

# TEST REPORT

of

FCC Part 2 Subpart J, Part 27 Subpart C and Part 96 Subpart E  
IC RSS-192 Issue 5, RSS-198 Issue 1,  
RSS-Gen Issue 5

FCC ID: BEJTM16FNNABM0  
IC Certification: 2703H-TM16FNNABM0

Equipment Under Test : Telematics Module

Model Name : TM16FNNABM0

Variant Model Name(s) : -

Applicant : FCC: LG Electronics USA, Inc.  
IC: LG ELECTRONICS INC.

Manufacturer : LG Electronics Inc.

Date of Receipt : 2023.12.13

Date of Test(s) : 2023.12.13 ~ 2024.10.15

Date of Issue : 2024.10.17

In the configuration tested, the EUT complied with the standards specified above. This test report does not assure KOLAS accreditation.

- 1) The results of this test report are effective only to the items tested.
- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
- 3) This test report cannot be reproduced, except in full, without prior written permission of the Company.
- 4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.

We are responsible for all the information of this test report except for the data(※) provided by the customer.

Tested by:



Hahyun Sung

Technical  
Manager:



Jinhyoung Cho

**SGS Korea Co., Ltd. Gunpo Laboratory**

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## 1. General Information

### 1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

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- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>.

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### 1.2. Details of Applicant

FCC Applicant : LG Electronics USA, Inc.

FCC Address : 111 Sylvan Avenue, North Building, Englewood Cliffs, New Jersey, United States, 07632

IC Applicant : LG ELECTRONICS INC.

IC Address : 222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea (Republic of), 451-713

Contact Person : Kim, David

Phone No. : +1 201 470 2696

### 1.3. Details of Manufacturer

Company : LG Electronics Inc.

Address : 128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea, 07336

### 1.4. Description of EUT

|                      |                                                                                                                                                                                                                                                                                                                                      |              |              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Kind of Product      | Telematics Module                                                                                                                                                                                                                                                                                                                    |              |              |
| Model Name           | TM16FNNABM0                                                                                                                                                                                                                                                                                                                          |              |              |
| Serial Number        | Conducted: FCC_04<br>Radiated: FCC Rad_02                                                                                                                                                                                                                                                                                            |              |              |
| Power Supply         | DC 4.10 V                                                                                                                                                                                                                                                                                                                            |              |              |
| Rated Power          | NR Band 48: 20 dB m<br>NR Band 77: 25 dB m<br>NR Band 78: 23 dB m                                                                                                                                                                                                                                                                    |              |              |
| Frequency Range      | NR Band 48: 3 550 MHz ~ 3 700 MHz<br>NR Band 77(FCC): 3 450 MHz ~ 3 550 MHz<br>NR Band 77(FCC): 3 700 MHz ~ 3 980 MHz<br>NR Band 78(FCC): 3 450 MHz ~ 3 550 MHz<br>NR Band 78(FCC): 3 700 MHz ~ 3 800 MHz<br>NR Band 77(IC): 3 450 MHz ~ 3 900 MHz<br>NR Band 77(IC): 3 900 MHz ~ 3 980 MHz<br>NR Band 78(IC): 3 450 MHz ~ 3 800 MHz |              |              |
| Modulation Technique | BPSK, QPSK, 16QAM, 64QAM, 256QAM                                                                                                                                                                                                                                                                                                     |              |              |
| Antenna Type         | Ant. 1: PIFA                                                                                                                                                                                                                                                                                                                         | Ant. 2: PIFA | Ant. 3: PIFA |
| Antenna Gain*        | Refer to the clause 1.13                                                                                                                                                                                                                                                                                                             |              |              |
| H/W Version          | Rev.D                                                                                                                                                                                                                                                                                                                                |              |              |
| S/W Version          | IN25XA06                                                                                                                                                                                                                                                                                                                             |              |              |
| FVIN                 | N/A                                                                                                                                                                                                                                                                                                                                  |              |              |

## 1.5. Test Equipment List

| Equipment              | Manufacturer                | Model                                | S/N                    | Cal. Date     | Cal. Interval | Cal. Due      |
|------------------------|-----------------------------|--------------------------------------|------------------------|---------------|---------------|---------------|
| Spectrum Analyzer      | R&S                         | FSV30                                | 100955                 | Mar. 08, 2024 | Annual        | Mar. 08, 2025 |
| Spectrum Analyzer      | R&S                         | FSW43                                | 100637                 | Apr. 08, 2024 | Annual        | Apr. 08, 2025 |
| Spectrum Analyzer      | R&S                         | N9030A                               | US51350132             | Nov. 27, 2023 | Annual        | Nov. 27, 2024 |
| Signal Generator       | Agilent                     | E8257D                               | MY51501169             | Apr. 23, 2024 | Annual        | Apr. 23, 2025 |
| DC Power Supply        | R&S                         | HMP2020                              | 102133                 | Apr. 23, 2024 | Annual        | Apr. 23, 2025 |
| Power Meter            | Anritsu                     | ML2495A                              | 1223004                | May 29, 2024  | Annual        | May 29, 2025  |
| Power Sensor           | Anritsu                     | MA2411B                              | 1207272                | May 29, 2024  | Annual        | May 29, 2025  |
| Communication Analyzer | Anritsu                     | MT8821C                              | 6262094325             | Mar. 05, 2024 | Annual        | Mar. 05, 2025 |
| Communication Analyzer | Anritsu                     | MT8000A                              | 6261867312             | Apr. 08, 2024 | Annual        | Apr. 08, 2025 |
| Power Divider          | KRYTAR                      | 6005265                              | 158078                 | May 23, 2024  | Annual        | May 23, 2025  |
| Directional Coupler    | KRYTAR                      | 152613                               | 140973                 | Jun. 07, 2024 | Annual        | Jun. 07, 2025 |
| BRIDGE Coupler         | MARK MICROWAVE INC          | CBR16-0012                           | 1542                   | May 13, 2024  | Annual        | May 13, 2025  |
| Power Splitter         | Weinschel                   | 1534                                 | 499                    | Nov. 03, 2023 | Annual        | Nov. 03, 2024 |
| Preamplifier           | H.P.                        | 8447F                                | 2944A03909             | Aug. 09, 2024 | Annual        | Aug. 09, 2025 |
| Low Pass Filter        | Mini-Circuits               | NLP-1200+                            | 8979400903-1           | May 17, 2024  | Annual        | May 17, 2025  |
| High Pass Filter       | Wainwright Instrument GmbH  | WHKX10-900-1000-18000-40SS           | 7                      | Feb. 27, 2024 | Annual        | Feb. 27, 2025 |
| High Pass Filter       | Wainwright Instrument GmbH  | WHKX3.0/18G-10SS                     | 21                     | Jun. 07, 2024 | Annual        | Jun. 07, 2025 |
| High Pass Filter       | Wainwright Instrument GmbH  | WHNX7.5/26.5G-6SS                    | 11                     | Oct. 16, 2024 | Annual        | Oct. 16, 2025 |
| High Pass Filter       | Wainwright Instrument GmbH  | WLKX10-3555-4500-26500-40CD          | 1                      | Nov. 03, 2023 | Annual        | Nov. 03, 2024 |
| Preamplifier           | H.P.                        | 8447F                                | 2944A03909             | Aug. 09, 2024 | Annual        | Aug. 09, 2025 |
| Preamplifier           | R&S                         | SCU 18F                              | 101058                 | Dec. 07, 2023 | Annual        | Dec. 07, 2024 |
| Preamplifier           | TESTEK                      | TK-PA1840H                           | 13016                  | Mar. 08, 2024 | Annual        | Mar. 08, 2025 |
| Test Receiver          | R&S                         | ESU26                                | 100109                 | Jan. 16, 2024 | Annual        | Jan. 16, 2025 |
| Loop Antenna           | Schwarzbeck Mess-Elektronik | FMZB 1519                            | 1519-039               | Aug. 21, 2023 | Biennial      | Aug. 21, 2025 |
| Bilog Antenna          | Schwarzbeck Mess-Elektronik | VULB9163                             | 9163-396               | Apr. 02, 2024 | Biennial      | Apr. 02, 2026 |
| Horn Antenna           | R&S                         | HF906                                | 100326                 | Feb. 19, 2024 | Annual        | Feb. 19, 2025 |
| Horn Antenna           | Schwarzbeck Mess-Elektronik | BBHA 9170                            | 9170-540               | Dec. 05, 2023 | Annual        | Dec. 05, 2024 |
| Antenna Master         | Innco systems GmbH          | MA4640-XP-ET                         | MA4640/536/383 30516/L | N.C.R.        | N/A           | N.C.R.        |
| Turn Table             | Innco systems GmbH          | DS 1200S                             | N/A                    | N.C.R.        | N/A           | N.C.R.        |
| Controller             | Innco systems GmbH          | CONTROLLER CO3000-4P                 | CO3000/963/383 30516/L | N.C.R.        | N/A           | N.C.R.        |
| Anechoic Chamber       | SY Corporation              | L × W × H<br>(9.6 m × 6.4 m × 6.6 m) | N/A                    | N.C.R.        | N/A           | N.C.R.        |
| Coaxial Cable          | RADIALL                     | TESTPRO 3                            | 182287                 | Oct. 11, 2024 | Semi-Annual   | Apr. 11, 2025 |
| Coaxial Cable          | RADIALL                     | TESTPRO 3                            | 182288                 | Oct. 11, 2024 | Semi-Annual   | Apr. 11, 2025 |
| Coaxial Cable          | RADIALL                     | TESTPRO 3                            | 182291                 | Oct. 11, 2024 | Semi-Annual   | Apr. 11, 2025 |
| Coaxial Cable          | RF ONE                      | NMST-13A26-NMST-5m                   | TPC2402190004          | Oct. 04, 2024 | Semi-Annual   | Apr. 04, 2025 |
| Coaxial Cable          | RF ONE                      | NMST-13A26-NMST-10m                  | TPC2402190001          | Oct. 04, 2024 | Semi-Annual   | Apr. 04, 2025 |

## 1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 2, 27 and 96<br>IC RSS-Gen Issue 5, RSS-192 Issue 5 and RSS-198 Issue 1 |                                                                    |                                              |        |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------|--------|
| Section(s) in FCC                                                                                  | Section(s) in IC                                                   | Test Item                                    | Result |
| §2.1046<br>§27.50(j)(3)<br>§27.50(k)(3)<br>§96.41(b)                                               | RSS-192 Issue 5 5.5<br>RSS-198 Issue 1 5.5                         | E.R.P. / E.I.R.P.                            | Pass   |
| §27.53(l)(2)<br>§27.53(n)(2)<br>§96.41(e)(ii)                                                      | RSS-192 Issue 5 5.6<br>RSS-198 Issue 1 5.6                         | Spurious Radiated Emission                   | Pass   |
| §2.1046                                                                                            | RSS-Gen Issue 5 6.12                                               | Conducted Output Power                       | Pass   |
| §2.1049                                                                                            | RSS-Gen Issue 5 6.7                                                | Occupied Bandwidth                           | Pass   |
| §27.53(j)(4)<br>§27.53(k)(4)<br>§96.41(g)                                                          | RSS-192 Issue 5 5.5<br>RSS-198 Issue 1 5.5                         | Peak-Average Ratio                           | Pass   |
| §27.53(l)(2)<br>§27.53(n)(2)<br>§96.41(e)(ii)                                                      | RSS-192 Issue 5 5.6<br>RSS-198 Issue 1 5.6                         | Spurious Emission at Antenna Terminal        | Pass   |
| §27.53(l)(2)<br>§27.53(n)(2)<br>§96.41(e)(ii)                                                      | RSS-192 Issue 5 5.6<br>RSS-198 Issue 1 5.6                         | Band Edge and Adjacent channel Leakage ratio | Pass   |
| §2.1055<br>§27.54                                                                                  | RSS-Gen Issue 5 6.11<br>RSS-192 Issue 5 5.4<br>RSS-198 Issue 1 5.4 | Frequency Stability                          | Pass   |

### Note;

- All test items were performed on Uplink MIMO condition without n77 band.
- The n77 band operates in both DFT-S-OFDM and CP-OFDM.
- In case of n77, it was tested under the worst condition between Tx Diversity and Uplink MIMO on CP-OFDM.

|                     | n77 Low Band<br>(FCC) (dB m) | n77 High Band<br>(FCC) (dB m) | n77 Low Band<br>(IC) (dB m) | n77 High Band<br>(IC) (dB m) |
|---------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|
| <b>Tx Diversity</b> | <b>24.47</b>                 | <b>24.34</b>                  | <b>24.49</b>                | <b>24.55</b>                 |
| <b>Uplink MIMO</b>  | <b>23.77</b>                 | <b>23.21</b>                  | <b>23.31</b>                | <b>23.01</b>                 |

## 1.7. Sample Calculation for Offset

Where relevant, the following sample calculation is provided:

### 1.7.1. Conducted Test

Offset value (dB) = Directional Coupler (dB) + Cable loss (dB)

### 1.7.2. Radiation test

- E.I.R.P. (dB m) = Measured level (dB $\mu$ V) + Antenna factor (dB/m) + Cable loss (dB) + 20 Log D - 104.8;  
where D is the measurement distance in meters.
- E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB)

## 1.8. Manufacturer Declaration

The EUT has three antennas, antennas 1 and 2 are the main antennas, and antenna 3 can be switched to the main antenna 1. Antennas 1 and 3 are use the same module output port and are operated by switching. The EUT can be transmitted simultaneously to antennas 1 and 2 in TX diversity and MIMO modes. MIMO mode is supporting only CP-OFDM mode on LTE Band 48, NR Band 48, 77 and 78. TX diversity mode is supporting DFT-S-OFDM and CP-OFDM on NR Band 77.

## 1.9. Worst Case Configuration and Mode

The worst-case is based on the conducted output power measurement investigation results. All testing was performed using BPSK, QPSK, 16QAM, 64QAM and 256QAM modulations. However, the spurious radiated emission and spurious at antenna terminal were only performed on bandwidth and RB offset (with RB size 1) with the highest conducted power.

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z, and the worst case data is reported.

