

Report No.: SEWM2309000395RG02  
 Rev.: 01  
 Page: 1 of 43

# TEST REPORT

**Application No.:** SEWM2309000395RG  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** 23122PCD1G  
**Trade Mark:** POCO  
**FCC ID:** 2AFZZPCD1G  
**Standards:** 47 CFR Part 2  
 47 CFR Part 22  
 47 CFR Part 27  
**Date of Receipt:** 2023/07/31 (for original report SEWM2307000261RG02)  
 2023/09/23 (for new report SEWM2309000395RG02)  
**Date of Test:** 2023/08/06 to 2023/08/24 (for original report SEWM2307000261RG02)  
 2023/09/23 to 2023/10/26 (for new report SEWM2309000395RG02)  
**Date of Issue:** 2023/10/27

|                     |               |
|---------------------|---------------|
| <b>Test Result:</b> | <b>PASS *</b> |
|---------------------|---------------|

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

Authorized Signature:

Well Wei  
 Wireless Laboratory Manager



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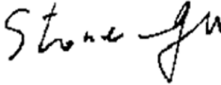
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# 1 Version

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2023/10/27 |          | Original |

|                    |  |  |
|--------------------|--|--|
| <b>Prepared By</b> |  | <br><hr/> (Levi Li) / Test Engineer |
| <b>Checked By</b>  |  | <br><hr/> (Stone Gu) / Reviewer    |



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## 2 Test Summary

### 2.1 NR Band n5

| Test Item  | FCC Rule No.                                 | Requirements  | Test Result                | Verdict |
|--|--|---|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §22.913(a)(5)                       | FCC: ERP ≤ 7 W  | Section 1 of Appendix B.17 | Pass    |
| Peak-Average Ratio                               | §22.913(d)                                   | Limit ≤ 13 dB   | Section 2 of Appendix B.17 | Pass    |
| Bandwidth  | §2.1049                                      | OBW: No limit.<br>EBW: No limit.  | Section 3 of Appendix B.17 | Pass    |
| Band Edges Compliance                            | §2.1051, §22.917(a)                          | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.               | Section 4 of Appendix B.17 | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051, §22.917(a)                          | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. | Section 5 of Appendix B.17 | Pass    |
| Field Strength of Spurious Radiation             | §2.1053, §22.917(a)                          | FCC: ≤ -13 dBm/100 kHz.   | Section 6 of Appendix B.17 | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(2)<br>§22.355 | ≤ ±2.5ppm.  | Section 7 of Appendix B.17 | Pass    |



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## 2.2 NR Band n7/ NR Band n38/ NR Band n41

| Test Item  | FCC Rule No.                                | Requirements  | Test Result                          | Verdict |
|--|---|---|--------------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(h)(2)                       | EIRP ≤ 2W   | Section 1 of Appendix B.18&B.19&B.20 | Pass    |
| Peak-Average Ratio                               | ---   | ≤13 dB  | Section 2 of Appendix B.18&B.19&B.20 | Pass    |
| Bandwidth  | §2.1049                                     | OBW: No limit.<br>EBW: No limit.  | Section 3 of Appendix B.18&B.19&B.20 | Pass    |
| Band Edges Compliance                            | §2.1051, §27.53(m4)                         | 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 defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than 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 B.18&B.19&B.20 | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051, §27.53(m)                          |   | Section 5 of Appendix B.18&B.19&B.20 | Pass    |
| Field Strength of Spurious Radiation             | §2.1053, §27.53(m)                          |   | Section 6 of Appendix B.18&B.19&B.20 | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(2)<br>§27.54 | Within authorized bands of operation/frequency block.   | Section 7 of Appendix B.18&B.19&B.20 | Pass    |



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**2.3 NR Band n66**

| Test Item  | FCC Rule No.                                | Requirements   | Test Result                | Verdict |
|--|---|--|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(d)(4)                       | EIRP ≤ 1 W   | Section 1 of Appendix B.21 | Pass    |
| Peak-Average Ratio                               | §27.50(d)(5)                                | Limit≤13 dB  | Section 2 of Appendix B.21 | Pass    |
| Bandwidth  | §2.1049                                     | OBW: No limit.<br>EBW: No limit.   | Section 3 of Appendix B.21 | Pass    |
| Band Edges Compliance                            | §2.1051, §27.53(h)                          | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.                    | Section 4 of Appendix B.21 | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051, §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 Appendix B.21 | Pass    |
| Field Strength of Spurious Radiation             | §2.1053, §27.53(h)                          | ≤ -13 dBm/1 MHz.   | Section 6 of Appendix B.21 | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(2)<br>§27.54 | Within authorized bands of operation/frequency block.  | Section 7 of Appendix B.21 | Pass    |



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## 2.4 NR Band n77 / NR Band n78

### 3700-3980MHz:

| Test Item  | FCC Rule No.                                | Requirements   | Test Result                     | Verdict |
|--|---|--|---------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046,<br>§27.50(j)(3)                    | EIRP ≤ 1W  | Section 1 of Appendix B.23&B.25 | Pass    |
| Peak-Average Ratio                               | ---   | ≤13 dB   | Section 2 of Appendix B.23&B.25 | Pass    |
| Bandwidth  | §2.1049                                     | OBW: No limit.<br>EBW: No limit.   | Section 3 of Appendix B.23&B.25 | Pass    |
| Band Edges Compliance                            | §2.1051,<br>§27.53(l)(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 (l)(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 bandwidth of the fundamental 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 Appendix B.23&B.25 | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051,<br>§27.53(l)(2)                    | not exceed -13 dBm/MHz.  | Section 5 of Appendix B.23&B.25 | Pass    |
| Field Strength of Spurious Radiation             | §2.1053,<br>§27.53(l)(2)                    | not exceed -13 dBm/MHz   | Section 6 of Appendix B.23&B.25 | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(2)<br>§27.54 | Within authorized bands of operation/frequency block.  | Section 7 of Appendix B.23&B.25 | Pass    |



