




Test Report

| | | |
|--|--|---|
| Test Report No..... : | TCT240614E019 | |
| Date of issue..... : | Jul. 26, 2024 | |
| Testing laboratory | Shenzhen TCT Testing Technology Co., Ltd. | |
| Testing location/ address: | 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China | |
| Applicant's name..... : | Shenzhen Huafurui Technology Co., Ltd. | |
| Address..... : | Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China | |
| Manufacturer's name ... : | Shenzhen Huafurui Technology Co., Ltd. | |
| Address..... : | Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China | |
| Standard(s) | ETSI EN 300 330 V2.1.1 (2017-02) | |
| Product Name..... : | Smartphone | |
| Trade Mark | CUBOT | |
| Model/Type reference..... : | KINGKONG POWER 3 | |
| Rating(s)..... : | Refer to EUT description of page 3 | |
| Date of receipt of test item | Jun. 14, 2024 | |
| Date (s) of performance of test..... : | Jun. 14, 2024 ~ Jul. 26, 2024 | |
| Tested by (+signature) ... : | Rleo LIU |  |
| Check by (+signature).... : | Beryl ZHAO |  |
| Approved by (+signature): | Tomsin |  |

**General disclaimer:**

This report shall not be reproduced except in full, without the written approval of Shenzhen TCT Testing Technology Co., Ltd.. This document may be altered or revised by Shenzhen TCT Testing Technology Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

TABLE OF CONTENTS

| | |
|--|-----------|
| 1. General Product Information | 3 |
| 1.1. EUT description | 3 |
| 1.2. Model(s) list..... | 3 |
| 2. Test Result Summary | 4 |
| 3. General Information..... | 5 |
| 3.1. Test environment and mode..... | 5 |
| 3.2. Description of Support Units..... | 5 |
| 3.3. Test Instruments List | 6 |
| 4. Facilities and Accreditations | 7 |
| 4.1. Facilities | 7 |
| 4.2. Location | 7 |
| 4.3. Measurement Uncertainty..... | 7 |
| 5. Transmitter Requirement | 8 |
| 5.1. Radiated H-field | 8 |
| 5.2. Permitted range of Operating Frequencies | 10 |
| 5.3. Limits for permitted range of modulation bandwidth..... | 11 |
| 5.4. Transmitter Spurious Radiation | 13 |
| 6. Receiver Requirement..... | 16 |
| 6.1. Adjacent channel selectivity..... | 16 |
| 6.2. Blocking or Desensitization..... | 16 |
| 6.3. Receiver Spurious Radiation..... | 16 |
| 7. Photographs of Test Configuration..... | 18 |
| 8. Photographs of EUT | 19 |

1. General Product Information

1.1. EUT description

| | |
|----------------------------|--|
| Product Name.....: | Smartphone |
| Model/Type reference.....: | KINGKONG POWER 3 |
| Hardware Version.....: | E388_MAIN_PCB_V1.1 |
| Software Version | CUBOT_E071C_KINGKONG POWER 3_V01 |
| Category.....: | II (Portable equipment) |
| Product Class | Class I |
| Operation Frequency | 13.56MHz |
| Antenna Type.....: | FPC Antenna |
| Rating(s).....: | Adapter Information: Model: HJ-PD33W-EU Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 5.0V, 3.0A/ DC 9.0V, 3.0A, 27.0W DC 12.0V, 2.75A, 33.0W MAX Rechargeable Li-polymer Battery DC 3.87V |

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

None.

2. Test Result Summary

| Radio Spectrum Matter (RSM) Part of Tx | | | | |
|---|--|---|---|--------|
| Test Item | Test Requirement | Test Method | Limit/Severity | Result |
| Transmitter H-field requirements | EN 300 330 Clause 4.3.4 | EN 300 330 Clause 6.2.4 | EN 300 330 Clause 4.3.4.3 | PASS |
| Permitted range of operating frequencies | EN 300 330 Clause 4.3.2 | EN 300 330 Clause 6.2.2 | EN 300 330 Clause 4.3.2.3 | PASS |
| Limits for transmitters in the range from 9 kHz to 30 MHz | EN 300 330 Clause 4.3.1 | EN 300 330 Clause 6.2.2 | EN 300 330 Clause 4.3.1.3 | PASS |
| Limits for the permitted range of modulation bandwidth | EN 300 330 Clause 4.3.3 | EN 300 330 Clause 6.2.3 | EN 300 330 Clause 4.3.8.3 | PASS |
| Transmitter radiated spurious | EN 300 330 Clause 4.2.8 Clause 4.2.9 | EN 300 330 Clauses 6.2.8 and clause 6.2.9 | EN 300 330 Clauses 4.3.8.3 and Clause 4.3.9.3 | PASS |

