

Report No.: KSCR221000201301

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TEST REPORT

Application No.: KSCR2210002013AT

FCC ID: WBKRU4370
Applicant: BTI Wireless

Address of Applicant: 14600 Industry Circle La Mirada, CA 90638

Manufacturer: BTI Wireless

Address of Manufacturer: 14600 Industry Circle La Mirada, CA 90638

Factory: Sunwave Communications Co., Ltd

Address of Factory: 581 Huoju Avenue, Binjiang District Hangzhou China

Equipment Under Test (EUT):

EUT Name: Remote Radio Unit

Model No.: RU4370

Trade mark:

BTIWIRELESS

Standard(s): 47 CFR Part 2

47 CFR Part 96

Date of Receipt: 2022-10-25

Date of Test: 2022-10-25 to 2022-11-02

Date of Issue: 2022-11-02

Test Result: Pass

Eric Lin EMC Laboratory Manager

Jose fin



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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| | Revision Record | | | | | | | | | |
|---------|-----------------|------------|----------|--------|--|--|--|--|--|--|
| Version | Chapter | Date | Modifier | Remark | | | | | | |
| 00 | Original | 2022-11-02 | | / | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|-------------------------------|--|
| | Damon zhou | |
| | Damon Zhou / Project Engineer | |
| | Eni fri | |
| | Eric Lin / Reviewer | |



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2 Test Summary

| Test Item | FCC Rule No. | Verdict |
|--|--------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §96.41 | PASS |
| Peak-Average Ratio | §96.41 | PASS |
| Modulation Characteristics | §2.1047 | PASS |
| Bandwidth | §96.41 | PASS |
| Band Edge Compliance | §2.1051, §96.41 | PASS |
| Spurious emissions at antenna terminals | §2.1051, §96.41 | PASS |
| Field strength of spurious radiation | §2.1051, §96.41 | PASS |
| Frequency stability | §2.1055, | PASS |

Remark:

This report is based on the original report (KSCR2205000769). The product opens band N78 (3550MHz-3700MHz) through the software side on the original basis, and the hardware remains unchanged. So we evaluated and tested all the modes of power,PSD and radiation spurious, and the rest of the test items were tested based on the maximum power.

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.



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4 General Information

4.1 Details of E.U.T.

| Product Name: | Remote Radio Unit |
|--------------------|---|
| Model No.: | RU4370 |
| Antenna Type: | External Antenna |
| Antenna Gain: | Max Antenna Gain 15.0 dBi(Provided by manufacturer) |
| Power Supply: | 48V DC, ±20% |
| Test Voltage | DC 48V |
| Sample Type: | Fixed device |
| CBSD Class: | Category B CBSD (Base Station) |
| Frequency Band: | N78 |
| Support Bandwidth: | 100MHz |
| Type of Modulation | 5G NR: CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM |
| Frequency Band: | 5G NR N78 |
| Frequency Range: | 3550MHz-3700MHz |
| Antenna Delivery: | 4T4R MIMO |

4.2 Test Frequency

| 50 ND D 1 70 | 202 | Bandwidth | Channel | | | |
|----------------------------------|-------|-----------|---------|---------|---------|--|
| 5G NR Band n78 (3550-3700MHz) | SCS | (MHz) | Low | Middle | High | |
| (5555 5700101112) | 30kHz | 100 | 3600 | 3625.02 | 3649.98 | |



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4.3 Test Support Unit

| Description | Description Manufacture | | S/N | |
|-------------|-------------------------|-----|------------|--|
| Notebook | ThinkPad | K27 | EB24537645 | |

4.4 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4 x 10 ⁻⁸ |
| 2 | Timeout | 2s |
| 3 | Duty Cycle | 0.37% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF Conducted Power | 0.6dB |
| 6 | RF Power Density | 2.9dB |
| 7 | Conducted Spurious Emissions | 0.75dB |
| 8 | RF Radiated Power | 5.2dB (Below 1GHz) |
| 0 | KF Radiated Power | 5.9dB (Above 1GHz) |
| | | 4.2dB (Below 30MHz) |
| 9 | Dadiated Courieus Emission Test | 4.5dB (30MHz-1GHz) |
| 9 | Radiated Spurious Emission Test | 5.1dB (1GHz-18GHz) |
| | | 5.4dB (Above 18GHz) |
| 10 | Temperature Test | 1°C |
| 11 | Humidity Test | 3% |
| 12 | Supply Voltages | 1.5% |
| 13 | Time | 3% |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