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**3450-3550MHz:**

| Test Item  | FCC Rule No.                                | Requirements   | Test Result                     | Verdict |
|--|---|--|---------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(k)(3)                       | EIRP ≤ 30dBm   | Section 1 of Appendix B.22&B.24 | Pass    |
| Peak-Average Ratio                               | §27.50(k)(4)                                | FCC: Limit≤13 dB   | Section 2 of Appendix B.24      | Pass    |
| Bandwidth  | §2.1049                                     | OBW: No limit.<br>EBW: No limit.   | Section 3 of Appendix B.24      | Pass    |
| Band Edges Compliance                            | §2.1051, §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 Appendix B.24      | Pass    |
| Spurious Emission at Antenna Terminals           | §2.1051, §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 Appendix B.24      | Pass    |
| Field Strength of Spurious Radiation             | §2.1053, §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 Appendix B.22&B.24 | Pass    |
| Frequency Stability                              | §2.1055(a)(1)(b)<br>§2.1055(d)(2)<br>§27.54 | Within authorized bands of operation/ frequency block.   | Section 7 of Appendix B.24      | Pass    |



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This test report (Report No.: SEWM2309000395RG02 issue on 2023/10/27) is based on the original test report (Report No.: SEWM2307000261RG02 issue on 2023/08/25).

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 items of Power and Field Strength of Spurious Radiation were performed based on the worst case of the original report with report number SEWM2307000261RG02 issue on 2023/08/25 and other test data in this report are based on the previous report with report number SEWM2307000261RG02 issue on 2023/08/25, the FCC ID of the original test report is 2AFZZRA50G.



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### 3 General Information

#### 3.1 Client Information

|                          |   |
|--------------------------|---|
| Applicant:               | Xiaomi Communications Co., Ltd.   |
| Address of Applicant:    | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |
| Manufacturer:            | Xiaomi Communications Co., Ltd.   |
| Address of Manufacturer: | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |

#### 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, Tizy Song   |

#### 3.3 Test Facility

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

|   |
|---|
| <ul style="list-style-type: none"> <li>• <b>A2LA (Certificate No. 6336.01)</b><br/>SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.</li> <li>• <b>Innovation, Science and Economic Development Canada</b><br/>SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.<br/>CAB identifier: CN0120.<br/>IC#: 27594.</li> <li>• <b>FCC –Designation Number: CN1312</b><br/>SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.<br/>Designation Number: CN1312.<br/>Test Firm Registration Number: 717327</li> </ul> |
|---|



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|  |            |                     |  |
|--|------------|---------------------|--|
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### 3.4 General Description of EUT

|                   |   |  |                   |
|-------------------|---|--|-------------------|
| EUT Description:  | Mobile Phone  |  |                   |
| Model No.:        | 23122PCD1G  |  |                   |
| Trade Mark:       | POCO  |  |                   |
| Hardware Version: | 13510N16  |  |                   |
| Software Version: | MIUI 14   |  |                   |
| Power Supply:     | Lithium Battery (3.91V)   |  |                   |
| IMEI:             | RF Conducted  | 867837060019764  |                   |
|                   | RSE   | IMEI1: 867837060041388<br>IMEI2: 867837060041396               |                   |
| HPUE Power Class: | Class 2: NR Band n77; NR Band n78   |  |                   |
| Antenna Type:     | IFA Antenna   |  |                   |
| Antenna Gain:     | NR Band n5:   | -5dBi (Ant0); -4.6dBi (Ant1)                                   |                   |
|                   | NR Band n7:   | -0.3dBi (Ant2); -1.2dBi (Ant3); -1.6dBi (Ant4); -2dBi (Ant5)   |                   |
|                   | NR Band n38:  | -0.3dBi (Ant2); -1.2dBi (Ant3); -2dBi (Ant4); -3.8dBi (Ant5)   |                   |
|                   | NR Band n41:  | -0.3dBi (Ant2); -1.2dBi (Ant3); -1.6dBi (Ant4); -2dBi (Ant5)   |                   |
|                   | NR Band n66:  | -5.8dBi (Ant2); -2.2dBi (Ant3); -1.7dBi (Ant4); -4.5dBi (Ant5) |                   |
|                   | NR Band n77:  | -2.8dBi (Ant1); 2.6dBi (Ant6); -0.3dBi (Ant7); 1.9dBi (Ant8)   |                   |
|                   | NR Band n78:  | -2.8dBi (Ant1); 2.6dBi (Ant6); -0.3dBi (Ant7); 1.9dBi (Ant8)   |                   |
|                   | Note:<br>The antenna gain are derived from the gain information report provided by the manufacturer.  |  |                   |
| RF Cable:         | 0.8dB(Below 1GHz)   | 1.0dB(1.0~2.4GHz)  | 1.2dB(2.4~3.4GHz) |
|                   | 1.5dB(Above 3.4GHz)   |  |                   |
| Remark:           | <p>1. Conduction Power &amp; EIRP of all antennas are tested, and only the worst data is presented.</p> <p>2. As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p> |  |                   |



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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(Vdc) |
| NTNV                  | 22~23                                  | 3.91         |
| LTLV                  | -30                                    | 3.5          |
| LTHV                  | -30                                    | 4.35         |
| HTLV                  | 50                                     | 3.5          |
| HTHV                  | 50                                     | 4.35         |

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

The EUT has been tested as an independent unit.



