



RADIO TEST REPORT FCC ID: 2AX5VREXJ1

Product: Radio signal range extender Trade Mark: ハハン Model No.: RXJ0000NA Family Model: N/A Report No.: S23040701502001 Issue Date: May 08. 2023

Prepared for

AJAX SYSTEMS CYPRUS HOLDINGS LTD Ifigeneias, 17, Strovolos, 2007, Nicosia, Cyprus

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website:http://www.ntek.org.cn





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1 TEST RESULT CERTIFICATION

| Applicant's name | AJAX SYSTEMS CYPRUS HOLDINGS LTD |
|-----------------------------|---|
| Address | Ifigeneias, 17, Strovolos, 2007, Nicosia, Cyprus |
| Manufacturer's Name | "AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY |
| Address | Sklyarenka, 5, Kyiv, 04073, Ukraine |
| Factory's Name(1) | "AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY |
| Address | Sklyarenka, 5, Kyiv, 04073, Ukraine |
| Factory's Name(2) | "AJAX TURKEY ELEKTRONİK TİCARET" ANONİM ŞİRKETİ |
| Address | Aydınlı Sb Mah. 4.Sk. Desbaş 6 Blok No: 4 Ic Kapi No: Z01 Tuzla / Istanbul |
| Product description | |
| Product name | Radio signal range extender |
| Model and/or type reference | RXJ0000NA |
| Family Model | N/A |
| Test Sample Number | S230407015002 |

Measurement Procedure Used:

| APPLICABLE STANDARDS | | | | |
|--|-------------|--|--|--|
| STANDARD/ TEST PROCEDURE | TEST RESULT | | | |
| FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2013 | Complied | | | |

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

| Date of Test | :_ | Apr 07. 2023~ May 08. 2023 | |
|----------------------|----|----------------------------|--|
| Testing Engineer | :_ | (Gavan Zhang | |
| Authorized Signatory | :_ | (Alex Li) | |

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2 SUMMARY OF TEST RESULTS

| FCC Part15 (15.247), Subpart C | | | | | |
|--------------------------------|--------------------------------|---------|--------|--|--|
| Standard Section | Test Item | Verdict | Remark | | |
| 15.207 | Conducted Emission | PASS | | | |
| 15.209 (a) 15.205 (a) | Radiated Spurious Emission | PASS | | | |
| 15.247(a)(1) | Hopping Channel Separation | PASS | | | |
| 15.247(b)(2) | Peak Output Power | PASS | | | |
| 15.247(a)(i) | Number of Hopping Frequency | PASS | | | |
| 15.247(a)(i) | Dwell Time | PASS | | | |
| 15.247(a)(1) | Bandwidth | PASS | | | |
| 15.247 (d) | Band Edge Emission | PASS | | | |
| 15.247 (d) | Spurious RF Conducted Emission | PASS | | | |
| 15.203 | Antenna Requirement | PASS | | | |

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

| Site Description | |
|------------------|--|
| CNAS-Lab. | : The Certificate Registration Number is L5516. |
| IC-Registration | The Certificate Registration Number is 9270A. |
| - | CAB identifier:CN0074 |
| FCC- Accredited | Test Firm Registration Number: 463705. |
| | Designation Number: CN1184 |
| A2LA-Lab. | The Certificate Registration Number is 4298.01 |
| | This laboratory is accredited in accordance with the recognized |
| | International Standard ISO/IEC 17025:2005 General requirements for |
| | the competence of testing and calibration laboratories. |
| | This accreditation demonstrates technical competence for a defined |
| | scope and the operation of a laboratory quality management system |
| | (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009). |
| Name of Firm | : Shenzhen NTEK Testing Technology Co., Ltd. |
| Site Location | : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang |
| | Street, Bao'an District, Shenzhen 518126 P.R. China. |

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended 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 | Uncertainty |
|-----|-------------------------------------|-------------|
| 1 | Conducted Emission Test | ±2.80dB |
| 2 | RF power, conducted | ±0.16dB |
| 3 | Spurious emissions, conducted | ±0.21dB |
| 4 | All emissions, radiated(30MHz~1GHz) | ±2.64dB |
| 5 | All emissions, radiated(1GHz~6GHz) | ±2.40dB |
| 6 | All emissions, radiated(>6GHz) | ±2.52dB |
| 7 | Temperature | ±0.5°C |
| 8 | Humidity | ±2% |

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4 GENERAL DESCRIPTION OF EUT

| Product Feature and Specification | | | | | |
|-----------------------------------|--|--|--|--|--|
| Equipment | Radio signal range extender | | | | |
| Trade Mark | ХЛГХ | | | | |
| FCC ID | 2AX5VREXJ1 | | | | |
| Model No. | RXJ0000NA | | | | |
| Family Model | N/A | | | | |
| Model Difference | N/A | | | | |
| Operating Frequency | 905 MHz~926.5MHz | | | | |
| Modulation | GFSK | | | | |
| Number of Channels | 103 Channels | | | | |
| Antenna Type | Antenna1Type: Planar Inverted F- Antenna(ocw=120k) Antenna2Type: Planar Inverted L- Antenna(ocw=120k) | | | | |
| Antenna Gain | Antenna1:-5 dBi Antenna2:-6 dBi | | | | |
| Power supply | AC 110-240V, 50/60 Hz, 0.1A or DC 3.7V from battery | | | | |
| HW Version | HUB-07e [REX-07e-3P-66a-9XX]; HUB.001.PWB.001v7 | | | | |
| SW Version | 2.13.174 | | | | |
| FW Version | NA | | | | |

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.





Revision History

| Report No. | Version | Description | Issued Date | | |
|-----------------|---------|-------------------------|--------------|--|--|
| S23040701502001 | Rev.01 | Initial issue of report | May 08. 2023 | | |
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5 DESCRIPTION OF TEST MODES

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To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report. Carrier Frequency and Channel list:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|
| 1 | 905 | 36 | 912.65 | 71 | 919.65 |
| 2 | 905.85 | 37 | 912.85 | 72 | 919.85 |
| 3 | 906.05 | 38 | 913.05 | 73 | 920.05 |
| 4 | 906.25 | 39 | 913.25 | 74 | 920.25 |
| 5 | 906.45 | 40 | 913.45 | 75 | 920.45 |
| 6 | 906.65 | 41 | 913.65 | 76 | 920.65 |
| 7 | 906.85 | 42 | 913.85 | 77 | 920.85 |
| 8 | 907.05 | 43 | 914.05 | 78 | 921.05 |
| 9 | 907.25 | 44 | 914.25 | 79 | 921.25 |
| 10 | 907.45 | 45 | 914.45 | 80 | 921.45 |
| 11 | 907.65 | 46 | 914.65 | 81 | 921.65 |
| 12 | 907.85 | 47 | 914.85 | 82 | 921.85 |
| 13 | 908.05 | 48 | 915.05 | 83 | 922.05 |
| 14 | 908.25 | 49 | 915.25 | 84 | 922.25 |
| 15 | 908.45 | 50 | 915.45 | 85 | 922.45 |
| 16 | 908.65 | 51 | 915.65 | 86 | 922.65 |
| 17 | 908.85 | 52 | 915.85 | 87 | 922.85 |
| 18 | 909.05 | 53 | 916.05 | 88 | 923.05 |
| 19 | 909.25 | 54 | 916.25 | 89 | 923.25 |
| 20 | 909.45 | 55 | 916.45 | 90 | 923.45 |
| 21 | 909.65 | 56 | 916.65 | 91 | 923.65 |
| 22 | 909.85 | 57 | 916.85 | 92 | 923.85 |
| 23 | 910.05 | 58 | 917.05 | 93 | 924.05 |
| 24 | 910.25 | 59 | 917.25 | 94 | 924.25 |
| 25 | 910.45 | 60 | 917.45 | 95 | 924.45 |
| 26 | 910.65 | 61 | 917.65 | 96 | 924.65 |
| 27 | 910.85 | 62 | 917.85 | 97 | 924.85 |
| 28 | 911.05 | 63 | 918.05 | 98 | 925.05 |
| 29 | 911.25 | 64 | 918.25 | 99 | 925.25 |
| 30 | 911.45 | 65 | 918.45 | 100 | 925.45 |
| 31 | 911.65 | 66 | 918.65 | 101 | 925.65 |
| 32 | 911.85 | 67 | 918.85 | 102 | 925.85 |
| 33 | 912.05 | 68 | 919.05 | 103 | 926.50 |
| 34 | 912.25 | 69 | 919.25 | | |
| 35 | 912.45 | 70 | 919.45 | | |





The following summary table is showing all test modes to demonstrate in compliance with the standard.

