



Report No.: SEWM2308000314RG02
Rev.: 01
Page: 1 of 61

TEST REPORT

Application No.: SEWM2308000314RG
Applicant: Shenzhen Tinno Mobile Technology Corp.
Address of Applicant: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC
Manufacturer: Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC
EUT Description: Smart Phone
Model No.: Celero3 5G
FCC ID: XD6U653DS
Standards: 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 90
47 CFR Part 96
Date of Receipt: 2023/08/19
Date of Test: 2023/09/02 to 2023/10/12
Date of Issue: 2023/10/13

| | |
|---------------------|---------------|
| Test Result: | PASS * |
|---------------------|---------------|

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

Authorized Signature:


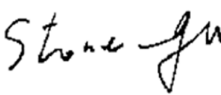
Well Wei
Wireless Laboratory Manager



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1 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023/10/13 | | Original |

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



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2 Test Summary

2.1 NR Band n5/ NR Band n26(824~849 MHz)

| 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&B.20 | Pass |
| Peak-Average Ratio | §22.913(d) | Limit≤13 dB | Section 2 of Appendix B.17&B.20 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.17&B.20 | 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&B.20 | 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&B.20 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §22.917(a) | FCC: ≤ -13 dBm/100 kHz. | Section 6 of Appendix B.17&B.20 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §22.355 | ±2.5ppm. | Section 7 of Appendix B.17&B.20 | Pass |



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2.2 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.22 | Pass |
| Peak-Average Ratio | --- | ≤13 dB | Section 2 of Appendix B.22 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.22 | 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, wdhere 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 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 B.22 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(m) | | Section 5 of Appendix B.22 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(m) | | Section 6 of Appendix B.22 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | Within authorized bands of operation/frequency block. | Section 7 of Appendix B.22 | Pass |



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2.3 NR Band n2/ NR Band n25

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|--|--|---------------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §24.232(c) | EIRP ≤ 2 W | Section 1 of Appendix B.16&B.18 | Pass |
| Peak-Average Ratio | §24.232(d) | Limit ≤ 13 dB | Section 2 of Appendix B.16&B.18 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.16&B.18 | Pass |
| Band Edges Compliance | §2.1051, §24.238(a) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 4 of Appendix B.16&B.18 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §24.238(a) | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 5 of Appendix B.16&B.18 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §24.238(a) | ≤ -13 dBm/1 MHz. | Section 6 of Appendix B.16&B.18 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §24.235 | Within authorized bands of operation/frequency block. | Section 7 of Appendix B.16&B.18 | Pass |



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2.4 NR Band n26(814~824 MHz)

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|--|---|----------------------------|---------|
| Transmitter Conducted Power Output | §2.1046, §90.635(b) | < 100 W. | Section 1 of Appendix B.19 | Pass |
| Peak-Average Ratio | --- | Limits≤13 dB | Section 2 of Appendix B.19 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.19 | Pass |
| Emission Mask | §2.1051 § 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 Log ₁₀ (f/6.1) decibels or 50+10Log ₁₀ (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 Appendix B.19 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §90.691 | < 43 + 10Log ₁₀ (P[Watts]) for all out-of-band emissions | Section 5 of Appendix B.19 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §90.691 | < 43 + 10Log ₁₀ (P[Watts]) for all out-of-band emissions | Section 6 of Appendix B.19 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §90.213 | Within authorized bands of operation/frequency block. | Section 7 of Appendix B.19 | Pass |

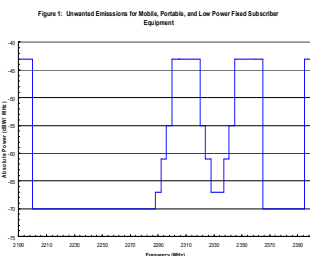


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2.5 NR Band n30

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|-----------------------|--|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(a)(3) | EIRP ≤ 250mW/5MHz | Section 1 of Appendix B.21 | Pass |
| Peak-Average Ratio | --- | FCC: Limits ≤ 13 dB | Section 2 of Appendix B.21 | Pass |
| Bandwidth | §2.1049, | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.21 | Pass |
| Band Edges Compliance | §2.1051, §27.53(a)(4) | ≤ -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(a)(4) | <p>For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:</p> <p>(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;</p> <p>(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies</p> | Section 5 of Appendix B.21 | Pass |



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| | | between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz. | | |
| Field Strength of Spurious Radiation | §2.1053, §27.53(a)(4) | ≤ -40dBm/MHz. | Section 6 of Appendix B.21 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | within the range of the operating frequency blocks | Section 7 of Appendix B.21 | Pass |



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2.6 NR Band n48

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
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| Effective (Isotropic) Radiated Power Output Data | §2.1046, §96.41 | EIRP ≤ 23dBm/10MHz | Section 1 of Appendix B.23 | Pass |
| Peak-Average Ratio | §96.41 | FCC: Limit≤13 dB | Section 2 of Appendix B.23 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.23 | Pass |
| Adjacent Channel Leakage Ratio | §96.41 | the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB. | Section 4 of Appendix B.23 | Pass |
| Band Edges Compliance | §2.1051, §96.41 | for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. | Section 5 of Appendix B.23 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §96.41 | for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz | Section 6 of Appendix B.23 | Pass |