| Radio Spectrum Matter (RSM) Part of Rx | | | | |
|--|----------------------------|---|------------------------------|--------|
| Test Item | Test Requirement | Test Method | Limit/Severity | Result |
| Adjacent channel selectivity | EN 300 330 Clause 4.4.3 | EN 300 330 Clause 6.3.2 | EN 300 330 Clause 4.4.3.3 | N/A |
| Blocking or desensitization | EN 300 330 Clause 4.4.4 | EN 300 330 Clause 6.3.3 | EN 300 330 Clause 4.4.4.3 | N/A |
| Receiver spurious emissions | EN 300 330 Clause 4.4.2 | EN 300 330 Clauses 6.2.8 and Clause 6.2.9 | EN 300 330 Clause 4.4.2.3 | PASS |

Note:

- 1 PASS: Test item meets the requirement.
2. N/A: Test case does not apply to the test object.
3. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test environment and mode

| Item | Normal condition | Extreme condition | | | |
|-----------------------|------------------|--|---------|----------|---------|
| | | HVHT | LVHT | HVLT | LVLT |
| Temperature | +25°C | +40°C | +40°C | -20°C | -20°C |
| Voltage | DC 3.87V | DC 4.35V | DC 3.5V | DC 4.35V | DC 3.5V |
| Humidity | 20%-95% | | | | |
| Atmospheric Pressure: | 1008 mbar | | | | |
| Test Mode: | | | | | |
| Transmitting mode: | | Keep the EUT in transmitting mode with modulation. | | | |
| Receiving mode: | | Keep the EUT in receiving mode. | | | |

3.2. Description of Support Units

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.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|-----------|-----------|------------|--------|------------|
| IC Card | / | / | / | / |

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3.3. Test Instruments List

| Radiated Emission | | | | |
|-------------------|---------------|--------------|---------------|---------------|
| Name | Model No. | Manufacturer | Date of Cal. | Due Date |
| EMI Test Receiver | ESCI7 | R&S | Feb. 01, 2024 | Jan. 31, 2025 |
| Spectrum Analyzer | FSQ40 | R&S | Jun. 27, 2024 | Jun. 26, 2025 |
| Pre-amplifier | 8447D | HP | Jun. 27, 2024 | Jun. 26, 2025 |
| Pre-amplifier | LNPA_0118G-45 | SKET | Feb. 01, 2024 | Jan. 31, 2025 |
| Pre-amplifier | LNPA_1840G-50 | SKET | Feb. 01, 2024 | Jan. 31, 2025 |
| Broadband Antenna | VULB9163 | Schwarzbeck | Jun. 29, 2024 | Jun. 28, 2025 |
| Horn Antenna | BBHA 9120D | Schwarzbeck | Jun. 29, 2024 | Jun. 28, 2025 |
| Horn Antenna | BBHA 9170 | Schwarzbeck | Feb. 03, 2024 | Feb. 02, 2025 |
| Coaxial cable | RE-03-D | SKET | Jun. 27, 2024 | Jun. 26, 2025 |
| Coaxial cable | RE-03-M | SKET | Jun. 27, 2024 | Jun. 26, 2025 |
| Coaxial cable | RE-03-L | SKET | Jun. 27, 2024 | Jun. 26, 2025 |
| Coaxial cable | RE-04-D | SKET | Jun. 27, 2024 | Jun. 26, 2025 |
| Coaxial cable | RE-04-M | SKET | Jun. 27, 2024 | Jun. 26, 2025 |
| Coaxial cable | RE-04-L | SKET | Jun. 27, 2024 | Jun. 26, 2025 |
| Loop antenna | FMZB1519B | Schwarzbeck | Jun. 27, 2024 | Jun. 26, 2025 |
| Spectrum Analyzer | N9020A | Agilent | Jun. 27, 2024 | Jun. 26, 2025 |
| DC Power Supply | KR3005K | Kingrang | Jun. 27, 2024 | Jun. 26, 2025 |
| EMI Test Software | FA-03A2 RE+ | EZ_EMG | / | / |

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

Shenzhen TCT Testing Technology Co., Ltd.

