FCC SDoC Test Report

For

Applicant Name:	**SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD**
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
EUT Name:	Smart Phone
Brand Name:	OUKITEL
Model Number:	WP33 Pro
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:	BTF231110E00201
Test Standards:	47 CFR Part 15, Subpart B
Test Conclusion:	Pass
FCC ID:	2ANMU-WP33PRO
Test Date:	2023-11-10 to 2023-12-08
Date of Issue:	2023-12-12
Prepared By:	Chris Liu / Project Engineer
Date:	2023-12-12
Approved By:	Ryan.CJ / EMC Manager
Date:	2023-12-12

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2023-12-12	Original
Note: Once the revision has been made, then previous versions reports are invalid.		

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

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

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 YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

2.2 Manufacturer Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

2.3 Factory Information

Company Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Smart Phone
Test Model Number:	WP33 Pro
Series Model Number:	WP33, WP33 S, SP33 Ultra, WP33 TITAN
Description of Model name differentiation:	Only the model name is different, the others are the same.
Hardware Version:	HCT_V500_MBA2
Software Version:	OUKITEL_WP33_Pro_EEA_V08_20231130

2.5 Technical Information

Power Supply:	AC 120V 60Hz
Power Adaptor:	Input: 100-240V~50/60Hz 0.8A Output: 5.0V==3.0A OR 9.0V==3.0A OR 12.0V==2.75A 33.0W MAX

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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
Radiated Emissions (30M - 1GHz)	±4.12dB
Radiated Emissions (above 1GHz)	1-6GHz: ±3.94dB 6-18GHz: ±4.16dB
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

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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	2023-11-16	2024-11-15
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2023-11-16	2024-11-15
V-LISN	SCHWARZBECK	NSLK 8127	01073	2023-11-16	2024-11-15
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22
EMI Receiver	ROHDE&SCHWARZ	ESCI3	101422	2023-11-16	2024-11-15

Radiated emissions (Below 1GHz) 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	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2023-11-16	2024-11-15
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2023-11-16	2024-11-15
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2023-11-16	2024-11-15
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2023-11-16	2024-11-15
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplilifier	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	2023-11-16	2024-11-15

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4.2 Test Auxiliary Equipment

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

4.3 Test Modes

No.	Test Modes	Description
TM1	Charging + Video recording	
TM2	Charging + Video play	
TM3	Date transmission	

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5 Emission Test Results (EMI)

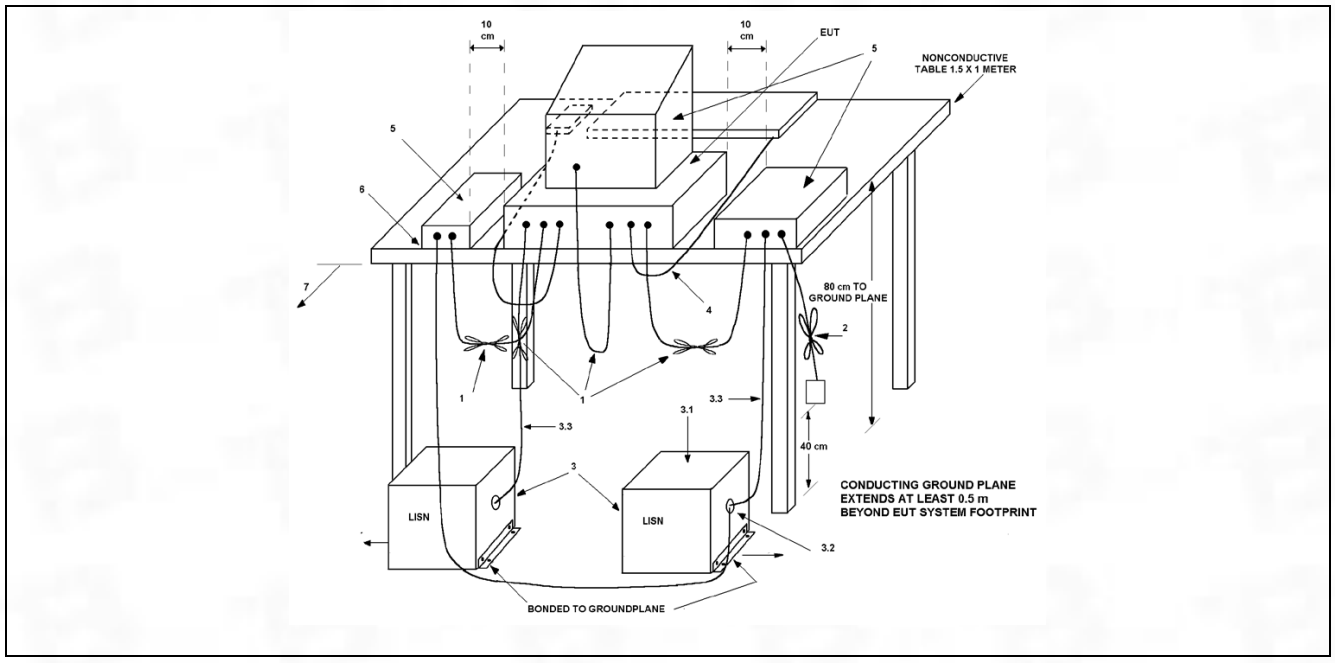
5.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B
Test Method:	ANSI C63.4-2014
Test Limit:	**Frequency of emission (MHz)** / **Conducted limit (dBμV)** — **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.
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:

