25.40	9.83	35.23	56.00	-20.77	peak	
3		0.9959	21.83	9.84	31.67	56.00	-24.33	peak	
4		1.6556	21.60	9.78	31.38	56.00	-24.62	peak	
5		2.7149	20.89	9.79	30.68	56.00	-25.32	peak	
6		5.6429	20.37	9.91	30.28	60.00	-29.72	peak	

\*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

TM1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.5250	29.01	9.83	38.84	56.00	-17.16	peak	
2		0.9929	25.44	9.84	35.28	56.00	-20.72	peak	
3		1.6529	25.20	9.78	34.98	56.00	-21.02	peak	
4		2.3039	24.54	9.77	34.31	56.00	-21.69	peak	
5		3.0390	24.39	9.80	34.19	56.00	-21.81	peak	
6		4.2568	22.85	9.87	32.72	56.00	-23.28	peak	

\*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

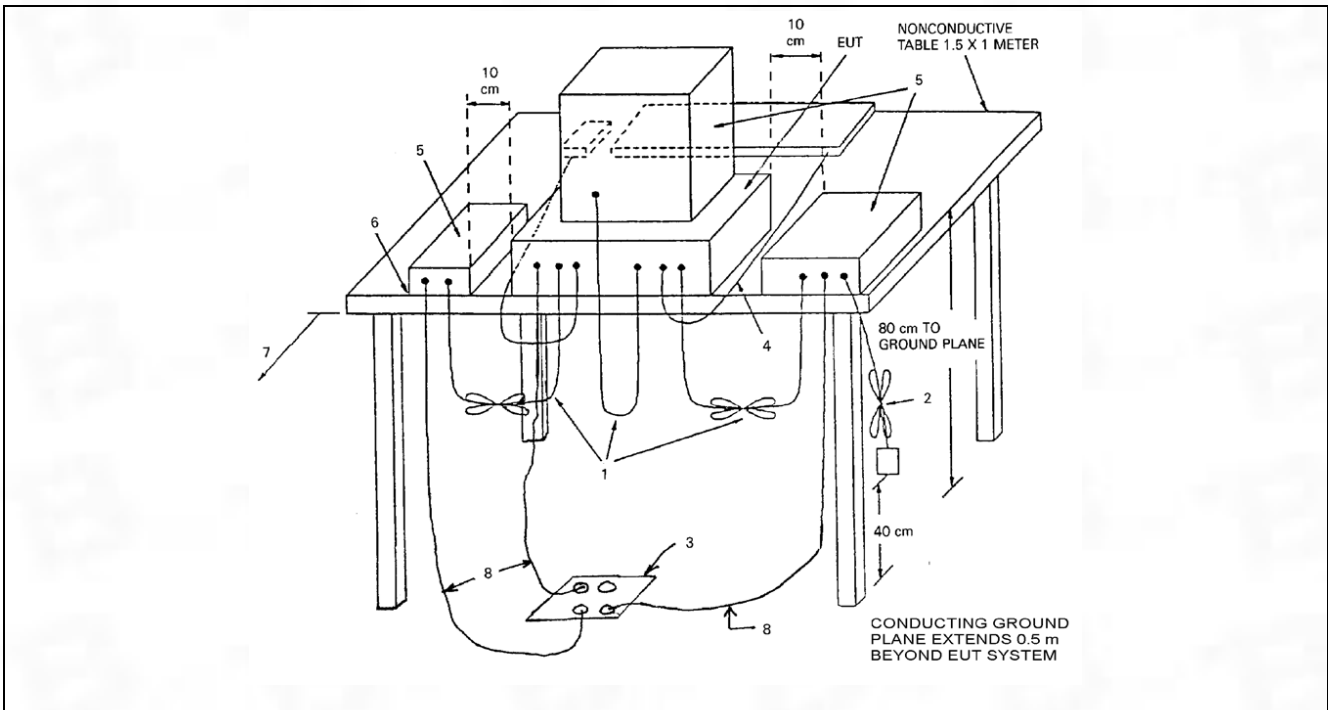
## 5.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Method:	ANSI C63.4				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
	<b>Frequency of emission (MHz)</b>	<b>Field strength @3m</b>		<b>Field strength @10m</b>	
		<b>(uV/m)</b>	<b>(dBuV/m)</b>	<b>(uV/m)</b>	<b>(dBuV/m)</b>
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
216 – 960	200	46	60	35.6	
Above 960	500	54	150	43.5	
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor				

### 5.2.1 E.U.T. Operation:

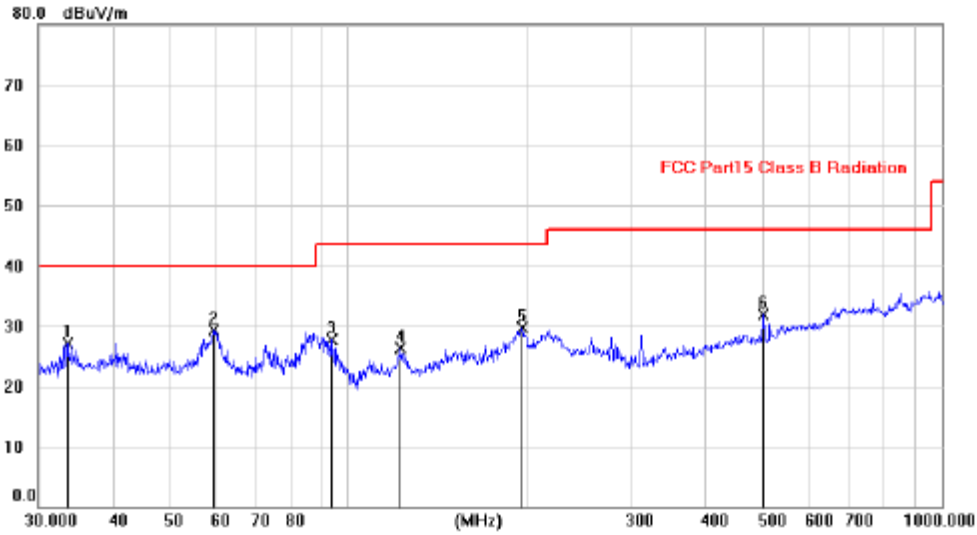
Operating Environment:	
Temperature:	24.1 °C
Humidity:	48.7 %
Atmospheric Pressure:	1010 mbar