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 t (86-512) 62992980 sgs.china@sgs.com

### 3.8 Technical Specification

| Characteristics  | Description  |  |  |
|--|--|--|--|
| Radio System Type  | <input checked="" type="checkbox"/> SA <input checked="" type="checkbox"/> NSA |  |  |
| Supported Frequency Range  | Band   | TX   | RX   |
|  | NR Band n5   | 824 to 849 MHz                             | 869 to 894 MHz   |
|  | NR Band n7   | 2500 to 2570 MHz                           | 2620 to 2690 MHz   |
|  | NR Band n38  | 2570 to 2620 MHz                           | 2570 to 2620 MHz   |
|  | NR Band n41  | 2496 to 2690 MHz                           | 2496 to 2690 MHz   |
|  | NR Band n66  | 1710 to 1780 MHz                           | 2110 to 2180 MHz   |
|  | NR Band n77*   | 3700 to 3980 MHz                           | 3700 to 3980 MHz   |
|  |  | 3450 to 3550 MHz                           | 3450 to 3550 MHz   |
|  | NR Band n78*   | 3700 to 3800 MHz                           | 3700 to 3800 MHz   |
|  |  | 3450 to 3550 MHz                           | 3450 to 3550 MHz   |
| ENDC:<br>DC_7A_n5A; DC_66A_n7A; DC_66A_n38A;<br>DC_12A_n66A; DC_2A_n66A; DC_5A_n66A; DC_7A_n66A; DC_66A_n41A;<br>DC_26A_n41A; DC_2A_n78A; DC_38A_n78A; DC_41A_n78A; DC_5A_n78A;<br>DC_66A_n78A; DC_7A_n78A; DC_26A_n78A;<br>ENDC only test RSE, report only show worst mode.<br>Note*:<br>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 and RSE. |  |  |  |
| Supported Channel Bandwidth  | NR Band n5   | SCS 15kHz:                                 |  |
|  |  | <input checked="" type="checkbox"/> 5 MHz  | <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz |
|  | NR Band n7   | SCS 15kHz:                                 |  |
|  |  | <input checked="" type="checkbox"/> 5 MHz  | <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz |
|  |  | <input checked="" type="checkbox"/> 25 MHz | <input checked="" type="checkbox"/> 30 MHz <input checked="" type="checkbox"/> 40 MHz  |
|  | NR Band n38  | SCS 30kHz:                                 |  |
|  |  | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz <input checked="" type="checkbox"/> 30 MHz |
|  | NR Band n41  | SCS 30kHz:                                 |  |
|  |  | <input checked="" type="checkbox"/> 20 MHz | <input checked="" type="checkbox"/> 30 MHz <input checked="" type="checkbox"/> 40 MHz <input checked="" type="checkbox"/> 50 MHz |
|  |  | <input checked="" type="checkbox"/> 60 MHz | <input checked="" type="checkbox"/> 70 MHz <input checked="" type="checkbox"/> 80 MHz <input checked="" type="checkbox"/> 90 MHz |
| <input checked="" type="checkbox"/> 100 MHz  |  |  |  |



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|             |                    |   |
|-------------|--------------------|---|
|             | NR Band n66        | SCS 15kHz:  |
|             |                    | <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz<br><input checked="" type="checkbox"/> 30 MHz <input checked="" type="checkbox"/> 40 MHz   |
|             | NR Band n77        | SCS 30kHz   |
|             |                    | <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz <input checked="" type="checkbox"/> 30 MHz<br><input checked="" type="checkbox"/> 40 MHz <input checked="" type="checkbox"/> 50 MHz <input checked="" type="checkbox"/> 60 MHz <input checked="" type="checkbox"/> 70 MHz<br><input checked="" type="checkbox"/> 80 MHz <input checked="" type="checkbox"/> 90 MHz <input checked="" type="checkbox"/> 100 MHz |
|             |                    | SCS 30kHz:  |
|             | NR Band n78        | <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz <input checked="" type="checkbox"/> 30 MHz<br><input checked="" type="checkbox"/> 40 MHz <input checked="" type="checkbox"/> 50 MHz <input checked="" type="checkbox"/> 60 MHz <input checked="" type="checkbox"/> 70 MHz<br><input checked="" type="checkbox"/> 80 MHz <input checked="" type="checkbox"/> 90 MHz <input checked="" type="checkbox"/> 100 MHz |
|             |                    | DFT-s-Pi/2-BPSK    CP-16QAM   |
|             |                    | SCS 15kHz:  |
|             | NR Band n5         | 4M47G7D    4M51W7D  |
|             |                    | 8M89G7D    9M27W7D  |
|             |                    | 13M4G7D    14M1W7D  |
|             |                    | 17M9G7D    18M9W7D  |
| SCS 15kHz:  |                    |   |
| NR Band n7  | 4M47G7D    4M51W7D |   |
|             | 8M93G7D    9M27W7D |   |
|             | 13M5G7D    14M2W7D |   |
|             | 17M9G7D    18M9W7D |   |
|             | 22M9G7D    23M8W7D |   |
|             | 28M6G7D    28M6W7D |   |
| NR Band n38 | 38M6G7D    38M5W7D |   |
|             | SCS 30kHz:         |   |
|             | 8M61G7D    8M60W7D |   |
|             | 12M9G7D    13M7W7D |   |
|             | 17M8G7D    18M2W7D |   |
| NR Band n41 | 26M9G7D    27M9W7D |   |
|             | 35M8G7D    38M0W7D |   |
|             | SCS 30kHz:         |   |
|             |                    | 17M8G7D    18M3W7D  |
|             |                    | 26M8G7D    27M9W7D  |

Designation of Emissions  
(Remark: the necessary bandwidth of which is the worst value from the measured occupied bandwidths for each type of channel bandwidth configuration.)