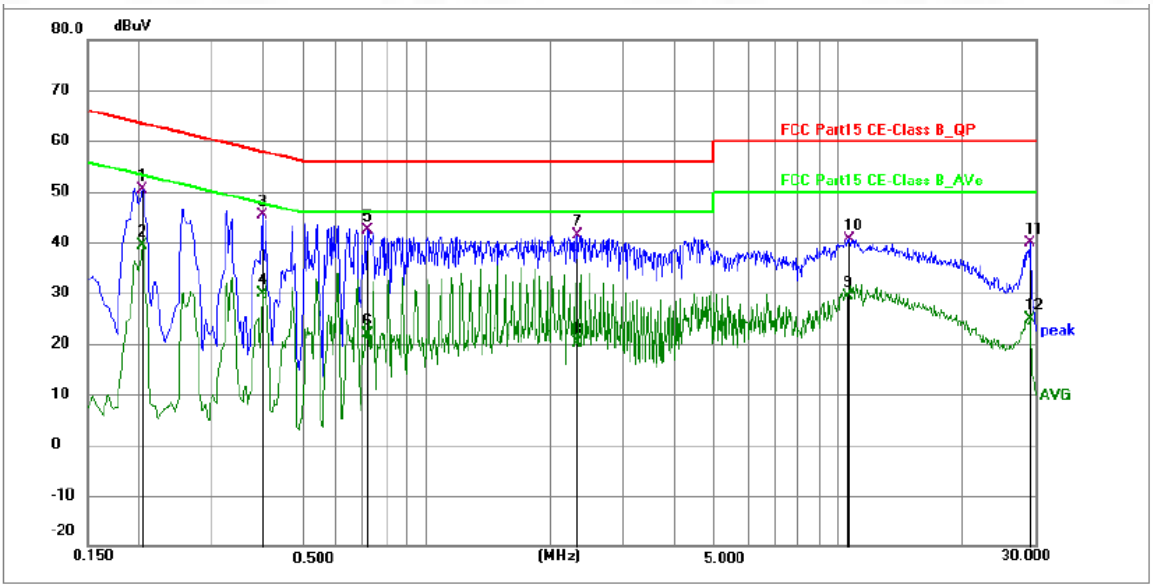
Operating Environment:	
Temperature:	24 °C
Humidity:	48.6 %
Atmospheric Pressure:	1010 mbar

5.1.2 Test Setup Diagram:



5.1.3 Test Data:

TM1 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2040	39.90	10.57	50.47	63.45	-12.98	QP	P	
2	0.2040	28.78	10.57	39.35	53.45	-14.10	AVG	P	
3 *	0.3975	34.21	11.19	45.40	57.91	-12.51	QP	P	
4	0.3975	18.64	11.19	29.83	47.91	-18.08	AVG	P	
5	0.7170	31.41	10.94	42.35	56.00	-13.65	QP	P	
6	0.7170	10.92	10.94	21.86	46.00	-24.14	AVG	P	
7	2.3145	30.69	10.67	41.36	56.00	-14.64	QP	P	
8	2.3145	9.38	10.67	20.05	46.00	-25.95	AVG	P	
9	10.5450	18.52	10.85	29.37	50.00	-20.63	AVG	P	
10	10.6170	29.69	10.85	40.54	60.00	-19.46	QP	P	
11	29.2110	28.56	11.21	39.77	60.00	-20.23	QP	P	
12	29.2110	13.62	11.21	24.83	50.00	-25.17	AVG	P	

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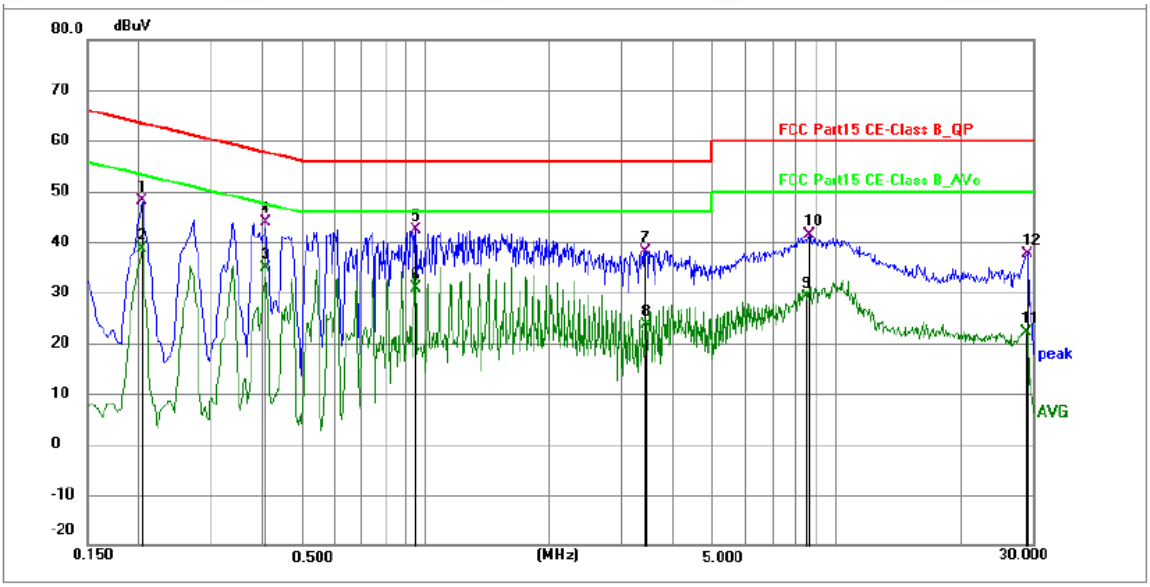
TM1 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2040	37.45	10.57	48.02	63.45	-15.43	QP	P	
2	0.2040	28.11	10.57	38.68	53.45	-14.77	AVG	P	
3 *	0.4061	23.59	11.20	34.79	47.73	-12.94	AVG	P	
4	0.4065	32.76	11.20	43.96	57.72	-13.76	QP	P	
5	0.9465	31.59	10.67	42.26	56.00	-13.74	QP	P	
6	0.9465	20.11	10.67	30.78	46.00	-15.22	AVG	P	
7	3.4215	27.59	10.64	38.23	56.00	-17.77	QP	P	
8	3.4440	13.11	10.64	23.75	46.00	-22.25	AVG	P	
9	8.5424	18.39	10.82	29.21	50.00	-20.79	AVG	P	
10	8.5740	30.52	10.82	41.34	60.00	-18.66	QP	P	
11	28.9815	10.95	11.21	22.16	50.00	-27.84	AVG	P	
12	29.2110	26.51	11.21	37.72	60.00	-22.28	QP	P	

