# RADIO TEST REPORT

# (FCC Part 15 Subpart C)

| | |
|---|---|
| Applicant: | HMD Global Oy |
| Address: | Bertel Jungin aukio 9,02600 Espoo, Finland |

| | |
|---|---|
| Manufacturer: | HMD Global Oy |
| Address: | Bertel Jungin aukio 9,02600 Espoo, Finland |
| Product: | Smart phone |
| Brand Name: | HMD |
| Model Name: | TA-1600/TA-1688 |
| FCC ID: | 2AJOTTA-1600 |
| Date of tests: | Apr. 08, 2024 ~ May. 31, 2024 |

The tests have been carried out according to the requirements of the following standard:

☒ **Part 15 Subpart C §15. 209**

☒ **ANSI C63.10-2020**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| Prepared by Simon Wang | Approved by Luke Lu |
|---|---|
| Engineer / Mobile Department | Manager / Mobile Department |
| Simon Wang | Luke Lu |
| Date: May. 31, 2024 | Date: May. 31, 2024 |

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# REPORT REVISE RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---|---|---|
| PSU-NQN2403180115RF16 | Original release | May. 31, 2024 |

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

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# SUMMARY OF TEST RESULT

| FCC Rule | Description | Result | Remark |
|---|---|---|---|
| 2.1049 | 20dB Bandwidth | Pass | - |
| 2.1049 | 99% Occupied Bandwidth | Pass | - |
| 15.209 | Radiated Emission | Pass | - |
| 15.207 | AC Conducted Emission | Pass | - |
| 15.203 | Antenna Requirements | Pass | - |

**Note：** 1.The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

2.The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

3.The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

***Test Lab Information Reference**

**Lab B:**
Huarui 7Layers High Technology (Suzhou) Co., Ltd.
**Lab Address:**
Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province
**Accredited Test Lab Cert 6613.01**

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

# 1 GENERAL DESCRIPTION

## 1.1 GENERAL DESCRIPTION OF EUT

| Items | Description |
|---|---|
| **PRODUCT** | Smart phone |
| **BRAND NAME** | HMD |
| **MODEL NAME** | TA-1600/TA-1688 |
| **WPT Frequency Range** | 110 kHz ~ 147 kHz |
| **WPT Type of Modulation** | ASK |
| **WPT ANTENNA TYPE** | Coil Antenna |
| **HW version** | V2 |
| **SW version** | 00WW_0_340 |

**NOTE:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

**2. List of Accessory:**

| ACCESSORIES | BRAND | MANUFACTURER | MODEL | SPECIFICATION |
|---|---|---|---|---|
| LCD Panel | BOE | BOE | BF066XMM-TL4-F900 | 6.55inch, AMOLED; |
| Back cover | BIEL | BIEL | Panda-X | 158 mm*73 mm*0.6 mm |
| Bezel | BIEL | BIEL | 6103HG02-T6 | 160 mm_76 mm_8.5 mm |
| Photo Camera 1 | AAC | AAC | P50AD01 | 50MP,AF |
| Photo Camera 2 | AAC | AAC | W13FD02 | 13MP Ultra Wide, FF |
| Video Camera 1 | AAC | AAC | T50AD01 | 50MP Tele, AF |
| Video Camera 2 | AAC | AAC | MA8SD01 | 108MP+OIS, AF |
| CPU | Qualcomm | Qualcomm | SM-7435-1-PSP1026-TR-00-0-AB | Platform Baseband Chip_PSP_mmW_8 core_SMT |
| eMMC1 (=ROM1) | Samsung | Samsung | KM8L9001JM-B624T07 | uMCP_254-ball FBGA_128GB_LPDD R4X_64Gb_SMT |
| eMMC2 (=ROM2) | Samsung | Samsung | KM8F9001JM-B813T07 | uMCP_254-ball FBGA_256GB_LPDD R4X_64Gb_SMT |
| eMMC3 (=ROM3) | Samsung | Samsung | KM8F9001MM-B830T07 | uMCP_254-ball FBGA_256GB_LPDD R4X_96Gb_SMT |
| Battery | HMD | Gaoyuan | HBA4633AA | RatedCapacity:4500mAh/17.51Wh |

