# FCC RADIO TEST REPORT
# FCC ID: 2BV5C-WP66

**Product :** Smart phone

**Trade Mark :** OUKITEL

**Model Name :** WP66

**Family Model :** WP66 GT, WP66 S, WP66 Pro, WP66 Plus, WP66 Ultra, WP66 MAX, WP66 TITAN, WP66 4G, WP66 5G

**Report No. :** N26011600935E

**Issue Date:** Apr. 10, 2026

## Prepared for

YUNJI (HONG KONG) HOLDINGS CO.,LIMITED

MAXGRAND PLAZA NO.3 TAI YAU STREET SAN PO KONG HK

## Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

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# TEST RESULT CERTIFICATION

**Applicant's name** ..... : YUNJI (HONG KONG) HOLDINGS CO.,LIMITED

Address ..... : MAXGRAND PLAZA NO.3 TAI YAU STREET SAN PO KONG HK

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

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

**Product description**

Product name..... : Smart phone

Model and/or type reference : WP66

Family Model ..... : WP66 GT, WP66 S, WP66 Pro, WP66 Plus, WP66 Ultra, WP66 MAX, WP66 TITAN, WP66 4G, WP66 5G

Test Sample number..... : S2601190074-1#

**Standards** ..... : FCC Part15.225

Test procedure ..... ANSI C63.10-2020

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

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**Date of Test** ..... :

Date (s) of performance of tests..... : Jan. 16, 2026 ~ Apr. 10, 2026

Date of Issue..... : Apr. 10, 2026

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

| Prepared By : | Reviewed By : | Approved By : |
|---|---|---|
| Allen Liu | Aaron Cheng | Alex Li |
| Allen Liu | Aaron Cheng | Alex Li |
| (Project Engineer) | (Supervisor) | (Manager) |

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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15, Subpart C (15.225) | | | |
|---|---|---|---|
| Standard Section | Test Item | Judgment | Remark |
| 15.207 | Conducted Emission | Pass | |
| 15.205(a)<br>15.209<br>15.225(abcd) | Radiated Spurious Emission | Pass | |
| 15.225<br>15.215(c) | 20dB Bandwidth | Pass | |
| 15.225(e) | Frequency Tolerance | Pass | |
| 15.203 | Antenna Requirement | Pass | |

NOTE:
(1) ” N/A” denotes test is not applicable in this Test Report.

## 1.1 TEST FACILITY

All measurement facilities used to collect the measurement data are located at
No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

Site Description

| | | |
|---|---|---|
| CNAS-Lab. | : | The Certificate Registration Number is L5516. |
| IC-Registration | | The Certificate Registration Number is 9270A.<br>CAB identifier:CN0074 |
| FCC- Accredited | | Test Firm Registration Number: 463705.<br>Designation Number: CN1184 |
| A2LA-Lab. | | The Certificate Registration Number is 4298.01<br>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.<br>This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system<br>(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009). |
| Name of Firm | : | Shenzhen NTEK Testing Technology Co., Ltd. |
| Site Location | : | No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China. |

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **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** %。

| No. | Item | Uncertainty |
|---|---|---|
| 1 | Conducted Emission Test | ±1.38dB |
| 2 | RF power,conducted | ±0.16dB |
| 3 | Spurious emissions,conducted | ±0.21dB |
| 4 | All emissions,radiated(<1G) | ±4.68dB |
| 5 | All emissions,radiated(>1G) | ±4.89dB |
| 6 | Temperature | ±0.5°C |
| 7 | Humidity | ±2% |

# 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| Equipment | Smart phone |
| Trade Mark | OUKITEL |
| Model Name | WP66 |
| Family Model | WP66 GT, WP66 S, WP66 Pro, WP66 Plus, WP66 Ultra, WP66 MAX, WP66 TITAN, WP66 4G, WP66 5G |
| Model Difference | All models are the same circuit and RF module, except for model names. |
| Product Description | The EUT is a Smart phone<br>Operation Frequency: 13.56MHz<br>Modulation Type: ASK<br>Number Of Channel 1CH.<br>Antenna Designation: Induction coil |
| Adapter | Model: HJ-PD33W-US<br>Input: 100-240V~50/60Hz 0.8A<br>Output: 5.0V⎓3.0A OR 9.0V⎓3.0A<br>OR 12.0V⎓2.75A 33.0W MAX |
| Battery | DC 3.87V, 11000mAh, 42.57Wh |
| Power supply | DC 3.87V from battery or DC 5V/9V/12V from adapter |
| HW Version | N/A |
| FW Version | N/A |
| SW Version | V04 |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 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.

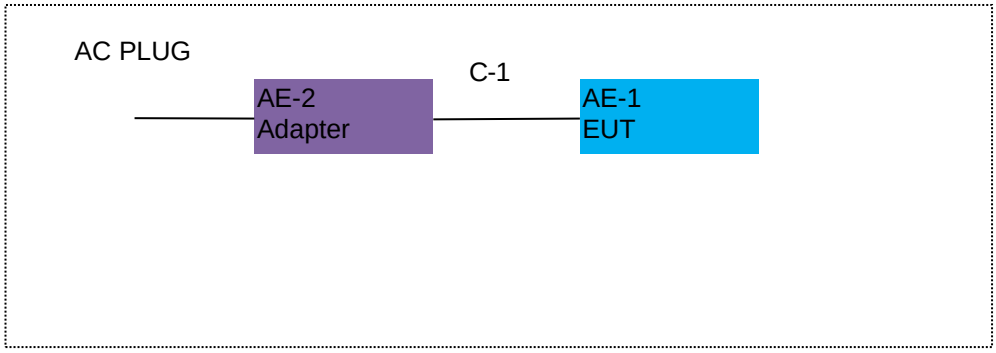
| Pretest Mode | Description |
|---|---|
| Mode 1 | TX-13.56MHz |

| For Conducted Emission | |
|---|---|
| Final Test Mode | Description |
| Mode 1 | TX-13.56MHz |