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5.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B
Test Method:	ANSI C63.4-2014
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:

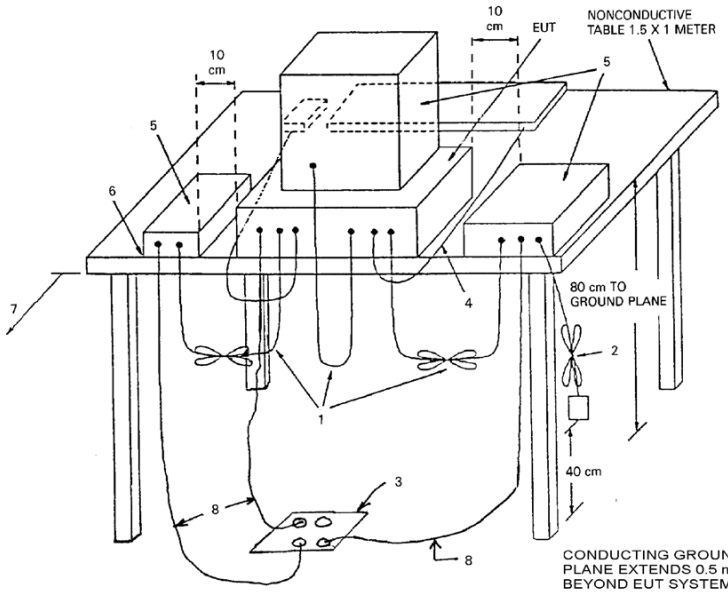
Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
	(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
30 – 88	100	40	30	29.5
88 – 216	150	43.5	45	33.1
216 – 960	200	46	60	35.6
Above 960	500	54	150	43.5

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 °C
Humidity:	48.6 %
Atmospheric Pressure:	1010 mbar

5.2.2 Test Setup Diagram:



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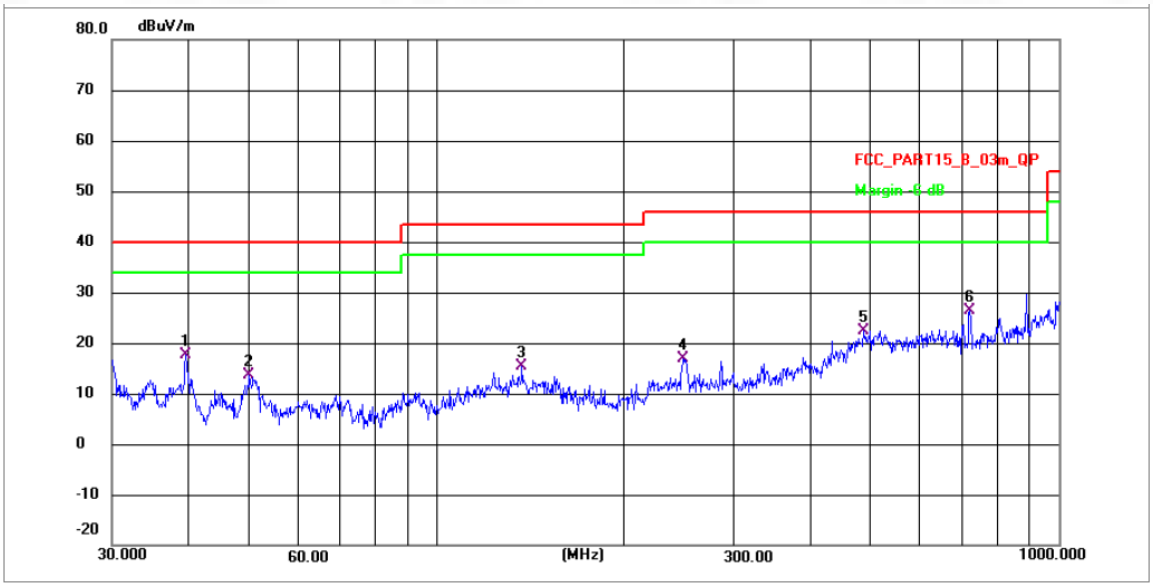
5.2.3 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	39.5757	36.14	-18.41	17.73	40.00	-22.27	QP	P
2	49.9689	32.02	-18.27	13.75	40.00	-26.25	QP	P
3	136.9391	43.30	-27.90	15.40	43.50	-28.10	QP	P
4	249.4250	42.71	-25.85	16.86	46.00	-29.14	QP	P
5	486.4614	43.86	-21.45	22.41	46.00	-23.59	QP	P
6 *	721.7259	50.06	-23.68	26.38	46.00	-19.62	QP	P

