



TEST REPORT

Applicant Name : Address :

Report Number : FCC ID: Zeeva International Limited Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong SZNS211105-57017E-RF-00 2ADM5-ET-0099-40

Test Standard (s) FCC PART 15.229

Sample Description

Product Type: Model No.: Multiple Model(s) No.: Trade Mark: Date Received: Date of Test: Report Date:

RC SPEEDBOAT AST ET-0099 N/A N/A 2021/11/05 2021/12/28~2021/12/31 2022/01/04

Test Result:

Pass*

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Ting Lv EMC Engineer

Approved By:

Candy, Cr

Candy Li EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "* ".

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| TEST PROCEDURE | §15.229(D) - FREQUENCY TOLERANCE | |
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| | | |
| | | |

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| SKU Number | Red:5155019 |
|---------------------------|---|
| UPC Number | Red:1922347900128 |
| Frequency Range | 40.68MHz |
| Maximum Field Strength@3m | 40.09 dBµV/m |
| Modulation Technique | ASK |
| Antenna Specification* | 3 dBi(It is provided by the applicant) |
| Voltage Range | 1.5V*3 batteries |
| Sample serial number | SZNS211105-57017E-RF-S1 (Assigned by ATC) |
| Sample/EUT Status | Good condition |

Objective

This test report is in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.209, 15.215 and 15.229 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

| Measurement | Uncertainty |
|-------------|-------------|
|-------------|-------------|

| Para | meter | Uncertainty | | |
|------------------------------------|------------------|-----------------|--|--|
| Occupied Char | nnel Bandwidth | 5% | | |
| RF Fre | equency | $0.082*10^{-7}$ | | |
| RF output pov | wer, conducted | 0.73dB | | |
| Unwanted Emi | ssion, conducted | 1.6dB | | |
| AC Power Lines Conducted Emissions | | 2.72dB | | |
| | 9kHz - 30MHz | 2.66dB | | |
| - · · | 30MHz - 1GHz | 4.28dB | | |
| Emissions, Radiated | 1GHz - 18GHz | 4.98dB | | |
| Radiated | 18GHz - 26.5GHz | 5.06dB | | |
| | 26.5GHz - 40GHz | 4.72dB | | |
| Temp | erature | 1 °C | | |
| Hun | nidity | 6% | | |
| Supply | voltages | 0.4% | | |

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

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

EUT Exercise Software

No exercise software was made to the EUT tested.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

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

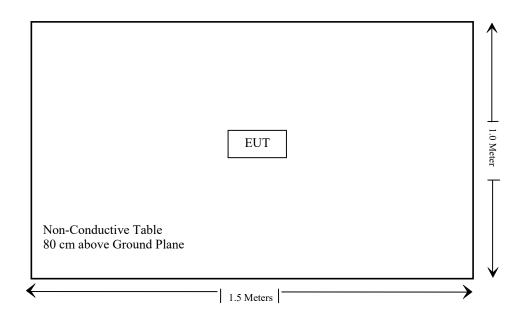
External I/O Cable

| Cable Description | Length (m) | From Port | То |
|-------------------|------------|-----------|----|
| / | / | / | / |

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Block Diagram of Test Setup

For radiated emission:



SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|-------------------------------|---------------------------------|----------------|
| §15.203 | Antenna Requirement | Compliant |
| §15.207 | AC Line Conducted Emissions | Not Applicable |
| \$15.229 \$15.209 \$15.205 | Radiated Emission Test | Compliant |
| §15.215(c) | 20dB Emission Bandwidth Testing | Compliant |
| §15.229(d) | Frequency Tolerance | Compliant |

Not Applicable: The EUT is powered by battery.

TEST EQUIPMENT LIST

| Manufacturer | anufacturer Description | | Serial Number | Calibration Date | Calibration Due Date |
|----------------------|--------------------------------|----------------------------------|------------------|---------------------|-------------------------|
| Rohde& Schwarz | Test Receiver | ESR | 102725 | 2021/12/13 | 2022/12/12 |
| SONOMA INSTRUMENT | Amplifier | 310 N | 186131 | 2021/11/09 | 2022/11/08 |
| Schwarzbeck | Bilog Antenna | VULB9163 | 9163-323 | 2021/07/06 | 2024/07/05 |
| Radiated Emission Te | st Software: e3 19821b (V | 9) | | | |
| Unknown | Unknown RF Coaxial Cable | | N040 | 2021/12/14 | 2022/12/13 |
| Unknown | wn RF Coaxial Cable | | N300 | 2021/12/14 | 2022/12/13 |
| Unknown | RF Coaxial Cable | No.14 | N800 | 2021/12/14 | 2022/12/13 |
| Gongwen | gwen Temp. & Humid. Chamber | | 109 | 2021/10/14 | 2022/10/13 |
| UNI-T | UNI-T DC Power Supply | | 2109D09033 24 | 2021/09/07 | 2022/09/06 |
| FLUKE multimeter | | 15B PRO digital multimeter | 55761443WS | 2021/09/07 | 2022/09/06 |

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to 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 use of a standard antenna jack or electrical connector is prohibited.