| Item | Equipment | Manufacturer | Model | Serial Number | Cal Date | Cal. Due Date |
|------|--------------------------------------|---------------|--------------|---------------|------------|---------------|
| | Conducted Test | | | | | |
| 1 | Spectrum Analyzer | Keysight | N9020A | MY55370209 | 08/22/2022 | 08/21/2023 |
| 2 | Signal Generator | Agilent | N5182A | MY50142015 | 08/22/2022 | 08/21/2023 |
| 3 | Spectrum Analyzer | Keysight | N9030B | MY61330164 | 01/22/2022 | 01/21/2023 |
| 4 | Vector Signal Generator | R&S | SMW200A | 110074 | 08/22/2022 | 08/21/2023 |
| 5 | Radio Communication Test Station | Anritsu | MT8000A | 6262012849 | 08/22/2022 | 08/21/2023 |
| 6 | Radio Communication Analyzer | Anritsu | MT8821C | 6201692222 | 04/01/2022 | 03/31/2023 |
| 7 | Universal Radio Communication Tester | R&S | CMW500 | 159275 | 08/22/2022 | 08/21/2023 |
| 8 | Universal Radio Communication Tester | R&S | CMW500 | 167239 | 04/01/2022 | 03/31/2023 |
| 9 | Power Meter | Anritsu | ML2495A | 1445010 | 04/15/2022 | 04/14/2023 |
| 10 | Switcher | CCSRF | FY562 | KUS2001M001-3 | 08/22/2022 | 08/21/2023 |
| 11 | AC Power Source | EXTECH | 6605 | 1570106 | N.C.R | N.C.R |
| 12 | DC Power Supply | Aglient | E3632A | MY50340053 | N.C.R | N.C.R |
| 13 | 6dB Attenuator | Mini-Circuits | NAT-6-2W | 15542-1 | N.C.R | N.C.R |
| 14 | Power Divider | AISI | IOWOPE2068 | PE2068 | N.C.R | N.C.R |
| 15 | Filter | MICRO-TRONICS | BRM50701 | 5 | N.C.R | N.C.R |
| 16 | Conducted Test Cable | / | RF01-RF04 | / | 04/15/2022 | 04/14/2023 |
| 17 | Software | BST | TST-PASS | N/A | N/A | N/A |
| 18 | Temp. / Humidity Chamber | TERCHY | MHK-120AK | X30109 | 04/15/2022 | 04/14/2023 |
| 19 | Thermometer | Anymetre | RS-WS-N01-6J | 1032844 | 04/15/2022 | 04/14/2023 |
| RF R | adiated Test | 1 | | | | |
| 1 | Spectrum Analyzer | R&S | FSV40 | 101493 | 08/22/2022 | 08/21/2023 |
| 2 | Signal Generator | Agilent | E8257C | MY43321570 | 08/22/2022 | 08/21/2023 |
| 3 | Loop Antenna | Com-Power | AL-130R | 10160008 | 04/13/2021 | 04/12/2023 |
| 4 | Bilog Antenna | TESEQ | CBL 6112D | 35403 | 06/21/2021 | 06/20/2023 |
| 5 | Bilog Antenna | SCHWARZBECK | VULB9160 | 9160-3342 | 04/13/2021 | 04/12/2023 |
| 6 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | 267 | 04/02/2022 | 04/01/2024 |
| 7 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | 00143290 | 02/22/2021 | 02/21/2023 |
| 8 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | BBHA9170171 | 02/20/2022 | 02/19/2023 |
| 9 | Pre-Amplifier(30MHz~18GHz) | LNA | / | / | 04/15/2022 | 04/14/2023 |
| 10 | Amplifier(18~40GHz) | COM-POWER | PAM-840A | 461332 | 01/22/2022 | 01/21/2023 |
| 11 | Low Pass Filter | MICRO-TRONICS | VLFX-950 | RV142900829 | N.C.R | N.C.R |
| 12 | High Pass Filter | Mini-Circuits | VHF-1200 | 15542 | N.C.R | N.C.R |
| 13 | Filter (5450MHz~5770 MHz) | MICRO-TRONICS | BRC50704-01 | 2 | N.C.R | N.C.R |
| 14 | Filter (5690 MHz~5930 MHz) | MICRO-TRONICS | BRC50705-01 | 4 | N.C.R | N.C.R |
| 15 | Filter (5150 MHz~5350 MHz) | MICRO-TRONICS | BRC50703-01 | 2 | N.C.R | N.C.R |
| 16 | Filter (885 MHz~915 MHz) | MICRO-TRONICS | BRM14698 | 1 | N.C.R | N.C.R |
| 17 | Filter (815 MHz~860 MHz) | MICRO-TRONICS | BRM14697 | 1 | N.C.R | N.C.R |
| 18 | Filter (1745 MHz~1910 MHz) | MICRO-TRONICS | BRM14700 | 1 | N.C.R | N.C.R |
| 19 | Filter (1922 MHz~1977 MHz) | MICRO-TRONICS | BRM50715 | 1 | N.C.R | N.C.R |
| | , | | | | | |
| 20 | Filter (2550 MHz) | MICRO-TRONICS | HPM13362 | 5 | N.C.R | N.C.R |



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| 21 | Filter (1532 MHz~1845 MHz) | MICRO-TRONICS | BRM50713 | 1 | N.C.R | N.C.R |
|----|----------------------------|---------------|-----------|-----|------------|------------|
| 22 | Filter (2.4GHz) | MICRO-TRONICS | BRM50701 | 5 | N.C.R | N.C.R |
| 23 | RE test cable | / | RE01-RE04 | / | 04/15/2022 | 04/14/2023 |
| 24 | Software | Faratronic | EZ_EMC | N/A | N/A | N/A |



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03
Limit: EIRP≤ 47dBm/10MHz, PSD≤ 37dBm/MHz