### 5.2.2 Test Setup Diagram:



5.2.3 Test Data:

TM1 / Polarization: Horizontal

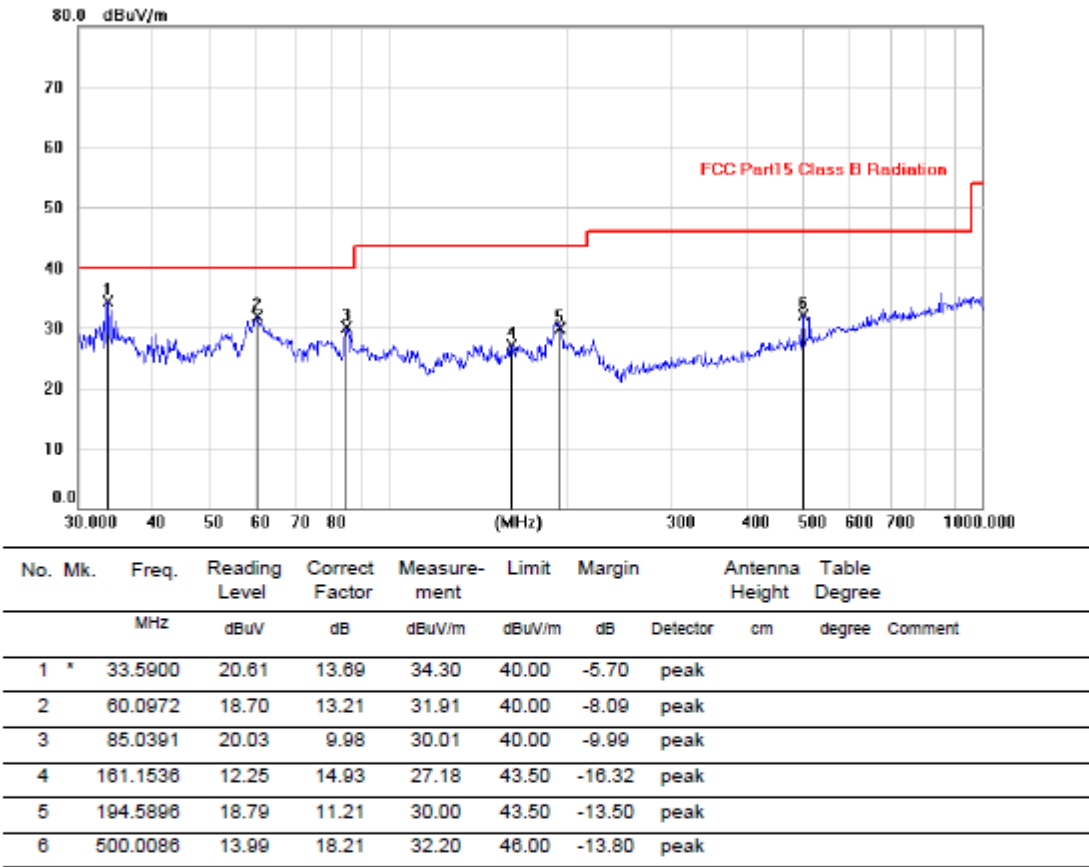


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		33.6330	13.51	13.69	27.20	40.00	-12.80		
2	*	59.3918	16.08	13.25	29.33	40.00	-10.67		
3		93.5276	17.44	10.35	27.79	43.50	-15.71		
4		122.7908	13.20	13.19	26.39	43.50	-17.11		
5		196.3950	18.56	11.11	29.67	43.50	-13.83		
6		500.0086	13.77	18.21	31.98	46.00	-14.02		

Note: 1. \*:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

TM1 / Polarization: Vertical



Note: 1. \*:Maximum data; x:Over limit; !:over margin.  
 2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

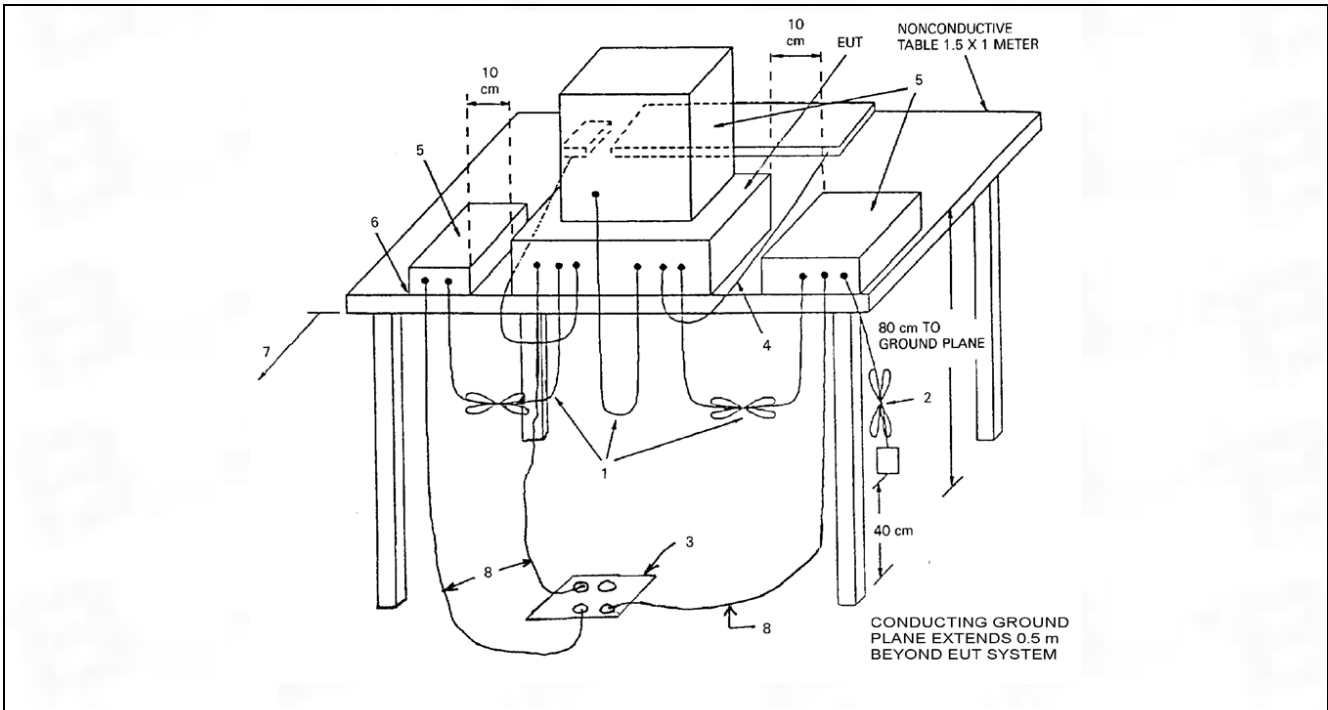
### 5.3 Radiated emissions (Above 1GHz)

Test Requirement:	15.109, Class B		
Test Method:	ANSI C63.4		
Test Limit:	Frequency of emission (MHz)	Field strength @3m	
		Average (uV/m)	Average (dBuV/m)
	Above 1GHz	500	54
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. For below 1GHz test, Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. For above 1GHz test, Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.		
	Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor		

#### 5.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.2 °C
Humidity:	54.7 %
Atmospheric Pressure:	1010 mbar

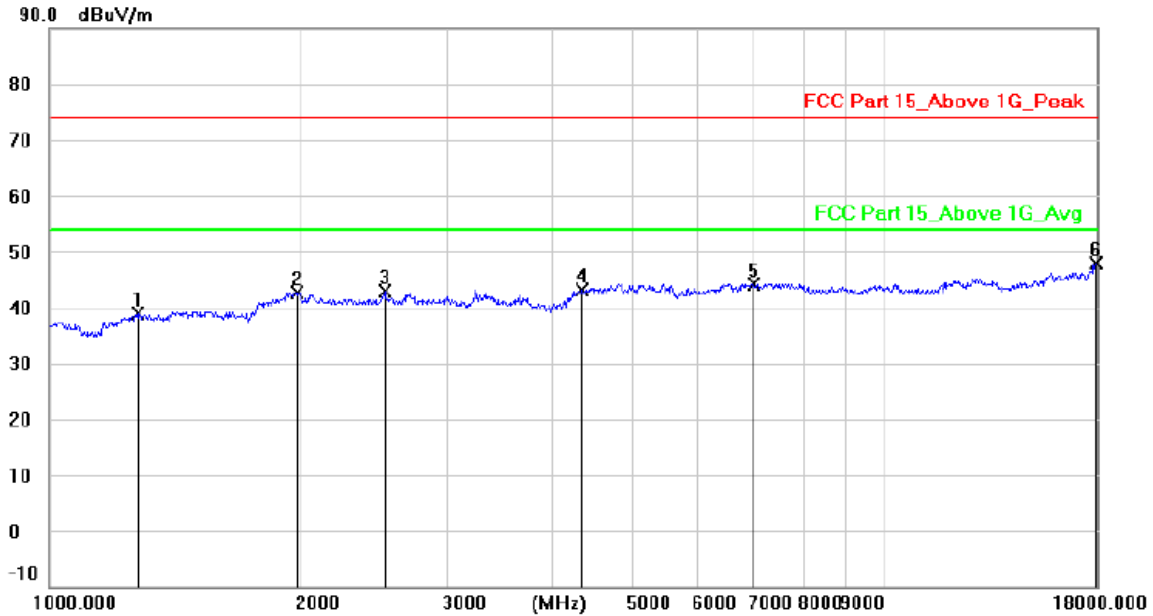
#### 5.3.2 Test Setup Diagram:





