

# FCC EMC Test Report



Subject to  
Supplier's Declaration of Conformity  
Procedure

**Product :** Smart Phone  
**Trade Mark :** OUKITEL  
**Model Number :** WP55, WP55 Pro, WP55 S, WP55 Plus, WP55 Ultra, WP55 TITAN, WP55 GT, WP55 E

## Prepared for

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

## Prepared by

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**TEST RESULT CERTIFICATION****Applicant's Name** .....: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU

**Address** .....: INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN,

518XXX China

**Manufacturer's Name**.....: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD

A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU

**Address** .....: INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN,

518XXX China

**Product description****Product Name**.....: Smart Phone**Model Number** .....: WP55, WP55 Pro, WP55 S, WP55 Plus, WP55 Ultra, WP55 TITAN,

WP55 GT, WP55 E

**Standards** .....: 47 CFR FCC part 15 subpart B, 10-1-2024

ANSI C63.4:2014

This device described above has been tested by NTEK, 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 Sample Number** .....: S250220029006**Date of Test** .....:**Date (s) of performance of tests** .....: 18 Feb. 2025 ~ 10 Mar. 2025**Date of Issue** .....: 10 Mar. 2025**Test Result** .....: **Pass**

Testing Engineer

:



(Estelle Chen)

Technical Manager

:



(Sky Zhang)

Authorized Signatory

:



(Alex)

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## 1. TEST SUMMARY

Test procedures according to the technical standards:

| EMC Emission                                                  |                    |         |          |        |
|---------------------------------------------------------------|--------------------|---------|----------|--------|
| Standard                                                      | Test Item          | Limit   | Judgment | Remark |
| 47 CFR FCC part 15 subpart B,<br>10-1-2024<br>ANSI C63.4:2014 | Conducted Emission | Class B | PASS     |        |
|                                                               | Radiated Emission  | Class B | 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.

### 1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.

Add. : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)  
The Certificate Registration Number is L5516

ISED-Registration : The Company Number: 9270A.  
CAB identifier: CN0074.

FCC- Accredited : Test Firm Registration Number: 463705  
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01  
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

### 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** %.

| Test Item          | Measurement Frequency Range | K | U(dB) |
|--------------------|-----------------------------|---|-------|
| Conducted Emission | 0.009MHz ~ 0.15MHz          | 2 | 3.6   |
| Conducted Emission | 0.15MHz ~ 30MHz             | 2 | 3.1   |
| Radiated Emission  | 30MHz ~ 1000MHz             | 2 | 5.2   |
| Radiated Emission  | 1000MHz ~ 18000MHz          | 2 | 5.1   |



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                                                                                                                                                                  |                                                                                                                                                                     |                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Equipment                                                                                                                                                        | Smart Phone                                                                                                                                                         |                                          |
| Model Number                                                                                                                                                     | WP55                                                                                                                                                                |                                          |
| Additional Model Number(s)                                                                                                                                       | WP55 Pro, WP55 S, WP55 Plus, WP55 Ultra, WP55 TITAN, WP55 GT, WP55 E                                                                                                |                                          |
| Model Difference                                                                                                                                                 | All models are identical except model's name.                                                                                                                       |                                          |
| Product Description                                                                                                                                              | The EUT is a Smart Phone.                                                                                                                                           |                                          |
|                                                                                                                                                                  | Operating frequency:                                                                                                                                                | 2.5 GHz<br>(Declaration by Manufacturer) |
| Based on the application, features, or specification exhibited in User's Manual. More details of EUT technical specification, please refer to the User's Manual. |                                                                                                                                                                     |                                          |
| Power Source                                                                                                                                                     | AC / DC Voltage                                                                                                                                                     |                                          |
| Power Rating                                                                                                                                                     | Adapter Model: HJ-PD33W-US                                                                                                                                          |                                          |
|                                                                                                                                                                  | Adapter Rating:<br>Input: AC 100-240V, 50/60Hz, 0.8A Max.<br>Output: DC 5V, 3A or DC 9V, 3A or DC 12V, 2.75A 33W Max<br>Battery Rating: DC 3.87V, 11000mAh, 42.57Wh |                                          |

## 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. All test modes in the table below are tested, the worst case is listed on this report.

| Pretest Mode | Description                    |
|--------------|--------------------------------|
| Mode 1       | Charging + REC                 |
| Mode 2       | Data Transmission              |
| Mode 3       | Charging + TF Playing          |
| Mode 4       | FM(87.6MHz / 98MHz / 107.9MHz) |

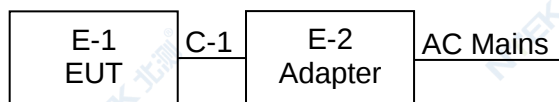
### For Conducted Test

| Final Test Mode | Description           |
|-----------------|-----------------------|
| Mode 1          | Charging + REC        |
| Mode 2          | Data Transmission     |
| Mode 3          | Charging + TF Playing |

### For Radiated Test

| Final Test Mode | Description                    |
|-----------------|--------------------------------|
| Mode 1          | Charging + REC                 |
| Mode 2          | Data Transmission              |
| Mode 3          | Charging + TF Playing          |
| Mode 4          | FM(87.6MHz / 98MHz / 107.9MHz) |

## 2.3 DESCRIPTION OF TEST SETUP



## 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   | Brand   | Model/Type No. | Series No. | Note |
|------|-------------|---------|----------------|------------|------|
| E-1  | Smart Phone | OUKITEL | WP55           | N/A        | EUT  |
| E-2  | Adapter     | HUAJIN  | HJ-PD33W-US    | N/A        | AE   |
|      |             |         |                |            |      |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| C-1  | YES           | NO           | 100cm  |      |
|      |               |              |        |      |
|      |               |              |        |      |

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" means "shielded" "with core"; "NO" means "unshielded" "without core".

## 2.5 MEASUREMENT INSTRUMENTS LIST

## 2.5.1 CONDUCTED TEST

| Item | Name of Equipment   | Manufacturer | Type No.  | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|---------------------|--------------|-----------|------------|------------------|------------------|--------------------|
| 1    | Single Phase LISN   | R&S          | ENV216    | 101490     | Apr. 25, 2024    | Apr. 24, 2025    | 1 year             |
| 2    | Single Phase LISN   | R&S          | ENV216    | 101313     | Apr. 25, 2024    | Apr. 24, 2025    | 1 year             |
| 3    | Three-Phase LISN    | SCHWARZBECK  | NNLK 8129 | 8129245    | Apr. 25, 2024    | Apr. 24, 2025    | 1 year             |
| 4    | Low Frequency Cable | N/A          | R-03      | N/A        | Apr. 25, 2024    | Apr. 24, 2027    | 3 years            |
| 5    | 50Ω Coaxial Switch  | Anritsu      | MP59B     | 6200983704 | Apr. 26, 2024    | Apr. 25, 2027    | 3 years            |
| 6    | EMI Test Receiver   | R&S          | ESCI      | 101160     | Apr. 26, 2024    | Apr. 25, 2025    | 1 year             |
| 7    | EMI Test Receiver   | R&S          | ESPI3     | 101417     | May 15, 2024     | May 14, 2025     | 1 year             |
| 8    | EMI Test Receiver   | R&S          | ESPI3     | 100145     | Apr. 26, 2024    | Apr. 25, 2025    | 1 year             |
| 9    | DC-AMN LISN         | SCHWARZBECK  | PVDC 8301 | 8301-00117 | Apr. 26, 2024    | Apr. 25, 2025    | 1 year             |
| 10   | Single Phase LISN   | R&S          | ENV216    | 102849     | Apr. 26, 2024    | Apr. 25, 2025    | 1 year             |
| 11   | Single Phase LISN   | R&S          | ENV216    | 102827     | Apr. 26, 2024    | Apr. 25, 2025    | 1 year             |