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| | | | | |
|--------------------------------------|-----------------|---|----------------------------|------|
| | | or above 3720 MHz shall not exceed -40dBm/MHz. | | |
| Field Strength of Spurious Radiation | §2.1053, §96.41 | for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz. | Section 7 of Appendix B.23 | Pass |
| Frequency Stability | §2.1055, §96.41 | Within authorized bands of operation/ frequency block. | Section 8 of Appendix B.23 | Pass |



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2.7 NR Band n66/ NR Band n70

| 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.24&B.25 | Pass |
| Peak-Average Ratio | §27.50(d)(5) | Limit ≤ 13 dB | Section 2 of Appendix B.24&B.25 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.24&B.25 | 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.24&B.25 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(h) | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 5 of Appendix B.24&B.25 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(h) | ≤ -13 dBm/1 MHz. | Section 6 of Appendix B.24&B.25 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | Within authorized bands of operation/frequency block. | Section 7 of Appendix B.24&B.25 | Pass |



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2.8 NR Band n71

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|---|--|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046 §27.50(c)(10) | ERP ≤ 3 W | Section 1 of Appendix B.26 | Pass |
| Peak-Average Ratio | --- | Limit ≤ 13 dB | Section 2 of Appendix B.26 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.26 | Pass |
| Band Edges Compliance | §2.1051, §27.53(g) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 4 of Appendix B.26 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(g) | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 5 of Appendix B.26 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(g) | ≤ -13 dBm/1 MHz. | Section 6 of Appendix B.26 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | within the authorized bands of operation. | Section 7 of Appendix B.26 | Pass |



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2.9 NR Band n77

3700-3980MHz:

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict |
|--|---|--|----------------------------|---------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(j)(3) | EIRP ≤ 1W | Section 1 of Appendix B.28 | Pass |
| Peak-Average Ratio | --- | ≤13 dB | Section 2 of Appendix B.28 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.28 | Pass |
| Band Edges Compliance | §2.1051, §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.28 | Pass |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(l)(2) | not exceed -13 dBm/MHz. | Section 5 of Appendix B.28 | Pass |
| Field Strength of Spurious Radiation | §2.1053, §27.53(l)(2) | not exceed -13 dBm/MHz | Section 6 of Appendix B.28 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | Within authorized bands of operation/frequency block. | Section 7 of Appendix B.28 | 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.27 | Pass |
| Peak-Average Ratio | §27.50(k)(4) | FCC: Limit≤13 dB | Section 2 of Appendix B.27 | Pass |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 3 of Appendix B.27 | 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.27 | 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.27 | 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.27 | Pass |
| Frequency Stability | §2.1055(a)(1)(b) §2.1055(d)(2) §27.54 | Within authorized bands of operation/ frequency block. | Section 7 of Appendix B.27 | Pass |



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3 General Information

3.1 Client Information

| | |
|--------------------------|---|
| Applicant: | Shenzhen Tinno Mobile Technology Corp. |
| Address of Applicant: | 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC |
| Manufacturer: | Shenzhen Tinno Mobile Technology Corp. |
| Address of Manufacturer: | 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC |

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)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

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

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

| | | | |
|---|--|-------------------|-------------------|
| EUT Description: | Smart Phone | | |
| Model No.: | Celero3 5G | | |
| Hardware Version: | V1.0 | | |
| Software Version: | N/A | | |
| Power Supply: | Lithium Battery (3.85V) | | |
| IMEI: | RF Conducted | 860284060001673 | |
| | RSE | 860284060010906 | |
| HPUE Power Class: | Class 2: NR Band n41; NR Band n77 | | |
| Antenna Type: | Fixed Internal Antenna | | |
| Antenna Gain: | NR Band n2: | 1.0dBi (Ant2) | |
| | NR Band n5: | -2.3dBi (Ant1) | |
| | NR Band n25: | 1.0dBi (Ant2) | |
| | NR Band n26: | -2.3dBi (Ant1) | |
| | NR Band n30: | -0.6dBi (Ant3) | |
| | NR Band n41: | -0.2dBi (Ant3) | |
| | NR Band n48: | -1.0dBi (Ant5) | |
| | NR Band n66: | 0.2dBi (Ant2) | |
| | NR Band n70: | -0.8dBi (Ant2) | |
| | NR Band n71: | -1.7dBi (Ant1) | |
| | NR Band n77: | 1.0dBi (Ant5) | |
| | Note: 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: 1、 We tested the conducted power and EIRP of all antennas and only provided the worst data. Conducting other test items using the highest power port for testing. 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. | | | |



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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 | 3.85 |
| LTLV | -30 | 3.6 |
| LTHV | -30 | 4.4 |
| HTLV | 50 | 3.6 |
| 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

The EUT has been tested as an independent unit.