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|         |                            |            |         |  |
|---------|----------------------------|------------|---------|--|
|         |                            | 35M6G7D    | 37M8W7D |  |
|         |                            | 45M8G7D    | 47M6W7D |  |
|         |                            | 57M7G7D    | 57M8W7D |  |
|         |                            | 64M3G7D    | 67M3W7D |  |
|         |                            | 77M0G7D    | 77M6W7D |  |
|         |                            | 85M4G7D    | 87M3W7D |  |
|         |                            | 96M2G7D    | 97M5W7D |  |
|         | NR Band n66                | SCS 15kHz: |         |  |
|         |                            | 4M47G7D    | 4M48W7D |  |
|         |                            | 8M92G7D    | 9M29W7D |  |
|         |                            | 13M5G7D    | 14M1W7D |  |
|         |                            | 17M9G7D    | 19M0W7D |  |
|         |                            | 28M6G7D    | 28M6W7D |  |
|         |                            | 38M7G7D    | 38M7W7D |  |
|         | NR Band n77<br>(3700-3980) | SCS 30kHz: |         |  |
|         |                            | 8M60G7D    | 8M58W7D |  |
|         |                            | 12M9G7D    | 13M6W7D |  |
|         |                            | 17M7G7D    | 18M3W7D |  |
|         |                            | 26M8G7D    | 27M8W7D |  |
|         |                            | 35M8G7D    | 37M9W7D |  |
|         |                            | 45M7G7D    | 47M3W7D |  |
|         |                            | 57M8G7D    | 57M8W7D |  |
|         |                            | 64M5G7D    | 67M2W7D |  |
|         |                            | 77M2G7D    | 77M6W7D |  |
|         | NR Band n78<br>(3450-3550) | SCS 30kHz: |         |  |
|         |                            | 8M58G7D    | 8M59W7D |  |
|         |                            | 12M9G7D    | 13M6W7D |  |
|         |                            | 17M8G7D    | 18M2W7D |  |
|         |                            | 26M7G7D    | 27M9W7D |  |
|         |                            | 35M8G7D    | 37M8W7D |  |
| 45M7G7D |                            | 47M3W7D    |         |  |
| 57M9G7D |                            | 57M8W7D    |         |  |
|         | 64M3G7D                    | 67M2W7D    |         |  |



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|  |                            |            |         |
|--|----------------------------|------------|---------|
|  |                            | 77M2G7D    | 77M6W7D |
|  |                            | 85M8G7D    | 87M5W7D |
|  |                            | 96M5G7D    | 97M3W7D |
|  | NR Band n78<br>(3700-3800) | SCS 30kHz: |         |
|  |                            | 8M60G7D    | 8M55W7D |
|  |                            | 12M8G7D    | 13M6W7D |
|  |                            | 17M8G7D    | 18M2W7D |
|  |                            | 26M7G7D    | 27M8W7D |
|  |                            | 35M7G7D    | 37M8W7D |
|  |                            | 45M7G7D    | 47M5W7D |
|  |                            | 57M8G7D    | 57M8W7D |
|  |                            | 64M2G7D    | 67M4W7D |
|  |                            | 77M0G7D    | 77M6W7D |
|  |                            | 85M8G7D    | 87M3W7D |
|  |                            | 96M4G7D    | 97M4W7D |



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### 3.9 Test Frequencies

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

##### 3.9.1.1 Test frequencies for NR operating band n5 and SCS 15 kHz

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



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**3.9.2 Reference test frequencies for NR operating band n7**

**3.9.2.1 Test frequencies for NR operating band n7 and SCS 15 kHz**

| Bandwidth [MHz] | Range    |      | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 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                 |                    |
| 10              | Downlink | Low  | 2625                 | 525000                 | 15                 |
|                 |          | Mid  | 2655                 | 531000                 |                    |
|                 |          | High | 2685                 | 537000                 |                    |
|                 | Uplink   | Low  | 2505                 | 501000                 | -                  |
|                 |          | Mid  | 2535                 | 507000                 |                    |
|                 |          | High | 2565                 | 513000                 |                    |
| 15              | Downlink | Low  | 2627.5               | 525500                 | 15                 |
|                 |          | Mid  | 2655                 | 531000                 |                    |
|                 |          | High | 2682.5               | 536500                 |                    |
|                 | 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                 |                    |
| 25              | Downlink | Low  | 2632.5               | 526500                 | 15                 |
|                 |          | Mid  | 2655                 | 531000                 |                    |
|                 |          | High | 2677.5               | 535500                 |                    |
|                 | Uplink   | Low  | 2512.5               | 502500                 | -                  |
|                 |          | Mid  | 2535                 | 507000                 |                    |
|                 |          | High | 2557.5               | 511500                 |                    |
| 30              | Downlink | Low  | 2635                 | 527000                 | 15                 |
|                 |          | Mid  | 2655                 | 531000                 |                    |
|                 |          | High | 2675                 | 535000                 |                    |
|                 | Uplink   | Low  | 2515                 | 503000                 | -                  |
|                 |          | Mid  | 2535                 | 507000                 |                    |
|                 |          | High | 2555                 | 511000                 |                    |
| 40              | Downlink | Low  | 2640                 | 528000                 | 15                 |
|                 |          | Mid  | 2655                 | 531000                 |                    |
|                 |          | High | 2670                 | 534000                 |                    |
|                 | Uplink   | Low  | 2520                 | 504000                 | -                  |
|                 |          | Mid  | 2535                 | 507000                 |                    |
|                 |          | High | 2550                 | 510000                 |                    |



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**3.9.3 Reference test frequencies for NR operating band n38**

**3.9.3.1 Test frequencies for NR operating band n38 and SCS 30 kHz**

| Bandwidth [MHz] | Range             |      | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|-------------------|------|----------------------|------------------------|--------------------|
| 10              | Downlink & Uplink | Low  | 2575                 | 515000                 | 30                 |
|                 |                   | Mid  | 2595                 | 519000                 |                    |
|                 |                   | High | 2615                 | 523000                 |                    |
| 15              | Downlink & Uplink | Low  | 2577.5               | 515500                 | 30                 |
|                 |                   | Mid  | 2595                 | 519000                 |                    |
|                 |                   | High | 2612.5               | 522500                 |                    |
| 20              | Downlink & Uplink | Low  | 2580                 | 516000                 | 30                 |
|                 |                   | Mid  | 2595                 | 519000                 |                    |
|                 |                   | High | 2610                 | 522000                 |                    |
| 30              | Downlink & Uplink | Low  | 2585                 | 517000                 | 30                 |
|                 |                   | Mid  | 2595                 | 519000                 |                    |
|                 |                   | High | 2605                 | 521000                 |                    |
| 40              | Downlink & Uplink | Low  | 2590                 | 518000                 | 30                 |
|                 |                   | Mid  | 2595                 | 519000                 |                    |
|                 |                   | High | 2600                 | 520000                 |                    |



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**3.9.4 Reference test frequencies for NR operating band n41**