## 2.5.2 RADIATED TEST

| Item | Name of Equipment      | Manufacturer     | Type No.         | Serial No.  | Last calibration | Calibrated until | Calibration period |
|------|------------------------|------------------|------------------|-------------|------------------|------------------|--------------------|
| 1    | 3m Anechoic Chamber    | N/A              | 9*6*6            | N/A         | Jun. 07, 2024    | Jun. 06, 2027    | 3 years            |
| 2    | 3m Anechoic Chamber    | N/A              | 9*6*6            | N/A         | Jun. 18, 2024    | Jun. 17, 2027    | 3 years            |
| 3    | EMI Test Receiver      | R&S              | ESPI7            | 101318      | Apr. 26, 2024    | Apr. 25, 2025    | 1 year             |
| 4    | Bilog Antenna          | TESEQ            | CBL6111D         | 31216       | May 12, 2024     | May 11, 2025     | 1 year             |
| 5    | 50Ω Coaxial Switch     | Anritsu          | MP59B            | 6200983705  | Apr. 26, 2024    | Apr. 25, 2027    | 3 years            |
| 6    | Cable                  | Talent Microwave | A81-NWMS MAM-12M | 21120897    | Apr. 26, 2024    | Apr. 25, 2027    | 3 years            |
| 7    | Cable                  | Talent Microwave | A81-NMNM -10M    | 24012011    | Apr. 26, 2024    | Apr. 25, 2027    | 3 years            |
| 8    | Cable                  | Talent Microwave | A81-NMNM -10M    | 22084896    | Apr. 26, 2024    | Apr. 25, 2027    | 3 years            |
| 9    | Log-Periodic Antenna   | SCHWARZBECK      | VULB 9162        | 675         | May 18, 2024     | May 17, 2025     | 1 year             |
| 10   | Log-Periodic Antenna   | SCHWARZBECK      | VULB 9162        | 584         | May 25, 2024     | May 24, 2025     | 1 year             |
| 11   | Log-Periodic Antenna   | SCHWARZBECK      | VULB 9162        | 586         | May 12, 2024     | May 11, 2025     | 1 year             |
| 12   | Cable                  | Talent Microwave | A81-NMNM -2M     | 22084895    | Apr. 26, 2024    | Apr. 25, 2027    | 3 years            |
| 13   | Attenuator             | Eastsheep        | 5W-N-JK-6 G-6DB  | N/A         | Apr. 25, 2024    | Apr. 24, 2025    | 1 year             |
| 14   | Attenuator             | Eastsheep        | 5W-N-JK-6 G-6DB  | N/A         | Apr. 26, 2024    | Apr. 25, 2025    | 1 year             |
| 15   | Broadband Horn Antenna | EM               | EM-AH-101 80     | 201107140 2 | May 12, 2024     | May 11, 2027     | 3 years            |
| 16   | Broadband Horn Antenna | SCHWARZBECK      | BBHA 9120 D      | 2816        | May 18, 2024     | May 17, 2027     | 3 years            |
| 17   | Broadband Horn Antenna | SCHWARZBECK      | BBHA 9120 D      | 2817        | May 12, 2024     | May 11, 2027     | 3 years            |
| 18   | Spectrum Analyzer      | Keysight         | N9020A           | MY53280244  | Apr. 25, 2024    | Apr. 24, 2025    | 1 year             |
| 19   | Spectrum Analyzer      | Agilent          | E4440A           | MY41000130  | Apr. 26, 2024    | Apr. 25, 2025    | 1 year             |
| 20   | Pre-Amplifier          | EMC              | EMC05183 5SE     | 980246      | Apr. 25, 2024    | Apr. 24, 2025    | 1 year             |
| 21   | PREAMPLIFIER           | Agilent          | 8449B            | 30008A01520 | Apr. 26, 2024    | Apr. 25, 2025    | 1 year             |

|    |                           |                 |                           |             |               |               |         |
|----|---------------------------|-----------------|---------------------------|-------------|---------------|---------------|---------|
| 22 | Low Noise Amplifier       | B&Z             | BZ-P540-550<br>850-452727 | 16476-11729 | Apr. 25, 2024 | Apr. 24, 2025 | 1 year  |
| 23 | Cable                     | Keysight        | A40-2.92M<br>2.92M-2M     | 1808041     | Apr. 26, 2024 | Apr. 25, 2027 | 3 years |
| 24 | Broadband Horn<br>Antenna | SCHWARZB<br>ECK | BBHA 9170                 | 803         | May 12, 2024  | May 11, 2027  | 3 years |

## 2.6 MEASUREMENT SOFTWARE

| CONDUCTED TEST |              |                |
|----------------|--------------|----------------|
| Software name  | Manufacturer | Version number |
| EZ-EMC_CE      | Farad        | AIT-03A        |
| RADIATED TEST  |              |                |
| Software name  | Manufacturer | Version number |
| EZ-EMC_RE      | Farad        | EMEC-3A1+      |

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

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

| Frequency Range (MHz) | <input type="checkbox"/> Class A (dB $\mu$ V) |         | <input checked="" type="checkbox"/> Class B (dB $\mu$ V) |           |
|-----------------------|-----------------------------------------------|---------|----------------------------------------------------------|-----------|
|                       | 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.

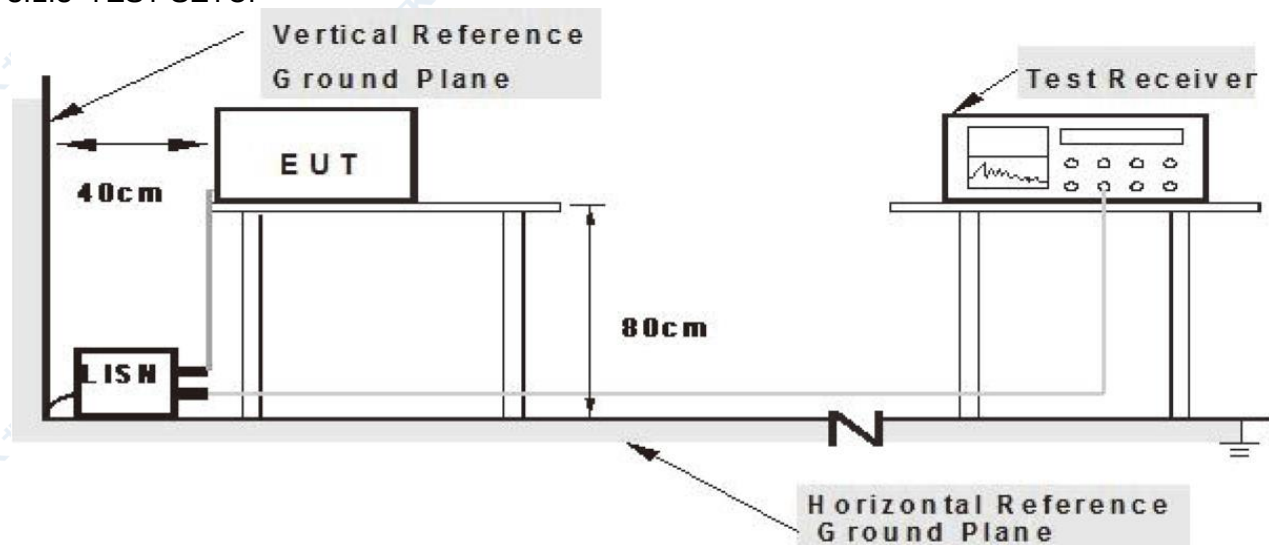
The following table is the setting of the receiver

| 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



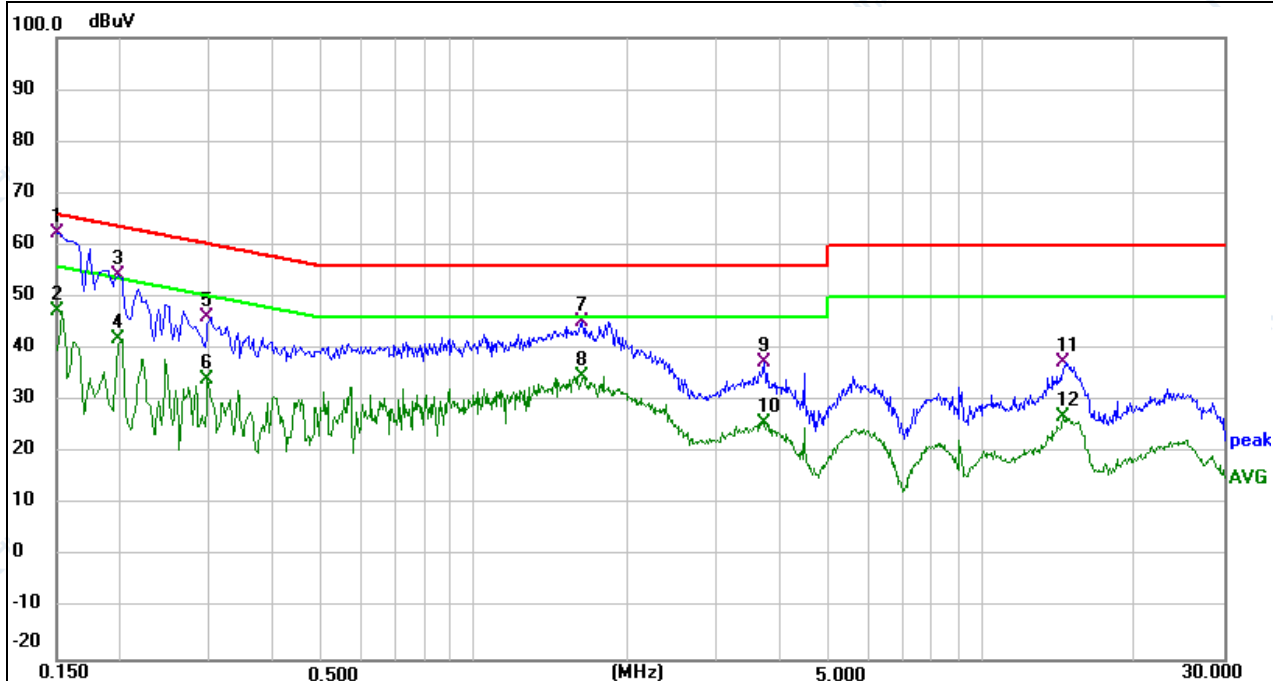
**Note: 1. Support units were connected to second LISN.  
2. Both of LISN's (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

##### 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:          | Smart Phone                            | Model Name:        | WP55       |
| Temperature:  | 23.4℃                                  | Relative Humidity: | 41.5%RH    |
| Pressure:     | 1010hPa                                | Test Date:         | 2025-02-25 |
| Test Mode:    | Data Transmission                      | Phase:             | L          |
| Test Voltage: | DC 5V powered by Notebook AC 120V/60Hz |                    |            |



| No. | Frequency (MHz) | Reading ( ) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|-------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 * | 0.1500          | 53.04       | 9.44        | 62.48        | 66.00        | -3.52       | QP       | P   |        |
| 2   | 0.1500          | 37.99       | 9.44        | 47.43        | 56.00        | -8.57       | AVG      | P   |        |
| 3   | 0.1980          | 44.86       | 9.51        | 54.37        | 63.69        | -9.32       | QP       | P   |        |
| 4   | 0.1980          | 32.50       | 9.51        | 42.01        | 53.69        | -11.68      | AVG      | P   |        |
| 5   | 0.2980          | 36.44       | 9.70        | 46.14        | 60.30        | -14.16      | QP       | P   |        |
| 6   | 0.2980          | 24.59       | 9.70        | 34.29        | 50.30        | -16.01      | AVG      | P   |        |
| 7   | 1.6340          | 33.02       | 12.30       | 45.32        | 56.00        | -10.68      | QP       | P   |        |
| 8   | 1.6340          | 22.33       | 12.30       | 34.63        | 46.00        | -11.37      | AVG      | P   |        |
| 9   | 3.7260          | 28.34       | 9.21        | 37.55        | 56.00        | -18.45      | QP       | P   |        |
| 10  | 3.7260          | 16.62       | 9.21        | 25.83        | 46.00        | -20.17      | AVG      | P   |        |
| 11  | 14.4940         | 26.44       | 10.94       | 37.38        | 60.00        | -22.62      | QP       | P   |        |
| 12  | 14.4940         | 15.90       | 10.94       | 26.84        | 50.00        | -23.16      | AVG      | P   |        |

