



TEST REPORT

Applicant: Zhejiang Yihe Sanitary Ware Co., Ltd.

Address: FCC:District A, No. 102 East Taihe Road, Haimen street,

Jiaojiang, Taizhou, Zhejiang, China

IC:No.102 Taihe East Road, Jiaojiang, Taizhou, Zhejiang 317700

China

FCC ID: 2AQBG-RC15

IC: 30808-RC15

HVIN: TYX-RC15-V1.5

Product Name: Remote Control

Model: RC15

Standard(s): 47 CFR Part 15, Subpart C(15.249)

RSS-210 Issue 10, December 2019,

Amendment (April 2020)

RSS-Gen, Issue 5, February 2021 Amendment 2

ANSI C63.10-2013

The above equipment has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR230527182-00

Date Of Issue: 2023/6/20

Reviewed By: Sun Zhong

Sun 2hong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

No. 113, Pingkang Road, Dalang Town, Dongguan,

Guangdong, China Tel: +86-769-82016888

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

Report No.: CR230527182-00

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "\(^{\text{a}}\)". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk "★".

CONTENTS

| TEST FACILITY | 2 |
|--|----|
| DECLARATIONS | 2 |
| DOCUMENT REVISION HISTORY | 5 |
| 1. GENERAL INFORMATION | 6 |
| 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) | |
| 1.2 DESCRIPTION OF TEST CONFIGURATION | |
| 1.2.2 Support Equipment List and Details | |
| 1.2.3 Support Cable List and Details | |
| 1.2.4 Block Diagram of Test Setup | |
| 1.3 MEASUREMENT UNCERTAINTY | 8 |
| 2. SUMMARY OF TEST RESULTS | 9 |
| 3. REQUIREMENTS AND TEST PROCEDURES | 10 |
| 3.1 AC LINE CONDUCTED EMISSIONS | |
| 3.1.1 Applicable Standard | 10 |
| 3.1.2 EUT Setup | 11 |
| 3.1.3 EMI Test Receiver Setup | |
| 3.1.5 Corrected Amplitude & Margin Calculation. | |
| 3.2 RADIATED EMISSIONS | |
| 3.2.1 Applicable Standard | |
| 3.2.2 EUT Setup | |
| 3.2.3 EMI Test Receiver & Spectrum Analyzer Setup | |
| 3.2.5 Corrected Amplitude & Margin Calculation | |
| 3.3 20 DB EMISSION BANDWIDTH: | 16 |
| 3.3.1 Applicable Standard | |
| 3.3.2 EUT Setup | |
| 3.4 ANTENNA REQUIREMENT | |
| 3.4.1 Applicable Standard | 17 |
| 3.4.2 Judgment | 17 |
| 4. Test DATA AND RESULTS | 18 |
| 4.1 AC LINE CONDUCTED EMISSIONS | 18 |
| 4.2 RADIATION SPURIOUS EMISSIONS | 19 |
| 4.3 20 DB EMISSION BANDWIDTH: | 25 |
| 4.4 99% OCCUPIED BANDWIDTH: | 27 |
| 5. RF EXPOSURE EVALUATION | 29 |
| 5.1.1 APPLICABLE STANDARD | 29 |
| | |

| China | Certification | ICT Co | I td | (Dongguan) |
|---------|---------------|---------|------|------------|
| Cillina | Certification | IC I CO | Lia | Dongguani |

| 5.1.2 MEASUREMENT RESULT | 29 |
|--|----|
| 5.2 EXEMPTION LIMITS FOR ROUTINE EVALUATION – SAR EVALUATION | 30 |
| 5.2.1 APPLICABLE STANDARD | 30 |
| 5.2.2 Measurement Result | 30 |

DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|-----------------|----------------|-------------------------|---------------------|
| 1.0 | CR230527182-00 | Original Report | 2023/6/20 |

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

| EUT Name: | Remote Control |
|----------------------|-------------------|
| EUT Model: | RC15 |
| Operation Frequency: | 2404-2480MHz |
| Modulation Type: | GFSK |
| Rated Input Voltage: | 3Vdc from battery |
| Serial Number: | 25WJ-2 |
| EUT Received Date: | 2023/5/22 |
| EUT Received Status: | Good |