5.3.3 Test Data:

TM1 / Polarization: Horizontal

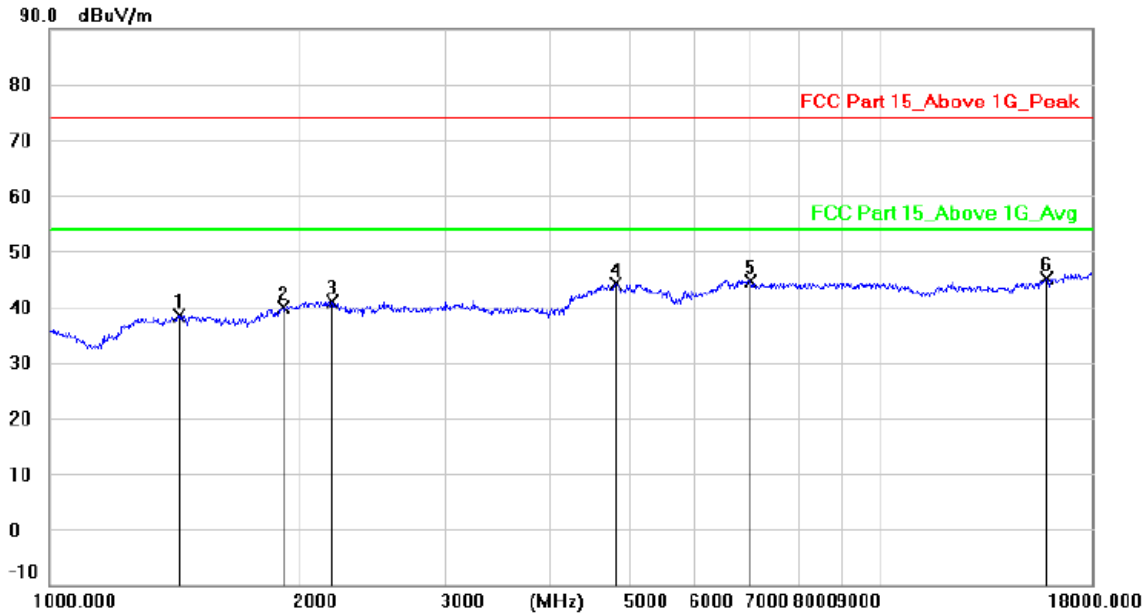


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		1278.492	46.31	-7.53	38.78	74.00	-35.22			peak
2		1983.808	48.25	-5.53	42.72	74.00	-31.28			peak
3		2521.664	46.17	-3.32	42.85	74.00	-31.15			peak
4		4354.454	47.38	-4.24	43.14	74.00	-30.86			peak
5		6995.172	41.76	2.46	44.22	74.00	-29.78			peak
6	*	17948.04	35.35	12.56	47.91	74.00	-26.09			peak

Note: 1. \*: Maximum data; x: Over limit; !: over margin.

2. Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

TM1 / Polarization: Vertical



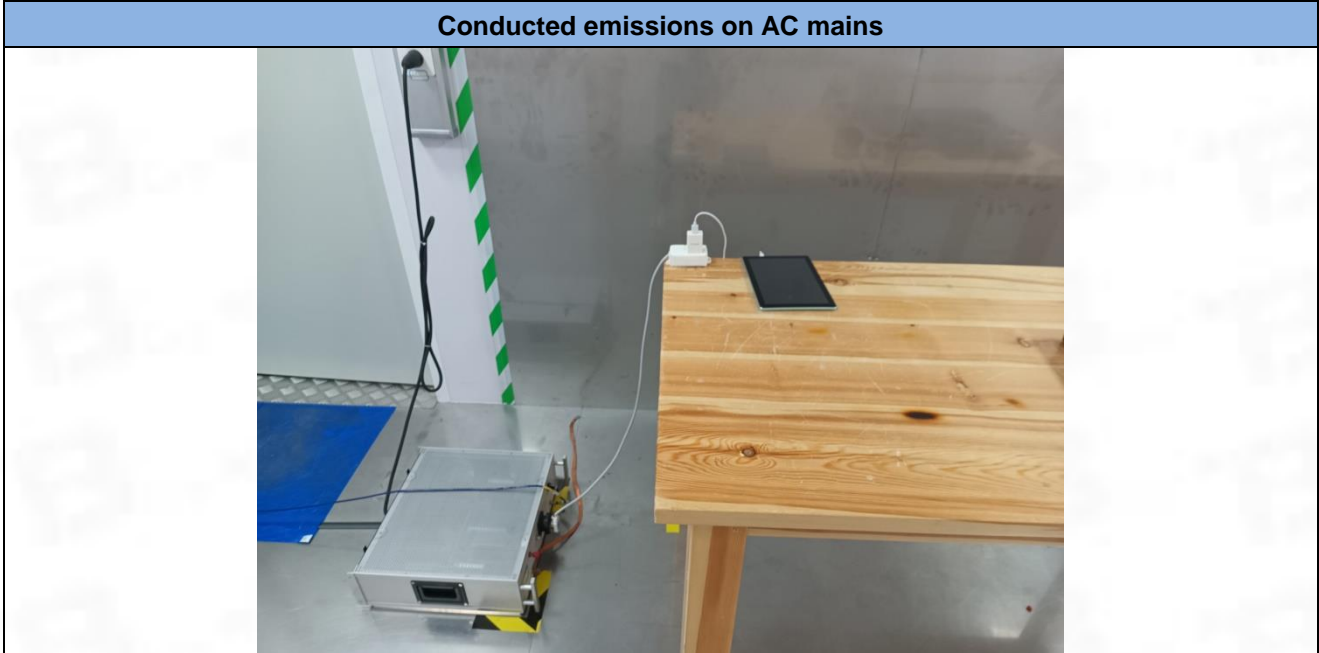
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Detector	Comment
1		1435.189	45.45	-7.00	38.45	74.00	-35.55			peak	
2		1910.649	45.72	-5.96	39.76	74.00	-34.24			peak	
3		2188.663	44.42	-3.43	40.99	74.00	-33.01			peak	
4		4804.110	47.09	-2.93	44.16	74.00	-29.84			peak	
5		6995.172	42.26	2.46	44.72	74.00	-29.28			peak	
6	*	15896.29	41.93	3.32	45.25	74.00	-28.75			peak	

Note:1. \*:Maximum data; x:Over limit; !:over margin.