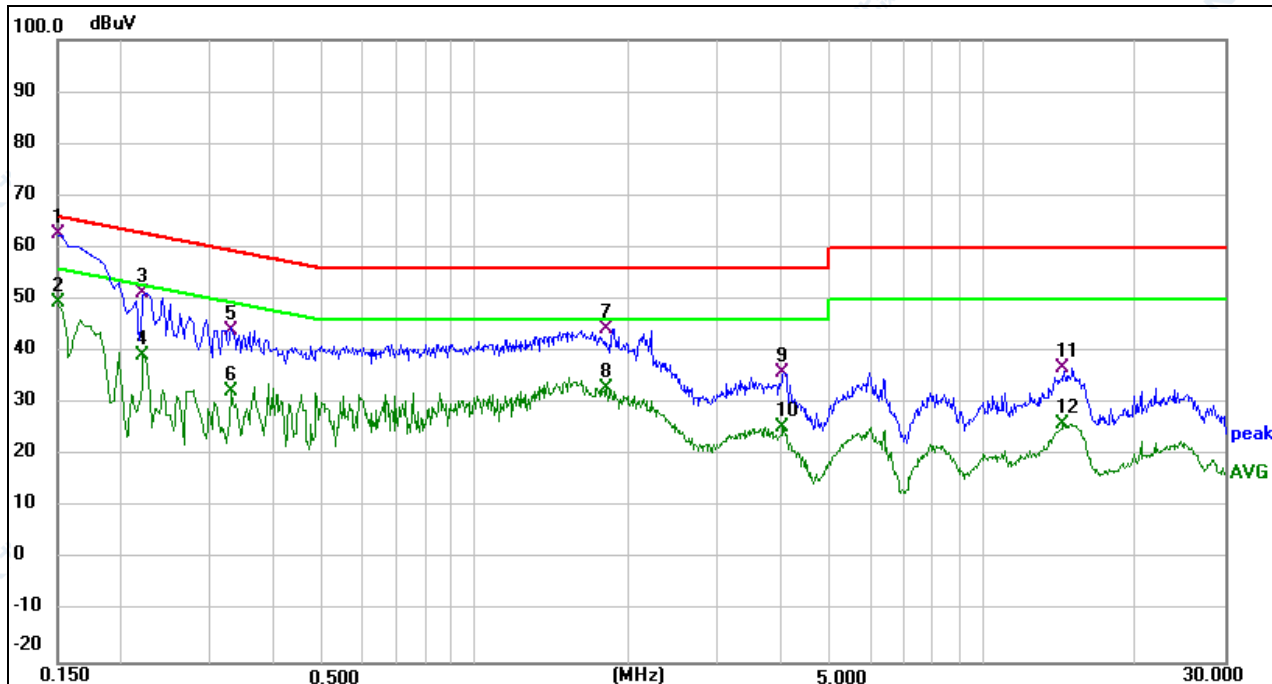
Remark:

Correct Factor = Insertion Loss + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

|               |                                        |                    |            |
|---------------|----------------------------------------|--------------------|------------|
| EUT:          | Smart Phone                            | Model Name:        | WP55       |
| Temperature:  | 23.4°C                                 | Relative Humidity: | 41.5%RH    |
| Pressure:     | 1010hPa                                | Test Date:         | 2025-02-25 |
| Test Mode:    | Data Transmission                      | Phase:             | N          |
| Test Voltage: | DC 5V powered by Notebook AC 120V/60Hz |                    |            |



| No. | Frequency (MHz) | Reading () | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 * | 0.1500          | 53.11      | 9.44        | 62.55        | 66.00        | -3.45       | QP       | P   |        |
| 2   | 0.1500          | 40.05      | 9.44        | 49.49        | 56.00        | -6.51       | AVG      | P   |        |
| 3   | 0.2220          | 41.68      | 9.56        | 51.24        | 62.74        | -11.50      | QP       | P   |        |
| 4   | 0.2220          | 29.71      | 9.56        | 39.27        | 52.74        | -13.47      | AVG      | P   |        |
| 5   | 0.3300          | 34.43      | 9.75        | 44.18        | 59.45        | -15.27      | QP       | P   |        |
| 6   | 0.3300          | 22.45      | 9.75        | 32.20        | 49.45        | -17.25      | AVG      | P   |        |
| 7   | 1.8180          | 31.65      | 12.69       | 44.34        | 56.00        | -11.66      | QP       | P   |        |
| 8   | 1.8180          | 20.33      | 12.69       | 33.02        | 46.00        | -12.98      | AVG      | P   |        |
| 9   | 4.0340          | 26.76      | 9.24        | 36.00        | 56.00        | -20.00      | QP       | P   |        |
| 10  | 4.0340          | 16.17      | 9.24        | 25.41        | 46.00        | -20.59      | AVG      | P   |        |
| 11  | 14.4340         | 26.05      | 10.93       | 36.98        | 60.00        | -23.02      | QP       | P   |        |
| 12  | 14.4340         | 15.22      | 10.93       | 26.15        | 50.00        | -23.85      | AVG      | P   |        |

Remark:

Correct Factor = Insertion Loss + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

## 3.2 RADIATED EMISSION MEASUREMENT

## 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

| FREQUENCY (MHz) | At 3m                                           |                                                            |
|-----------------|-------------------------------------------------|------------------------------------------------------------|
|                 | <input type="checkbox"/> Class A (dB $\mu$ V/m) | <input checked="" type="checkbox"/> Class B (dB $\mu$ V/m) |
| 30 ~ 88         | 49.5                                            | 40.0                                                       |
| 88 ~ 216        | 53.9                                            | 43.5                                                       |
| 216 ~ 960       | 56.9                                            | 46.0                                                       |
| 960 ~ 1000      | 60.0                                            | 54.0                                                       |

## 3.2.2 LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | At 3m                                           |      |                                                            |      |
|-----------------|-------------------------------------------------|------|------------------------------------------------------------|------|
|                 | <input type="checkbox"/> Class A (dB $\mu$ V/m) |      | <input checked="" type="checkbox"/> Class B (dB $\mu$ V/m) |      |
|                 | Average                                         | Peak | Average                                                    | Peak |
| Above 1000      | 60                                              | 80   | 54                                                         | 74   |

Note:

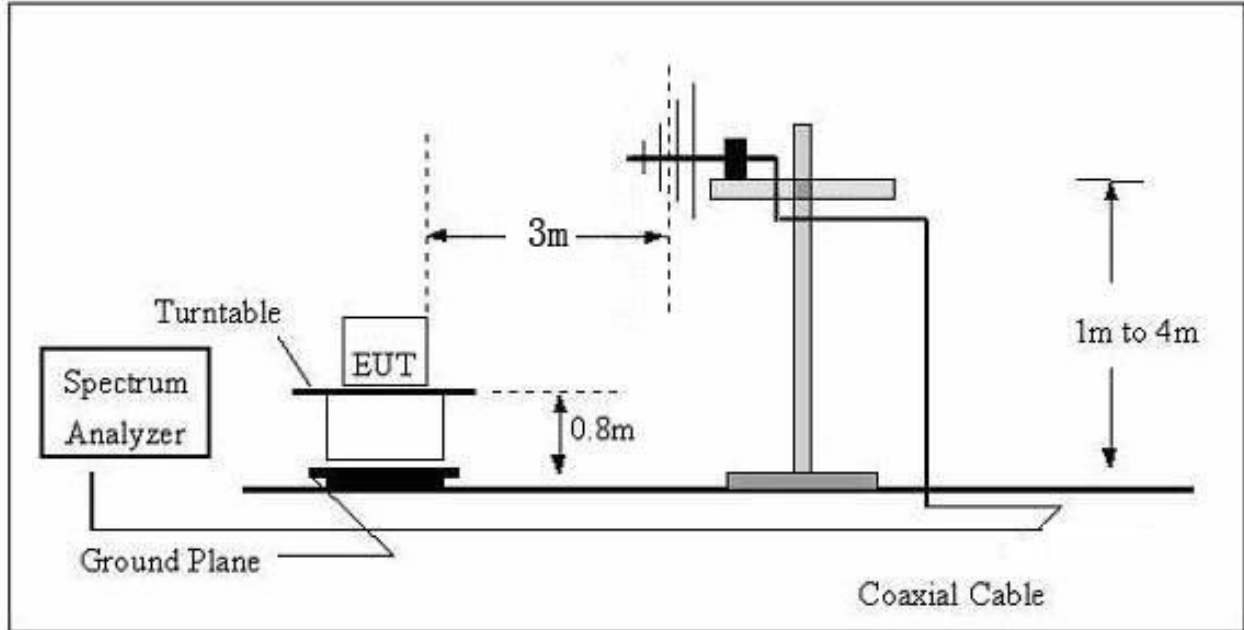
- (1) The limit for radiated test was performed according to as following: FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dB $\mu$ V/m)=20log Emission level ( $\mu$ V/m).