## 1.10. Measurement Configuration

| Test Items                                                 | Band | Test Channel |     |      | Bandwidth (MHz) |    |    |    |    |    |    |    |    |    |    |    |     |      | Modulation DFT-S-OFDM |       |       |        |      | Modulation CP-OFDM |       |        |   | RB # |      |   |  |
|------------------------------------------------------------|------|--------------|-----|------|-----------------|----|----|----|----|----|----|----|----|----|----|----|-----|------|-----------------------|-------|-------|--------|------|--------------------|-------|--------|---|------|------|---|--|
|                                                            |      | Low          | Mid | High | 5               | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | BPSK | QPSK                  | 16QAM | 64QAM | 256QAM | QPSK | 16QAM              | 64QAM | 256QAM | 1 | Half | Full |   |  |
| Conducted Output Power                                     | n48  | V            | V   | V    |                 |    |    | V  |    | V  | V  |    |    |    |    |    |     | -    | -                     | -     | -     | -      | V    | V                  | V     | V      | V | V    | V    | V |  |
|                                                            | n77  | V            | V   | V    |                 |    |    | V  |    | V  | V  | V  | V  | V  | V  | V  | V   | V    | V                     | V     | V     | V      | V    | V                  | V     | V      | V | V    | V    | V |  |
|                                                            | n78  | V            | V   | V    |                 |    |    | V  |    | V  | V  | V  | V  | V  | V  | V  | V   | -    | -                     | -     | -     | -      | V    | V                  | V     | V      | V | V    | V    | V |  |
| Frequency Stability                                        | n48  | -            | V   | -    |                 |    |    | V  |    | -  | -  |    |    |    |    |    |     | -    | -                     | -     | -     | -      | V    | -                  | -     | -      | - | -    | -    | V |  |
|                                                            | n77  | -            | V   | -    |                 |    |    | V  |    | -  | -  | -  | -  | -  | -  | -  | -   | -    | V                     | -     | -     | -      | -    | -                  | -     | -      | - | -    | -    | V |  |
|                                                            | n78  | -            | V   | -    |                 |    |    | V  |    | -  | -  | -  | -  | -  | -  | -  | -   | -    | -                     | -     | -     | -      | V    | -                  | -     | -      | - | -    | -    | V |  |
| Occupied Bandwidth                                         | n48  | V            | V   | V    |                 |    |    | V  |    | V  | V  |    |    |    |    |    |     | -    | -                     | -     | -     | -      | V    | V                  | -     | -      | - | -    | -    | V |  |
|                                                            | n77  | V            | V   | V    |                 |    |    | V  |    | V  | V  | V  | V  | V  | V  | V  | V   | V    | V                     | V     | -     | -      | V    | V                  | -     | -      | - | -    | -    | V |  |
|                                                            | n78  | V            | V   | V    |                 |    |    | V  |    | V  | V  | V  | V  | V  | V  | V  | V   | -    | -                     | -     | -     | -      | V    | V                  | -     | -      | - | -    | -    | V |  |
| Peak-to-Average Ratio                                      | n48  | V            | V   | V    |                 |    |    | V  |    | V  | V  |    |    |    |    |    |     | -    | -                     | -     | -     | -      | V    | V                  | V     | V      | V | -    | -    | V |  |
|                                                            | n77  | V            | V   | V    |                 |    |    | V  |    | V  | V  | V  | V  | V  | V  | V  | V   | V    | V                     | V     | V     | V      | V    | V                  | V     | V      | V | -    | -    | V |  |
|                                                            | n78  | V            | V   | V    |                 |    |    | V  |    | V  | V  | V  | V  | V  | V  | V  | V   | -    | -                     | -     | -     | -      | V    | V                  | V     | V      | V | -    | -    | V |  |
| Band edge                                                  | n48  | V            | V   | V    |                 |    |    | V  |    | V  | V  |    |    |    |    |    |     | -    | -                     | -     | -     | -      | V    | V                  | -     | -      | - | -    | -    | V |  |
|                                                            | n77  | V            | -   | V    |                 |    |    | V  |    | V  | V  | V  | V  | V  | V  | V  | V   | V    | V                     | V     | -     | -      | V    | V                  | -     | -      | - | -    | -    | V |  |
|                                                            | n78  | V            | -   | V    |                 |    |    | V  |    | V  | V  | V  | V  | V  | V  | V  | V   | -    | -                     | -     | -     | -      | V    | V                  | -     | -      | - | -    | -    | V |  |
| Spurious at antenna terminal & Radiated Spurious Emissions | n48  | V            | V   | V    | Worst case      |    |    |    |    |    |    |    |    |    |    |    |     |      |                       |       |       |        |      |                    |       |        |   |      |      |   |  |
|                                                            | n77  | V            | V   | V    | Worst case      |    |    |    |    |    |    |    |    |    |    |    |     |      |                       |       |       |        |      |                    |       |        |   |      |      |   |  |
|                                                            | n78  | V            | V   | V    | Worst case      |    |    |    |    |    |    |    |    |    |    |    |     |      |                       |       |       |        |      |                    |       |        |   |      |      |   |  |

Note;

- All measurement was performed with 1RB or FULL RB or both, we chosen RB condition for each test items as worst case.

## Radiated / Conducted Emission Test

| NR Band           | SCS (kHz) | Bandwidth (MHz) | Modulation        | Resource Block Allocation |
|-------------------|-----------|-----------------|-------------------|---------------------------|
|                   |           |                 |                   | RBs allocated             |
| n48               | 30        | 40              | CP OFDM - QPSK    | 1                         |
| n77 Low Band FCC  | 30        | 50              | DFT-S OFDM - QPSK | 1                         |
| n77 High Band FCC | 30        | 50              | DFT-S OFDM - QPSK | 1                         |
| n78 Low Band FCC  | 30        | 50              | CP OFDM - QPSK    | 1                         |
| n78 High Band FCC | 30        | 50              | CP OFDM - QPSK    | 1                         |
| n77 Low Band IC   | 30        | 50              | DFT-S OFDM - QPSK | 1                         |
| n77 High Band IC  | 30        | 50              | DFT-S OFDM - QPSK | 1                         |
| n78 IC            | 30        | 50              | CP OFDM - QPSK    | 1                         |

### 1.11. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Parameter                          | Uncertainty |         |
|------------------------------------|-------------|---------|
| Conducted Output Power             | 0.33 dB     |         |
| Occupied Bandwidth                 | 0.05 MHz    |         |
| Conducted Spurious Emissions       | 0.99 dB     |         |
| Peak to Average Ratio              | 0.66 dB     |         |
| Frequency Stability                | 116 Hz      |         |
| Radiated Emission, 9 kHz to 30 MHz | H           | 3.60 dB |
|                                    | V           | 3.60 dB |
| Radiated Emission, below 1 GHz     | H           | 4.60 dB |
|                                    | V           | 4.90 dB |
| Radiated Emission, above 1 GHz     | H           | 3.90 dB |
|                                    | V           | 3.80 dB |

All measurement uncertainty values are shown with a coverage factor of  $k=2$  to indicate a 95 % level of confidence.

### 1.12. Test Report Revision

| Revision | Report Number        | Date of Issue | Description |
|----------|----------------------|---------------|-------------|
| 0        | F690501-RF-RTL005479 | 2024.10.17    | Initial     |

### 1.13. Antenna Information

| Ant. No.       | Ant. Type | Frequency Range            | Support Band                                          |                                            |       |
|----------------|-----------|----------------------------|-------------------------------------------------------|--------------------------------------------|-------|
|                |           |                            | LTE                                                   | NR                                         | WCDMA |
| Ant. 1         | PIFA      | Below 3 GHz<br>Above 3 GHz | 2, 4, 5, 7, 12, 13, 17, 25,<br>26, 38, 42, 48, 66, 71 | 2, 5, 7, 12, 25, 41,<br>48, 66, 71, 77, 78 | II, V |
| Ant. 2         | PIFA      | Above 3 GHz                | 42, 48                                                | 48, 77, 78                                 |       |
| Ant. 3         | PIFA      | Below 3 GHz<br>Above 3 GHz | 2, 4, 5, 7, 12, 13, 17, 25,<br>26, 38, 42, 48, 66, 71 | 2, 5, 7, 12, 25, 41,<br>48, 66, 71, 77, 78 | II, V |
| Ant.1 + Ant. 2 | PIFA      | Above 3 GHz                |                                                       | 48, 77, 78                                 |       |

**Note;**

- Ant. 1 and Ant. 3 are in switching.

| Band                            | Operating Frequency (MHz) | Antenna Peak Gain (dB i) |        |        |                    |
|---------------------------------|---------------------------|--------------------------|--------|--------|--------------------|
|                                 |                           | Ant. 1                   | Ant. 2 | Ant. 3 | Ant. 1 + Ant. 2    |
| LTE 25/2<br>WCDMA II<br>NR 25/2 | 1 850 ~ 1 915             | 1.86                     |        | -0.32  |                    |
| LTE 66/4<br>NR 66               | 1 710 ~ 1 780             | 1.37                     |        | -0.03  |                    |
| LTE 26/5<br>WCDMA V<br>NR 5     | 824 ~ 849                 | -2.43                    |        | -3.16  |                    |
| LTE 7<br>NR 7                   | 2 500 ~ 2 570             | 0.92                     |        | 2.79   |                    |
| LTE 12/17<br>NR 12              | 699 ~ 716                 | -3.98                    |        | -1.20  |                    |
| LTE 13                          | 777 ~ 787                 | -4.60                    |        | -3.16  |                    |
| LTE 26                          | 814 ~ 824                 | -2.43                    |        | -3.16  |                    |
| LTE 38                          | 2 570 ~ 2 620             | 0.92                     |        | 2.79   |                    |
| LTE 42                          | 3 450 ~ 3 600             | -0.66                    | -1.37  | 0.96   |                    |
| LTE 48                          | 3 550 ~ 3 700             | -0.66                    | -1.37  | 0.96   |                    |
| NR 48                           | 3 550 ~ 3 700             | -0.66                    | -1.37  | 0.96   | <u><b>2.00</b></u> |
| LTE 71<br>NR 71                 | 663 ~ 698                 | -2.45                    |        | -1.60  |                    |
| NR 41                           | 2 496 ~ 2 690             | 0.92                     |        | 2.79   |                    |
| NR 77                           | 3 450 ~ 3 550             | 0.34                     | 0.12   | 1.58   | <u><b>3.24</b></u> |
|                                 | 3 700 ~ 3 980             | 0.34                     | 0.12   | 1.58   | <u><b>3.24</b></u> |
| NR 78                           | 3 450 ~ 3 550             | 0.34                     | 0.12   | 1.58   | <u><b>3.24</b></u> |
|                                 | 3 700 ~ 3 800             | 0.34                     | 0.12   | 1.58   | <u><b>3.24</b></u> |

**Remark;**

1) According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)d)(i),  
Port 1 + Port 2 Antenna Gain =  $10 * \log[(10^{G_1/20} + 10^{G_2/20})^2 / N_{ANT}]$

Where,

$G_1$  = antenna gain of port 1,  
 $G_2$  = antenna gain of port 2,  
 $N_{ANT}$  = the number of antennas

#### 1.14. Emission Designator and Max Power

| Band | Band width (MHz) | Modulation |       | Low Freq. (MHz) | Upper Freq. (MHz) | Conducted Average (dB m) | Ant. Gain (dB i) | E.R.P. / E.I.R.P. Average (dB m) | E.R.P. / E.I.R.P. Average (W) | Emission Designator |
|------|------------------|------------|-------|-----------------|-------------------|--------------------------|------------------|----------------------------------|-------------------------------|---------------------|
| n48  | 20               | CP OFDM    | QPSK  | 3 560.01        | 3 690.00          | 20.71                    | 2.00             | 22.71                            | 0.187                         | 18M3G7D             |
|      |                  |            | 16QAM |                 |                   | 20.01                    |                  | 22.01                            | 0.159                         | 18M3D7D             |
|      | 30               | CP OFDM    | QPSK  | 3 565.02        | 3 684.99          | 20.88                    |                  | 22.88                            | 0.194                         | 27M9G7D             |
|      |                  |            | 16QAM |                 |                   | 20.11                    |                  | 22.11                            | 0.163                         | 27M9D7D             |
|      | 40               | CP OFDM    | QPSK  | 3 570.00        | 3 679.98          | 20.90                    |                  | 22.90                            | 0.195                         | 38M0G7D             |
|      |                  |            | 16QAM |                 |                   | 20.12                    |                  | 22.12                            | 0.163                         | 38M0D7D             |