Report No.: CR230527182-00

Operation Frequency Detail:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|--------------------|---------|--------------------|---------|-----------------|
| 0 | 2404 | 17 | 2424 | 34 | 2444 | 51 | 2467 |
| 1 | 2405 | 18 | 2425 | 35 | 2445 | 52 | 2468 |
| 2 | 2406 | 19 | 2426 | 36 | 2446 | 53 | 2469 |
| 3 | 2407 | 20 | 2427 | 37 | 2450 | 54 | 2470 |
| 4 | 2408 | 21 | 2428 | 38 | 2451 | 55 | 2471 |
| 5 | 2409 | 22 | 2429 | 39 | 2452 | 56 | 2472 |
| 6 | 2410 | 23 | 2430 | 40 | 2453 | 57 | 2473 |
| 7 | 2411 | 24 | 2434 | 41 | 2454 | 58 | 2474 |
| 8 | 2412 | 25 | 2435 | 42 | 2455 | 59 | 2475 |
| 9 | 2413 | 26 | 2436 | 43 | 2456 | 60 | 2476 |
| 10 | 2414 | 27 | 2437 | 44 | 2457 | 61 | 2477 |
| 11 | 2418 | 28 | 2438 | 45 | 2458 | 62 | 2478 |
| 12 | 2419 | 29 | 2439 | 46 | 2459 | 63 | 2479 |
| 13 | 2420 | 30 | 2440 | 47 | 2460 | 64 | 2480 |
| 14 | 2421 | 31 | 2441 | 48 | 2461 | / | / |
| 15 | 2422 | 32 | 2442 | 49 | 2462 | / | / |
| 16 | 2423 | 33 | 2443 | 50 | 2466 | / | / |

Per section 15.31(m), the below frequencies were performed the test as below:

| Test Channel | Frequency (MHz) |
|--------------|--------------------|
| Lowest | 2404 |
| Middle | 2442 |
| Highest | 2480 |

Antenna Information Detail ▲:

| Antenna Type | input impedance (Ohm) | Antenna Gain /Frequency Range | §15.203 & RSS-Gen Requirement | |
|--|--------------------------|----------------------------------|-------------------------------------|--|
| PCB | 50 | 1.08 dBi/2.4~2.5GHz | Compliance | |
| The Method of §15.203 Compliance: | | | | |
| Antenna must be permanently attached to the unit. | | | | |
| Antenna must use a unique type of connector to attach to the EUT. | | | | |
| Unit must be professionally installed, and installer shall be responsible for verifying that the | | | | |
| correct antenna is employed with the unit. | | | | |

Report No.: CR230527182-00

Accessory Information:

No Accessory.

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

| 1.2.1 LC1 Operation Condition | ## | | |
|---|----|--|--|
| EUT Operation Mode: The system was configured for testing in Engineering Mode, which was provided by the manufacturer. | | | |
| Equipment Modifications: | No | | |
| EUT Exercise Software: No | | | |
| Engineering Mode was provided by manufacturer ▲. The maximum power was configured default setting. | | | |

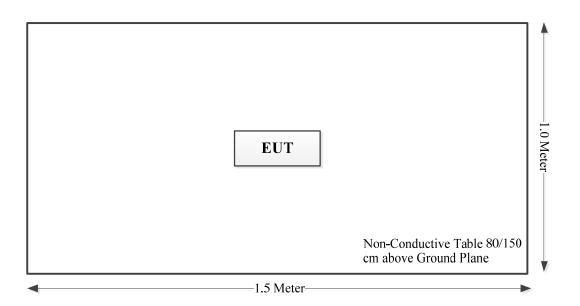
1.2.2 Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| / | / | / | / |

1.2.3 Support Cable List and Details

| Cable Description | Shielding Type | Ferrite Core | Length (m) | From Port | То |
|-------------------|-------------------|--------------|------------|-----------|----|
| / | / | / | / | / | / |

1.2.4 Block Diagram of Test Setup



Report No.: CR230527182-00

1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

| Parameter | Measurement Uncertainty |
|--------------------------------------|--|
| Occupied Channel Bandwidth | ±5 % |
| Unwanted Emissions, radiated | 30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB |
| Temperature | ±1 ℃ |
| Humidity | ±5% |
| DC and low frequency voltages | ±0.4% |
| Duty Cycle | 1% |
| AC Power Lines Conducted Emission | 2.8 dB (150 kHz to 30 MHz) |

2. SUMMARY OF TEST RESULTS

| Standard(s)/Rule(s) | Standard(s)/Rule(s) Description of Test | |
|---|---|----------------|
| §15.203 RSS-GEN Clause 6.8 | Antenna Requirement | Compliant |
| \$15.207(a) RSS-Gen Clause 8.8 | Conduction Emissions | Not Applicable |
| 15.205, §15.209, §15.249 RSS-Gen Clause 8.10 RSS-210 Annex B B.10 | Radiated Emissions | Compliant |
| §15.215 (c) | 20 dB Bandwidth | Compliant |
| RSS-Gen Clause 6.7 | 99% Occupied Bandwidth | Compliant |
| §1.1307 | RF Exposure Evaluation | Compliant |
| RSS-102 Clause 2.5.1 | Exemption Limits For Routine Evaluation-SAR Evaluation | Compliant |