For AC Conducted Emission

 Final Test Mode
 Description

 Mode 1
 normal link mode

Note: AC power line Conducted Emission was tested under maximum output power.

| For Radiated Test Cases | | | |
|-------------------------|------------------|--|--|
| Final Test Mode | Description | | |
| Mode 1 | normal link mode | | |
| Mode 2 | CH01(905MHz) | | |
| Mode 3 | CH52(915.85MHz) | | |
| Mode 4 | CH103(926.50MHz) | | |

Note: For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

| For Conducted Test Cases | | | |
|--------------------------|------------------|--|--|
| Final Test Mode | Description | | |
| Mode 2 | CH01(905MHz) | | |
| Mode 3 | CH52(915.85MHz) | | |
| Mode 4 | CH103(926.50MHz) | | |
| Mode 5 | Hopping mode | | |

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.





6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

| For Radiated Test Cases | |
|--|--|
| For Conducted Test Cases C-1 Measurement Instrument | |

Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





6.2 SUPPORT EQUIPMENT

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.

| Item | Equipment | Model/Type No. | Series No. | Note |
|------|-----------|----------------|------------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|------------|---------------|--------------|--------|
| C-1 | RF Cable | NO | NO | 0.1m |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

| Naulali | Sha Conducted | lest equipment | | | | | |
|---------|---|-----------------|-----------------|-------------------|------------------|---------------------|------------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibratio n period |
| 1 | Spectrum Analyzer | Aglient | E4440A | MY41000130 | 2023.03.27 | 2024.03.26 | 1 year |
| 2 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2022.06.16 | 2023.06.15 | 1 year |
| 3 | Spectrum Analyzer | R&S | FSV40 | 101417 | 2022.06.16 | 2023.06.15 | 1 year |
| 4 | Test Receiver | R&S | ESPI7 | 101318 | 2023.03.27 | 2024.03.26 | 1 year |
| 5 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2023.03.16 | 2024.03.15 | 1 year |
| 6 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200983705 | 2020.05.11 | 2023.05.10 | 3 year |
| 7 | Horn Antenna | SCHWARZBE CK | BBHA 9120 D | 2816 | 2023.01.12 | 2024.01.11 | 1 year |
| 8 | Broadband Horn Antenna | SCHWARZBE CK | BBHA 9170 | 803 | 2022.11.07 | 2023.11.06 | 1 year |
| 9 | Amplifier | EMC | EMC051835 SE | 980246 | 2022.06.17 | 2023.06.15 | 1 year |
| 10 | Active Loop Antenna | SCHWARZBE CK | FMZB 1519 B | 055 | 2022.06.17 | 2023.06.15 | 1 year |
| 11 | Power Meter | DARE | RPR3006W | 15I00041SN 084 | 2022.06.17 | 2023.06.15 | 1 year |
| 12 | Test Cable (9KHz-30MHz) | N/A | R-01 | N/A | 2022.06.17 | 2025.06.16 | 3 year |
| 13 | Test Cable (30MHz-1GHz) | N/A | R-02 | N/A | 2022.06.17 | 2025.06.16 | 3 year |
| 14 | High Test Cable(1G-40G Hz) | N/A | R-03 | N/A | 2022.06.17 | 2025.06.16 | 3 year |
| 15 | Filter | TRILTHIC | 2400MHz | 29 | 2022.06.17 | 2023.06.15 | 1 year |
| 16 | temporary antenna connector (Note) | NTS | R001 | N/A | N/A | N/A | N/A |

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list





AC Conduction Test equipment Kind of Calibrated Calibration Last Item Manufacturer Type No. Serial No. Equipment period calibration until 1 Test Receiver R&S ESCI 101160 2023.03.27 2024.03.26 1 year 2 LISN R&S ENV216 101313 2023.03.27 2024.03.26 1 year SCHWARZBE 3 LISN NNLK 8129 8129245 2023.03.27 2024.03.26 1 year CK 50Ω Coaxial ANRITSU 4 MP59B 6200983704 2020.05.11 2023.05.10 3 year Switch CORP Test Cable 5 (9KHz-30MH N/A C01 N/A 2020.05.11 2023.05.10 3 year z) Test Cable 6 (9KHz-30MH N/A C02 N/A 2020.05.11 2023.05.10 3 year Z) Test Cable 7 (9KHz-30MH N/A C03 N/A 2020.05.11 2023.05.10 3 year z)

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.





7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

| | Conducted Emission Limit | | |
|----------------|--------------------------|---------|--|
| Frequency(MHz) | Quasi-peak | Average | |
| 0.15-0.5 | 66-56* | 56-46* | |
| 0.5-5.0 | 56 | 46 | |
| 5.0-30.0 | 60 | 50 | |

Note: 1. *Decreases with the logarithm of the frequency

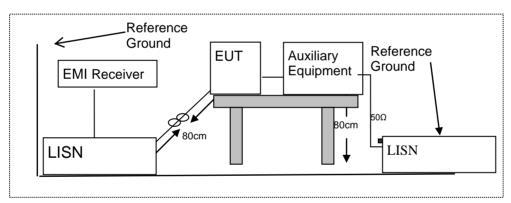
2. The lower limit shall apply at the transition frequencies

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

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.



7.1.6 Test Results

| | Model Name : | RXJ0000NA |
|-----------------------------|--------------------|-----------|
| Temperature: 26°C | Relative Humidity: | 54% |
| Pressure: 1010hPa | Phase : | L |
| Test Voltage : AC 120V/60Hz | Test Mode: | Mode 1 |

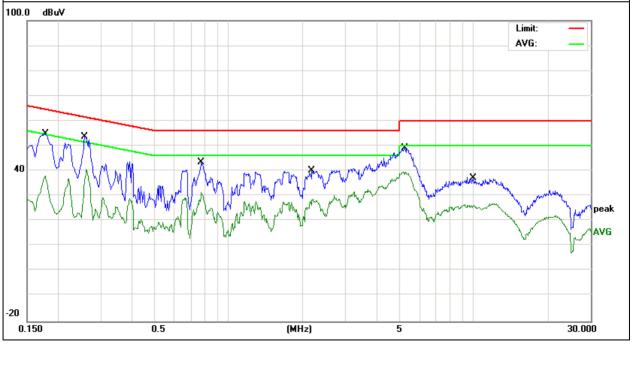
ACC Certificate #4298.01

been tested, and the worst result was report as below:

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|------------------|-------------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | |
| 0.1780 | 45.14 | 9.61 | 54.75 | 64.57 | -9.82 | QP |
| 0.1780 | 26.77 | 9.61 | 36.38 | 54.57 | -18.19 | AVG |
| 0.2580 | 44.15 | 9.63 | 53.78 | 61.49 | -7.71 | QP |
| 0.2580 | 26.72 | 9.63 | 36.35 | 51.49 | -15.14 | AVG |
| 0.7660 | 33.69 | 9.68 | 43.37 | 56.00 | -12.63 | QP |
| 0.7660 | 18.26 | 9.68 | 27.94 | 46.00 | -18.06 | AVG |
| 2.1860 | 30.36 | 9.69 | 40.05 | 56.00 | -15.95 | QP |
| 2.1860 | 18.61 | 9.69 | 28.30 | 46.00 | -17.70 | AVG |
| 5.2460 | 39.37 | 9.78 | 49.15 | 60.00 | -10.85 | QP |
| 5.2460 | 28.96 | 9.78 | 38.74 | 50.00 | -11.26 | AVG |
| 9.9340 | 27.30 | 9.93 | 37.23 | 60.00 | -22.77 | QP |
| 9.9340 | 16.17 | 9.93 | 26.10 | 50.00 | -23.90 | AVG |

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.