| NR Band          | Band width (MHz) | Modulation |       | Low Freq. (MHz) | Upper Freq. (MHz) | Conducted Average (dB m) | Ant. Gain (dB i) | E.I.R.P. Average (dB m) | E.I.R.P. Average (W) | Emission Designator |
|------------------|------------------|------------|-------|-----------------|-------------------|--------------------------|------------------|-------------------------|----------------------|---------------------|
| n77 Low Band FCC | 20               | DFT-S OFDM | BPSK  | 3 460.02        | 3 540.00          | 25.69                    | 3.24             | 28.93                   | 0.782                | 18M0G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.70                    |                  | 28.94                   | 0.783                | 17M9G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.55                    |                  | 27.79                   | 0.601                | 17M9D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.23                    |                  | 27.47                   | 0.558                | 18M4G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.65                    |                  | 26.89                   | 0.489                | 18M3D7D             |
|                  |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                  | 30               | DFT-S OFDM | BPSK  | 3 465.00        | 3 534.99          | 25.81                    |                  | 29.05                   | 0.804                | 26M9G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.82                    |                  | 29.06                   | 0.805                | 26M9G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.54                    |                  | 27.78                   | 0.600                | 26M9D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.37                    |                  | 27.61                   | 0.577                | 27M9G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.79                    |                  | 27.03                   | 0.505                | 27M7D7D             |
|                  |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                  | 40               | DFT-S OFDM | BPSK  | 3 470.01        | 3 529.98          | 25.75                    |                  | 28.99                   | 0.793                | 35M9G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.77                    |                  | 29.01                   | 0.796                | 35M8G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.51                    |                  | 27.75                   | 0.596                | 35M8D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.20                    |                  | 27.44                   | 0.555                | 38M1G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.62                    |                  | 26.86                   | 0.485                | 38M3D7D             |
|                  |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                  | 50               | DFT-S OFDM | BPSK  | 3 475.02        | 3 525.00          | 25.94                    |                  | 29.18                   | 0.828                | 45M8G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.95                    |                  | 29.19                   | 0.830                | 45M9G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.73                    |                  | 27.97                   | 0.627                | 45M9D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.47                    |                  | 27.71                   | 0.590                | 47M9G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.88                    |                  | 27.12                   | 0.515                | 48M0D7D             |
|                  |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                  | 60               | DFT-S OFDM | BPSK  | 3 480.00        | 3 519.99          | 25.65                    |                  | 28.89                   | 0.774                | 58M0G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.66                    |                  | 28.90                   | 0.776                | 58M1G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.52                    |                  | 27.76                   | 0.597                | 58M1D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.24                    |                  | 27.48                   | 0.560                | 58M6G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.75                    |                  | 26.99                   | 0.500                | 58M6D7D             |
|                  |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                  | 70               | DFT-S OFDM | BPSK  | 3 485.01        | 3 514.98          | 25.74                    |                  | 28.98                   | 0.791                | 64M3G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.76                    |                  | 29.00                   | 0.794                | 64M5G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.36                    |                  | 27.60                   | 0.575                | 64M5D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.24                    |                  | 27.48                   | 0.560                | 68M3G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.62                    |                  | 26.87                   | 0.486                | 68M4D7D             |
|                  |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                  | 80               | DFT-S OFDM | BPSK  | 3 490.02        | 3 510.00          | 25.77                    |                  | 29.01                   | 0.796                | 77M2G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.79                    |                  | 29.03                   | 0.800                | 77M2G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.41                    |                  | 27.65                   | 0.582                | 77M2D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.29                    |                  | 27.53                   | 0.566                | 78M6G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.69                    |                  | 26.93                   | 0.493                | 78M6D7D             |
|                  |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                  | 90               | DFT-S OFDM | BPSK  | 3 495.00        | 3 504.99          | 25.75                    |                  | 28.99                   | 0.793                | 87M0G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.76                    |                  | 29.00                   | 0.794                | 86M9G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.55                    |                  | 27.79                   | 0.601                | 87M0D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.33                    |                  | 27.57                   | 0.571                | 89M2G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.83                    |                  | 27.07                   | 0.509                | 89M0D7D             |
|                  |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                  | 100              | DFT-S OFDM | BPSK  | 3 500.01        | 3 500.01          | 25.72                    |                  | 28.96                   | 0.787                | 96M5G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.73                    |                  | 28.97                   | 0.789                | 96M5G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.43                    |                  | 27.67                   | 0.585                | 96M5D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.30                    |                  | 27.54                   | 0.568                | 97M7G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.69                    |                  | 26.93                   | 0.493                | 97M7D7D             |
|                  |                  |            |       |                 |                   |                          |                  |                         |                      |                     |

| NR Band           | Band width (MHz) | Modulation |       | Low Freq. (MHz) | Upper Freq. (MHz) | Conducted Average (dB m) | Ant. Gain (dB i) | E.I.R.P. Average (dB m) | E.I.R.P. Average (W) | Emission Designator |
|-------------------|------------------|------------|-------|-----------------|-------------------|--------------------------|------------------|-------------------------|----------------------|---------------------|
| n77 High Band FCC | 20               | DFT-S OFDM | BPSK  | 3 710.01        | 3 969.99          | 25.46                    | 3.24             | 28.70                   | 0.741                | 17M9G7D             |
|                   |                  |            | QPSK  |                 |                   | 25.48                    |                  | 28.72                   | 0.745                | 17M9G7D             |
|                   |                  |            | 16QAM |                 |                   | 24.36                    |                  | 27.60                   | 0.575                | 17M9D7D             |
|                   |                  | CP OFDM    | QPSK  |                 |                   | 24.05                    |                  | 27.29                   | 0.536                | 18M4G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.44                    |                  | 26.68                   | 0.466                | 18M4D7D             |
|                   |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                   | 30               | DFT-S OFDM | BPSK  | 3 715.02        | 3 964.98          | 25.61                    |                  | 28.85                   | 0.767                | 26M9G7D             |
|                   |                  |            | QPSK  |                 |                   | 25.62                    |                  | 28.86                   | 0.769                | 26M9G7D             |
|                   |                  |            | 16QAM |                 |                   | 24.46                    |                  | 27.70                   | 0.589                | 26M9D7D             |
|                   |                  | CP OFDM    | QPSK  |                 |                   | 24.20                    |                  | 27.44                   | 0.555                | 27M6G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.62                    |                  | 26.86                   | 0.485                | 27M6D7D             |
|                   |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                   | 40               | DFT-S OFDM | BPSK  | 3 720.00        | 3 960.00          | 25.64                    |                  | 28.88                   | 0.773                | 35M9G7D             |
|                   |                  |            | QPSK  |                 |                   | 25.70                    |                  | 28.94                   | 0.783                | 35M9G7D             |
|                   |                  |            | 16QAM |                 |                   | 24.45                    |                  | 27.69                   | 0.587                | 35M8D7D             |
|                   |                  | CP OFDM    | QPSK  |                 |                   | 24.12                    |                  | 27.36                   | 0.545                | 38M2G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.54                    |                  | 26.78                   | 0.476                | 38M2D7D             |
|                   |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                   | 50               | DFT-S OFDM | BPSK  | 3 725.01        | 3 954.99          | 25.88                    |                  | 29.12                   | 0.817                | 45M8G7D             |
|                   |                  |            | QPSK  |                 |                   | 25.89                    |                  | 29.13                   | 0.818                | 45M9G7D             |
|                   |                  |            | 16QAM |                 |                   | 24.65                    |                  | 27.89                   | 0.615                | 45M9D7D             |
|                   |                  | CP OFDM    | QPSK  |                 |                   | 24.34                    |                  | 27.58                   | 0.573                | 47M9G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.94                    |                  | 27.18                   | 0.522                | 47M9D7D             |
|                   |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                   | 60               | DFT-S OFDM | BPSK  | 3 730.02        | 3 949.98          | 25.29                    |                  | 28.53                   | 0.713                | 57M9G7D             |
|                   |                  |            | QPSK  |                 |                   | 25.30                    |                  | 28.54                   | 0.714                | 58M1G7D             |
|                   |                  |            | 16QAM |                 |                   | 24.03                    |                  | 27.27                   | 0.533                | 58M1D7D             |
|                   |                  | CP OFDM    | QPSK  |                 |                   | 23.92                    |                  | 27.16                   | 0.520                | 58M7G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.49                    |                  | 26.73                   | 0.471                | 58M6D7D             |
|                   |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                   | 70               | DFT-S OFDM | BPSK  | 3 735.00        | 3 945.00          | 25.20                    |                  | 28.44                   | 0.698                | 64M3G7D             |
|                   |                  |            | QPSK  |                 |                   | 25.21                    |                  | 28.45                   | 0.700                | 64M5G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.94                    |                  | 27.18                   | 0.522                | 64M5D7D             |
|                   |                  | CP OFDM    | QPSK  |                 |                   | 23.79                    |                  | 27.03                   | 0.505                | 68M4G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.18                    |                  | 26.42                   | 0.439                | 68M7D7D             |
|                   |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                   | 80               | DFT-S OFDM | BPSK  | 3 740.01        | 3 939.99          | 25.16                    |                  | 28.40                   | 0.692                | 77M2G7D             |
|                   |                  |            | QPSK  |                 |                   | 25.17                    |                  | 28.41                   | 0.693                | 77M2G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.97                    |                  | 27.21                   | 0.526                | 77M2D7D             |
|                   |                  | CP OFDM    | QPSK  |                 |                   | 23.68                    |                  | 26.92                   | 0.492                | 78M8G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.09                    |                  | 26.33                   | 0.430                | 79M0D7D             |
|                   |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                   | 90               | DFT-S OFDM | BPSK  | 3 745.02        | 3 934.98          | 25.44                    |                  | 28.68                   | 0.738                | 86M9G7D             |
|                   |                  |            | QPSK  |                 |                   | 25.48                    |                  | 28.72                   | 0.745                | 86M9G7D             |
|                   |                  |            | 16QAM |                 |                   | 24.21                    |                  | 27.45                   | 0.556                | 87M0D7D             |
|                   |                  | CP OFDM    | QPSK  |                 |                   | 24.09                    |                  | 27.33                   | 0.541                | 89M6G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.60                    |                  | 26.84                   | 0.483                | 89M4D7D             |
|                   |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                   | 100              | DFT-S OFDM | BPSK  | 3 750.00        | 3 930.00          | 25.61                    |                  | 28.85                   | 0.767                | 96M7G7D             |
|                   |                  |            | QPSK  |                 |                   | 25.62                    |                  | 28.86                   | 0.769                | 96M5G7D             |
|                   |                  |            | 16QAM |                 |                   | 24.45                    |                  | 27.69                   | 0.587                | 96M5D7D             |
|                   |                  | CP OFDM    | QPSK  |                 |                   | 24.25                    |                  | 27.49                   | 0.561                | 97M7G7D             |
|                   |                  |            | 16QAM |                 |                   | 23.67                    |                  | 26.91                   | 0.491                | 97M7D7D             |
|                   |                  |            |       |                 |                   |                          |                  |                         |                      |                     |

| NR Band         | Band width (MHz) | Modulation |       | Low Freq. (MHz) | Upper Freq. (MHz) | Conducted Average (dB m) | Ant. Gain (dB i) | E.I.R.P. Average (dB m) | E.I.R.P. Average (W) | Emission Designator |
|-----------------|------------------|------------|-------|-----------------|-------------------|--------------------------|------------------|-------------------------|----------------------|---------------------|
| n77 Low Band IC | 20               | DFT-S OFDM | BPSK  | 3 460.02        | 3 889.98          | 25.62                    | 3.24             | 28.86                   | 0.769                | 17M9G7D             |
|                 |                  |            | QPSK  |                 |                   | 25.63                    |                  | 28.87                   | 0.771                | 18M0G7D             |
|                 |                  |            | 16QAM |                 |                   | 24.51                    |                  | 27.75                   | 0.596                | 17M9D7D             |
|                 |                  | CP OFDM    | QPSK  |                 |                   | 24.13                    |                  | 27.37                   | 0.546                | 18M4G7D             |
|                 |                  |            | 16QAM |                 |                   | 23.59                    |                  | 26.83                   | 0.482                | 18M4D7D             |
|                 |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                 | 30               | DFT-S OFDM | BPSK  | 3 465.00        | 3 885.00          | 25.66                    |                  | 28.90                   | 0.776                | 26M9G7D             |
|                 |                  |            | QPSK  |                 |                   | 25.67                    |                  | 28.91                   | 0.778                | 26M9G7D             |
|                 |                  |            | 16QAM |                 |                   | 24.48                    |                  | 27.72                   | 0.592                | 26M9D7D             |
|                 |                  | CP OFDM    | QPSK  |                 |                   | 24.16                    |                  | 27.40                   | 0.550                | 28M0G7D             |
|                 |                  |            | 16QAM |                 |                   | 23.63                    |                  | 26.87                   | 0.486                | 28M1D7D             |
|                 |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                 | 40               | DFT-S OFDM | BPSK  | 3 470.01        | 3 879.99          | 25.81                    |                  | 29.05                   | 0.804                | 35M9G7D             |
|                 |                  |            | QPSK  |                 |                   | 25.83                    |                  | 29.07                   | 0.807                | 35M8G7D             |
|                 |                  |            | 16QAM |                 |                   | 24.51                    |                  | 27.75                   | 0.596                | 35M8D7D             |
|                 |                  | CP OFDM    | QPSK  |                 |                   | 24.30                    |                  | 27.54                   | 0.568                | 38M1G7D             |
|                 |                  |            | 16QAM |                 |                   | 23.73                    |                  | 26.97                   | 0.498                | 38M3D7D             |
|                 |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                 | 50               | DFT-S OFDM | BPSK  | 3 475.02        | 3 874.98          | 25.97                    |                  | 29.21                   | 0.834                | 45M8G7D             |
|                 |                  |            | QPSK  |                 |                   | 25.98                    |                  | 29.22                   | 0.836                | 45M9G7D             |
|                 |                  |            | 16QAM |                 |                   | 24.78                    |                  | 28.02                   | 0.634                | 45M8D7D             |
|                 |                  | CP OFDM    | QPSK  |                 |                   | 24.49                    |                  | 27.73                   | 0.593                | 47M9G7D             |
|                 |                  |            | 16QAM |                 |                   | 23.87                    |                  | 27.11                   | 0.514                | 48M0D7D             |
|                 |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                 | 60               | DFT-S OFDM | BPSK  | 3 480.00        | 3 870.00          | 25.61                    |                  | 28.85                   | 0.767                | 57M9G7D             |
|                 |                  |            | QPSK  |                 |                   | 25.62                    |                  | 28.86                   | 0.769                | 58M1G7D             |
|                 |                  |            | 16QAM |                 |                   | 24.51                    |                  | 27.75                   | 0.596                | 58M1D7D             |
|                 |                  | CP OFDM    | QPSK  |                 |                   | 24.20                    |                  | 27.44                   | 0.555                | 58M7G7D             |
|                 |                  |            | 16QAM |                 |                   | 23.73                    |                  | 26.97                   | 0.498                | 58M6D7D             |
|                 |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                 | 70               | DFT-S OFDM | BPSK  | 3 485.01        | 3 864.99          | 25.64                    |                  | 28.88                   | 0.773                | 64M3G7D             |
|                 |                  |            | QPSK  |                 |                   | 25.65                    |                  | 28.89                   | 0.774                | 64M5G7D             |
|                 |                  |            | 16QAM |                 |                   | 24.45                    |                  | 27.69                   | 0.587                | 64M5D7D             |
|                 |                  | CP OFDM    | QPSK  |                 |                   | 24.22                    |                  | 27.46                   | 0.557                | 68M4G7D             |
|                 |                  |            | 16QAM |                 |                   | 23.62                    |                  | 26.86                   | 0.485                | 68M5D7D             |
|                 |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                 | 80               | DFT-S OFDM | BPSK  | 3 490.02        | 3 859.98          | 25.76                    |                  | 29.00                   | 0.794                | 77M2G7D             |
|                 |                  |            | QPSK  |                 |                   | 25.78                    |                  | 29.02                   | 0.798                | 77M4G7D             |
|                 |                  |            | 16QAM |                 |                   | 24.35                    |                  | 27.59                   | 0.574                | 77M2D7D             |
|                 |                  | CP OFDM    | QPSK  |                 |                   | 24.23                    |                  | 27.47                   | 0.558                | 78M8G7D             |
|                 |                  |            | 16QAM |                 |                   | 23.65                    |                  | 26.89                   | 0.489                | 79M0D7D             |
|                 |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                 | 90               | DFT-S OFDM | BPSK  | 3 495.00        | 3 855.00          | 25.67                    |                  | 28.91                   | 0.778                | 86M9G7D             |
|                 |                  |            | QPSK  |                 |                   | 25.68                    |                  | 28.92                   | 0.780                | 86M9G7D             |
|                 |                  |            | 16QAM |                 |                   | 24.64                    |                  | 27.88                   | 0.614                | 87M0D7D             |
|                 |                  | CP OFDM    | QPSK  |                 |                   | 24.31                    |                  | 27.55                   | 0.569                | 89M9G7D             |
|                 |                  |            | 16QAM |                 |                   | 23.82                    |                  | 27.06                   | 0.508                | 89M6D7D             |
|                 |                  |            |       |                 |                   |                          |                  |                         |                      |                     |
|                 | 100              | DFT-S OFDM | BPSK  | 3 500.01        | 3 849.99          | 25.70                    |                  | 28.94                   | 0.783                | 96M7G7D             |
|                 |                  |            | QPSK  |                 |                   | 25.72                    |                  | 28.96                   | 0.787                | 96M3G7D             |
|                 |                  |            | 16QAM |                 |                   | 24.69                    |                  | 27.93                   | 0.621                | 96M5D7D             |
|                 |                  | CP OFDM    | QPSK  |                 |                   | 24.32                    |                  | 27.56                   | 0.570                | 97M7G7D             |
|                 |                  |            | 16QAM |                 |                   | 23.78                    |                  | 27.02                   | 0.504                | 97M9D7D             |
|                 |                  |            |       |                 |                   |                          |                  |                         |                      |                     |