Antenna Connector Construction

The EUT has a whip antenna arrangement, which was permanently attached and the antenna gain is 3 dBi, fulfill the requirement of this section. Please refer to EUT photos.

Result: Compliant.

FCC §15.229, §15.205 & §15.209 - RADIATED EMISSIONS TEST

Applicable Standard

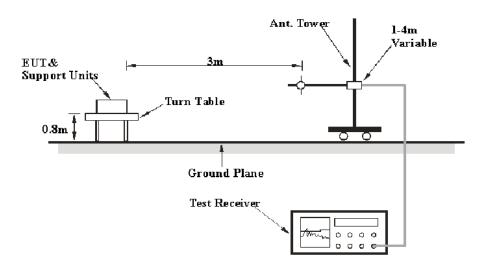
As per FCC Part 15.229

(a) Unless operating pursuant to the provisions in §15.231, the field strength of any emissions within this band shall not exceed 1,000 microvolts/meter at 3 meters.

(b) As an alternative to the limit in paragraph (a) of this section, perimeter protection systems may demonstrate compliance with the following: the field strength of any emissions within this band shall not exceed 500 microvolts/meter at 3 meters, as determined using measurement instrumentations employing an average detector. The provisions in §15.35 for limiting peak emissions apply where compliance of these devices is demonstrated under this alternative emission limit.

(c) The field strength of any emissions appearing outside of this band shall not exceed the general radiated emission limits in §15.209.

EUT Setup



The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part 15.205 and 15.209 and 15.229 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 1000 MHz.

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 | Detector | |
|---------------------------|--|-----------|---------|----------|--|
| 30 MHz – 1000 MHz 100 kHz | | 300 kHz | 120 kHz | QP | |

Test Procedure

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

All final data out of band was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz, within the operating band was recorded in peak and average detection mode.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform a QP/Average measurement.

Corrected Amplitude & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

| Temperature: | 24~25 ℃ |
|---------------------------|-----------|
| Relative Humidity: | 56~64 % |
| ATM Pressure: | 101.0 kPa |

Testing was performed by Chao Mo on 2021-12-28 and 2021-12-31.

Test mode: Transmitting (Scan with X-AXIS, Y-AXIS, Z-AXIS, the worst case was Y-AXIS which was recorded)

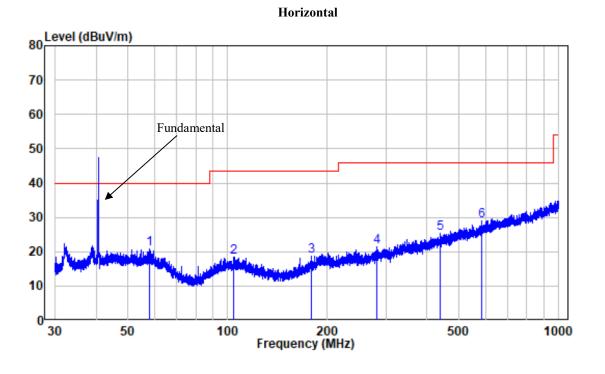
| Frequency | Reading | Turntable | Rx Antenna | | Factor | Corrected | FCC PART 15.229 | | | |
|-----------|---------|------------|------------|---------------|------------------|-------------------|-----------------------|----|----------------|-----------------|
| (MHz) | (dBµV) | PK/QP/Ave. | Degree | Height (m) | Polar (H / V) | $(d\mathbf{D}/m)$ | Amplitude (dBuV/m) | | Margin (dB) | Remark |
| 40.68 | 66.67 | PK | 186 | 1.1 | Н | -18.54 | 48.13 | 60 | -11.87 | F 1 1 -1 |
| 40.68 | 77.17 | PK | 175 | 1.3 | V | -18.54 | 58.63 | 60 | -1.37 | Fundamental |
| 40.66 | 49.80 | PK | 222 | 1.2 | V | -18.54 | 31.26 | 40 | -8.74 | Band edge |
| 40.70 | 50.06 | PK | 222 | 1.2 | V | -18.53 | 31.53 | 40 | -8.47 | Band edge |

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading Margin = Corrected. Amplitude - Limit