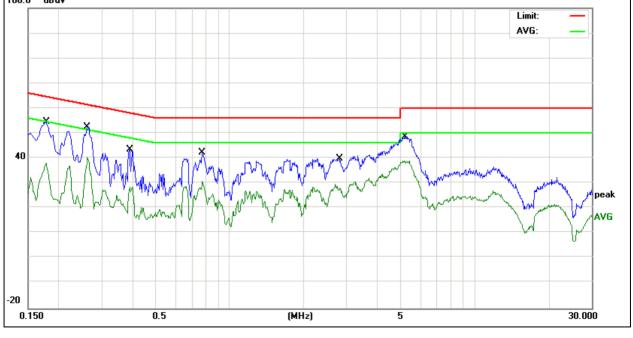
| EUT: | Radio signal range extender | Model Name : | RXJ0000NA | |
|--|-----------------------------|--------------------|-----------|--|
| Temperature: | 26 ℃ | Relative Humidity: | 54% | |
| Pressure: | 1010hPa | Phase : | Ν | |
| Test Voltage : | AC 120V/60Hz | Test Mode: | Mode 1 | |
| All the modulation modes have been tested, and the worst result was report as below: | | | | |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|------------------|-------------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | |
| 0.1780 | 44.99 | 9.64 | 54.63 | 64.57 | -9.94 | QP |
| 0.1780 | 27.64 | 9.64 | 37.28 | 54.57 | -17.29 | AVG |
| 0.2620 | 42.92 | 9.62 | 52.54 | 61.36 | -8.82 | QP |
| 0.2620 | 30.70 | 9.62 | 40.32 | 51.36 | -11.04 | AVG |
| 0.3899 | 33.71 | 9.66 | 43.37 | 58.06 | -14.69 | QP |
| 0.3899 | 18.21 | 9.66 | 27.87 | 48.06 | -20.19 | AVG |
| 0.7700 | 32.63 | 9.68 | 42.31 | 56.00 | -13.69 | QP |
| 0.7700 | 21.11 | 9.68 | 30.79 | 46.00 | -15.21 | AVG |
| 2.8020 | 30.29 | 9.69 | 39.98 | 56.00 | -16.02 | QP |
| 2.8020 | 17.67 | 9.69 | 27.36 | 46.00 | -18.64 | AVG |
| 5.1860 | 38.90 | 9.76 | 48.66 | 60.00 | -11.34 | QP |
| 5.1860 | 28.80 | 9.76 | 38.56 | 50.00 | -11.44 | AVG |

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

100.0 dBuV







7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

| Notes and the second se | | N 4L L | 211 |
|--|---------------------|---------------|-------------|
| MHz | MHz | MHz | GHz |
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) |
| 13.36-13.41 | | | |

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Restricted Frequency(MHz) | Field Strength (µV/m) | Field Strength (dBµV/m) | Measurement Distance |
|------------------------------|-----------------------|-------------------------|----------------------|
| 0.009~0.490 | 2400/F(KHz) | 20 log (uV/m) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 20 log (uV/m) | 30 |
| 1.705~30.0 | 30 | 29.5 | 30 |
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Limits of Radiated Emission Measurement(Above 1000MHz)

| Frequency(MHz) | Class B (dBuV | /m) (at 3M) |
|----------------|---------------|-------------|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Remark :1. Emission level in dBuV/m=20 log (uV/m)

Measurement was performed at an antenna to the closed point of EUT distance of meters.
 For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

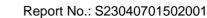
Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.





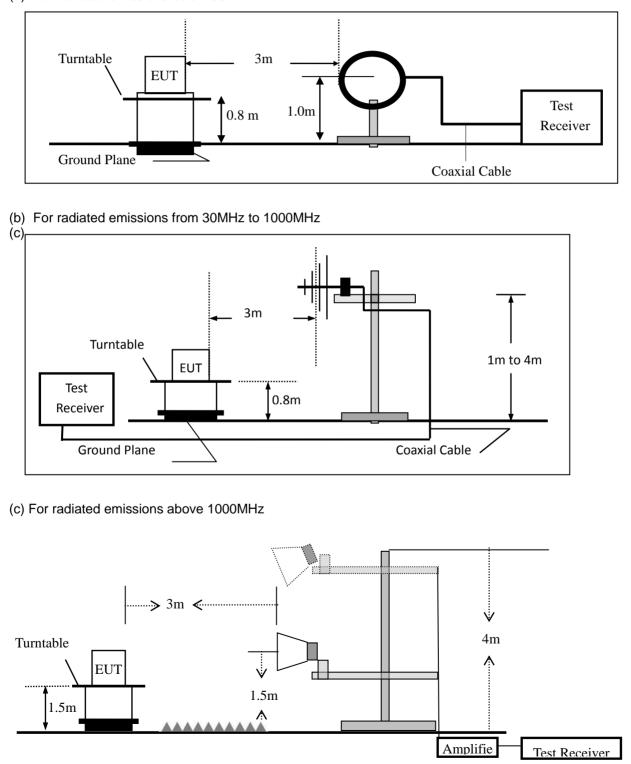
7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

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7.2.4 Test Configuration

(a) For radiated emissions below 30MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

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This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

| Spectrum Parameter | Setting |
|---------------------------------------|--|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.

- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:
 Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported





| During the radiated emission test, the Spectrum Analyzer was set with the following configurations: | | | | | | | | |
|---|----------|----------------------|-----------------|--|--|--|--|--|
| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth | | | | | |
| 30 to 1000 | QP | 120 kHz | 300 kHz | | | | | |
| Ab 200 | Peak | 1 MHz | 1 MHz | | | | | |
| Above 1000 | Average | 1 MHz | 10 Hz | | | | | |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.





7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

| | Radio signal range extender | Model No.: | RXJ0000NA |
|--------------|--------------------------------|--------------------|-------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Gavan Zhang |

| Freq. | Ant.Pol. | Emission L | .evel(dBuV/m) | Limit 3 | m(dBuV/m) | Over(dB) | | |
|-------|----------|------------|---------------|---------|-----------|----------|----|--|
| (MHz) | H/V | PK | AV | PK | AV | PK | AV | |
| | | | | | | | | |

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

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All the modulation modes have been tested, and the worst result was report as below:

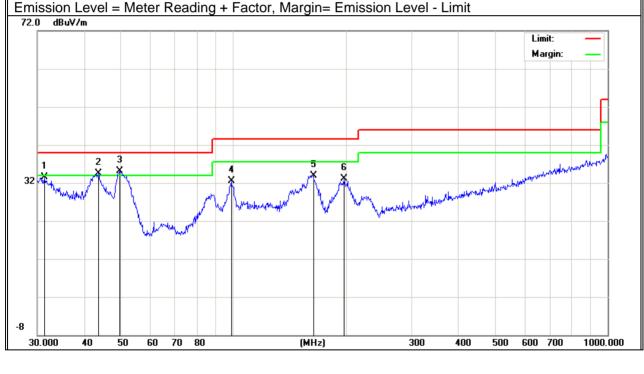
| EUT: | Radio signal range extender | Model Name : | RXJ0000NA |
|----------------|-----------------------------|--------------------|------------------|
| Temperature: | 23 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Test Mode: | Mode2- Antenna 2 |
| Test Voltage : | DC 3.7V | | |

All the modulation modes have been tested, and the worst result was report as below:

| Polar | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remark |
|-------|-----------|------------------|--------|-------------------|----------|--------|--------|
| (H/V) | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| V | 31.2893 | 7.71 | 25.76 | 33.47 | 40.00 | -6.53 | QP |
| V | 43.6584 | 15.61 | 18.92 | 34.53 | 40.00 | -5.47 | QP |
| V | 49.7068 | 19.57 | 15.44 | 35.01 | 40.00 | -4.99 | QP |
| V | 98.8326 | 15.00 | 17.59 | 32.59 | 43.50 | -10.91 | QP |
| V | 163.7550 | 16.15 | 17.84 | 33.99 | 43.50 | -9.51 | QP |
| V | 197.8928 | 16.70 | 16.39 | 33.09 | 43.50 | -10.41 | QP |

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit





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Report No.: S23040701502001

| Polar | Freq | uenc | у | | Mete eadi | | Fact | or | Emiss Lev | | L | imits | N | / argi | n | Remar |
|--------|--------------|-----------|-------------|--------|--------------|-------------|--------------------|------------|--------------|--|-----|-------------|-------|---------------|----------------|----------|
| (H/V) | (MHz) | | | (dBuV) | | (dB) (dBuV/ | | //m) | (dE | BuV/m) | | (dB) | | Remark | | |
| Н | 31. | 6202 | 2 | | 6.08 | 3 | 25.5 | 7 | 31.6 | 65 | 4 | 0.00 | | -8.35 | ; | QP |
| Н | 157 | .558 | 8 | | 9.65 | 5 | 18.2 | 0 | 27.8 | 35 | 4 | 3.50 | - | 15.6 | 5 | QP |
| Н | 226 | .893 | 6 | | 11.3 | 9 | 17.3 | 51 | 28.7 | 70 | 2 | 6.00 | - | ·17.3 | 0 | QP |
| Н | 327 | .887 | 3 | | 8.07 | 7 | 20.7 | 6 | 28.8 | 33 | 4 | 6.00 | - | 17.1 | 7 | QP |
| Н | 679 | .960 | 0 | | 7.54 | 4 | 27.6 | 51 | 35.1 | 15 | 4 | 6.00 | - | 10.8 | 5 | QP |
| Н | 900 | .1473 | 3 | | 8.11 | 1 | 30.7 | 9 | 38.9 | 90 | 2 | 6.00 | | -7.10 |) | QP |
| | | | | | | | | | | | | | | | nit: argin: | |
| 32 | Munumbelle . | | | | f | | | 2 | | 3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 4 | bring Noder | where | mblemont | 5 | 6 |
| 8 | | hundheite | tomorphiste | Mapyuk | britan a | J. Margar | nindornale Alberty | ··· • •••• | | | | | | | | |
| ✓ | 40 | 50 | 60 | 70 | 80 | | | (MHz) | | | 300 | 400 | 500 | 600 | 700 | 1000.000 |
| 30.000 | | | | | 00 | | | () | | | | | | 000 | 100 | 1000.000 |