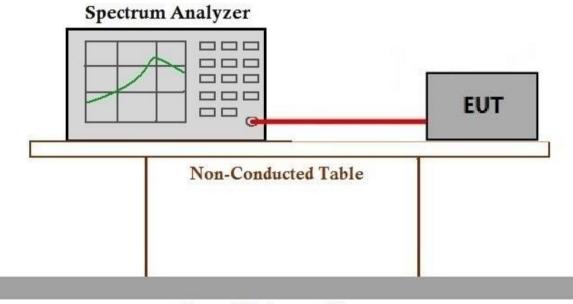
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



Ground Reference Plane

6.1.3 Measurement Data



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| | 1 Carriers _ SCS 30kHz | | | | | | | | | |
|---------------|------------------------|------------|---------------|------------|-----------------------------|---------------------------------|----------------------|---------------|---------------------|---------------------------|
| BW Arrange | Frequency | Modulation | RB Allocation | | 4x4 MIMO Conducted Power | | A = 4 | | | |
| | | | Size | Off set | Total Power (dBm) | Channel Power (dBm/10MHz) | Ant Gain (dBi) | EIRP (dBm) | EIRP (dBm/10MHz) | EIRP Limit (dBm/10MHz) |
| | | QPSK | Full | 0 | 40.41 | 30.71 | 15.00 | 55.41 | 45.71 | 47.00 |
| | LCH | 16QAM | Full | 0 | 40.10 | 30.54 | 15.00 | 55.10 | 45.54 | 47.00 |
| | | 64QAM | Full | 0 | 39.96 | 30.01 | 15.00 | 54.96 | 45.01 | 47.00 |
| | | 256QAM | Full | 0 | 40.12 | 30.23 | 15.00 | 55.12 | 45.23 | 47.00 |
| | МСН | QPSK | Full | 0 | 40.16 | 30.45 | 15.00 | 55.16 | 45.45 | 47.00 |
| 100 | | 16QAM | Full | 0 | 39.88 | 30.08 | 15.00 | 54.88 | 45.08 | 47.00 |
| 100 | | 64QAM | Full | 0 | 39.96 | 30.55 | 15.00 | 54.96 | 45.55 | 47.00 |
| | | 256QAM | Full | 0 | 40.12 | 30.89 | 15.00 | 55.12 | 45.89 | 47.00 |
| | | QPSK | Full | 0 | 40.42 | 30.54 | 15.00 | 55.42 | 45.54 | 47.00 |
| | HCH | 16QAM | Full | 0 | 40.38 | 30.64 | 15.00 | 55.38 | 45.64 | 47.00 |
| | поп | 64QAM | Full | 0 | 40.29 | 30.36 | 15.00 | 55.29 | 45.36 | 47.00 |
| | | 256QAM | Full | 0 | 40.33 | 30.14 | 15.00 | 55.33 | 45.14 | 47.00 |

| | | | 1 (| Carriers _ SCS 3 | 0kHz | | | |
|----------------------|------------|--------|---------------|------------------|---------------------------|----------------------|--------------------------|---------------------------|
| BW Arrange Frequency | | | RB Allocation | | Total PSD (dBm/MHz) | Ant Gain (dBi) | EIRP PSD (dBm/MHz) | PSD Limit (dBm/MHz) |
| | Modulation | Size | Off set | | | | | |
| | | QPSK | Full | 0 | 21.615 | 15.00 | 36.615 | 37.00 |
| | LCH | 16QAM | Full | 0 | 21.494 | 15.00 | 36.494 | 37.00 |
| | LCH | 64QAM | Full | 0 | 21.268 | 15.00 | 36.268 | 37.00 |
| | | 256QAM | Full | 0 | 21.039 | 15.00 | 36.039 | 37.00 |
| | | QPSK | Full | 0 | 21.345 | 15.00 | 36.345 | 37.00 |
| 100 | MCH | 16QAM | Full | 0 | 21.269 | 15.00 | 36.269 | 37.00 |
| 100 | IVICH | 64QAM | Full | 0 | 21.436 | 15.00 | 36.436 | 37.00 |
| | | 256QAM | Full | 0 | 21.256 | 15.00 | 36.256 | 37.00 |
| | | QPSK | Full | 0 | 21.322 | 15.00 | 36.322 | 37.00 |
| | HCH | 16QAM | Full | 0 | 21.378 | 15.00 | 36.378 | 37.00 |
| | псп | 64QAM | Full | 0 | 21.280 | 15.00 | 36.280 | 37.00 |
| | | 256QAM | Full | 0 | 21.582 | 15.00 | 36.582 | 37.00 |