3. The differences between the first and second supply as follows and the specifications and RF parameters are the same.

| Key Component list | | | | | | |
|---|---|---|---|---|---|---|
| No. | Component | Description | First supply | | Second supply | |
| | | | Supplier | Spec | Supplier | Spec |
| 1 | USB/ Analog audio headsets | Analog Audio Switch | Dioo | DIO4480WL25 Analog switch & MUX_WLCSP25_2.7-5.5V_3-Channel_1000MHz _SMT | Will | WAS4780C-25/TR Analog switch & MUX_CSP-25L_2.7-5.5V_2-Channel_950MHz_ SMT |
| 2 | Wireless charge | Load Switch | SGM | SGM2575ADYG/TR Load Switch_34 mΩ_11 W_WLCSP_SGM2575ADY G/TR_SGM | Dioo | DIO7290WL4 Load Switch_85 mΩ_11 W_WLCSP-4 |
| 3 | Sensor | Barometer | Bosch | BMP580 Baroceptor _LGA-10_±0.05 hPa_48 bit_ SMT | Go er mic ro | SPL07-003 Baroceptor_10pin LGA_0.5Pa/°C_24 bit_SMT |
| 4 | Sensor | eCOMPASS | VTC | AF6837 Magnetic field sensor_WLCSP_10 LSB/μT_16 bit_I2C_SMT | Memsic | MMC5603NJL Ecompass_MMC56 03NJL_M EMSIC_MCOs |
| 5 | RF IC | LNA | Will | WS7916DF-6/TR RF_LNA_6-pin DFN_1150 MHz to 1615_SMT | Awinic | AW5005EDNR RF_LNA_AW5005 EDNR_Awi nic |
| 6 | Receiver | SP2T | Will | WS78022D-6/TR DFN-6_0.1GHz - 3.8GHz_SPDT_GPIO_SMT | Champ hill | QX8612GD 0.7 to 2.7GHz_SPDT_2 W_GPIO |
| 7 | USB connector | USB type-C connector | LETCON | 15-16815-105-M1 USB TYPE C Connector_0.9 mm_16 pin_Female Head (elastic end)_Horizontal_None-waterproof_4.27 mm_Gold_SMT_480M | HRD | UC141-0B100DR0 USB TYPE C Connector_0.9 mm_16 pin_Female Head (elastic end)_Horizontal_No ne- waterproof_4.3 mm_Gold_SMT_48 0M |

## 1.2 MODIFICATION OF EUT

No modifications are made to the EUT during all test items.

## 1.3 APPLICABLE STANDARDS

FCC Part 15 Subpart C §15.209, §15.207

FCC KDB 414788 D01 Radiated Test Site v01r01.

ANSI C63.10-2020

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

# 2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

## 2.1 DESCRIPTIONS OF TEST MODE

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 1000 MHz).

b. AC power line Conducted Emission was tested under maximum output power.

| Test Items | Function Type |
|---|---|
| **Occupied Bandwidth** | Mode 1: Wireless Charging (Reverse charging) |
| **Radiated Emission** | Mode 1: Wireless Charging (Reverse charging) |
| **AC Conducted Emission** | Mode 1 : Wireless Charging(Reverse charging) + Adapter + USB Cable |

**Remark:**

**1.** The worst case of radiated emission is mode 1, only this mode is shown in the report.

**2.** The tests were performed with Adapter and USB Cable.

**3.** The WPT charging three positions are pretested, only the worst position are recorded in the report:

## 2.2 TEST CONFIGURATIONS


This example is connection diagram of EUT test configurations.

## 2.3 SUPPORT EQUIPMENT

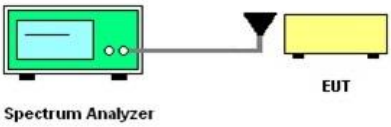
| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|---|---|---|---|---|---|
| 1 | N/A | N/A | N/A | N/A | N/A |

## 2.4 TEST SETUP

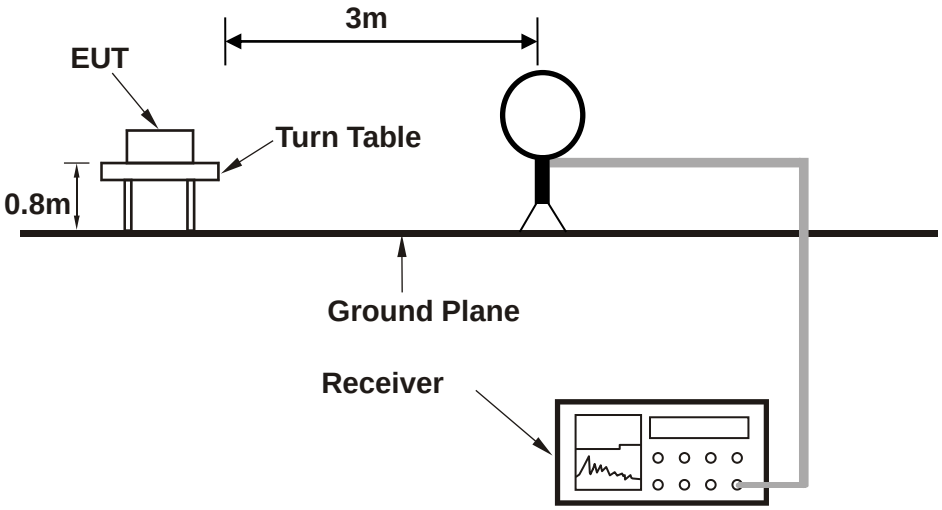
The EUT is continuously communicating during the tests.

EUT was set in the Hidden menu mode to enable NFC communications.