Report No.: CR230527182-00

Note:

Not Applicable: The device powered by battery while operating.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

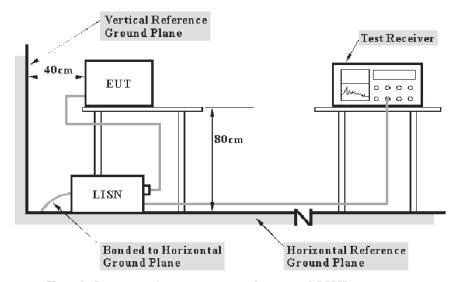
(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu H/50$ ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| | Conducted limit (dBµV) | | |
|-----------------------------|------------------------|-----------|--|
| Frequency of emission (MHz) | Quasi-peak | Average | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | |
| 0.5-5 | 56 | 46 | |
| 5-30 | 60 | 50 | |

^{*}Decreases with the logarithm of the frequency.

- (b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
- (2) For all other carrier current systems: $1000~\mu V$ within the frequency band 535-1705~kHz, as measured using a $50~\mu H/50$ ohms LISN.
- (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Report No.: CR230527182-00

Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W | |
|------------------|--------|--|
| 150 kHz – 30 MHz | 9 kHz | |

3.1.4 Test Procedure

During the conducted emission test, the EUT was connected to the outlet of the first LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

Report No.: CR230527182-00

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor = attenuation caused by cable loss + voltage division factor of AMN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit - Result

3.2 Radiated Emissions

3.2.1 Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Report No.: CR230527182-00

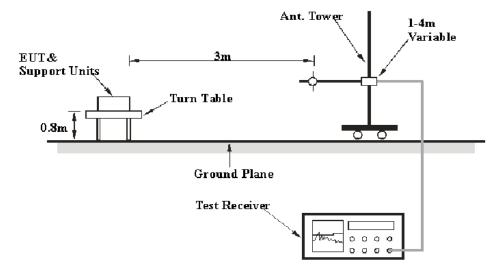
| Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|--------------------------|---|---|
| 902–928 MHz | 50 | 500 |
| 2400–2483.5 MHz | 50 | 500 |
| 5725–5875 MHz | 50 | 500 |
| 24.0–24.25 GHz | 250 | 2500 |

As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

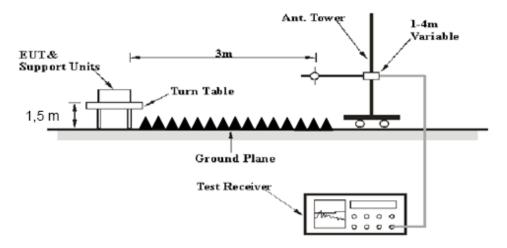
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

3.2.2 EUT Setup

Below 1GHz:



Above 1GHz:



Report No.: CR230527182-00

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.249 limits.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range | RBW | Video B/W | IF B/W | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz | 120 kHz | QP |
| Above 1 CHz | 1MHz | 3 MHz | / | PK |
| Above 1 GHz | 1MHz | 10 Hz | / | AV |

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz - 1 GHz, peak and average detection modes for frequencies above 1 GHz.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor Factor = Antenna Factor + Cable Loss- Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Report No.: CR230527182-00

Margin = Limit - Result

3.3 20 dB Emission Bandwidth:

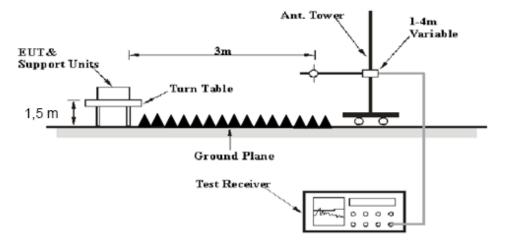
3.3.1 Applicable Standard

FCC §15.215

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.

Report No.: CR230527182-00

3.3.2 EUT Setup



3.3.3Test Procedure

- 1. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 2. Repeat above procedures until all frequencies measured were complete.

