

Report No.: SEWM2311000473RG02

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## **TEST REPORT**

Application No.: SEWM2311000473RG

**Applicant:** Quectel Wireless Solutions Co., Ltd.

Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin

Road, Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin

Road, Minhang District, Shanghai, China 200233

**EUT Description**: 5G Sub-6 GHz LGA Module

Model No.: RG620T-NA

Trade Mark: Quectel

FCC ID: XMR2024RG620TNA

**Standards:** 47 CFR Part 2

47 CFR Part 22 47 CFR Part 24 47 CFR Part 27 47 CFR Part 90

**Date of Receipt:** 2023/03/06 (for report SEWA2303000029RG02)

2023/11/21 (for report SEWM2311000473RG02)

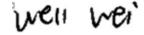
**Date of Test:** 2023/03/10 to 2023/04/23 (for report SEWA2303000029RG02)

2023/11/20 to 2024/05/25 (for report SEWM2311000473RG02)

**Date of Issue:** 2024/05/25

Test Result: PASS \*

Authorized Signature:



Well Wei Wireless Laboratory Manager



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<sup>\*</sup> In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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#### 1 Version

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2024/04/29 |          | Original |

| Prepared By | (Levi Li) / Test Engineer |
|-------------|---------------------------|
| Checked By  | (Stone Gu) / Reviewer     |



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### 2 Test Summary

### 2.1 NR Band n5/ NR Band n26(824~849 MHz)/CA\_n5B

| Test Item                                                    | FCC Rule No.                                 | Requirements                                                                                            | Test Result                                | Verdict |
|--------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated<br>Power Output<br>Data | §2.1046,<br>§22.913(a)(5)                    | FCC: ERP ≤ 7 W                                                                                          | Section 1 of<br>Appendix<br>B.27&B.34&B.48 | Pass    |
| Peak-Average<br>Ratio                                        | §22.913(d)                                   | Limit≤13 dB                                                                                             | Section 2 of<br>Appendix<br>B.27&B.34&B.48 | Pass    |
| Bandwidth                                                    | §2.1049                                      | OBW: No limit.<br>EBW: No limit.                                                                        | Section 3 of<br>Appendix<br>B.27&B.34&B.48 | Pass    |
| Band Edges<br>Compliance                                     | §2.1051,<br>§22.917(a)                       | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.               | Section 4 of<br>Appendix<br>B.27&B.34&B.48 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals              | §2.1051,<br>§22.917(a)                       | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. | Section 5 of<br>Appendix<br>B.27&B.34&B.48 | Pass    |
| Field Strength<br>of Spurious<br>Radiation                   | §2.1053,<br>§22.917(a)                       | FCC: ≤ -13 dBm/100 kHz.                                                                                 | Section 6 of<br>Appendix<br>B.27&B.34&B.48 | Pass    |
| Frequency<br>Stability                                       | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§22.355 | ≤ ±2.5ppm.                                                                                              | Section 7 of<br>Appendix<br>B.27&B.34&B.48 | Pass    |



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### 2.2 NR Band n7/ NR Band n38/ NR Band n41/CA\_n7B/CA\_n41C

| T 4 24                                                       | Toot Boult               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |         |
|--------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------|
| Test Item                                                    | FCC Rule No.             | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Test Result                                       | Verdict |
| Effective<br>(Isotropic)<br>Radiated<br>Power<br>Output Data | §2.1046,<br>§27.50(h)(2) | EIRP ≤ 2W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Section 1 of Appendix<br>B.28&B.36&B.37&B.49&B.50 | Pass    |
| Peak-<br>Average<br>Ratio                                    |                          | ≤13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Section 2 of Appendix<br>B.28&B.36&B.37&B.49&B.50 | Pass    |
| Bandwidth                                                    | §2.1049                  | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section 3 of Appendix<br>B.28&B.36&B.37&B.49&B.50 | Pass    |
| Band Edges<br>Compliance                                     | §2.1051,<br>§27.53(m)(4) | For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as de ned in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. | Section 4 of Appendix<br>B.28&B.36&B.37&B.49&B.50 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals              | §2.1051,<br>§27.53(m)    | Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz × MHz 10 <sup>th</sup> harmonics X=Max {6MHz, EBW}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Section 5 of Appendix<br>B.28&B.36&B.37&B.49&B.50 | Pass    |
| Field<br>Strength of<br>Spurious<br>Radiation                | §2.1053,<br>§27.53(m)    | Channel Edge  -25dBm/ 1 MHz  9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Section 6 of Appendix<br>B.28&B.36&B.37&B.49&B.50 | Pass    |
| Frequency                                                    | §2.1055(a)(1)(b)         | Within authorized bands of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Section 7 of Appendix                             | Pass    |



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| ĺ | Test Item | FCC Rule No.            | Requirements               | Test Result              | Verdict |
|---|-----------|-------------------------|----------------------------|--------------------------|---------|
| I | Stability | §2.1055(d)(1)<br>§27.54 | operation/frequency block. | B.28&B.36&B.37&B.49&B.50 |         |



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#### 2.3 NR Band n2/ NR Band n25

| Test Item                                                 | FCC Rule No.                                 | Requirements                                                                                                 | Test Result                           | Verdict |
|-----------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated Power<br>Output Data | §2.1046,<br>§24.232(c)                       | EIRP ≤ 2 W                                                                                                   | Section 1 of<br>Appendix<br>B.26&B.32 | Pass    |
| Peak-Average<br>Ratio                                     | §24.232(d)                                   | Limit≤13 dB                                                                                                  | Section 2 of<br>Appendix<br>B.26&B.32 | Pass    |
| Bandwidth                                                 | §2.1049                                      | OBW: No limit.<br>EBW: No limit.                                                                             | Section 3 of<br>Appendix<br>B.26&B.32 | Pass    |
| Band Edges<br>Compliance                                  | §2.1051,<br>§24.238(a)                       | ≤ -13 dBm/1%*EBW, in 1 MHz<br>bands immediately outside and<br>adjacent to the frequency<br>block.           | Section 4 of<br>Appendix<br>B.26&B.32 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals           | §2.1051,<br>§24.238(a)                       | ≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Section 5 of<br>Appendix<br>B.26&B.32 | Pass    |
| Field Strength of<br>Spurious<br>Radiation                | §2.1053,<br>§24.238(a)                       | ≤ -13 dBm/1 MHz.                                                                                             | Section 6 of<br>Appendix<br>B.26&B.32 | Pass    |
| Frequency<br>Stability                                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§24.235 | Within authorized bands of operation/frequency block.                                                        | Section 7 of<br>Appendix<br>B.26&B.32 | Pass    |



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#### 2.4 NR Band n12

| Test Item                                                 | FCC Rule No.                                | Requirements                                          | Test Result                   | Verdict |
|-----------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|-------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated Power<br>Output Data | §2.1046<br>§27.50(c)(10)                    | ERP≤3W.                                               | Section 1 of<br>Appendix B.29 | Pass    |
| Peak-Average<br>Ratio                                     |                                             | Limit≤13 dB                                           | Section 2 of<br>Appendix B.29 | Pass    |
| Bandwidth                                                 | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                      | Section 3 of<br>Appendix B.29 | Pass    |
| Band Edges<br>Compliance                                  | §2.1051,<br>§27.53(g)                       | ≤ 43+10log10(P[Watts])                                | Section 4 of<br>Appendix B.29 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals           | §2.1051,<br>§27.53(g)                       | ≤ 43+10log10(P[Watts])                                | Section 5 of<br>Appendix B.29 | Pass    |
| Field Strength of<br>Spurious<br>Radiation                | §2.1053,<br>§27.53(g)                       | FCC: ≤ -13 dBm/100 kHz.                               | Section 6 of<br>Appendix B.29 | Pass    |
| Frequency<br>Stability                                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block. | Section 7 of<br>Appendix B.29 | Pass    |



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#### 2.5 NR Band n13

| Test Item                                                    | FCC Rule No.                                | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Test Result                   | Verdict |
|--------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated<br>Power Output<br>Data | §2.1046,<br>§27.50(b)(10)                   | ERP ≤ 3 W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Section 1 of<br>Appendix B.30 | Pass    |
| Peak-Average<br>Ratio                                        |                                             | Limit≤13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Section 2 of<br>Appendix B.30 | Pass    |
| Bandwidth                                                    | §2.1049,                                    | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Section 3 of<br>Appendix B.30 | Pass    |
| Band Edges<br>Compliance                                     | §2.1051,<br>§27.53(c)                       | ≤ 43+10log10(P[Watts])                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Section 4 of<br>Appendix B.30 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals              | §2.1051,<br>§27.53(c)<br>§27.53(f)          | ≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.  On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.  For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. | Section 5 of<br>Appendix B.30 | Pass    |
| Field Strength<br>of Spurious<br>Radiation                   | §2.1053,<br>§27.53(c)<br>§27.53(f)          | FCC: ≤ -13 dBm/100 kHz. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.                                                                                                                                                                                                                                                             | Section 6 of<br>Appendix B.30 | Pass    |
| Frequency<br>Stability                                       | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Section 7 of<br>Appendix B.30 | Pass    |



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#### 2.6 NR Band n14

| Test Item                                                 | FCC Rule No.                | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Test Result                   | Verdict |
|-----------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated Power<br>Output Data | §2.1046<br>§90.542(a)       | ERP ≤ 3 W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Section 1 of<br>Appendix B.31 | Pass    |
| Peak-Average<br>Ratio                                     |                             | Limit≤13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Section 2 of<br>Appendix B.31 | Pass    |
| Bandwidth                                                 | §2.1049                     | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Section 3 of<br>Appendix B.31 | Pass    |
| Emission Mask                                             | §2.1051<br>§90.210(b)       | Transmitters designed for operation under this part on frequencies other than listed in this section must meet the emission mask requirements of Emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards (b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.(2) On any frequency removed from the assigned frequency by more than 100 percent of the authorized bandwidth: At least 35 dB(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB. | Section 4 of<br>Appendix B.31 | Pass    |
| Band Edges<br>Compliance                                  | §2.1051<br>§90.543(e)(2)(3) | (1) On all frequencies between 769-<br>775 MHz and 799-805 MHz, by a<br>factor not less than 76 + 10 log (P)<br>dB in a 6.25 kHz band segment, for<br>base and fixed stations.(2) On all<br>frequencies between 769-775 MHz<br>and 799-805 MHz, by a factor not<br>less than 65 + 10 log (P) dB in a 6.25<br>kHz band segment, for mobile and<br>portable stations.(3) On any                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Section 5 of<br>Appendix B.31 | Pass    |



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|                                                 |                                              | . age. :=                                                                                                                                                                                                                                                                                                                                                                                                 |                               |      |
|-------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------|
|                                                 |                                              | frequency between 775-788 MHz,<br>above 805 MHz, and below 758<br>MHz, by at least 43 + 10 log (P) dB.                                                                                                                                                                                                                                                                                                    |                               |      |
| Spurious<br>Emission at<br>Antenna<br>Terminals | §2.1051,<br>§90.543(c)<br>§90.543(f)         | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. | Section 6 of<br>Appendix B.31 | Pass |
| Field Strength<br>of Spurious<br>Radiation      | §2.1053,<br>§90.543(c)<br>§90.543(f)         | FCC: ≤ -13 dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.                                                                                 | Section 7 of<br>Appendix B.31 | Pass |
| Frequency<br>Stability                          | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§90.213 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                                                                                                                                                     | Section 8 of<br>Appendix B.31 | Pass |



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### 2.7 NR Band n26(814~824 MHz)

| Test Item                                       | FCC Rule No.                                 | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                        | Test Result                   | Verdict |
|-------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|
| Transmitter Conducted Power Output              | §2.1046,<br>§90.635(b)                       | < 100 W.                                                                                                                                                                                                                                                                                                                                                                                                                                            | Section 1 of<br>Appendix B.33 | Pass    |
| Peak-Average<br>Ratio                           |                                              | Limit≤13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                         | Section 2 of<br>Appendix B.33 | Pass    |
| Bandwidth                                       | §2.1049                                      | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                    | Section 3 of<br>Appendix B.33 | Pass    |
| Emission Mask                                   | §2.1051<br>§ 90.691(a)                       | For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. | Section 4 of<br>Appendix B.33 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals | §2.1051,<br>§90.691                          | < 43 + 10Log10(P[Watts]) for all out-<br>of-band emissions                                                                                                                                                                                                                                                                                                                                                                                          | Section 5 of<br>Appendix B.33 | Pass    |
| Field Strength of<br>Spurious<br>Radiation      | §2.1053,<br>§90.691                          | < 43 + 10Log10(P[Watts]) for all out-<br>of-band emissions                                                                                                                                                                                                                                                                                                                                                                                          | Section 6 of<br>Appendix B.33 | Pass    |
| Frequency<br>Stability                          | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§90.213 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                                                                                                                                                                                               | Section 7 of<br>Appendix B.33 | Pass    |



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#### 2.8 NR Band n30

| Test Item                                                 | FCC Rule No.             | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Test Result                   | Verdict |
|-----------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated Power<br>Output Data | §2.1046,<br>§27.50(a)(3) | EIRP ≤ 50mW/1MHz<br>EIRP ≤ 250mW/5MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Section 1 of<br>Appendix B.35 | Pass    |
| Peak-Average<br>Ratio                                     |                          | FCC: Limit≤13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section 2 of<br>Appendix B.35 | Pass    |
| Bandwidth                                                 | §2.1049,                 | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section 3 of<br>Appendix B.35 | Pass    |
| Band Edges<br>Compliance                                  | §2.1051,<br>§27.53(a)(4) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Section 4 of<br>Appendix B.35 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals           | §2.1051,<br>§27.53(a)(4) | Figure 1 transmit behave, meals, and Law Preser Paule behave the Experiment of the Preservation Both P | Section 5 of<br>Appendix B.35 | Pass    |



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|                                            |                                             | r age. 10                                                                                                                                                                                                  | J. J.                         |      |
|--------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------|
|                                            |                                             | between 2288 and 2292 MHz, and<br>70 + 10 log (P) dB below 2288<br>MHz;(iii) By a factor of not less than<br>43 + 10 log (P) dB on all<br>frequencies between 2360 and<br>2365 MHz, and not less than 70 + |                               |      |
|                                            |                                             | 10 log (P) dB above 2365 MHz.                                                                                                                                                                              |                               |      |
| Field Strength<br>of Spurious<br>Radiation | §2.1053,<br>§27.53(a)(4)                    | ≤ -13 dBm/1 MHz.                                                                                                                                                                                           | Section 6 of<br>Appendix B.35 | Pass |
| Frequency<br>Stability                     | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | within the range of the operating frequency blocks                                                                                                                                                         | Section 7 of<br>Appendix B.35 | Pass |