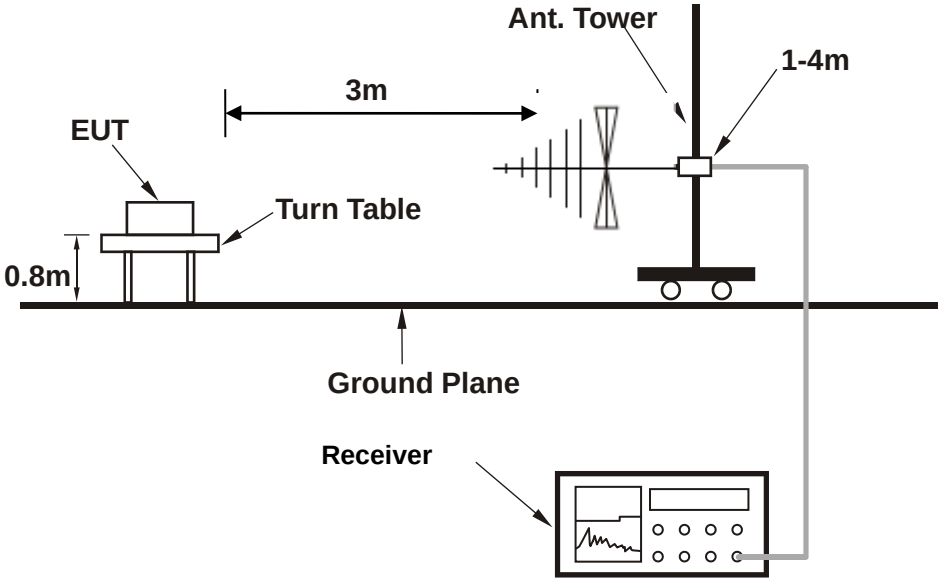
**Setup diagram for Conducted Test**




**Setup diagram for Radiation(9KHz~30MHz) Test**



**Setup diagram for Radiation(Below 1G) Test**



# 3 TEST RESULT

## 3.1 20DB AND 99% BANDWIDTH MEASUREMENT

### 3.1.1 LIMIT OF 20DB AND 99% BANDWIDTH

99% OBW shall not located within 15.205 restricted bands.

### 3.1.2 TEST PROCEDURES

1.The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while wirelessly charging a charging board.

2.Use the following spectrum analyzer settings for 99 % Bandwidth measurement.

3.Measure and record the results in the test report.

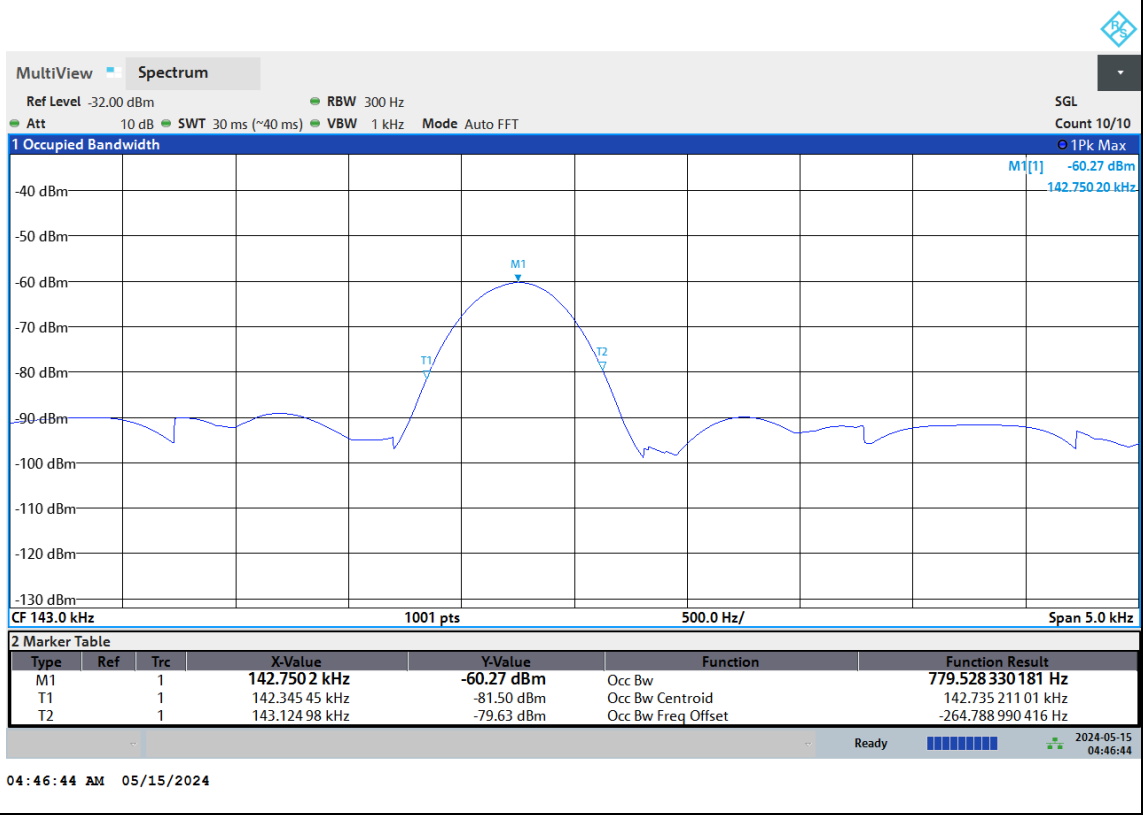
## 3.1.3 TEST RESULT OF 20DB AND 99% BANDWIDTH

| Test Mode : | WPT | Temperature : | 23℃ |
|---|---|---|---|
| Test Engineer : | Hanwen Xu | Relative Humidity : | 50% |

| Mode | 20dB Bandwidth [kHz] | 99% OBW[kHz] | Verdict |
|---|---|---|---|
| WPT | 0.784 | 0.780 | PASS |