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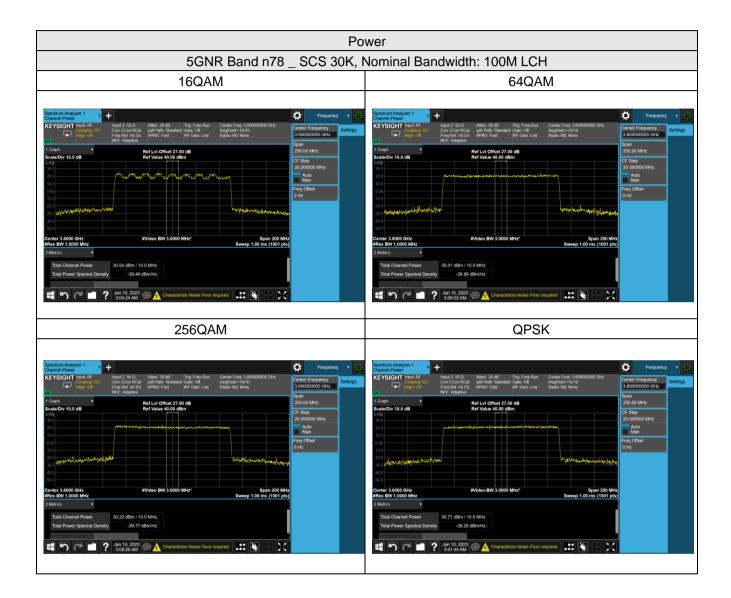
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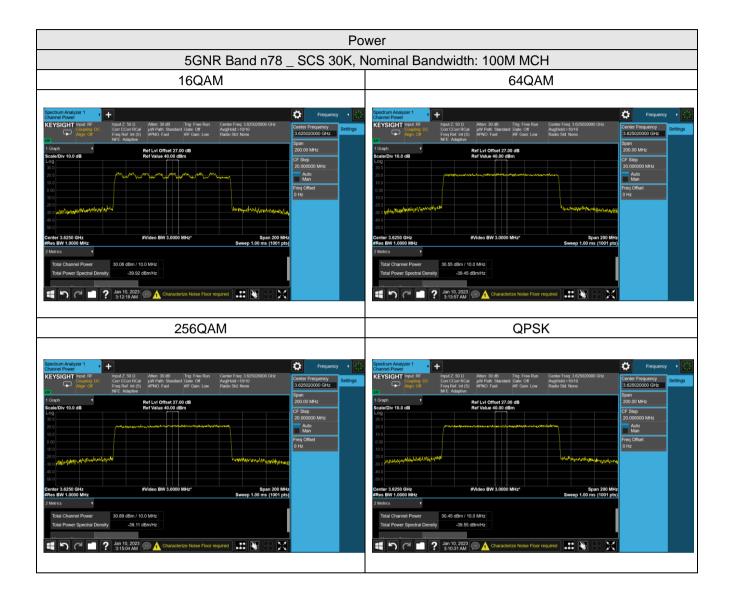
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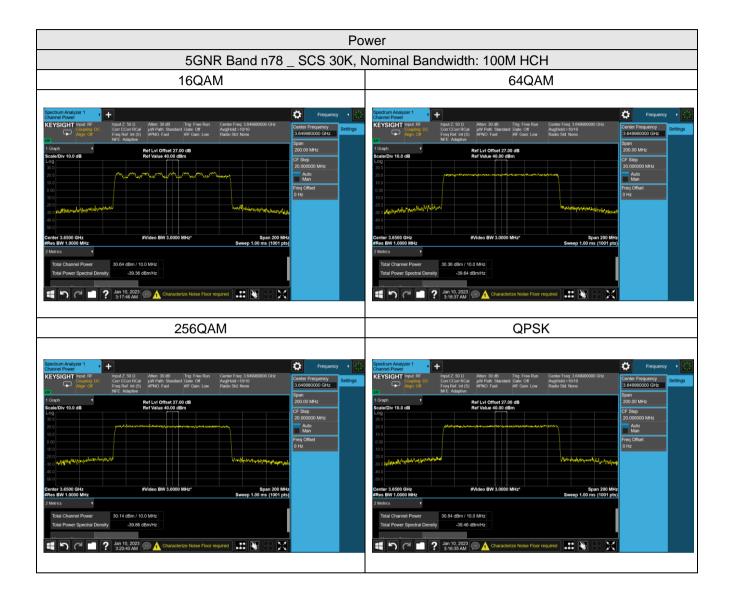
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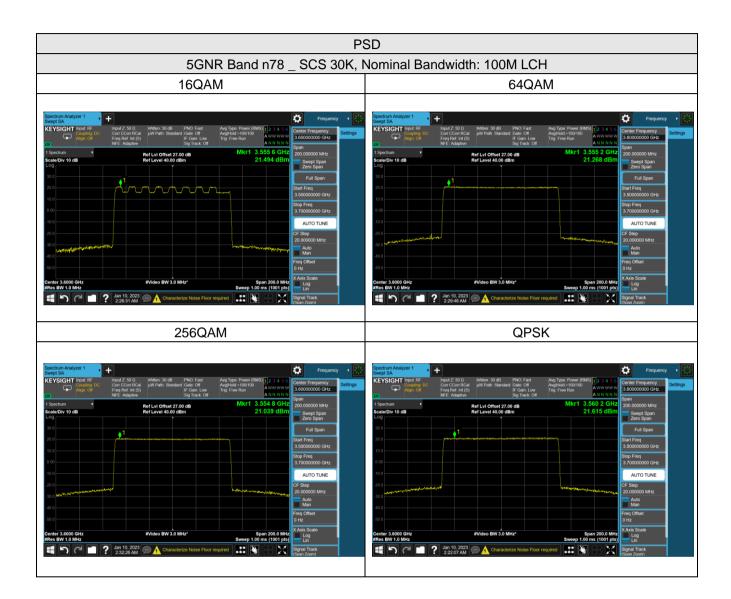
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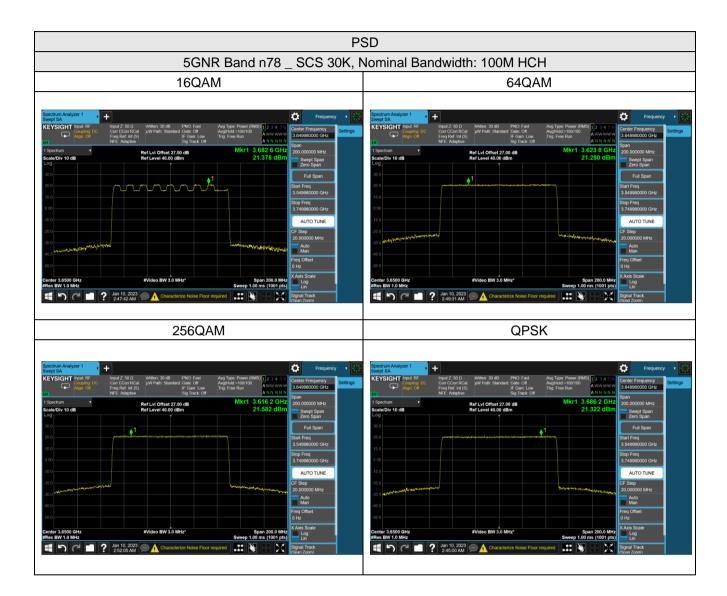
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6.2 Peak-Average Ratio