| EUT: | I | Radio signa | al range ex | tender | Mo | odel No.: | RXJ0 | 000NA | |
|--|---------------|--------------|------------------------|------------------|-------------------|---------------|-------------|--------|------------|
| Femperature | e: 2 | 20° C | Relative Humidity: 48% | | | | | | |
| Test Mode: Mode2/Mode3/Mode4-Antenna2 Test By: | | | | | st By: | Gava | n Zhang | | |
| Il the modu | lation m | nodes have | been teste | ed, and the | e worst re | sult was repo | ort as belo | w: | |
| Frequency | Read Level | | Antenna Factor | Preamp Factor | Emission Level | Limits | Margin | Remark | Comment |
| (MHz) | (dBµV | ′) (dB) | dB/m | (dB) | (dBµV/m |) (dBµV/m) | (dB) | | |
| | | | Low Ch | annel (905 | MHz)(GFS | SK)Above 1G | | | |
| 1810 | 80.11 | 5.21 | 26.5 | 55.35 | 56.47 | 74.00 | -17.53 | Pk | Vertical |
| 1810 | 60.06 | 5.21 | 26.5 | 55.35 | 36.42 | 54.00 | -17.58 | AV | Vertical |
| 2715 | 75.53 | 6.48 | 28.49 | 55.11 | 55.39 | 74.00 | -18.61 | Pk | Vertical |
| 2715 | 63.38 | 6.48 | 28.49 | 55.11 | 43.24 | 54.00 | -10.76 | AV | Vertical |
| 1810 | 79.23 | 5.21 | 26.5 | 55.35 | 55.59 | 74.00 | -18.41 | Pk | Horizontal |
| 1810 | 61.16 | 5 5.21 | 26.5 | 55.35 | 37.52 | 54.00 | -16.48 | AV | Horizontal |
| 2715 | 77.76 | 6.48 | 28.49 | 55.11 | 57.62 | 74.00 | -16.38 | Pk | Horizontal |
| 2715 | 58.31 | 6.48 | 28.49 | 55.11 | 38.17 | 54.00 | -15.83 | AV | Horizontal |
| Mid Channel (915.85 MHz)(GFSK)Above 1G | | | | | | | | | |
| 1831.7 | 79.12 | 2 5.21 | 26.5 | 55.35 | 55.48 | 74.00 | -18.52 | Pk | Vertical |
| 1831.7 | 59.15 | 5.21 | 26.5 | 55.35 | 35.51 | 54.00 | -18.49 | AV | Vertical |
| 2747.55 | 73.90 | 7.10 | 28.49 | 55.11 | 54.38 | 74.00 | -19.62 | Pk | Vertical |
| 2747.55 | 62.11 | 7.10 | 28.49 | 55.11 | 42.59 | 54.00 | -11.41 | AV | Vertical |
| 1829.5 | 78.90 | 5.21 | 26.5 | 55.35 | 55.26 | 74.00 | -18.74 | Pk | Horizontal |
| 1829.5 | 60.46 | 5.21 | 26.5 | 55.35 | 36.82 | 54.00 | -17.18 | AV | Horizontal |
| 2744.25 | 76.71 | 7.10 | 28.49 | 55.11 | 57.19 | 74.00 | -16.81 | Pk | Horizontal |
| 2744.25 | 57.07 | 7.10 | 28.49 | 55.11 | 37.55 | 54.00 | -16.45 | AV | Horizontal |
| | | | High Cha | nnel (926.5 | MHz)(GF | SK) Above 1 | G | | |
| 1855.5 | 78.90 | 5.21 | 26.5 | 55.35 | 55.26 | 74.00 | -18.74 | Pk | Vertical |
| 1855.5 | 59.11 | 5.21 | 26.5 | 55.35 | 35.47 | 54.00 | -18.53 | AV | Vertical |
| 2783.25 | 73.98 | 3 7.10 | 28.49 | 55.11 | 54.46 | 74.00 | -19.54 | Pk | Vertical |
| 2783.25 | 62.39 | 7.10 | 28.49 | 55.11 | 42.87 | 54.00 | -11.13 | AV | Vertical |
| 1855.5 | 78.48 | 5.21 | 35.52 | 55.35 | 63.86 | 74.00 | -10.14 | Pk | Horizontal |
| 1855.5 | 60.30 | 5.21 | 35.52 | 55.35 | 45.68 | 54.00 | -8.32 | AV | Horizontal |
| 2783.25 | 76.91 | 7.10 | 36.53 | 55.11 | 65.43 | 74.00 | -8.57 | Pk | Horizontal |
| 2783.25 | 56.91 | 7.10 | 36.53 | 55.11 | 45.43 | 54.00 | -8.57 | AV | Horizontal |



1804.6



-11.80

AV

Horizontal

54

| E | JT: | | Radio sigi | nal range o | extender | Model No. | Model No.: RXJ0000NA | | | | |
|--|-------------|------------------|-----------------|---------------------------|------------------|-------------------|----------------------|------------|--------|----------|------------|
| Γe | emperature: | | 20 ℃ | Relative 48% Humidity: | | | | | | | |
| Fest Mode: Mode2/ Mode4-Antenna2 T | | | | Test By: | G | iava | n Zhang | | | | |
| All the modulation modes have been tested, and the | | | | | e worst res | ult was | repo | ort as bel | ow: | | |
| | Frequency | Readino Level |) Cable Loss | Antenna Factor | Preamp Factor | Emission Level | Limit | s | Margin | Detector | Comment |
| | (MHz) | (dBµV) | (dB) | dB/m | (dB) | (dBµV/m) | (dBµV/ | ′m) | (dB) | Туре | |
| | 1240 | 58.50 | 4.04 | 29.57 | 44.70 | 47.41 | 74 | | -26.59 | Pk | Vertical |
| | 1240 | 54.26 | 4.04 | 29.57 | 44.70 | 43.17 | 54 | | -10.83 | AV | Vertical |
| | 1240 | 60.60 | 4.04 | 29.57 | 44.70 | 49.51 | 74 | | -24.49 | Pk | Horizontal |
| | 1240 | 55.25 | 4.04 | 29.57 | 44.70 | 44.16 | 54 | | -9.84 | AV | Horizontal |
| | 1804.6 | 63.57 | 4.26 | 29.87 | 44.40 | 53.30 | 74 | | -20.70 | Pk | Vertical |
| | 1804.6 | 52.61 | 4.26 | 29.87 | 44.40 | 42.34 | 54 | | -11.66 | AV | Vertical |
| | | | | | | | | | | | |
| | 1804.6 | 62.11 | 4.26 | 29.87 | 44.40 | 51.84 | 74 | | -22.16 | Pk | Horizontal |

42.20

Note: (1) All other emissions more than 20dB below the limit.