**20dB Bandwidth & 99% Bandwidth Plot**

| Graphs | |
|---|---|
| 20dB Bandwidth |  |

| Graphs | |
|---|---|
| **99% Bandwidth** |  |

# 3.2 RADIATED EMISSIONS MEASUREMENT

## 3.2.1 LIMIT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequencies (MHz) | Field Strength (μV/m) | 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 |

## 3.2.2 MEASURING INSTRUMENT SETTING

The following table is the setting of receiver.

| Receiver Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Frequency Range: 9kHz~150kHz | RBW 200Hz for QP |
| Frequency Range: 150kHz~30MHz | RBW 9kHz for QP |
| Frequency Range: 30MHz~1000MHz | RBW 120kHz for Peak |

**Note:** 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. Radiated emission limits in these two bands are based on measurements employing an average detector.

For radiated emissions from 9kHz to 1GHz test distance is

3m For 9kHz ~ 30MHz

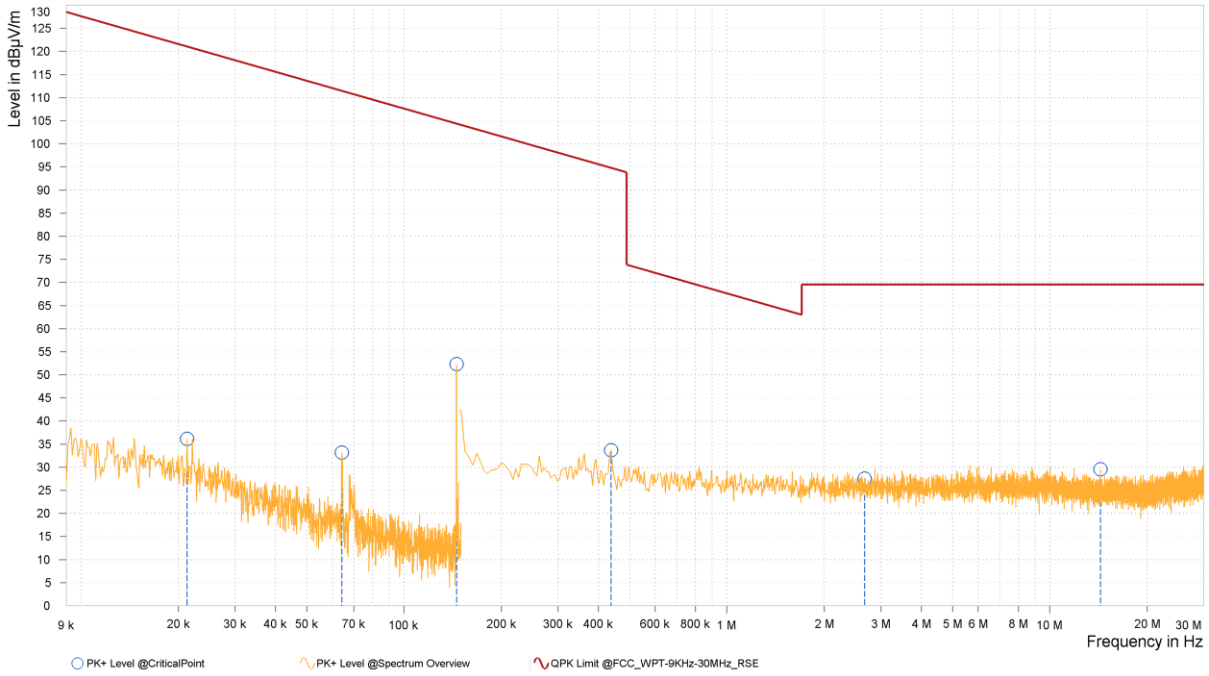
1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. specific line (dBμV/m) = 20 log Emission level (μV/m)
4. Limit line = specific limits (dBμV/m) + distance extrapolation factor.

### 3.2.3 TEST PROCEDURES

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
1. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
2. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
3. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
4. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
6. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver.