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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 n2 | 1850 to 1910 MHz | 1930 to 1990 MHz |
| | NR Band n5 | 824 to 849 MHz | 869 to 894 MHz |
| | NR Band n25 | 1850 to 1915MHz | 1930 to 1995 MHz |
| | NR Band n26 (814 to 824 MHz) | 814 to 824MHz | 859 to 869 MHz |
| | NR Band n26 (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 n41 | 2496 to 2690 MHz | 2496 to 2690 MHz |
| | NR Band n48 | 3550 to 3700 MHz | 3550 to 3700 MHz |
| | NR Band n66 | 1710 to 1780 MHz | 2110 to 2180 MHz |
| | 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 |
| | | 3450 to 3550 MHz | 3450 to 3550 MHz |
| | NR CA: CA_n26A-n66A; CA_n26A-n70A; CA_n66A-n71A; CA_n70A-n71A; ENDC: DC_2A_n5A; DC_30A_n5A; DC_66A_n5A; DC_2A_n66A; DC_12A_n66A; DC_30A_n66A; DC_5A_n2A; DC_30A_n2A; DC_12A_n2A; DC_66A_n2A; DC_66A_n66A; DC_2A_n2A; DC_2A_n77A; DC_5A_n77A; DC_66A_n77A; DC_30A_n77A; DC_12A_n77A; DC_14A_n77A; DC_14A_n66A; DC_14A_n2A; DC_66A_n71A; DC_2A_n71A; DC_2A_n41A; DC_66A_n25A; DC_66A_n41A; Remark: ENDC& NR CA only test RSE, report only show worst mode. | | |
| Supported Channel Bandwidth | NR Band n2 | 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 |
| | | SCS 30kHz: | |
| | 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 |
| | | SCS 30kHz: | |
| <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz | | | |



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| | | | | | |
|-------------|------------|--|--|---|--|
| NR Band n25 | 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 | |
| | SCS 30kHz: | <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 n26 | 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 |
| | SCS 30kHz: | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz | |
| | | | | | |
| NR Band n30 | SCS 15kHz: | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | | |
| | SCS 30kHz: | <input checked="" type="checkbox"/> 10 MHz | | | |
| | | | | | |
| NR Band n41 | SCS 15kHz: | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz | <input checked="" type="checkbox"/> 30 MHz |
| | | <input checked="" type="checkbox"/> 40 MHz | <input checked="" type="checkbox"/> 50 MHz | | |
| | 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 |
| | | <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 | |
| | | | | | |
| NR Band n48 | SCS 15kHz: | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz | <input checked="" type="checkbox"/> 30 MHz |
| | | <input checked="" type="checkbox"/> 40 MHz | | | |
| | 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 |
| | | <input checked="" type="checkbox"/> 40 MHz | | | |
| 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 |
| | | <input checked="" type="checkbox"/> 25 MHz | <input checked="" type="checkbox"/> 30 MHz | <input checked="" type="checkbox"/> 40 MHz | |
| | SCS 30kHz: | <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 n70 | SCS 15kHz: | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | |
| | | | | | |



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| | | | | | |
|---|-------------|-----------------|--|--|--|
| 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.) | NR Band n71 | SCS 30kHz: | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | |
| | | SCS 15kHz: | <input checked="" type="checkbox"/> 5 MHz | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz |
| | NR Band n77 | SCS 30kHz: | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz |
| | | SCS 15kHz: | <input checked="" type="checkbox"/> 10 MHz | <input checked="" type="checkbox"/> 15 MHz | <input checked="" type="checkbox"/> 20 MHz |
| | NR Band n2 | DFT-s-Pi/2-BPSK | CP-16QAM | | |
| | | SCS 15kHz: | | | |
| | | 4M48G7D | 4M49W7D | | |
| | | 8M92G7D | 9M30W7D | | |
| | | 13M4G7D | 14M1W7D | | |
| | NR Band n5 | SCS 15kHz: | | | |
| | | 4M47G7D | 4M47W7D | | |
| | | 8M94G7D | 9M30W7D | | |
| 13M5G7D | | 14M1W7D | | | |
| NR Band n25 | SCS 15kHz: | | | | |
| | 4M48G7D | 4M49W7D | | | |
| | 8M91G7D | 9M30W7D | | | |
| | 13M4G7D | 14M1W7D | | | |
| | 17M9G7D | 18M9W7D | | | |
| | 22M9G7D | 23M7W7D | | | |
| NR Band n26 (814 to 824 MHz) | SCS 15kHz: | | | | |
| | 4M49G7D | 4M47W7D | | | |



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| | | | |
|---------------------------------|------------|---------|---------|
| | | 8M93G7D | 9M31W7D |
| NR Band n26 (824 to 849 MHz) | SCS 15kHz: | | |
| | 4M48G7D | 4M47W7D | |
| | 8M89G7D | 8M91W7D | |
| | 13M4G7D | 14M1W7D | |
| | 17M9G7D | 18M9W7D | |
| NR Band n30 | SCS 15kHz: | | |
| | 4M48G7D | 4M47W7D | |
| | 8M91G7D | 9M30W7D | |
| NR Band n41 | SCS 30kHz: | | |
| | 8M57G7D | 8M61W7D | |
| | 12M8G7D | 13M6W7D | |
| | 17M8G7D | 18M2W7D | |
| | 26M7G7D | 27M8W7D | |
| | 35M8G7D | 37M8W7D | |
| | 45M6G7D | 47M6W7D | |
| | 57M9G7D | 57M6W7D | |
| | 64M4G7D | 67M5W7D | |
| | 77M2G7D | 77M5W7D | |
| | 85M6G7D | 87M6W7D | |
| | 96M4G7D | 97M3W7D | |
| NR Band n48 | SCS 30kHz: | | |
| | 8M58G7D | 8M58W7D | |
| | 12M9G7D | 13M6W7D | |
| | 17M8G7D | 18M3W7D | |
| | 26M7G7D | 27M8W7D | |
| NR Band n66 | 35M7G7D | 37M8W7D | |
| | SCS 15kHz: | | |
| | 4M47G7D | 4M48W7D | |
| | 8M92G7D | 9M26W7D | |
| | 13M4G7D | 14M1W7D | |
| | 17M9G7D | 18M9W7D | |
| | 22M9G7D | 23M7W7D | |
| 28M6G7D | 28M6W7D | | |
| | | 38M5G7D | 38M6W7D |