3.4 Antenna Requirement

3.4.1 Applicable Standard

FCC §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. 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 a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

Report No.: CR230527182-00

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

3.4.2 Judgment

Please refer to the Antenna Information detail in Section 1.

| China Certification ICT Co., Ltd (Dongguan) | Report No.: CR230527182-00 |
|---|----------------------------|
| 4. Test DATA AND RESULTS | |
| 4.1 AC Line Conducted Emissions | |
| 7.1 AC Line Conducted Emissions | |
| Not Applicable, the device was powered by battery v | when operating. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

4.2 Radiation Spurious Emissions

| Serial Number: | 25WJ-2 | Test Date: | 2023/6/7 |
|----------------|---------------------|--------------|--------------|
| Test Site: | 966-1,966-2 | Test Mode: | Transmitting |
| Tester: | coco Tian, Carl Xue | Test Result: | Pass |

Report No.: CR230527182-00

| Environmental Conditions: | | | | | | | | |
|-------------------------------------|-----------|------------------------|-------|---------------------------|-------|--|--|--|
| Temperature: $(^{\circ}\mathbb{C})$ | 21.6~27.1 | Relative Humidity: (%) | 57~64 | ATM Pressure: (kPa) | 100.2 | | | |

Test Equipment List and Details:

| Test Equipment | List and Details. | | | | |
|--------------------|--------------------------|---------------------------|------------------|---------------------|----------------------|
| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
| Sunol Sciences | Antenna | JB6 | A082520-5 | 2020/10/19 | 2023/10/18 |
| R&S | EMI Test Receiver | ESR3 | 102724 | 2022/07/15 | 2023/07/14 |
| TIMES MICROWAVE | Coaxial Cable | LMR-600- UltraFlex | C-0470-02 | 2022/07/17 | 2023/07/16 |
| TIMES MICROWAVE | Coaxial Cable | LMR-600- UltraFlex | C-0780-01 | 2022/07/17 | 2023/07/16 |
| Sonoma | Amplifier | 310N | 186165 | 2022/07/17 | 2023/07/16 |
| Audix | Test Software | E3 | 201021 (V9) | N/A | N/A |
| ETS-Lindgren | Horn Antenna | 3115 | 9912-5985 | 2020/10/13 | 2023/10/12 |
| R&S | Spectrum Analyzer | FSV40 | 101591 | 2022/07/15 | 2023/07/14 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-1200- 70U300 | 217423-008 | 2022/08/07 | 2023/08/06 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-2362- 300300 | 235780-001 | 2022/08/07 | 2023/08/06 |
| Mini | Pre-amplifier | ZVA-183-S+ | 5969001149 | 2022/11/09 | 2023/11/08 |
| Audix | Test Software | E3 | 201021 (V9) | N/A | N/A |
| PASTERNACK | Horn Antenna | PE9852/2F-20 | 112002 | 2021/02/05 | 2024/02/04 |
| AH | Preamplifier | PAM-1840VH | 190 | 2022/11/09 | 2023/11/08 |
| MICRO-COAX | Coaxial Cable | UFB142A-1-2362- 200200 | 235772-001 | 2022/08/07 | 2023/08/06 |
| E-Microwave | Band Rejection Filter | 2400-2483.5MHz | OE01902424 | 2022/08/07 | 2023/08/06 |
| Mini Circuits | High Pass Filter | VHF-6010+ | 31119 | 2022/08/07 | 2023/08/06 |
| | | | | | |

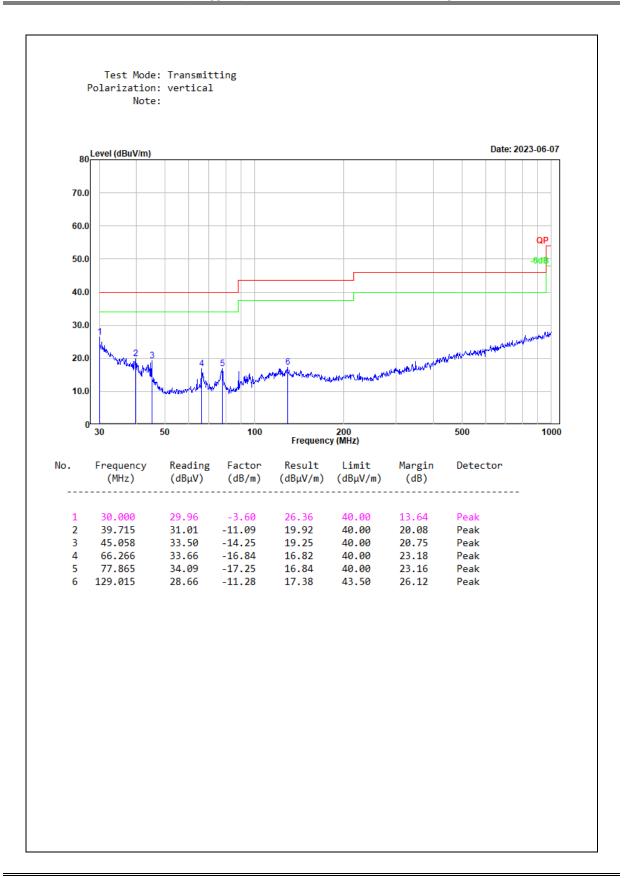
^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Please refer to the below table and plots.