| NR Band          | Band width (MHz) | Modulation |       | Low Freq. (MHz) | Upper Freq. (MHz) | Conducted Average (dB m) | Ant. Gain (dB i) | E.I.R.P. Average (dB m) | E.I.R.P. Average (W) | Emission Designator |
|------------------|------------------|------------|-------|-----------------|-------------------|--------------------------|------------------|-------------------------|----------------------|---------------------|
| n77 High Band IC | 20               | DFT-S OFDM | BPSK  | 3 910.02        | 3 969.99          | 25.62                    | 3.24             | 28.86                   | 0.769                | 17M9G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.63                    |                  | 28.87                   | 0.771                | 17M9G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.50                    |                  | 27.74                   | 0.594                | 17M9D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.15                    |                  | 27.39                   | 0.548                | 18M4G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.57                    |                  | 26.81                   | 0.480                | 18M3D7D             |
|                  |                  |            | 16QAM |                 |                   | 25.64                    |                  | 28.88                   | 0.773                | 26M9G7D             |
|                  | 30               | DFT-S OFDM | BPSK  | 3 915.00        | 3 964.98          | 25.65                    |                  | 28.89                   | 0.774                | 26M9G7D             |
|                  |                  |            | QPSK  |                 |                   | 24.47                    |                  | 27.71                   | 0.590                | 26M9D7D             |
|                  |                  |            | 16QAM |                 |                   | 24.15                    |                  | 27.39                   | 0.548                | 28M0G7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 23.60                    |                  | 26.84                   | 0.483                | 28M1D7D             |
|                  |                  |            | 16QAM |                 |                   | 25.65                    |                  | 28.89                   | 0.774                | 35M9G7D             |
|                  |                  |            | 16QAM |                 |                   | 25.70                    |                  | 28.94                   | 0.783                | 35M8G7D             |
|                  | 40               | DFT-S OFDM | BPSK  | 3 920.01        | 3 960.00          | 24.40                    |                  | 27.64                   | 0.581                | 35M8D7D             |
|                  |                  |            | QPSK  |                 |                   | 24.12                    |                  | 27.36                   | 0.545                | 38M1G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.56                    |                  | 26.80                   | 0.479                | 38M2D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 25.97                    |                  | 29.21                   | 0.834                | 45M8G7D             |
|                  |                  |            | 16QAM |                 |                   | 25.98                    |                  | 29.22                   | 0.836                | 45M9G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.81                    |                  | 28.05                   | 0.638                | 45M8D7D             |
|                  | 50               | DFT-S OFDM | BPSK  | 3 925.02        | 3 954.99          | 24.55                    |                  | 27.79                   | 0.601                | 47M9G7D             |
|                  |                  |            | QPSK  |                 |                   | 23.89                    |                  | 27.13                   | 0.516                | 47M9D7D             |
|                  |                  |            | 16QAM |                 |                   | 25.55                    |                  | 28.79                   | 0.757                | 57M9G7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 25.56                    |                  | 28.80                   | 0.759                | 58M1G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.45                    |                  | 27.69                   | 0.587                | 58M1D7D             |
|                  |                  |            | 16QAM |                 |                   | 24.14                    |                  | 27.38                   | 0.547                | 58M9G7D             |
|                  | 60               | DFT-S OFDM | BPSK  | 3 930.00        | 3 949.98          | 23.67                    |                  | 26.91                   | 0.491                | 58M7D7D             |
|                  |                  |            | QPSK  |                 |                   | 25.84                    |                  | 29.08                   | 0.809                | 64M3G7D             |
|                  |                  |            | 16QAM |                 |                   | 25.85                    |                  | 29.09                   | 0.811                | 64M5G7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.60                    |                  | 27.84                   | 0.608                | 64M5D7D             |
|                  |                  |            | 16QAM |                 |                   | 24.32                    |                  | 27.56                   | 0.570                | 68M4G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.74                    |                  | 26.98                   | 0.499                | 68M7D7D             |
|                  | 70               | DFT-S OFDM | BPSK  | 3 935.01        | 3 945.00          | 25.73                    |                  | 28.97                   | 0.789                | 77M0G7D             |
|                  |                  |            | QPSK  |                 |                   | 25.74                    |                  | 28.98                   | 0.791                | 77M2G7D             |
|                  |                  |            | 16QAM |                 |                   | 24.38                    |                  | 27.62                   | 0.578                | 77M0D7D             |
|                  |                  | CP OFDM    | QPSK  |                 |                   | 24.28                    |                  | 27.52                   | 0.565                | 79M0G7D             |
|                  |                  |            | 16QAM |                 |                   | 23.66                    |                  | 26.90                   | 0.490                | 79M0D7D             |
|                  |                  |            | 16QAM |                 |                   |                          |                  |                         |                      |                     |

| Band                   | Band width (MHz) | Modulation |       | Low Freq. (MHz) | Upper Freq. (MHz) | Conducted Average (dB m) | Ant. Gain (dB i) | E.R.P. / E.I.R.P. Average (dB m) | E.R.P. / E.I.R.P. Average (W) | Emission Designator |
|------------------------|------------------|------------|-------|-----------------|-------------------|--------------------------|------------------|----------------------------------|-------------------------------|---------------------|
| n78<br>Low Band<br>FCC | 20               | CP OFDM    | QPSK  | 3 460.02        | 3 540.00          | 22.34                    | 3.24             | 25.58                            | 0.361                         | 18M3G7D             |
|                        |                  |            | 16QAM |                 |                   | 22.03                    |                  | 25.27                            | 0.337                         | 18M3D7D             |
|                        | 30               | CP OFDM    | QPSK  | 3 465.00        | 3 534.99          | 22.50                    |                  | 25.74                            | 0.375                         | 27M6G7D             |
|                        |                  |            | 16QAM |                 |                   | 22.11                    |                  | 25.35                            | 0.343                         | 27M6D7D             |
|                        | 40               | CP OFDM    | QPSK  | 3 470.01        | 3 529.98          | 22.36                    |                  | 25.60                            | 0.363                         | 38M0G7D             |
|                        |                  |            | 16QAM |                 |                   | 22.05                    |                  | 25.29                            | 0.338                         | 38M0D7D             |
|                        | 50               | CP OFDM    | QPSK  | 3 475.02        | 3 525.00          | 22.58                    |                  | 25.82                            | 0.382                         | 47M5G7D             |
|                        |                  |            | 16QAM |                 |                   | 22.20                    |                  | 25.44                            | 0.350                         | 47M6D7D             |
|                        | 60               | CP OFDM    | QPSK  | 3 480.00        | 3 519.99          | 22.31                    |                  | 25.55                            | 0.359                         | 58M1G7D             |
|                        |                  |            | 16QAM |                 |                   | 22.09                    |                  | 25.33                            | 0.341                         | 58M0D7D             |
|                        | 70               | CP OFDM    | QPSK  | 3 485.01        | 3 514.98          | 22.37                    |                  | 25.61                            | 0.364                         | 67M6G7D             |
|                        |                  |            | 16QAM |                 |                   | 22.14                    |                  | 25.38                            | 0.345                         | 67M7D7D             |
|                        | 80               | CP OFDM    | QPSK  | 3 490.02        | 3 510.00          | 22.25                    |                  | 25.49                            | 0.354                         | 77M7G7D             |
|                        |                  |            | 16QAM |                 |                   | 21.98                    |                  | 25.22                            | 0.333                         | 77M7D7D             |
|                        | 90               | CP OFDM    | QPSK  | 3 495.00        | 3 504.99          | 22.35                    |                  | 25.59                            | 0.362                         | 87M6G7D             |
|                        |                  |            | 16QAM |                 |                   | 22.22                    |                  | 25.46                            | 0.352                         | 87M6D7D             |
|                        | 100              | CP OFDM    | QPSK  | 3 500.01        | 3 500.01          | 22.31                    |                  | 25.55                            | 0.359                         | 97M5G7D             |
|                        |                  |            | 16QAM |                 |                   | 22.19                    |                  | 25.43                            | 0.349                         | 97M5D7D             |

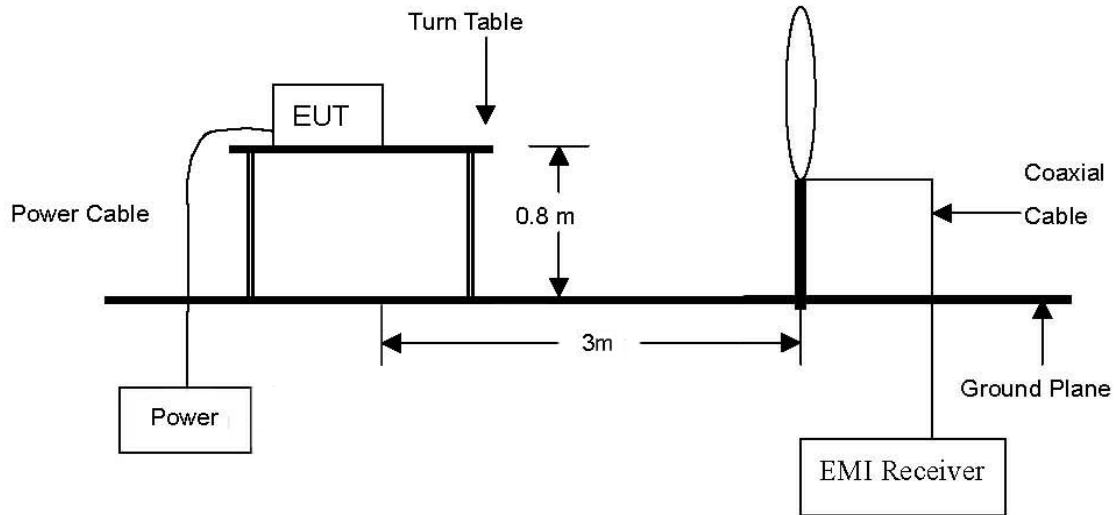
| Band              | Band width (MHz) | Modulation |       | Low Freq. (MHz) | Upper Freq. (MHz) | Conducted Average (dB m) | Ant. Gain (dB i) | E.R.P. / E.I.R.P. Average (dB m) | E.R.P. / E.I.R.P. Average (W) | Emission Designator |
|-------------------|------------------|------------|-------|-----------------|-------------------|--------------------------|------------------|----------------------------------|-------------------------------|---------------------|
| n78 High Band FCC | 20               | CP OFDM    | QPSK  | 3 710.01        | 3 789.99          | 22.09                    | 3.24             | 25.33                            | 0.341                         | 18M3G7D             |
|                   |                  |            | 16QAM |                 |                   | 21.76                    |                  | 25.00                            | 0.316                         | 18M3D7D             |
|                   | 30               | CP OFDM    | QPSK  | 3 715.02        | 3 784.98          | 22.22                    |                  | 25.46                            | 0.352                         | 27M5G7D             |
|                   |                  |            | 16QAM |                 |                   | 21.91                    |                  | 25.15                            | 0.327                         | 27M5D7D             |
|                   | 40               | CP OFDM    | QPSK  | 3 720.00        | 3 780.00          | 22.16                    |                  | 25.40                            | 0.347                         | 38M0G7D             |
|                   |                  |            | 16QAM |                 |                   | 21.93                    |                  | 25.17                            | 0.329                         | 38M0D7D             |
|                   | 50               | CP OFDM    | QPSK  | 3 725.01        | 3 774.99          | 22.43                    |                  | 25.67                            | 0.369                         | 47M6G7D             |
|                   |                  |            | 16QAM |                 |                   | 22.14                    |                  | 25.38                            | 0.345                         | 47M7D7D             |
|                   | 60               | CP OFDM    | QPSK  | 3 730.02        | 3 769.98          | 22.22                    |                  | 25.46                            | 0.352                         | 58M1G7D             |
|                   |                  |            | 16QAM |                 |                   | 22.01                    |                  | 25.25                            | 0.335                         | 58M0D7D             |
|                   | 70               | CP OFDM    | QPSK  | 3 735.00        | 3 765.00          | 22.26                    |                  | 25.50                            | 0.355                         | 67M6G7D             |
|                   |                  |            | 16QAM |                 |                   | 22.00                    |                  | 25.24                            | 0.334                         | 67M7D7D             |
|                   | 80               | CP OFDM    | QPSK  | 3 740.01        | 3 759.99          | 22.28                    |                  | 25.52                            | 0.356                         | 77M5G7D             |
|                   |                  |            | 16QAM |                 |                   | 22.05                    |                  | 25.29                            | 0.338                         | 77M7D7D             |
|                   | 90               | CP OFDM    | QPSK  | 3 745.02        | 3 754.98          | 22.37                    |                  | 25.61                            | 0.364                         | 87M8G7D             |
|                   |                  |            | 16QAM |                 |                   | 22.25                    |                  | 25.49                            | 0.354                         | 87M6D7D             |
|                   | 100              | CP OFDM    | QPSK  | 3 750.00        | 3 750.00          | 22.26                    |                  | 25.50                            | 0.355                         | 97M7G7D             |
|                   |                  |            | 16QAM |                 |                   | 22.07                    |                  | 25.31                            | 0.340                         | 97M7D7D             |