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| | |
|-----------------------------------|-----------------|
| NR Band n70 | SCS 15kHz: |
| | 4M48G7D 4M48W7D |
| | 8M93G7D 9M28W7D |
| | 13M4G7D 14M1W7D |
| NR Band n71 | SCS 15kHz: |
| | 4M48G7D 4M47W7D |
| | 8M92G7D 9M30W7D |
| | 13M4G7D 14M1W7D |
| | 17M9G7D 18M9W7D |
| NR Band n77 (3450 to 3550 MHz) | SCS 30kHz: |
| | 8M56G7D 8M57W7D |
| | 12M8G7D 13M6W7D |
| | 17M8G7D 18M2W7D |
| | 22M9G7D 23M2W7D |
| | 26M7G7D 27M9W7D |
| | 35M8G7D 37M7W7D |
| | 45M7G7D 47M5W7D |
| | 57M8G7D 57M8W7D |
| | 64M4G7D 67M5W7D |
| | 77M2G7D 77M3W7D |
| | 85M7G7D 87M2W7D |
| NR Band n77 (3700 to 3980 MHz) | SCS 30kHz: |
| | 8M56G7D 8M58W7D |
| | 12M8G7D 13M6W7D |
| | 17M8G7D 18M1W7D |
| | 22M9G7D 23M3W7D |
| | 26M8G7D 27M9W7D |
| | 35M7G7D 37M8W7D |
| | 45M7G7D 47M5W7D |
| | 57M9G7D 57M8W7D |
| | 64M3G7D 67M5W7D |
| | 77M1G7D 77M4W7D |
| | 85M6G7D 87M3W7D |
| 96M3G7D 97M4W7D | |



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



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3.9.1.2 Test frequencies for NR operating band n2 and SCS 30 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 1935 | 387000 | 30 |
| | | Mid | 1960 | 392000 | |
| | | High | 1985 | 397000 | |
| | Uplink | Low | 1855 | 371000 | - |
| | | Mid | 1880 | 376000 | |
| | | High | 1905 | 381000 | |
| 15 | Downlink | Low | 1937.5 | 387500 | 30 |
| | | Mid | 1960 | 392000 | |
| | | High | 1982.5 | 396500 | |
| | Uplink | Low | 1857.5 | 371500 | - |
| | | Mid | 1880 | 376000 | |
| | | High | 1902.5 | 380500 | |
| 20 | Downlink | Low | 1940 | 388000 | 30 |
| | | Mid | 1960 | 392000 | |
| | | High | 1980 | 396000 | |
| | Uplink | Low | 1860 | 372000 | - |
| | | 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 [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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3.9.2.2 Test frequencies for NR operating band n5 and SCS 30 kHz

| Bandwidth [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 874 | 174800 | 30 |
| | | Mid | 881.5 | 176300 | |
| | | High | 889 | 177800 | |
| | Uplink | Low | 829 | 165800 | - |
| | | Mid | 836.5 | 167300 | |
| | | High | 844 | 168800 | |
| 15 | Downlink | Low | 876.5 | 175300 | 30 |
| | | 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 | 30 |
| | | Mid | 881.5 | 176300 | |
| | | High | 884 | 176800 | |
| | Uplink | Low | 834 | 166800 | - |
| | | Mid | 836.5 | 167300 | |
| | | High | 839 | 167800 | |



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3.9.3 Reference test frequencies for NR operating band n25

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

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 5 | Downlink | Low | 1932.5 | 386500 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1992.5 | 398500 | |
| | Uplink | Low | 1852.5 | 370500 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1912.5 | 382500 | |
| 10 | Downlink | Low | 1935 | 387000 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1990 | 398000 | |
| | Uplink | Low | 1855 | 371000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1910 | 382000 | |
| 15 | Downlink | Low | 1937.5 | 387500 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1987.5 | 397500 | |
| | Uplink | Low | 1857.5 | 371500 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1907.5 | 381500 | |
| 20 | Downlink | Low | 1940 | 388000 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1985 | 397000 | |
| | Uplink | Low | 1860 | 372000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1905 | 381000 | |
| 25 | Downlink | Low | 1942.5 | 388500 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1982.5 | 396500 | |
| | Uplink | Low | 1862.5 | 372500 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1902.5 | 380500 | |
| 30 | Downlink | Low | 1945 | 389000 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1980 | 396000 | |
| | Uplink | Low | 1865 | 373000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1900 | 380000 | |
| 40 | Downlink | Low | 1950 | 390000 | 15 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1975 | 395000 | |
| | Uplink | Low | 1870 | 374000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1895 | 379000 | |