Test Requirement: §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: ≤13dB

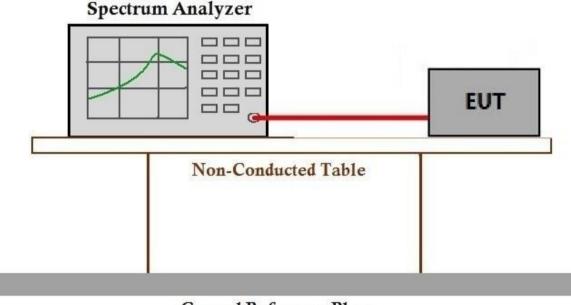
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



Ground Reference Plane

6.2.3 Measurement Data



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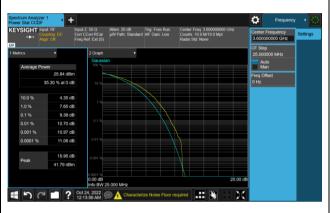
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| 5GNR Band n78 _ SCS 30K, Nominal Bandwidth: 100M | | | | | | | |
|--|---------|------------------|--------|-------------|-------|---------|--|
| Modulation | Channel | RB Configuration | | Test result | Limit | Verdict | |
| Modulation | Chamei | Size | Offset | (dB) | (dB) | verdict | |
| | LCH | Full | 0 | 9.38 | 13 | Pass | |
| QPSK | MCH | Full | 0 | 9.40 | 13 | Pass | |
| | HCH | Full | 0 | 9.47 | 13 | Pass | |

5GNR Band n78 _ SCS 30K, Nominal Bandwidth: 100M

QPSK Low channel

QPSK Middle channel





QPSK High channel





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6.3 Bandwidth

Test Requirement: §2.1049(h)

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: OBW: No limit

EBW: No limit

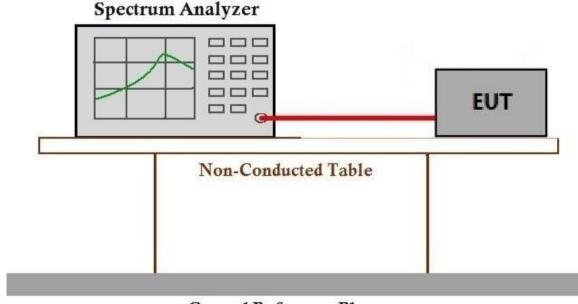
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data



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| 5GNR Band n78 _ SCS 30K | | | | | | | |
|-------------------------|-------------------|---------|--------|---------|----------------|---------|--|
| | Test result (MHz) | | | | | | |
| Nominal Bandwidth | | 99% OBW | | | 26dB bandwidth | | |
| | LCH MCH HCH | | | LCH | MCH | HCH | |
| 100 | 97.447 | 97.531 | 97.419 | 100.500 | 100.600 | 100.500 | |





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6.4 Band Edge Compliance

Test Requirement: §2.1051, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Except as otherwise specified in paragraph (e)(2) of this section, for channel

and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the

combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall

not exceed -40dBm/MHz.

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.



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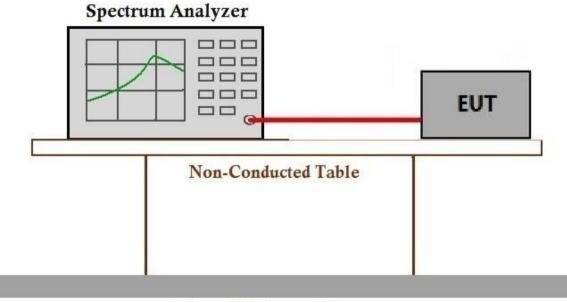
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6.4.2 Test Setup Diagram



Ground Reference Plane

6.4.3 Measurement Data



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| BW Arrange SCS (kHz | | Frequency | Modulation | RB Allocation | | Test Result |
|---------------------|------|-----------------|------------|---------------|-------------|-------------|
| DVV Arrange | Size |) Trequency | Size | Offset | rest Result | |
| Single Carrier | | | | | | |
| 100M | 30 | LCH / MCH / HCH | QPSK | Full | 0 | Pass |





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6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Except as otherwise specified in paragraph (e)(2) of this section, for channel

and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the

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Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall

not exceed -40dBm/MHz.