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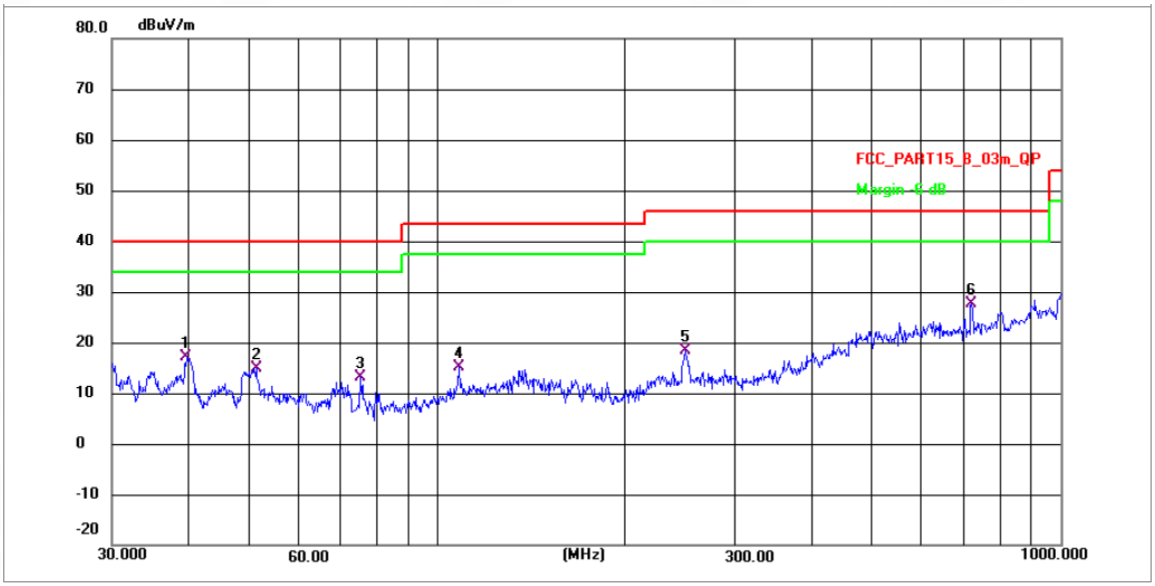
TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	39.7146	37.65	-20.53	17.12	40.00	-22.88	QP	P
2	51.2106	35.24	-20.30	14.94	40.00	-25.06	QP	P
3	75.4464	33.07	-19.90	13.17	40.00	-26.83	QP	P
4	108.2667	43.33	-28.15	15.18	43.50	-28.32	QP	P
5	249.8627	44.30	-25.85	18.45	46.00	-27.55	QP	P
6 *	720.4616	51.39	-23.66	27.73	46.00	-18.27	QP	P

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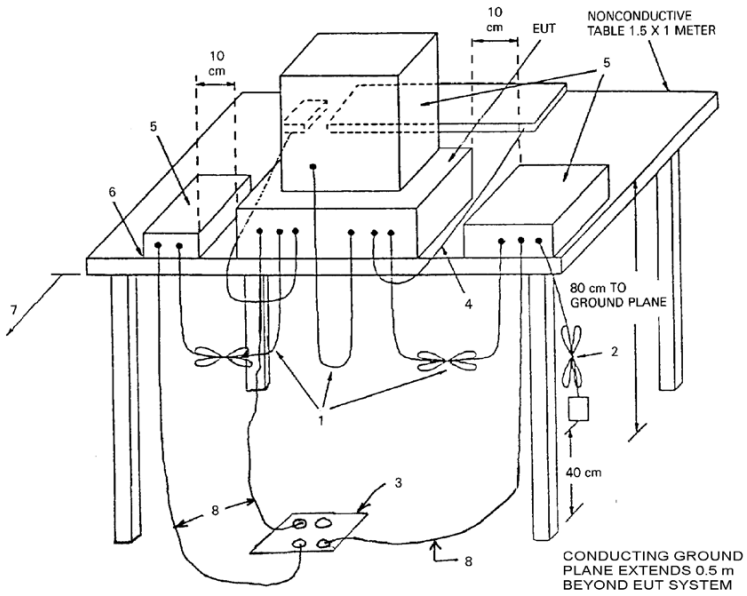
5.3 Radiated emissions (Above 1GHz)

Test Requirement:	15.109, Class B
Test Method:	ANSI C63.4-2014
Test Limit:	**Frequency of emission (MHz)** / **Field strength @3m**: **Average (uV/m)** 500; **Average(dBuV/m)** 54; **Peak (dBuV/m)** 74 (Above 1GHz)
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:	24 °C
Humidity:	48.6 %
Atmospheric Pressure:	1010 mbar

5.3.2 Test Setup Diagram:



5.3.3 Test Data:

TM1 / Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1206.687	80.45	-29.71	50.74	74.00	-23.26	peak	P
2	1457.716	82.24	-30.22	52.02	74.00	-21.98	peak	P
3	1677.042	83.90	-30.44	53.46	74.00	-20.54	peak	P
4	2657.312	80.47	-31.22	49.25	74.00	-24.75	peak	P
5	3790.982	82.50	-31.71	50.79	74.00	-23.21	peak	P
6	5081.712	84.91	-30.80	54.11	74.00	-19.89	peak	P

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TM1 / Polarization: Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1436.950	81.13	-29.78	51.35	74.00	-22.65	peak	P
2	1687.979	82.92	-30.29	52.63	74.00	-21.37	peak	P
3	1907.305	84.58	-30.51	54.07	74.00	-19.93	peak	P
4	2887.575	81.15	-31.29	49.86	74.00	-24.14	peak	P
5	4021.245	83.18	-31.78	51.40	74.00	-22.60	peak	P
6	5311.975	85.59	-30.87	54.72	74.00	-19.28	peak	P