| Band   | Band width (MHz) | Modulation |       | Low Freq. (MHz) | Upper Freq. (MHz) | Conducted Average (dB m) | Ant. Gain (dB i) | E.R.P. / E.I.R.P. Average (dB m) | E.R.P. / E.I.R.P. Average (W) | Emission Designator |
|--------|------------------|------------|-------|-----------------|-------------------|--------------------------|------------------|----------------------------------|-------------------------------|---------------------|
| n78 IC | 20               | CP OFDM    | QPSK  | 3 460.02        | 3 789.99          | 22.35                    | 3.24             | 25.59                            | 0.362                         | 18M3G7D             |
|        |                  |            | 16QAM |                 |                   | 22.06                    |                  | 25.30                            | 0.339                         | 18M3D7D             |
|        | 30               | CP OFDM    | QPSK  | 3 465.00        | 3 784.98          | 22.58                    |                  | 25.82                            | 0.382                         | 27M9G7D             |
|        |                  |            | 16QAM |                 |                   | 22.13                    |                  | 25.37                            | 0.344                         | 27M8D7D             |
|        | 40               | CP OFDM    | QPSK  | 3 470.01        | 3 780.00          | 22.53                    |                  | 25.77                            | 0.378                         | 38M0G7D             |
|        |                  |            | 16QAM |                 |                   | 22.08                    |                  | 25.32                            | 0.340                         | 38M0D7D             |
|        | 50               | CP OFDM    | QPSK  | 3 475.02        | 3 774.99          | 22.72                    |                  | 25.96                            | 0.394                         | 47M5G7D             |
|        |                  |            | 16QAM |                 |                   | 22.24                    |                  | 25.48                            | 0.353                         | 47M6D7D             |
|        | 60               | CP OFDM    | QPSK  | 3 480.00        | 3 769.98          | 22.37                    |                  | 25.61                            | 0.364                         | 58M3G7D             |
|        |                  |            | 16QAM |                 |                   | 22.21                    |                  | 25.45                            | 0.351                         | 58M3D7D             |
|        | 70               | CP OFDM    | QPSK  | 3 485.01        | 3 765.00          | 22.49                    |                  | 25.73                            | 0.374                         | 67M8G7D             |
|        |                  |            | 16QAM |                 |                   | 22.32                    |                  | 25.56                            | 0.360                         | 67M7D7D             |
|        | 80               | CP OFDM    | QPSK  | 3 490.02        | 3 759.99          | 22.54                    |                  | 25.78                            | 0.378                         | 77M8G7D             |
|        |                  |            | 16QAM |                 |                   | 22.25                    |                  | 25.49                            | 0.354                         | 77M8D7D             |
|        | 90               | CP OFDM    | QPSK  | 3 495.00        | 3 754.98          | 22.47                    |                  | 25.71                            | 0.372                         | 87M8G7D             |
|        |                  |            | 16QAM |                 |                   | 22.24                    |                  | 25.48                            | 0.353                         | 87M8D7D             |
|        | 100              | CP OFDM    | QPSK  | 3 500.01        | 3 750.00          | 22.47                    |                  | 25.71                            | 0.372                         | 97M7G7D             |
|        |                  |            | 16QAM |                 |                   | 22.30                    |                  | 25.54                            | 0.358                         | 97M7D7D             |

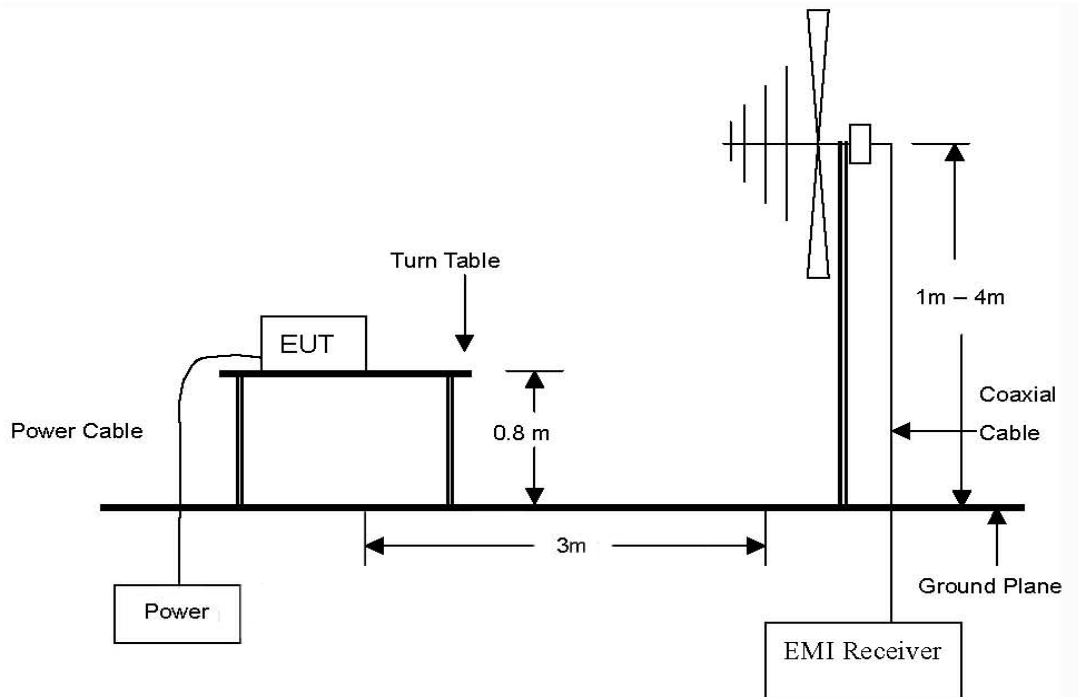
## 2. E.R.P. / E.I.R.P. & Radiated Spurious Emissions

### 2.1. Test setup

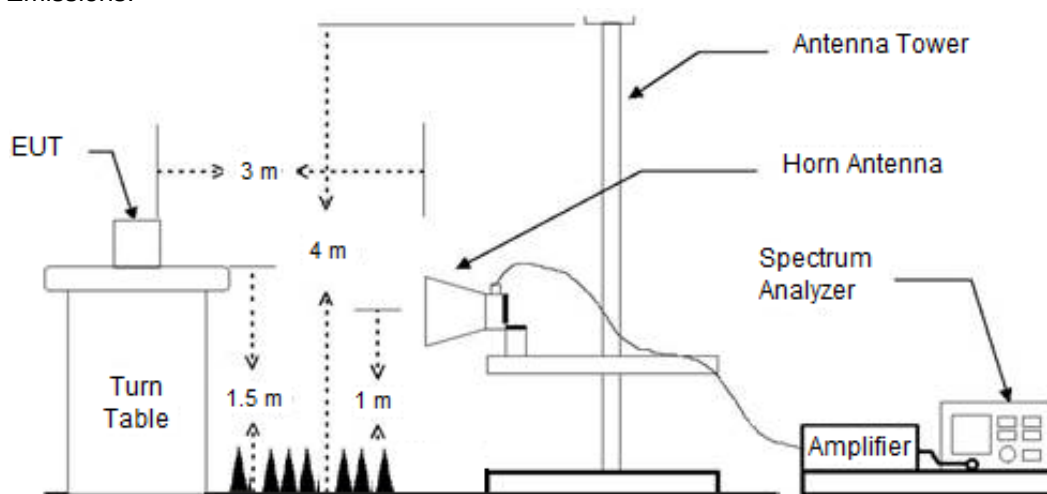
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to 40 GHz Emissions.



## 2.2. Limit

### 2.2.1. Limit of E.R.P. / E.I.R.P.

- §27.50(j)(3), Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

- §27.50(k)(3), Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

- §96.41(b), unless otherwise specified in this section, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph (b):

| Device                       | Maximum EIRP<br>(dBm/10megahertz) | Maximum PSD<br>(dBm/MHz) |
|------------------------------|-----------------------------------|--------------------------|
| End User Device              | 23                                | n/a                      |
| Category A CBSD              | 30                                | 20                       |
| Category B CBSD <sup>1</sup> | 47                                | 37                       |

<sup>1</sup>Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§ 96.15 and 96.67.

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5.5, the maximum output power of the equipment measured in terms of average values shall comply with the limits specified in table 1.

Table 1 : Maximum power of equipment

| Equipment type                                                       | Maximum Power                     |
|----------------------------------------------------------------------|-----------------------------------|
| Non-AAS: base station (outdoor), fixed P-P station, P-MP hub station | 68 dBm e.i.r.p./5 MHz             |
| AAS: base station (outdoor), P-MP hub station                        | 47 dBm TRP/5 MHz                  |
| Indoor base station                                                  | 39 dBm TRP/channel bandwidth      |
| Fixed subscriber equipment                                           | 39 dBm e.i.r.p./channel bandwidth |
| Subscriber equipment other than fixed subscriber equipment           | 30 dBm e.i.r.p./channel bandwidth |

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5.5, the maximum power spectral density per antenna (considering all radiation patterns) of the equipment, measured in terms of average values, shall comply with the limits specified in table 1.

Table 1 : Maximum power spectral density of equipment

| Equipment type                                             | Maximum power spectral density (per antenna) |
|------------------------------------------------------------|----------------------------------------------|
| Outdoor base station, fixed service equipment              | 37 dBm/MHz e.i.r.p.                          |
| Indoor base station                                        | 20 dBm/MHz e.i.r.p.                          |
| Fixed subscriber equipment                                 | 20 dBm/MHz e.i.r.p.                          |
| Subscriber equipment other than fixed subscriber equipment | 30 dBm /channel bandwidth e.i.r.p.           |

### 2.2.2. Limit of Radiated Spurious Emissions

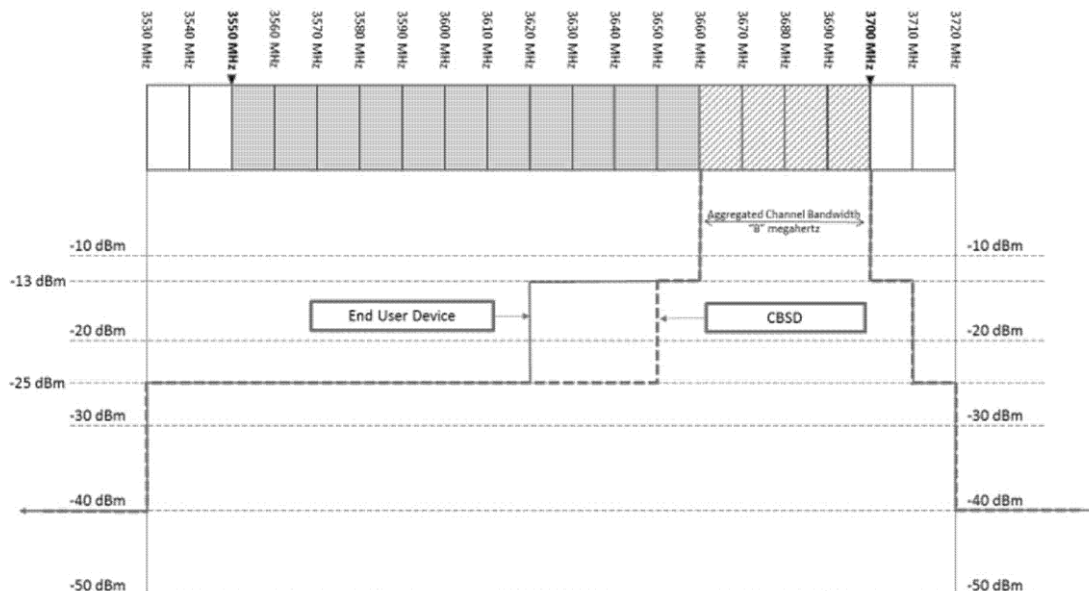
- §27.53(l)(2), for mobile operations in the 3 700-3 980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm /MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 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. 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 emissions are attenuated at least 26 dB below the transmitter power.

- §27.53(n)(2), for mobile operations in the 3 450-3 550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm /MHz. Compliance with this paragraph (n)(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, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 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. 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 emissions are attenuated at least 26 dB below the transmitter power.

- §96.41(e), 3.5GHz Emissions and Interference Limits

(1) General protection levels.

Figure 1 to paragraph (e) – Protection levels



(i) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dB m/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel

edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dB m/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

(ii) Except as otherwise specified in paragraph (e)(2) of this section, 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 dB m/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 dB m/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

(2) **Additional protection levels.** Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3 540 MHz or above 3 710 MHz shall not exceed -25 dB m/MHz, and the conducted power of emissions below 3 530 MHz or above 3 720 MHz shall not exceed -40 dB m/MHz.

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5.6, unwanted emissions shall be measured in terms of average values when the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

If the transmitter is designed for multi-carrier operation, the tests shall be carried out using both the maximum and minimum number of carriers intended for the equipment.