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

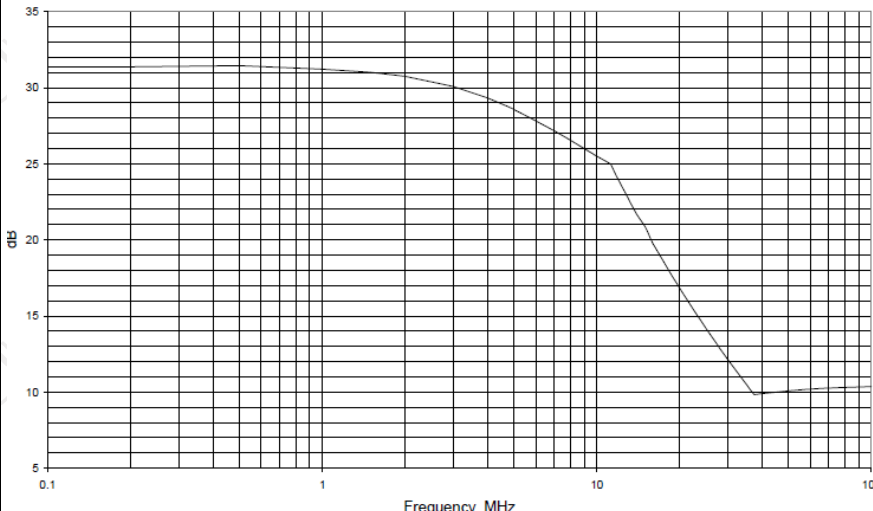
The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| No. | Item | MU |
|-----|---|---------------------------|
| 1 | Conducted Emission | ± 3.10 dB |
| 2 | RF power, conducted | ± 0.12 dB |
| 3 | Spurious emissions, conducted | ± 0.11 dB |
| 4 | All emissions, radiated(<1 GHz) | ± 4.56 dB |
| 5 | All emissions, radiated(1 GHz - 18 GHz) | ± 4.22 dB |
| 6 | All emissions, radiated(18 GHz- 40 GHz) | ± 4.36 dB |
| 7 | Temperature | $\pm 0.1^{\circ}\text{C}$ |
| 8 | Humidity | $\pm 1.0\%$ |