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3.9.3.2 Test frequencies for NR operating band n25 and SCS 30 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 1935 | 387000 | 30 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1990 | 398000 | |
| | Uplink | Low | 1855 | 371000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1910 | 382000 | |
| 15 | Downlink | Low | 1937.5 | 387500 | 30 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1987.5 | 397500 | |
| | Uplink | Low | 1857.5 | 371500 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1907.5 | 381500 | |
| 20 | Downlink | Low | 1940 | 388000 | 30 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1985 | 397000 | |
| | Uplink | Low | 1860 | 372000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1905 | 381000 | |
| 25 | Downlink | Low | 1942.5 | 388500 | 30 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1982.5 | 396500 | |
| | Uplink | Low | 1862.5 | 372500 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1902.5 | 380500 | |
| 30 | Downlink | Low | 1945 | 389000 | 30 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1980 | 396000 | |
| | Uplink | Low | 1865 | 373000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1900 | 380000 | |
| 40 | Downlink | Low | 1950 | 390000 | 30 |
| | | Mid | 1962.5 | 392500 | |
| | | High | 1975 | 395000 | |
| | Uplink | Low | 1870 | 374000 | - |
| | | Mid | 1882.5 | 376500 | |
| | | High | 1895 | 379000 | |



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3.9.4 Reference test frequencies for NR operating band n26

3.9.4.1 Test frequencies for NR operating band n26 and SCS 15 kHz

814-824:

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

824-849:

| 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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3.9.4.2 Test frequencies for NR operating band n26 and SCS 30 kHz

814-824:

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 5 | Downlink | Low | 861.5 | 172300 | 30 |
| | | Mid | 864 | 172800 | |
| | | High | 866.5 | 173300 | |
| | Uplink | Low | 816.5 | 163300 | - |
| | | Mid | 819 | 163800 | |
| | | High | 821.5 | 164300 | |
| 10 | Downlink | Low | / | / | 30 |
| | | Mid | 864 | 172800 | |
| | | High | / | / | |
| | Uplink | Low | / | / | - |
| | | Mid | 819 | 163800 | |
| | | High | / | / | |

824-849:

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 874 | 174800 | 30 |
| | | Mid | 881.5 | 176300 | |
| | | High | 889 | 177800 | |
| | Uplink | Low | 829 | 165800 | - |
| | | Mid | 836.5 | 167300 | |
| | | High | 844 | 168800 | |
| 15 | Downlink | Low | 876.5 | 175300 | 30 |
| | | 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 | 30 |
| | | Mid | 881.5 | 176300 | |
| | | High | 884 | 176800 | |
| | Uplink | Low | 834 | 166800 | - |
| | | Mid | 836.5 | 167300 | |
| | | High | 839 | 167800 | |



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3.9.5 Reference test frequencies for NR operating band n30

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

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

3.9.5.2 Test frequencies for NR operating band n30 and SCS 30 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 2355 | 471000 | 30 |
| | | Mid | 2355 | 471000 | |
| | | High | 2355 | 471000 | |
| | Uplink | Low | 2310 | 462000 | - |
| | | Mid | 2310 | 462000 | |
| | | High | 2310 | 462000 | |



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3.9.6 Reference test frequencies for NR operating band n41

3.9.6.1 Test frequencies for NR operating band n41 and SCS 15 kHz

| Bandwidth [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 2501.01 | 500202 | 15 |
| | & | Mid | 2593.005 | 518601 | |
| | Uplink | High | 2685 | 537000 | |
| 15 | Downlink | Low | 2503.5 | 500700 | 15 |
| | & | Mid | 2593.005 | 518601 | |
| | Uplink | High | 2682.495 | 536499 | |
| 20 | Downlink | Low | 2506.005 | 501201 | 15 |
| | & | Mid | 2593.005 | 518601 | |
| | Uplink | High | 2679.99 | 535998 | |
| 30 | Downlink | Low | 2511 | 502200 | 15 |
| | & | Mid | 2593.005 | 518601 | |
| | Uplink | High | 2674.995 | 534999 | |
| 40 | Downlink | Low | 2516.01 | 503202 | 15 |
| | & | Mid | 2593.005 | 518601 | |
| | Uplink | High | 2670 | 534000 | |
| 50 | Downlink | Low | 2521.005 | 504201 | 15 |
| | & | Mid | 2593.005 | 518601 | |
| | Uplink | High | 2664.99 | 532998 | |



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3.9.6.2 Test frequencies for NR operating band n41 and SCS 30 kHz

| Bandwidth [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 2501.01 | 500202 | 30 |
| | & | Mid | 2592.99 | 518598 | |
| | Uplink | High | 2685 | 537000 | |
| 15 | Downlink | Low | 2503.5 | 500700 | 30 |
| | & | Mid | 2592.99 | 518598 | |
| | Uplink | High | 2682.48 | 536496 | |
| 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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3.9.7 Reference test frequencies for NR operating band n48

3.9.7.1 Test frequencies for NR operating band n48 and SCS 15 kHz

| Bandwidth [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 3555 | 637000 | 15 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3694.98 | 646332 | |
| 15 | Downlink | Low | 3557.52 | 637168 | 15 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3692.49 | 646166 | |
| 20 | Downlink | Low | 3560.01 | 637334 | 15 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3690 | 646000 | |
| 30 | Downlink | Low | 3565.02 | 637668 | 15 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3684.99 | 645666 | |
| 40 | Downlink | Low | 3570 | 638000 | 15 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3679.98 | 645332 | |