5.6.3, subscriber equipment shall have the TRP or conducted power (per antenna), where applicable, of unwanted emission not exceeding the following:

a. the limits in table 6

b. a limit of -30 dBm/MHz in the frequency range greater than (B+5) MHz from the edge of the frequency band

Table 6: Unwanted emission limits for subscriber equipment

| Frequency block group (B)         | Offset frequency from the edge of the frequency block group (MHz) |             |             |             |
|-----------------------------------|-------------------------------------------------------------------|-------------|-------------|-------------|
|                                   | 0-1                                                               | 1-5         | 5-B         | >B          |
| 10 MHz, 20 MHz, 30 MHz and 40 MHz | -13 dBm/1% of B                                                   | -10 dBm/MHz | -13 dBm/MHz | -25 dBm/MHz |
| > 40 MHz                          | -13 dBm/400 kHz                                                   | -10 dBm/MHz | -13 dBm/MHz | -25 dBm/MHz |

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5.6, unwanted emissions shall be measured in term of average value when the transmitter is operating at the manufacturer's rated power and modulated as specified in RSS-Gen.

Equipment shall meet the unwanted emission limits, specified below, outside each frequency block group. For each channel bandwidth supported by the equipment under test, the unwanted emissions shall be measured and reported for two channel frequencies: one located as close as possible to the low end and one located as close as possible to the high end of the equipment's operating frequency range.

5.6.1, the unwanted emission outside the frequency block group shall not exceed the TRP or total conducted power (sum of conducted power across all antenna connectors) limits as specified in table 2.

Table 2: Unwanted emission limits for all equipment

| Offset frequency from the edge of the frequency block group (MHz) | Unwanted emission limits for all equipment |
|-------------------------------------------------------------------|--------------------------------------------|
| ≤1                                                                | -13 dBm/1% OB*                             |
| >1                                                                | -13 dBm/MHz                                |

\*OB is the occupied bandwidth

5.6.2, for frequencies between 4 200 MHz and 4 400 MHz, the unwanted emission of outdoor base station, indoor base station and fixed service equipment shall not exceed a TRP or total conducted power (sum of conducted power across all antenna connectors) limit of -30 dBm/MHz.

## 2.3. Test Procedure

### 2.3.1. E.R.P. or E.I.R.P. from conducted RF output power

According to subclause 5.2.5.5 of ANSI C63.26-2015 E.R.P. and E.I.R.P. are defined as the product of the power supplied to the antenna and its gain.

The relevant equation for determining the E.R.P. or E.I.R.P. from the conducted RF output power measured using the guidance provided above is:

$$\text{E.R.P. or E.I.R.P.} = P_{\text{Meas}} + G_T$$

where:

E.R.P. or E.I.R.P. = effective radiated power or equivalent isotropically radiated power, respectively  
(expressed in the same units as  $P_{\text{Meas}}$ , typically dBW or dBm);

$P_{\text{Meas}}$  = measured transmitter output power or PSD, in dBm or dBW;

$G_T$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

### 2.3.2. Radiated Spurious Emissions

The test based on ANSI/TIA 603E: 2016 and ANSI C63.26-2015 and KDB 971168 D01 Power Meas License Digital Systems v03r01.

1. On a test site, the EUT shall be placed at 0.8 m or 1.5 m height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. Radiated spurious emissions measurement method was set as follows:  
RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz, VBW  $\geq 3 \times$  RBW,  
Detector = RMS, trace mode = max hold, per the guidelines of KDB 971168 D01 Power Meas License Digital Systems v03r01.
5. The transmitter shall be switched on, the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.
7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
11. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
12. The measurement shall be repeated with the test antenna orientated for horizontal polarization.

## 2.4. Test Results

Ambient temperature : (23 ± 1) °C  
Relative humidity : 47 % R.H.

### 2.4.1. E.R.P. / E.I.R.P.

#### FCC

| Band          | Frequency (MHz) | Maximum Conducted Power (dB m) | Maximum Conducted Power (W) | Antenna Gain (dB i) | Maximum E.I.R.P. (dB m) | Maximum E.I.R.P. (W) | Maximum E.R.P. (dB m) | Maximum E.R.P. (W) | Limit        |
|---------------|-----------------|--------------------------------|-----------------------------|---------------------|-------------------------|----------------------|-----------------------|--------------------|--------------|
| n77 Low band  | 3 450 ~ 3 550   | 25.95                          | 0.394                       | 3.24                | 29.19                   | 0.830                |                       |                    | 1 W E.I.R.P. |
| n77 High band | 3 700 ~ 3 980   | 25.89                          | 0.388                       | 3.24                | 29.13                   | 0.818                |                       |                    | 1 W E.I.R.P. |
| n78 Low band  | 3 450 ~ 3 550   | 22.58                          | 0.181                       | 3.24                | 25.82                   | 0.382                |                       |                    | 1 W E.I.R.P. |
| n78 High band | 3 700 ~ 3 800   | 22.43                          | 0.175                       | 3.24                | 25.67                   | 0.369                |                       |                    | 1 W E.I.R.P. |

#### IC

| Band          | Frequency (MHz) | Maximum Conducted Power (dB m) | Maximum Conducted Power (W) | Antenna Gain (dB i) | Maximum E.I.R.P. (dB m) | Maximum E.I.R.P. (W) | Maximum E.R.P. (dB m) | Maximum E.R.P. (W) | Limit                              |
|---------------|-----------------|--------------------------------|-----------------------------|---------------------|-------------------------|----------------------|-----------------------|--------------------|------------------------------------|
| n77 Low band  | 3 450 ~ 3 900   | 25.98                          | 0.396                       | 3.24                | 29.22                   | 0.836                |                       |                    | 30 dB m e.i.r.p./channel bandwidth |
| n77 High band | 3 900 ~ 3 980   | 25.98                          | 0.396                       | 3.24                | 29.22                   | 0.836                |                       |                    | 30 dB m e.i.r.p./channel bandwidth |
| n78           | 3 450 ~ 3 800   | 22.72                          | 0.187                       | 3.24                | 25.96                   | 0.394                |                       |                    | 30 dB m e.i.r.p./channel bandwidth |
| n48           | 3 650 ~ 3 700   | 20.90                          | 0.123                       | 2.00                | 22.90                   | 0.195                |                       |                    | 30 dB m e.i.r.p./channel bandwidth |

#### Remark;

1. E.I.R.P. (dB m) = Maximum Conducted Power (dB m) + Antenna Gain (dB i)
2. E.R.P. (dB m) = E.I.R.P. (dB m) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.

| Band    | Band width | Frequency (MHz) | Modulation |       | Conducted Power (dB m/10 MHz) | Antenna Gain (dB i) | Maximum E.I.R.P. (dB m/10 MHz) | Limit            |
|---------|------------|-----------------|------------|-------|-------------------------------|---------------------|--------------------------------|------------------|
|         |            |                 |            |       | Port. 1 + Port. 2             |                     | Port. 1 + Port. 2              |                  |
| n48 FCC | 20         | 3 560.01        | CP-OFDM    | QPSK  | 18.74                         | 2.00                | 20.74                          | 23 (dB m/10 MHz) |
|         |            |                 |            | 16QAM | 18.25                         |                     | 20.25                          |                  |
|         |            | 3 624.99        | CP-OFDM    | QPSK  | 18.38                         |                     | 20.38                          |                  |
|         |            |                 |            | 16QAM | 18.10                         |                     | 20.10                          |                  |
|         |            | 3 690.00        | CP-OFDM    | QPSK  | 18.48                         |                     | 20.48                          |                  |
|         |            |                 |            | 16QAM | 17.85                         |                     | 19.85                          |                  |
|         | 30         | 3 565.02        | CP-OFDM    | QPSK  | 19.27                         |                     | 21.27                          |                  |
|         |            |                 |            | 16QAM | 18.77                         |                     | 20.77                          |                  |
|         |            | 3 624.99        | CP-OFDM    | QPSK  | 19.11                         |                     | 21.11                          |                  |
|         |            |                 |            | 16QAM | 18.37                         |                     | 20.37                          |                  |
|         |            | 3 684.99        | CP-OFDM    | QPSK  | 18.73                         |                     | 20.73                          |                  |
|         |            |                 |            | 16QAM | 18.13                         |                     | 20.13                          |                  |
|         | 40         | 3 570.00        | CP-OFDM    | QPSK  | 19.24                         |                     | 21.24                          |                  |
|         |            |                 |            | 16QAM | 18.59                         |                     | 20.59                          |                  |
|         |            | 3 624.99        | CP-OFDM    | QPSK  | 18.81                         |                     | 20.81                          |                  |
|         |            |                 |            | 16QAM | 18.37                         |                     | 20.37                          |                  |
|         |            | 3 679.98        | CP-OFDM    | QPSK  | 18.76                         |                     | 20.76                          |                  |
|         |            |                 |            | 16QAM | 18.23                         |                     | 20.23                          |                  |

**Remark;**

1. E.I.R.P. (dB m/10 MHz) = Maximum Conducted Power (dB m/10 MHz) + Antenna Gain (dB i)

## 2.4.2. Radiated Spurious Emissions

### NR Band 48 Low Band (40 MHz – CP-OFDM-QPSK) FCC MIMO

| Frequency (MHz)               | Measured Level (dBμV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | E (dBμV/m) | CF (dB) | E.I.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|-------------------------------|-----------------------|-----------|-----------|-------------|------------|---------|-----------------|--------------|-------------|
| Low Channel (3 570.00 MHz)    |                       |           |           |             |            |         |                 |              |             |
| 7 160.60                      | 34.13                 | H         | 35.82     | -29.15      | 40.80      | -95.26  | -54.46          | -43.01       | 11.45       |
| 7 144.44                      | 34.06                 | V         | 35.79     | -29.15      | 40.70      | -95.26  | -54.56          | -43.01       | 11.55       |
| Above 7 200.00                | Not detected          | –         | –         | –           | –          | –       | –               | –            | –           |
| Middle Channel (3 624.99 MHz) |                       |           |           |             |            |         |                 |              |             |
| 7 230.72                      | 33.46                 | H         | 35.96     | -29.15      | 40.27      | -95.26  | -54.99          | -43.01       | 11.98       |
| 7 261.12                      | 33.71                 | V         | 36.02     | -29.01      | 40.72      | -95.26  | -54.54          | -43.01       | 11.53       |
| Above 7 300.00                | Not detected          | –         | –         | –           | –          | –       | –               | –            | –           |
| High Channel (3 679.98 MHz)   |                       |           |           |             |            |         |                 |              |             |
| 7 348.46                      | 33.49                 | H         | 36.20     | -29.06      | 40.63      | -95.26  | -54.63          | -43.01       | 11.62       |
| 7 381.26                      | 34.61                 | V         | 36.26     | -29.04      | 41.83      | -95.26  | -53.43          | -43.01       | 10.42       |
| Above 7 400.00                | Not detected          | –         | –         | –           | –          | –       | –               | –            | –           |

### NR Band 48 Low Band (40 MHz – CP-OFDM-QPSK) IC MIMO

| Frequency (MHz)               | Measured Level (dBμV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | E (dBμV/m) | CF (dB) | E.I.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|-------------------------------|-----------------------|-----------|-----------|-------------|------------|---------|-----------------|--------------|-------------|
| Low Channel (3 570.00 MHz)    |                       |           |           |             |            |         |                 |              |             |
| 7 160.60                      | 34.13                 | H         | 35.82     | -29.15      | 40.80      | -95.26  | -54.46          | -33.01       | 21.45       |
| 7 144.44                      | 34.06                 | V         | 35.79     | -29.15      | 40.70      | -95.26  | -54.56          | -33.01       | 21.55       |
| Above 7 200.00                | Not detected          | –         | –         | –           | –          | –       | –               | –            | –           |
| Middle Channel (3 624.99 MHz) |                       |           |           |             |            |         |                 |              |             |
| 7 230.72                      | 33.46                 | H         | 35.96     | -29.15      | 40.27      | -95.26  | -54.99          | -33.01       | 21.98       |
| 7 261.12                      | 33.71                 | V         | 36.02     | -29.01      | 40.72      | -95.26  | -54.54          | -33.01       | 21.53       |
| Above 7 300.00                | Not detected          | –         | –         | –           | –          | –       | –               | –            | –           |
| High Channel (3 679.98 MHz)   |                       |           |           |             |            |         |                 |              |             |
| 7 348.46                      | 33.49                 | H         | 36.20     | -29.06      | 40.63      | -95.26  | -54.63          | -33.01       | 21.62       |
| 7 381.26                      | 34.61                 | V         | 36.26     | -29.04      | 41.83      | -95.26  | -53.43          | -33.01       | 20.42       |
| Above 7 400.00                | Not detected          | –         | –         | –           | –          | –       | –               | –            | –           |

**NR Band 77 Low Band (50 MHz - DFT-S-OFDM QPSK) FCC Diversity**

| Frequency (MHz)               | Measured Level (dBμV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | E (dBμV/m) | CF (dB) | E.I.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|-------------------------------|-----------------------|-----------|-----------|-------------|------------|---------|-----------------|--------------|-------------|
| Low Channel (3 475.02 MHz)    |                       |           |           |             |            |         |                 |              |             |
| 6 944.14                      | 33.56                 | H         | 35.59     | -29.16      | 39.99      | -95.26  | -55.27          | -16.01       | 39.26       |
| 6 968.69                      | 33.70                 | V         | 35.60     | -29.16      | 40.14      | -95.26  | -55.12          | -16.01       | 39.11       |
| Above 7 000.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| Middle Channel (3 500.01 MHz) |                       |           |           |             |            |         |                 |              |             |
| 7 018.97                      | 33.31                 | H         | 35.60     | -29.17      | 39.74      | -95.26  | -55.52          | -16.01       | 39.51       |
| 7 015.02                      | 33.19                 | V         | 35.60     | -29.16      | 39.63      | -95.26  | -55.63          | -16.01       | 39.62       |
| Above 7 100.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| High Channel (3 525.00 MHz)   |                       |           |           |             |            |         |                 |              |             |
| 7 039.50                      | 33.19                 | H         | 35.60     | -29.22      | 39.57      | -95.26  | -55.69          | -16.01       | 39.68       |
| 7 067.85                      | 33.45                 | V         | 35.64     | -29.21      | 39.88      | -95.26  | -55.38          | -16.01       | 39.37       |
| Above 7 100.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |