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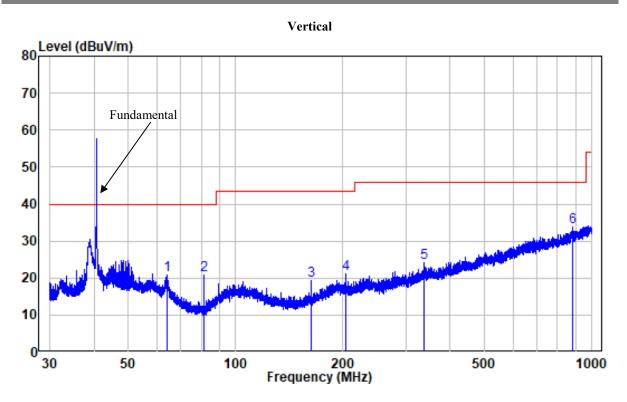
30 MHz~1 GHz



| | | | | | Limit | | |
|---|---------|--------|-------|--------|--------|--------|--------|
| | Freq | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | |
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 58.050 | -9.92 | 30.63 | 20.71 | 40.00 | -19.29 | Peak |
| 2 | 104.307 | -11.77 | 30.15 | 18.38 | 43.50 | -25.12 | Peak |
| 3 | 178.367 | -12.93 | 31.74 | 18.81 | 43.50 | -24.69 | Peak |
| 4 | 281.131 | -9.56 | 30.90 | 21.34 | 46.00 | -24.66 | Peak |
| 5 | 437.503 | -5.67 | 30.91 | 25.24 | 46.00 | -20.76 | Peak |
| 6 | 584.021 | -3.08 | 32.05 | 28.97 | 46.00 | -17.03 | Peak |

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| | Freq | Factor | | | Limit Line | | Remark |
|---|---------|--------|-------|--------|---------------|--------|--------|
| - | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 64.039 | -12.16 | 32.86 | 20.70 | 40.00 | -19.30 | Peak |
| 2 | 81.354 | -16.70 | 37.65 | 20.95 | 40.00 | -19.05 | Peak |
| 3 | 162.753 | -14.29 | 33.48 | 19.19 | 43.50 | -24.31 | Peak |
| 4 | 203.434 | -11.69 | 32.79 | 21.10 | 43.50 | -22.40 | Peak |
| 5 | 337.807 | -7.51 | 31.77 | 24.26 | 46.00 | -21.74 | Peak |
| 6 | 883.341 | 1.11 | 32.71 | 33.82 | 46.00 | -12.18 | Peak |

§15.215(c) - 20dB EMISSION BANDWIDTH TESTING

Applicable Standard

Per 15.215 (c), Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Test Procedure

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

Test Data

Environmental Conditions

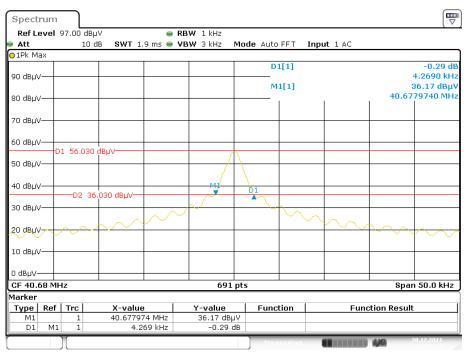
| Temperature: | 25 °C |
|---------------------------|-----------|
| Relative Humidity: | 56 % |
| ATM Pressure: | 101.0 kPa |

Testing was performed by Chao Mo on 2021-12-30.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following table and plots

| Fl(MHz) | Fh(MHz) | Permitted frequency range(MHz) | Result |
|-----------|-----------|--------------------------------|-----------|
| 40.677974 | 40.682243 | 40.66-40.70 | Compliant |



20 dB Emission Bandwidth: 4.269 kHz

Date: 30.DEC.2021 11:51:17

§15.229(d) - FREQUENCY TOLERANCE

Applicable Standard

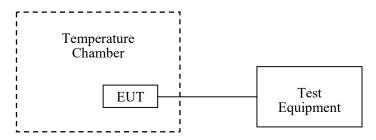
The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: For hand carried, battery powered equipment; reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.



Test Data

Environmental Conditions

| Temperature: | 25 °C | | |
|---------------------------|-----------|--|--|
| Relative Humidity: | 56 % | | |
| ATM Pressure: | 101.0 kPa | | |

Testing was performed by Chao Mo on 2021-12-31.

EUT operation mode: Transmitting

Test Result: Compliance. Please refer to following table

| f _o =40.68 MHz | | | | | |
|---------------------------|------------------------------------|--------------------------------|---------------------------|--------------|--|
| Temperature (°C) | Power Supplied | Measured Frequency (MHz) | Frequency Error (%) | Limit (%) | |
| -20 | New battery 4.5 V _{DC} | 40.682160 | 0.00531 | ±0.01 | |
| -10 | | 40.682269 | 0.00558 | ±0.01 | |
| 0 | | 40.682366 | 0.00582 | ±0.01 | |
| 10 | | 40.682339 | 0.00575 | ±0.01 | |
| 20 | | 40.682415 | 0.00594 | ±0.01 | |
| 30 | | 40.682490 | 0.00612 | ±0.01 | |
| 40 | | 40.682442 | 0.00600 | ±0.01 | |
| 50 | | 40.682653 | 0.00652 | ±0.01 | |
| 20 | 3.83 | 40.679845 | -0.00038 | ±0.01 | |
| 20 | 5.18 | 40.679981 | -0.00005 | ±0.01 | |

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