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#### 2.9 NR Band n66/ NR Band n70

| Test Item                                                 | FCC Rule No.                                | Requirements                                                                                                 | Test Result                            | Verdict |
|-----------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated Power<br>Output Data | §2.1046,<br>§27.50(d)(4)                    | EIRP ≤ 1 W                                                                                                   | Section 1 of<br>Appendix<br>B.38& B.39 | Pass    |
| Peak-Average<br>Ratio                                     | §27.50(d)(5)                                | Limit≤13 dB                                                                                                  | Section 2 of<br>Appendix<br>B.38& B.39 | Pass    |
| Bandwidth                                                 | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                                                                             | Section 3 of<br>Appendix<br>B.38& B.39 | Pass    |
| Band Edges<br>Compliance                                  | §2.1051,<br>§27.53(h)                       | ≤ -13 dBm/1%*EBW, in 1 MHz<br>bands immediately outside and<br>adjacent to the frequency<br>block.           | Section 4 of<br>Appendix<br>B.38& B.39 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals           | §2.1051,<br>§27.53(h)                       | ≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges. | Section 5 of<br>Appendix<br>B.38& B.39 | Pass    |
| Field Strength of<br>Spurious<br>Radiation                | §2.1053,<br>§27.53(h)                       | ≤ -13 dBm/1 MHz.                                                                                             | Section 6 of<br>Appendix<br>B.38& B.39 | Pass    |
| Frequency<br>Stability                                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                        | Section 7 of<br>Appendix<br>B.38& B.39 | Pass    |



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#### 2.10 NR Band n71

| Test Item                                                 | FCC Rule No.                                | Requirements                              | Test Result                   | Verdict |
|-----------------------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated Power<br>Output Data | §2.1046<br>§27.50(c)(10)                    | ERP≤3W                                    | Section 1 of<br>Appendix B.40 | Pass    |
| Peak-Average<br>Ratio                                     |                                             | Limit≤13 dB                               | Section 2 of<br>Appendix B.40 | Pass    |
| Bandwidth                                                 | §2.1049                                     | OBW: No limit.<br>EBW: No limit.          | Section 3 of<br>Appendix B.40 | Pass    |
| Band Edges<br>Compliance                                  | §2.1051,<br>§27.53(g)                       | ≤ 43+10log10(P[Watts])                    | Section 4 of<br>Appendix B.40 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals           | §2.1051,<br>§27.53(g)                       | ≤ 43+10log10(P[Watts])                    | Section 5 of<br>Appendix B.40 | Pass    |
| Field Strength of<br>Spurious<br>Radiation                | §2.1053,<br>§27.53(g)                       | ≤ -13 dBm/1 MHz.                          | Section 6 of<br>Appendix B.40 | Pass    |
| Frequency<br>Stability                                    | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | within the authorized bands of operation. | Section 7 of<br>Appendix B.40 | Pass    |



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#### 2.11 NR Band n77/ NR Band n78

#### 3700-3980MHz:

| Test Item                                                    | FCC Rule No.                                | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Test Result                            | Verdict |
|--------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated<br>Power Output<br>Data | §2.1046,<br>§27.50(j)(3)                    | EIRP ≤ 1W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Section 1 of<br>Appendix<br>B.42& B.44 | Pass    |
| Peak-Average<br>Ratio                                        |                                             | ≤13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Section 2 of<br>Appendix<br>B.42& B.44 | Pass    |
| Bandwidth                                                    | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Section 3 of<br>Appendix<br>B.42& B.44 | Pass    |
| Band Edges<br>Compliance                                     | §2.1051,<br>§27.53(I)(2)                    | (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed - 13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. | Section 4 of<br>Appendix<br>B.42& B.44 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals              | §2.1051,<br>§27.53(I)(2)                    | not exceed -13 dBm/MHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Section 5 of<br>Appendix<br>B.42& B.44 | Pass    |
| Field Strength<br>of Spurious<br>Radiation                   | §2.1053,<br>§27.53(I)(2)                    | not exceed -13 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Section 6 of<br>Appendix<br>B.42& B.44 | Pass    |
| Frequency<br>Stability                                       | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/frequency block.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Section 7 of<br>Appendix<br>B.42& B.44 | Pass    |



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#### 3450-3550MHz:

| Test Item                                                       | FCC Rule No.                                | Requirements                                                                                                                                                   | Test Result                            | Verdict |
|-----------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------|
| Effective<br>(Isotropic)<br>Radiated<br>Power<br>Output<br>Data | §2.1046,<br>§27.50(k)(3)                    | EIRP ≤ 30dBm                                                                                                                                                   | Section 1 of<br>Appendix<br>B.41& B.43 | Pass    |
| Peak-<br>Average<br>Ratio                                       | §27.50(k)(4)                                | FCC: Limit≤13 dB                                                                                                                                               | Section 2 of<br>Appendix<br>B.41& B.43 | Pass    |
| Bandwidth                                                       | §2.1049                                     | OBW: No limit.<br>EBW: No limit.                                                                                                                               | Section 3 of<br>Appendix<br>B.41& B.43 | Pass    |
| Band<br>Edges<br>Compliance                                     | §2.1051,<br>§27.50(n)(2)                    | For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. | Section 4 of<br>Appendix<br>B.41& B.43 | Pass    |
| Spurious<br>Emission at<br>Antenna<br>Terminals                 | §2.1051,<br>§27.50(n)(2)                    | For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. | Section 5 of<br>Appendix<br>B.41& B.43 | Pass    |
| Field<br>Strength of<br>Spurious<br>Radiation                   | §2.1053,<br>§27.50(n)(2)                    | For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. | Section 6 of<br>Appendix<br>B.41& B.43 | Pass    |
| Frequency<br>Stability                                          | §2.1055(a)(1)(b)<br>§2.1055(d)(1)<br>§27.54 | Within authorized bands of operation/ frequency block.                                                                                                         | Section 7 of<br>Appendix<br>B.41& B.43 | Pass    |



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Remark for SEWM2311000473RG02 issue on 2024/04/29:

This test report (Report No.: SEWM2311000473RG02 issue on 2024/04/29) is based on the original test report (Report No.: SEWA2303000029RG02 (FCC ID: XMR2023RG620TNA) issue on 2023/04/24).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report the the Power for all frequency bands, Field Strength of Spurious Radiation of CA\_n26A-n66A/CA\_n26A-n70A/CA\_n70A-n71A/CA\_n70A-n77A/CA\_n71A-n66A/CA\_n71A-n70A/DC\_14A\_n5A, and all test items of CA\_n5B, CA\_n7B, CA\_n41C, NR Band n2/n5/n25/n38/n66/n70/n71 UL MIMO were tested and Field Strength of Spurious Radiation were performed based on the worst case of the original report with report number SEWA2303000029RG02 (FCC ID: XMR2023RG620TNA) issue on 2023/04/24 and other test data in this report are based on the previous report with report number SEWA2303000029RG02 (FCC ID: XMR2023RG620TNA) issue on 2023/04/24.

#### Summary of the Spot check:

The items of Power and Field Strength of Spurious Radiation test against the variant model based on the worst-case condition from the original model was performed in this filing and the verification test results similar to the original FCC ID. All tests meet FCC technical limits. Detail sport check test result can be found in the Appendix A.3- Check data.



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#### 3 General Information

#### 3.1 Client Information

| Applicant:               | Quectel Wireless Solutions Co., Ltd.                                                                                  |  |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|--|
| Address of Applicant:    | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |  |
| Manufacturer:            | Quectel Wireless Solutions Co., Ltd.                                                                                  |  |
| Address of Manufacturer: | Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233 |  |

#### 3.2 Test Location

| Company:       | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.                                                               |  |
|----------------|------------------------------------------------------------------------------------------------------------------------|--|
| Address:       | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |  |
| Post code:     | 215000                                                                                                                 |  |
| Test engineer: | Levi Li, King-p Li                                                                                                     |  |

#### 3.3 Test Facility

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

#### • A2LA (Certificate No. 6336.01)

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#### • Innovation, Science and Economic Development Canada

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CAB identifier: CN0120.

IC#: 27594.

#### • FCC –Designation Number: CN1312

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Test Firm Registration Number: 717327



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### 3.4 General Description of EUT

| EUT Description:  | 5G Sub-6 GHz LGA I                                             | 5G Sub-6 GHz LGA Module      |                   |               |                           |  |
|-------------------|----------------------------------------------------------------|------------------------------|-------------------|---------------|---------------------------|--|
| Model No.:        | RG620T-NA                                                      |                              |                   |               |                           |  |
| Trade Mark:       | Quectel                                                        | Quectel                      |                   |               |                           |  |
| Hardware Version: | R2.0                                                           | R2.0                         |                   |               |                           |  |
| Software Version: | RG620TNA00AAR02                                                | 2A02                         | G55_OCPU          |               |                           |  |
| IMEI:             | RF Conducted                                                   | RF Conducted 861075060002904 |                   |               |                           |  |
| IIVI∟I.           | RSE                                                            | 86                           | 61075060011178    |               |                           |  |
| Feature:          | UL 2*2 MIMO: NR Ba<br>NR Band n2; NR Bar<br>NR Band n70; NR Ba | nd n5                        | ; NR Band n25; N  | •             | ·                         |  |
| HPUE Power Class: | NR Band n38; NR Ba                                             | and n                        | 41; NR Band n77   | ; NR Band     | n78                       |  |
| Antenna Type:     |                                                                | rated                        | i                 |               |                           |  |
|                   | NR Band n2:                                                    | 0.73                         | dBi (Ant1)        | 0.73dBi (     | (Ant7)                    |  |
|                   | NR Band n5:                                                    | 0.490                        | dBi (Ant1)        | 0.49dBi (     | (Ant7)                    |  |
|                   | NR Band n7:                                                    | 1.420                        | dBi (Ant1)        |               |                           |  |
|                   | NR Band n12:                                                   | -8.65dBi (Ant7)              |                   |               |                           |  |
|                   | NR Band n13:                                                   | -10.95dBi (Ant7)             |                   |               |                           |  |
|                   | NR Band n14:                                                   | -10.9                        | 5dBi (Ant7)       |               |                           |  |
|                   | NR Band n25:                                                   | 0.73dBi (Ant1)               |                   |               | (Ant7)                    |  |
|                   | NR Band n26:                                                   | 0.490                        | dBi (Ant1)        |               |                           |  |
|                   | NR Band n30:                                                   | -3.06                        | idBi (Ant1)       |               |                           |  |
|                   | NR Band n38:                                                   | 0.770                        | dBi (Ant1)        | 1.69dBi (     | (Ant7)                    |  |
| Antenna Gain:     | NR Band n41:                                                   | 1.420                        | dBi (Ant1)        | 2.61dBi       | (Ant7)                    |  |
|                   | NR Band n66:                                                   | -0.20                        | dBi (Ant1)        | -0.20dBi      | (Ant7)                    |  |
|                   | NR Band n70:                                                   | -0.80                        | dBi (Ant1)        | -0.80dBi      | (Ant7)                    |  |
|                   | NR Band n71:                                                   | -9.34                        | dBi (Ant1)        | -9.34dBi      | (Ant7)                    |  |
|                   | NR Band n77:                                                   | -3.48                        | dBi (Ant0)        | -3.48dBi      | (Ant6)                    |  |
|                   | NR Band n78:                                                   | -4.11                        | dBi (Ant0)        | -4.11dBi      | (Ant6)                    |  |
|                   | NR CA_n5B:                                                     | 0.49dBi (Ant1)               |                   |               |                           |  |
|                   | NR CA_n7B:                                                     | 1.42dBi (Ant1)               |                   |               |                           |  |
|                   | NR CA_n41C:                                                    | 1.42dBi (Ant1)               |                   |               |                           |  |
|                   | Note: The antenna gain are manufacturer.                       | e deri                       | ved from the gain | informatio    | on report provided by the |  |
| RF Cable:         | 0.8dB (Below 1GHz)                                             |                              | 1.0dB (1.0~2.40   | GHz)          | 1.2dB (2.4~3.4GHz)        |  |
|                   | 0.002 (20.000 10.12)                                           |                              | 1.5525 (1.0 2.70  | -··- <i>)</i> |                           |  |



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1.5dB (Above 3.4GHz)

Remark:

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#### MIMO Model:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain,  $G_{ANT}$ , Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows.

• For power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \le 4$ ;

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq$  40 MHz for any  $N_{ANT}$ ;

Array Gain =  $5 \log(N_{ANT}/N_{SS}=1)$  dB or 3 dB, whichever is less, for 20-MHz channel widths with  $N_{ANT} \ge 5$ .

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi

• If transmit signals are correlated, then

Directional gain = 10 log[(10<sup>G1/20</sup> + 10<sup>G2/20</sup> + ... + 10<sup>GN/20</sup>)<sup>2</sup> /N<sub>ANT</sub>] dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

• If all transmit signals are completely uncorrelated, then Directional gain =  $10 \log[(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/N_{ANT}] dBi$ 

• For MIMO mode, the conducted Bandedge/Spurious are tested at single antenna port and add 10\*log(NANT) according to KDB 662911 D01, only the worst MIMO Ant is shown in the report.

| Band         | ANT Gain1<br>(dBi) | ANT Gain7<br>(dBi) | Directional gain<br>(dBi) |
|--------------|--------------------|--------------------|---------------------------|
| NR Band n2:  | 0.73               | 0.73               | 0.73                      |
| NR Band n5:  | 0.49               | 0.49               | 0.49                      |
| NR Band n25: | 0.73               | 0.73               | 0.73                      |
| NR Band n38: | 0.77               | 1.69               | 1.25                      |
| NR Band n41: | 1.42               | 2.61               | 2.06                      |
| NR Band n66: | -0.2               | -0.2               | -0.2                      |
| NR Band n70: | -0.8               | -0.8               | -0.8                      |
| Band         | ANT Gain0<br>(dBi) | ANT Gain6<br>(dBi) | Directional gain<br>(dBi) |
| NR Band n77: | -3.48              | -3.48              | -3.48                     |
| NR Band n78: | -4.11              | -4.11              | -4.11                     |



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#### 3.5 Test Mode

| Test Mode                | Test Modes Description                                              |
|--------------------------|---------------------------------------------------------------------|
| NR/TM1                   | NR system, DFT-s-Pi/2-BPSK modulation                               |
| NR/TM2                   | NR system, DFT-s-QPSK modulation                                    |
| NR/TM3                   | NR system, DFT-s-16QAM modulation                                   |
| NR/TM4                   | NR system, DFT-s-64QAM modulation                                   |
| NR/TM5                   | NR system, DFT-s-256QAM modulation                                  |
| NR/TM6                   | NR system, CP-QPSK modulation                                       |
| NR/TM7                   | NR system, CP-16QAM modulation                                      |
| NR/TM8                   | NR system, CP-64QAM modulation                                      |
| NR/TM9                   | NR system, CP-256QAM modulation                                     |
| Remark: The test mode(s) | are selected according to relevant radio technology specifications. |

#### 3.6 Test Environment

| Environment Parameter | 101.0 kPa Selected Values During Tests |     |  |  |
|-----------------------|----------------------------------------|-----|--|--|
| Relative Humidity     | 44-46 % RH Ambient                     |     |  |  |
| Value                 | Temperature(°C) Voltage(V)             |     |  |  |
| NTNV                  | 22~23                                  | 3.8 |  |  |
| LTLV                  | -30                                    | 3.3 |  |  |
| LTHV                  | -30                                    | 4.4 |  |  |
| HTLV                  | 50                                     | 3.3 |  |  |
| HTHV                  | 50                                     | 4.4 |  |  |
| Remark:               |                                        |     |  |  |