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.



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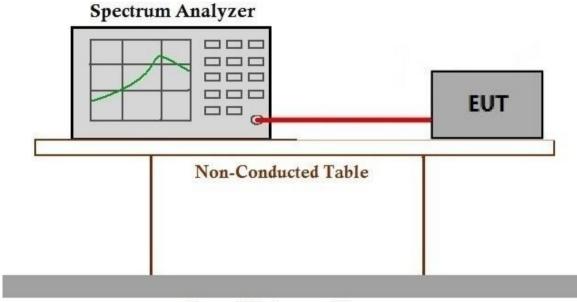
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6.5.2 Test Setup Diagram



Ground Reference Plane

6.5.3 Measurement Data



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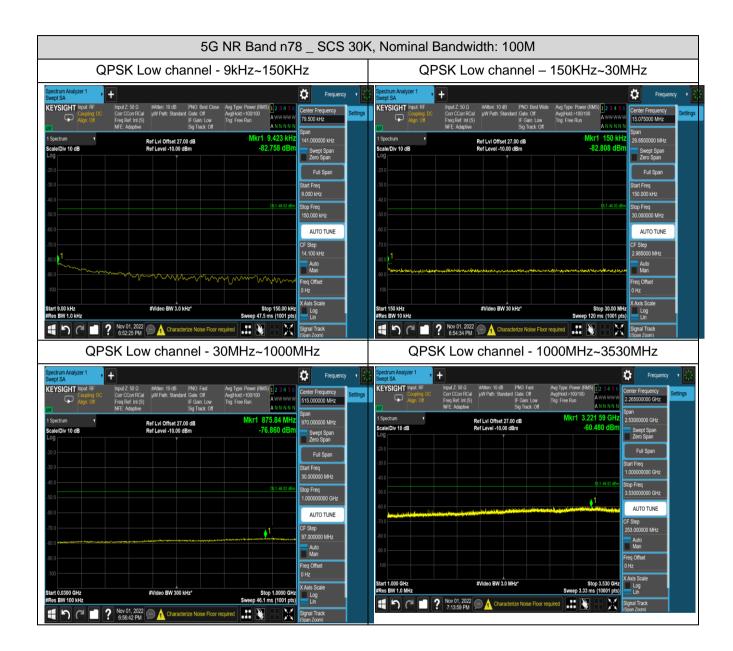
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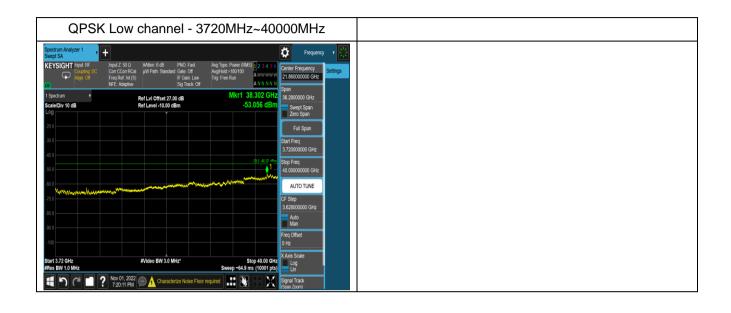
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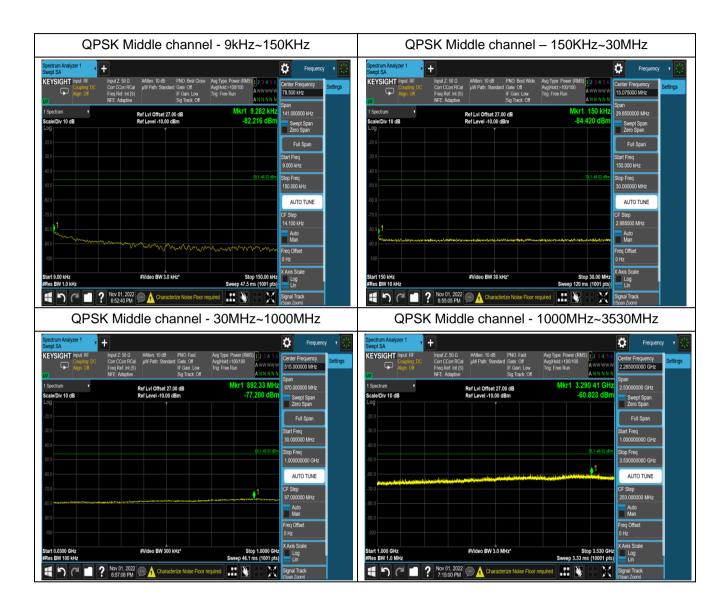
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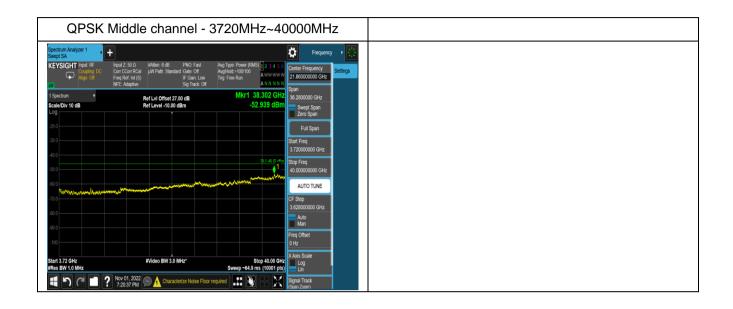
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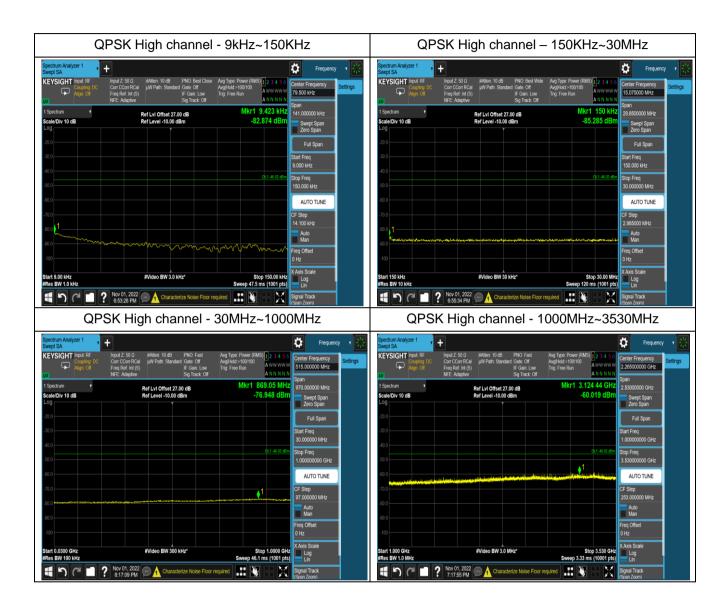
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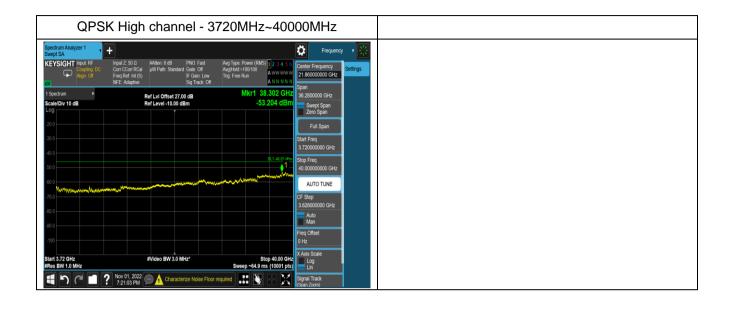
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6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §96.41