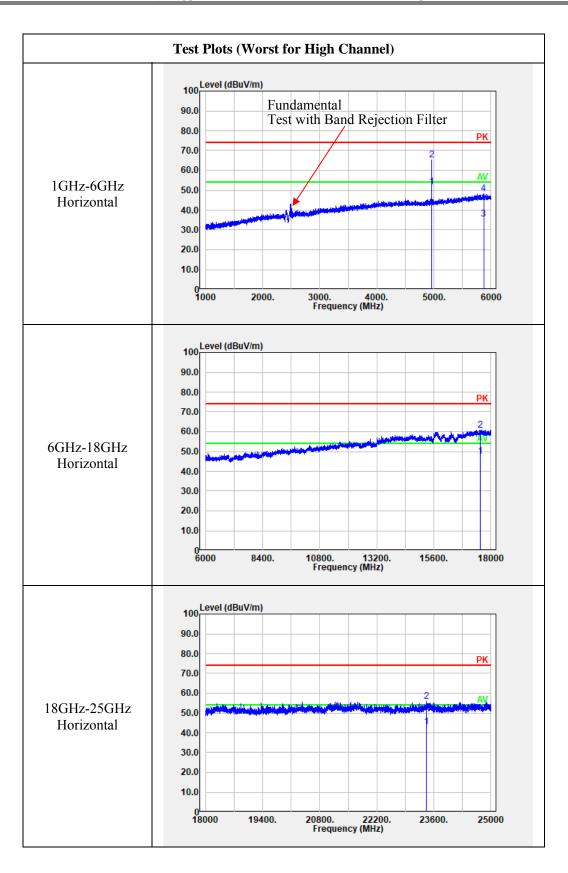
Note: The device can be mounted in multiple orientations, test was performed with X, Y, Z Axis according to C63.10 figure 8, the worst orientation was photographed and it's data was recorded.

1) 30MHz-1GHz (Middle channel was the worst): Test Mode: Transmitting Polarization: horizontal Note: Date: 2023-06-07 80 Level (dBuV/m) 70.0 60.0 50.0 40.0 30.0 20.0 10.0 200 Frequency (MHz) 1000 Frequency No. Reading Factor Result Limit Margin Detector $(dB\mu V)$ (MHz) (dB/m)(dBμV/m) $(dB\mu V/m)$ (dB) 30.853 -4.26 24.22 40.00 28.48 Peak 2 38.346 28.50 -10.00 18.50 40.00 Peak 21.50 57.191 29.71 -17.33 12.38 40.00 3 27.62 Peak 4 130.379 28.12 -11.31 16.81 43.50 26.69 Peak 293.084 28.55 -10.87 17.68 46.00 28.32 Peak 875.247 28.78 -1.18 27.60 46.00 18.40 Peak

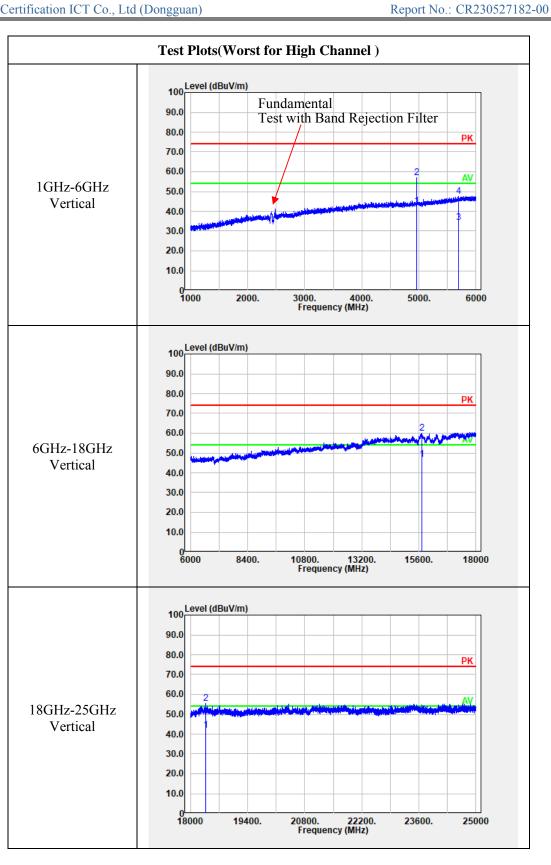


2) 1GHz-25GHz: Test Data:

| Test Data: | Rece | eiver | 5 1 | | - 1 | | |
|-----------------|--------------------------|----------|----------------|---------------|-----------------|----------------|----------------|
| Frequency (MHz) | Reading (dBµV) | Detector | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBµV/m) | Margin (dB) |
| | | Low C | Channel: | 2404 | MHz | | |
| 2404.000 | 58.99 | PK | Н | 31.51 | 90.50 | 113.98 | 23.48 |
| 2404.000 | 58.09 | AV | Н | 31.51 | 89.60 | 93.98 | 4.38 |
| 2404.000 | 48.64 | PK | V | 31.51 | 80.15 | 113.98 | 33.83 |
| 2404.000 | 47.55 | AV | V | 31.51 | 79.06 | 93.98 | 14.92 |
| 2400.000 | 26.34 | PK | Н | 31.50 | 57.84 | 74.00 | 16.16 |
| 2400.000 | 13.57 | AV | Н | 31.50 | 45.07 | 54.00 | 8.93 |
| 4808.000 | 54.76 | PK | Н | 10.92 | 65.68 | 74.00 | 8.32 |
| 4808.000 | 40.71 | AV | Н | 10.92 | 51.63 | 54.00 | 2.37 |
| 7212.000 | 33.86 | PK | Н | 14.26 | 48.12 | 74.00 | 25.88 |
| 7212.000 | 21.03 | AV | Н | 14.26 | 35.29 | 54.00 | 18.71 |
| | Middle Channel: 2442 MHz | | | | | | |
| 2442.000 | 58.43 | PK | Н | 31.61 | 90.04 | 113.98 | 23.94 |
| 2442.000 | 57.68 | AV | Н | 31.61 | 89.29 | 93.98 | 4.69 |
| 2442.000 | 48.60 | PK | V | 31.61 | 80.21 | 113.98 | 33.77 |
| 2442.000 | 47.03 | AV | V | 31.61 | 78.64 | 93.98 | 15.34 |
| 4884.000 | 54.57 | PK | Н | 11.08 | 65.65 | 74.00 | 8.35 |
| 4884.000 | 40.76 | AV | Н | 11.08 | 51.84 | 54.00 | 2.16 |
| 7326.000 | 33.97 | PK | Н | 14.79 | 48.76 | 74.00 | 25.24 |
| 7326.000 | 21.02 | AV | Н | 14.79 | 35.81 | 54.00 | 18.19 |
| | | High (| Channel: | 2480 | MHz | | |
| 2480.000 | 58.01 | PK | Н | 31.64 | 89.65 | 113.98 | 24.33 |
| 2480.000 | 57.11 | AV | Н | 31.64 | 88.75 | 93.98 | 5.23 |
| 2480.000 | 48.23 | PK | V | 31.64 | 79.87 | 113.98 | 34.11 |
| 2480.000 | 47.08 | AV | V | 31.64 | 78.72 | 93.98 | 15.26 |
| 2483.500 | 30.43 | PK | Н | 31.64 | 62.07 | 74.00 | 11.93 |
| 2483.500 | 17.15 | AV | Н | 31.64 | 48.79 | 54.00 | 5.21 |
| 4960.000 | 54.67 | PK | Н | 11.23 | 65.90 | 74.00 | 8.10 |
| 4960.000 | 40.82 | AV | Н | 11.23 | 52.05 | 54.00 | 1.95 |
| 7440.000 | 34.15 | PK | Н | 15.26 | 49.41 | 74.00 | 24.59 |
| 7440.000 | 21.33 | AV | Н | 15.26 | 36.59 | 54.00 | 17.41 |



Page 23 of 30



Page 24 of 30

4.3 20 dB Emission Bandwidth:

| Serial Number: | 25WJ-2 | Test Date: | 2023/6/19 |
|----------------|-----------|--------------|--------------|
| Test Site: | 966-1 | Test Mode: | Transmitting |
| Tester: | coco Tian | Test Result: | Pass |

Report No.: CR230527182-00

| Environmental Conditions: | | | | | | | |
|---------------------------|----|------------------------|----|---------------------------|-----|--|--|
| Temperature: (°C) | 24 | Relative Humidity: (%) | 60 | ATM Pressure: (kPa) | 101 | | |