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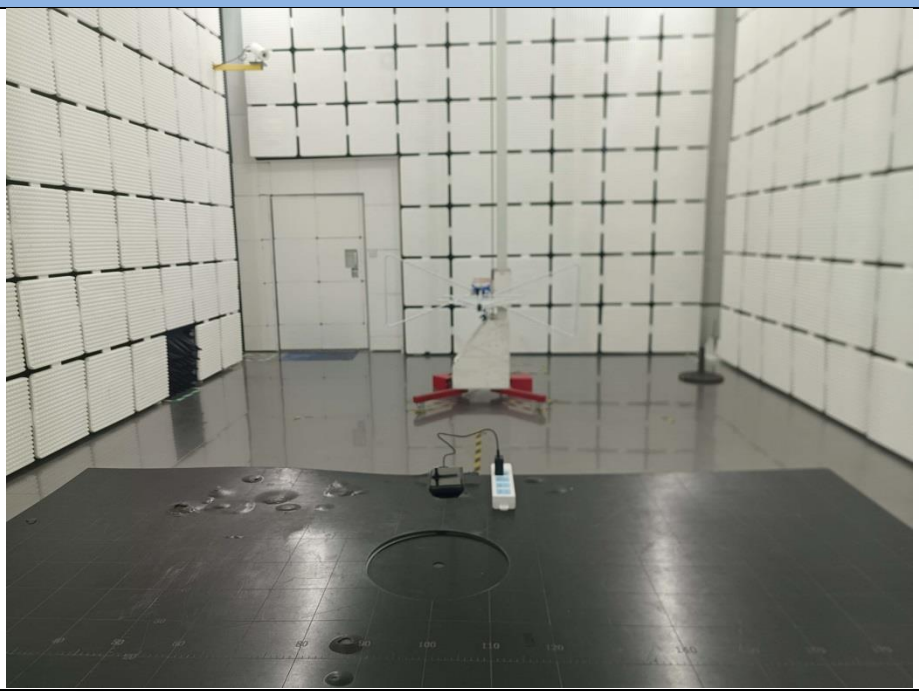
6 Test Setup Photos

Conducted emissions on AC mains


Radiated emissions (Below 1GHz)


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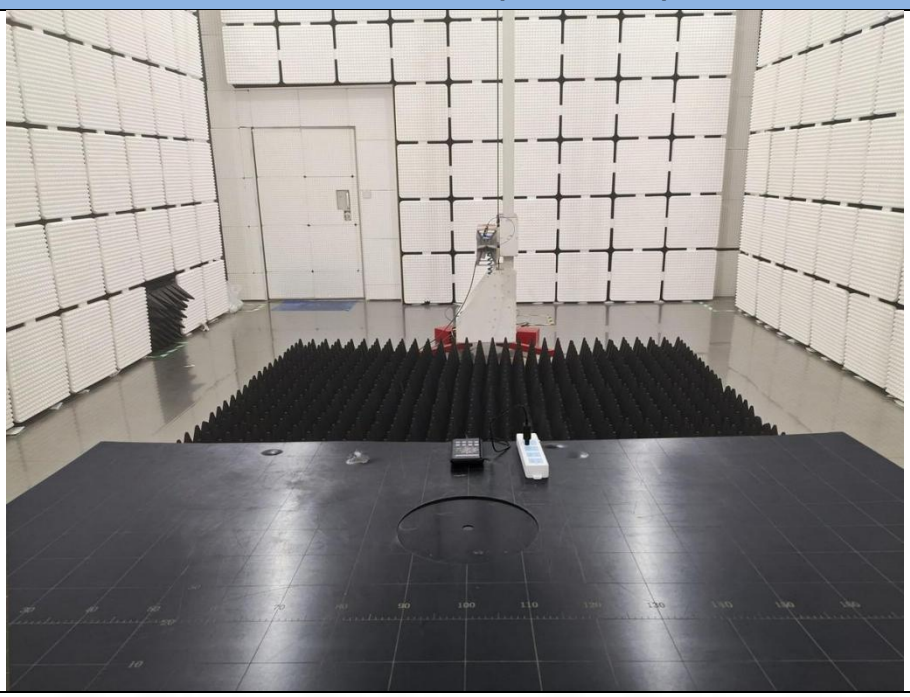
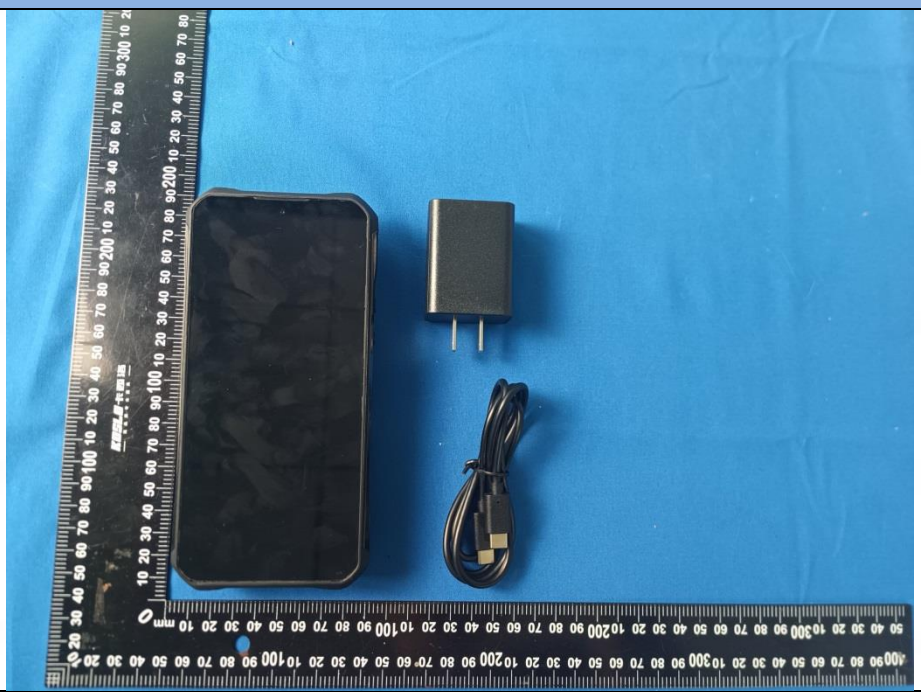
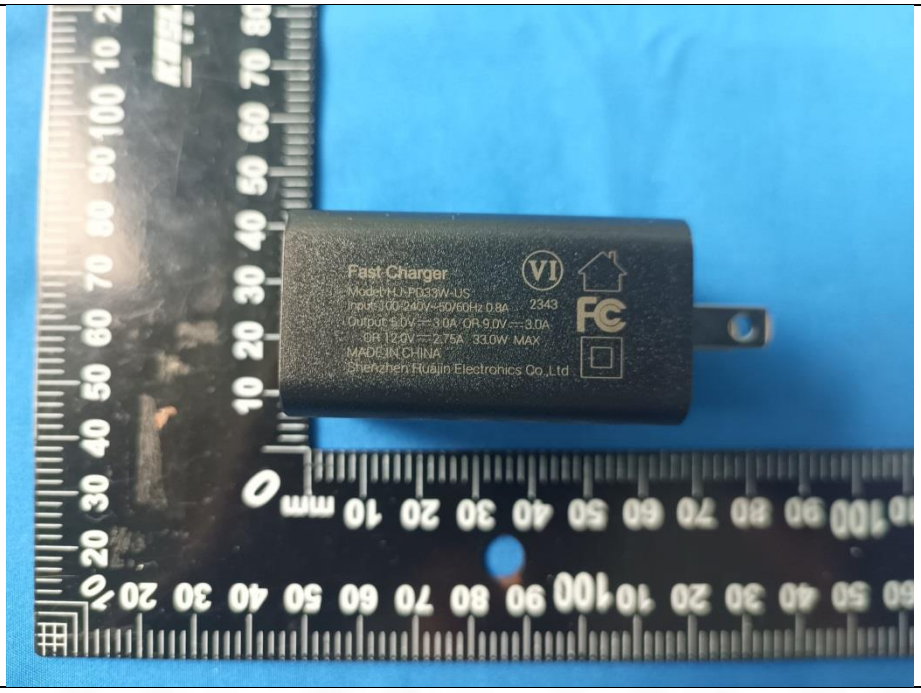
Radiated emissions (Above 1GHz)