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit:

Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed –13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed –25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

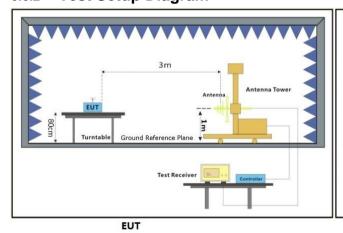
6.6.1 E.U.T. Operation

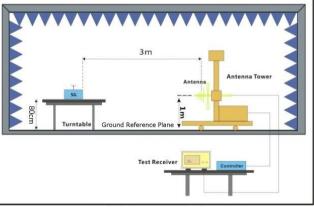
Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.6.2 Test Setup Diagram





Substiute Antenna+Signal Generator



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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3)The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6)The transmitter shall than be rotated through 360 in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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| | Low Channel | | | | | | |
|-----------|-------------|---------------|-------|-------|------------|--|--|
| Frequency | Spur | ious Emission | Level | Limit | Over limit | | |
| (MHz) | (Deg) | Polaxis | (dBm) | dBm | (dB) | | |
| 237.8 | 72 | Horizontal | -50.6 | -40 | -10.6 | | |
| 580.0 | 87 | Horizontal | -44.6 | -40 | -4.6 | | |
| 891.0 | 170 | Horizontal | -41.4 | -40 | -1.4 | | |
| 2496.9 | 31 | Horizontal | -46.8 | -40 | -6.8 | | |
| 6348.1 | 165 | Horizontal | -42.7 | -40 | -2.7 | | |
| 11402.8 | 225 | Horizontal | -41.3 | -40 | -1.3 | | |
| 188.2 | 76 | Vertical | -49.4 | -40 | -9.4 | | |
| 459.6 | 229 | Vertical | -42.6 | -40 | -2.6 | | |
| 734.0 | 340 | Vertical | -44.0 | -40 | -4.0 | | |
| 2527.2 | 264 | Vertical | -41.4 | -40 | -1.4 | | |
| 6364.0 | 305 | Vertical | -42.8 | -40 | -2.8 | | |
| 12055.5 | 256 | Vertical | -42.1 | -40 | -2.1 | | |