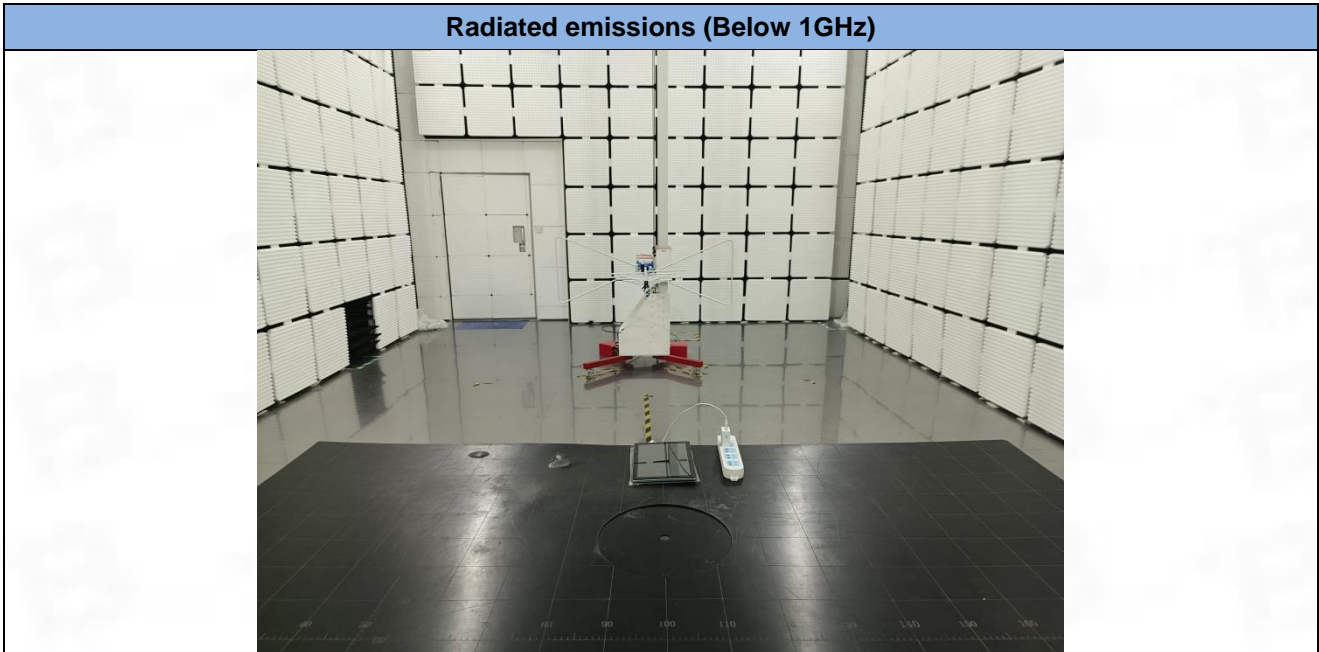
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

## 6 Test Setup Photos

Conducted emissions on AC mains



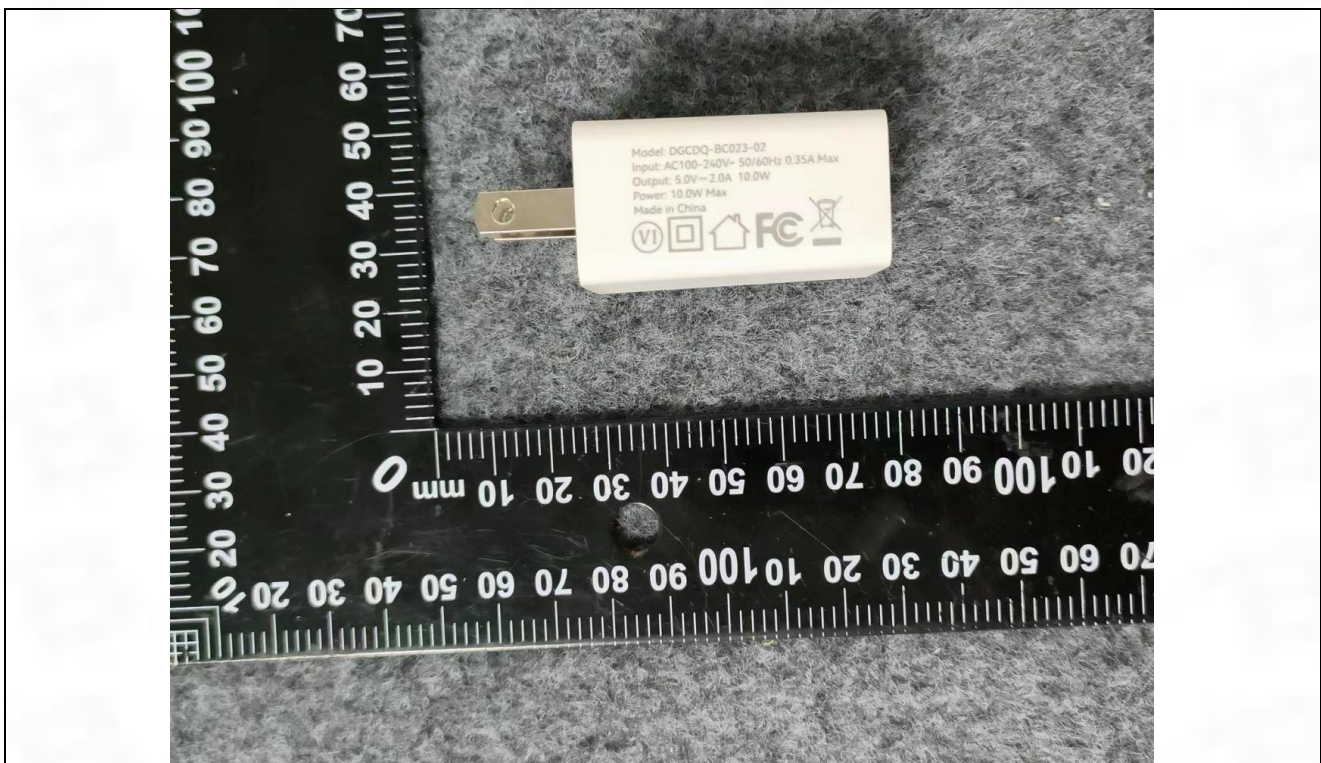
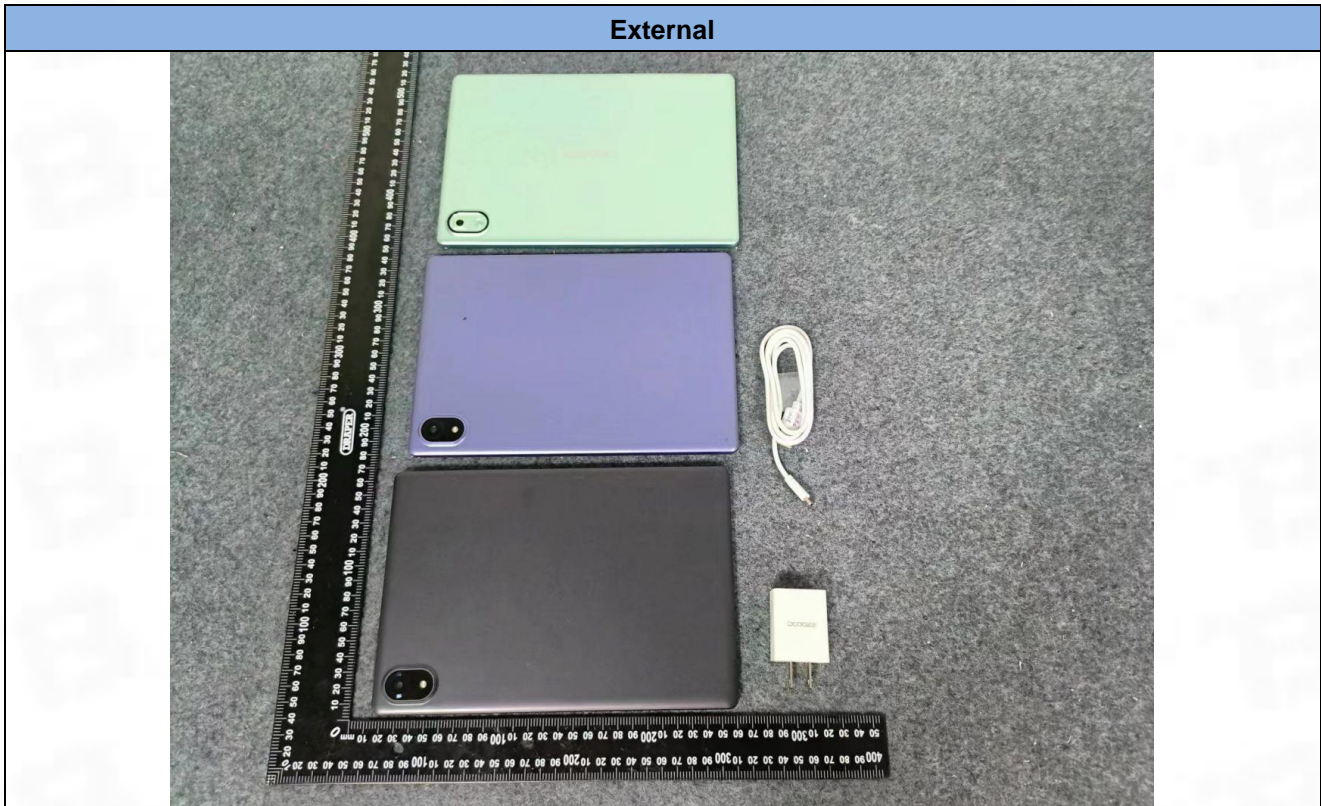
Radiated emissions (Below 1GHz)