3.9.7.2 Test frequencies for NR operating band n48 and SCS 30 kHz

| Bandwidth [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 3555 | 637000 | 30 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3694.98 | 646332 | |
| 15 | Downlink | Low | 3557.52 | 637168 | 30 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3692.49 | 646166 | |
| 20 | Downlink | Low | 3560.01 | 637334 | 30 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3690 | 646000 | |
| 30 | Downlink | Low | 3565.02 | 637668 | 30 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3684.99 | 645666 | |
| 40 | Downlink | Low | 3570 | 638000 | 30 |
| | & | Mid | 3624.99 | 641666 | |
| | Uplink | High | 3679.98 | 645332 | |



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3.9.8 Reference test frequencies for NR operating band n66

3.9.8.1 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 | |
| 25 | Downlink | Low | 2122.5 | 424500 | 15 |
| | | Mid | 2145 | 429000 | |
| | | High | 2167.5 | 433500 | |
| | Uplink | Low | 1722.5 | 344500 | - |
| | | Mid | 1745 | 349000 | |
| | | High | 1767.5 | 353500 | |
| 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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3.9.8.2 Test frequencies for NR operating band n66 and SCS 30 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 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 | |
| 25 | Downlink | Low | 2122.5 | 424500 | 15 |
| | | Mid | 2145 | 429000 | |
| | | High | 2167.5 | 433500 | |
| | Uplink | Low | 1722.5 | 344500 | - |
| | | Mid | 1745 | 349000 | |
| | | High | 1767.5 | 353500 | |
| 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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3.9.9 Reference test frequencies for NR operating band n70

3.9.9.1 Test frequencies for NR operating band n70 and SCS 15 kHz

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

3.9.9.2 Test frequencies for NR operating band n70 and SCS 30 kHz

| Bandwidth [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 2000 | 400000 | 30 |
| | | Mid | 2002.5 | 400500 | |
| | | High | 2005 | 401000 | |
| | Uplink | Low | 1700 | 340000 | -- |
| | | Mid | 1702.5 | 340500 | |
| | | High | 1705 | 341000 | |
| 15 | Downlink | Low | / | / | 30 |
| | | Mid | 2002.5 | 400500 | |
| | | High | / | / | |
| | Uplink | Low | / | / | -- |
| | | Mid | 1702.5 | 340500 | |
| | | High | / | / | |



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3.9.10 Reference test frequencies for NR operating band n71

3.9.10.1 Test frequencies for NR operating band n71 and SCS 15 kHz

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



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3.9.10.2 Test frequencies for NR operating band n71 and SCS 30 kHz

| CBW [MHz] | Range | | Carrier centre [MHz] | Carrier centre [ARFCN] | SS block SCS [kHz] |
|-----------|----------|------|----------------------|------------------------|--------------------|
| 10 | Downlink | Low | 622 | 124400 | 30 |
| | | Mid | 634.5 | 126900 | |
| | | High | 647 | 129400 | |
| | Uplink | Low | 668 | 133600 | - |
| | | Mid | 680.5 | 136100 | |
| | | High | 693 | 138600 | |
| 15 | Downlink | Low | 624.5 | 124900 | 30 |
| | | Mid | 634.5 | 126900 | |
| | | High | 644.5 | 128900 | |
| | Uplink | Low | 670.5 | 134100 | - |
| | | Mid | 680.5 | 136100 | |
| | | High | 690.5 | 138100 | |
| 20 | Downlink | Low | 627 | 125400 | 30 |
| | | Mid | 634.5 | 126900 | |
| | | High | 642 | 128400 | |
| | Uplink | Low | 673 | 134600 | - |
| | | Mid | 680.5 | 136100 | |
| | | High | 688 | 137600 | |



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3.9.11 Reference test frequencies for NR operating band n77

3.9.11.1 Test frequencies for NR operating band n77 and SCS 15 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 |
| 25 | Downlink & Uplink | Low | 3712.515 | 647501 |
| | | Mid | 3840 | 656000 |
| | | High | 3967.485 | 664499 |
| 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 |



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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 | 15 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3545.01 | 636334 | |
| 15 | Downlink & Uplink | Low | 3457.5 | 630500 | 15 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3542.49 | 636166 | |
| 20 | Downlink & Uplink | Low | 3460.02 | 630668 | 15 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3540 | 636000 | |
| 25 | Downlink & Uplink | Low | 3462.51 | 630834 | 15 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3537.51 | 635834 | |
| 30 | Downlink & Uplink | Low | 3465 | 631000 | 15 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3534.99 | 635666 | |
| 40 | Downlink & Uplink | Low | 3470.01 | 631334 | 15 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3530.01 | 635334 | |
| 50 | Downlink & Uplink | Low | 3475.02 | 631668 | 15 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3525 | 635000 | |



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3.9.11.2 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 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3975 | 665000 | |
| 15 | Downlink & Uplink | Low | 3707.52 | 647168 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3972.48 | 664832 | |
| 20 | Downlink & Uplink | Low | 3710.01 | 647334 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3969.99 | 664666 | |
| 25 | Downlink & Uplink | Low | 3712.515 | 647501 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3967.485 | 664499 | |
| 30 | Downlink & Uplink | Low | 3714.99 | 647666 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3965.01 | 664334 | |
| 40 | Downlink & Uplink | Low | 3720 | 648000 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3960 | 664000 | |
| 50 | Downlink & Uplink | Low | 3725.01 | 648334 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3954.99 | 663666 | |
| 60 | Downlink & Uplink | Low | 3730.02 | 648668 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3949.98 | 663332 | |
| 70 | Downlink & Uplink | Low | 3735 | 649000 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3945 | 663000 | |
| 80 | Downlink & Uplink | Low | 3740.01 | 649334 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3939.99 | 662666 | |
| 90 | Downlink & Uplink | Low | 3745.02 | 649668 | 30 |
| | | Mid | 3840 | 656000 | |
| | | High | 3934.98 | 662332 | |
| 100 | Downlink & Uplink | Low | 3750 | 650000 | 30 |
| | | 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 | |
| 25 | Downlink & Uplink | Low | 3462.51 | 630834 | 30 |
| | | Mid | 3500.01 | 633334 | |
| | | High | 3537.51 | 635834 | |
| 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.