**NR Band 77 High Band (50 MHz - DFT-S-OFDM QPSK) FCC Diversity**

| Frequency (MHz)               | Measured Level (dBμV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | E (dBμV/m) | CF (dB) | E.I.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|-------------------------------|-----------------------|-----------|-----------|-------------|------------|---------|-----------------|--------------|-------------|
| Low Channel (3 725.01 MHz)    |                       |           |           |             |            |         |                 |              |             |
| 7 467.07                      | 32.66                 | H         | 36.17     | -28.96      | 39.87      | -95.26  | -55.39          | -16.01       | 39.38       |
| 7 428.67                      | 33.61                 | V         | 36.24     | -28.99      | 40.86      | -95.26  | -54.40          | -16.01       | 38.39       |
| Above 7 500.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| Middle Channel (3 840.00 MHz) |                       |           |           |             |            |         |                 |              |             |
| 7 704.70                      | 32.97                 | H         | 35.91     | -28.69      | 40.19      | -95.26  | -55.07          | -16.01       | 39.06       |
| 7 661.30                      | 34.69                 | V         | 35.98     | -28.75      | 41.92      | -95.26  | -53.34          | -16.01       | 37.33       |
| Above 7 800.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| High Channel (3 954.99 MHz)   |                       |           |           |             |            |         |                 |              |             |
| 7 925.93                      | 32.47                 | H         | 36.05     | -28.30      | 40.22      | -95.26  | -55.04          | -16.01       | 39.03       |
| 7 920.13                      | 33.57                 | V         | 36.04     | -28.31      | 41.30      | -95.26  | -53.96          | -16.01       | 37.95       |
| Above 8 000.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |

**NR Band 78 Low Band (50 MHz - CP-OFDM-QPSK)\_FCC\_MIMO**

| Frequency (MHz)               | Measured Level (dBμV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | E (dBμV/m) | CF (dB) | E.I.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|-------------------------------|-----------------------|-----------|-----------|-------------|------------|---------|-----------------|--------------|-------------|
| Low Channel (3 475.02 MHz)    |                       |           |           |             |            |         |                 |              |             |
| 6 993.60                      | 34.23                 | H         | 35.60     | -29.13      | 40.70      | -95.26  | -54.56          | -16.01       | 38.55       |
| 6 993.50                      | 33.01                 | V         | 35.60     | -29.13      | 39.48      | -95.26  | -55.78          | -16.01       | 39.77       |
| Above 7 000.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| Middle Channel (3 500.01 MHz) |                       |           |           |             |            |         |                 |              |             |
| 6 988.90                      | 33.91                 | H         | 35.60     | -29.14      | 40.37      | -95.26  | -54.89          | -16.01       | 38.88       |
| 6 952.40                      | 33.08                 | V         | 35.60     | -29.16      | 39.52      | -95.26  | -55.74          | -16.01       | 39.73       |
| Above 7 000.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| High Channel (3 525.00 MHz)   |                       |           |           |             |            |         |                 |              |             |
| 7 074.40                      | 33.93                 | H         | 35.65     | -29.21      | 40.37      | -95.26  | -54.89          | -16.01       | 38.88       |
| 7 070.90                      | 33.46                 | V         | 35.64     | -29.22      | 39.88      | -95.26  | -55.38          | -16.01       | 39.37       |
| Above 7 100.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |

**NR Band 78 High Band (50 MHz - CP-OFDM-QPSK)\_FCC\_MIMO**

| Frequency (MHz)               | Measured Level (dBμV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | E (dBμV/m) | CF (dB) | E.I.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|-------------------------------|-----------------------|-----------|-----------|-------------|------------|---------|-----------------|--------------|-------------|
| Low Channel (3 725.01 MHz)    |                       |           |           |             |            |         |                 |              |             |
| 7 493.30                      | 33.41                 | H         | 36.11     | -29.06      | 40.46      | -95.26  | -54.80          | -16.01       | 38.79       |
| 7 490.60                      | 33.40                 | V         | 36.12     | -29.05      | 40.47      | -95.26  | -54.79          | -16.01       | 38.78       |
| Above 7 500.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| Middle Channel (3 750.00 MHz) |                       |           |           |             |            |         |                 |              |             |
| 7 529.90                      | 33.11                 | H         | 36.04     | -28.99      | 40.16      | -95.26  | -55.10          | -16.01       | 39.09       |
| 7 520.10                      | 32.91                 | V         | 36.06     | -29.04      | 39.93      | -95.26  | -55.33          | -16.01       | 39.32       |
| Above 7 600.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| High Channel (3 774.99 MHz)   |                       |           |           |             |            |         |                 |              |             |
| 7 525.70                      | 33.96                 | H         | 36.05     | -29.01      | 41.00      | -95.26  | -54.26          | -16.01       | 38.25       |
| 7 593.60                      | 33.32                 | V         | 36.00     | -28.73      | 40.59      | -95.26  | -54.67          | -16.01       | 38.66       |
| Above 7 600.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |

**NR Band 77 Low Band (50 MHz - DFT-S-OFDM QPSK) IC Diversity**

| Frequency (MHz)               | Measured Level (dBμV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | E (dBμV/m) | CF (dB) | E.I.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|-------------------------------|-----------------------|-----------|-----------|-------------|------------|---------|-----------------|--------------|-------------|
| Low Channel (3 475.02 MHz)    |                       |           |           |             |            |         |                 |              |             |
| 6 935.64                      | 33.18                 | H         | 35.57     | -29.17      | 39.58      | -95.26  | -55.68          | -33.01       | 22.67       |
| 6 941.99                      | 33.23                 | V         | 35.58     | -29.16      | 39.65      | -95.26  | -55.61          | -33.01       | 22.60       |
| Above 7 000.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| Middle Channel (3 675.00 MHz) |                       |           |           |             |            |         |                 |              |             |
| 7 351.80                      | 33.36                 | H         | 36.20     | -29.06      | 40.50      | -95.26  | -54.76          | -33.01       | 21.75       |
| 7 335.50                      | 32.70                 | V         | 36.17     | -29.09      | 39.78      | -95.26  | -55.48          | -33.01       | 22.47       |
| Above 7 400.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| High Channel (3 874.98 MHz)   |                       |           |           |             |            |         |                 |              |             |
| 7 729.91                      | 33.08                 | H         | 35.96     | -28.65      | 40.39      | -95.26  | -54.87          | -33.01       | 21.86       |
| 7 731.56                      | 33.55                 | V         | 35.96     | -28.64      | 40.87      | -95.26  | -54.39          | -33.01       | 21.38       |
| Above 7 800.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |

**NR Band 77 High Band (50 MHz - DFT-S-OFDM QPSK) IC Diversity**

| Frequency (MHz)               | Measured Level (dBμV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | E (dBμV/m) | CF (dB) | E.I.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|-------------------------------|-----------------------|-----------|-----------|-------------|------------|---------|-----------------|--------------|-------------|
| Low Channel (3 925.02 MHz)    |                       |           |           |             |            |         |                 |              |             |
| 7 859.29                      | 32.95                 | H         | 36.00     | -28.41      | 40.54      | -95.26  | -54.72          | -16.01       | 38.71       |
| 7 826.99                      | 32.99                 | V         | 36.00     | -28.51      | 40.48      | -95.26  | -54.78          | -16.01       | 38.77       |
| Above 7 900.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| Middle Channel (3 939.99 MHz) |                       |           |           |             |            |         |                 |              |             |
| 7 885.88                      | 33.30                 | H         | 36.00     | -28.37      | 40.93      | -95.26  | -54.33          | -16.01       | 38.32       |
| 7 891.38                      | 33.21                 | V         | 36.00     | -28.36      | 40.85      | -95.26  | -54.41          | -16.01       | 38.40       |
| Above 7 900.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |
| High Channel (3 954.99 MHz)   |                       |           |           |             |            |         |                 |              |             |
| 7 901.23                      | 32.88                 | H         | 36.00     | -28.33      | 40.55      | -95.26  | -54.71          | -16.01       | 38.70       |
| 7 930.03                      | 32.70                 | V         | 36.06     | -28.30      | 40.46      | -95.26  | -54.80          | -16.01       | 38.79       |
| Above 8 000.00                | Not detected          | -         | -         | -           | -          | -       | -               | -            | -           |

**NR Band 78 (50 MHz - CP-OFDM-QPSK) IC MIMO**

| Frequency (MHz)               | Measured Level (dBμV) | Ant. Pol. | AF (dB/m) | AMP+CL (dB) | E (dBμV/m) | CF (dB) | E.I.R.P. (dB m) | Limit (dB m) | Margin (dB) |
|-------------------------------|-----------------------|-----------|-----------|-------------|------------|---------|-----------------|--------------|-------------|
| Low Channel (3 475.02 MHz)    |                       |           |           |             |            |         |                 |              |             |
| 6 946.60                      | 33.75                 | H         | 35.59     | -29.16      | 40.18      | -95.26  | -55.08          | -33.01       | 22.07       |
| 6 933.70                      | 32.93                 | V         | 35.57     | -29.17      | 39.33      | -95.26  | -55.93          | -33.01       | 22.92       |
| Above 7 000.00                | Not detected          | –         | –         | –           | –          | –       | –               | –            | –           |
| Middle Channel (3 624.99 MHz) |                       |           |           |             |            |         |                 |              |             |
| 7 280.90                      | 33.53                 | H         | 36.06     | -29.09      | 40.50      | -95.26  | -54.76          | -33.01       | 21.75       |
| 7 268.40                      | 34.48                 | V         | 36.04     | -29.03      | 41.49      | -95.26  | -53.77          | -33.01       | 20.76       |
| Above 7 300.00                | Not detected          | –         | –         | –           | –          | –       | –               | –            | –           |
| High Channel (3 774.99 MHz)   |                       |           |           |             |            |         |                 |              |             |
| 7 592.40                      | 33.59                 | H         | 36.00     | -28.73      | 40.86      | -95.26  | -54.40          | -33.01       | 21.39       |
| 7 548.70                      | 33.75                 | V         | 36.00     | -28.90      | 40.85      | -95.26  | -54.41          | -33.01       | 21.40       |
| Above 7 600.00                | Not detected          | –         | –         | –           | –          | –       | –               | –            | –           |

**Remark;**

1. AF = Antenna Factor, CL = Cable Loss, CF = Conversion Factor.
2. E (dBμV/m) = Measured Level (dBμV) + Antenna Factor (dB/m) + AMP (dB) + Cable Loss (dB).
3. E.I.R.P. (dB m) = E (dBμV/m) + CF (dB).
4. E.R.P. (dB m) = E (dBμV/m) + CF (dB) - 2.15 (dB); where E.R.P. and E.I.R.P. are expressed in consistent units.
5. CF (dB) = 20 log D - 104.8; where D is the measurement distance in meters, According to KDB 971168 D01 v03r01 5.8.4.
6. The frequency spectrum is examined from 9 kHz to the 10<sup>th</sup> harmonic of the fundamental frequency of the transmitter. No other spurious and harmonic emissions were reported greater than listed emissions above table.

### 3. Conducted Output Power

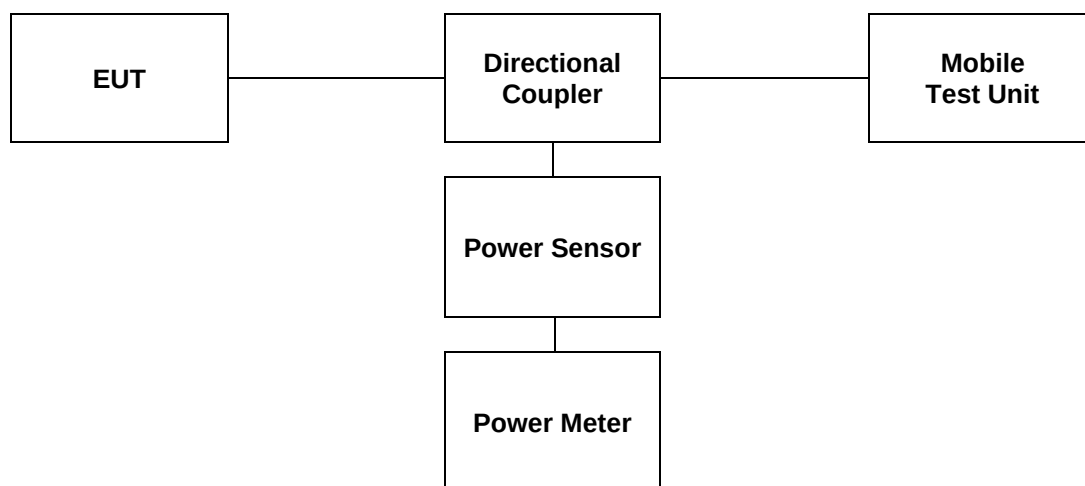
#### 3.1. Limit

CFR 47, Section FCC §2.1046 and IC RSS-Gen Issue 5 6.12.

#### 3.2. Test Procedure

Output power shall be measured at the RF output terminals for all configurations.

1. The RF output of the transmitter was connected to the input of the mobile test unit in order to establish communication with the EUT.
2. The EUT was set up for the max. output power with pseudo random data modulation by using mobile test unit parameters.
3. The measurement performed using a wideband RF power meter.
4. This EUT was tested under all configurations and the highest power was investigated and reported.