5. Transmitter Requirement

5.1. Radiated H-field

5.1.1. Test Specification

| Test Requirement: | EN 300 330 clause 4.3.4 | | | | | | | | | | | | | | | | |
|------------------------|---|--------------------------------|---|--------------------------------|-----------------------------|---------------------|------------|--------|--------|----------------------|------------|-------|--------|------------------------|------------|---------|---------|
| Test Method: | EN 300 330 clause 6.2.4 and Annex H.2 | | | | | | | | | | | | | | | | |
| Receiver Setup | <table><tr><th>Frequency: (f)</th><th>Detector type</th><th>Measurement receiver bandwidth</th><th>Spectrum analyser bandwidth</th></tr><tr><td>9 kHz ≤ f < 150 kHz</td><td>Quasi Peak</td><td>200 Hz</td><td>300 Hz</td></tr><tr><td>150 kHz ≤ f < 30 MHz</td><td>Quasi Peak</td><td>9 kHz</td><td>10 KHz</td></tr><tr><td>30 MHz ≤ f ≤ 1 000 MHz</td><td>Quasi Peak</td><td>120 kHz</td><td>100 kHz</td></tr></table> <p>NOTE: For the measurement of the ranges 6,765 MHz ≤ f ≤ 6,795 MHz and 11,810 MHz ≤ f ≤ 15,310 MHz, the measurement bandwidth has to be 200 Hz respectively 300 Hz.</p> | Frequency: (f) | Detector type | Measurement receiver bandwidth | Spectrum analyser bandwidth | 9 kHz ≤ f < 150 kHz | Quasi Peak | 200 Hz | 300 Hz | 150 kHz ≤ f < 30 MHz | Quasi Peak | 9 kHz | 10 KHz | 30 MHz ≤ f ≤ 1 000 MHz | Quasi Peak | 120 kHz | 100 kHz |
| Frequency: (f) | Detector type | Measurement receiver bandwidth | Spectrum analyser bandwidth | | | | | | | | | | | | | | |
| 9 kHz ≤ f < 150 kHz | Quasi Peak | 200 Hz | 300 Hz | | | | | | | | | | | | | | |
| 150 kHz ≤ f < 30 MHz | Quasi Peak | 9 kHz | 10 KHz | | | | | | | | | | | | | | |
| 30 MHz ≤ f ≤ 1 000 MHz | Quasi Peak | 120 kHz | 100 kHz | | | | | | | | | | | | | | |
| Limit: | <p>The H-field limit in dBμA/m at 3 m, H_{3m}, is determined by the following equation:</p> $H_{3m} = H_{10m} + C_3$ <p>where:</p> <p>H_{10m} is the H-field limit in dBμA/m at 10 m distance according to the present document; and</p> <p>C₃ is a conversion factor in dB determined from figure H.2.</p>  <p>Limit in 10m:</p> <table><tr><td>13,553 ≤ f ≤ 13,567</td><td>42 (see note 3) or 60 (see notes 2 and 3)</td></tr></table> <p>For 13.56Mz H_{10m} =42 dBμA/m@10m; C₃=23dB;</p> | 13,553 ≤ f ≤ 13,567 | 42 (see note 3) or 60 (see notes 2 and 3) | | | | | | | | | | | | | | |
| 13,553 ≤ f ≤ 13,567 | 42 (see note 3) or 60 (see notes 2 and 3) | | | | | | | | | | | | | | | | |
| Test Procedure: | Refer to EN 300 330 clause 6.2.4 and Annex H.2 | | | | | | | | | | | | | | | | |
| Test Instrument: | Reference to Item 3.3 for details | | | | | | | | | | | | | | | | |
| Test Mode: | Tx mode with modulation | | | | | | | | | | | | | | | | |
| Test Result: | PASS | | | | | | | | | | | | | | | | |

5.1.2. Test Result

| Frequency | Measuring Bandwidth | Test condition | H-field Level @3m | H-field Level @10m | Limit in Table 4 |
|-----------|---------------------|----------------|-------------------|--------------------|------------------|
| 13.56MHz | 9 kHz | NVNT | -2.83dBμA/m | -25.83dBμA/m | 42dBμA/m@10m |
| | | HVHT | -2.89dBμA/m | -25.89dBμA/m | |
| | | HVLT | -2.92dBμA/m | -25.92dBμA/m | |
| | | LVHT | -2.86dBμA/m | -25.86dBμA/m | |
| | | LVLT | -2.85dBμA/m | -25.85dBμA/m | |

5.2. Permitted range of Operating Frequencies

5.2.1. Test Specification

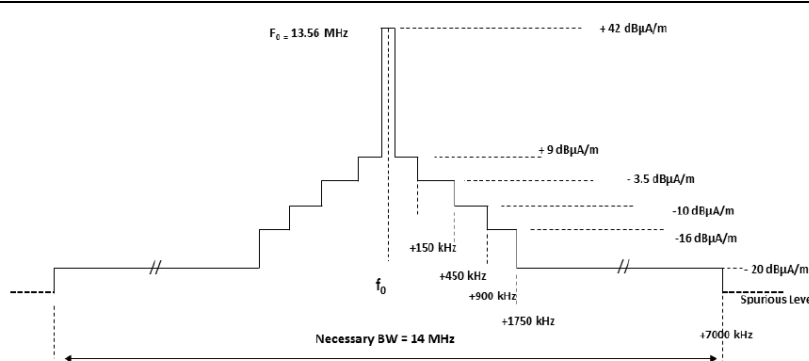
| | |
|--------------------------|--|
| Test Requirement: | EN 300 330 clause 4.3.1 |
| Test Method: | EN 300 330 clause 6.2.2 |
| Limit: | Refer to Table 1: Frequency bands designated to Short Range Devices within 9 kHz to 30 MHz |
| Test Procedure: | Refer to EN 300 330 clause 6.2.2 |
| Test Instrument: | Reference to Item 3.3 for details |
| Test Mode: | Tx mode with modulation |
| Test Result: | PASS |