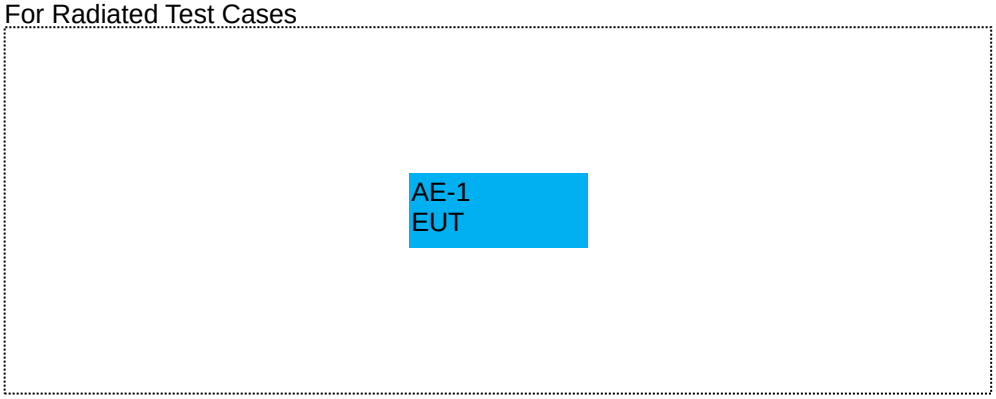
| For Radiated Emission | |
|---|---|
| Final Test Mode | Description |
| Mode 1 | TX-13.56MHz |

## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

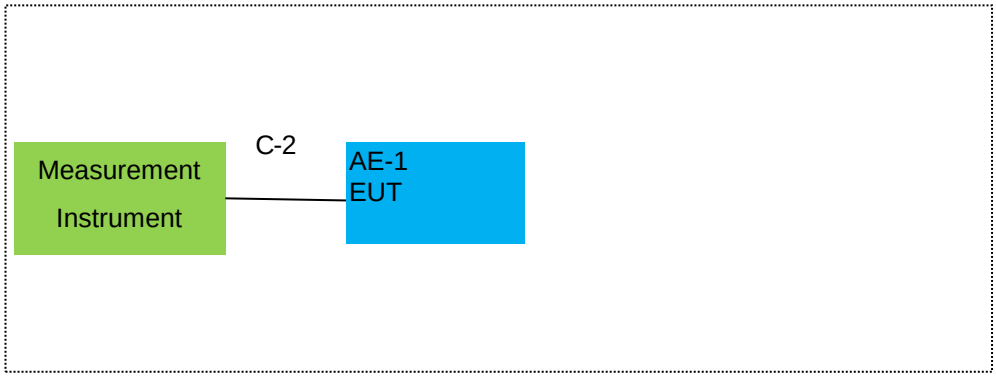
For AC Conducted Emission Mode




For Radiated Test Cases




For Conducted Test Cases




Note:1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.
2.EUT built-in battery-powered, the battery is fully-charged.

## 2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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 | Model/Type No. | Series No. | Note |
|---|---|---|---|---|
| AE-1 | Smart phone | WP66 | N/A | EUT |
| AE-2 | Adapter | HJ-PD33W-US | N/A | Peripherals |
| | | | | |
| | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Length | Note |
|---|---|---|---|---|---|
| C-1 | USB Cable | YES | NO | 1.0m | |
| C-2 | RF Cable | YES | NO | 0.1m | |
| | | | | | |
| | | | | | |

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.

## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|---|---|---|---|---|---|---|---|
| 1 | Spectrum Analyzer | Aglient | E4440A | MY41000130 | 2025.04.24 | 2026.04.23 | 1 year |
| 2 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2025.04.17 | 2026.04.16 | 1 year |
| 3 | Spectrum Analyzer | R&S | FSV40 | 101417 | 2025.04.17 | 2026.04.16 | 1 year |
| 4 | Test Receiver | R&S | ESPI7 | 101318 | 2025.04.17 | 2026.04.16 | 1 year |
| 5 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2025.05.11 | 2026.05.10 | 1 year |
| 6 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200983705 | 2024.04.26 | 2027.04.25 | 3 year |
| 7 | Horn Antenna | EM | EM-AH-10180 | 2011071402 | 2024.05.12 | 2027.05.11 | 3 year |
| 8 | Active Loop Antenna | SCHWARZBECK | FMZB 1519 B | 055 | 2024.05.17 | 2027.05.16 | 3 year |
| 9 | LF Cable | N/A | R-03 | N/A | 2023.06.17 | 2026.06.16 | 3 year |
| 10 | MXG Vector Signal Generator | Agilent | N5182A | MY47070317 | 2025.04.17 | 2026.04.16 | 1 year |
| 11 | Test Cable (9KHz-30MHz) | N/A | R-01 | N/A | 2023.05.06 | 2026.05.05 | 3 year |
| 12 | Test Cable (30MHz-1GHz) | N/A | R-02 | N/A | 2023.05.06 | 2026.05.05 | 3year |

AC Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|---|---|---|---|---|---|---|---|
| 1 | Test Receiver | R&S | ESCI | 101160 | 2025.04.17 | 2026.04.16 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2025.04.16 | 2026.04.15 | 1 year |
| 3 | LISN | SCHWARZBECK | NNLK 8129 | 8129245 | 2025.04.16 | 2026.04.15 | 1 year |
| 4 | 50Ω Coaxial Switch | ANRITSU CORP | MP59B | 6200983704 | 2024.04.26 | 2027.04.25 | 3 year |
| 5 | Test Cable (9KHz-30MHz) | N/A | C01 | N/A | 2023.05.06 | 2026.05.05 | 3 year |
| 6 | Test Cable (9KHz-30MHz) | N/A | C02 | N/A | 2023.05.06 | 2026.05.05 | 3 year |
| 7 | Test Cable (9KHz-30MHz) | N/A | C03 | N/A | 2023.05.06 | 2026.05.05 | 3 year |

Note:

1.We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

2. Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

# 3. ANTENNA REQUIREMENT

## 3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

## 3.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

# 4. EMC EMISSION TEST

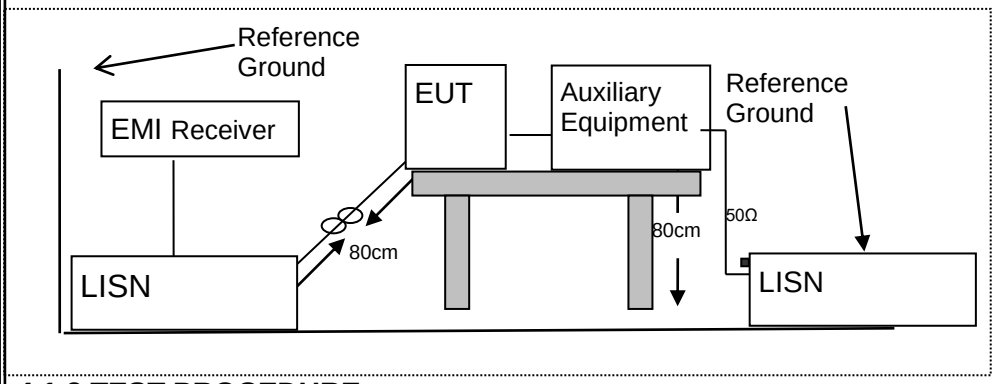
## 4.1 CONDUCTED EMISSION MEASUREMENT

### 4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| Frequency(MHz) | Conducted Emission Limit | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66-56* | 56-46* |
| 0.5-5.0 | 56 | 46 |
| 5.0-30.0 | 60 | 50 |

Note: 1. *Decreases with the logarithm of the frequency
2. The lower limit shall apply at the transition frequencies
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.1.2 TEST CONFIGURATION




### 4.1.3 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

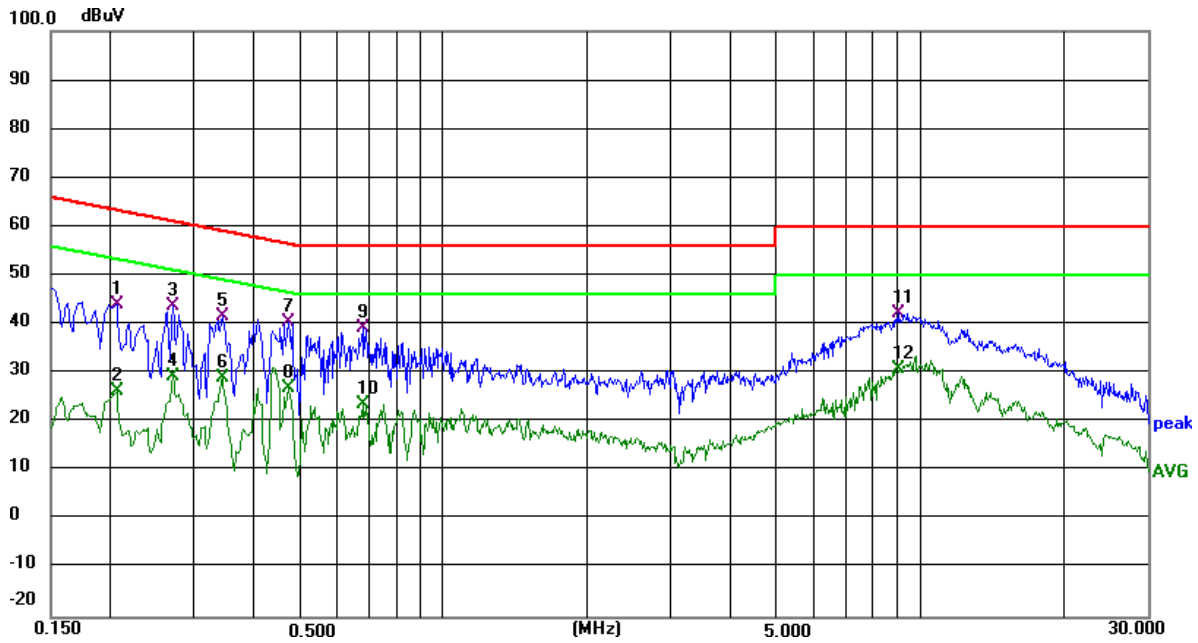
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. 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 40cm long.
5. 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.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 4.1.4 TEST RESULT

| | | | |
|---|---|---|---|
| EUT： | Smart phone | Model Name ： | WP66 |
| Temperature： | 25.7 ℃ | Relative Humidity： | 43.9% |
| Pressure： | 1010hPa | Phase： | L |
| Test Voltage ： | DC 5V from Adapter AC 120V/60Hz | Test Mode： | Mode 1 |

| Frequency (MHz) | Reading Level (dBμV) | Correct Factor (dB) | Measure-ment (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|
| 0.2060 | 23.72 | 20.34 | 44.06 | 63.37 | -19.31 | QP |
| 0.2060 | 5.88 | 20.34 | 26.22 | 53.37 | -27.15 | AVG |
| 0.2700 | 23.45 | 20.39 | 43.84 | 61.12 | -17.28 | QP |
| 0.2700 | 8.85 | 20.39 | 29.24 | 51.12 | -21.88 | AVG |
| 0.3420 | 21.20 | 20.40 | 41.60 | 59.15 | -17.55 | QP |
| 0.3420 | 8.80 | 20.40 | 29.20 | 49.15 | -19.95 | AVG |
| 0.4740 | 20.12 | 20.43 | 40.55 | 56.44 | -15.89 | QP |
| 0.4740 | 6.38 | 20.43 | 26.81 | 46.44 | -19.63 | AVG |
| 0.6780 | 18.86 | 20.43 | 39.29 | 56.00 | -16.71 | QP |
| 0.6780 | 3.34 | 20.43 | 23.77 | 46.00 | -22.23 | AVG |
| 9.0100 | 21.33 | 20.94 | 42.27 | 60.00 | -17.73 | QP |
| 9.0100 | 9.88 | 20.94 | 30.82 | 50.00 | -19.18 | AVG |

Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

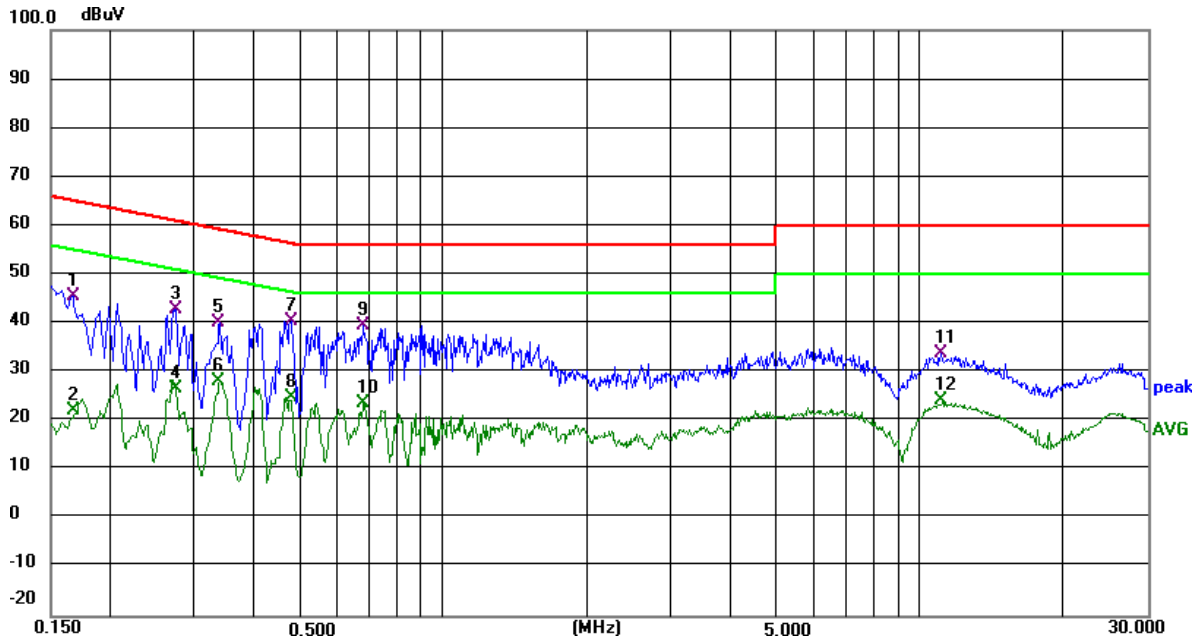


| | | | |
|---|---|---|---|
| EUT： | Smart phone | Model Name ： | WP66 |
| Temperature： | 25.7 ℃ | Relative Humidity： | 43.9% |
| Pressure： | 1010hPa | Phase： | N |
| Test Voltage ： | DC 5V from Adapter AC 120V/60Hz | Test Mode： | Mode 1 |

| Frequency (MHz) | Reading Level (dBμV) | Correct Factor (dB) | Measure-ment (dBμV) | Limits (dBμV) | Margin (dB) | Remark |
|---|---|---|---|---|---|---|
| 0.1660 | 25.33 | 20.30 | 45.63 | 65.16 | -19.53 | QP |
| 0.1660 | 1.88 | 20.30 | 22.18 | 55.16 | -32.98 | AVG |
| 0.2740 | 22.51 | 20.38 | 42.89 | 61.00 | -18.11 | QP |
| 0.2740 | 6.32 | 20.38 | 26.70 | 51.00 | -24.30 | AVG |
| 0.3379 | 19.71 | 20.40 | 40.11 | 59.25 | -19.14 | QP |
| 0.3379 | 7.89 | 20.40 | 28.29 | 49.25 | -20.96 | AVG |
| 0.4780 | 19.90 | 20.43 | 40.33 | 56.37 | -16.04 | QP |
| 0.4780 | 4.49 | 20.43 | 24.92 | 46.37 | -21.45 | AVG |
| 0.6780 | 19.23 | 20.44 | 39.67 | 56.00 | -16.33 | QP |
| 0.6780 | 3.25 | 20.44 | 23.69 | 46.00 | -22.31 | AVG |
| 11.0780 | 24.34 | 9.61 | 33.95 | 60.00 | -26.05 | QP |
| 11.0780 | 14.62 | 9.61 | 24.23 | 50.00 | -25.77 | AVG |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 Radiated Emission Limits ( FCC 15.209 )

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

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

(2) Emission level (dBuV/m)=20log Emission level (uV/m).

(3) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

According to FCC Part15.205, Restricted bands

| MHz | MHz | MHz | GHz |
|---|---|---|---|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 10.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) |
| 13.36-13.41 | | | |

LIMITS OF RADIATED EMISSION MEASUREMENT ( FCC 15.225)

(a)The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters, equal to 124dBuV/m at 3 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters, equal to 90.5dBuV/m at 3 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters, equal to 80.5dBuV/m at 3 meters..

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1MHz / 1MHz for Peak |

| Receiver Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

### 4.2.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz And above 1GHz,
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter. 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.
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.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

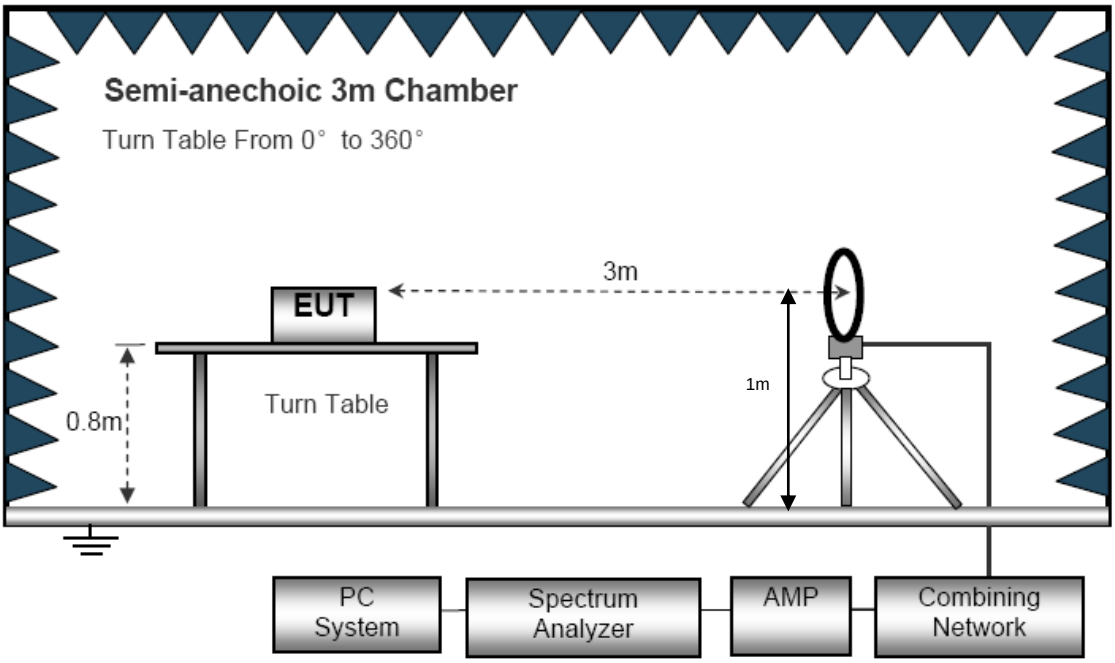
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