| Middle Channel | | | | | | | |
|----------------|-------|--------------|-------|-------|------------|--|--|
| Frequency | Spuri | ous Emission | Level | Limit | Over limit | | |
| (MHz) | (Deg) | Polaxis | (dBm) | dBm | (dB) | | |
| 276.9 | 76 | Horizontal | -51.1 | -40 | -11.1 | | |
| 636.0 | 95 | Horizontal | -44.7 | -40 | -4.7 | | |
| 967.8 | 168 | Horizontal | -41.9 | -40 | -1.9 | | |
| 2595.8 | 50 | Horizontal | -48.4 | -40 | -8.4 | | |
| 6442.0 | 160 | Horizontal | -43.7 | -40 | -3.7 | | |
| 11545.8 | 217 | Horizontal | -41.2 | -40 | -1.2 | | |
| 260.2 | 70 | Vertical | -50.7 | -40 | -10.7 | | |
| 551.2 | 216 | Vertical | -44.0 | -40 | -4.0 | | |
| 886.8 | 319 | Vertical | -46.5 | -40 | -6.5 | | |
| 2556.1 | 246 | Vertical | -43.5 | -40 | -3.5 | | |
| 6487.5 | 288 | Vertical | -43.2 | -40 | -3.2 | | |
| 12114.6 | 240 | Vertical | -42.6 | -40 | -2.6 | | |



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| | High Channel | | | | | | |
|-----------|--------------|---------------|-------|-------|------------|--|--|
| Frequency | Spur | ious Emission | Level | Limit | Over limit | | |
| (MHz) | (Deg) | Polaxis | (dBm) | dBm | (dB) | | |
| 245.7 | 78 | Horizontal | -51.2 | -40 | -11.2 | | |
| 730.8 | 91 | Horizontal | -45.3 | -40 | -5.3 | | |
| 996.8 | 179 | Horizontal | -42.5 | -40 | -2.5 | | |
| 2619.3 | 51 | Horizontal | -48.3 | -40 | -8.3 | | |
| 6530.9 | 170 | Horizontal | -45.0 | -40 | -5.0 | | |
| 11591.8 | 222 | Horizontal | -42.8 | -40 | -2.8 | | |
| 279.1 | 75 | Vertical | -50.1 | -40 | -10.1 | | |
| 694.2 | 215 | Vertical | -44.4 | -40 | -4.4 | | |
| 893.7 | 322 | Vertical | -47.0 | -40 | -7.0 | | |
| 2566.3 | 250 | Vertical | -45.1 | -40 | -5.1 | | |
| 6580.7 | 286 | Vertical | -42.4 | -40 | -2.4 | | |
| 12136.8 | 248 | Vertical | -42.5 | -40 | -2.5 | | |

Remark:

- 1) Pretest with normal and extreme conditions, only the worst case data was showed in the test report.
- 2) We have tested all modulation and all Channel, but only the worst case data displayed in this report.



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6.7 Frequency stability

Test Requirement: §2.1055

Test Method: ANSI C63.26, KDB 971168 D01 v03

Limit: Fundamental emission stays within authorized frequency block

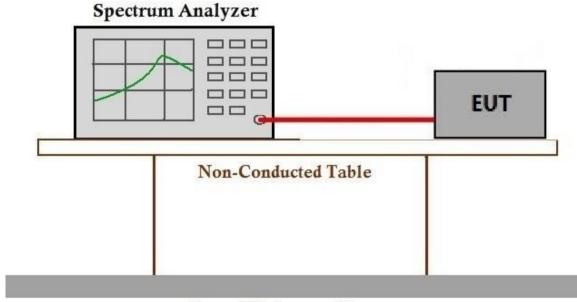
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.4 °C Humidity: 56.4 % RH Atmospheric Pressure: 1030 mbar

Test mode: 00: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



Ground Reference Plane



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6.7.3 Measurement Data

Frequency Stability vs temperature:

1.Test for 5G NR Band n78 Downlink (Middle Channel 3625.02MHz)

| Temperature(°C) | Voltage (V dc) | Frequency Error (Hz) | Tolerance(ppm) |
|-----------------|----------------|-------------------------|----------------|
| 50 | 48.00 | 51.61 | 0.0142 |
| 40 | 48.00 | 45.40 | 0.0125 |
| 30 | 48.00 | 20.10 | 0.0055 |
| 20 | 48.00 | 19.18 | 0.0053 |
| 10 | 48.00 | 55.58 | 0.0153 |
| 0 | 48.00 | 6.90 | 0.0019 |
| -10 | 48.00 | 15.89 | 0.0044 |
| -20 | 48.00 | 16.12 | 0.0044 |
| -30 | 48.00 | 30.00 | 0.0083 |



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Frequency Stability vs voltage:

1. Test for 5G NR Band n78 Downlink (Middle Channel 3625.02MHz)

| Voltage (V dc) | Temperature(°C) | Frequency Error (Hz) | Tolerance(ppm) |
|----------------|-----------------|-------------------------|----------------|
| 43.20 | 25 | 58.59 | 0.0162 |
| 48.00 | 25 | 61.78 | 0.0170 |
| 52.80 | 25 | 31.66 | 0.0087 |

Remark:

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7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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