NV: Normal Voltage LV: Low Extreme Test Voltage HV: High Extreme Test Voltage
NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature

### 3.7 Description of Support Units

| Description Manufacturer Model No.                                 |  |  |  |  |  |  |
|--------------------------------------------------------------------|--|--|--|--|--|--|
| Mother board Quectel N/A                                           |  |  |  |  |  |  |
| Remark: all above the information of table are provided by client. |  |  |  |  |  |  |



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### 3.8 Technical Specification

| Characteristics            | Description                                                      |                           |                  |  |  |
|----------------------------|------------------------------------------------------------------|---------------------------|------------------|--|--|
| Radio System Type          | ⊠ SA ⊠ NSA                                                       |                           |                  |  |  |
|                            | Band                                                             | TX                        | RX               |  |  |
|                            | NR Band n2                                                       | 1850 to 1910 MHz          | 1930 to 1990 MHz |  |  |
|                            | NR Band n5                                                       | 824 to 849 MHz            | 869 to 894 MHz   |  |  |
|                            | NR Band n7                                                       | 2500 to 2570 MHz          | 2620 to 2690 MHz |  |  |
|                            | NR Band n12                                                      | 699 to 716 MHz            | 729 to 746 MHz   |  |  |
|                            | NR Band n13                                                      | 777 to 787 MHz            | 746 to 756 MHz   |  |  |
|                            | NR Band n14                                                      | 788 to 798 MHz            | 758 to 768 MHz   |  |  |
|                            | NR Band n25                                                      | 1850 to 1915MHz           | 1930 to 1995 MHz |  |  |
|                            | NR Band n26<br>(814 to 824 MHz)                                  | 814 to 824MHz             | 859 to 869 MHz   |  |  |
|                            | NR Band n26<br>(824 to 849 MHz)                                  | 824 to 849 MHz            | 869 to 894 MHz   |  |  |
|                            | NR Band n30                                                      | 2305 to 2315 MHz          | 2350 to 2360 MHz |  |  |
|                            | NR Band n38                                                      | 2570 to 2620 MHz          | 2570 to 2620 MHz |  |  |
|                            | NR Band n41                                                      | 2496 to 2690 MHz          | 2496 to 2690 MHz |  |  |
| Owner and a difference and | NR Band n66                                                      | 1710 to 1780 MHz          | 2110 to 2180 MHz |  |  |
| Supported Frequency Range  | NR Band n70                                                      | 1695 to 1710 MHz          | 1995 to 2020 MHz |  |  |
|                            | NR Band n71                                                      | 663 to 698 MHz            | 617 to 652 MHz   |  |  |
|                            | NR Band n77*                                                     | 3700 to 3980 MHz          | 3700 to 3980 MHz |  |  |
|                            | NIX Dalid III I                                                  | 3450 to 3550 MHz          | 3450 to 3550 MHz |  |  |
|                            | NR Band n78*                                                     | 3700 to 3800 MHz          | 3700 to 3800 MHz |  |  |
|                            | NIX Balla III 6                                                  | 3450 to 3550 MHz          | 3450 to 3550 MHz |  |  |
|                            | NR CA:                                                           |                           |                  |  |  |
|                            | CA_n2A-n5A; CA_n2A-n7A; CA_n2A-n12A; CA_n2A-n41A; CA_n2A-n66A;   |                           |                  |  |  |
|                            | CA_n2A-n71A; CA_n2A-n77A; CA_n2A-n78A; CA_n5A-n5A; CA_n5A-n7A;   |                           |                  |  |  |
|                            | CA_n5A-n12A; CA_n5A-n41A; CA_n5A-n66A; CA_n5A-n71A; CA_n5A-n77A; |                           |                  |  |  |
|                            | CA_n5A-n78A; CA_n7A-n12A; CA_n7A-n25A; CA_n7A-n66A; CA_n7A-n71A; |                           |                  |  |  |
|                            | CA_n7A-n77A; CA_n7A-n78A; CA_n12A-n25A; CA_n12A-n41A;            |                           |                  |  |  |
|                            | CA_n12A-n66A; CA                                                 | _n12A-n77A; CA_n25A-n41A; | CA_n25A-n66A;    |  |  |
|                            | CA_n25A-n71A; CA                                                 | _n25A-n77A; CA_n25A-n78A; | CA_n41A-n66A;    |  |  |
|                            | CA_n41A-n71A; CA                                                 | _n41A-n77A; CA_n41A-n78A; | CA_n66A-n71A;    |  |  |
|                            | CA_n66A-n77A; CA                                                 | _n66A-n78A; CA_n71A-n77A; | CA_n71A-n78A;    |  |  |



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CA\_n5B; CA\_n7B; CA\_n41C;

CA\_n26A-n66A; CA\_n26A-n70A; CA\_n70A-n71A; CA\_n70A-n77A;

CA\_n71A-n66A; CA\_n71A-n70A;

ENDC:

DC\_2A\_n2A; DC\_2A\_n5A; DC\_2A\_n7A; DC\_2A\_n12A; DC\_2A\_n25A;

DC 2A n30A; DC 2A n38A; DC 2A n41A; DC 2A n66A; DC 2A n71A;

DC\_2A\_n77A; DC\_2A\_n78A; DC\_4A\_n2A; DC\_4A\_n7A; DC\_4A\_n38A;

DC\_4A\_n41A; DC\_4A\_n66A; DC\_4A\_n71A; DC\_4A\_n78A; DC\_5A\_n2A;

DC\_5A\_n5A; DC\_5A\_n7A; DC\_5A\_n30A; DC\_5A\_n38A; DC\_5A\_n41A;

DC\_5A\_n66A; DC\_5A\_n71A; DC\_5A\_n77A; DC\_5A\_n78A; DC\_7A\_n2A;

DC\_7A\_n5A; DC\_7A\_n7A; DC\_7A\_n12A; DC\_7A\_n25A; DC\_7A\_n66A;

DC\_7A\_n71A; DC\_7A\_n77A; DC\_7A\_n78A; DC\_12A\_n2A; DC\_12A\_n5A;

DC\_12A\_n7A; DC\_12A\_n25A; DC\_12A\_n30A; DC\_12A\_n38A; DC\_12A\_n41A;

DC\_12A\_n66A; DC\_12A\_n77A; DC\_12A\_n78A; DC\_13A\_n2A; DC\_13A\_n5A;

DC\_13A\_n7A; DC\_13A\_n25A; DC\_13A\_n66A; DC\_13A\_n77A; DC\_13A\_n78A;

DC\_14A\_n2A; DC\_14A\_n30A; DC\_14A\_n66A; DC\_14A\_n77A; DC\_25A\_n41A;

DC 25A n77A; DC 25A n78A; DC 26A n25A; DC 26A n41A;

DC\_26A\_n78A; DC\_30A\_n2A; DC\_30A\_n5A; DC\_30A\_n12A; DC\_30A\_n66A;

DC\_30A\_n77A; DC\_38A\_n78A; DC\_41A\_n41A; DC\_41A\_n77A;

DC\_41A\_n78A; DC\_42A\_n77A; DC\_66A\_n2A; DC\_66A\_n5A; DC\_66A\_n7A;

DC\_66A\_n12A; DC\_66A\_n25A; DC\_66A\_n30A; DC\_66A\_n38A;

DC\_66A\_n41A; DC\_66A\_n66A; DC\_66A\_n71A; DC\_66A\_n77A;

 $DC\_66A\_n78A; DC\_71A\_n2A; DC\_71A\_n7A; DC\_71A\_n25A; DC\_71A\_n38A;$ 

DC\_71A\_n41A; DC\_71A\_n66A; DC\_71A\_n78A; DC\_14A\_n5A

ENDC& NRCA Only test RSE, report only show worst mode.

#### Note\*:

Both NR Band n77 and NR Band n78 have the same frequency range 3450 MHz to 3550 MHz, and NR Band n78 was fully tested, NR Band n77 only test the items of Power.

| Supported Channel |
|-------------------|
| Bandwidth         |

| ١, | NR Band n2    | SCS 15kHz: |         |         |         |
|----|---------------|------------|---------|---------|---------|
| '  | NR Ballu IIZ  | ⊠5 MHz     | ⊠10 MHz | ⊠15 MHz | ⊠20 MHz |
| Ι, | VD Dond nE    | SCS 15kHz: |         |         |         |
|    | NR Band n5    | ⊠5 MHz     | ⊠10 MHz | ⊠15 MHz | ⊠20 MHz |
| Γ, | NR Band n7    | SCS 15kHz: |         |         |         |
| '  | NIX Dallu III | ⊠5 MHz     | ⊠10 MHz | ⊠15 MHz | ⊠20 MHz |



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|----------------|------------|----------|----------|---------|
| NR Band n12    | SCS 15kHz: |          |          |         |
| INR Ballu II12 | ⊠5 MHz     | ⊠10 MHz  | ⊠15 MHz  |         |
| NR Band n13    | SCS 15kHz: |          |          |         |
|                | ⊠5 MHz     | ⊠10 MHz  |          |         |
| ND David vAA   | SCS 15kHz: |          |          |         |
| NR Band n14    | ⊠5 MHz     | ⊠10 MHz  |          |         |
| ND David v05   | SCS 15kHz: |          |          |         |
| NR Band n25    | ⊠5 MHz     | ⊠10 MHz  | ⊠15 MHz  | ⊠20 MHz |
| NR Band n26    | SCS 15kHz: |          |          |         |
| (814-824)      | ⊠5 MHz     | ⊠10 MHz  |          |         |
| NR Band n26    | SCS 15kHz: |          |          |         |
| (824-849)      | ⊠5 MHz     | ⊠10 MHz  | ⊠15 MHz  | ⊠20 MHz |
| ND David vi00  | SCS 15kHz: |          |          |         |
| NR Band n30    | ⊠5 MHz     | ⊠10 MHz  |          |         |
| 117.7          | SCS 30kHz: |          |          |         |
| NR Band n38    | ⊠10 MHz    | ⊠15 MHz  | ⊠20 MHz  | ⊠40 MHz |
|                | SCS 30kHz: |          |          |         |
|                | ⊠10 MHz    | ⊠15 MHz  | ⊠20 MHz  | ⊠30 MHz |
| NR Band n41    | ⊠40 MHz    | ⊠50 MHz  | ⊠60 MHz  | ⊠80 MHz |
|                | ⊠90 MHz    | ⊠100 MHz |          |         |
|                | SCS 15kHz: |          |          |         |
| NR Band n66    | ⊠5 MHz     | ⊠10 MHz  | ⊠15 MHz  | ⊠20 MHz |
|                | ⊠25 MHz    | ⊠30 MHz  | ⊠40 MHz  |         |
|                | SCS 15kHz: |          |          |         |
| NR Band n70    | ⊠5 MHz     | ⊠10 MHz  | ⊠15 MHz  |         |
| ND D 1 74      | SCS 15kHz: |          |          |         |
| NR Band n71    | ⊠5 MHz     | ⊠10 MHz  | ⊠15 MHz  | ⊠20 MHz |
|                | SCS 30kHz  |          |          |         |
|                | ⊠10 MHz    | ⊠15 MHz  | ⊠20 MHz  | ⊠40 MHz |
| NR Band n77    | ⊠50 MHz    | ⊠60 MHz  | ⊠70 MHz  | ⊠80 MHz |
|                | ⊠90 MHz    | ⊠100 MHz |          |         |
|                | SCS 30kHz  |          |          |         |
| ND D           | ⊠10 MHz    | ⊠15 MHz  | ⊠20 MHz  | ⊠40 MHz |
| NR Band n78    | ⊠50 MHz    | ⊠60 MHz  | ⊠70 MHz  | ⊠80 MHz |
|                | ⊠90 MHz    | ⊠100 MHz |          |         |
| -              | •          |          |          |         |



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|                                           | NR Band n2                      | DFT-s-Pi/2-<br>BPSK | CP-16QAM |          |
|                                           |                                 | SCS 15kHz:          |          |          |
|                                           |                                 | 4M47G7D             | 4M48W7D  |          |
|                                           |                                 | 8M94G7D             | 9M31W7D  |          |
|                                           |                                 | 13M4G7D             | 14M2W7D  |          |
|                                           |                                 | 17M9G7D             | 18M9W7D  |          |
|                                           |                                 | SCS 15kHz:          |          |          |
|                                           |                                 | 4M48G7D             | 4M48W7D  |          |
|                                           | NR Band n5                      | 8M94G7D             | 9M31W7D  |          |
|                                           |                                 | 13M4G7D             | 14M2W7D  |          |
|                                           |                                 | 17M9G7D             | 18M9W7D  |          |
|                                           |                                 | SCS 15kHz:          |          |          |
|                                           |                                 | 4M46G7D             | 4M49W7D  |          |
| Designation of                            | NR Band n7                      | 8M95G7D             | 9M31W7D  |          |
| Emissions (Remark: the necessary          |                                 | 13M4G7D             | 14M2W7D  |          |
| bandwidth of which is                     |                                 | 17M9G7D             | 19M0W7D  |          |
| the worst value from                      | NR Band n12                     | SCS 15kHz:          |          |          |
| the measured occupied bandwidths for each |                                 | 4M48G7D             | 4M48W7D  |          |
| type of channel                           | NR Banu 1112                    | 8M94G7D             | 9M26W7D  |          |
| bandwidth                                 |                                 | 13M4G7D             | 14M1W7D  |          |
| configuration.)                           |                                 | SCS 15kHz:          |          |          |
|                                           | NR Band n13                     | 4M48G7D             | 4M47W7D  |          |
|                                           |                                 | 8M90G7D             | 9M30W7D  |          |
|                                           |                                 | SCS 15kHz:          |          |          |
|                                           | NR Band n14                     | 4M48G7D             | 4M48W7D  |          |
|                                           |                                 | 8M95G7D             | 9M26W7D  |          |
|                                           |                                 | SCS 15kHz:          |          |          |
|                                           | NR Band n25                     | 4M48G7D             | 4M48W7D  |          |
|                                           |                                 | 8M95G7D             | 9M28W7D  |          |
|                                           |                                 | 13M4G7D             | 14M1W7D  |          |
|                                           |                                 | 17M9G7D             | 18M9W7D  |          |
|                                           |                                 | SCS 15kHz:          |          |          |
|                                           | NR Band n26<br>(814 to 824 MHz) | 4M47G7D             | 4M48W7D  |          |
|                                           | (0 17 (0 024 1/11 12)           | 8M90G7D             | 9M27W7D  |          |
|                                           |                                 |                     |          |          |