### 4.2.3 DEVIATION FROM TEST STANDARD

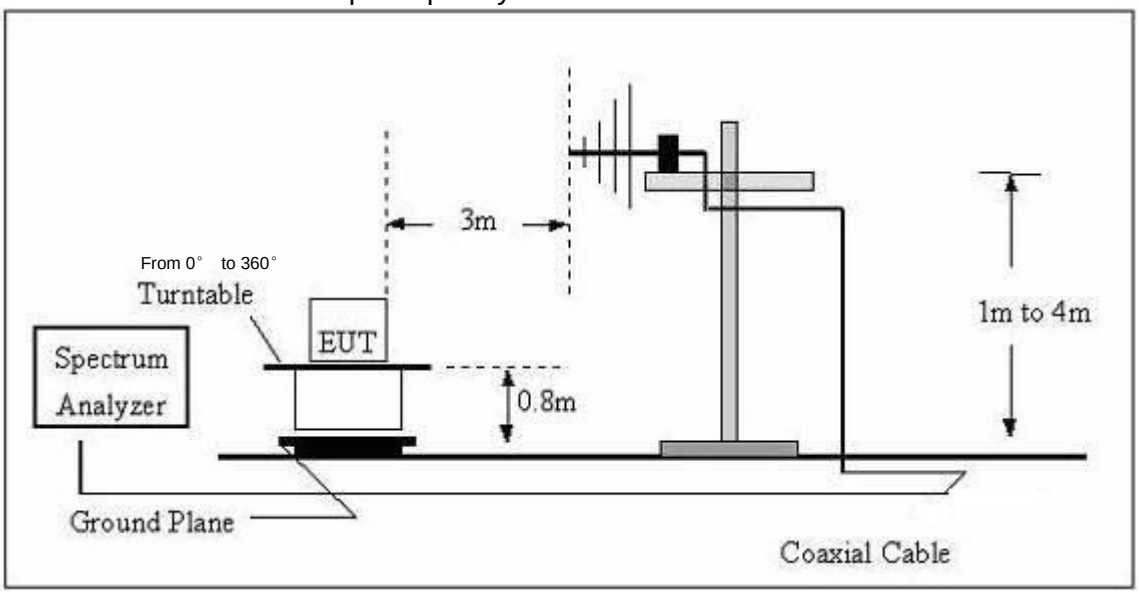
No deviation

### 4.2.4 TEST SETUP

（A）Radiated Emission Test-Up Frequency Below 30MHz



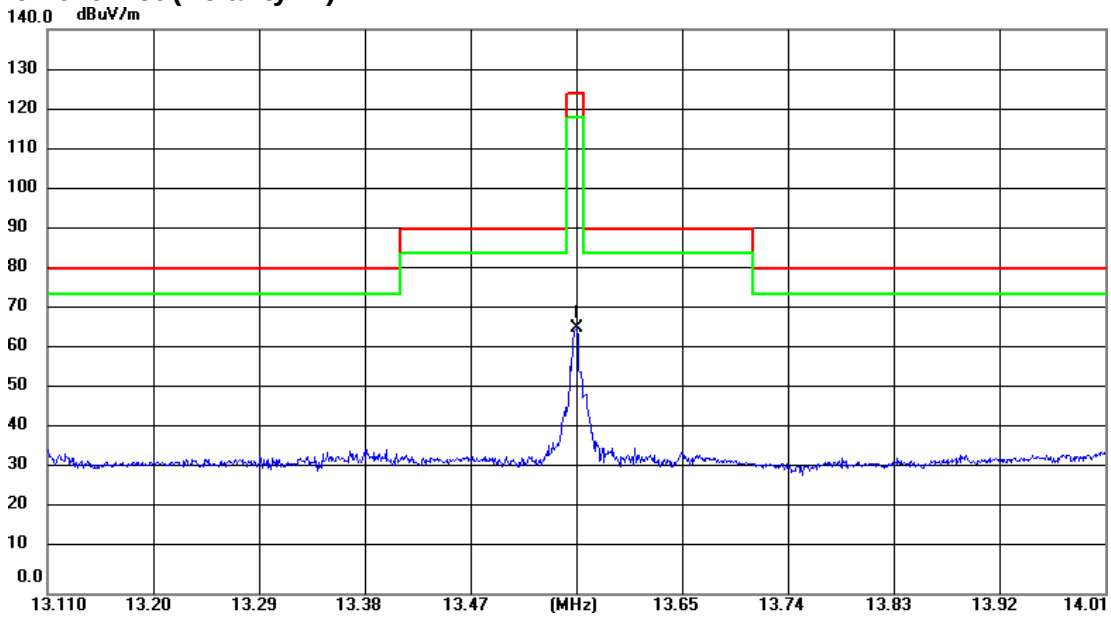

（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



### 4.2.5 TEST RESULTS (BELOW 30MHz)

| | | | |
|---|---|---|---|
| EUT : | Smart phone | Model Name. : | WP66 |
| Temperature : | 20 ℃ | Relative Humidtity : | 54% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.87V |
| Test Mode : | TX-13.56MHz | | |