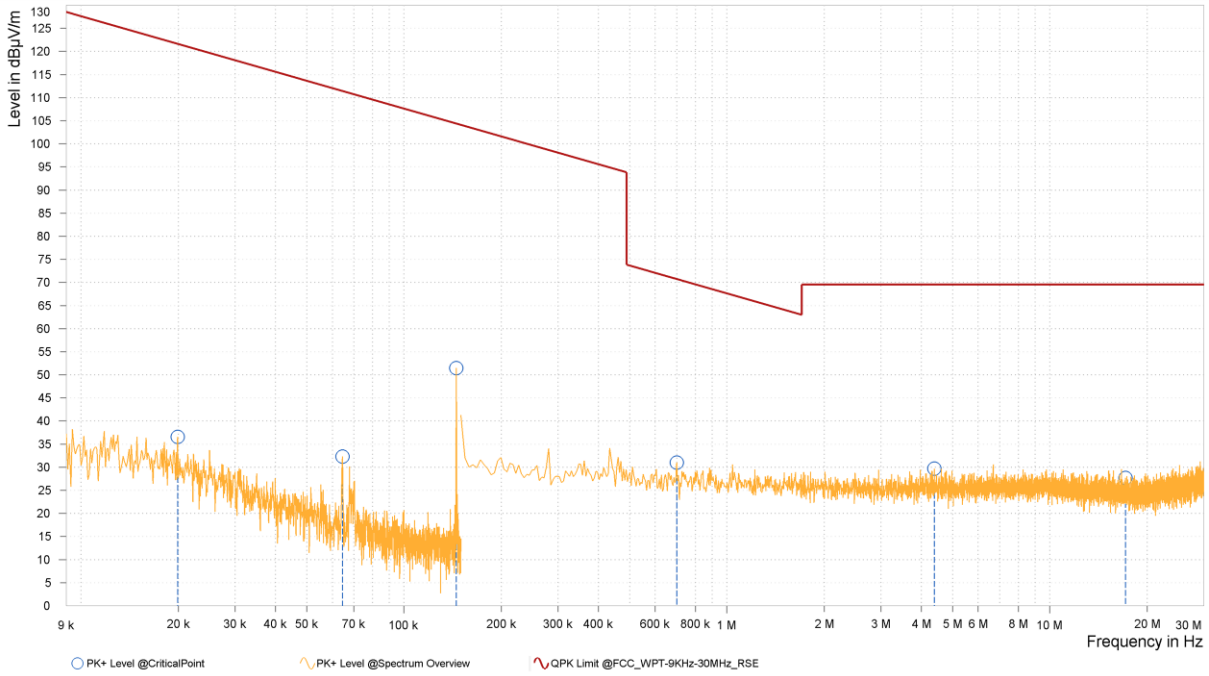
## 3.2.4 TEST RESULTS OF RADIATED EMISSIONS (9 KHZ ~ 30 MHZ)

| Test Mode : | WPT | Temperature : | 23℃ |
|---|---|---|---|
| Test Engineer : | Hanwen Xu | Relative Humidity : | 50% |
| Frequency Range | 9 KHz ~ 30 MHz | Polarization : | Horizontal |




| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+: QPK Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.021 | 36.10 | 121.04 | 84.94 | 20.35 | H | 5 | 1.00 |
| 1 | 0.064 | 33.18 | 111.45 | 78.27 | 20.55 | H | 359.1 | 1.00 |
| 1 | 0.145 | 52.30 | 104.35 | 52.06 | 20.40 | H | 5 | 1.00 |
| 2 | 0.438 | 33.70 | 94.77 | 61.08 | 20.37 | H | 1 | 1.00 |
| 2 | 2.670 | 27.53 | 69.54 | 42.02 | 20.34 | H | 1 | 1.00 |
| 2 | 14.334 | 29.56 | 69.54 | 39.99 | 20.32 | H | 1 | 1.00 |

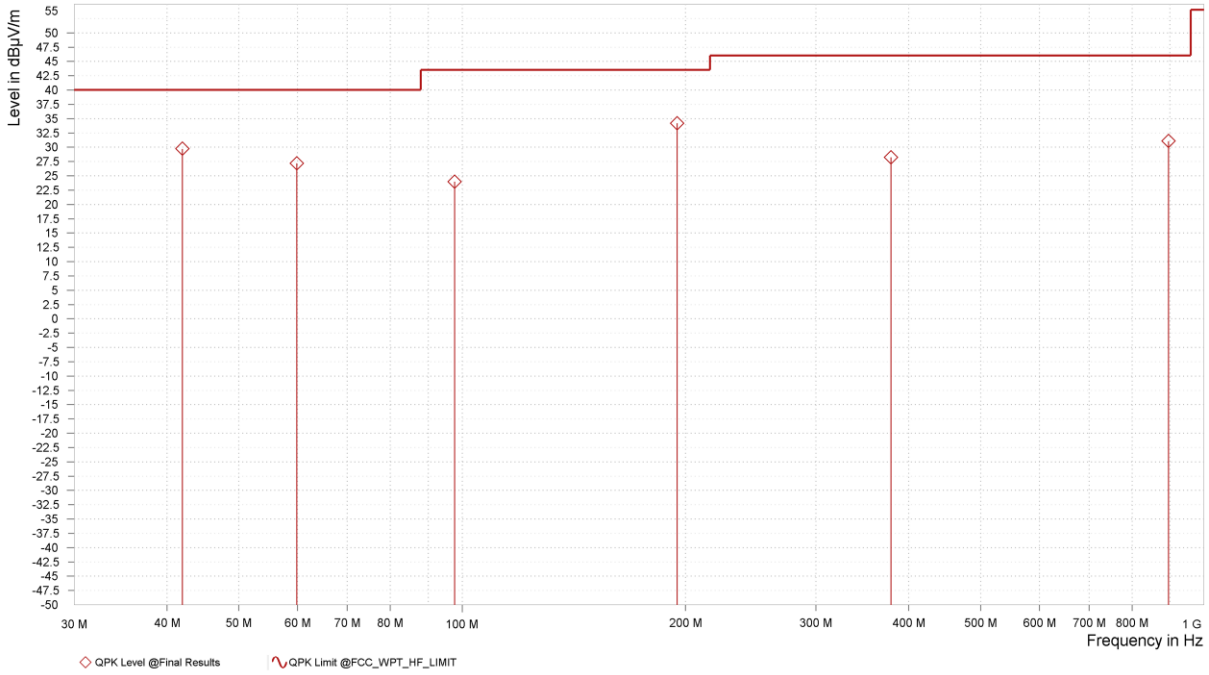
| Test Mode : | WPT | Temperature : | 23℃ |
|---|---|---|---|
| Test Engineer : | Hanwen Xu | Relative Humidity : | 50% |
| Frequency Range | 9 KHz ~ 30 MHz | Polarization : | Vertical |