## 3.2.3 TEST PROCEDURE

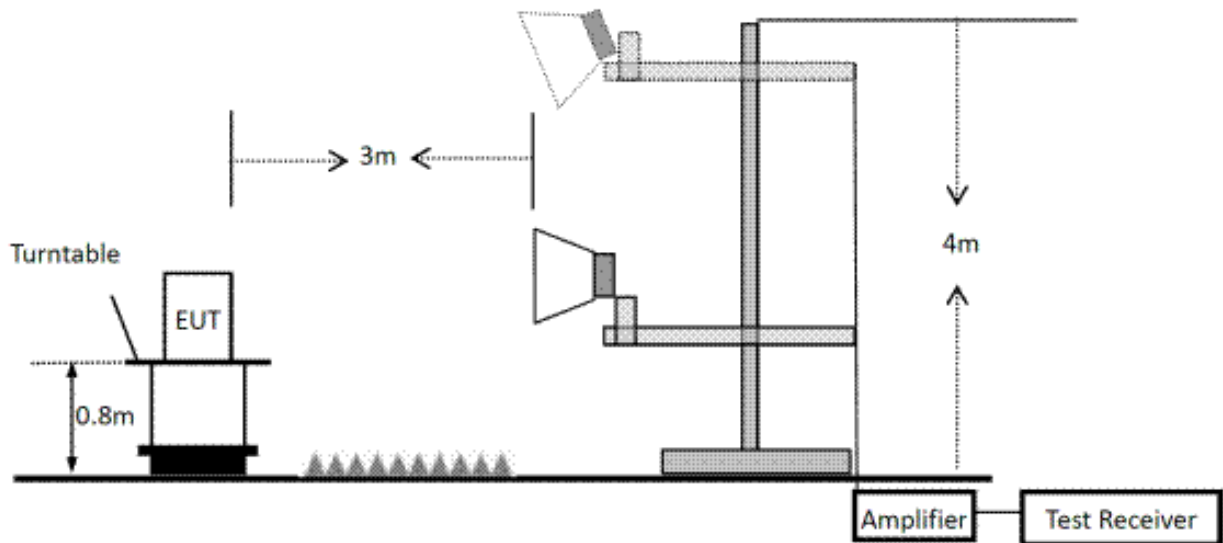
- a. The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated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

### 3.2.4 TEST SETUP

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



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

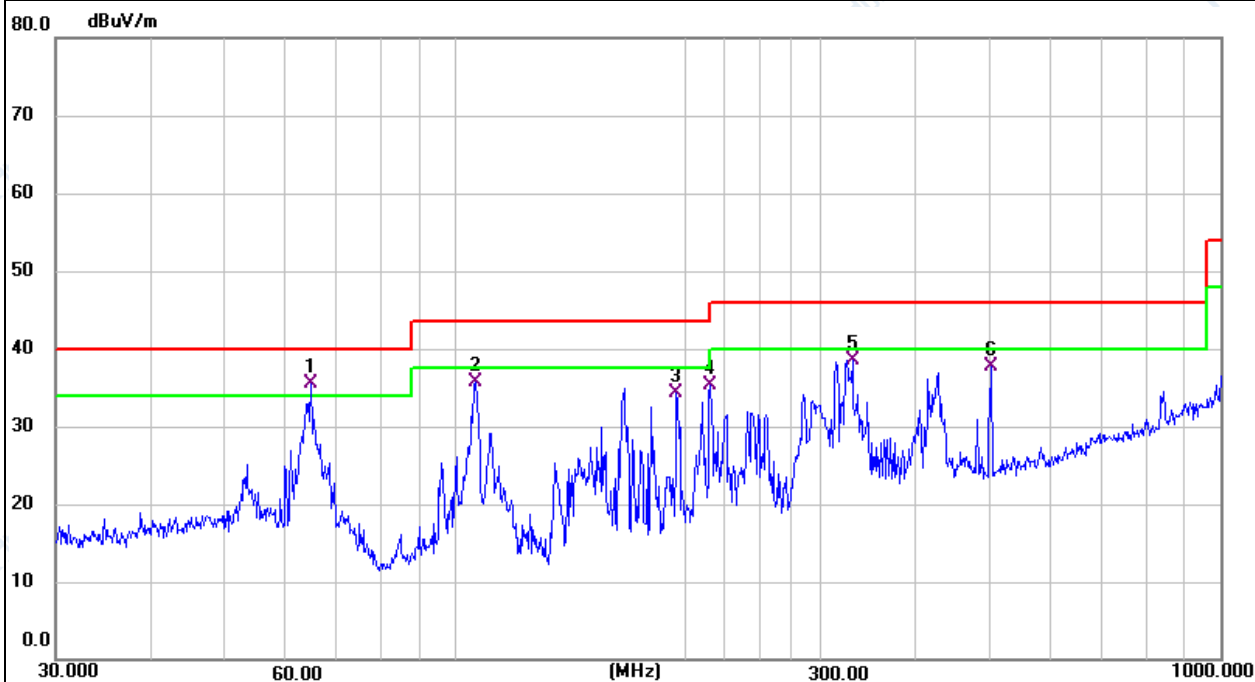


### 3.2.5 EUT OPERATING CONDITIONS

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.

## 3.2.6 TEST RESULTS (30-1000MHz)

|              |                           |                    |            |
|--------------|---------------------------|--------------------|------------|
| EUT:         | Smart Phone               | Model Name:        | WP55       |
| Temperature: | 25.2°C                    | Relative Humidity: | 54%RH      |
| Pressure:    | 1010hPa                   | Test Date:         | 2025-03-10 |
| Test Mode:   | Data Transmission         | Polarization:      | Horizontal |
| Test Power:  | DC 5V powered by Notebook |                    |            |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 64.6594         | 17.85          | 17.63         | 35.48          | 40.00          | -4.52       | QP       |             |                | P   |        |
| 2   | 106.0126        | 17.85          | 17.85         | 35.70          | 43.50          | -7.80       | QP       |             |                | P   |        |
| 3   | 194.4534        | 16.95          | 17.41         | 34.36          | 43.50          | -9.14       | QP       |             |                | P   |        |
| 4   | 215.2678        | 17.38          | 17.88         | 35.26          | 43.50          | -8.24       | QP       |             |                | P   |        |
| 5   | 330.1948        | 17.52          | 20.95         | 38.47          | 46.00          | -7.53       | QP       |             |                | P   |        |
| 6   | 501.1790        | 13.60          | 24.16         | 37.76          | 46.00          | -8.24       | QP       |             |                | P   |        |

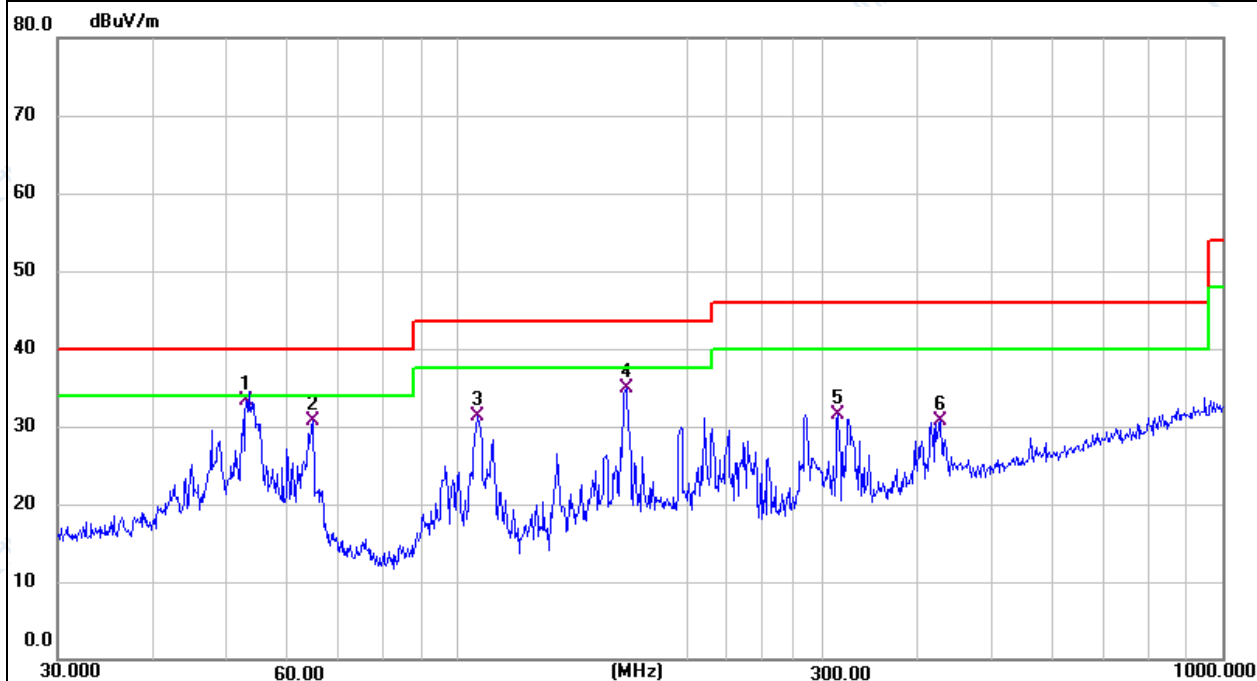
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

|              |                           |                    |            |
|--------------|---------------------------|--------------------|------------|
| EUT:         | Smart Phone               | Model Name:        | WP55       |
| Temperature: | 25.2°C                    | Relative Humidity: | 54%RH      |
| Pressure:    | 1010hPa                   | Test Date:         | 2025-03-10 |
| Test Mode:   | Data Transmission         | Polarization:      | Vertical   |
| Test Power:  | DC 5V powered by Notebook |                    |            |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 52.9453         | 13.90          | 19.36         | 33.26          | 40.00          | -6.74       | QP       |             |                | P   |        |
| 2   | 64.6594         | 13.01          | 17.63         | 30.64          | 40.00          | -9.36       | QP       |             |                | P   |        |
| 3   | 106.0126        | 13.36          | 17.85         | 31.21          | 43.50          | -12.29      | QP       |             |                | P   |        |
| 4   | 166.0680        | 19.74          | 15.12         | 34.86          | 43.50          | -8.64       | QP       |             |                | P   |        |
| 5   | 314.3764        | 10.92          | 20.51         | 31.43          | 46.00          | -14.57      | QP       |             |                | P   |        |
| 6   | 428.0192        | 7.82           | 22.97         | 30.79          | 46.00          | -15.21      | QP       |             |                | P   |        |