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|  |                                 | SCS 15kHz: |         |          |
|  | NR Band n26<br>(824 to 849 MHz) | 4M49G7D    | 4M47W7D |          |
|  | (021 to 010 tvii 12)            | 8M92G7D    | 9M31W7D |          |
|  |                                 | 13M4G7D    | 14M2W7D |          |
|  |                                 | 17M8G7D    | 18M9W7D |          |
|  |                                 | SCS 15kHz: |         |          |
|  | NR Band n30                     | 4M47G7D    | 4M48W7D |          |
|  |                                 | 8M92G7D    | 9M27W7D |          |
|  |                                 | SCS 30kHz: |         |          |
|  |                                 | 8M57G7D    | 8M60W7D |          |
|  | NR Band n38                     | 12M8G7D    | 13M6W7D |          |
|  |                                 | 17M9G7D    | 18M2W7D |          |
|  |                                 | 35M9G7D    | 37M8W7D |          |
|  |                                 | SCS 30kHz: |         |          |
|  |                                 | 8M95G7D    | 8M58W7D |          |
|  |                                 | 12M9G7D    | 13M6W7D |          |
|  |                                 | 17M8G7D    | 18M2W7D |          |
|  |                                 | 26M8G7D    | 27M9W7D |          |
|  | NR Band n41                     | 35M8G7D    | 37M9W7D |          |
|  |                                 | 45M8G7D    | 47M4W7D |          |
|  |                                 | 57M9G7D    | 57M8W7D |          |
|  |                                 | 77M3G7D    | 77M4W7D |          |
|  |                                 | 85M7G7D    | 87M4W7D |          |
|  |                                 | 96M4G7D    | 97M4W7D |          |
|  |                                 | SCS 15kHz: |         |          |
|  |                                 | 4M47G7D    | 4M47W7D |          |
|  |                                 | 8M94G7D    | 9M30W7D |          |
|  | NR Band n66                     | 13M4G7D    | 14M1W7D |          |
|  |                                 | 17M9G7D    | 18M9W7D |          |
|  |                                 | 22M9G7D    | 23M8W7D |          |
|  |                                 | 28M6G7D    | 28M5W7D |          |
|  |                                 | 38M6G7D    | 38M5W7D |          |
|  |                                 | SCS 15kHz: |         |          |
|  | NR Band n70                     | 4M48G7D    | 4M47W7D |          |
|  |                                 | 8M92G7D    | 9M28W7D |          |
|  |                                 |            |         | •        |



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| 13M4G7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                     |            | i ago.  | <u> </u> | _ |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|------------|---------|----------|---|
| ### AM48G7D ### AM47W7D ### AM47W7D ### AM48G7D ### AM47W7D #### AM48G7D #### AM47W7D #### AM48G7D #### AM47W7D ##### AM48G7D #################################### |  |                     | 13M4G7D    | 14M2W7D |          |   |
| 8M94G7D 9M29W7D  13M5G7D 14M1W7D  17M9G7D 18M9W7D  SCS 30kHz:  8M61G7D 8M59W7D  12M9G7D 13M6W7D  17M8G7D 18M2W7D  35M8G7D 37M9W7D  45M7G7D 47M5W7D  57M9G7D 57M9W7D  64M3G7D 67M4W7D  77M1G7D 77M5W7D  85M7G7D 87M5W7D  96M4G7D 97M5W7D  12M9G7D 13M6W7D  SCS 30kHz:  8M58G7D 8M60W7D  12M9G7D 13M6W7D  12M9G7D 13M6W7D  12M9G7D 13M6W7D  17M8G7D 13M6W7D  17M8G7D 13M6W7D  17M8G7D 13M6W7D  17M8G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  85M6G7D 37M9W7D  SCS 30kHz:  8M60G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 87M5W7D  12M8G7D 13M6W7D  17M2G7D 77M5W7D  8M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  13M8G7D 13M6W7D  13M8G7D 13M6W7D  13M8G7D 13M8W7D  35M8G7D 37M8W7D  45M8G7D 37M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | NR Band n71         | SCS 15kHz: |         |          |   |
| 13M5G7D 14M1W7D 17M9G7D 18M9W7D SCS 30kHz:  8M61G7D 8M59W7D 12M9G7D 13M6W7D 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M5W7D 57M9G7D 57M9W7D 64M3G7D 67M4W7D 77M1G7D 77M5W7D 85M7G7D 87M5W7D 96M4G7D 97M5W7D 12M9G7D 13M6W7D 12M9G7D 13M6W7D 12M9G7D 13M6W7D 12M9G7D 13M6W7D 17M8G7D 18M2W7D 35M8G7D 37M9W7D 64M3G7D 67M4W7D 77M1G7D 77M5W7D 85M7G7D 87M5W7D 96M4G7D 97M5W7D 5CS 30kHz: 8M58G7D 8M60W7D 12M9G7D 13M6W7D 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M6W7D 57M9G7D 57M8W7D 64M3G7D 67M4W7D 77M2G7D 77M5W7D 86M0G7D 87M5W7D 96M2G7D 97M4W7D SCS 30kHz: 8M60G7D 8M60W7D 12M8G7D 13M6W7D 13M8G7D 13M6W7D 13M8G7D 13M6W7D 13M8G7D 13M8W7D 35M8G7D 37M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                     | 4M48G7D    | 4M47W7D |          |   |
| 17M9G7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                     | 8M94G7D    | 9M29W7D |          |   |
| SCS 30kHz:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                     | 13M5G7D    | 14M1W7D |          |   |
| RM61G7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                     | 17M9G7D    | 18M9W7D |          |   |
| NR Band n77 (3700-3980 MHz)  NR Band n77 (3700-3980 MHz)  12M9G7D 13M6W7D  35M8G7D 37M9W7D  45M7G7D 47M5W7D  57M9G7D 57M9W7D  64M3G7D 67M4W7D  77M1G7D 77M5W7D  85M7G7D 87M5W7D  96M4G7D 97M5W7D  SCS 30kHz:  8M58G7D 8M60W7D  12M9G7D 13M6W7D  12M9G7D 13M6W7D  17M8G7D 18M2W7D  35M8G7D 37M9W7D  NR Band n78 (3450-3550 MHz)  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  NR Band n78 (3700-3800 MHz)  NR Band n78 (3700-3800 MHz)  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 37M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                     | SCS 30kHz: |         |          |   |
| NR Band n77 (3700-3980 MHz)  NR Band n77 (3700-3980 MHz)  45M7G7D 47M5W7D  57M9G7D 57M9W7D  64M3G7D 67M4W7D  77M1G7D 77M5W7D  85M7G7D 87M5W7D  85M7G7D 87M5W7D  96M4G7D 97M5W7D  SCS 30kHz:  8M58G7D 8M60W7D  12M9G7D 13M6W7D  17M8G7D 18M2W7D  35M8G7D 37M9W7D  NR Band n78 (3450-3550 MHz)  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 87M5W7D  96M2G7D 97M4W7D  NR Band n78 (3700-3800 MHz)  17M8G7D 18M3W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 37M8W7D  45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                     | 8M61G7D    | 8M59W7D |          |   |
| NR Band n77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                     | 12M9G7D    | 13M6W7D |          |   |
| NR Band n77 (3700-3980 MHz)  45M7G7D 47M5W7D  57M9G7D 57M9W7D  64M3G7D 67M4W7D  77M1G7D 77M5W7D  85M7G7D 87M5W7D  96M4G7D 97M5W7D  96M4G7D 97M5W7D  96S 30kHz:  8M58G7D 8M60W7D  12M9G7D 13M6W7D  17M8G7D 18M2W7D  35M8G7D 37M9W7D  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  96M2G7D 97M4W7D  NR Band n78 (3700-3800 MHz)  NR Band n78 (3700-3800 MHz)  12M8G7D 18M3W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  15M8G7D 37M8W7D  45M8G7D 37M8W7D  45M8G7D 37M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                     | 17M8G7D    | 18M2W7D |          |   |
| (3700-3980 MHz)  45M/G/D 47M5W7D  57M9G7D 57M9W7D  64M3G7D 67M4W7D  77M1G7D 77M5W7D  85M7G7D 87M5W7D  96M4G7D 97M5W7D  SCS 30kHz:  8M58G7D 8M60W7D  12M9G7D 13M6W7D  17M8G7D 18M2W7D  35M8G7D 37M9W7D  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  NR Band n78 (3700-3800 MHz)  17M8G7D 18M3W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  17M8G7D 13M6W7D  17M8G7D 13M6W7D  17M8G7D 13M6W7D  17M8G7D 13M8W7D  35M8G7D 37M8W7D  45M8G7D 37M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                     | 35M8G7D    | 37M9W7D |          |   |
| 57M9G7D 57M9W7D 64M3G7D 67M4W7D 77M1G7D 77M5W7D 85M7G7D 87M5W7D 96M4G7D 97M5W7D 96M4G7D 97M5W7D 96M4G7D 97M5W7D 96M4G7D 97M5W7D 12M9G7D 13M6W7D 12M9G7D 13M6W7D 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M6W7D 57M9G7D 57M8W7D 64M3G7D 67M4W7D 77M2G7D 77M5W7D 86M0G7D 87M5W7D 96M2G7D 97M4W7D 96M2G7D 97M4W7D SCS 30kHz: 8M60G7D 8M60W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 17M8G7D 18M3W7D 35M8G7D 37M8W7D 45M8G7D 37M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                     | 45M7G7D    | 47M5W7D |          |   |
| 77M1G7D 77M5W7D 85M7G7D 87M5W7D 96M4G7D 97M5W7D 96M4G7D 97M5W7D SCS 30kHz: 8M58G7D 8M60W7D 12M9G7D 13M6W7D 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M6W7D 57M9G7D 57M8W7D 64M3G7D 67M4W7D 77M2G7D 77M5W7D 86M0G7D 87M5W7D 96M2G7D 97M4W7D 96M2G7D 97M4W7D SCS 30kHz: 8M60G7D 8M60W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 17M8G7D 18M3W7D 35M8G7D 37M8W7D 45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | (0700 0000 Wil 12)  | 57M9G7D    | 57M9W7D |          |   |
| 85M7G7D 87M5W7D 96M4G7D 97M5W7D SCS 30kHz: 8M58G7D 8M60W7D 12M9G7D 13M6W7D 17M8G7D 18M2W7D 35M8G7D 37M9W7D 45M7G7D 47M6W7D 57M9G7D 57M8W7D 64M3G7D 67M4W7D 77M2G7D 77M5W7D 86M0G7D 87M5W7D 96M2G7D 97M4W7D SCS 30kHz: 8M60G7D 8M60W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 37M8W7D 35M8G7D 37M8W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 17M8G7D 18M3W7D 35M8G7D 37M8W7D 45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                     | 64M3G7D    | 67M4W7D |          |   |
| 96M4G7D 97M5W7D  SCS 30kHz:  8M58G7D 8M60W7D  12M9G7D 13M6W7D  17M8G7D 18M2W7D  35M8G7D 37M9W7D  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  17M8G7D 13M8W7D  45M8G7D 37M8W7D  45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                     | 77M1G7D    | 77M5W7D |          |   |
| SCS 30kHz:  8M58G7D 8M60W7D  12M9G7D 13M6W7D  17M8G7D 18M2W7D  35M8G7D 37M9W7D  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  12M8G7D 37M8W7D  35M8G7D 37M8W7D  45M8G7D 37M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                     | 85M7G7D    | 87M5W7D |          |   |
| SM58G7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                     | 96M4G7D    | 97M5W7D |          |   |
| NR Band n78 (3450-3550 MHz)  NR Band n78 (3450-3550 MHz)  12M9G7D 18M2W7D  35M8G7D 37M9W7D  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 37M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                     | SCS 30kHz: |         |          |   |
| NR Band n78 (3450-3550 MHz)  NR Band n78 (3450-3550 MHz)  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  17M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                     | 8M58G7D    | 8M60W7D |          |   |
| NR Band n78 (3450-3550 MHz)  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 37M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                     | 12M9G7D    | 13M6W7D |          |   |
| NR Band n78 (3450-3550 MHz)  45M7G7D 47M6W7D 57M8W7D 64M3G7D 67M4W7D 77M2G7D 77M5W7D 86M0G7D 87M5W7D 96M2G7D 97M4W7D SCS 30kHz:  8M60G7D 8M60W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 12M8G7D 13M6W7D 45M8G7D 37M8W7D 45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                     | 17M8G7D    | 18M2W7D |          |   |
| (3450-3550 MHz)  45M7G7D 47M6W7D  57M9G7D 57M8W7D  64M3G7D 67M4W7D  77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                     | 35M8G7D    | 37M9W7D |          |   |
| 57M9G7D 57M8W7D 64M3G7D 67M4W7D 77M2G7D 77M5W7D 86M0G7D 87M5W7D 96M2G7D 97M4W7D SCS 30kHz: 8M60G7D 8M60W7D 12M8G7D 13M6W7D 17M8G7D 18M3W7D 35M8G7D 37M8W7D 45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                     | 45M7G7D    | 47M6W7D |          |   |
| 77M2G7D 77M5W7D  86M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | (5.00 0000 Wil 12)  | 57M9G7D    | 57M8W7D |          |   |
| 86M0G7D 87M5W7D  96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                     | 64M3G7D    | 67M4W7D |          |   |
| 96M2G7D 97M4W7D  SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                     | 77M2G7D    | 77M5W7D |          |   |
| SCS 30kHz:  8M60G7D 8M60W7D  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                     | 86M0G7D    | 87M5W7D |          |   |
| 8M60G7D 8M60W7D  12M8G7D 13M6W7D  12M8G7D 13M6W7D  17M8G7D 18M3W7D  35M8G7D 37M8W7D  45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                     | 96M2G7D    | 97M4W7D |          | 1 |
| NR Band n78<br>(3700-3800 MHz) 12M8G7D 13M6W7D<br>17M8G7D 18M3W7D<br>35M8G7D 37M8W7D<br>45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                     | SCS 30kHz: |         |          |   |
| NR Band n78<br>(3700-3800 MHz) 17M8G7D 18M3W7D<br>35M8G7D 37M8W7D<br>45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                     | 8M60G7D    | 8M60W7D |          |   |
| (3700-3800 MHz) 17M8G7D 18M3W7D<br>35M8G7D 37M8W7D<br>45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                     | 12M8G7D    | 13M6W7D |          |   |
| 35M8G7D 37M8W7D<br>45M8G7D 47M4W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                     | 17M8G7D    | 18M3W7D |          |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | (37 00 0000 Wil 12) | 35M8G7D    | 37M8W7D |          |   |
| 57M9G7D 57M7W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                     | 45M8G7D    | 47M4W7D |          |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                     | 57M9G7D    | 57M7W7D |          |   |