7 EUT Constructional Details (EUT Photos)

External



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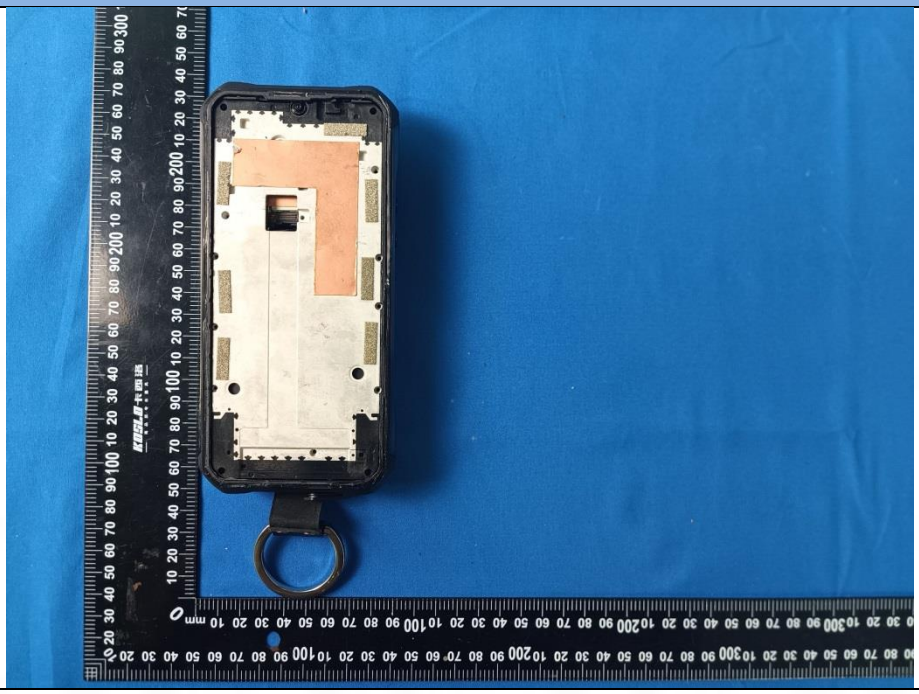
Internal


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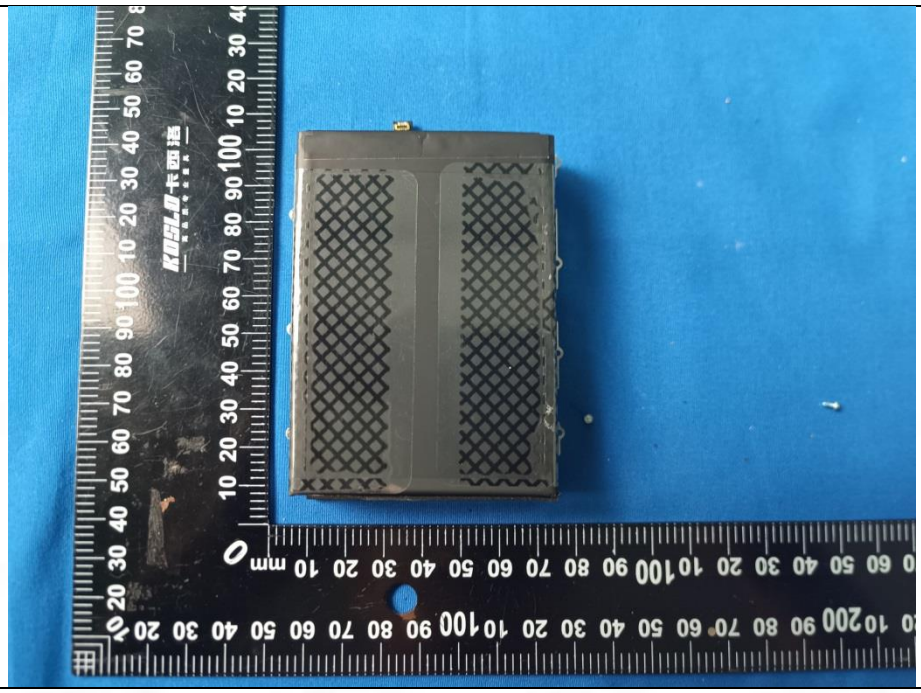