Remark:

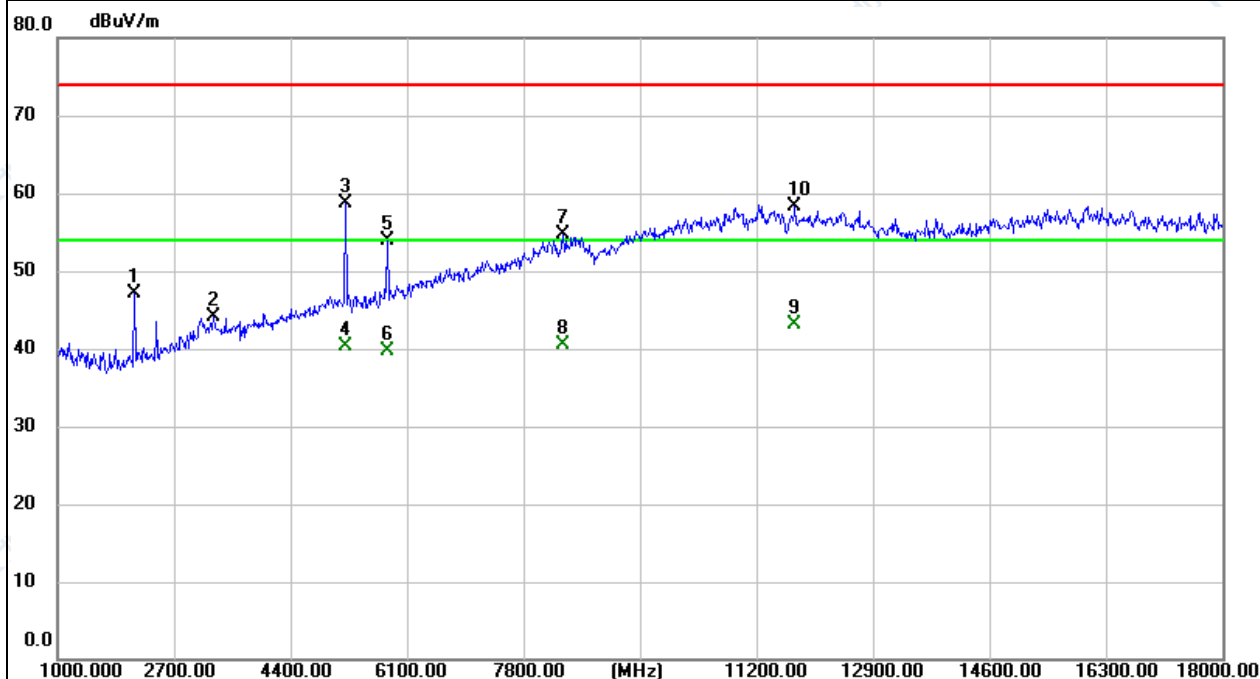
Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

## 3.2.7 TEST RESULTS (Above 1000MHz)

|              |                |                    |            |
|--------------|----------------|--------------------|------------|
| EUT:         | Smart Phone    | Model Name:        | WP55       |
| Temperature: | 24.1℃          | Relative Humidity: | 52%RH      |
| Pressure:    | 1010hPa        | Test Date:         | 2025-02-24 |
| Test Mode:   | Charging + REC | Polarization:      | Horizontal |
| Test Power:  | AC 120V/60Hz   |                    |            |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2122.000        | 53.01          | -5.85         | 47.16          | 74.00          | -26.84      | peak     |             |                | P   |        |
| 2   | 3278.000        | 46.61          | -2.52         | 44.09          | 74.00          | -29.91      | peak     |             |                | P   |        |
| 3   | 5199.000        | 56.43          | 2.24          | 58.67          | 74.00          | -15.33      | peak     |             |                | P   |        |
| 4   | 5202.700        | 37.99          | 2.23          | 40.22          | 54.00          | -13.78      | AVG      |             |                | P   |        |
| 5   | 5811.000        | 50.58          | 3.34          | 53.92          | 74.00          | -20.08      | peak     |             |                | P   |        |
| 6   | 5817.300        | 36.30          | 3.36          | 39.66          | 54.00          | -14.34      | AVG      |             |                | P   |        |
| 7   | 8378.000        | 46.73          | 7.90          | 54.63          | 74.00          | -19.37      | peak     |             |                | P   |        |
| 8   | 8380.310        | 32.63          | 7.90          | 40.53          | 54.00          | -13.47      | AVG      |             |                | P   |        |
| 9 * | 11755.740       | 31.69          | 11.37         | 43.06          | 54.00          | -10.94      | AVG      |             |                | P   |        |
| 10  | 11761.000       | 46.91          | 11.37         | 58.28          | 74.00          | -15.72      | peak     |             |                | P   |        |

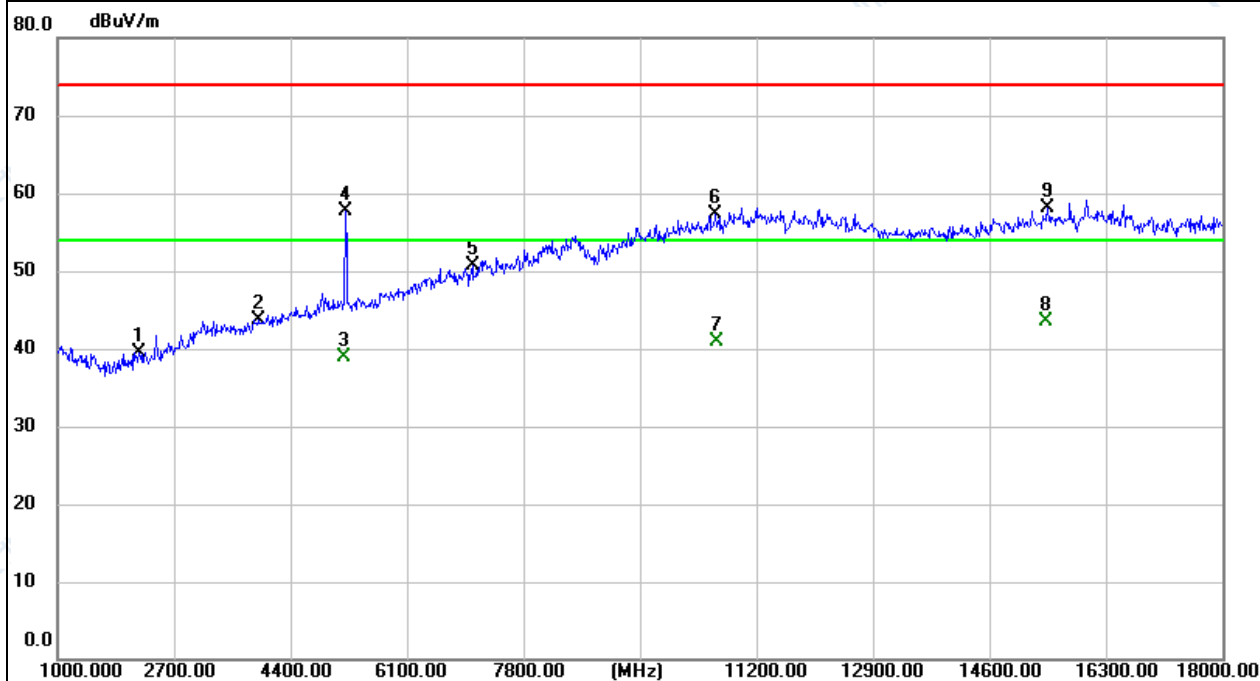
Remark:

Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

Over Level = Measurement Level - Limit

|              |                |                    |            |
|--------------|----------------|--------------------|------------|
| EUT:         | Smart Phone    | Model Name:        | WP55       |
| Temperature: | 24.1°C         | Relative Humidity: | 52%RH      |
| Pressure:    | 1010hPa        | Test Date:         | 2025-02-24 |
| Test Mode:   | Charging + REC | Polarization:      | Vertical   |
| Test Power:  | AC 120V/60Hz   |                    |            |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2190.000        | 45.23          | -5.65         | 39.58          | 74.00          | -34.42      | peak     |             |                | P   |        |
| 2   | 3924.000        | 44.70          | -0.93         | 43.77          | 74.00          | -30.23      | peak     |             |                | P   |        |
| 3   | 5195.700        | 36.67          | 2.24          | 38.91          | 54.00          | -15.09      | AVG      |             |                | P   |        |
| 4   | 5199.000        | 55.53          | 2.24          | 57.77          | 74.00          | -16.23      | peak     |             |                | P   |        |
| 5   | 7052.000        | 44.28          | 6.46          | 50.74          | 74.00          | -23.26      | peak     |             |                | P   |        |
| 6   | 10605.000       | 45.53          | 11.71         | 57.24          | 74.00          | -16.76      | peak     |             |                | P   |        |
| 7   | 10623.100       | 29.11          | 11.74         | 40.85          | 54.00          | -13.15      | AVG      |             |                | P   |        |
| 8 * | 15443.800       | 29.71          | 13.80         | 43.51          | 54.00          | -10.49      | AVG      |             |                | P   |        |
| 9   | 15450.000       | 44.24          | 13.80         | 58.04          | 74.00          | -15.96      | peak     |             |                | P   |        |