**3.9.4.1 Test frequencies for NR operating band n41 and SCS 30 kHz**

| Bandwidth [MHz] | Range    |      | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 20              | Downlink | Low  | 2506.02              | 501204                 | 30                 |
|                 | &        | Mid  | 2592.99              | 518598                 |                    |
|                 | Uplink   | High | 2679.99              | 535998                 |                    |
| 30              | Downlink | Low  | 2511                 | 502200                 | 30                 |
|                 | &        | Mid  | 2592.99              | 518598                 |                    |
|                 | Uplink   | High | 2674.98              | 534996                 |                    |
| 40              | Downlink | Low  | 2516.01              | 503202                 | 30                 |
|                 | &        | Mid  | 2592.99              | 518598                 |                    |
|                 | Uplink   | High | 2670                 | 534000                 |                    |
| 50              | Downlink | Low  | 2521.02              | 504204                 | 30                 |
|                 | &        | Mid  | 2592.99              | 518598                 |                    |
|                 | Uplink   | High | 2664.99              | 532998                 |                    |
| 60              | Downlink | Low  | 2526                 | 505200                 | 30                 |
|                 | &        | Mid  | 2592.99              | 518598                 |                    |
|                 | Uplink   | High | 2659.98              | 531996                 |                    |
| 70              | Downlink | Low  | 2531                 | 506200                 | 30                 |
|                 | &        | Mid  | 2592.29              | 518598                 |                    |
|                 | Uplink   | High | 2655                 | 531000                 |                    |
| 80              | Downlink | Low  | 2536.02              | 507204                 | 30                 |
|                 | &        | Mid  | 2592.99              | 518598                 |                    |
|                 | Uplink   | High | 2649.99              | 529998                 |                    |
| 90              | Downlink | Low  | 2541                 | 508200                 | 30                 |
|                 | &        | Mid  | 2592.99              | 518598                 |                    |
|                 | Uplink   | High | 2644.98              | 528996                 |                    |
| 100             | Downlink | Low  | 2546.01              | 509202                 | 30                 |
|                 | &        | Mid  | 2592.99              | 518598                 |                    |
|                 | Uplink   | High | 2640                 | 528000                 |                    |



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**3.9.5 Reference test frequencies for NR operating band n66**

**3.9.5.1 Test frequencies for NR operating band n66 and SCS 15 kHz**

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



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**3.9.6 Reference test frequencies for NR operating band n77**

**3.9.6.1 Test frequencies for NR operating band n77 and SCS 30 kHz**

**3700-3980:**

| CBW [MHz] | Range             | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|-------------------|----------------------|------------------------|--------------------|
| 10        | Downlink & Uplink | Low                  | 3705                   | 647000             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3975                   | 665000             |
| 15        | Downlink & Uplink | Low                  | 3707.52                | 647168             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3972.48                | 664832             |
| 20        | Downlink & Uplink | Low                  | 3710.01                | 647334             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3969.99                | 664666             |
| 30        | Downlink & Uplink | Low                  | 3714.99                | 647666             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3965.01                | 664334             |
| 40        | Downlink & Uplink | Low                  | 3720                   | 648000             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3960                   | 664000             |
| 50        | Downlink & Uplink | Low                  | 3725.01                | 648334             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3954.99                | 663666             |
| 60        | Downlink & Uplink | Low                  | 3730.02                | 648668             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3949.98                | 663332             |
| 70        | Downlink & Uplink | Low                  | 3735                   | 649000             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3945                   | 663000             |
| 80        | Downlink & Uplink | Low                  | 3740.01                | 649334             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3939.99                | 662666             |
| 90        | Downlink & Uplink | Low                  | 3745.02                | 649668             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3934.98                | 662332             |
| 100       | Downlink & Uplink | Low                  | 3750                   | 650000             |
|           |                   | Mid                  | 3840                   | 656000             |
|           |                   | High                 | 3930                   | 662000             |



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3450-3550:

| CBW [MHz] | Range             | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |    |
|-----------|-------------------|----------------------|------------------------|--------------------|----|
| 10        | Downlink & Uplink | Low                  | 3455.01                | 630334             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3545.01                | 636334             |    |
| 15        | Downlink & Uplink | Low                  | 3457.5                 | 630500             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3542.49                | 636166             |    |
| 20        | Downlink & Uplink | Low                  | 3460.02                | 630668             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3540                   | 636000             |    |
| 30        | Downlink & Uplink | Low                  | 3465                   | 631000             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3534.99                | 635666             |    |
| 40        | Downlink & Uplink | Low                  | 3470.01                | 631334             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3530.01                | 635334             |    |
| 50        | Downlink & Uplink | Low                  | 3475.02                | 631668             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3525                   | 635000             |    |
| 60        | Downlink & Uplink | Low                  | 3480                   | 632000             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3519.99                | 634666             |    |
| 70        | Downlink & Uplink | Low                  | 3485.01                | 632334             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3515.01                | 634334             |    |
| 80        | Downlink & Uplink | Low                  | 3490.02                | 632668             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3510                   | 634000             |    |
| 90        | Downlink & Uplink | Low                  | 3495                   | 633000             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3504.99                | 633666             |    |
| 100       | Downlink & Uplink | Low                  | \                      | \                  | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | \                      | \                  |    |



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**3.9.7 Reference test frequencies for NR operating band n78**

**3.9.7.1 Test frequencies for NR operating band n78 and SCS 30 kHz**

**3700-3800:**

| CBW [MHz] | Range             |      | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|-------------------|------|----------------------|------------------------|--------------------|
| 10        | Downlink & Uplink | Low  | 3705                 | 647000                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3795                 | 653000                 |                    |
| 15        | Downlink & Uplink | Low  | 3707.52              | 647168                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3792.48              | 652832                 |                    |
| 20        | Downlink & Uplink | Low  | 3710.01              | 647334                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3789.99              | 652666                 |                    |
| 30        | Downlink & Uplink | Low  | 3715.02              | 647668                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3785.01              | 652334                 |                    |
| 40        | Downlink & Uplink | Low  | 3720                 | 648000                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3780                 | 652000                 |                    |
| 50        | Downlink & Uplink | Low  | 3725.01              | 648334                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3774.99              | 651666                 |                    |
| 60        | Downlink & Uplink | Low  | 3730.02              | 648668                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3769.98              | 651332                 |                    |
| 70        | Downlink & Uplink | Low  | 3735                 | 649000                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3765                 | 651000                 |                    |
| 80        | Downlink & Uplink | Low  | 3740.01              | 649334                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3759.99              | 650666                 |                    |
| 90        | Downlink & Uplink | Low  | 3745.02              | 649668                 | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | 3754.98              | 650332                 |                    |
| 100       | Downlink & Uplink | Low  | /                    | /                      | 30                 |
|           |                   | Mid  | 3750                 | 650000                 |                    |
|           |                   | High | /                    | /                      |                    |