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| 64M2G7D 67M5W7D 77M1G7D 77M4W7D 85M7G7D 87M5W7D 96M4G7D 97M5W7D 15MHz+5MHz: 19M0G7D 19M0W7D 10MHz+10MHz: 19M0G7D 19M0W7D 20MHz+20MHz: 37M6G7D 37M6W7D 40MHz+80MHz: 117M0G7D 116M8W7D 40MHz+100MHz: 136M0G7D 135M9W7D 50MHz+60MHz: 107M3G7D 107M2W7D 50MHz+80MHz: 1126M2G7D 126M3W7D 50MHz+100MHz: 126M2G7D 126M3W7D 50MHz+100MHz: 145M4G7D 145M6W7D 60MHz+60MHz: 117M4G7D 117M4W7D 60MHz+80MHz: 117M4G7D 117M4W7D 60MHz+80MHz: 117M4G7D 117M4W7D 60MHz+80MHz: 1136M6G7D 136M6W7D 60MHz+80MHz: 1136M6G7D 136M6W7D 60MHz+80MHz: |             | raye. 32 01 00    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|
| 85M7G7D 87M5W7D 96M4G7D 97M5W7D  15MHz+5MHz: 19M0G7D 19M0W7D  10MHz+10MHz: 19M0G7D 19M0W7D  20MHz+20MHz: 37M6G7D 37M6W7D  40MHz+80MHz: 117M0G7D 116M8W7D  40MHz+100MHz: 136M0G7D 135M9W7D  50MHz+60MHz: 107M3G7D 107M2W7D  50MHz+80MHz: 126M2G7D 126M3W7D  MR CA_n41C  NR CA_n41C  85M7G7D 136M6W7D  60MHz+60MHz: 117M4G7D 115M6W7D  60MHz+60MHz: 117M4G7D 145M6W7D  60MHz+80MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 117M4G7D 117M4W7D                                                           |             | 64M2G7D 67M5W7D   |
| 96M4G7D 97M5W7D  15MHz+5MHz: 19M0G7D 19M0W7D  10MHz+10MHz: 19M0G7D 19M0W7D  20MHz+20MHz: 37M6G7D 37M6W7D  40MHz+80MHz: 117M0G7D 116M8W7D  40MHz+100MHz: 136M0G7D 135M9W7D  50MHz+60MHz: 107M3G7D 107M2W7D  50MHz+80MHz: 126M2G7D 126M3W7D  50MHz+100MHz: 1145M4G7D 145M6W7D  60MHz+60MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 1136M6G7D 136M6W7D                                                                                                                  |             | 77M1G7D 77M4W7D   |
| NR CA_n5B  15MHz+5MHz: 19M0G7D 19M0W7D  10MHz+10MHz: 19M0G7D 19M0W7D  20MHz+20MHz: 37M6G7D 37M6W7D  40MHz+80MHz: 117M0G7D 116M8W7D  40MHz+100MHz: 136M0G7D 135M9W7D  50MHz+60MHz: 107M3G7D 107M2W7D  50MHz+80MHz: 126M2G7D 126M3W7D  50MHz+100MHz: 145M4G7D 145M6W7D  60MHz+80MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 1136M6G7D 136M6W7D                                                                                                                                                         |             | 85M7G7D 87M5W7D   |
| NR CA_n5B  19M0G7D 19M0W7D  10MHz+10MHz: 19M0G7D 19M0W7D  20MHz+20MHz: 37M6G7D 37M6W7D  40MHz+80MHz: 117M0G7D 116M8W7D  40MHz+100MHz: 136M0G7D 135M9W7D  50MHz+60MHz: 107M3G7D 107M2W7D  50MHz+80MHz: 126M2G7D 126M3W7D  50MHz+100MHz: 126M2G7D 145M6W7D  60MHz+60MHz: 145M4G7D 145M6W7D  60MHz+80MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 136M6G7D 136M6W7D                                                                                                                                                                      |             | 96M4G7D 97M5W7D   |
| 19M0G7D 19M0W7D  10MHz+10MHz: 19M0G7D 19M0W7D  20MHz+20MHz: 37M6G7D 37M6W7D  40MHz+80MHz: 117M0G7D 116M8W7D  40MHz+100MHz: 136M0G7D 135M9W7D  50MHz+60MHz: 107M3G7D 107M2W7D  50MHz+80MHz: 126M2G7D 126M3W7D  50MHz+100MHz: 145M4G7D 145M6W7D  60MHz+60MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 117M4G7D 117M4W7D                                                                                                                                                                                 | ND CA pED   | 15MHz+5MHz:       |
| NR CA_n7B  19M0G7D 19M0W7D  20MHz+20MHz:  37M6G7D 37M6W7D  40MHz+80MHz:  117M0G7D 116M8W7D  40MHz+100MHz:  136M0G7D 135M9W7D  50MHz+60MHz:  107M3G7D 107M2W7D  50MHz+80MHz:  126M2G7D 126M3W7D  50MHz+100MHz:  145M4G7D 145M6W7D  60MHz+60MHz:  117M4G7D 117M4W7D  60MHz+80MHz:  136M6G7D 136M6W7D                                                                                                                                                                                                                            | INR CA_IISB | 19M0G7D 19M0W7D   |
| NR CA_n7B  20MHz+20MHz: 37M6G7D 37M6W7D  40MHz+80MHz: 117M0G7D 116M8W7D  40MHz+100MHz: 136M0G7D 135M9W7D  50MHz+60MHz: 107M3G7D 107M2W7D  50MHz+80MHz: 126M2G7D 126M3W7D  50MHz+100MHz: 145M4G7D 145M6W7D  60MHz+60MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 1136M6G7D 136M6W7D                                                                                                                                                                                                                                                    |             | 10MHz+10MHz:      |
| 20MHz+20MHz: 37M6G7D 37M6W7D  40MHz+80MHz: 117M0G7D 116M8W7D  40MHz+100MHz: 136M0G7D 135M9W7D  50MHz+60MHz: 107M3G7D 107M2W7D  50MHz+80MHz: 126M2G7D 126M3W7D  50MHz+100MHz: 145M4G7D 145M6W7D  60MHz+60MHz: 117M4G7D 117M4W7D  60MHz+80MHz: 136M6G7D 136M6W7D                                                                                                                                                                                                                                                                | ND CA = 7D  | 19M0G7D 19M0W7D   |
| ### A0MHz+80MHz:    117M0G7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NR CA_n/B   | 20MHz+20MHz:      |
| 117M0G7D 116M8W7D  40MHz+100MHz:  136M0G7D 135M9W7D  50MHz+60MHz:  107M3G7D 107M2W7D  50MHz+80MHz:  126M2G7D 126M3W7D  50MHz+100MHz:  145M4G7D 145M6W7D  60MHz+60MHz:  117M4G7D 117M4W7D  60MHz+80MHz:  136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                     |             | 37M6G7D 37M6W7D   |
| ### A0MHz+100MHz:    136M0G7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | 40MHz+80MHz:      |
| 136M0G7D 135M9W7D  50MHz+60MHz:  107M3G7D 107M2W7D  50MHz+80MHz:  126M2G7D 126M3W7D  50MHz+100MHz:  145M4G7D 145M6W7D  60MHz+60MHz:  117M4G7D 117M4W7D  60MHz+80MHz:  136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                                                       |             | 117M0G7D 116M8W7D |
| 50MHz+60MHz:  107M3G7D 107M2W7D  50MHz+80MHz:  126M2G7D 126M3W7D  50MHz+100MHz:  145M4G7D 145M6W7D  60MHz+60MHz:  117M4G7D 117M4W7D  60MHz+80MHz:  136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                                                                          |             | 40MHz+100MHz:     |
| 107M3G7D 107M2W7D  50MHz+80MHz:  126M2G7D 126M3W7D  50MHz+100MHz:  145M4G7D 145M6W7D  60MHz+60MHz:  117M4G7D 117M4W7D  60MHz+80MHz:  136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                                                                                        |             | 136M0G7D 135M9W7D |
| 50MHz+80MHz:  126M2G7D 126M3W7D  50MHz+100MHz:  145M4G7D 145M6W7D  60MHz+60MHz:  117M4G7D 117M4W7D  60MHz+80MHz:  136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                                                                                                           |             | 50MHz+60MHz:      |
| 126M2G7D 126M3W7D  50MHz+100MHz:  145M4G7D 145M6W7D  60MHz+60MHz:  117M4G7D 117M4W7D  60MHz+80MHz:  136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                                                                                                                         |             | 107M3G7D 107M2W7D |
| NR CA_n41C    50MHz+100MHz:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | 50MHz+80MHz:      |
| NR CA_n41C  145M4G7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             | 126M2G7D 126M3W7D |
| NR CA_n41C  60MHz+60MHz:  117M4G7D 117M4W7D  60MHz+80MHz:  136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | 50MHz+100MHz:     |
| NR CA_n41C  117M4G7D 117M4W7D  60MHz+80MHz:  136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | 145M4G7D 145M6W7D |
| 117M4G7D 117M4W7D<br>60MHz+80MHz:<br>136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ND CA - 14C | 60MHz+60MHz:      |
| 136M6G7D 136M6W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NR CA_1141C | 117M4G7D 117M4W7D |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | 60MHz+80MHz:      |
| 60MHz+100MHz:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | 136M6G7D 136M6W7D |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             | 60MHz+100MHz:     |
| 155M5G7D 155M5W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 155M5G7D 155M5W7D |
| 80MHz+60MHz:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | 80MHz+60MHz:      |
| 136M9G7D 136M8W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 136M9G7D 136M8W7D |
| 80MHz+100MHz:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             | 80MHz+100MHz:     |
| 175M1G7D 175M1W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 175M1G7D 175M1W7D |
| 80MHz+80MHz:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             | 80MHz+80MHz:      |
| 155M9G7D 156M0W7D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             | 155M9G7D 156M0W7D |



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### 3.9 Test Frequencies

#### 3.9.1 Reference test frequencies for NR operating band n2

3.9.1.1 Test frequencies for NR operating band n2 and SCS 15 kHz

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|---------------------------|-----------------------|
|              |          | Low  | 1932.5                  | 386500                    |                       |
|              | Downlink | Mid  | 1960                    | 392000                    | 15                    |
| 5            |          | High | 1987.5                  | 397500                    | ]                     |
| 5            |          | Low  | 1852.5                  | 370500                    |                       |
|              | Uplink   | Mid  | 1880                    | 376000                    | -                     |
|              |          | High | 1907.5                  | 381500                    |                       |
|              |          | Low  | 1935                    | 387000                    |                       |
|              | Downlink | Mid  | 1960                    | 392000                    | 15                    |
| 10           |          | High | 1985                    | 397000                    |                       |
| 10           |          | Low  | 1855                    | 371000                    |                       |
|              | Uplink   | Mid  | 1880                    | 376000                    | -                     |
|              |          | High | 1905                    | 381000                    |                       |
|              |          | Low  | 1937.5                  | 387500                    |                       |
|              | Downlink | Mid  | 1960                    | 392000                    | 15                    |
| 15           |          | High | 1982.5                  | 396500                    |                       |
| 13           |          | Low  | 1857.5                  | 371500                    |                       |
|              | Uplink   | Mid  | 1880                    | 376000                    | _                     |
|              |          | High | 1902.5                  | 380500                    |                       |
|              |          | Low  | 1940                    | 388000                    |                       |
| 20           | Downlink | Mid  | 1960                    | 392000                    | 15                    |
|              |          | High | 1980                    | 396000                    |                       |
| 20           |          | Low  | 1860                    | 372000                    |                       |
|              | Uplink   | Mid  | 1880                    | 376000                    | _                     |
|              |          | High | 1900                    | 380000                    |                       |



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### 3.9.2 Reference test frequencies for NR operating band n5

3.9.2.1 Test frequencies for NR operating band n5 and SCS 15 kHz

| CBW<br>[MHz] | Range    | r operating a | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|---------------|-------------------------|---------------------------|-----------------------|
|              |          | Low           | 871.5                   | 174300                    |                       |
|              | Downlink | Mid           | 881.5                   | 176300                    | 15                    |
| 5            |          | High          | 891.5                   | 178300                    |                       |
| 3            |          | Low           | 826.5                   | 165300                    |                       |
|              | Uplink   | Mid           | 836.5                   | 167300                    | -                     |
|              |          | High          | 846.5                   | 169300                    |                       |
|              |          | Low           | 874                     | 174800                    |                       |
|              | Downlink | Mid           | 881.5                   | 176300                    | 15                    |
| 10           |          | High          | 889                     | 177800                    |                       |
| 10           |          | Low           | 829                     | 165800                    |                       |
|              | Uplink   | Mid           | 836.5                   | 167300                    | -                     |
|              |          | High          | 844                     | 168800                    |                       |
|              |          | Low           | 876.5                   | 175300                    |                       |
|              | Downlink | Mid           | 881.5                   | 176300                    | 15                    |
| 15           |          | High          | 886.5                   | 177300                    |                       |
| 15           |          | Low           | 831.5                   | 166300                    |                       |
|              | Uplink   | Mid           | 836.5                   | 167300                    | -                     |
|              |          | High          | 841.5                   | 168300                    |                       |
|              | Downlink | Low           | 879                     | 175800                    |                       |
| 20           |          | Mid           | 881.5                   | 176300                    | 15                    |
|              |          | High          | 884                     | 176800                    |                       |
| 20           |          | Low           | 834                     | 166800                    |                       |
|              | Uplink   | Mid           | 836.5                   | 167300                    | -                     |
|              |          | High          | 839                     | 167800                    |                       |



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### 3.9.3 Reference test frequencies for NR operating band n7

3.9.3.1 Test frequencies for NR operating band n7 and SCS 15 kHz

| Bandwidth | Range    |      | Carrier centre | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|-----------|----------|------|----------------|---------------------------|-----------------------|
| [MHz]     |          |      | [MHz]          |                           |                       |
| 5 -       | Downlink | Low  | 2622.5         | 524500                    | 15                    |
|           |          | Mid  | 2655           | 531000                    |                       |
|           |          | High | 2687.5         | 537500                    |                       |
|           | Uplink   | Low  | 2502.5         | 500500                    |                       |
|           |          | Mid  | 2535           | 507000                    |                       |
|           |          | High | 2567.5         | 513500                    |                       |
|           | Downlink | Low  | 2625           | 525000                    |                       |
|           |          | Mid  | 2655           | 531000                    | 15                    |
| 10        |          | High | 2685           | 537000                    |                       |
| 10        | Uplink   | Low  | 2505           | 501000                    |                       |
|           |          | Mid  | 2535           | 507000                    |                       |
|           |          | High | 2565           | 513000                    |                       |
|           | Downlink | Low  | 2627.5         | 525500                    | 15                    |
|           |          | Mid  | 2655           | 531000                    |                       |
| 15        |          | High | 2682.5         | 536500                    |                       |
| 15        | Uplink   | Low  | 2507.5         | 501500                    |                       |
|           |          | Mid  | 2535           | 507000                    |                       |
|           |          | High | 2562.5         | 512500                    |                       |
| 20 -      | Downlink | Low  | 2630           | 526000                    | 15                    |
|           |          | Mid  | 2655           | 531000                    |                       |
|           |          | High | 2680           | 536000                    |                       |
|           | Uplink   | Low  | 2510           | 502000                    |                       |
|           |          | Mid  | 2535           | 507000                    |                       |
|           |          | High | 2560           | 512000                    |                       |



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### Reference test frequencies for NR operating band n12

3.9.4.1 Test frequencies for NR operating band n12 and SCS 15 kHz

| Bandwidth<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------------|----------|------|-------------------------|---------------------------|-----------------------|
|                    | Downlink | Low  | 731.5                   | 146300                    | 15                    |
|                    |          | Mid  | 737.5                   | 147500                    |                       |
| 5                  |          | High | 743.5                   | 148700                    |                       |
| 5                  | Uplink   | Low  | 701.5                   | 140300                    |                       |
|                    |          | Mid  | 707.5                   | 141500                    |                       |
|                    |          | High | 713.5                   | 142700                    |                       |
|                    | Downlink | Low  | 734                     | 146800                    | 15                    |
|                    |          | Mid  | 737.5                   | 147500                    |                       |
| 10                 |          | High | 741                     | 148200                    |                       |
| 10                 |          | Low  | 704                     | 140800                    |                       |
|                    | Uplink   | Mid  | 707.5                   | 141500                    |                       |
|                    |          | High | 711                     | 142200                    |                       |
|                    | Downlink | Low  | 736.5                   | 147300                    | 15                    |
|                    |          | Mid  | 737.5                   | 147500                    |                       |
| 15                 |          | High | 738.5                   | 147700                    |                       |
| 15                 |          | Low  | 706.5                   | 141300                    |                       |
|                    | Uplink   | Mid  | 707.5                   | 141500                    | <br>                  |
|                    |          | High | 708.5                   | 141700                    |                       |