5.2.2. Test Result

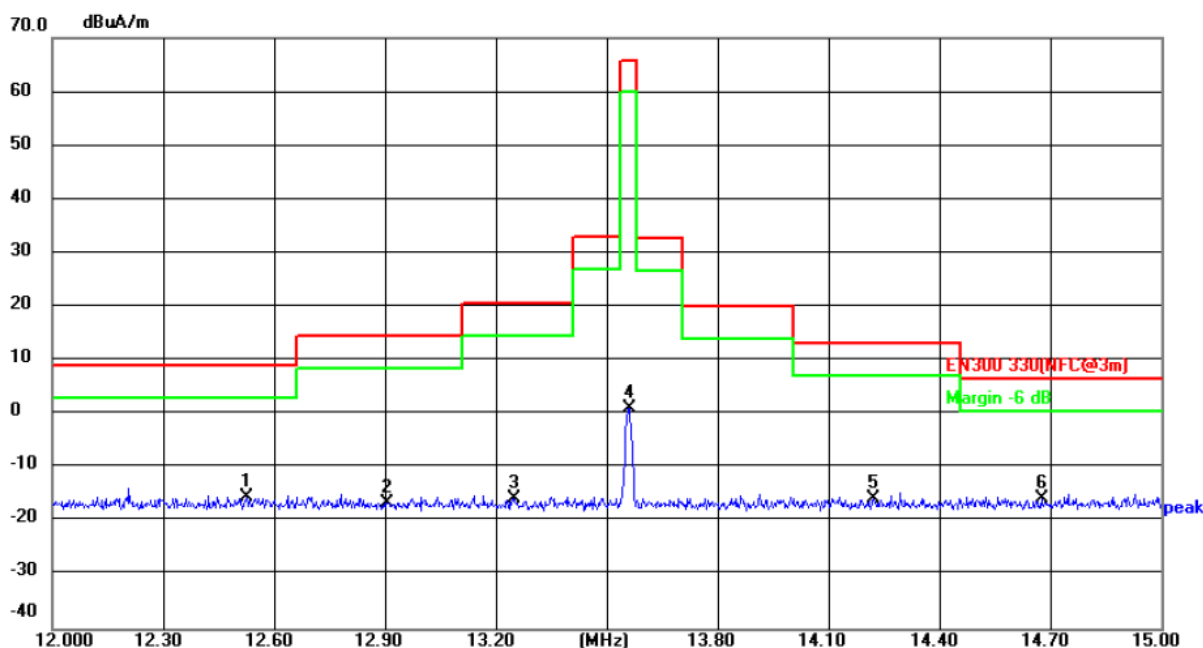
| Measurement Conditions (in Normal & Extreme) | | Bandwidth Measured (MHz) (15dB below carrier) | | Limit (MHz) | |
|---|----------------------------------|--|-------------------|-------------|--------|
| | | Lowest frequency | Highest frequency | Lower | Higher |
| T _{normal} : (+25°C) | V _{norm} : (3.87Vdc) | 13.5597 | 13.5623 | 13.553 | 13.567 |
| T _{extreme} : (-20°C) | V _{extr} : (3.5Vdc) | 13.5592 | 13.5621 | | |
| T _{extreme} : (+40°C) | V _{extr} : (4.35Vdc) | 13.5594 | 13.5618 | | |