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3450-3550:

| CBW [MHz] | Range             | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |    |
|-----------|-------------------|----------------------|------------------------|--------------------|----|
| 10        | Downlink & Uplink | Low                  | 3455.01                | 630334             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3545.01                | 636334             |    |
| 15        | Downlink & Uplink | Low                  | 3457.5                 | 630500             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3542.49                | 636166             |    |
| 20        | Downlink & Uplink | Low                  | 3460.02                | 630668             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3540                   | 636000             |    |
| 30        | Downlink & Uplink | Low                  | 3465                   | 631000             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3534.99                | 635666             |    |
| 40        | Downlink & Uplink | Low                  | 3470.01                | 631334             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3530.01                | 635334             |    |
| 50        | Downlink & Uplink | Low                  | 3475.02                | 631668             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3525                   | 635000             |    |
| 60        | Downlink & Uplink | Low                  | 3480                   | 632000             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3519.99                | 634666             |    |
| 70        | Downlink & Uplink | Low                  | 3485.01                | 632334             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3515.01                | 634334             |    |
| 80        | Downlink & Uplink | Low                  | 3490.02                | 632668             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3510                   | 634000             |    |
| 90        | Downlink & Uplink | Low                  | 3495                   | 633000             | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | 3504.99                | 633666             |    |
| 100       | Downlink & Uplink | Low                  | \                      | \                  | 30 |
|           |                   | Mid                  | 3500.01                | 633334             |    |
|           |                   | High                 | \                      | \                  |    |



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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 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
3. VBW ≥ 3 x RBW
4. 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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## 4.4 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  $\geq$  1% of the emission bandwidth
4. VBW  $\geq$  3 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq$  2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize



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## 4.5 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 emissions, 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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## 4.6 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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## 4.7 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.

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (}\mu\text{V/m)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$

### Above 1GHz test procedure as below:

- 1) 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:  

$$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$$

$$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8; \text{ where D is the measurement distance in meters}$$
- 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  $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$ .

### 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) - Preampifier (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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## 4.8 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**