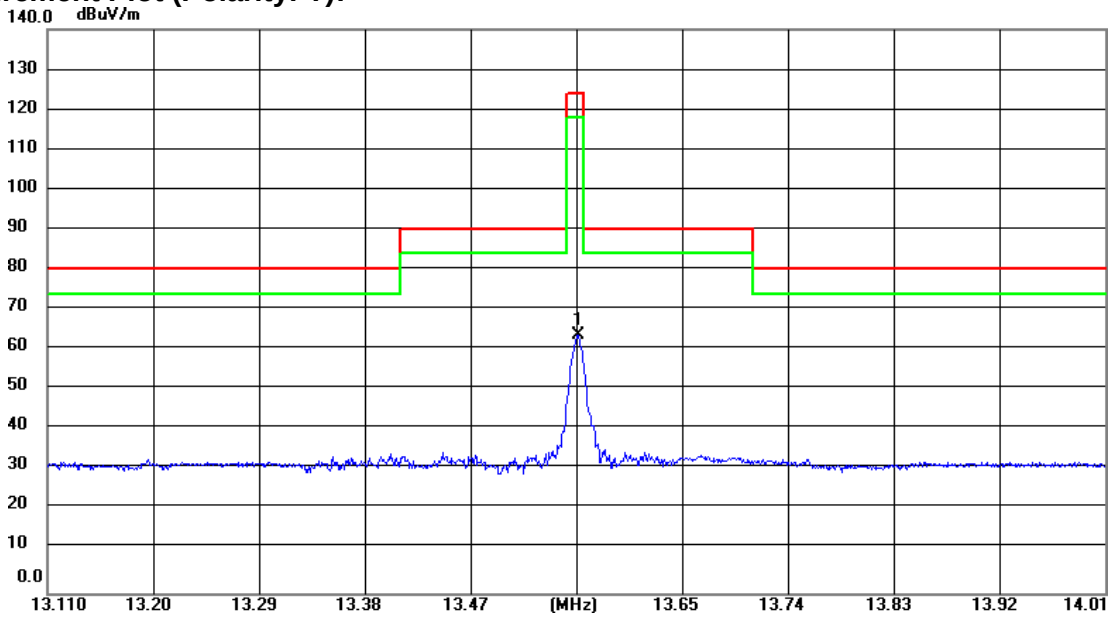
**Measurement Plot (Polarity: X):**




**Measurement Result:**

| Frequency (MHz) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|
| 13.5602 | 65.95 | 65.95 | 124.00 | -58.05 | peak |

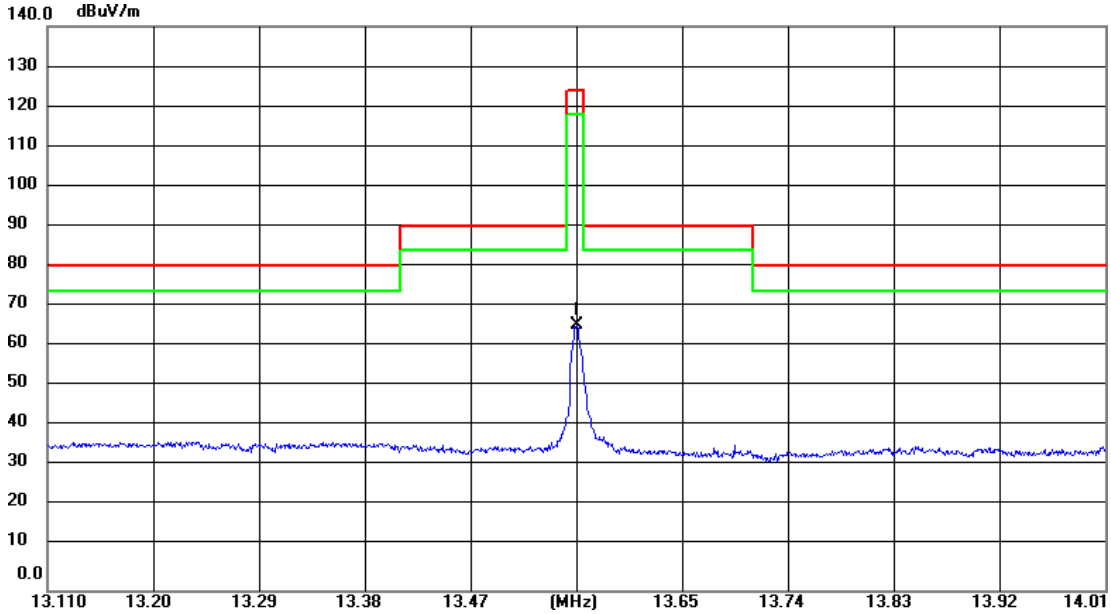
**Measurement Plot (Polarity: Y):**




**Measurement Result:**

| Frequency (MHz) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|
| 13.5622 | 64.39 | 64.39 | 124.00 | -59.61 | peak |

**Measurement Plot (Polarity: Z):**




**Measurement Result:**

| Frequency (MHz) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|
| 13.5602 | 65.83 | 65.83 | 124.00 | -58.17 | peak |

Spurious emissions at 9KHz~13.110MHz & 14.010MHz~30MHz

| Frequency(MHz) | Ant.Pol. | Emission Level | Limits | Margin | Remark |
|---|---|---|---|---|---|
| | | (dBuV/m) | (dBuV/m) | (dB) | |
| 0.079 | X | 56.88 | 129.652 | -72.77 | PK |
| 0.079 | X | 49.15 | 109.652 | -60.50 | Avg |
| 0.091 | X | 58.71 | 128.423 | -69.71 | PK |
| 0.091 | X | 45.92 | 108.423 | -62.50 | Avg |
| 0.144 | X | 81.45 | 124.44 | -42.99 | PK |
| 0.144 | X | 73.41 | 104.44 | -31.03 | Avg |
| 0.814 | X | 46.81 | 69.392 | -22.58 | QP |
| 1.855 | X | 45.17 | 69.54 | -24.37 | QP |
| 12.447 | X | 43.18 | 69.54 | -26.36 | QP |

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the loop antenna differ by 90 degrees.