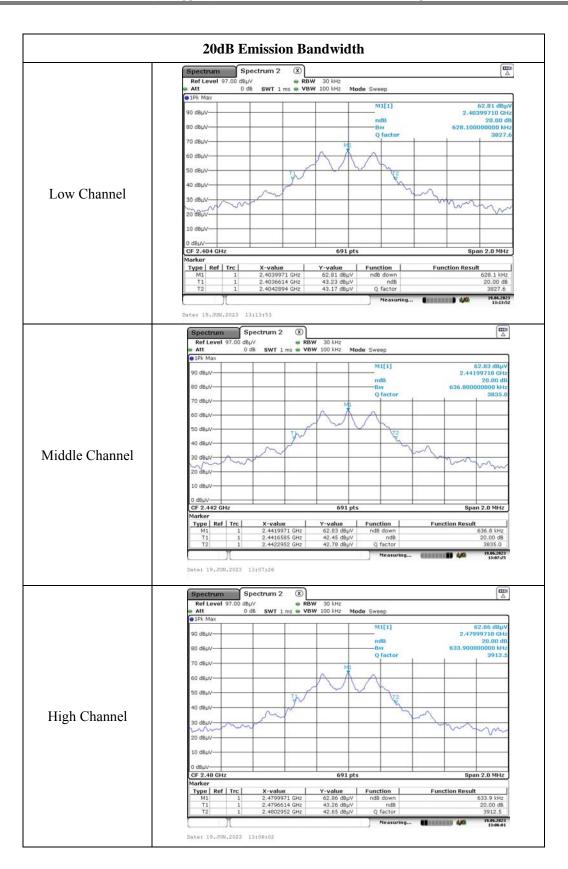
Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|---------------------------|------------------|---------------------|-------------------------|
| ETS-Lindgren | Horn Antenna | 3115 | 9912-5985 | 2020/10/13 | 2023/10/12 |
| R&S | Spectrum Analyzer | FSV40 | 101591 | 2022/07/15 | 2023/07/14 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-1200- 70U300 | 217423-008 | 2022/08/07 | 2023/08/06 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-2362- 300300 | 235780-001 | 2022/08/07 | 2023/08/06 |
| Audix | Test Software | E3 | 201021 (V9) | N/A | N/A |

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

| Test Channel | Test Frequency (MHz) | 20 dB Bandwidth (MHz) |
|-----------------|----------------------|--------------------------|
| Low | 2404 | 0.628 |
| Middle | 2442 | 0.637 |
| High | 2480 | 0.634 |



Page 26 of 30

4.4 99% Occupied Bandwidth:

| 4.4 77 70 Occupi | 1.1 77 / 0 Occupica Bana wiatii: | | | | | |
|------------------|----------------------------------|--------------|--------------|--|--|--|
| Serial Number: | 25WJ-2 | Test Date: | 2023/6/19 | | | |
| Test Site: | 966-1 | Test Mode: | Transmitting | | | |
| Tester: | coco Tian | Test Result: | Pass | | | |

Report No.: CR230527182-00

| Environmental Conditions: | | | | | |
|---------------------------|-----------------------|--|--|--|--|
| Temperature: (°C) | Relative Humidity: 60 | Temperature: $\binom{^{\circ}}{(^{\circ})}$ 24 | | | |

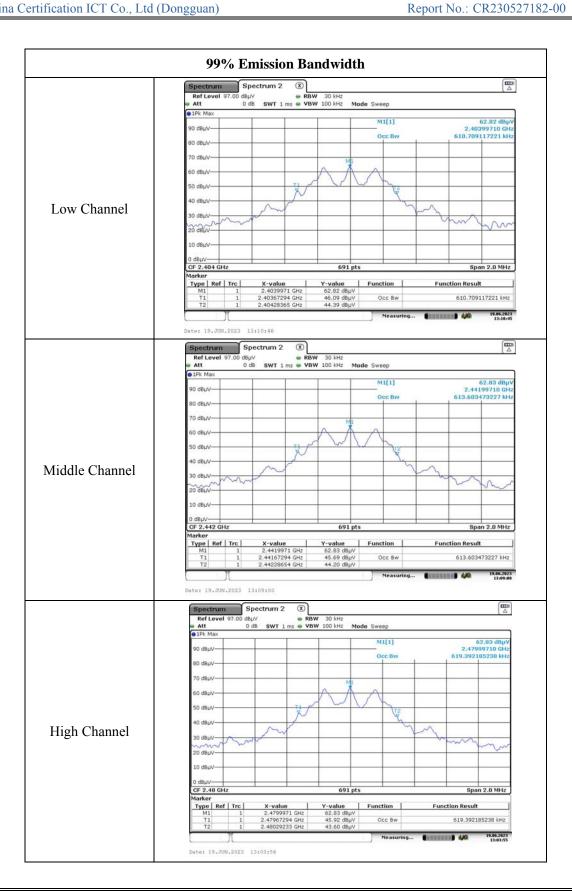
Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|---------------------------|------------------|---------------------|-------------------------|
| ETS-Lindgren | Horn Antenna | 3115 | 9912-5985 | 2020/10/13 | 2023/10/12 |
| R&S | Spectrum Analyzer | FSV40 | 101591 | 2022/07/15 | 2023/07/14 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-1200- 70U300 | 217423-008 | 2022/08/07 | 2023/08/06 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-2362- 300300 | 235780-001 | 2022/08/07 | 2023/08/06 |
| Audix | Test Software | E3 | 201021 (V9) | N/A | N/A |