| Rg | Frequency [MHz] | PK+ Level [dBµV/m] | PK+: QPK Limit [dBµV/m] | PK+ Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.020 | 36.59 | 121.63 | 85.04 | 20.32 | V | 359.1 | 1.00 |
| 1 | 0.065 | 32.30 | 111.41 | 79.11 | 20.55 | V | 359.1 | 1.00 |
| 1 | 0.145 | 51.48 | 104.36 | 52.89 | 20.40 | V | 359.1 | 1.00 |
| 2 | 0.699 | 31.02 | 70.72 | 39.69 | 20.29 | V | 1 | 1.00 |
| 2 | 4.389 | 29.68 | 69.54 | 39.86 | 20.38 | V | 358.9 | 1.00 |
| 2 | 17.147 | 27.70 | 69.54 | 41.85 | 20.31 | V | 1 | 1.00 |

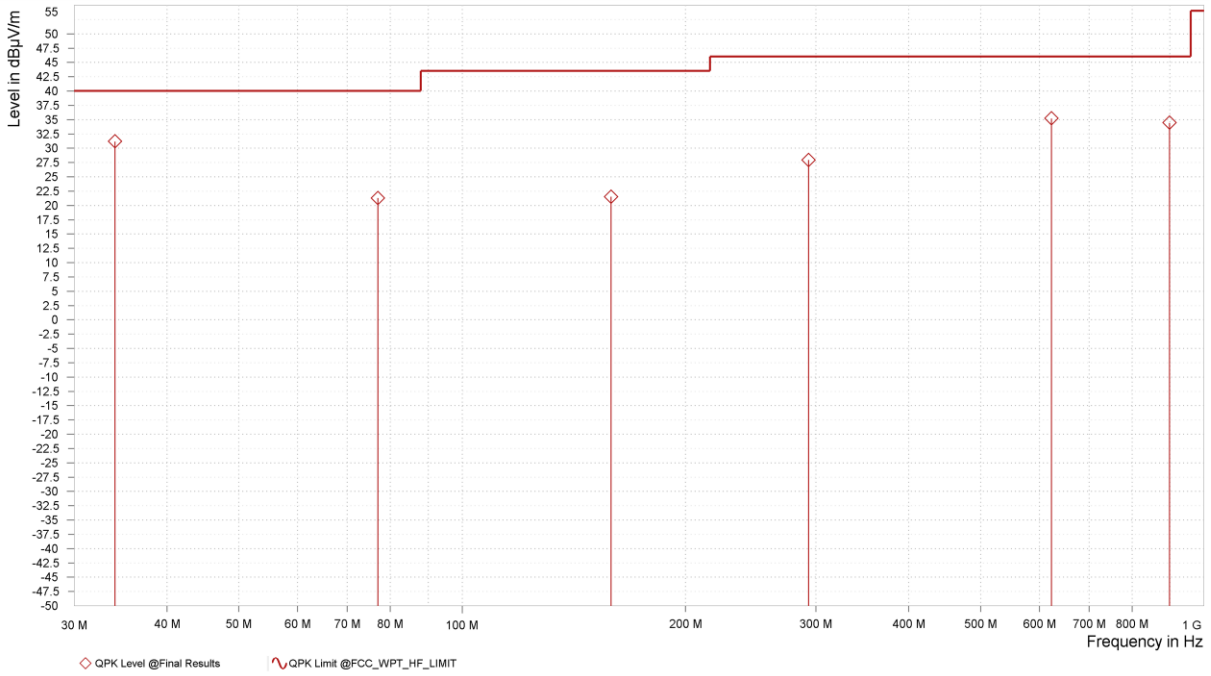
## 3.2.5 TEST RESULT OF RADIATED SPURIOUS EMISSION (30MHZ ~ 1GHZ)

| Test Mode : | WPT | Temperature : | 23℃ |
|---|---|---|---|
| Test Engineer : | Hanwen Xu | Relative Humidity : | 50% |
| Frequency Range | 30MHz~1GHz | Polarization : | Horizontal |