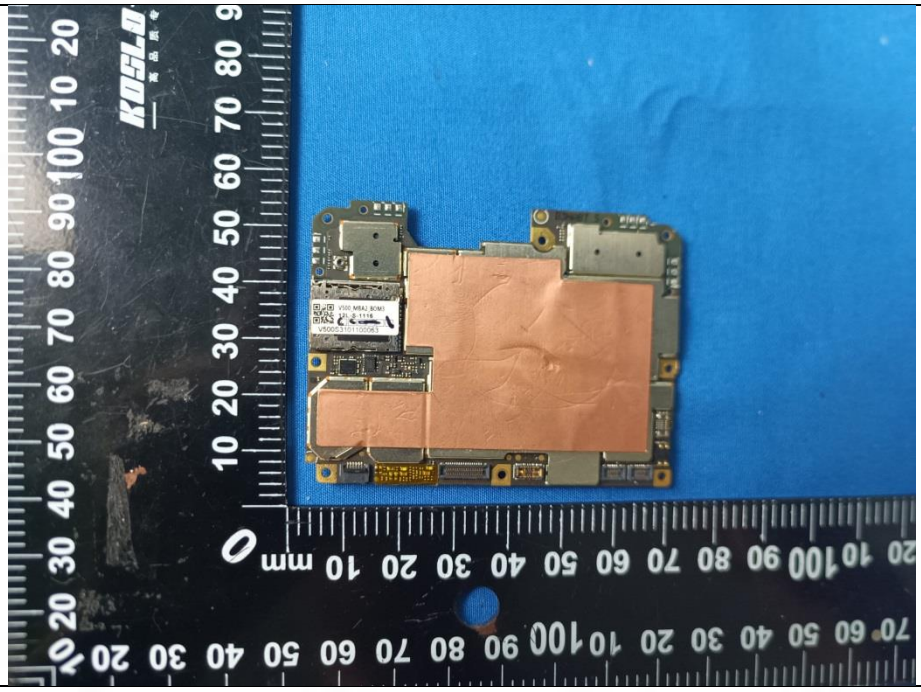

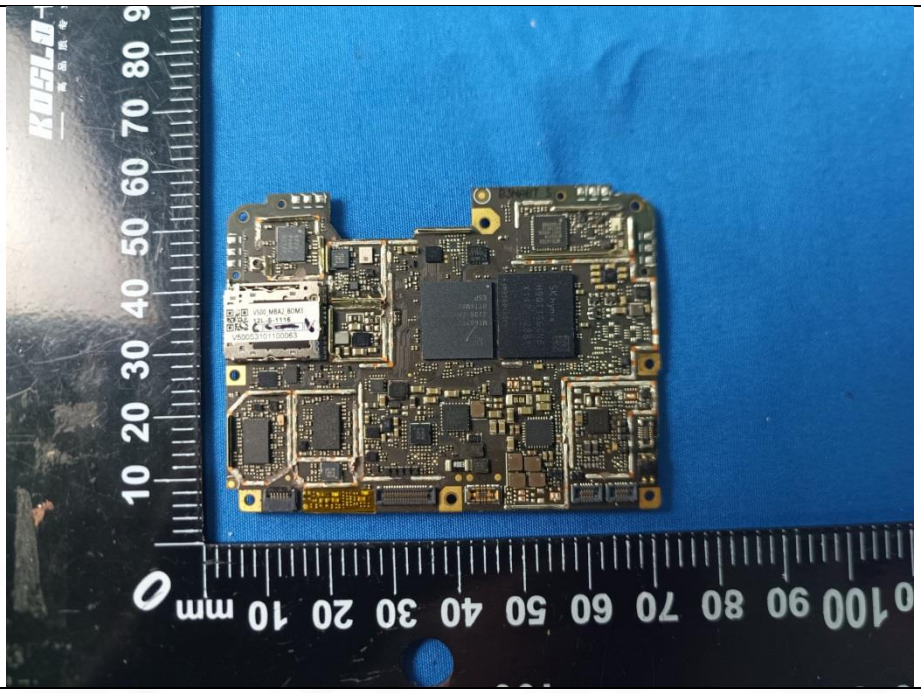

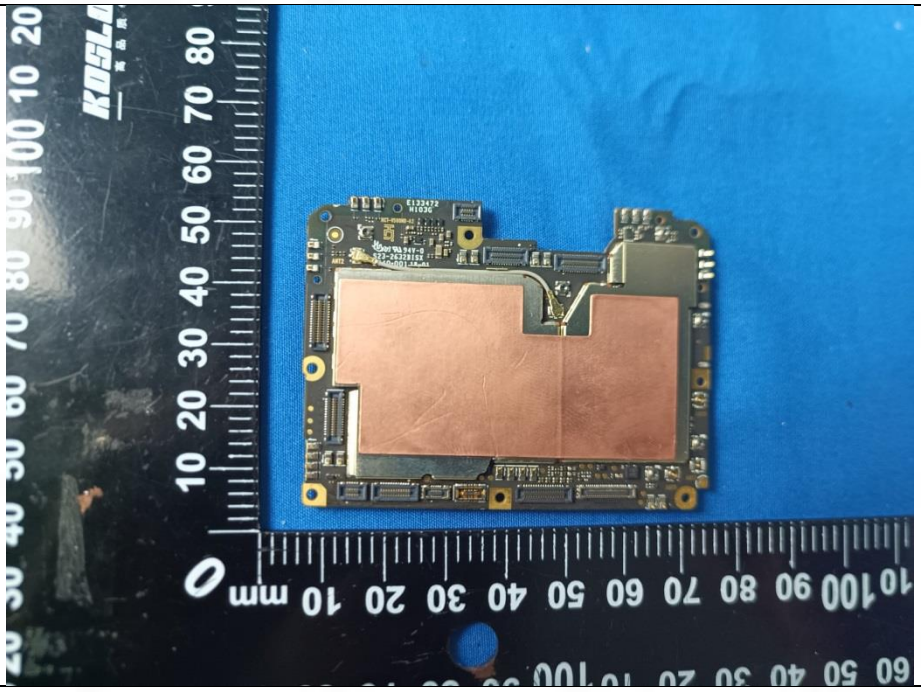

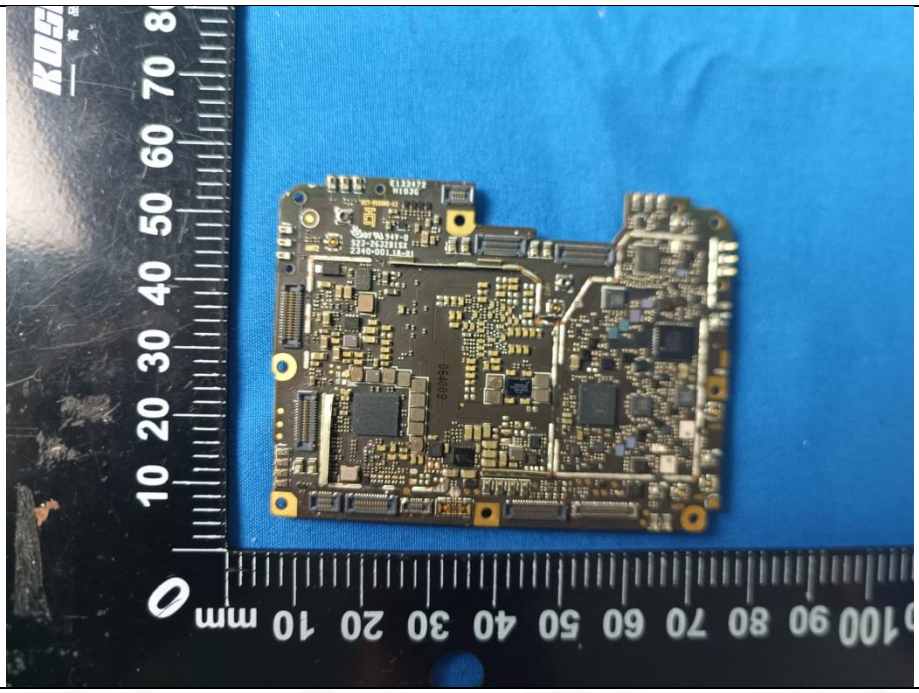