5.3.Limits for permitted range of modulation bandwidth

5.3.1. Test Specification

| Test Requirement: | EN 300 330 clause 4.3.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|-----------|---------------|--|-----|----|-------------|------|-------|---------|-----|-------|---------|-----|-------|----------------|------|-------|----------------|------|-------|----------------|-------|-------|----------------|-------|-------|-----------------|-------|------|-----------------|-------|------|
| Test Method: | EN 300 330 clause 6.2.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limit: |  <p>Figure I.3: Spectrum mask limit for wideband RFIDs (incl. NFC application) in the 13,56 MHz range</p> <table><tr><th rowspan="2">Frequency</th><th colspan="2">Limit(dBuA/m)</th></tr><tr><th>10m</th><th>3m</th></tr><tr><td>F0=13.56MHz</td><td>42.0</td><td>65.87</td></tr><tr><td>F0+150K</td><td>9.0</td><td>32.77</td></tr><tr><td>F0+150K</td><td>9.0</td><td>32.98</td></tr><tr><td>F0+(150K~450k)</td><td>-3.5</td><td>20.05</td></tr><tr><td>F0-(150K~450k)</td><td>-3.5</td><td>20.70</td></tr><tr><td>F0+(450K~900k)</td><td>-10.0</td><td>13.22</td></tr><tr><td>F0-(450K~900k)</td><td>-10.0</td><td>14.52</td></tr><tr><td>F0+(900K~1750k)</td><td>-16.0</td><td>6.61</td></tr><tr><td>F0-(900K~1750k)</td><td>-16.0</td><td>9.14</td></tr></table> <p>Note: H3m=H10m+ factor C3</p> | Frequency | Limit(dBuA/m) | | 10m | 3m | F0=13.56MHz | 42.0 | 65.87 | F0+150K | 9.0 | 32.77 | F0+150K | 9.0 | 32.98 | F0+(150K~450k) | -3.5 | 20.05 | F0-(150K~450k) | -3.5 | 20.70 | F0+(450K~900k) | -10.0 | 13.22 | F0-(450K~900k) | -10.0 | 14.52 | F0+(900K~1750k) | -16.0 | 6.61 | F0-(900K~1750k) | -16.0 | 9.14 |
| | Frequency | | Limit(dBuA/m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 10m | 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | F0=13.56MHz | 42.0 | 65.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F0+150K | 9.0 | 32.77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F0+150K | 9.0 | 32.98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F0+(150K~450k) | -3.5 | 20.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F0-(150K~450k) | -3.5 | 20.70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F0+(450K~900k) | -10.0 | 13.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F0-(450K~900k) | -10.0 | 14.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F0+(900K~1750k) | -16.0 | 6.61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F0-(900K~1750k) | -16.0 | 9.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Procedure: | Refer to EN 300 330 clause 6.2.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Instrument: | Reference to Item 3.3 for details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Mode: | Tx mode with modulation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Result: | PASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

5.3.2. Test Result



Site: 3m Anechoic Chamber

Polarization: **Coaxial**

Temperature: 24.8(°C)

Humidity: 51 %

Limit: EN300 330(NFC@3m)

Power:DC 3.87 V

| No. | Frequency (MHz) | Reading (dBuA) | Factor (dB/m) | Level (dBuA/m) | Limit (dBuA/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 | 12.5250 | -9.41 | -6.02 | -15.43 | 9.14 | -24.57 | peak | P | |
| 2 | 12.9065 | -11.09 | -5.26 | -16.35 | 14.52 | -30.87 | peak | P | |
| 3 | 13.2480 | 15.53 | -31.07 | -15.54 | 20.70 | -36.24 | peak | P | |
| 4 | 13.5600 | 32.20 | -31.05 | 1.15 | 65.87 | -64.72 | peak | P | |
| 5 | 14.2218 | 15.36 | -31.01 | -15.65 | 13.22 | -28.87 | peak | P | |
| 6 * | 14.6763 | 15.20 | -30.99 | -15.79 | 6.61 | -22.40 | peak | P | |

Note: The both polarity (Coaxial and Coplanar) have been tested, only show the worst case (Coaxial) in this report.