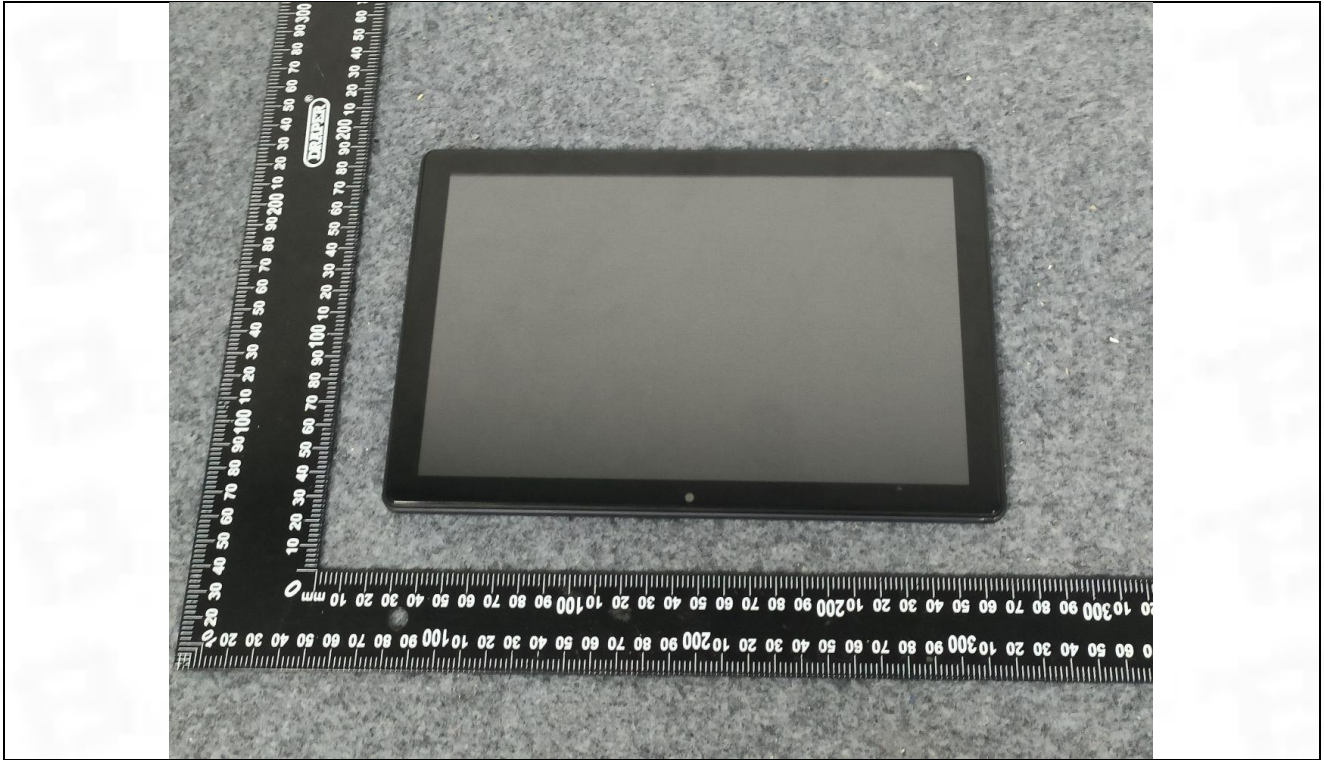


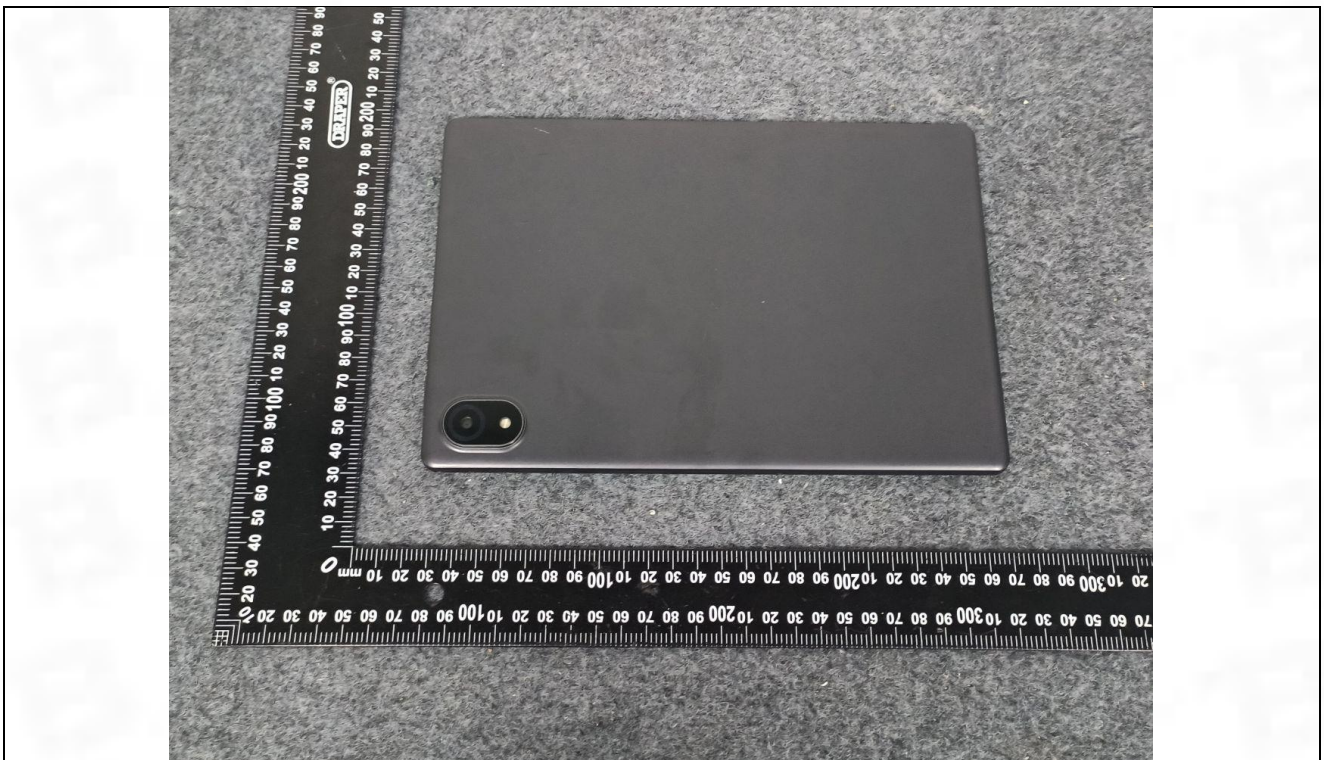
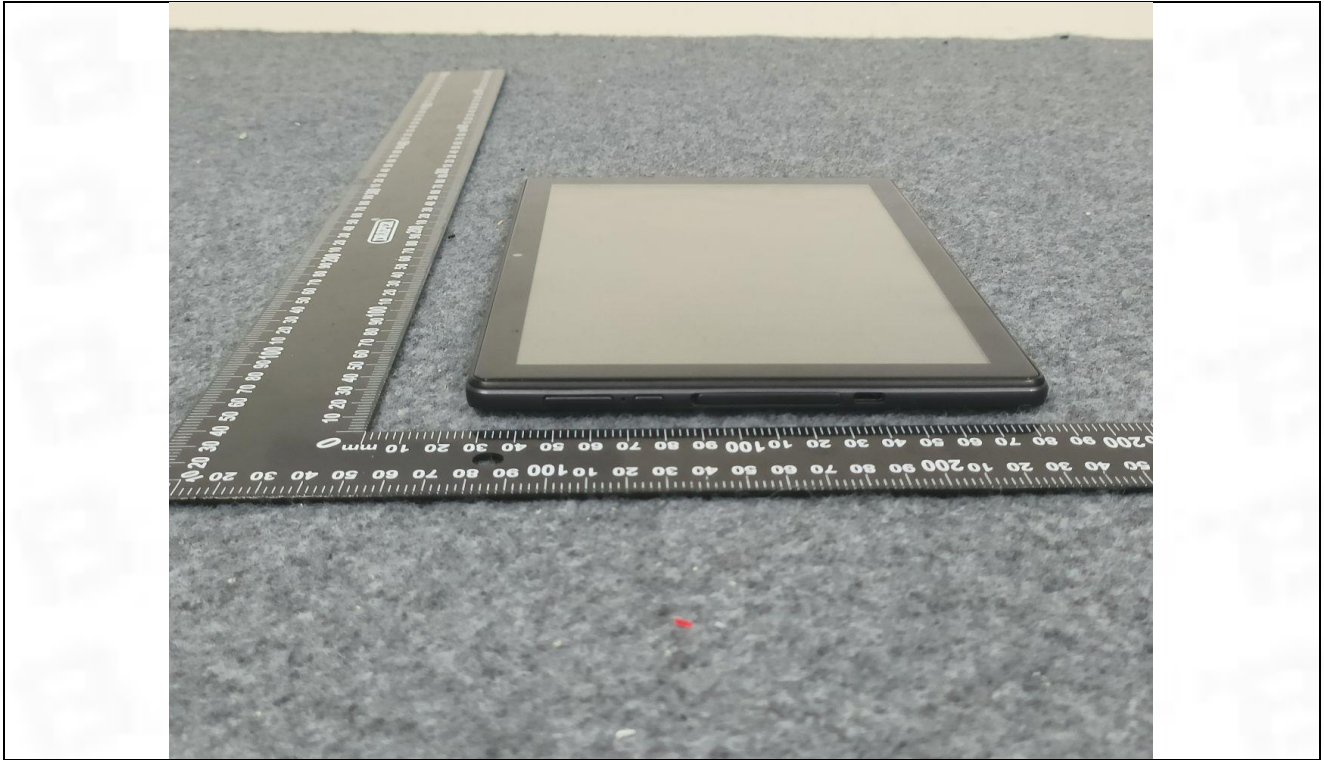
Radiated emissions (Above 1GHz)



