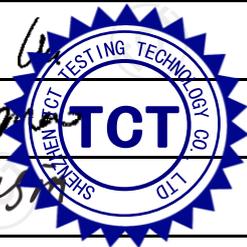


EN IEC 62311:2020 Report

| | | |
|--|--|---|
| Test Report No..... : | TCT240614E025 | |
| 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) | EN IEC 62311:2020 | |
| 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:

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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 |
| 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. General Information

2.1. Test environment and mode

| Item | Normal condition |
|-----------------------|--|
| Temperature | +25°C |
| Voltage | DC 3.87V |
| Humidity | 56% |
| Atmospheric Pressure: | 1008 mbar |
| Test Mode: | |
| Operational Mode | Keep the EUT in transmitting mode with modulation. |

2.2. 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.

2.3. Test Instruments List

| Conducted Emission | | | | |
|-----------------------|-----------|--------------|---------------|---------------|
| Name | Model No. | Manufacturer | Date of Cal. | Due Date |
| Exposure Level Tester | EHP-200A | Narda | Jun. 27, 2024 | Jun. 26, 2025 |

3. Facilities and Accreditations

3.1. 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.

3.2. Location

Shenzhen TCT Testing Technology Co., Ltd.

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

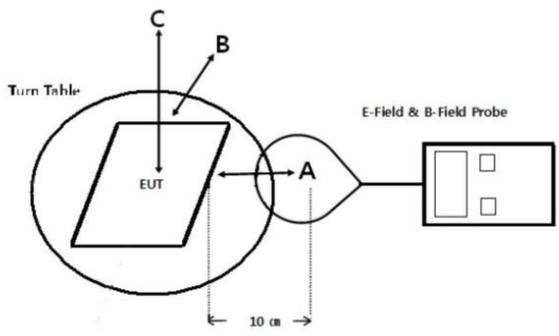
TEL: +86-755-27673339

3.3. 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 | Temperature | $\pm 0.1^\circ\text{C}$ |
| 2 | Humidity | $\pm 1.0\%$ |
| 3 | Spurious Emissions, Conducted | $\pm 1\text{ dB}$ |
| 4 | All emissions, radiated(<1 GHz) | $\pm 4.56\text{ dB}$ |
| 5 | All emissions, radiated(1 GHz - 18 GHz) | $\pm 4.22\text{ dB}$ |