29.87

44.40

4.26

52.47





7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (i)and ANSI C63.10-2013

7.3.2 Conformance Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = the frequency band of operation RBW : To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold





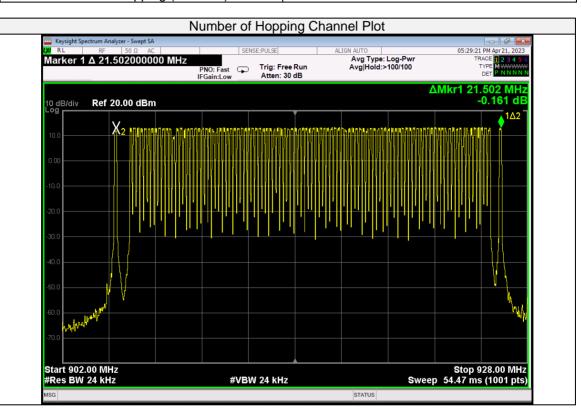
103

7.3.6 Test Results

| EUT: | Radio signal range extender | Model No.: | RXJ0000NA |
|--------------|-----------------------------|--------------------|-------------|
| Temperature: | 20° ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode 5(1Mbps) | Test By: | Gavan Zhang |

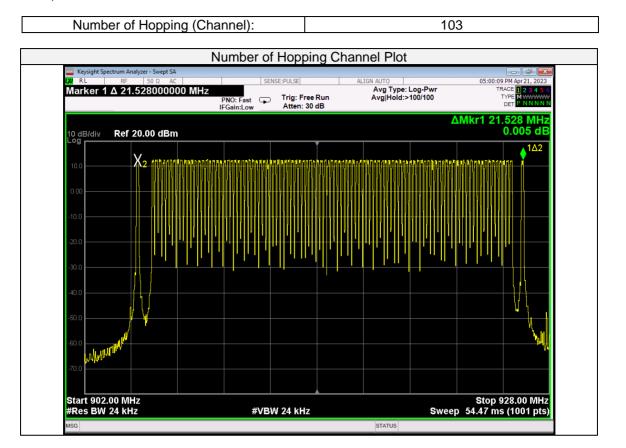
(Module 1)OCW=120K- Antenna1

Number of Hopping (Channel):



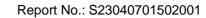


(Module 1)OCW=120K-Antenna2



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7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a) (1) and ANSI C63.10-2013

7.4.2 Conformance Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Certificate #4298.01

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Measurement Bandwidth or Channel Separation RBW: Start with the RBW set to approximately 3% of the channel spacing; adjust as necessary to best identify the center of each individual channel. VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold





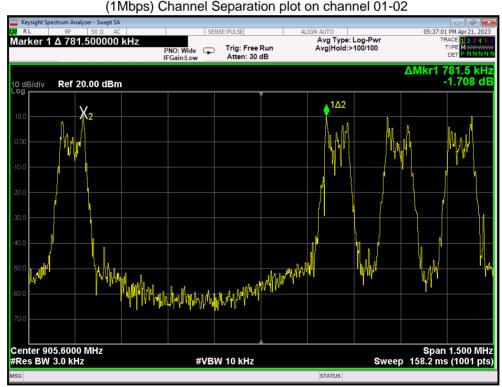
7.4.6 **Test Results**

| EUT: | Radio signal range extender | Model No.: | RXJ0000NA |
|--------------|-----------------------------|--------------------|-------------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Gavan Zhang |

(Module 1) OCW=120k-Antenna1

| Modulation Mode | Channel Number | Channel Frequency (MHz) | Measured Channel Separation (kHz) | | _imit kHz) | Verdict |
|--------------------|-------------------|-------------------------------|--|--------|---------------|---------|
| | 01-02 | 905.00 | 781.50 | >99.98 | 20dB BW | PASS |
| GFSK | 52-53 | 915.85 | 200.00 | >98.14 | 20dB BW | PASS |
| | 102-103 | 926.50 | 579.00 | >87.74 | 20dB BW | PASS |

Test Plot



(1Mbps) Channel Separation plot on channel 01-02



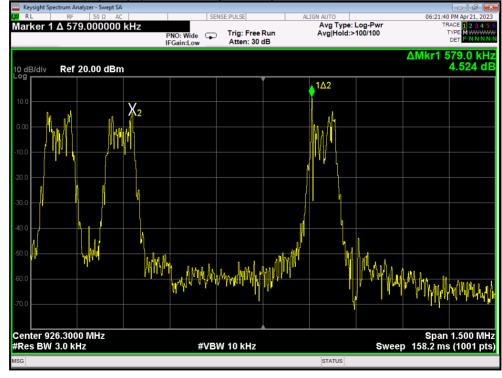


(1Mbps) Channel Separation plot on channel 52-53

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AC-MR

(1Mbps) Channel Separation plot on channel 102-103







| EUT: | Radio signal range extender | Model No.: | RXJ0000NA |
|--------------|-----------------------------|--------------------|-------------|
| Temperature: | 20°C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Gavan Zhang |
| | | | |

(Module 1) OCW=120k-Antenna2

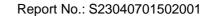
| Modulation Mode | Channel Number | Channel Frequency (MHz) | Measured Channel Separation (kHz) | | ∟imit kHz) | Verdict |
|--------------------|-------------------|-------------------------------|--|--------|---------------|---------|
| | 01-02 | 905.00 | 781.5 | >84.25 | 20dB BW | PASS |
| GFSK | 52-53 | 915.85 | 202.0 | >87.83 | 20dB BW | PASS |
| | 102-103 | 926.50 | 586.5 | >98.29 | 20dB BW | PASS |

Test Plot



(1Mbps) Channel Separation plot on channel 01-02



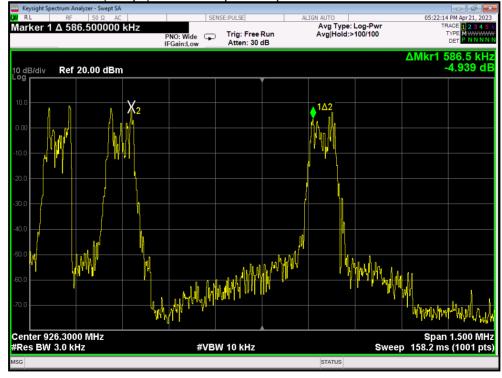




(1Mbps) Channel Separation plot on channel 52-53

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(1Mbps) Channel Separation plot on channel 102-103







7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(i)) and ANSI C63.10-2013

7.5.2 Conformance Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel RBW< 200kHz VBW \geq RBW Sweep = as necessary to capture the entire dwell time per hopping channel Detector function = peak Trace = max hold Measure the maximum time duration of one single pulse. Set the EUT packet transmitting. Measure the maximum time duration of one single pulse.





7.5.6 Test Results

| | Radio signal range extender | Model No.: | RXJ0000NA |
|--------------|--------------------------------|--------------------|-------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Gavan Zhang |

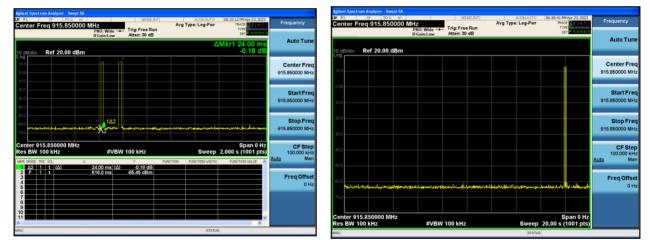
(Module 1) OCW=120k-Antenna1

| Center Frequency (MHz) | Transmit Time per Hop (ms) | The Number of Hop Within a limited time (N) | Dwell Time (s) | Limits (s) | Result |
|-------------------------------|----------------------------------|--|-------------------|---------------|--------|
| 915.85 | 24 | 2 | 0.048 | 0.4 | Pass |

Note:

- 1. Ton1=24ms
- 2. Sweep time=20s;
- 3. Dwell Time(s) = Transmit Timeper Hopx N= Ton1*2=24*2=48ms

Test Plot





(Module 1) OCW=120k-Antenna2

| Center Frequency (MHz) | Transmit Time per Hop (ms) | The Number of Hop Within a limited time (N) | Dwell Time (s) | Limits (s) | Result |
|-------------------------------|----------------------------------|--|-------------------|---------------|--------|
| 915.85 | 30 | 2 | 0.060 | 0.4 | Pass |

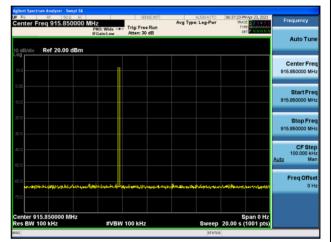
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Note:

- 1. Ton1=30ms
- 2. Sweep time=20s;
- 3. Dwell Time(s) = Transmit Timeper Hopx N= Ton1*2=30*2=60ms

| Marker | 123456 | TYPE | ALIGNAUTO E: Log-Pwr | Avg Ty | INSE:INT | | | AC MS | 0.0000 | RF | ker 1 |
|--------------|--------------------|---------------------------------------|-------------------------|----------------|--------------|-----------------|------------------------|----------------------------------|--------------|---------|----------|
| Select Marke | PNNNN | DET | | | | Atten: 30 | NO: Wide 🔸 Gain:Low | | | | |
| |).00 ms).99 dB | Mkr1 30 -0 | Δ | | | | | dBm | f 20.00 | Re | B/div |
| | | | | | | | n | п | | | |
| Norm | | | | | | | | | | | <u> </u> |
| | | | | | | | | | | | |
| Del | | | | | | | | | | | |
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| | an O Ha | | | | | | | | 0000 54 | 46.06 | L. |
| c | 001 pts) | Span 0 Hz Sweep 2.000 s (1001 pts) | | | #VBW 100 kHz | | | ter 915.850000 MHz BW 100 kHz | | | |
| | N VALUE | FUNCTION | CTION WIDTH | CTION F | | Y -0.99 |).00 ms (Δ) | × | | rrc scl | |
| | | | | | | -65.24 d | 18.0 ms | | | | F |
| Properties | - | | | | | | | | | | |
| | | | | | | | | | | | |
| Mo 1 o | | | | | | | | | | | |
| 10 | × . | | | | | | | | | | |
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Test Plot