Remark:

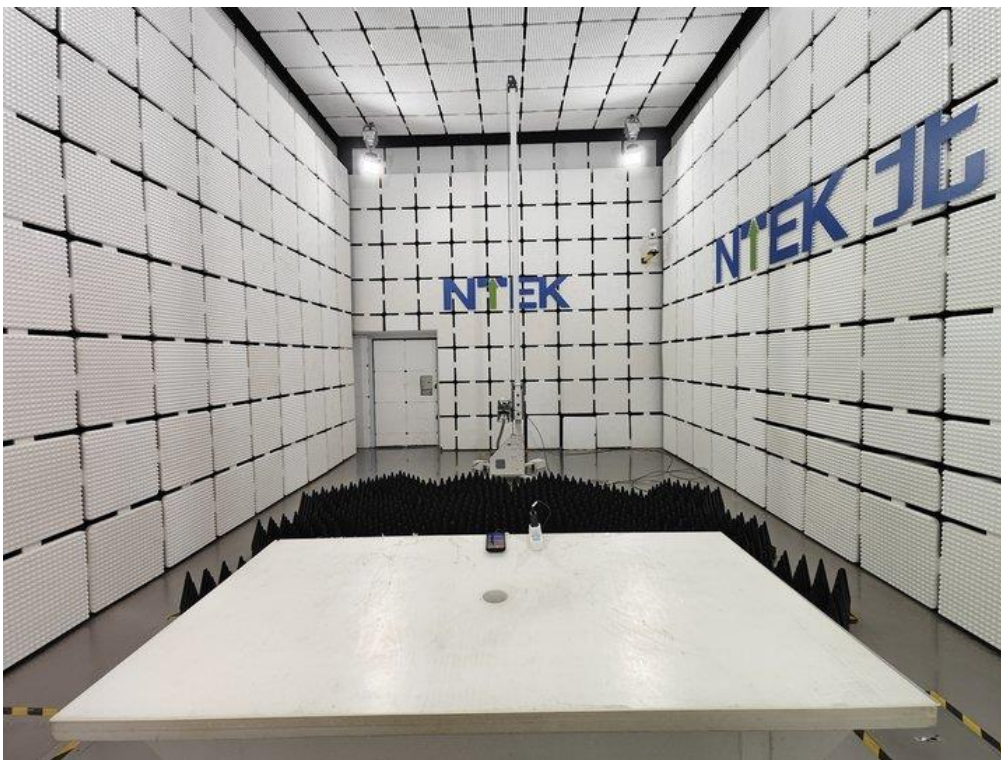
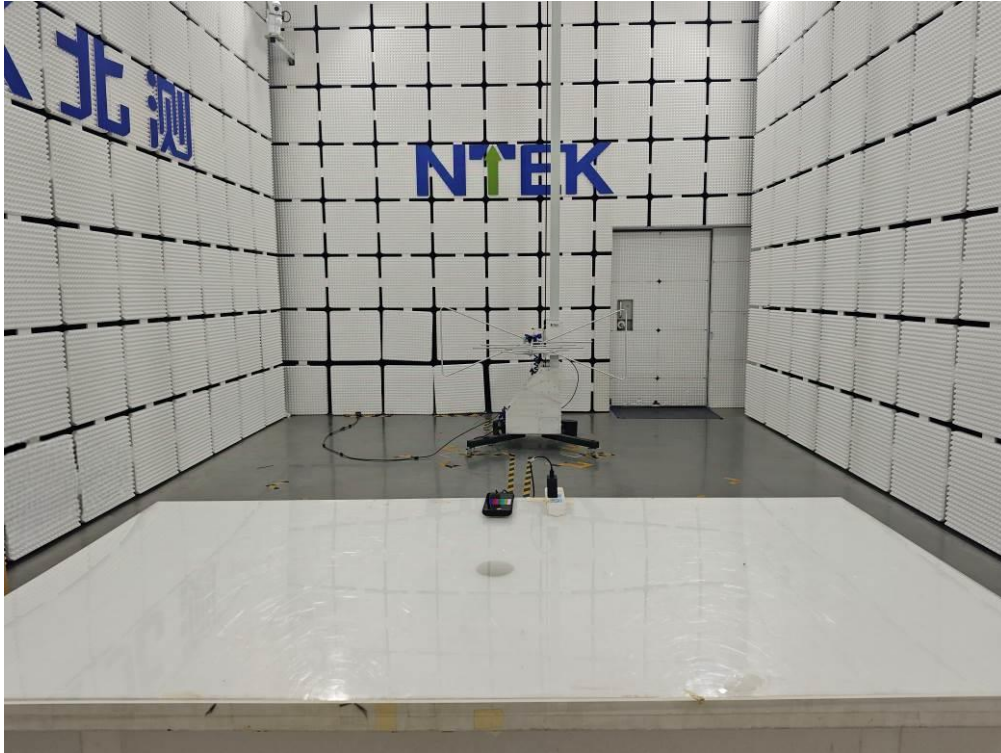
Correct Factor = Antenna Factor + Cable Loss