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

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

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 $\pm 0.00025\%$ (± 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



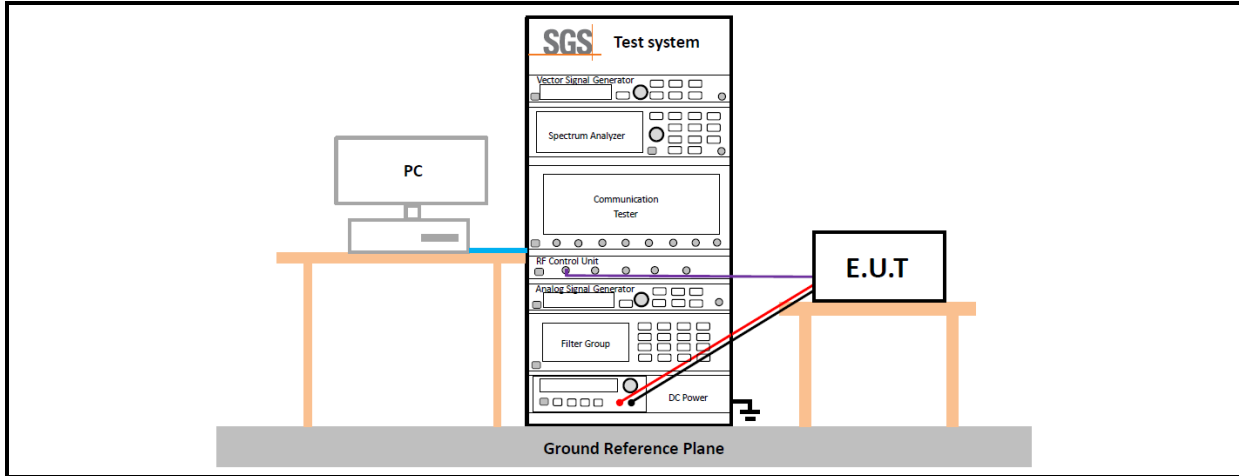
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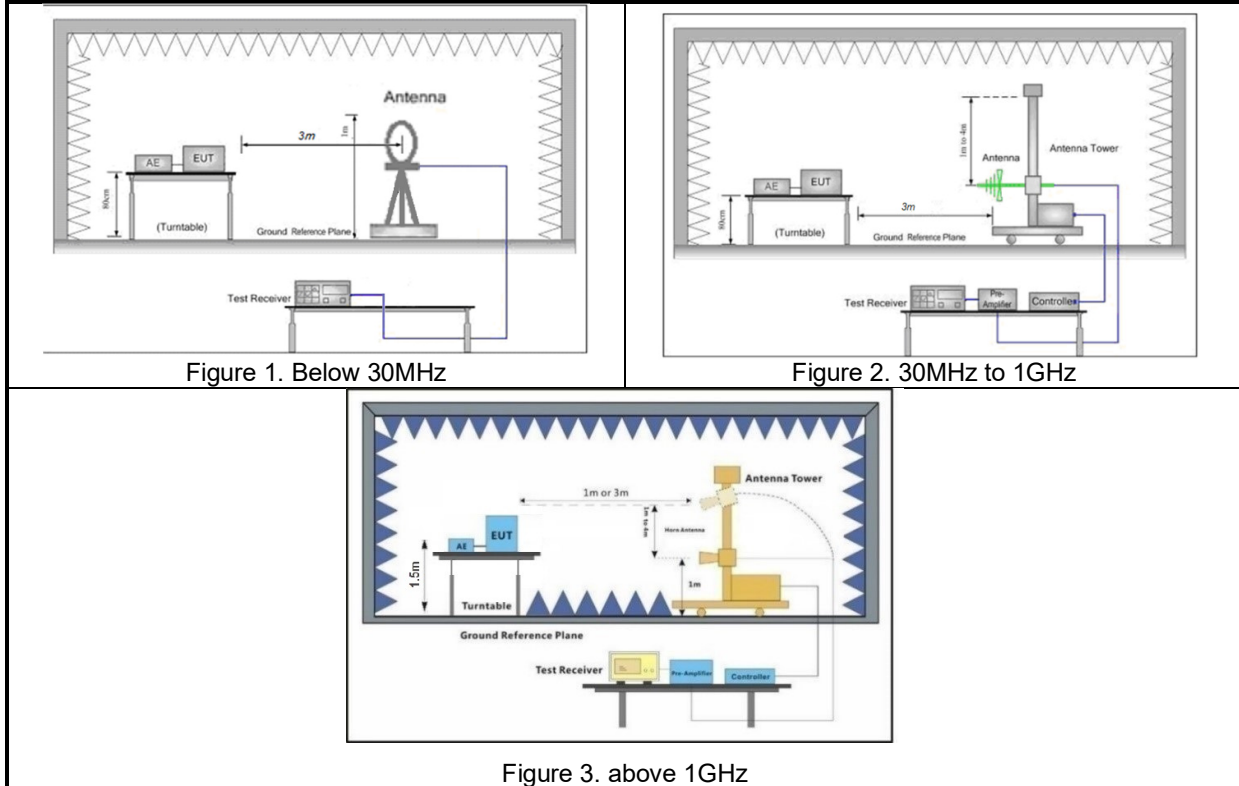
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4.9 Test Setups