7.5.7 Pseudorandom Frequency Hopping Sequence

Each frequency used equally on the average by each transmitter. The channel order is determined by the Channel mapping Table, system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals

Pseudo-random sequence Table

NTEK 北测

| Ohanal | Frequency | | Frequency | | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| Channel | (MHz) | Channel | (MHz) | Channel | (MHz) |
| 1 | 905 | 36 | 912.65 | 71 | 919.65 |
| 55 | 916.45 | 37 | 912.85 | 81 | 921.65 |
| 56 | 916.65 | 38 | 913.05 | 77 | 920.85 |
| 46 | 914.65 | 2 | 905.85 | 74 | 920.25 |
| 47 | 914.85 | 51 | 915.65 | 26 | 910.65 |
| 24 | 910.25 | 9 | 907.25 | 27 | 910.85 |
| 25 | 910.45 | 10 | 907.45 | 72 | 919.85 |
| 75 | 920.45 | 54 | 916.25 | 73 | 920.05 |
| 76 | 920.65 | 22 | 909.85 | 78 | 921.05 |
| 28 | 911.05 | 23 | 910.05 | 82 | 921.85 |
| 29 | 911.25 | 7 | 906.85 | 79 | 921.25 |
| 52 | 915.85 | 8 | 907.05 | 84 | 922.25 |
| 53 | 916.05 | 48 | 915.05 | 83 | 922.05 |
| 57 | 916.85 | 49 | 915.25 | 80 | 921.45 |
| 58 | 917.05 | 50 | 915.45 | 85 | 922.45 |
| 59 | 917.25 | 18 | 909.05 | 3 | 906.05 |
| 60 | 917.45 | 19 | 909.25 | 4 | 906.25 |
| 61 | 917.65 | 20 | 909.45 | 5 | 906.45 |
| 62 | 917.85 | 21 | 909.65 | 11 | 907.65 |
| 63 | 918.05 | 31 | 911.65 | 12 | 907.85 |
| 64 | 918.25 | 32 | 911.85 | 13 | 908.05 |
| 65 | 918.45 | 33 | 912.05 | 6 | 906.65 |
| 69 | 919.25 | 66 | 918.65 | 39 | 913.25 |
| 70 | 919.45 | 67 | 918.85 | 40 | 913.45 |
| 30 | 911.45 | 68 | 919.05 | 41 | 913.65 |
| 34 | 912.25 | 90 | 923.45 | 97 | 924.85 |
| 35 | 912.45 | 91 | 923.65 | 98 | 925.05 |
| 86 | 922.65 | 92 | 923.85 | 15 | 908.45 |
| 87 | 922.85 | 100 | 925.45 | 42 | 913.85 |
| 88 | 923.05 | 95 | 924.45 | 14 | 908.25 |
| 89 | 923.25 | 102 | 925.85 | 99 | 925.25 |
| 16 | 908.65 | 43 | 914.05 | 94 | 924.25 |
| 17 | 908.85 | 44 | 914.25 | 96 | 924.65 |
| 93 | 924.05 | 45 | 914.45 | | |
| 101 | 925.65 | 103 | 926.5 | | |





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7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.6.2 Conformance Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW \geq 1% of the 20 dB bandwidth VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold





7.6.6 Test Results

| EUT: | Radio signal range extender | Model No.: | RXJ0000NA |
|--------------|-----------------------------|--------------------|-------------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Gavan Zhang |

(Module 1)OCW=120K-Antenna1

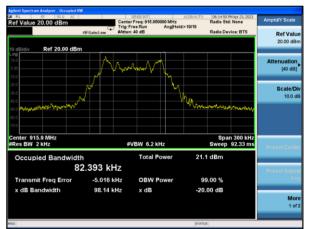
| Test Channel | Frequency | Measured Bandwidth (KHz) | Limit | Verdict |
|--------------|-----------|-----------------------------|-------|---------|
| | (MHz) | | (kHz) | |
| 1 | 905.00 | 99.98 | 250 | PASS |
| 52 | 915.85 | 98.14 | 250 | PASS |
| 103 | 926.50 | 87.74 | 250 | PASS |

Test Plot

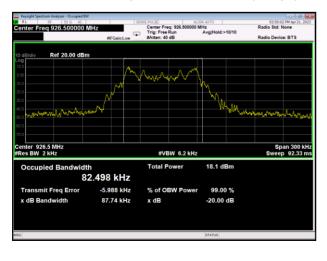
20dB Bandwidth plot on channel 01 (1Mbps)



20dB Bandwidth plot on channel 52 (1Mbps)









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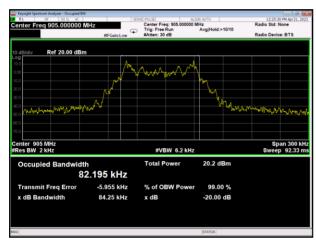
(Module 1)OCW=120k-Antenna2

| Test Channel | Frequency | Measured Bandwidth (KHz) | Limit | Verdict |
|--------------|-----------|-----------------------------|-------|---------|
| | (MHz) | | (kHz) | |
| 1 | 905.00 | 84.25 | 250 | PASS |
| 52 | 915.85 | 87.83 | 250 | PASS |
| 103 | 926.50 | 98.29 | 250 | PASS |

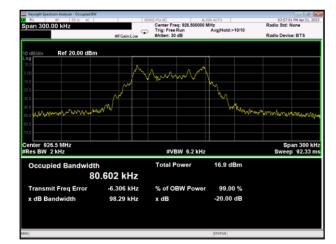
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Test Plot

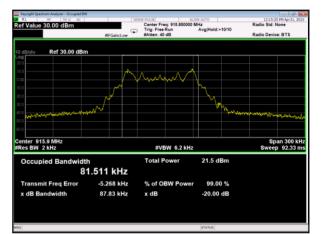
20dB Bandwidth plot on channel 01 (1Mbps)



20dB Bandwidth plot on channel 103 (1Mbps)



20dB Bandwidth plot on channel 52 (1Mbps)







7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2013

7.7.2 Conformance Limit

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

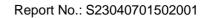
RBW \geq the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak Trace = max hold





7.7.6 Test Results

| EUT: | Radio signal range extender | Model No.: | RXJ0000NA |
|--------------|-----------------------------|--------------------|-------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Gavan Zhang |

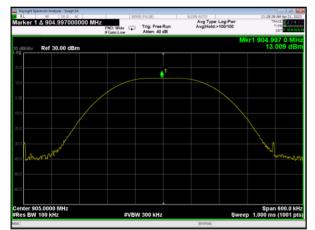
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(Module 1)OCW=120K-Antenna1

| Test Channel | Frequency | Power Setting | Peak Output Power | LIMIT | Verdict |
|-----------------|-----------|------------------|-------------------------|-------|---------|
| | (MHz) | | (dBm) | (dBm) | |
| | | 1 M b | ps | | |
| 1 | 905.00 | Default | 13.009 | 30 | PASS |
| 52 | 915.85 | Default | 15.950 | 30 | PASS |
| 103 | 926.50 | Default | 12.908 | 30 | PASS |

Test Plot

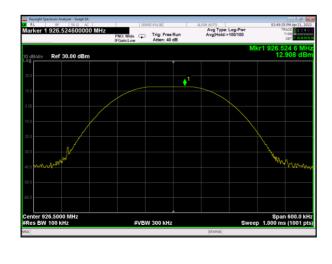
Peak output Power plot on channel 01 (1Mbps)



Peak output Power plot on channel 52 (1Mbps)



Peak output Power plot on channel 103 (1Mbps)



Version.1.2





(Module 1)OCW=120k-Antenna2

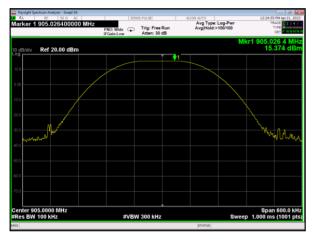
| Test Channel | Frequency | Power Setting | Peak Output Power | LIMIT | Verdict | | |
|-----------------|-----------|------------------|-------------------------|-------|---------|--|--|
| | (MHz) | | (dBm) | (dBm) | | | |
| | 1Mbps | | | | | | |
| 1 | 905.00 | Default | 15.374 | 30 | PASS | | |
| 52 | 915.85 | Default | 15.527 | 30 | PASS | | |
| 103 | 926.50 | Default | 11.382 | 30 | PASS | | |

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Test Plot

Peak output Power plot on channel 01 (1Mbps)

Peak output Power plot on channel 52 (1Mbps)



 Open System Advances lend to the set of the

Peak output Power plot on channel 103 (1Mbps)







7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013

7.8.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.