5.4. Transmitter Spurious Radiation

5.4.1. Test Specification

| | | | |
|--------------------------|---|---|--|
| Test Requirement: | EN 300 330 clause 4.3.8 & clause 4.3.9 | | |
| Test Method: | EN 300 330 clause 6.2.8 & clause 6.2.9 | | |
| Limit: | Frequencies <30 MHz | | |
| | State | Frequency 9 kHz ≤ f < 10 MHz | Frequency 10 MHz ≤ f < 30 MHz |
| | Operating | 27 dBμA/m at 9 kHz descending 3 dB/oct | -3,5 dBμA/m |
| | Standby | 5,5 dBμA/m at 9 kHz descending 3 dB/oct | -25 dBμA/m |
| | Frequencies ≥30 MHz | | |
| | State | 47 MHz to 74 MHz 87,5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 790 MHz | Other frequencies between 30 MHz to 1 000 MHz |
| | Operating | 4 nW | 250 nW |
| | Standby | 2 nW | 2 nW |
| Test Procedure: | Refer to clause 6.2.8 & clause 6.2.9 | | |
| Test Instrument: | Reference to Item 3.3 for details | | |
| Test Mode: | Tx mode with modulation | | |
| Test Result: | PASS | | |
| Remark | The standby mode is too lower than the limit, so not show in this report. | | |

5.4.2. Test Result

| 13.56MHz Tx in operation mode | | | | | |
|--|-----------------|--------------------------|----------------|----------------|-------------|
| Frequency (MHz) | Transducer (dB) | Receiver QP Level (dBuA) | Level (dBuA/m) | Limit (dBuA/m) | Margin (dB) |
| 0.012 | -33.1 | 36.7 | 3.6 | 57.25 | -53.65 |
| 0.051 | -39.2 | 58.2 | 19 | 50.99 | -31.99 |
| 0.115 | -39.5 | 47.5 | 8 | 47.47 | -39.47 |
| 0.280 | -39.0 | 40.4 | 1.4 | 43.62 | -42.22 |
| 0.855 | -39.7 | 26.1 | -13.6 | 38.62 | -52.22 |
| 10.200 | -40.3 | 18.6 | -21.7 | 22.33 | -44.03 |
| 26.400 | -42.4 | 27.4 | -15 | 11.27 | -26.27 |
| 13.56MHz Tx in standby mode | | | | | |
| N/A: Not applicable, since the emission level of the EUT was too weak to be measured. (-70dBm was the minimum level which could be detected by measuring Rx when below 1GHz) | | | | | |

| 13.56MHz Tx in operation mode | | | | |
|-------------------------------|---|--------|-------|------------|
| Maximum Frequency MHz | Spurious Emission position and Level | | Limit | Over Limit |
| | Polarization | dBm | dBm | dB |
| 175.500 | V | -74.46 | -54.0 | -20.46 |
| 188.110 | V | -61.71 | -54.0 | -7.71 |
| 296.750 | V | -75.62 | -36.0 | -39.62 |
| 528.580 | V | -64.76 | -54.0 | -10.76 |
| 555.740 | V | -60.96 | -54.0 | -6.96 |
| 582.900 | V | -74.80 | -54.0 | -20.80 |
| 188.110 | H | -74.94 | -54.0 | -20.94 |
| 271.284 | H | -68.86 | -36.0 | -32.86 |
| 298.440 | H | -75.20 | -36.0 | -39.20 |
| 351.070 | H | -69.97 | -36.0 | -33.97 |
| 556.140 | H | -59.42 | -54.0 | -5.42 |
| 839.950 | H | -72.52 | -36.0 | -36.52 |

6. Receiver Requirement

6.1. Adjacent channel selectivity

6.1.1. Test Specification

| | |
|---------------------|--|
| Test result: | Only for channelized systems in the 27 MHz range, so Not applicable. |
|---------------------|--|

6.2. Blocking or Desensitization

6.2.1. Test Specification

| | |
|---------------------|--|
| Test result: | Receiver blocking or desensitization is only applicable for channelized systems where channel definitions are used, so Not applicable. |
|---------------------|--|