#### 3.9.5 Reference test frequencies for NR operating band n13

Test frequencies for NR operating band n13 and SCS 15 kHz

| Bandwidth<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------------|----------|------|-------------------------|---------------------------|-----------------------|
|                    |          | Low  | 779.5                   | 155900                    |                       |
| 5 -                | Downlink | Mid  | 782                     | 156400                    | 15                    |
|                    |          | High | 784.5                   | 156900                    |                       |
|                    | Uplink   | Low  | 748.5                   | 149700                    |                       |
|                    |          | Mid  | 751                     | 150200                    |                       |
|                    |          | High | 753.5                   | 150700                    |                       |
| 10 -               | Downlink | Low  | 1                       | 1                         | 15                    |
|                    |          | Mid  | 779.5                   | 156400                    |                       |
|                    |          | High | 1                       | 1                         |                       |
|                    | Uplink   | Low  | 1                       | 1                         |                       |
|                    |          | Mid  | 751                     | 150200                    |                       |
|                    |          | High | 1                       | 1                         |                       |



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### 3.9.6 Reference test frequencies for NR operating band n14

3.9.6.1 Test frequencies for NR operating band n14 and SCS 15 kHz

| Bandwidth<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------------|----------|------|-------------------------|---------------------------|-----------------------|
|                    |          | Low  | 760.5                   | 151200                    |                       |
|                    | Downlink | Mid  | 763                     | 152600                    | 15                    |
| 5                  |          | High | 765.5                   | 153100                    |                       |
| 5                  |          | Low  | 790.5                   | 158100                    |                       |
|                    | Uplink   | Mid  | 793                     | 158600                    |                       |
|                    |          | High | 795.5                   | 159100                    |                       |
|                    |          | Low  | 1                       | 1                         |                       |
|                    | Downlink | Mid  | 763                     | 152600                    | 15                    |
| 10                 |          | High | 1                       | 1                         |                       |
| 10                 |          | Low  | 1                       | 1                         |                       |
|                    | Uplink   | Mid  | 763                     | 152600                    |                       |
|                    |          | High | 1                       | 1                         |                       |

### 3.9.7 Reference test frequencies for NR operating band n25

3.9.7.1 Test frequencies for NR operating band n25 and SCS 15 kHz

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN]                                                              | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|----------------------------------------------------------------------------------------|-----------------------|
|              |          | Low  | 1932.5                  | 386500                                                                                 |                       |
|              | Downlink | Mid  | 1962.5                  | 392500                                                                                 | 15                    |
| 5            |          | High | 1992.5                  | 398500                                                                                 |                       |
| 5            |          | Low  | 1852.5                  | 370500                                                                                 |                       |
|              | Uplink   | Mid  | 1882.5                  | 376500                                                                                 | _                     |
|              |          | High | 1912.5                  | 382500                                                                                 |                       |
|              |          | Low  | 1935                    | 387000                                                                                 |                       |
|              | Downlink | Mid  | 1962.5                  | 392500                                                                                 | 15                    |
| 10           |          | High | 1990                    | 387000<br>392500<br>398000<br>371000<br>376500<br>382000<br>387500<br>392500<br>397500 |                       |
| 10           |          | Low  | 1855                    | 371000                                                                                 |                       |
|              | Uplink   | Mid  | 1882.5                  | 376500                                                                                 | -                     |
|              |          | High | 1910                    | 382000                                                                                 | 1                     |
|              |          | Low  | 1937.5                  | 387500                                                                                 | 15                    |
|              | Downlink | Mid  | 1962.5                  | 392500                                                                                 |                       |
| 15           |          | High | 1987.5                  | 398000<br>371000<br>376500<br>382000<br>387500<br>392500                               |                       |
| 15           |          | Low  | 1857.5                  | 371500                                                                                 |                       |
|              | Uplink   | Mid  | 1882.5                  | 376500                                                                                 | -                     |
|              |          | High | 1907.5                  | 381500                                                                                 |                       |
|              |          | Low  | 1940                    | 388000                                                                                 |                       |
|              | Downlink | Mid  | 1962.5                  | 392500                                                                                 | 15                    |
| 20           |          | High | 1985                    | 397000                                                                                 |                       |
| 20           |          | Low  | 1860                    | 372000                                                                                 |                       |
|              | Uplink   | Mid  | 1882.5                  | 376500                                                                                 | 1 -                   |
|              |          | High | 1905                    | 381000                                                                                 |                       |



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### 3.9.8 Reference test frequencies for NR operating band n26

### 3.9.8.1 Test frequencies for NR operating band n26 and SCS 15 kHz

#### 814-824:

| CBW<br>[MHz] | Range    | _    | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|---------------------------|-----------------------|
|              |          | Low  | 861.5                   | 172300                    |                       |
|              | Downlink | Mid  | 864                     | 172800                    | 15                    |
| 5            |          | High | 866.5                   | 173300                    |                       |
| 5            |          | Low  | 816.5                   | 163300                    |                       |
|              | Uplink   | Mid  | 819                     | 163800                    | -                     |
|              | ·        | High | 821.5                   | 164300                    |                       |
|              |          | Low  | 1                       | 1                         |                       |
|              | Downlink | Mid  | 864                     | 172800                    | 15                    |
| 10           |          | High | 1                       | 1                         |                       |
| 10           |          | Low  | 1                       | 1                         |                       |
|              | Uplink   | Mid  | 819                     | 163800                    |                       |
|              |          | High | 1                       | 1                         |                       |

#### 824-849:

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|---------------------------|-----------------------|
|              |          | Low  | 871.5                   | 174300                    |                       |
|              | Downlink | Mid  | 881.5                   | 176300                    | 15                    |
| 5            |          | High | 891.5                   | 178300                    |                       |
| 9            |          | Low  | 826.5                   | 165300                    |                       |
|              | Uplink   | Mid  | 836.5                   | 167300                    | -                     |
|              |          | High | 846.5                   | 169300                    |                       |
|              |          | Low  | 874                     | 174800                    |                       |
|              | Downlink | Mid  | 881.5                   | 176300                    | 15                    |
| 40           |          | High | 889                     | 177800                    | 1                     |
| 10           |          | Low  | 829                     | 165800                    |                       |
|              | Uplink   | Mid  | 836.5                   | 167300                    | ] -                   |
|              |          | High | 844                     | 168800                    |                       |
|              |          | Low  | 876.5                   | 175300                    |                       |
|              | Downlink | Mid  | 881.5                   | 176300                    | 15                    |
| 45           |          | High | 886.5                   | 177300                    |                       |
| 15           |          | Low  | 831.5                   | 166300                    |                       |
|              | Uplink   | Mid  | 836.5                   | 167300                    | -                     |
|              |          | High | 841.5                   | 168300                    |                       |
|              |          | Low  | 879                     | 175800                    |                       |
|              | Downlink | Mid  | 881.5                   | 176300                    | 15                    |
|              |          | High | 884                     | 176800                    |                       |
| 20           |          | Low  | 834                     | 166800                    |                       |
|              | Uplink   | Mid  | 836.5                   | 167300                    | 1                     |
|              | Оршк     | High | 839                     | 167800                    |                       |



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### 3.9.9 Reference test frequencies for NR operating band n30

3.9.9.1 Test frequencies for NR operating band n30 and SCS 15 kHz

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|---------------------------|-----------------------|
|              |          | Low  | 2352.5                  | 470500                    |                       |
|              | Downlink | Mid  | 2355                    | 471000                    | 15                    |
| 5            |          | High | 2357.5                  | 471500                    |                       |
| ) J          |          | Low  | 2307.5                  | 461500                    |                       |
|              | Uplink   | Mid  | 2310                    | 462000                    | _                     |
|              |          | High | 2312.5                  | 462500                    |                       |
|              |          | Low  | 2355                    | 471000                    |                       |
|              | Downlink | Mid  | 2355                    | 471000                    | 15                    |
| 10           |          | High | 2355                    | 471000                    | 1                     |
| 10           |          | Low  | 2310                    | 462000                    |                       |
|              | Uplink   | Mid  | 2310                    | 462000                    | ] -                   |
|              |          | High | 2310                    | 462000                    |                       |

### 3.9.10 Reference test frequencies for NR operating band n38

3.9.10.1 Test frequencies for NR operating band n38 and SCS 30 kHz

| Bandwidth [MHz] | Range     |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block<br>SCS<br>[kHz] |
|-----------------|-----------|------|-------------------------|---------------------------|--------------------------|
|                 | Downlink  | Low  | 2575                    | 515000                    |                          |
| 10              | &         | Mid  | 2595                    | 519000                    | 30                       |
|                 | Uplink    | High | 2615 523000             |                           |                          |
|                 | Downlink  | Low  | 2577.5                  | 515500                    | 30                       |
| 15              | &         | Mid  | 2595                    | 519000                    |                          |
|                 | Uplink    | High | 2612.5                  | 522500                    |                          |
|                 | Downlink  | Low  | 2580                    | 516000                    |                          |
| 20              | &         | Mid  | 2595                    | 519000                    | 30                       |
|                 | Uplink    | High | 2610                    | 522000                    |                          |
| 40              | Downlink  | Low  | 2590                    | 518000                    |                          |
|                 | William & | Mid  | 2595                    | 519000                    | 30                       |
| 40              | Uplink    | High | 2600                    | 520000                    | 30                       |



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## 3.9.11 Reference test frequencies for NR operating band n41 3.9.11.1 Test frequencies for NR operating band n41 and SCS 30 kHz

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre [ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|------------------------|-----------------------|
|              | Downlink | Low  | 2501.01                 | 500202                 |                       |
| 10           | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2685                    | 537000                 |                       |
|              | Downlink | Low  | 2503.5                  | 500700                 |                       |
| 15           | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2682.48                 | 536496                 | ]                     |
|              | Downlink | Low  | 2506.02                 | 501204                 |                       |
| 20           | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2670                    | 534000                 | 1                     |
|              | Downlink | Low  | 2511                    | 502200                 |                       |
| 30           | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2675                    | 535000                 | 1                     |
|              | Downlink | Low  | 2516.01                 | 503202                 |                       |
| 40           | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2670                    | 534000                 | 1                     |
|              | Downlink | Low  | 2521.02                 | 504204                 |                       |
| 50           | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2664.99                 | 532998                 | 1                     |
|              | Downlink | Low  | 2526                    | 505200                 |                       |
| 60           | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2659.98                 | 531996                 | 1                     |
|              | Downlink | Low  | 2536.02                 | 507204                 |                       |
| 80           | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2649.99                 | 529998                 | 1                     |
|              | Downlink | Low  | 2541                    | 508200                 |                       |
| 90           | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2644.98                 | 528996                 |                       |
|              | Downlink | Low  | 2546.01                 | 509202                 |                       |
| 100          | &        | Mid  | 2592.99                 | 518598                 | 30                    |
|              | Uplink   | High | 2640                    | 528000                 | 1                     |



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## 3.9.12 Reference test frequencies for NR operating band n66

3.9.12.1 Test frequencies for NR operating band n66 and SCS 15 kHz

| CBW   | Range            |        | Carrier centre | Carrier centre | SS block SCS |
|-------|------------------|--------|----------------|----------------|--------------|
| [MHz] | J                |        | [MHz]          | [ARFCN]        | [kHz]        |
| -     |                  | Low    | 2112.5         | 422500         |              |
|       | Downlink         | Mid    | 2145           | 429000         | 15           |
| 5     |                  | High   | 2177.5         | 435500         |              |
| 5     |                  | Low    | 1712.5         | 342500         |              |
|       | Uplink           | Mid    | 1745           | 349000         | _            |
|       | ·                | High   | 1777.5         | 355500         |              |
|       |                  | Low    | 2115           | 423000         |              |
|       | Downlink         | Mid    | 2145           | 429000         | 15           |
| 10    | High 2175 435000 | 435000 |                |                |              |
| 10    |                  | Low    | 1715           | 343000         |              |
|       | Uplink           | Mid    | 1745           | 349000         | _            |
|       |                  | High   | 1775           | 355000         |              |
|       |                  | Low    | 2117.5         | 423500         |              |
|       | Downlink         | Mid    | 2145           | 429000         | 15           |
| 45    |                  | High   | 2172.5         | 434500         |              |
| 15    |                  | Low    | 1717.5         | 343500         |              |
|       | Uplink           | Mid    | 1745           | 349000         | 7 -          |
|       | ·                | High   | 1772.5         | 354500         |              |
|       |                  | Low    | 2120           | 424000         |              |
|       | Downlink         | Mid    | 2145           | 429000         | 15           |
| 00    |                  | High   | 2170           | 434000         | ]            |
| 20    |                  | Low    | 1720           | 344000         |              |
|       | Uplink           | Mid    | 1745           | 349000         |              |
|       | ·                | High   | 1770           | 354000         |              |
|       |                  | Low    | 2122.5         | 424500         |              |
|       | Downlink         | Mid    | 2145           | 429000         | 15           |
| 05    |                  | High   | 2167.5         | 433500         |              |
| 25    |                  | Low    | 1722.5         | 344500         |              |
|       | Uplink           | Mid    | 1745           | 349000         | 7 -          |
|       | ·                | High   | 1767.5         | 353500         | 7            |
|       |                  | Low    | 2125           | 425000         |              |
|       | Downlink         | Mid    | 2145           | 429000         | 15           |
| 30    |                  | High   | 2165           | 433000         | 7            |
| 30    |                  | Low    | 1725           | 345000         |              |
|       | Uplink           | Mid    | 1745           | 349000         | ] -          |
|       |                  | High   | 1765           | 353000         | 7            |
|       |                  | Low    | 2130           | 426000         |              |
|       | Downlink         | Mid    | 2145           | 429000         | 15           |
| 40    |                  | High   | 2160           | 432000         | 7            |
| 40    |                  | Low    | 1730           | 346000         |              |
|       | Uplink           | Mid    | 1745           | 349000         | 7 -          |
|       | ,                | High   | 1760           | 352000         |              |