7.8.6 Test Results

| EUT: | Radio signal range extender | Model No.: | RXJ0000NA |
|--------------|-----------------------------|--------------------|-------------|
| Temperature: | 20 °C | Relative Humidity: | 48% |
| Test Mode: | Mode2 /Mode4/ Mode5 | Test By: | Gavan Zhang |

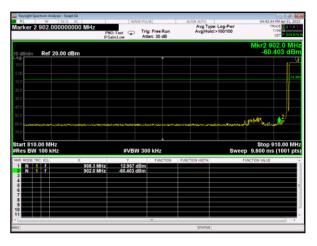
(Module1)OCW=120K-Antenna1

Test Plot

GFSK: Band Edge-Low Channel

GFSK: Band Edge-Low Channel (Hopping Mode)

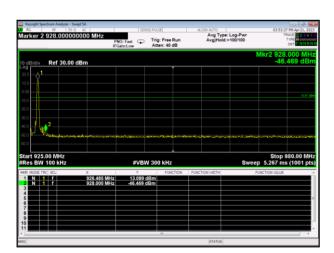
GFSK: Band Edge-High Channel

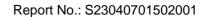


GFSK: Band Edge-High Channel

(Hopping Mode)

Wyodd Spectrum Andrew - Sweet SA Called Public ALLIN AUTO - Sweet SA Cell Auto - Sweet SA Marker 2 928,000000000 MHz PRO First IF Grain Low Tig First Rep Tig First Rep Atten: 30 dB ALLIN AUTO - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Start Sa Control Cell Auto - Sweet Rep Public - Sweet Rep Sa Control Cell Auto - Sweet Rep Public - Sweet Rep Sa Control Cell Auto - Sweet Rep Public - Sweet Rep Sa Control Cell Auto - Sweet Rep Public - Sweet Rep Sa Control Cell Auto - Sweet Rep Public - Sweet Rep Sa Control Cell Auto - Sweet Rep Public - Sweet Rep Sa Control Cell Auto - Sweet Rep Sa Control Cell Auto - Sweet Rep Sa Control Cell Auto - Sweet Rep Sa Control Cell Auto - Sweet Rep Sa Control Cell Auto - Sweet Rep Sa Control Cell Auto - Sweet Rep Sa Control Cell Auto - Sweet Rep Sa Control Cell Auto - Sweet Rep Sa Cont

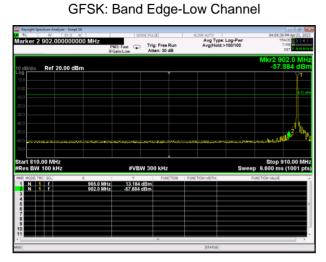




(Module1)OCW=120K-Antenna2

Test Plot

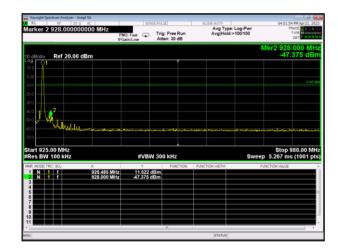
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GFSK: Band Edge-Low Channel (Hopping Mode)

GFSK: Band Edge-High Channel (Hopping Mode)



| RL RF 50 Ω AC | SENSE: | PULSE | ALIGN AUTO | | 04:49:14 PM Apr 21, 202 |
|---------------------------------------|-------------------------------|--|--|----------------------------------|---|
| rker 2 928.000000000 MHz | PNO: Fast | Trig: Free Run Atten: 30 dB | Avg Type Avg Hold: | Log-Pwr >100/100 | TRACE 234 TYPE MUMOUNT DET PNNN |
| dB/div Ref 20.00 dBm | | | | м | kr2 928.000 MH -55.324 dBr |
| | | | | | |
| | | | | | -7.71 d |
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| urt 925.00 MHz es BW 100 kHz | #VBW | 300 kHz | | Sweep | Stop 980.00 MH 5.267 ms (1001 pt |
| MODE TRC SCL X | Y | FUNCTION | FUNCTION WIDTH | FUE | CTION VALUE |
| N 1 f 925.055 Mi N 1 f 928.000 Mi | Hz 12.288 dB Hz -55.324 dB | m m | | | |
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| | | | | | |
| | | | | | |
| | | | | | |

GFSK: Band Edge-High Channel





7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013.

7.9.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.9.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

7.9.6 Test Results

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

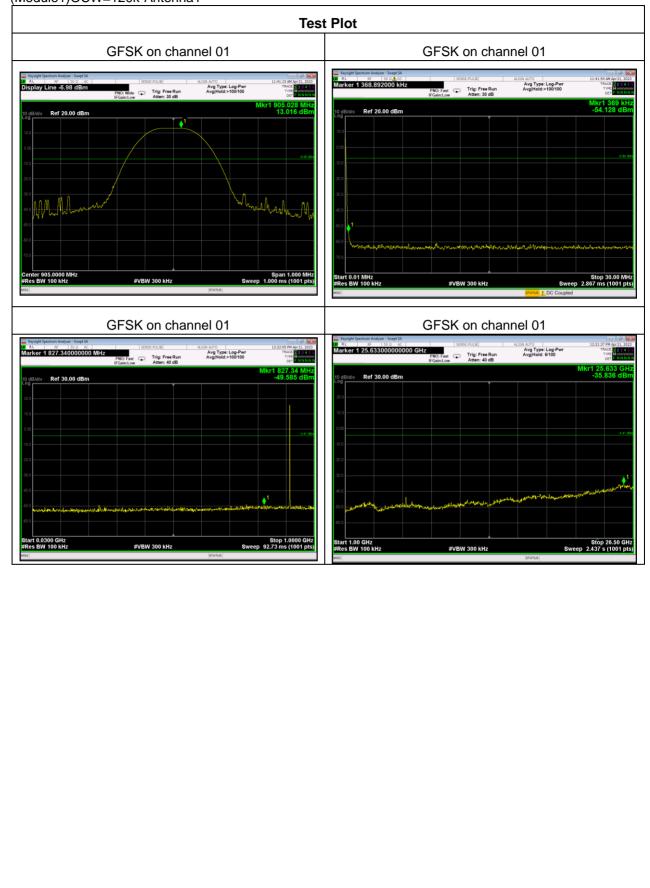


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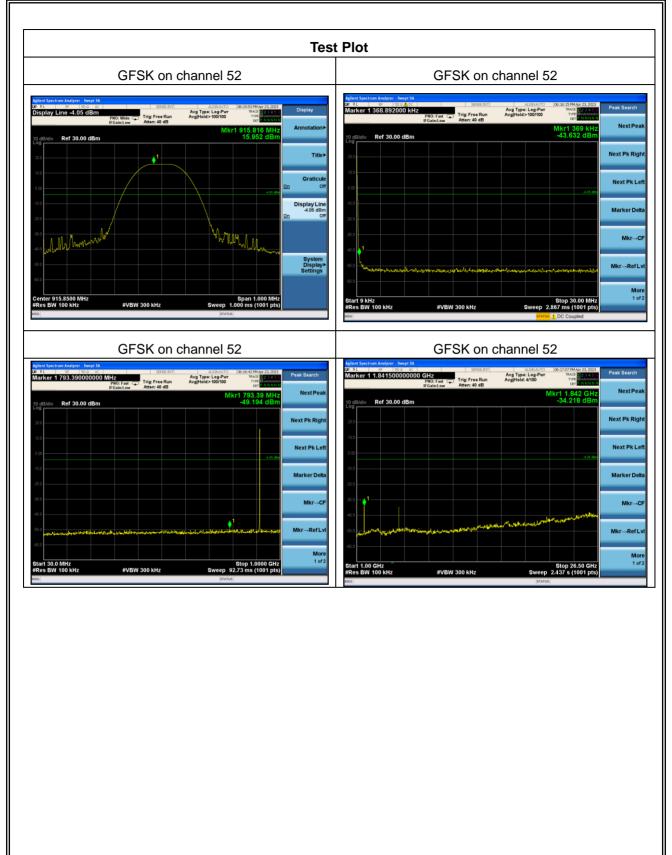