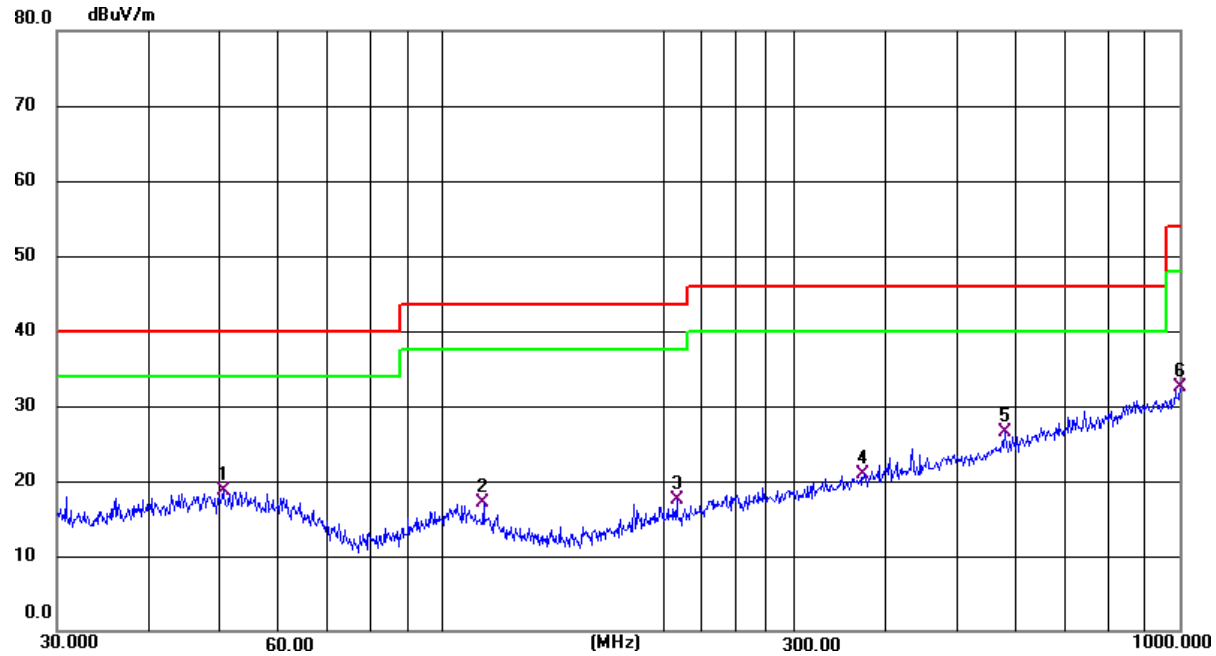
Z: Field strength which this device generates since the position of the loop antenna differ by 180 degrees

### 4.2.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

| | | | |
|---|---|---|---|
| EUT : | Smart phone | Model Name : | WP66 |
| Temperature : | 23.2 ℃ | Relative Humidity : | 45% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.87V |
| Test Mode : | TX | Polarization : | Horizontal |

| Freq. (MHz) | Reading (dBμV/m) | Factor (dB) | Measurement (dBμV/m) | Limit (dBμV/m) | Over (dB) | Detector |
|---|---|---|---|---|---|---|
| 50.4090 | -1.20 | 19.97 | 18.77 | 40.00 | -21.23 | QP |
| 113.7140 | -0.26 | 17.31 | 17.05 | 43.50 | -26.45 | QP |
| 207.8500 | 0.00 | 17.47 | 17.47 | 43.50 | -26.03 | QP |
| 373.3110 | -0.85 | 21.81 | 20.96 | 46.00 | -25.04 | QP |
| 578.6700 | 1.14 | 25.34 | 26.48 | 46.00 | -19.52 | QP |
| 1000.0000 | 1.30 | 31.15 | 32.45 | 54.00 | -21.55 | QP |

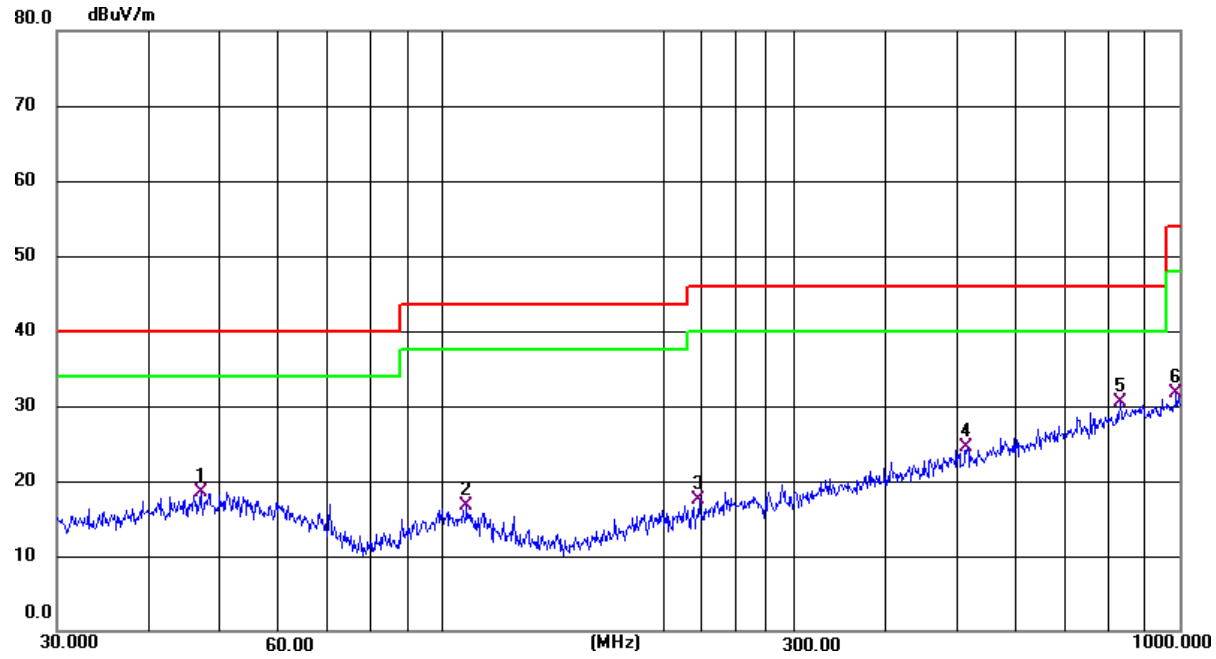
Remark:
Factor = Antenna Factor + Cable Loss.



| | | | |
|---|---|---|---|
| EUT : | Smart phone | Model Name : | WP66 |
| Temperature : | 23.2℃ | Relative Humidity : | 45% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.87V |
| Test Mode : | TX | Polarization : | Vertical |

| Freq. (MHz) | Reading (dBμV/m) | Factor (dB) | Measurement (dBμV/m) | Limit (dBμV/m) | Over (dB) | Detector |
|---|---|---|---|---|---|---|
| 46.9950 | -1.29 | 19.75 | 18.46 | 40.00 | -21.54 | QP |
| 107.8880 | -1.50 | 18.25 | 16.75 | 43.50 | -26.75 | QP |
| 222.9500 | -0.42 | 17.91 | 17.49 | 46.00 | -28.51 | QP |
| 515.4370 | 0.62 | 23.83 | 24.45 | 46.00 | -21.55 | QP |
| 830.4000 | 1.42 | 29.06 | 30.48 | 46.00 | -15.52 | QP |
| 989.5350 | 0.84 | 30.82 | 31.66 | 54.00 | -22.34 | QP |

Remark:
Factor = Antenna Factor + Cable Loss.