## 7 EUT Constructional Details (EUT Photos)





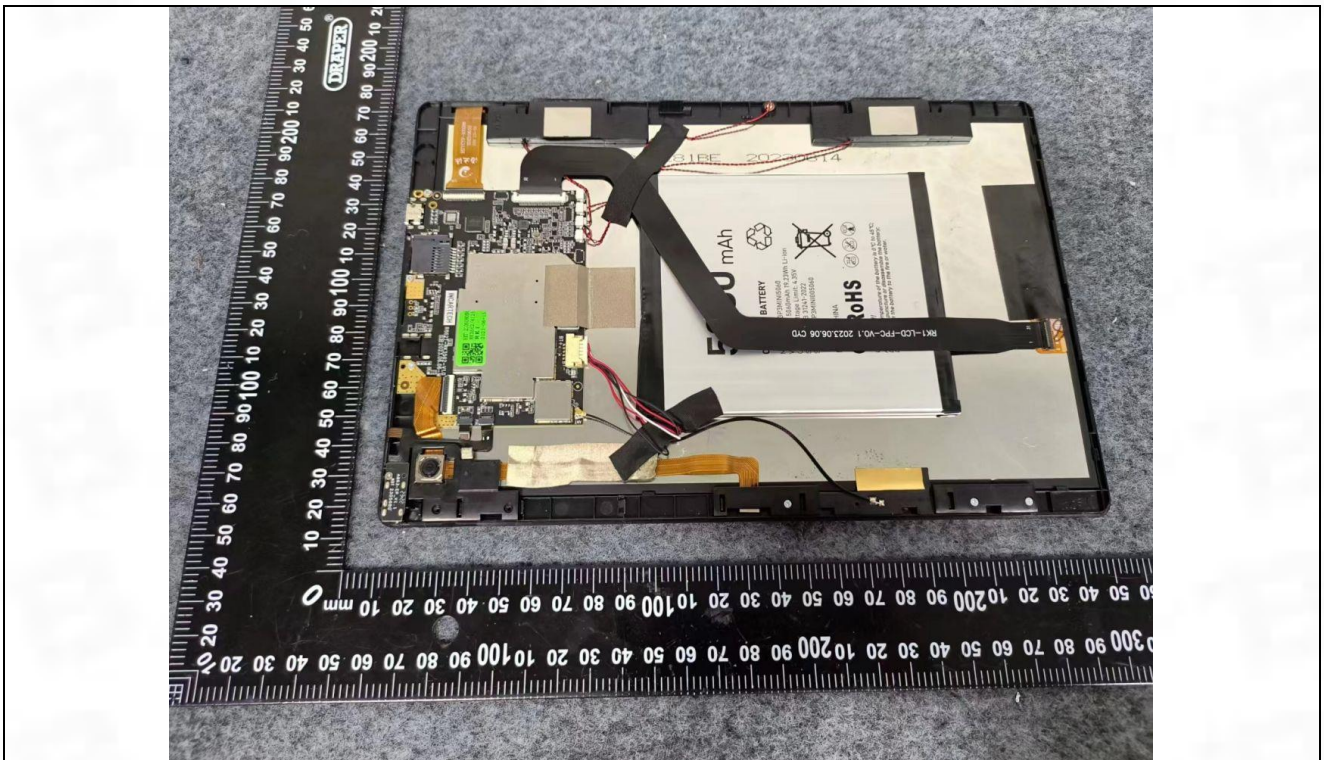
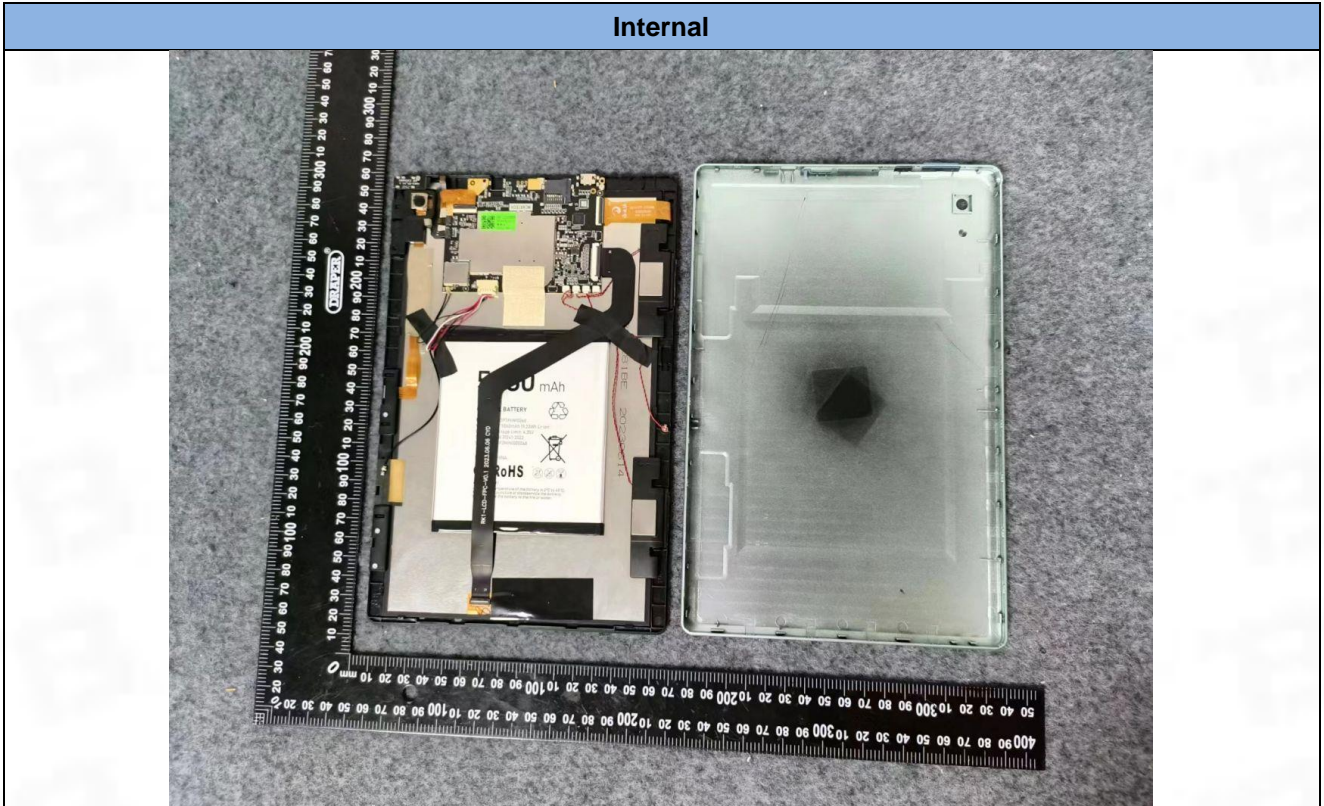