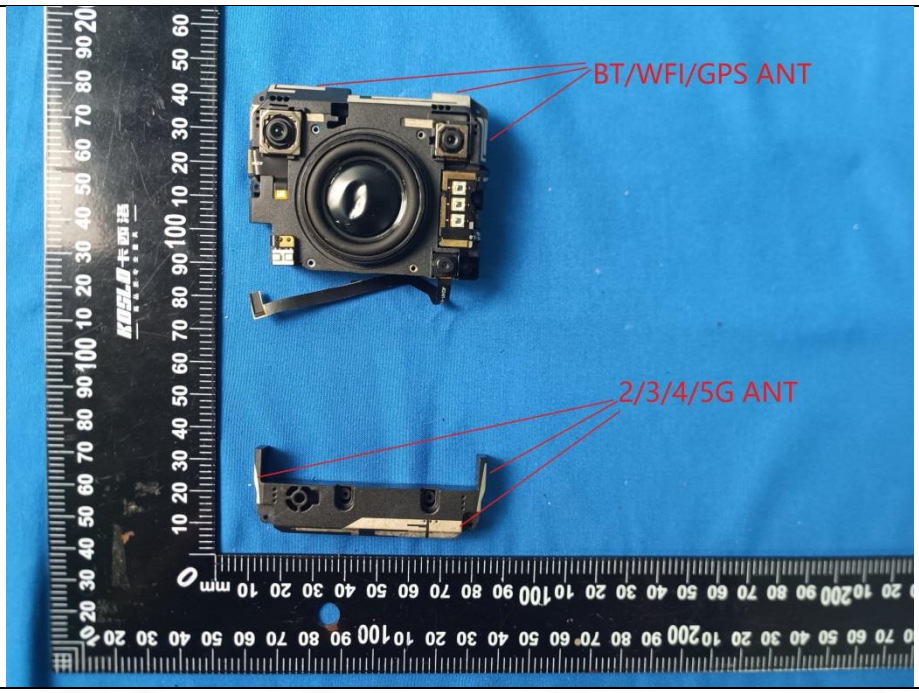

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-- END OF REPORT --

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