4.9.1 Test Setup 1



4.9.2 Test Setup 2



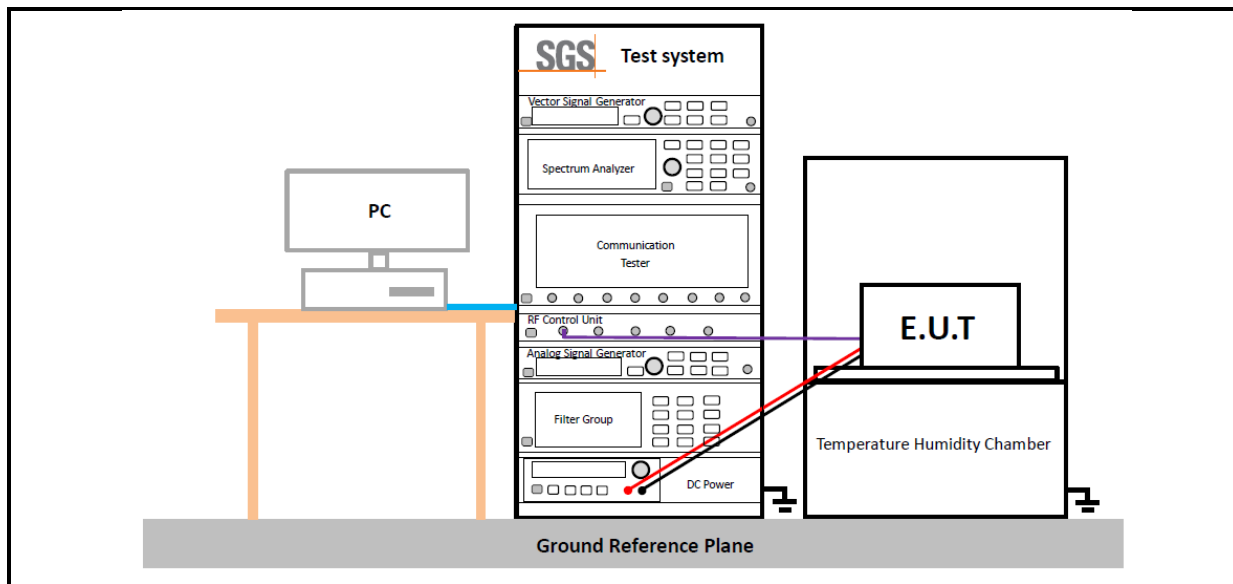
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4.9.3 Test Setup 3



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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 |
| 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 |



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| | |
|---|--|
| 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) |
| Test Mode | NR/TM1; NR/TM6 The report only show the bandwidth with the worst case. |



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5 Main Test Instruments

| RF conducted test | | | | | |
|--|---------------|------------------------------------|---------------|------------------------|----------------------------|
| 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 Sttion | 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 | | | | | |
|-------------------------------------|----------------------------|-----------------|---------------|--------------------------|------------------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date (yyyy/mm/dd) | Cal Due Date (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 | 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 |
| DC Power Supply | HYELEC | HY3005B | SUWI-01-18-01 | 2023/02/06 | 2024/02/05 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2023/05/12 | 2024/05/11 |
| Active Loop Antenna | SCHWRZBECK 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 |
| Wideband Radio Communication Tester | Anritsu | MT8820C | SUWI-01-16-08 | 2023/02/06 | 2024/02/05 |
| UXM 5G Wireless Test Platform | KEYSIGHT | E7515B | SUWI-01-04-01 | 2023/02/06 | 2024/02/05 |
| Measurement Software | Tonscend | JS32-RE 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 | $\pm 1.0\%$ |
| 7 | Radiated Emission | $\pm 3.13\text{dB}$ (9k -30MHz) |
| | | $\pm 4.8\text{dB}$ (30M -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 $U_{\text{CISPR/ETSI}}$ (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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7 Appendixes

| | |
|---------------|------------------------|
| Appendix A.3 | WWAN Setup Photos |
| Appendix B.16 | NR Band n2 |
| Appendix B.17 | NR Band n5 |
| Appendix B.18 | NR Band n25 |
| Appendix B.19 | NR Band n26(814-824) |
| Appendix B.20 | NR Band n26(824-849) |
| Appendix B.21 | NR Band n30 |
| Appendix B.22 | NR Band n41 |
| Appendix B.23 | NR Band n48 |
| Appendix B.24 | NR Band n66 |
| Appendix B.25 | NR Band n70 |
| Appendix B.26 | NR Band n71 |
| Appendix B.27 | NR Band n77(3450-3550) |
| Appendix B.28 | NR Band n77(3700-3980) |

---End of Report---



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