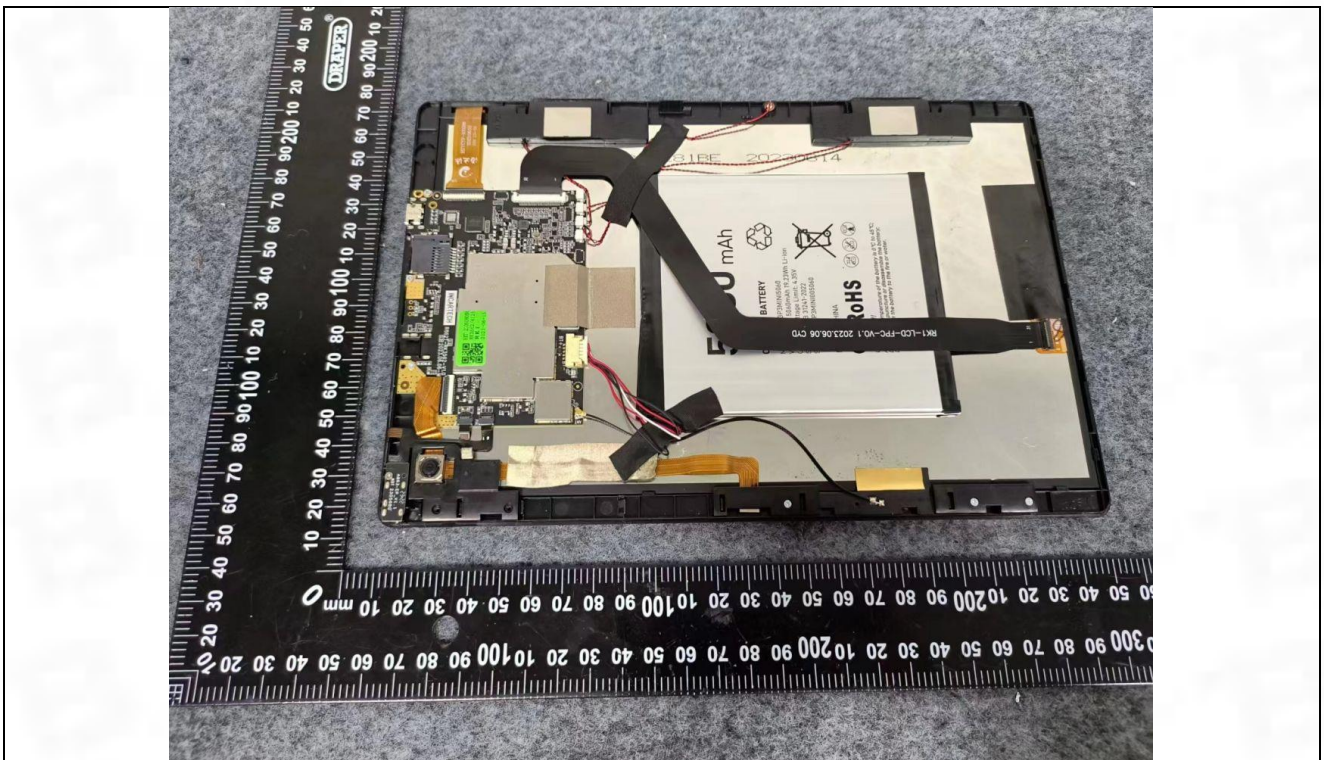
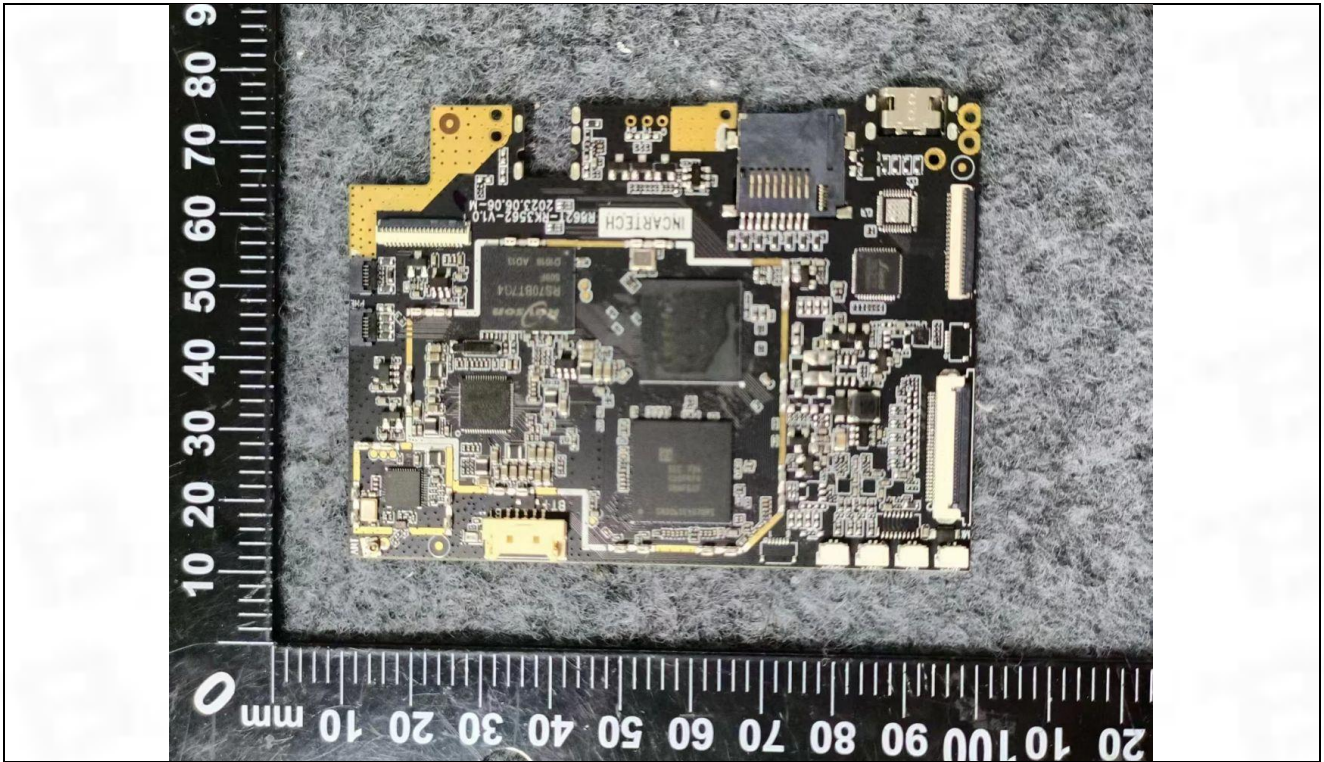