6.3. Receiver Spurious Radiation

6.3.1. Test Specification

| | | |
|--------------------------|--|------------------------------------|
| Test Requirement: | EN 300 330 clause 4.4.2 | |
| Test Method: | EN 300 330 clause 6.3 | |
| Limit: | The spurious components below 30 MHz shall not exceed the generated H-field dB μ A/m values at 10 m. Frequencies <30 MHz | |
| | Frequency 9 kHz \leq f < 10 MHz | Frequency 10 MHz \leq f < 30 MHz |
| | 5,5 dB μ A/m at 9 kHz descending 3 dB/oct | -25 dB μ A/m |
| | Frequencies \geq 30 MHz | |
| | Frequency | Limit (dBm) |
| | Frequencies \geq 30 MHz | -57 |
| Test Procedure: | 1) For radiation below 30 MHz, see clause 6.2.8 2) For radiation at or above 30 MHz, see clause 6.2.9 Convert reading by 51,5 dB for measuring equipment calibrated in dB μ V or dB μ V/m. | |
| Test Instrument: | Reference to Item 3.3 for details | |
| Test Mode: | Receiver mode | |
| Test Result: | PASS | |

6.3.2. Test Data

| Test Result for Operating Mode (9KHz~30MHz) | | | |
|---|------------------------|--|-------------|
| Frequency (MHz) | Measure Level (dBuA/m) | Limit (dBuA/m) | Margin (dB) |
| -- | -- | 5.5 dB μ A/m at 9 kHz descending 3 dB/oct (9KHz – 10MHz) | -- |
| -- | -- | | -- |
| -- | -- | -25 dB μ A/m (10MHz – 30MHz) | -- |
| -- | -- | | -- |
| -- | -- | | -- |

Remark:

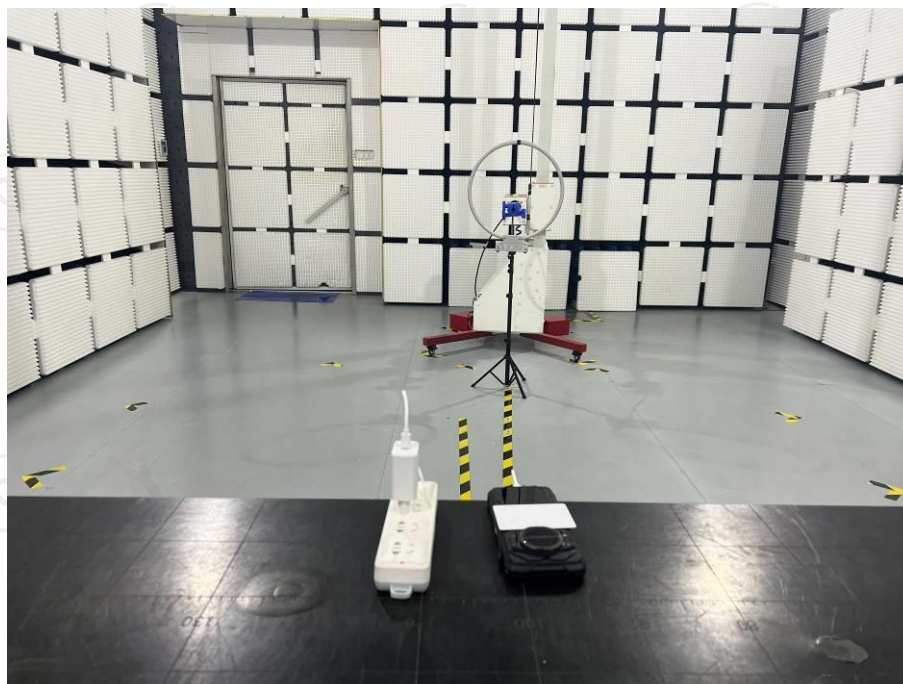
Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. Measured in frequency range from 9k~10th harmonic or 1GHz(which is greater).

| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Test Result |
|-----------------|-------------------|------------|-------------|-------------|
| | polarization | Level(dBm) | | |
| 40.68 | Vertical | -68.73 | -57dBm | PASS |
| 94.92 | V | -66.16 | | |
| 122.04 | V | -72.50 | | |
| - | V | - | | |
| 40.68 | Horizontal | -70.44 | | |
| 94.92 | H | -68.72 | | |
| 122.04 | H | -73.96 | | |
| - | H | - | | |

Note: The test frequency range is 30MHz to 1G, the reading of other frequencies emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured

7. Photographs of Test Configuration

Radiated Emission



8. Photographs of EUT

Refer to the test report No. TCT240614E023

*******END OF REPORT*******