Measurement Level = Reading Level + Correct Factor

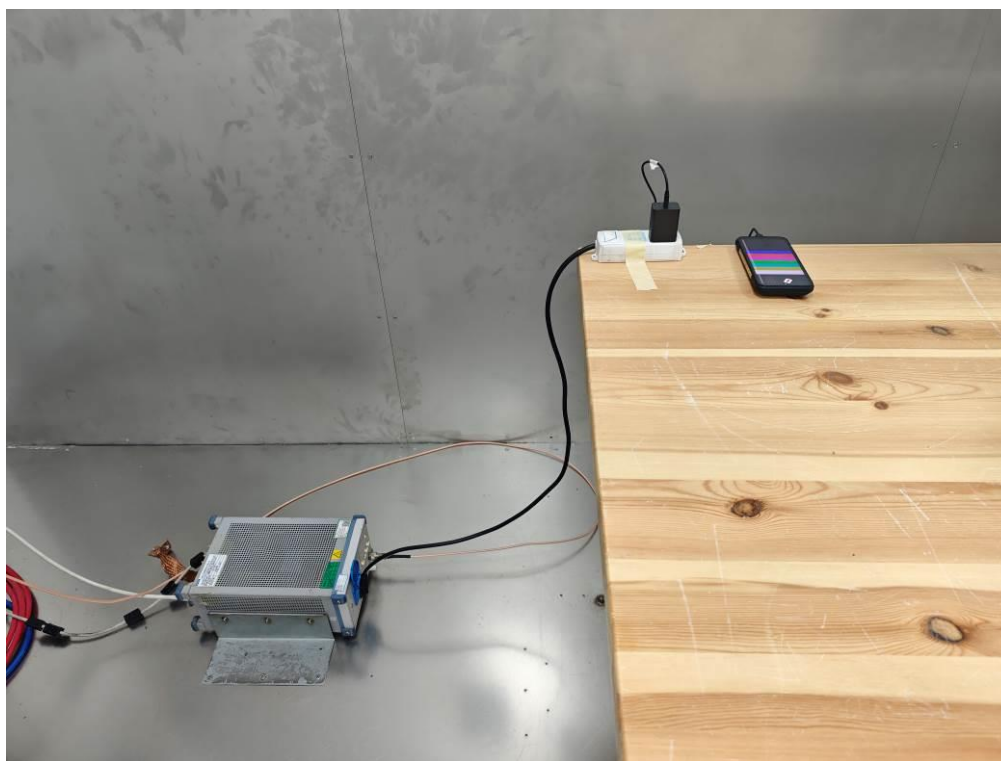
Over Level = Measurement Level - Limit

#### 4. EUT TEST PHOTO

Radiated Measurement Photo



Conducted Measurement Photo



# ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1



Photo 2



Photo 3

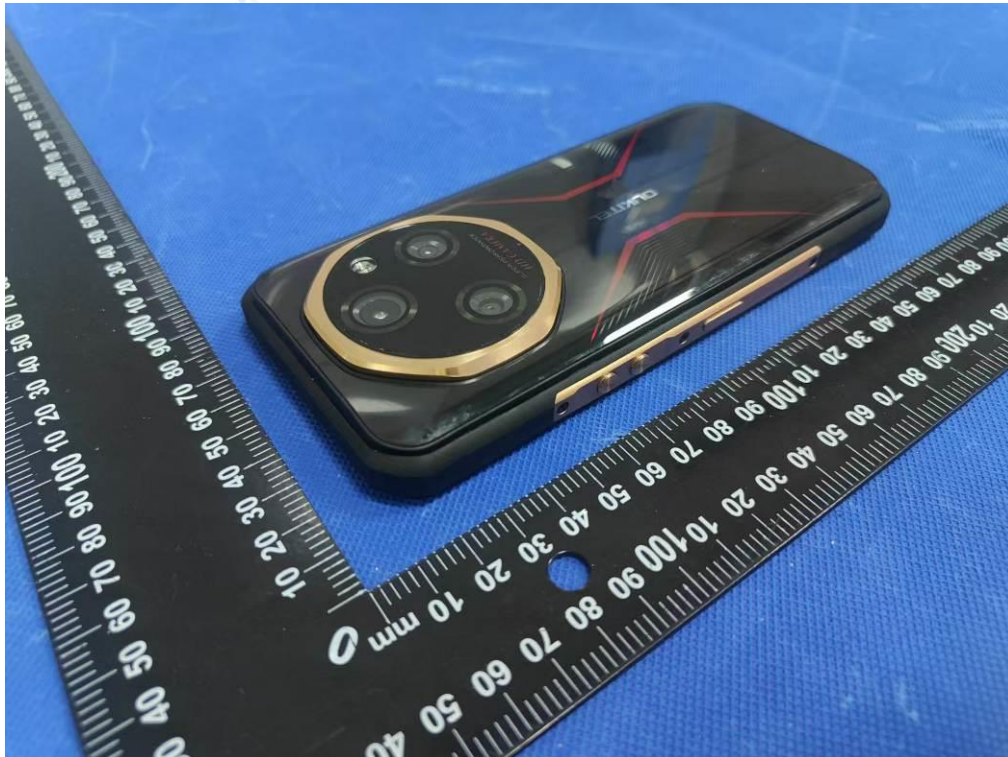


Photo 4