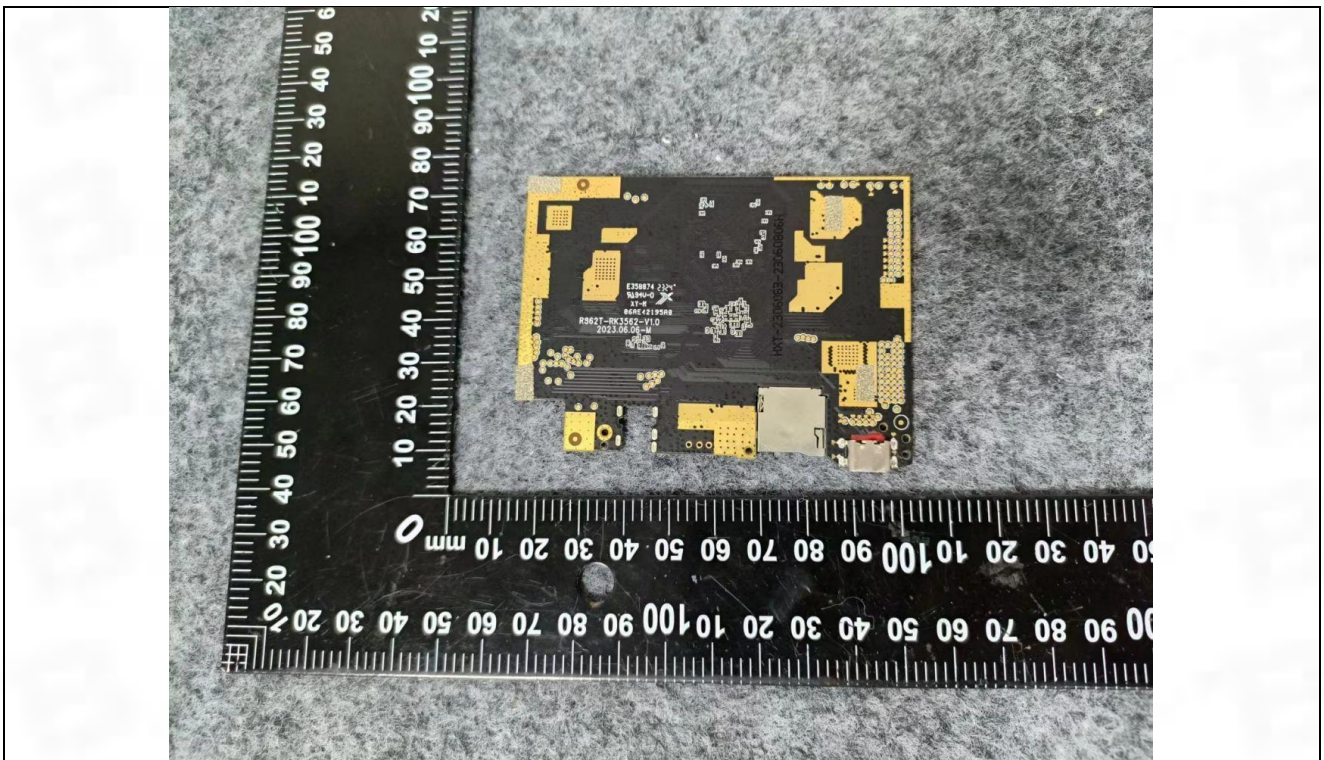
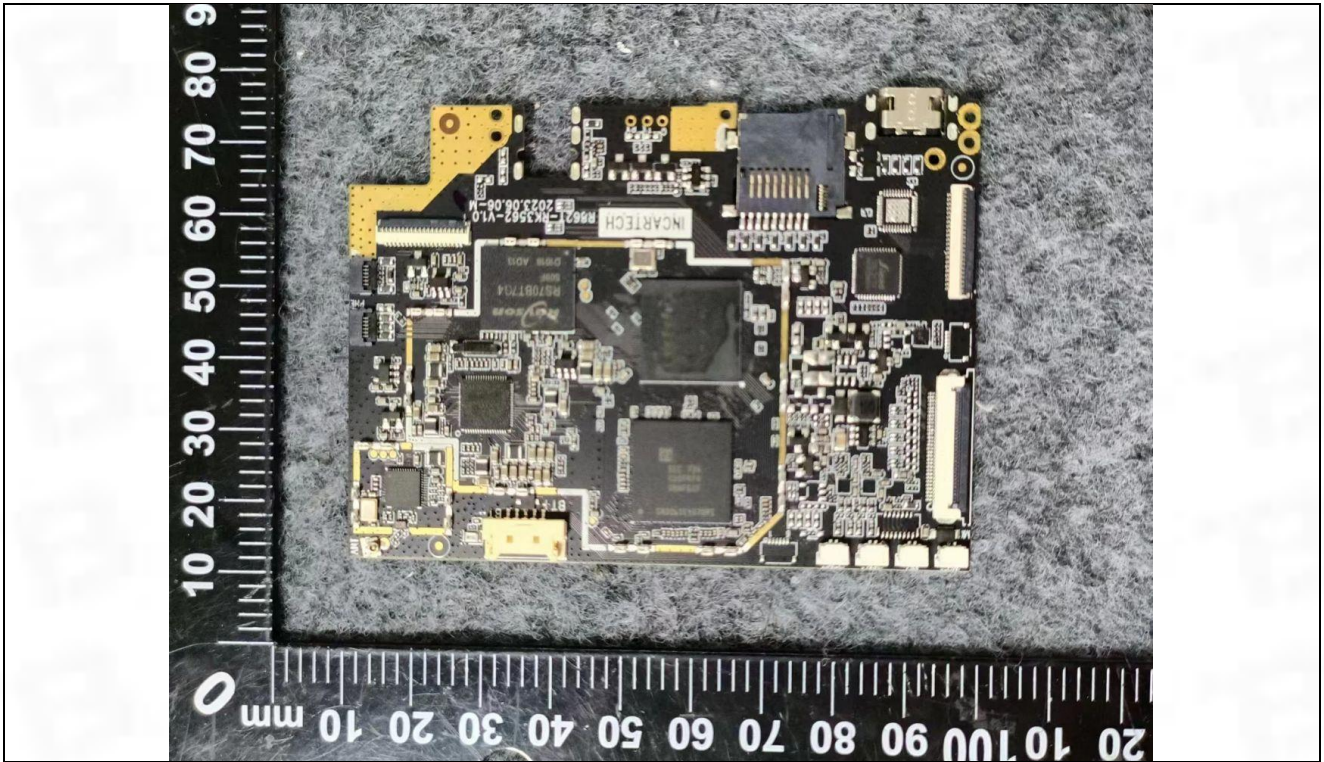




Internal











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