4. Technical Requirements Specification in EN IEC 62311

| Test Requirement: | EN IEC 62311 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|------------------------|------------------------|--|--------------|--|--------|---|-------------------|-----------------|---|--------|--------|---------------------|---------------------|---|---------|--------|-----------|-----------|---|---------------|---------|-------|-------|---|-----------|---------|---|------|---|-----------|----|---|------|---|------------|----|----------|----------|---|----------|--------------|----------|----------|---|------------|----|-------|-------|---|---------------|-----------------|------------------|------------------|---------|-----------|----|------|------|----|
| Limit: | <p style="text-align: center;">Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Frequency range</th> <th style="width: 15%;">E-field strength (V/m)</th> <th style="width: 15%;">H-field strength (A/m)</th> <th style="width: 15%;">B-field (µT)</th> <th style="width: 35%;">Equivalent plane wave power density S_{eq} (W/m²)</th> </tr> </thead> <tbody> <tr> <td>0-1 Hz</td> <td>—</td> <td>$3,2 \times 10^4$</td> <td>4×10^4</td> <td>—</td> </tr> <tr> <td>1-8 Hz</td> <td>10 000</td> <td>$3,2 \times 10^4/f$</td> <td>$4 \times 10^4/f^2$</td> <td>—</td> </tr> <tr> <td>8-25 Hz</td> <td>10 000</td> <td>$4 000/f$</td> <td>$5 000/f$</td> <td>—</td> </tr> <tr> <td>0,025-0,8 kHz</td> <td>$250/f$</td> <td>$4/f$</td> <td>$5/f$</td> <td>—</td> </tr> <tr> <td>0,8-3 kHz</td> <td>$250/f$</td> <td>5</td> <td>6,25</td> <td>—</td> </tr> <tr> <td>3-150 kHz</td> <td>87</td> <td>5</td> <td>6,25</td> <td>—</td> </tr> <tr> <td>0,15-1 MHz</td> <td>87</td> <td>$0,73/f$</td> <td>$0,92/f$</td> <td>—</td> </tr> <tr> <td>1-10 MHz</td> <td>$87/f^{0,2}$</td> <td>$0,73/f$</td> <td>$0,92/f$</td> <td>—</td> </tr> <tr> <td>10-400 MHz</td> <td>28</td> <td>0,073</td> <td>0,092</td> <td>2</td> </tr> <tr> <td>400-2 000 MHz</td> <td>$1,375 f^{0,2}$</td> <td>$0,0037 f^{0,2}$</td> <td>$0,0046 f^{0,2}$</td> <td>$f/200$</td> </tr> <tr> <td>2-300 GHz</td> <td>61</td> <td>0,16</td> <td>0,20</td> <td>10</td> </tr> </tbody> </table> <p>Notes:</p> <ol style="list-style-type: none"> f as indicated in the frequency range column. For frequencies between 100 kHz and 10 GHz, S_{eq}, E_2, H_2, and B_2 are to be averaged over any six-minute period. For frequencies exceeding 10 GHz, S_{eq}, E_2, H_2, and B_2 are to be averaged over any $68/f^{1.05}$ -minute period (f in GHz). No E-field value is provided for frequencies < 1 Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 25 kV/m. Spark discharges causing stress or annoyance should be avoided. | Frequency range | E-field strength (V/m) | H-field strength (A/m) | B-field (µT) | Equivalent plane wave power density S_{eq} (W/m ²) | 0-1 Hz | — | $3,2 \times 10^4$ | 4×10^4 | — | 1-8 Hz | 10 000 | $3,2 \times 10^4/f$ | $4 \times 10^4/f^2$ | — | 8-25 Hz | 10 000 | $4 000/f$ | $5 000/f$ | — | 0,025-0,8 kHz | $250/f$ | $4/f$ | $5/f$ | — | 0,8-3 kHz | $250/f$ | 5 | 6,25 | — | 3-150 kHz | 87 | 5 | 6,25 | — | 0,15-1 MHz | 87 | $0,73/f$ | $0,92/f$ | — | 1-10 MHz | $87/f^{0,2}$ | $0,73/f$ | $0,92/f$ | — | 10-400 MHz | 28 | 0,073 | 0,092 | 2 | 400-2 000 MHz | $1,375 f^{0,2}$ | $0,0037 f^{0,2}$ | $0,0046 f^{0,2}$ | $f/200$ | 2-300 GHz | 61 | 0,16 | 0,20 | 10 |
| Frequency range | E-field strength (V/m) | H-field strength (A/m) | B-field (µT) | Equivalent plane wave power density S_{eq} (W/m ²) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-1 Hz | — | $3,2 \times 10^4$ | 4×10^4 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-8 Hz | 10 000 | $3,2 \times 10^4/f$ | $4 \times 10^4/f^2$ | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-25 Hz | 10 000 | $4 000/f$ | $5 000/f$ | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0,025-0,8 kHz | $250/f$ | $4/f$ | $5/f$ | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0,8-3 kHz | $250/f$ | 5 | 6,25 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-150 kHz | 87 | 5 | 6,25 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0,15-1 MHz | 87 | $0,73/f$ | $0,92/f$ | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-10 MHz | $87/f^{0,2}$ | $0,73/f$ | $0,92/f$ | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-400 MHz | 28 | 0,073 | 0,092 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400-2 000 MHz | $1,375 f^{0,2}$ | $0,0037 f^{0,2}$ | $0,0046 f^{0,2}$ | $f/200$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-300 GHz | 61 | 0,16 | 0,20 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Setup: |  <p>Note: Measurements should be made from all sides and the top of the primary/client pair, with the 10cm measured from the center of the probe(s) to the edge of the device.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Procedure | <ol style="list-style-type: none"> The RF exposure test was performed in anechoic chamber. The measurement probe was placed at test distance (10cm) which is between the edge of the charger and the geometric center of probe. The highest emission level was recorded and compared with limit as soon as measurement of each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------------------------|----------------------------------|
| | points (A, B, C) were completed. |
| Test Instrument: | Refer to section 2.3 for details |
| Test Mode: | Refer to section 2.1 for details |
| Test Results: | PASS |



4.1.1. Test Data

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

| Frequency Range (MHz) | Test Position A (A/m) | Test Position B (A/m) | Test Position C (A/m) | Result (A/m) | Limits Test (A/m) |
|-----------------------|-----------------------|-----------------------|-----------------------|--------------|-------------------|
| 13.56 | 0.02 | 0.04 | 0.03 | 0.054 | 0.073 |

$H = \sqrt{A^2 + B^2 + C^2} = \sqrt{0.02^2 + 0.04^2 + 0.03^2} \text{ A/m} = 0.054\text{A/m}$

Limit = 0.073A/m

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