| Rg | Frequency [MHz] | QPK Level [dBµV/m] | QPK Limit [dBµV/m] | QPK Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] | Meas. BW [kHz] |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 41.949 | 29.70 | 40.00 | 10.30 | -4.23 | H | 139.1 | 1.00 | 120.000 |
| 1 | 59.850 | 27.18 | 40.00 | 12.82 | -4.99 | H | 1 | 1.00 | 120.000 |
| 1 | 97.724 | 23.97 | 43.50 | 19.53 | -6.33 | H | 281.4 | 1.00 | 120.000 |
| 1 | 194.900 | 34.17 | 43.50 | 9.33 | -5.41 | H | 139.1 | 1.00 | 120.000 |
| 1 | 378.495 | 28.22 | 46.00 | 17.78 | 1.88 | H | 359 | 1.00 | 120.000 |
| 1 | 895.593 | 31.05 | 46.00 | 14.95 | 7.08 | H | 359 | 1.00 | 120.000 |

| Test Mode : | WPT | Temperature : | 23℃ |
|---|---|---|---|
| Test Engineer : | Hanwen Xu | Relative Humidity : | 50% |
| Frequency Range | 30MHz~1GHz | Polarization : | Vertical |




| Rg | Frequency [MHz] | QPK Level [dBµV/m] | QPK Limit [dBµV/m] | QPK Margin [dB] | Correction [dB] | Polarization | Azimuth [deg] | Antenna Height [m] | Meas. BW [kHz] |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 34.056 | 31.18 | 40.00 | 8.82 | -8.39 | V | 1 | 1.00 | 120.000 |
| 1 | 76.957 | 21.28 | 40.00 | 18.73 | -11.51 | V | 359.1 | 1.00 | 120.000 |
| 1 | 158.701 | 21.53 | 43.50 | 21.97 | -8.18 | V | 136.8 | 1.00 | 120.000 |
| 1 | 293.135 | 27.95 | 46.00 | 18.05 | -1.42 | V | 136.8 | 1.00 | 120.000 |
| 1 | 622.846 | 35.20 | 46.00 | 10.80 | 2.72 | V | 359.1 | 1.00 | 120.000 |
| 1 | 898.415 | 34.43 | 46.00 | 11.57 | 6.93 | V | 276.6 | 1.00 | 120.000 |

# 3.3 AC CONDUCTED EMISSION MEASUREMENT

## 3.3.1 LIMIT OF AC CONDUCTED EMISSION

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| 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 |

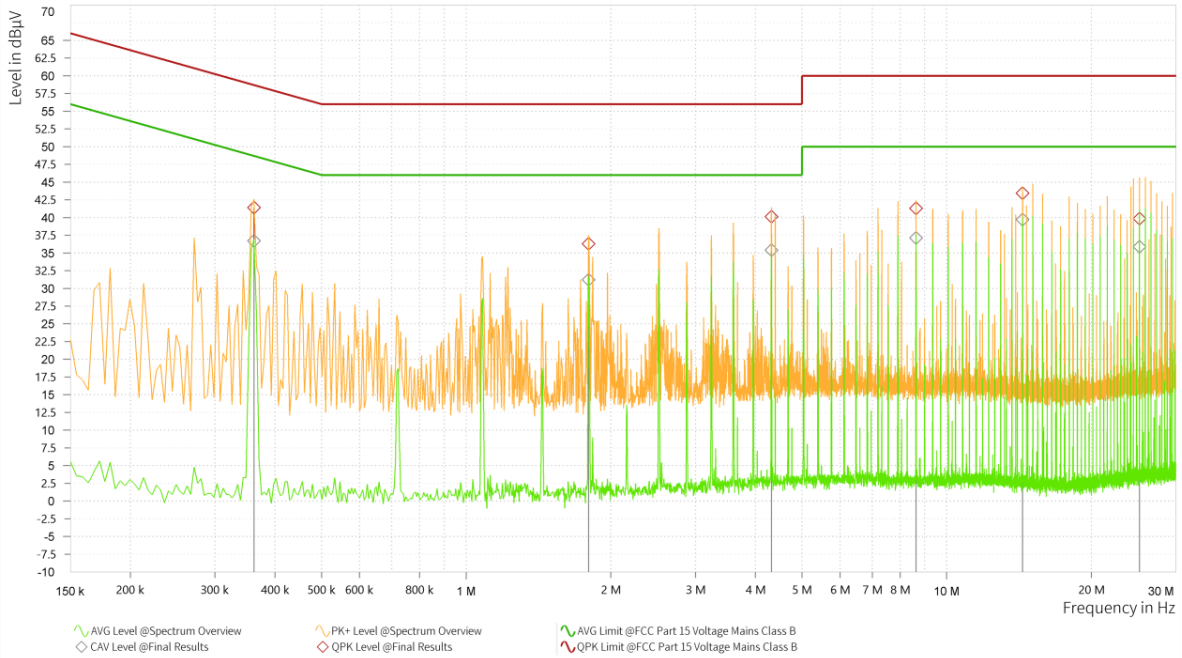
Note: The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