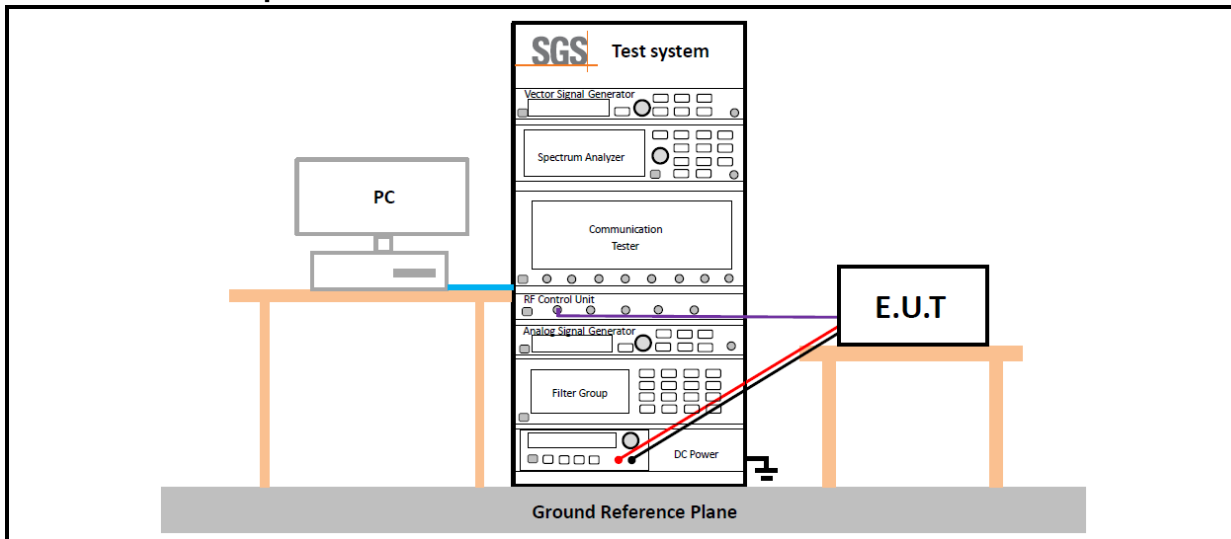


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## 4.9 Test Setups

### 4.9.1 Test Setup 1



### 4.9.2 Test Setup 2

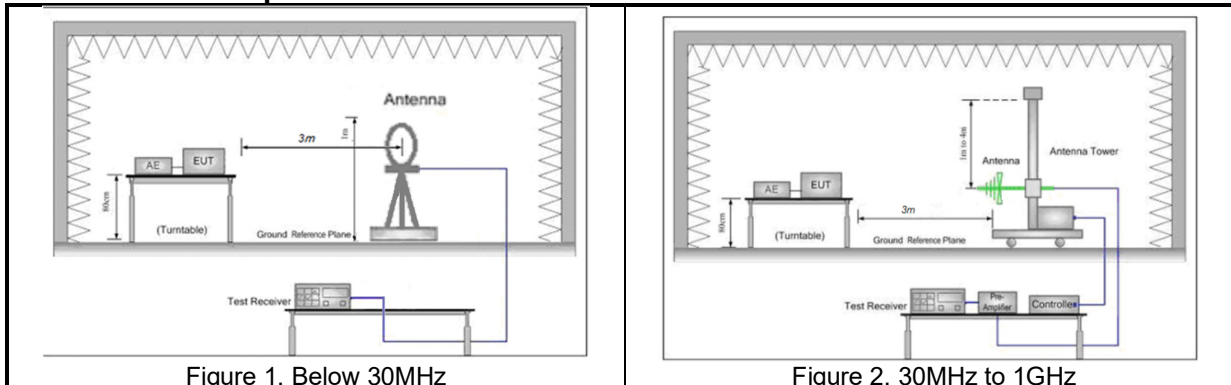


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

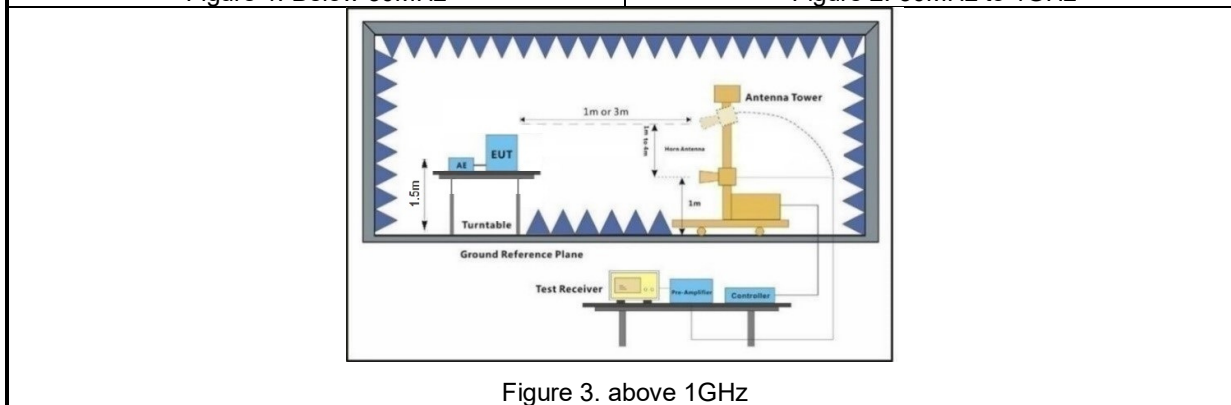


Figure 3. above 1GHz



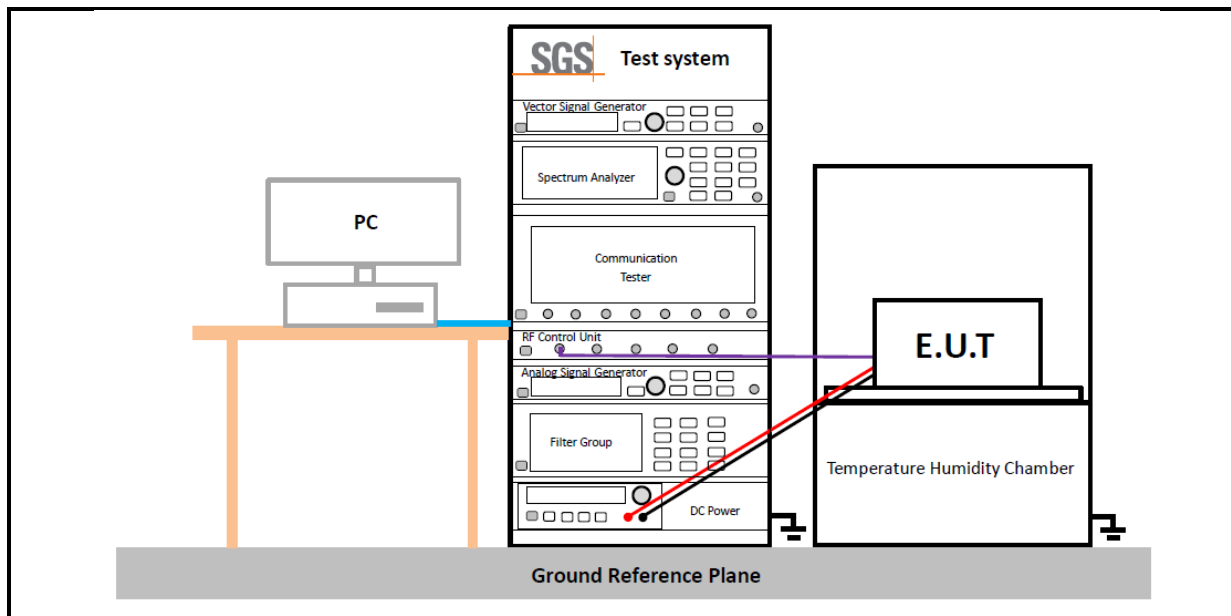
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### 4.9.3 Test Setup 3



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### 4.10 Test Conditions

| Transmit Output Power Data - Average Power, Total |  |
|---|--|
| 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                         |
| 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)                                  | M (M= middle 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)                                  | M (M= middle 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  |
| Test Environment                                  | Ambient Climate & Rated Voltage  |



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



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## 5 Main Test Instruments

| RF conducted test (for report SEWM2307000261RG02 & SEWM2309000395RG02) |               |                                    |               |                        |                            |
|--|---------------|------------------------------------|---------------|------------------------|----------------------------|
| Test Equipment   | Manufacturer  | Model No.                          | Inventory No. | Cal. date (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 | 2023/05/11             | 2024/05/10                 |
| Measurement Software   | Tonscend      | JS1120-3 Test System V 2.6.88.0336 | SUWI-02-09-09 | NCR                    | NCR                        |
| Radio Communication Analyzer   | Anritsu       | MT8821C                            | SUWI-01-26-03 | 2022/11/23             | 2023/11/22                 |
| Wideband Radio 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 Communication Test Ststion                              | Anritsu       | MT8000A                            | SUWI-01-34-02 | 2022/09/16             | 2023/09/15                 |
|  |               |                                    |               | 2023/09/12             | 2024/09/11                 |
| Signal Analyzer  | ROHDE&SCHWARZ | FSW43                              | SUWI-01-02-04 | 2023/05/11             | 2024/05/10                 |