(Module1)OCW=120k-Antenna1





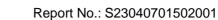


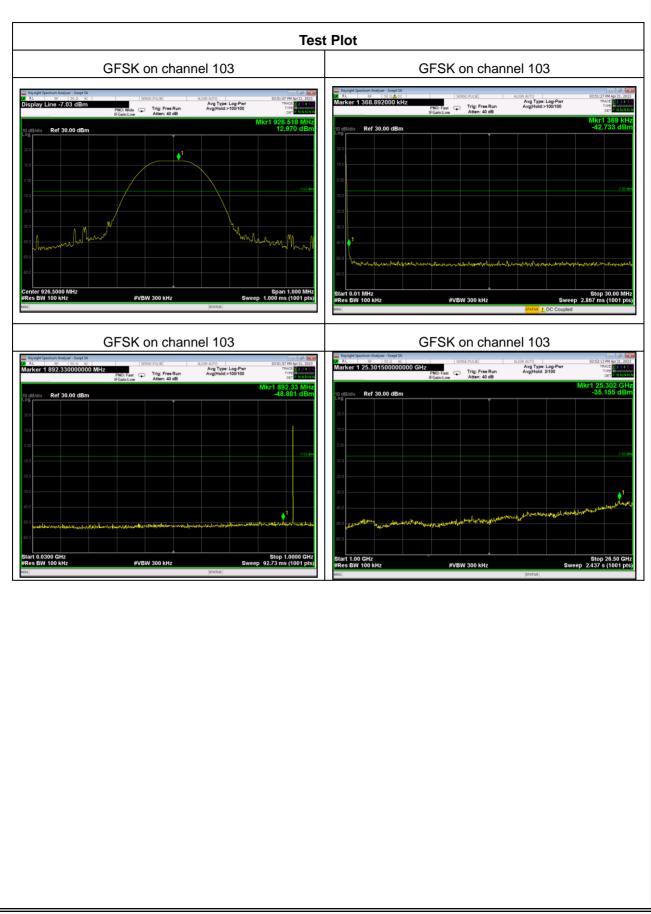




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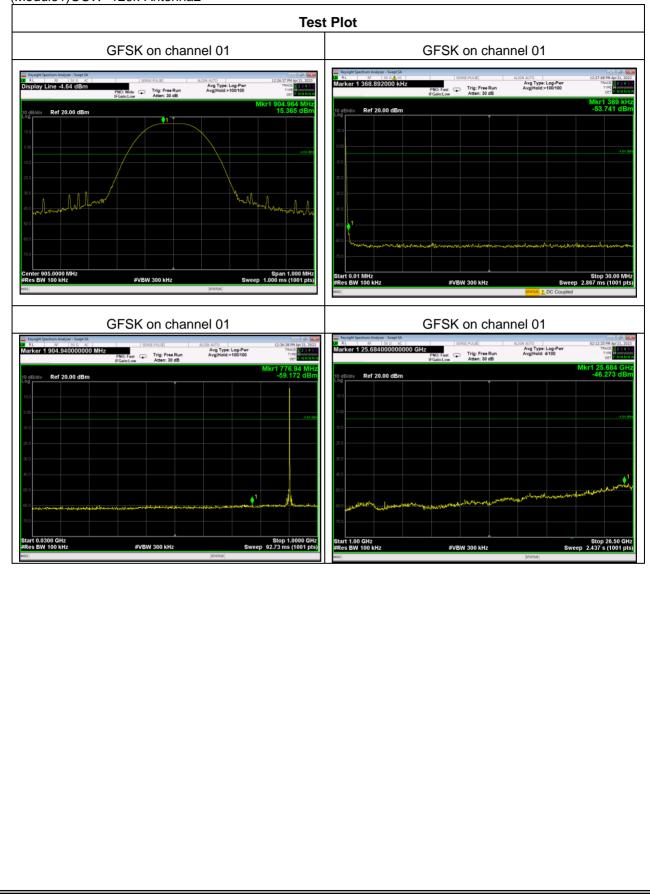


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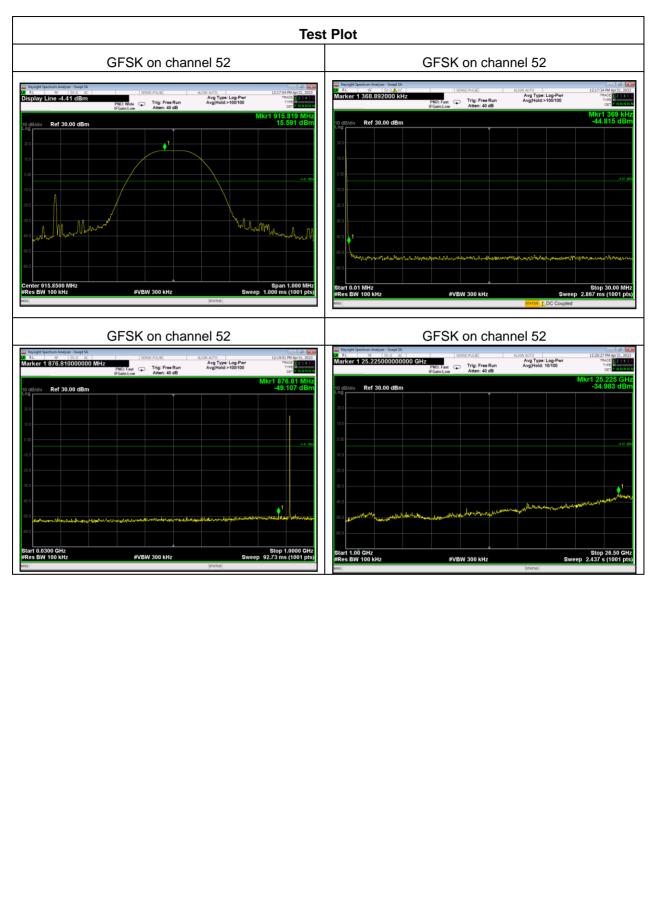


(Module1)OCW=120k-Antenna2



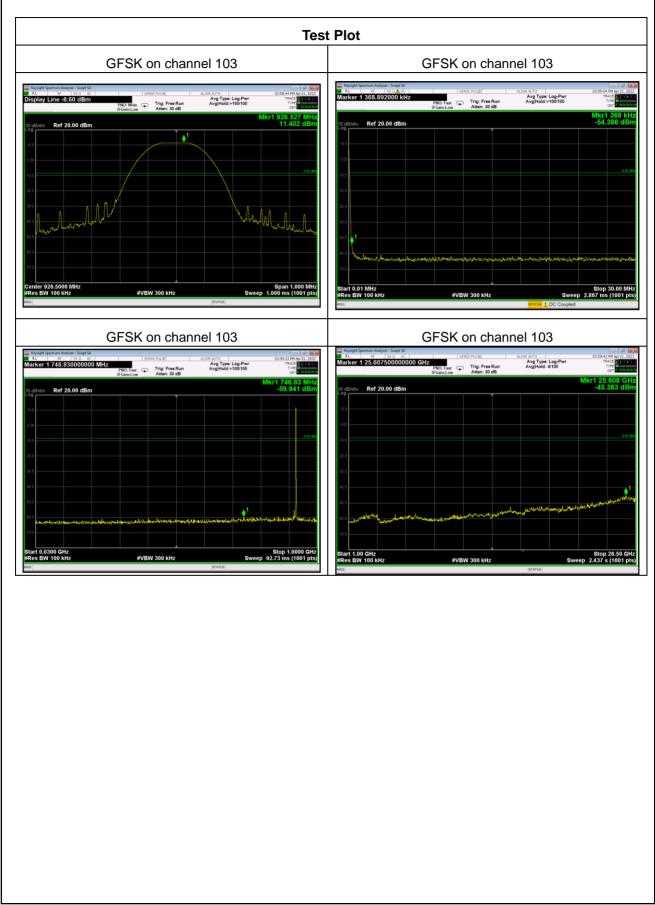
















7.10 ANTENNA APPLICATION

7.10.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device.

7.10.2 Result

The EUT has four antenna connector and use only the Antenna1Type: Planar Inverted F- Antenna(Gain:-5dB). Antenna2Type: Planar Inverted L- Antenna (Gain:-6dBi). It comply with the standard of 15.203 requirement.

END OF REPORT