# 5. BANDWIDTH TEST

## 5.1 TEST PROCEDURE

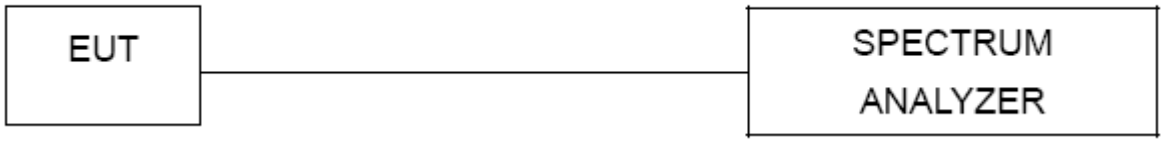
1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
2. 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 1 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

## 5.2 DEVIATION FROM STANDARD

15.215
(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated

FCC Part15.225
Operation within the band 13.110 – 14.010MHz

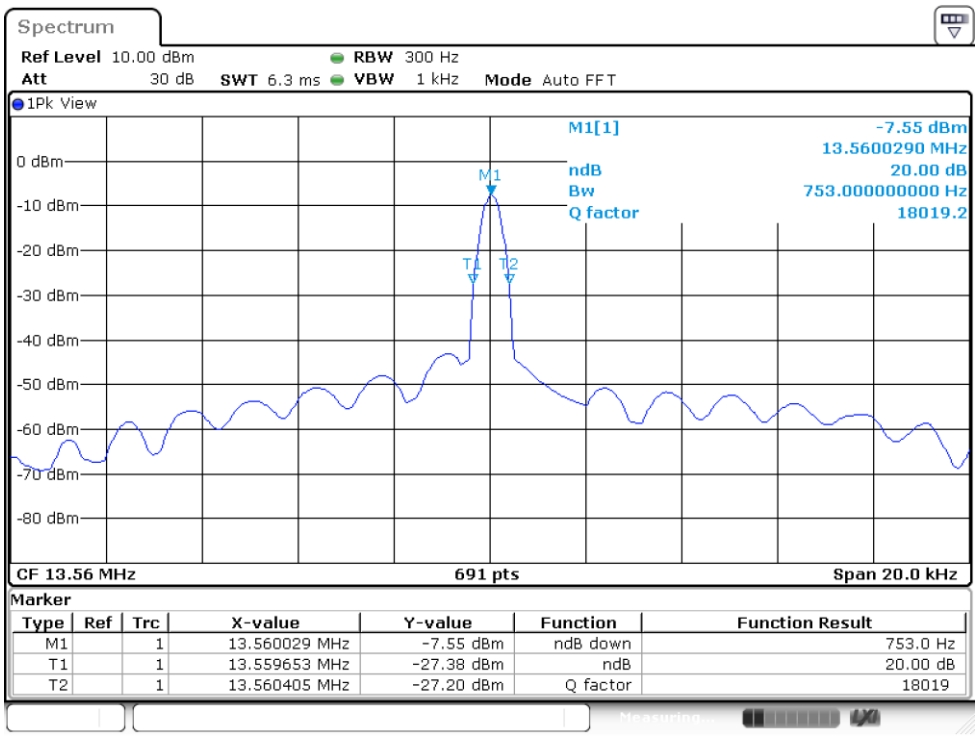
## 5.3 TEST SETUP



## 5.4 TEST RESULTS

| | | | |
|---|---|---|---|
| EUT : | Smart phone | Model Name : | WP66 |
| Temperature : | 26 ℃ | Relative Humidity : | 54% |
| Pressure : | 1020 hPa | Test Power : | DC 3.87V |
| Test Mode : | TX | | |

| Test Channel | Frequency (MHz) | 20 dBc Bandwidth (kHz) |
|---|---|---|
| CH01 | 13.56 | 0.753 |



## 6. FREQUENCY TOLERANCE

6.1 Requirement:

| | |
|---|---|
| Test Requirement: | FCC Part15.225 |
| Test Method: | ANSI C63.4:2014 |
| Requirement: | The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of –20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery. |

6.2 Test Procedure

1.The EUT was placed on a turn table which is 0.8m above ground plane.

2.Set EUT as normal operation

3.Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.

4.Set SPA Max hold. Mark peak.

## Test Result

| Power Supply | Temperature (℃) | Measured Frequency (MHz) | Frequency Error (MHz) | Result (ppm) | Part 15.225 Limit |
|---|---|---|---|---|---|
| DC 4.45V | -20 | 13.56014 | 0.00014 | 10.3244838 | +/- 0.01%(100ppm) |
| | 20 | 13.56012 | 0.00012 | 8.8495575 | +/- 0.01%(100ppm) |
| | 50 | 13.56024 | 0.00024 | 17.6991150 | +/- 0.01%(100ppm) |
| DC 3.87V | -20 | 13.56011 | 0.00011 | 8.1120944 | +/- 0.01%(100ppm) |
| | 20 | 13.56015 | 0.00015 | 11.0619469 | +/- 0.01%(100ppm) |
| | 50 | 13.56028 | 0.00028 | 20.6489676 | +/- 0.01%(100ppm) |
| DC 3.29V | -20 | 13.56026 | 0.00026 | 19.1740413 | +/- 0.01%(100ppm) |
| | 20 | 13.56013 | 0.00013 | 9.5870206 | +/- 0.01%(100ppm) |
| | 50 | 13.56011 | 0.00011 | 8.1120944 | +/- 0.01%(100ppm) |

END REPORT

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