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| RSE Test System (for report SEWM2307000261RG02) |                               |                    |               |                          |                              |
|---|-------------------------------|--------------------|---------------|--------------------------|------------------------------|
| Equipment                                       | Manufacturer                  | Model No.          | Inventory No. | Cal Date<br>(yyyy/mm/dd) | Cal Due Date<br>(yyyy/mm/dd) |
| Semi-Anechoic Chamber                           | Brilliant-emc                 | N/A                | SUWI-04-02-01 | 2021/05/08               | 2024/05/07                   |
| Temperature and humidity meter                  | MingGao                       | TH101B             | SUWI-01-01-05 | 2023/02/07               | 2024/02/06                   |
| Signal Analyzer                                 | ROHDE&SCHWARZ                 | FSW43              | SUWI-01-02-04 | 2023/05/11               | 2024/05/10                   |
| Signal Analyzer                                 | KEYSIGHT                      | N9020A             | SUWI-01-02-05 | 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-ELEKTRONIK | VULB 9163          | SUWI-01-11-01 | 2023/05/13               | 2024/05/12                   |
| Receiving antenna                               | SCHWRZBECK<br>MESS-ELEKTRONIK | BBHA 9120D         | SUWI-01-11-02 | 2023/05/13               | 2024/05/12                   |
| Receiving antenna                               | SCHWRZBECK<br>MESS-ELEKTRONIK | BBHA 9170          | SUWI-01-11-03 | 2023/05/12               | 2024/05/11                   |
| Active Loop Antenna                             | SCHWRZBECK<br>MESS-ELEKTRONIK | FMZB 1519B         | SUWI-01-21-01 | 2023/05/13               | 2024/05/12                   |
| Amplifier                                       | Tonscend                      | TAP9K3G40          | SUWI-01-14-01 | 2023/02/06               | 2024/02/05                   |
| Amplifier                                       | Tonscend                      | TAP01018050        | SUWI-01-14-02 | 2023/02/06               | 2024/02/05                   |
| Amplifier                                       | Tonscend                      | TAP18040048        | SUWI-01-14-03 | 2023/02/08               | 2024/02/07                   |
| Radio Communication Analyzer                    | StarPoint                     | SP9500E            | SUWI-01-28-01 | 2022/09/16               | 2023/09/15                   |
| Measurement Software                            | Tonscend                      | JS32-RE<br>4.0.0.0 | SUWI-02-09-04 | NCR                      | NCR                          |



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| RSE Test System (for report SEWM2309000395RG02) |                               |                    |               |                          |                              |
|---|-------------------------------|--------------------|---------------|--------------------------|------------------------------|
| Equipment                                       | Manufacturer                  | Model No.          | Inventory No. | Cal Date<br>(yyyy/mm/dd) | Cal Due Date<br>(yyyy/mm/dd) |
| Semi-Anechoic Chamber                           | Brilliant-emc                 | N/A                | SUWI-04-02-02 | 2021/11/25               | 2024/11/24                   |
| Temperature and humidity 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 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-ELEKTRONIK | VULB 9168          | SUWI-01-11-04 | 2021/12/05               | 2023/12/04                   |
| Receiving antenna                               | SCHWRZBECK<br>MESS-ELEKTRONIK | BBHA 9120D         | SUWI-01-11-05 | 2021/12/05               | 2023/12/04                   |
| Receiving antenna                               | SCHWRZBECK<br>MESS-ELEKTRONIK | BBHA 9170          | SUWI-01-11-03 | 2023/05/12               | 2024/05/11                   |
| Active Loop Antenna                             | SCHWRZBECK<br>MESS-ELEKTRONIK | FMZB 1519B         | SUWI-01-21-01 | 2023/05/13               | 2024/05/12                   |
| 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 Radio Communication Tester             | Anritsu                       | MT8820C            | SUWI-01-16-08 | 2023/02/06               | 2024/02/05                   |
| Wideband Radio Communication Tester             | Anritsu                       | MT8821C            | SUWI-01-26-03 | 2022/11/23               | 2023/11/22                   |
| UXM 5G Wireless Test Platform                   | KEYSIGHT                      | E7515B             | SUWI-01-04-01 | 2023/02/06               | 2024/02/05                   |
| Measurement Software                            | Tonscend                      | JS32-RE<br>4.0.0.0 | SUWI-02-09-04 | NCR                      | NCR                          |



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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     | $\pm 0.54\text{dB}$     |
| 2   | RF power density, conducted   | $\pm 1.03\text{dB}$     |
| 3   | Spurious emissions, conducted | $\pm 0.54\text{dB}$     |
| 4   | Radio Frequency               | $\pm 1.0\%$             |
| 5   | Duty Cycle                    | $\pm 0.37\%$            |
| 6   | Occupied Bandwidth            | $\pm 1.0\%$             |

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (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.

**For report SEWM2307000261RG02**

| No. | Item              | Measurement Uncertainty            |
|-----|-------------------|------------------------------------|
| 1   | Radiated Emission | $\pm 3.13\text{dB}$ (9k to 30MHz)  |
|     |                   | $\pm 4.8\text{dB}$ (30M to 1GHz)   |
|     |                   | $\pm 4.8\text{dB}$ (1GHz to 18GHz) |
|     |                   | $\pm 4.80\text{dB}$ (Above 18GHz)  |

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (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.

**For report SEWM2309000395RG02**

| No. | Item              | Measurement Uncertainty             |
|-----|-------------------|-------------------------------------|
| 1   | Radiated Emission | $\pm 3.13\text{dB}$ (9k to 30MHz)   |
|     |                   | $\pm 4.88\text{dB}$ (30M to 1GHz)   |
|     |                   | $\pm 4.75\text{dB}$ (1GHz to 18GHz) |
|     |                   | $\pm 4.77\text{dB}$ (Above 18GHz)   |

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (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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## 7 Appendixes

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| Appendix B.17 | NR Band n5             |
| Appendix B.18 | NR Band n7             |
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| Appendix B.22 | NR Band n77(3450-3550) |
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---End of Report---



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