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#### 3.9.13 Reference test frequencies for NR operating band n70 3.9.13.1 Test frequencies for NR operating band n70 and SCS 15 kHz

| Bandwidth<br>[MHz] | Rang     | е    | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------------|----------|------|-------------------------|---------------------------|-----------------------|
|                    |          | Low  | 1997.5                  | 399500                    |                       |
|                    | Downlink | Mid  | 2002.5                  | 400500                    | 15                    |
| 5                  |          | High | 2007.5                  | 401500                    |                       |
| 5                  |          | Low  | 1697.5                  | 339500                    |                       |
|                    | Uplink   | Mid  | 1702.5                  | 340500                    |                       |
|                    |          | High | 1707.7                  | 341500                    |                       |
|                    |          | Low  | 2000                    | 400000                    |                       |
|                    | Downlink | Mid  | 2002.5                  | 400500                    | 15                    |
| 10                 |          | High | 2005                    | 401000                    |                       |
| 10                 |          | Low  | 1700                    | 340000                    |                       |
|                    | Uplink   | Mid  | 1702.5                  | 340500                    |                       |
|                    |          | High | 1705                    | 341000                    |                       |
|                    |          | Low  | 1                       | 1                         |                       |
| 15                 | Downlink | Mid  | 2002.5                  | 400500                    | 15                    |
|                    |          | High | 1                       | 1                         |                       |
|                    |          | Low  | 1                       | 1                         |                       |
|                    | Uplink   | Mid  | 1702.5                  | 340500                    | 1                     |
|                    |          | High | 1                       | 1                         |                       |

#### 3.9.14 Reference test frequencies for NR operating band n71 3.9.14.1 Test frequencies for NR operating band n71 and SCS 15 kHz

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|---------------------------|-----------------------|
|              |          | Low  | 619.5                   | 123900                    |                       |
|              | Downlink | Mid  | 634.5                   | 126900                    | 15                    |
| 5            |          | High | 649.5                   | 129900                    |                       |
| ) °          |          | Low  | 665.5                   | 133100                    |                       |
|              | Uplink   | Mid  | 680.5                   | 136100                    | _                     |
|              |          | High | 695.5                   | 139100                    |                       |
|              |          | Low  | 622                     | 124400                    |                       |
|              | Downlink | Mid  | 634.5                   | 126900                    | 15                    |
| 10           |          | High | 647                     | 129400                    |                       |
| 10           | Uplink   | Low  | 668                     | 133600                    |                       |
|              |          | Mid  | 680.5                   | 136100                    | _                     |
|              |          | High | 693                     | 138600                    |                       |
|              |          | Low  | 624.5                   | 124900                    | 15                    |
|              | Downlink | Mid  | 634.5                   | 126900                    |                       |
| 15           |          | High | 644.5                   | 128900                    |                       |
| 13           |          | Low  | 670.5                   | 134100                    |                       |
|              | Uplink   | Mid  | 680.5                   | 136100                    | -                     |
|              |          | High | 690.5                   | 138100                    |                       |
|              |          | Low  | 627                     | 125400                    |                       |
|              | Downlink | Mid  | 634.5                   | 126900                    | 15                    |
| 20           |          | High | 642                     | 128400                    |                       |
| 20           |          | Low  | 673                     | 134600                    |                       |
|              | Uplink   | Mid  | 680.5                   | 136100                    | 1 -                   |
|              |          | High | 688                     | 137600                    |                       |



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# 3.9.15 Reference test frequencies for NR operating band n77 3.9.15.1 Test frequencies for NR operating band n77 and SCS 30 kHz

#### 3700-3980:

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|---------------------------|-----------------------|
|              | Downlink | Low  | 3705                    | 647000                    |                       |
| 10           | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3975                    | 665000                    |                       |
|              | Downlink | Low  | 3707.52                 | 647168                    |                       |
| 15           | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3972.48                 | 664832                    |                       |
|              | Downlink | Low  | 3710.01                 | 647334                    |                       |
| 20           | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3969.99                 | 664666                    |                       |
|              | Downlink | Low  | 3720                    | 648000                    |                       |
| 40           | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3960                    | 664000                    |                       |
|              | Downlink | Low  | 3725.01                 | 648334                    |                       |
| 50           | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3954.99                 | 663666                    | 1                     |
|              | Downlink | Low  | 3730.02                 | 648668                    |                       |
| 60           | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3949.98                 | 663332                    | _                     |
|              | Downlink | Low  | 3735                    | 649000                    |                       |
| 70           | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3945                    | 663000                    | _                     |
|              | Downlink | Low  | 3740.01                 | 649334                    |                       |
| 80           | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3939.99                 | 662666                    | 1                     |
|              | Downlink | Low  | 3745.02                 | 649668                    |                       |
| 90           | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3934.98                 | 662332                    | ]                     |
|              | Downlink | Low  | 3750                    | 650000                    |                       |
| 100          | &        | Mid  | 3840                    | 656000                    | 30                    |
|              | Uplink   | High | 3930                    | 662000                    |                       |



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#### 3450-3550:

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|---------------------------|-----------------------|
|              | Downlink | Low  | 3455.01                 | 630334                    |                       |
| 10           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3545.01                 | 636334                    |                       |
|              | Downlink | Low  | 3457.5                  | 630500                    |                       |
| 15           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3542.49                 | 636166                    |                       |
|              | Downlink | Low  | 3460.02                 | 630668                    |                       |
| 20           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3540                    | 636000                    |                       |
|              | Downlink | Low  | 3470.01                 | 631334                    |                       |
| 40           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3530.01                 | 635334                    | 1                     |
|              | Downlink | Low  | 3475.02                 | 631668                    |                       |
| 50           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3525                    | 635000                    | 1                     |
|              | Downlink | Low  | 3480                    | 632000                    |                       |
| 60           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3519.99                 | 634666                    | 1                     |
|              | Downlink | Low  | 3485.01                 | 632334                    |                       |
| 70           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3515.01                 | 634334                    | 1                     |
|              | Downlink | Low  | 3490.02                 | 632668                    |                       |
| 80           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3510                    | 634000                    | 7                     |
|              | Downlink | Low  | 3495                    | 633000                    |                       |
| 90           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3504.99                 | 633666                    | 7                     |
|              | Downlink | Low  | \                       | \                         |                       |
| 100          | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | \                       | \                         | 1                     |



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### 3.9.16 Reference test frequencies for NR operating band n78 3.9.16.1 Test frequencies for NR operating band n78 and SCS 30 kHz

#### 3700-3800:

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|---------------------------|-----------------------|
|              | Downlink | Low  | 3705                    | 647000                    |                       |
| 10           | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 3795                    | 653000                    |                       |
|              | Downlink | Low  | 3707.52                 | 647168                    |                       |
| 15           | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 3792.48                 | 652832                    |                       |
|              | Downlink | Low  | 3710.01                 | 647334                    |                       |
| 20           | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 3789.99                 | 652666                    |                       |
|              | Downlink | Low  | 3720                    | 648000                    |                       |
| 40           | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 3780                    | 652000                    |                       |
|              | Downlink | Low  | 3725.01                 | 648334                    |                       |
| 50           | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 3774.99                 | 651666                    | 1                     |
|              | Downlink | Low  | 3730.02                 | 648668                    |                       |
| 60           | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 3769.98                 | 651332                    | 1                     |
|              | Downlink | Low  | 3735                    | 649000                    |                       |
| 70           | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 3765                    | 651000                    | _                     |
|              | Downlink | Low  | 3740.01                 | 649334                    |                       |
| 80           | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 3759.99                 | 650666                    |                       |
|              | Downlink | Low  | 3745.02                 | 649668                    |                       |
| 90           | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 3754.98                 | 650332                    |                       |
|              | Downlink | Low  | 1                       | 1                         |                       |
| 100          | &        | Mid  | 3750                    | 650000                    | 30                    |
|              | Uplink   | High | 1                       | 1                         | 7                     |



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#### 3450-3550:

| CBW<br>[MHz] | Range    |      | Carrier centre<br>[MHz] | Carrier centre<br>[ARFCN] | SS block SCS<br>[kHz] |
|--------------|----------|------|-------------------------|---------------------------|-----------------------|
|              | Downlink | Low  | 3455.01                 | 630334                    |                       |
| 10           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3545.01                 | 636334                    |                       |
|              | Downlink | Low  | 3457.5                  | 630500                    |                       |
| 15           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3542.49                 | 636166                    |                       |
|              | Downlink | Low  | 3460.02                 | 630668                    |                       |
| 20           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3540                    | 636000                    | 1                     |
|              | Downlink | Low  | 3470.01                 | 631334                    |                       |
| 40           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3530.01                 | 635334                    | 1                     |
|              | Downlink | Low  | 3475.02                 | 631668                    |                       |
| 50           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3525                    | 635000                    | 1                     |
|              | Downlink | Low  | 3480                    | 632000                    |                       |
| 60           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3519.99                 | 634666                    | 1                     |
|              | Downlink | Low  | 3485.01                 | 632334                    |                       |
| 70           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3515.01                 | 634334                    | 1                     |
|              | Downlink | Low  | 3490.02                 | 632668                    |                       |
| 80           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3510                    | 634000                    | 7                     |
|              | Downlink | Low  | 3495                    | 633000                    |                       |
| 90           | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | 3504.99                 | 633666                    | 1                     |
|              | Downlink | Low  | \                       | \                         |                       |
| 100          | &        | Mid  | 3500.01                 | 633334                    | 30                    |
|              | Uplink   | High | \                       | \                         | 1                     |



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### 4 Description of Tests

### 4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1



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### 4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB



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### 4.3 EIRP Power Density

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.3

#### **Test Settings**

- 1. Set instrument center frequency to OBW center frequency.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set the RBW to the specified reference bandwidth (often 1 MHz).
- 4. Set VBW ≥ 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span/RBW}$ .
- 7. Sweep time = auto couple.
- 8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- 9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).



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### 4.4 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

#### Remark: Reference test setup 1

#### Test Settings

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- VBW ≥ 3 x RBW
- Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
  - 1 5% of the 99% occupied bandwidth observed in Step 7



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### 4.5 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.

#### Remark: Reference test setup 1

#### Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- VBW ≥ 3 x RBW
- Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- Sweep time = auto couple
- 9. The trace was allowed to stabilize



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### 4.6 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

#### Remark: Reference test setup 1

#### **Test Settings**

- 1. Start frequency was set to 9kHz and stop frequency was set to at least 10\* the fundamental frequency(Separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissinos, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings



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### 4.7 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode

Remark: Reference test setup 1

#### Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power



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### 4.8 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

#### Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

E (dB $\mu$ V/m) = Measured amplitude level ( $\mu$ V/m) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB $\mu$ V/m) + 20 log D – 104.8; where D is the measurement distance in meters

#### Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

E (dB $\mu$ V/m) = Measured amplitude level (dB $\mu$ V) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB $\mu$ V/m) + 20 log D – 104.8; where D is the measurement distance in meters

- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by 20\*LOG(3/1) = 9.54 dB.

#### Remark: Reference test setup 2

Remark

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) All modes have been tested, but only the worst case data displayed in this report.



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### 4.9 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01 Section 9

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$  ppm ) of the center frequency.

#### Time Period and Procedure:

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Remark: Reference test setup 3



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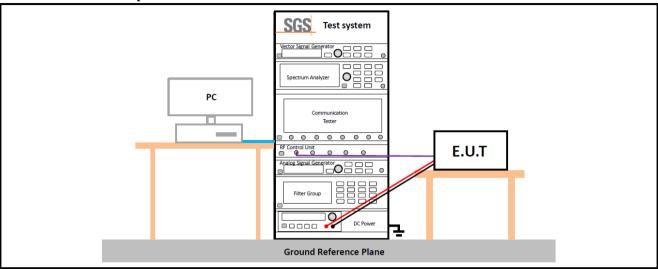


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### 4.10 Test Setups

### 4.10.1 Test Setup 1



4.10.2 Test Setup 2

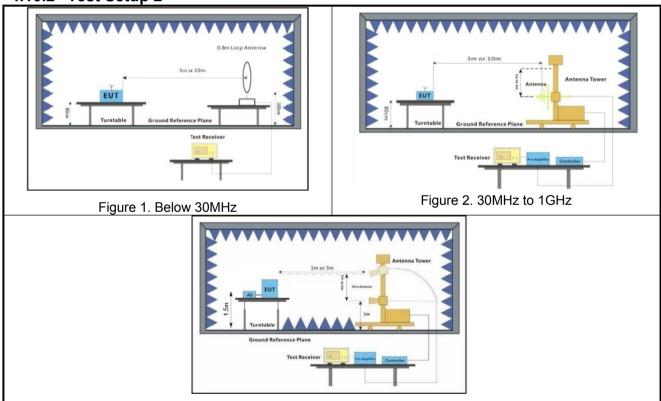


Figure 3. above 1GHz



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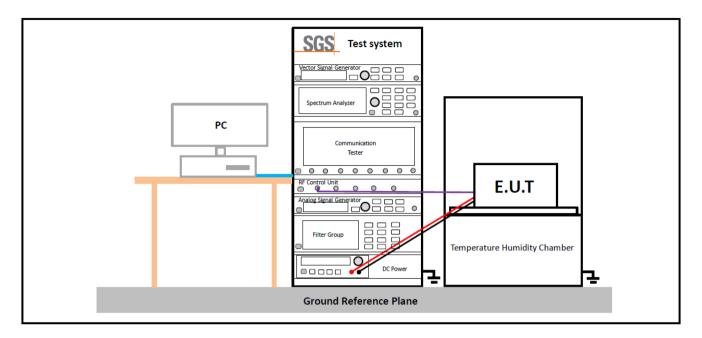


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### 4.10.3 Test Setup 3





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#### 4.11 Test Conditions

| Transmit Output Power Data - Average Power, Spectral Density |                                                                        |  |  |
|--------------------------------------------------------------|------------------------------------------------------------------------|--|--|
| Test Case                                                    | Test Conditions                                                        |  |  |
| Test Environment                                             | Ambient Climate & Rated Voltage                                        |  |  |
| Test Setup                                                   | Test Setup 1                                                           |  |  |
| RF Channels (TX)                                             | L, M, H (L= low channel, M= middle channel, H= high channel)           |  |  |
| Test Mode                                                    | NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9 |  |  |
|                                                              | Peak-to-Average Ratio                                                  |  |  |
| Test Case                                                    | Test Conditions                                                        |  |  |
| Test Environment                                             | Ambient Climate & Rated Voltage                                        |  |  |
| Test Setup                                                   | Test Setup 1                                                           |  |  |
| RF Channels (TX)                                             | L, M, H (L= low channel, M= middle channel, H= high channel)           |  |  |
| Test Mode                                                    | NR/TM5; NR/TM9                                                         |  |  |
|                                                              | Bandwidth - Occupied Bandwidth                                         |  |  |
| Test Case                                                    | Test Conditions                                                        |  |  |
| Test Environment                                             | Ambient Climate & Rated Voltage                                        |  |  |
| Test Setup                                                   | Test Setup 1                                                           |  |  |
| RF Channels (TX)                                             | L, M, H (L= low channel, M= middle channel, H= high channel)           |  |  |
| Test Mode                                                    | NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9 |  |  |
|                                                              | Bandwidth - Emission Bandwidth                                         |  |  |
| Test Case                                                    | Test Conditions                                                        |  |  |
| Test Environment                                             | Ambient Climate & Rated Voltage                                        |  |  |
| Test Setup                                                   | Test Setup 1                                                           |  |  |
| RF Channels (TX)                                             | L, M, H (L= low channel, M= middle channel, H= high channel)           |  |  |
| Test Mode                                                    | NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9 |  |  |
|                                                              | Band Edges Compliance                                                  |  |  |
| Test Case                                                    | Test Conditions                                                        |  |  |
| Test Environment                                             | Ambient Climate & Rated Voltage                                        |  |  |
| Test Setup                                                   | Test Setup 1                                                           |  |  |
| RF Channels (TX)                                             | L, H (L= low channel, H= high channel)                                 |  |  |
| Test Mode                                                    | NR/TM1; NR/TM6                                                         |  |  |
|                                                              | Spurious Emission at Antenna Terminals                                 |  |  |
| Test Case                                                    | Test Conditions                                                        |  |  |