^{*} Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

| Test Channel | Test Frequency (MHz) | 99% Bandwidth (MHz) |
|-----------------|----------------------|------------------------|
| Low | 2404 | 0.611 |
| Middle | 2442 | 0.614 |
| High | 2480 | 0.619 |



Page 28 of 30

5. RF EXPOSURE EVALUATION

5.1.1 Applicable Standard

According to 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.2- 1-mW Test Exemption:

Per §1.1307(b)(3)(i)(A), a single RF source is *exempt RF device* (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

Report No.: CR230527182-00

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

5.1.2 Measurement Result

| Radio | Frequency | Maximum EIRP | Maximum ERP | | 1-mW | | 1-mW |
|-------|-----------|--------------|-------------|------|----------------|--|------|
| Kaulo | (MHz) | (dBm) | dBm | mW | Test Exemption | | |
| SRD | 2404-2480 | -4.7 | -6.85 | 0.21 | Compliant | | |

Note:

- 1. chose the maximum power to do RF exposure analysis.
- 2. This device maximum E-Field level is 90.5 dBµV/m at 3m, so the EIRP power is -4.7 dBm.
- 3. EIRP (dBm)=Field Strength of Fundamental(dBuV/m)-95.2 (dB)
- 4. ERP (dBm) = EIRP (dBm) 2.15(dB)

Result: Compliant. RF Exposure is exemption.

5.2 Exemption Limits for Routine Evaluation – SAR Evaluation

5.2.1 Applicable Standard

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1. For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5.

Report No.: CR230527182-00

Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance 45

| Frequency | Exemption Limits (mW) | | | | | |
|-----------|-----------------------|---------------|---------------|---------------|---------------|--|
| (MHz) | At separation | At separation | At separation | At separation | At separation | |
| | distance of | distance of | distance of | distance of | distance of | |
| | ≤5 mm | 10 mm | 15 mm | 20 mm | 25 mm | |
| ≤300 | 71 mW | 101 mW | 132 mW | 162 mW | 193 mW | |
| 450 | 52 mW | 70 mW | 88 mW | 106 mW | 123 mW | |
| 835 | 17 mW | 30 mW | 42 mW | 55 mW | 67 mW | |
| 1900 | 7 m W | 10 mW | 18 mW | 34 mW | 60 mW | |
| 2450 | 4 m W | 7 mW | 15 mW | 30 mW | 52 mW | |
| 3500 | 2 m W | 6 mW | 16 mW | 32 mW | 55 mW | |
| 5800 | 1 mW | 6 mW | 15 mW | 27 mW | 41 mW | |

| Frequency | Exemption Limits (mW) | | | | | |
|-----------|-----------------------|---------------|---------------|---------------|---------------|--|
| (MHz) | At separation | At separation | At separation | At separation | At separation | |
| | distance of | distance of | distance of | distance of | distance of | |
| | 30 mm | 35 mm | 40 mm | 45 mm | ≥50 mm | |
| ≤300 | 223 mW | 254 mW | 284 mW | 315 mW | 345 mW | |
| 450 | 141 mW | 159 mW | 177 mW | 195 mW | 213 mW | |
| 835 | 80 mW | 92 mW | 105 mW | 117 mW | 130 mW | |
| 1900 | 99 mW | 153 mW | 225 mW | 316 mW | 431 mW | |
| 2450 | 83 mW | 123 mW | 173 mW | 235 mW | 309 mW | |
| 3500 | 86 mW | 124 mW | 170 mW | 225 mW | 290 mW | |
| 5800 | 56 mW | 71 mW | 85 mW | 97 mW | 106 mW | |

5.2.2 Measurement Result

 $E[dB\mu V/m] = EIRP[dBm] + 95.2$, for d = 3 m.

The maximum field strength of fundamental is 90.5 dBμV/m at 3m, so EIRP is -4.7 dBm(0.34mW).

The exemption power(P) limits for routine evaluation in 2404-2480MHz is: (2480-2450)/(3500-2450)=(P-4)/(2-4)

=>P=3.94 mW@2480 MHz

> 0.34 mW

So the stand-alone SAR evaluation can be exempted.

===== END OF REPORT =====