Photo 5

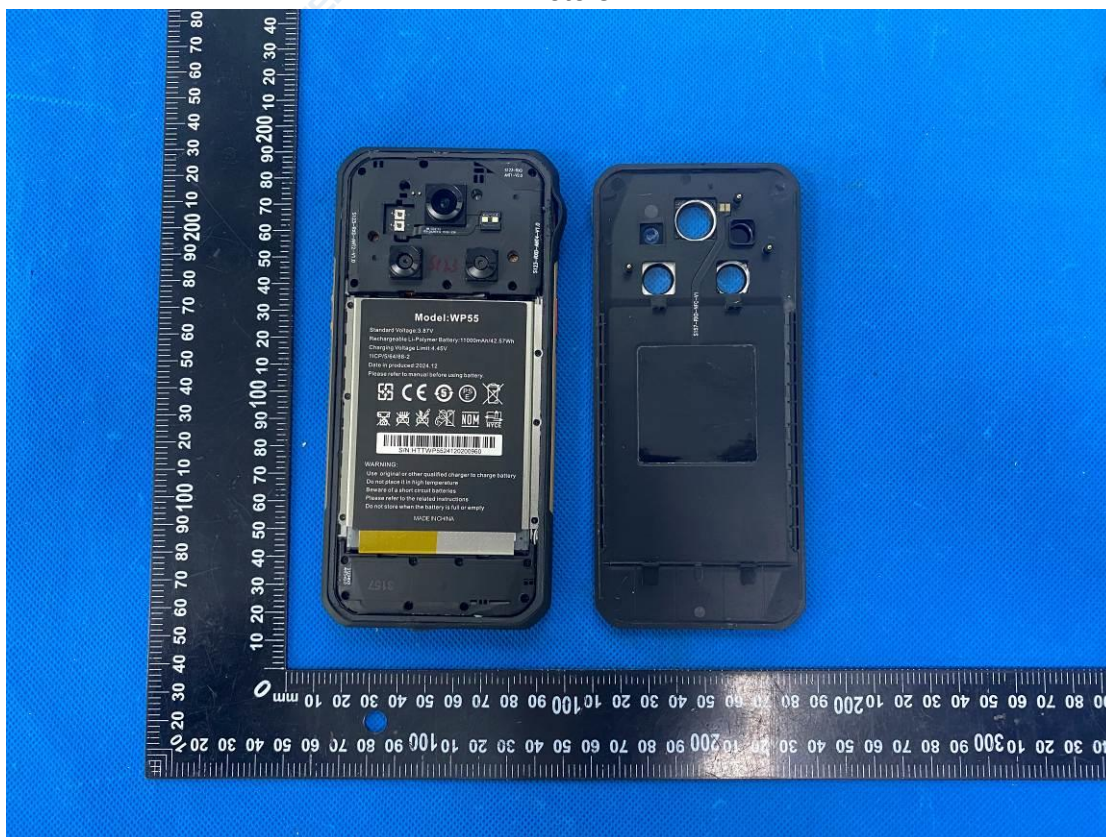


Photo 6

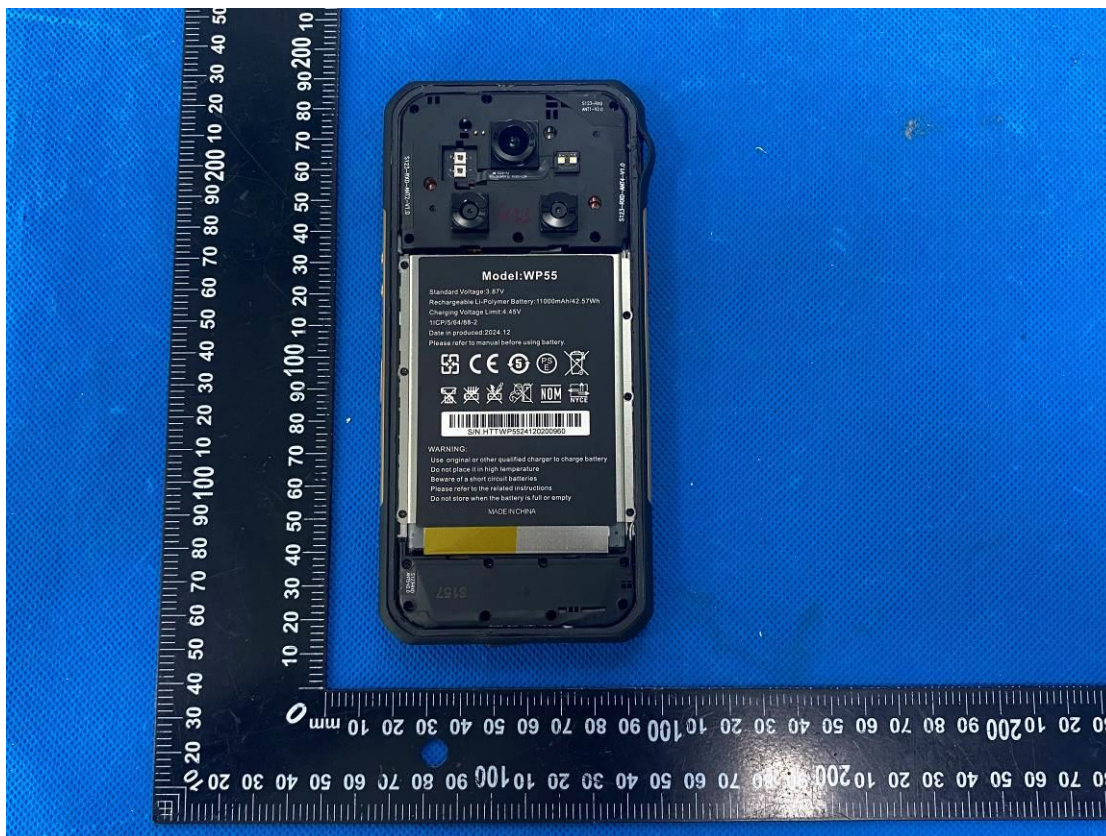


Photo 7



Photo 8

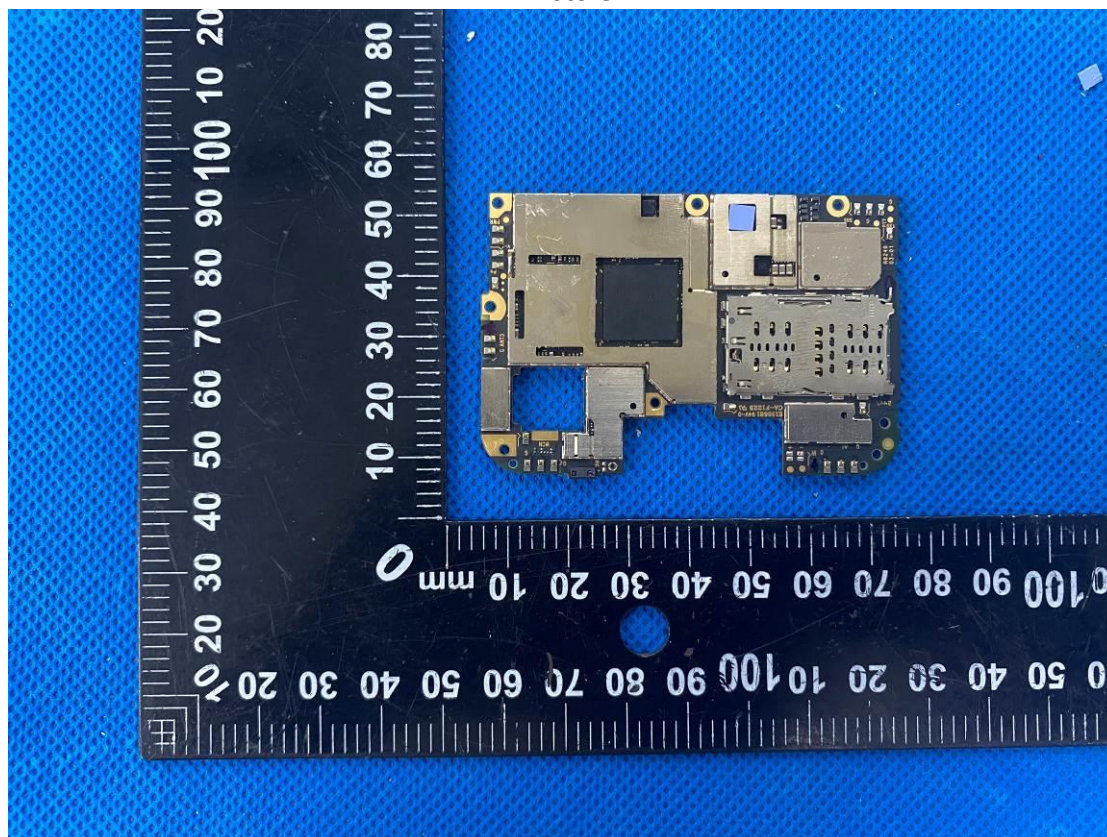


Photo 9

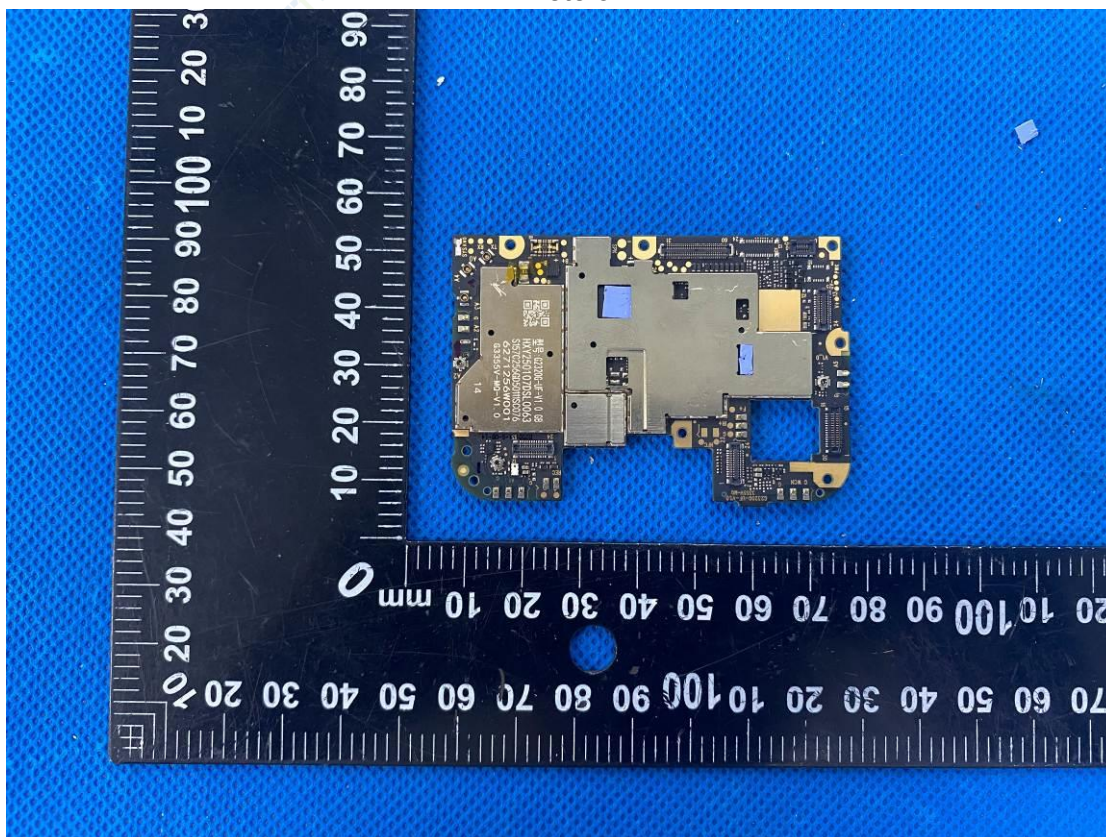


Photo 10

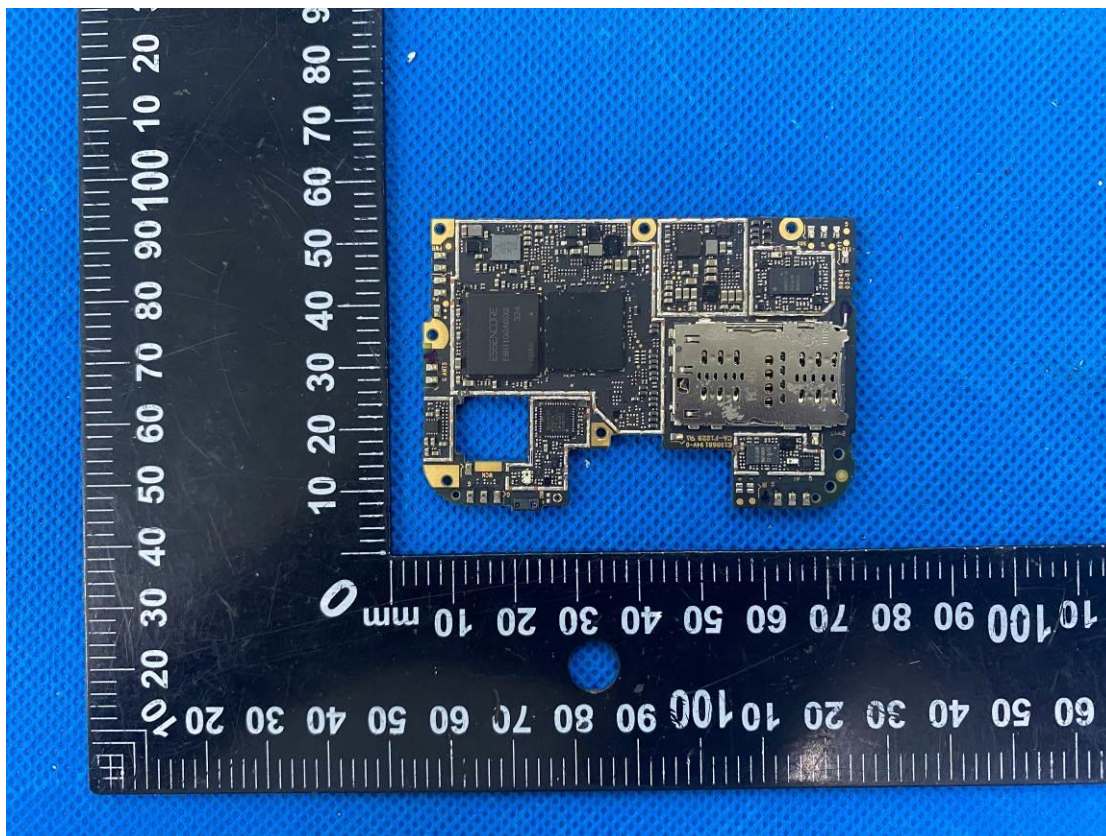
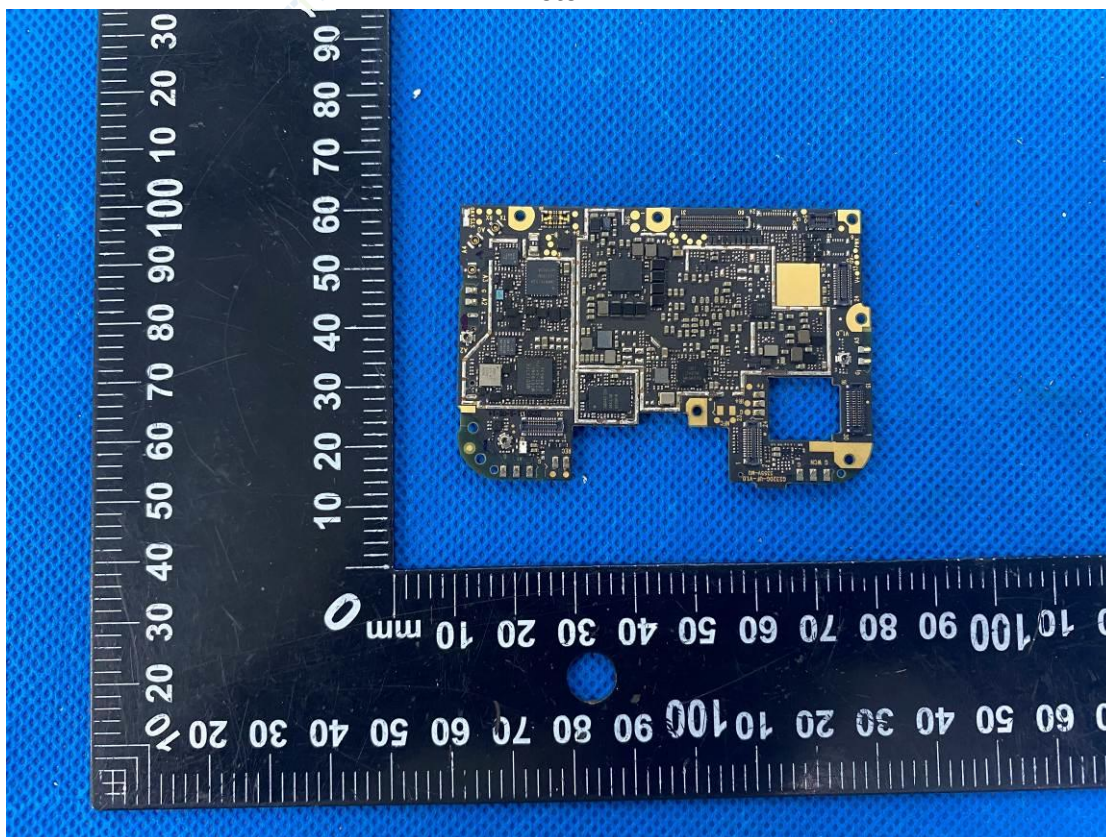


Photo 11



----- End of Report -----