## 3.3.2 TEST PROCEDURES

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

## 3.3.3 TEST RESULT OF AC CONDUCTED EMISSION

| Test Mode : | WPT | Temperature : | 26℃ |
|---|---|---|---|
| Test Engineer : | Hanwen Xu | Relative Humidity : | 51% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | WPT | | |




| Rg | Frequency [MHz] | QPK Level [dBµV] | QPK Limit [dBµV] | QPK Margin [dB] | CAV Level [dBµV] | CAV: AVG Limit [dBµV] | CAV Margin [dB] | Correction [dB] | Line | Meas. BW [kHz] |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.362 | 41.38 | 58.69 | 17.31 | 36.70 | 48.69 | 11.99 | 11.77 | L1 | 9.000 |
| 1 | 1.797 | 36.30 | 56.00 | 19.70 | 31.22 | 46.00 | 14.78 | 11.76 | L1 | 9.000 |
| 1 | 4.317 | 40.13 | 56.00 | 15.87 | 35.40 | 46.00 | 10.60 | 11.78 | L1 | 9.000 |
| 1 | 8.637 | 41.30 | 60.00 | 18.70 | 37.13 | 50.00 | 12.87 | 11.82 | L1 | 9.000 |
| 1 | 14.393 | 43.43 | 60.00 | 16.57 | 39.73 | 50.00 | 10.27 | 11.84 | L1 | 9.000 |
| 1 | 25.188 | 39.85 | 60.00 | 20.15 | 35.88 | 50.00 | 14.12 | 11.89 | L1 | 9.000 |

| Test Mode : | WPT | Temperature : | 26℃ |
|---|---|---|---|
| Test Engineer : | Hanwen Xu | Relative Humidity : | 51% |
| Test Voltage : | AC 120V/60Hz | Phase : | Neutral |
| Function Type : | WPT | | |


| Rg | Frequency [MHz] | QPK Level [dBµV] | QPK Limit [dBµV] | QPK Margin [dB] | CAV Level [dBµV] | CAV: AVG Limit [dBµV] | CAV Margin [dB] | Correction [dB] | Line | Meas. BW [kHz] |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.362 | 46.09 | 58.69 | 12.60 | 42.68 | 48.69 | 6.01 | 12.84 | N | 9.000 |
| 1 | 1.082 | 39.22 | 56.00 | 16.78 | 35.54 | 46.00 | 10.46 | 12.73 | N | 9.000 |
| 1 | 2.517 | 43.11 | 56.00 | 12.89 | 39.52 | 46.00 | 6.48 | 12.74 | N | 9.000 |
| 1 | 6.117 | 38.80 | 60.00 | 21.20 | 35.08 | 50.00 | 14.92 | 12.77 | N | 9.000 |
| 1 | 12.233 | 46.58 | 60.00 | 13.42 | 43.21 | 50.00 | 6.79 | 12.81 | N | 9.000 |
| 1 | 21.588 | 39.11 | 60.00 | 20.89 | 35.70 | 50.00 | 14.30 | 12.86 | N | 9.000 |

# 3.4 ANTENNA REQUIREMENTS

## 3.4.1 STANDARD APPLICABLE

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

## 3.4.2 ANTENNA CONNECTED CONSTRUCTION

A Coil Antenna design is used.

## 3.4.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi.

# 4 LIST OF MEASURING EQUIPMENT

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|---|---|---|---|---|---|
| WIDEBANDRADIO COMMUNICATION TESTER | Rohde&Schwarz | CMW500 | 169399 | Jun.27,22 | Jun.26,24 |
| 3m Semi-anechoic Chamber | TDK | 9m*6m*6m | HRSW-SZ-EMC-02Chamber | Nov.24,22 | Nov.23,25 |
| Bilog Antenna | SCHWARZBECK | VULB 9163 | 1264 | Feb.27,24 | Feb.26,26 |
| Loop Antenna | R&S | HFH2-Z2/Z2E | 100976 | Feb.24,24 | Feb.23,26 |
| Antenna Power Supply | RS | N/A | N/A | N/A | N/A |
| EMI Test Receiver | R&S | ESW44 | 101973 | Feb.24,24 | Feb.23,26 |
| Measurement Software | R&S | ELEKTRA | N/A | N/A | N/A |
| Pre-Amplifier | R&S | SCU08F1 | 101028 | Sep.16,22 | Sep.15,24 |
| CABLE | R&S | W13.01 | N/A | Apr.28,23 | Apr.27,24 |
| CABLE | R&S | W13.01 | N/A | Apr.27,24 | Apr.26,25 |
| CABLE | R&S | W13.02 | N/A | Apr.28,23 | Apr.27,24 |
| CABLE | R&S | W13.02 | N/A | Apr.27,24 | Apr.26,25 |
| CABLE | R&S | W12.14 | N/A | Apr.28,23 | Apr.27,24 |
| CABLE | R&S | W12.14 | N/A | Apr.27,24 | Apr.26,25 |

**NOTE:** 1. The calibration interval of the above test instruments is 12/ 24/ 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2. The test was performed in 3m Chamber.

3. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

# 5 UNCERTAINTY OF EVALUATION

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | UNCERTAINTY |
|---|---|
| AC Power Conducted emissions | ±2.70dB |
| Radiated emissions (9KHz~30MHz) | ±2.68dB |
| Radiated emissions (30MHz~1GHz) | ±4.98dB |
| Occupied Channel Bandwidth | ±43.58KHz |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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