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|                  | Fage. 39 01 00                                                                                                                  |  |  |
|------------------|---------------------------------------------------------------------------------------------------------------------------------|--|--|
| Test Environment | Ambient Climate & Rated Voltage                                                                                                 |  |  |
| Test Setup       | Test Setup 1                                                                                                                    |  |  |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel)                                                                    |  |  |
| Test Mode        | NR/TM1                                                                                                                          |  |  |
|                  | Field Strength of Spurious Radiation                                                                                            |  |  |
| Test Case        | Test Conditions                                                                                                                 |  |  |
| Test Environment | Ambient Climate & Rated Voltage                                                                                                 |  |  |
| Test Setup       | Test Setup 2                                                                                                                    |  |  |
| RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel)                                                                    |  |  |
| Test Mode        | NR/TM1 Remark: All bandwidth and modulation of NR have been pre tested, and only the worst results are reflected in the report. |  |  |
|                  | Frequency Stability                                                                                                             |  |  |
| Test Case        | Test Conditions                                                                                                                 |  |  |
| Test Environment | (1) -30 °C to +50 °C with step 10 °C at Rated Voltage (2) VL, VN and VH of Rated Voltage at Ambient Climate.                    |  |  |
| Test Setup       | Test Setup 3                                                                                                                    |  |  |
| RF Channels (TX) | M (M= middle channel)                                                                                                           |  |  |
| Toot Modo        | NR/TM1; NR/TM6                                                                                                                  |  |  |
| Test Mode        | The report only show the bandwidth with the worst case.                                                                         |  |  |



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### Main Test Instruments

| RF conducted test (for report SEWA2303000029RG02) |               |                                          |               |                           |                           |
|---------------------------------------------------|---------------|------------------------------------------|---------------|---------------------------|---------------------------|
| Test Equipment                                    | Manufacturer  | Model No.                                | Inventory No. | Cal. date<br>(yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Shielding Room                                    | Brilliant-emc | N/A                                      | SUWI-04-01-06 | 2021/05/08                | 2024/05/07                |
| Temperature and humidity meter                    | MingGao       | TH101B                                   | SUWI-01-01-07 | 2023/02/06                | 2024/02/05                |
| Signal Analyzer                                   | ROHDE&SCHWARZ | FSV3030                                  | SUWI-01-02-02 | 2022/05/17                | 2023/05/16                |
| Measurement Software                              | Tonscend      | JS1120-3 Test<br>System<br>V 2.6.88.0336 | SUWI-02-09-09 | NCR                       | NCR                       |
| Radio Communication<br>Analyzer                   | Anritsu       | MT8821C                                  | SUWI-01-26-03 | 2022/11/23                | 2023/11/22                |
| Wideband Radio<br>Communication Tester            | ROHDE&SCHWARZ | CMW500                                   | SUWI-01-16-05 | 2023/02/06                | 2024/02/05                |
| DC Power Supply                                   | HYELEC        | HY3005B                                  | SUWI-01-18-01 | 2023/02/06                | 2024/02/05                |
| Temperature Chamber                               | ESPEC         | SU-242                                   | SUWI-01-13-01 | 2023/02/06                | 2024/02/05                |
| Wideband Radio<br>Communication Test<br>Ststion   | Anritsu       | MT8000A                                  | SUWI-01-34-02 | 2022/09/16                | 2023/09/15                |
| Signal Analyzer                                   | ROHDE&SCHWARZ | FSW43                                    | SUWI-01-02-04 | 2022/05/28                | 2023/05/27                |

Remark: NCR=No Calibration Requirement



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|----------------------------------------------|-------------------------------------------------|---------------------|---------------|---------------------------|---------------------------|--|
|                                              | RSE Test System (for report SEWA2303000029RG02) |                     |               |                           |                           |  |
| Test<br>Equipment                            | Manufacturer                                    | Model No.           | Inventory No. | Cal. date<br>(yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |  |
| Semi-Anechoic<br>Chamber                     | Brilliant-emc                                   | N/A                 | SUWI-04-02-02 | 2021/11/25                | 2024/11/24                |  |
| Temperature<br>and humidity<br>meter         | MingGao                                         | TH101B              | SUWI-01-01-13 | 2023/02/07                | 2024/02/06                |  |
| Signal Analyzer                              | ROHDE&SCHWARZ                                   | FSW43               | SUWI-01-02-04 | 2022/05/28                | 2023/05/27                |  |
| Signal Analyzer                              | KEYSIGHT                                        | N9020A              | SUWI-01-02-06 | 2022/11/23                | 2023/11/22                |  |
| Test receiver                                | ROHDE&SCHWARZ                                   | ESR7                | SUWI-01-10-01 | 2023/02/08                | 2024/02/07                |  |
| Receiving antenna                            | SCHWRZBECK<br>MESS-<br>ELEKTRONIK               | VULB 9163           | SUWI-01-11-04 | 2021/12/05                | 2023/12/04                |  |
| Receiving antenna                            | SCHWRZBECK<br>MESS-<br>ELEKTRONIK               | BBHA 9120D          | SUWI-01-11-05 | 2021/12/05                | 2023/12/04                |  |
| Receiving antenna                            | SCHWRZBECK<br>MESS-<br>ELEKTRONIK               | BBHA 9170           | SUWI-01-11-03 | 2021/05/14                | 2023/05/13                |  |
| Active Loop<br>Antenna                       | SCHWRZBECK<br>MESS-<br>ELEKTRONIK               | FMZB 1519B          | SUWI-01-21-01 | 2021/06/10                | 2023/06/09                |  |
| Amplifier                                    | Tonscend                                        | TAP9K3G32           | SUWI-01-14-06 | 2022/11/23                | 2023/11/22                |  |
| Amplifier                                    | Tonscend                                        | TAP01018050         | SUWI-01-14-04 | 2022/11/23                | 2023/11/22                |  |
| Amplifier                                    | Tonscend                                        | TAP30M7G30          | SUWI-01-14-05 | 2022/11/23                | 2023/11/22                |  |
| Wideband<br>Radio<br>Communication<br>Tester | Anritsu                                         | MT8820C             | SUWI-01-16-08 | 2023/02/06                | 2024/02/05                |  |
| Wideband<br>Radio<br>Communication<br>Tester | Anritsu                                         | MT8821C             | SUWI-01-26-03 | 2022/11/23                | 2023/11/22                |  |
| UXM 5G<br>Wireless Test<br>Platform          | KEYSIGHT                                        | E7515B              | SUWI-01-04-01 | 2023/02/06                | 2024/02/05                |  |
| Radio<br>Communication<br>Analyzer           | StarPoint                                       | SP9500E             | SUWI-01-28-01 | 2022/09/16                | 2023/09/15                |  |
| Measurement<br>Software                      | Tonscend                                        | JS32-RE<br>V4.0.0.0 | SUWI-02-09-04 | NCR                       | NCR                       |  |

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|---------------------------------------------------|-----------------------------------|------------------------------------------|-------------------|---------------------------|---------------------------|
| RF conducted test (for report SEWM2311000473RG02) |                                   |                                          |                   |                           |                           |
| Test Equipment                                    | Manufacturer                      | Model No.                                | Inventory No.     | Cal. date<br>(yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Shielding Room                                    | Brilliant-emc                     | N/A                                      | SUWI-04-01-06     | 2021/05/08                | 2024/05/07                |
| Temperature and                                   | MinaCoo                           | TH101B                                   | SUWI-01-01-07     | 2023/02/06                | 2024/02/05                |
| humidity meter                                    | MingGao                           | ІПІОІВ                                   | 30001-01-01       | 2024/02/05                | 2025/02/04                |
| Signal Analyzer                                   | ROHDE&SCHWARZ                     | FSV3030                                  | SUWI-01-02-02     | 2023/05/11                | 2024/05/10                |
| Measurement Software                              | Tonscend                          | JS1120-3 Test<br>System<br>V 2.6.88.0336 | SUWI-02-09-09     | NCR                       | NCR                       |
| Measurement Software                              | TST                               | TST-271-2.0                              | SUWI-03-55-01     | NCR                       | NCR                       |
| Radio Communication                               | A maita                           | MT0004C                                  | CL IVA/I 04 06 00 | 2022/11/23                | 2023/11/22                |
| Analyzer                                          | Anritsu                           | MT8821C                                  | SUWI-01-26-03     | 2023/11/21                | 2024/11/20                |
| Wideband Radio                                    | DOUDE & COUMA DZ                  | CMW500                                   | SUWI-01-16-05     | 2023/02/06                | 2024/02/05                |
| Communication Tester                              | ROHDE&SCHWARZ                     | CIVIVVOU                                 | 30 10-05          | 2024/02/05                | 2025/02/04                |
| DC Dawar Cumhi                                    | LIVELEC                           | HY3005B                                  | SUWI-01-18-01     | 2023/02/06                | 2024/02/05                |
| DC Power Supply                                   | HYELEC                            | H 13005B                                 | 50001-01-18-01    | 2024/02/05                | 2025/02/04                |
| Tomporatura Chambar                               | ESPEC                             | SU-242                                   | SUWI-01-13-01     | 2023/02/06                | 2024/02/05                |
| Temperature Chamber                               | ESPEC                             | 50-242                                   | 50001-01-13-01    | 2024/02/05                | 2025/02/04                |
| Receiving antenna                                 | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9120D                               | SUWI-01-11-02     | 2023/05/13                | 2024/05/12                |
| Wideband Radio<br>Communication Test<br>Ststion   | Anritsu                           | MT8000A                                  | SUWI-01-34-02     | 2023/09/12                | 2024/09/11                |
| Signal Analyzer                                   | ROHDE&SCHWARZ                     | FSW43                                    | SUWI-01-02-04     | 2023/05/11                | 2024/05/10                |
| Radio Communication<br>Analyzer                   | StarPoint                         | SP9500E                                  | SUWI-01-28-01     | 2023/09/13                | 2024/09/12                |

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|-------------------------------------------------|-----------------------------------|---------------------|-----------------|---------------------------|---------------------------|--|
| RSE Test System (for report SEWM2311000473RG02) |                                   |                     |                 |                           |                           |  |
| Test<br>Equipment                               | Manufacturer                      | Model No.           | Inventory No.   | Cal. date<br>(yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |  |
| Semi-Anechoic<br>Chamber                        | Brilliant-emc                     | N/A                 | SUWI-04-02-02   | 2021/11/25                | 2024/11/24                |  |
| Temperature<br>and humidity<br>meter*           | MingGao                           | TH101B              | SUWI-01-01-13   | 2023/02/07                | 2024/02/06                |  |
| Signal Analyzer                                 | ROHDE&SCHWARZ                     | FSW43               | SUWI-01-02-04   | 2023/05/11                | 2024/05/10                |  |
| Signal Analyzor                                 | KEYSIGHT                          | N9020A              | SUWI-01-02-06   | 2022/11/23                | 2023/11/22                |  |
| Signal Analyzer                                 | KETSIGHT                          | N9020A              | 30771-01-02-06  | 2023/11/21                | 2024/11/20                |  |
| Took woodings                                   | DOLIDE & COLIMA DZ                | ECD7                | CLIM/I 04 40 04 | 2023/02/08                | 2024/02/07                |  |
| Test receiver                                   | ROHDE&SCHWARZ                     | ESR7                | SUWI-01-10-01   | 2024/02/01                | 2025/01/31                |  |
| Receiving antenna                               | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | VULB 9163           | SUWI-01-11-01   | 2023/05/13                | 2024/05/12                |  |
| Receiving antenna                               | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9120D          | SUWI-01-11-02   | 2023/05/13                | 2024/05/12                |  |
| Receiving antenna                               | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | BBHA 9170           | SUWI-01-11-03   | 2023/05/12                | 2024/05/11                |  |
| Active Loop<br>Antenna                          | SCHWRZBECK<br>MESS-<br>ELEKTRONIK | FMZB 1519B          | SUWI-01-21-01   | 2023/05/13                | 2024/05/12                |  |
| Amplifion                                       | Tonscend TA                       | TAP9K3G32           | SUWI-01-14-06   | 2022/11/23                | 2023/11/22                |  |
| Amplifier                                       |                                   | TAF9K3G32           |                 | 2023/11/21                | 2024/11/20                |  |
| Amonlifica                                      | Tonscend TAP(                     | TAP01018050         | SUWI-01-14-04   | 2022/11/23                | 2023/11/22                |  |
| Amplifier                                       |                                   | 14701016050         |                 | 2023/11/21                | 2024/11/20                |  |
| Amplifier                                       | Tonscend                          | TAP30M7G30          | SUWI-01-14-05   | 2022/11/23                | 2023/11/22                |  |
| Amplinei                                        | Torisceria                        | TAF30W7G30          | 30771-01-14-03  | 2023/11/21                | 2024/11/20                |  |
| Wideband<br>Radio                               |                                   |                     |                 | 2023/02/06                | 2024/02/05                |  |
| Communication<br>Tester                         | Anritsu                           | MT8820C             | SUWI-01-16-08   | 2024/02/04                | 2025/02/03                |  |
| Wideband                                        |                                   |                     |                 | 2022/11/23                | 2023/11/22                |  |
| Radio<br>Communication<br>Tester                | Anritsu                           | MT8821C             | SUWI-01-26-03   | 2023/11/21                | 2024/11/20                |  |
| Radio<br>Communication<br>Analyzer              | StarPoint                         | SP9500E             | SUWI-01-28-03   | 2023/05/11                | 2024/05/10                |  |
| Measurement<br>Software                         | Tonscend                          | JS32-RE<br>V4.0.0.0 | SUWI-02-09-04   | NCR                       | NCR                       |  |



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Remark: NCR=No Calibration Requirement

Note\*: The RSE data were tested in 2023/12/05 to 2023/12/12, so this equipment is not used for testing after

2024/02/06.



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### 6 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

| No. | Item                          | Measurement Uncertainty  |
|-----|-------------------------------|--------------------------|
| 1   | Total RF power, conducted     | ±0.54dB                  |
| 2   | RF power density, conducted   | ±1.03dB                  |
| 3   | Spurious emissions, conducted | ±0.54dB                  |
| 4   | Radio Frequency               | ±1.0 %                   |
| 5   | Duty Cycle                    | ±0.37%                   |
| 6   | Occupied Bandwidth            | ±1.0 %                   |
|     |                               | ± 3.13dB (9k -30MHz)     |
| 7   | Dadiated Emission             | ± 4.88dB (30M -1GHz)     |
| 7   | Radiated Emission             | ± 4.75dB (1GHz to 18GHz) |
|     |                               | ± 4.77dB (Above 18GHz)   |

#### Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{cispr/ETSI}}$  (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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