### 3.3. Test Result

Ambient temperature : (23 ± 1) °C  
 Relative humidity : 47 % R.H.

| NR Band 48  |              |            |        |                    |            |              |                          |              |                          |       |                          |       |
|-------------|--------------|------------|--------|--------------------|------------|--------------|--------------------------|--------------|--------------------------|-------|--------------------------|-------|
| BW<br>(MHz) | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |              |                          |       |                          |       |
|             |              |            |        |                    |            |              | 637334<br>(3 560.01 MHz) |              | 641666<br>(3 624.99 MHz) |       | 646000<br>(3 690.00 MHz) |       |
|             |              |            |        |                    |            |              | Port 1 + Port 2          |              |                          |       |                          |       |
|             |              | (dB m)     | (W)    | (dB m)             | (W)        | (dB m)       | (W)                      |              |                          |       |                          |       |
| 20          | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <u>20.71</u>             | <u>0.118</u> | 20.41                    | 0.110 | 20.15                    | 0.104 |
|             |              |            | 16QAM  |                    | 1          | 1            | <u>20.01</u>             | <u>0.100</u> | 19.71                    | 0.094 | 19.38                    | 0.087 |
|             |              |            | 64QAM  |                    | 1          | 1            | 18.60                    | 0.072        | 18.32                    | 0.068 | 17.99                    | 0.063 |
|             |              |            | 256QAM |                    | 1          | 1            | 15.71                    | 0.037        | 15.41                    | 0.035 | 15.11                    | 0.032 |
|             |              |            | QPSK   | Inner_1RB<br>Right | 1          | 49           | 20.62                    | 0.115        | 20.36                    | 0.109 | 20.10                    | 0.102 |
|             |              |            | QPSK   | Outer_Full         | 51         | 0            | 19.19                    | 0.083        | 18.89                    | 0.077 | 18.61                    | 0.073 |
| NR Band 48  |              |            |        |                    |            |              |                          |              |                          |       |                          |       |
| BW<br>(MHz) | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |              |                          |       |                          |       |
|             |              |            |        |                    |            |              | 637668<br>(3 565.02 MHz) |              | 641666<br>(3 624.99 MHz) |       | 645666<br>(3 684.99 MHz) |       |
|             |              |            |        |                    |            |              | Port 1 + Port 2          |              |                          |       |                          |       |
|             |              | (dB m)     | (W)    | (dB m)             | (W)        | (dB m)       | (W)                      |              |                          |       |                          |       |
| 30          | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <u>20.88</u>             | <u>0.122</u> | 20.59                    | 0.115 | 20.35                    | 0.108 |
|             |              |            | 16QAM  |                    | 1          | 1            | <u>20.11</u>             | <u>0.103</u> | 19.77                    | 0.095 | 19.58                    | 0.091 |
|             |              |            | 64QAM  |                    | 1          | 1            | 18.79                    | 0.076        | 18.43                    | 0.070 | 18.22                    | 0.066 |
|             |              |            | 256QAM |                    | 1          | 1            | 15.89                    | 0.039        | 15.53                    | 0.036 | 15.25                    | 0.033 |
|             |              |            | QPSK   | Inner_1RB<br>Right | 1          | 76           | 20.49                    | 0.112        | 20.34                    | 0.108 | 20.24                    | 0.106 |
|             |              |            | QPSK   | Outer_Full         | 78         | 0            | 19.10                    | 0.081        | 18.91                    | 0.078 | 18.73                    | 0.075 |
| NR Band 48  |              |            |        |                    |            |              |                          |              |                          |       |                          |       |
| BW<br>(MHz) | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |              |                          |       |                          |       |
|             |              |            |        |                    |            |              | 638000<br>(3 570.00 MHz) |              | 641666<br>(3 624.99 MHz) |       | 645332<br>(3 679.98 MHz) |       |
|             |              |            |        |                    |            |              | Port 1 + Port 2          |              |                          |       |                          |       |
|             |              | (dB m)     | (W)    | (dB m)             | (W)        | (dB m)       | (W)                      |              |                          |       |                          |       |
| 40          | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <u>20.90</u>             | <u>0.123</u> | 20.41                    | 0.110 | 20.14                    | 0.103 |
|             |              |            | 16QAM  |                    | 1          | 1            | <u>20.12</u>             | <u>0.103</u> | 19.72                    | 0.094 | 19.40                    | 0.087 |
|             |              |            | 64QAM  |                    | 1          | 1            | 18.77                    | 0.075        | 18.30                    | 0.068 | 18.01                    | 0.063 |
|             |              |            | 256QAM |                    | 1          | 1            | 15.88                    | 0.039        | 15.35                    | 0.034 | 15.10                    | 0.032 |
|             |              |            | QPSK   | Inner_1RB<br>Right | 1          | 104          | 20.24                    | 0.106        | 20.13                    | 0.103 | 20.06                    | 0.101 |
|             |              |            | QPSK   | Outer_Full         | 106        | 0            | 19.22                    | 0.084        | 18.97                    | 0.079 | 18.67                    | 0.074 |

| NR Band 77-Low Band (FCC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
|---------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>630668<br>(3 460.02 MHz) |              | Mid Channel<br>633334<br>(3 500.01 MHz) |              | High Channel<br>636000<br>(3 540.00 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 20                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.66                                   | 0.368        | 25.59                                   | 0.362        | 25.64                                    | 0.366        |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.67                                   | 0.369        | 25.61                                   | 0.364        | 25.57                                    | 0.361        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | <b>24.55</b>                            | <b>0.285</b> | 24.52                                   | 0.283        | 24.54                                    | 0.284        |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.17                                   | 0.207        | 23.11                                   | 0.205        | 23.17                                    | 0.207        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.87                                   | 0.122        | 20.92                                   | 0.124        | 20.84                                    | 0.121        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 49           | 25.53                                   | 0.357        | 25.53                                   | 0.357        | 25.59                                    | 0.362        |
|                           |              |                    | QPSK   |                    | 1          | 49           | 25.52                                   | 0.356        | 25.54                                   | 0.358        | 25.62                                    | 0.365        |
|                           |              |                    | BPSK   | Inner_Full         | 25         | 12           | 25.65                                   | 0.367        | <b>25.69</b>                            | <b>0.371</b> | 25.66                                    | 0.368        |
|                           |              |                    | QPSK   |                    | 25         | 12           | 25.66                                   | 0.368        | <b>25.70</b>                            | <b>0.372</b> | 25.61                                    | 0.364        |
|                           |              |                    | BPSK   | Outer_Full         | 50         | 0            | 24.65                                   | 0.292        | 24.68                                   | 0.294        | 24.64                                    | 0.291        |
|                           |              |                    | QPSK   |                    | 50         | 0            | 24.65                                   | 0.292        | 24.67                                   | 0.293        | 24.68                                    | 0.294        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.59                                   | 0.288        | 24.56                                   | 0.286        | 24.48                                    | 0.281        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.58                                   | 0.287        | 24.55                                   | 0.285        | 24.47                                    | 0.280        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.64                                   | 0.291        | 24.61                                   | 0.289        | 24.61                                    | 0.289        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.64                                   | 0.291        | 24.62                                   | 0.290        | 24.59                                    | 0.288        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 50           | 24.47                                   | 0.280        | 24.50                                   | 0.282        | 24.54                                    | 0.284        |
|                           |              |                    | QPSK   |                    | 1          | 50           | 24.46                                   | 0.279        | 24.51                                   | 0.282        | 24.53                                    | 0.284        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 49           | 24.54                                   | 0.284        | 24.56                                   | 0.286        | 24.60                                    | 0.288        |
|                           |              |                    | QPSK   |                    | 2          | 49           | 24.54                                   | 0.284        | 24.56                                   | 0.286        | 24.60                                    | 0.288        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>24.23</b>                            | <b>0.265</b> | 24.16                                   | 0.261        | 24.17                                    | 0.261        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | <b>23.65</b>                            | <b>0.232</b> | 23.59                                   | 0.229        | 23.55                                    | 0.226        |
| NR Band 77-Low Band (FCC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>631000<br>(3 465.00 MHz) |              | Mid Channel<br>633334<br>(3 500.01 MHz) |              | High Channel<br>635666<br>(3 534.99 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 30                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.62                                   | 0.365        | 25.75                                   | 0.376        | 25.77                                    | 0.378        |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.61                                   | 0.364        | 25.74                                   | 0.375        | 25.75                                    | 0.376        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.34                                   | 0.272        | 24.52                                   | 0.283        | <b>24.54</b>                             | <b>0.284</b> |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.19                                   | 0.208        | 23.26                                   | 0.212        | 23.27                                    | 0.212        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.85                                   | 0.122        | 21.05                                   | 0.127        | 21.07                                    | 0.128        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 76           | 25.47                                   | 0.352        | 25.64                                   | 0.366        | 25.66                                    | 0.368        |
|                           |              |                    | QPSK   |                    | 1          | 76           | 25.43                                   | 0.349        | 25.62                                   | 0.365        | 25.64                                    | 0.366        |
|                           |              |                    | BPSK   | Inner_Full         | 36         | 18           | 25.64                                   | 0.366        | 25.79                                   | 0.379        | <b>25.81</b>                             | <b>0.381</b> |
|                           |              |                    | QPSK   |                    | 36         | 18           | 25.66                                   | 0.368        | 25.79                                   | 0.379        | <b>25.82</b>                             | <b>0.382</b> |
|                           |              |                    | BPSK   | Outer_Full         | 75         | 0            | 24.64                                   | 0.291        | 24.76                                   | 0.299        | 24.77                                    | 0.300        |
|                           |              |                    | QPSK   |                    | 75         | 0            | 24.57                                   | 0.286        | 24.77                                   | 0.300        | 24.78                                    | 0.301        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.52                                   | 0.283        | 24.72                                   | 0.296        | 24.73                                    | 0.297        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.49                                   | 0.281        | 24.69                                   | 0.294        | 24.70                                    | 0.295        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.58                                   | 0.287        | 24.78                                   | 0.301        | 24.79                                    | 0.301        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.59                                   | 0.288        | 24.78                                   | 0.301        | 24.79                                    | 0.301        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 77           | 24.43                                   | 0.277        | 24.65                                   | 0.292        | 24.66                                    | 0.292        |
|                           |              |                    | QPSK   |                    | 1          | 77           | 24.40                                   | 0.275        | 24.58                                   | 0.287        | 24.59                                    | 0.288        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 76           | 24.50                                   | 0.282        | 24.70                                   | 0.295        | 24.72                                    | 0.296        |
|                           |              |                    | QPSK   |                    | 2          | 76           | 24.49                                   | 0.281        | 24.71                                   | 0.296        | 24.73                                    | 0.297        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.15                                   | 0.260        | 24.35                                   | 0.272        | <b>24.37</b>                             | <b>0.274</b> |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.58                                   | 0.228        | 23.77                                   | 0.238        | <b>23.79</b>                             | <b>0.239</b> |

| NR Band 77-Low Band (FCC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
|---------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|-------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>631334<br>(3 470.01 MHz) |       | Mid Channel<br>633334<br>(3 500.01 MHz) |              | High Channel<br>635332<br>(3 529.98 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                           |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |       |                                         |              |                                          |              |
| 40                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.60                                   | 0.363 | 25.59                                   | 0.362        | 25.60                                    | 0.363        |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.58                                   | 0.361 | 25.59                                   | 0.362        | 25.58                                    | 0.361        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.50                                   | 0.282 | <b>24.51</b>                            | <b>0.282</b> | 24.50                                    | 0.282        |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.11                                   | 0.205 | 23.09                                   | 0.204        | 23.11                                    | 0.205        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.88                                   | 0.122 | 20.90                                   | 0.123        | 20.88                                    | 0.122        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 104          | 25.40                                   | 0.347 | 25.44                                   | 0.350        | 25.40                                    | 0.347        |
|                           |              |                    | QPSK   |                    | 1          | 104          | 25.39                                   | 0.346 | 25.43                                   | 0.349        | 25.39                                    | 0.346        |
|                           |              |                    | BPSK   | Inner_Full         | 50         | 25           | 25.69                                   | 0.371 | <b>25.75</b>                            | <b>0.376</b> | 25.69                                    | 0.371        |
|                           |              |                    | QPSK   |                    | 50         | 25           | 25.70                                   | 0.372 | <b>25.77</b>                            | <b>0.378</b> | 25.70                                    | 0.372        |
|                           |              |                    | BPSK   | Outer_Full         | 100        | 0            | 24.66                                   | 0.292 | 24.74                                   | 0.298        | 24.66                                    | 0.292        |
|                           |              |                    | QPSK   |                    | 100        | 0            | 24.69                                   | 0.294 | 24.73                                   | 0.297        | 24.69                                    | 0.294        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.57                                   | 0.286 | 24.61                                   | 0.289        | 24.57                                    | 0.286        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.55                                   | 0.285 | 24.59                                   | 0.288        | 24.55                                    | 0.285        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.63                                   | 0.290 | 24.66                                   | 0.292        | 24.63                                    | 0.290        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.63                                   | 0.290 | 24.67                                   | 0.293        | 24.63                                    | 0.290        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 105          | 24.36                                   | 0.273 | 24.40                                   | 0.275        | 24.36                                    | 0.273        |
|                           |              |                    | QPSK   |                    | 1          | 105          | 24.35                                   | 0.272 | 24.39                                   | 0.275        | 24.35                                    | 0.272        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 104          | 24.42                                   | 0.277 | 24.47                                   | 0.280        | 24.42                                    | 0.277        |
|                           |              |                    | QPSK   |                    | 2          | 104          | 24.43                                   | 0.277 | 24.46                                   | 0.279        | 24.43                                    | 0.277        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.18                                   | 0.262 | <b>24.20</b>                            | <b>0.263</b> | 24.18                                    | 0.262        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.58                                   | 0.228 | <b>23.62</b>                            | <b>0.230</b> | 23.58                                    | 0.228        |
| NR Band 77-Low Band (FCC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>631668<br>(3 475.02 MHz) |       | Mid Channel<br>633334<br>(3 500.01 MHz) |              | High Channel<br>635000<br>(3 525.00 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                           |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |       |                                         |              |                                          |              |
| 50                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.73                                   | 0.374 | 25.82                                   | 0.382        | <b>25.94</b>                             | <b>0.393</b> |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.72                                   | 0.373 | 25.80                                   | 0.380        | <b>25.95</b>                             | <b>0.394</b> |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.57                                   | 0.286 | 24.55                                   | 0.285        | <b>24.73</b>                             | <b>0.297</b> |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.24                                   | 0.211 | 23.32                                   | 0.215        | 23.33                                    | 0.215        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.99                                   | 0.126 | 21.13                                   | 0.130        | 21.15                                    | 0.130        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 131          | 25.53                                   | 0.357 | 25.55                                   | 0.359        | 25.50                                    | 0.355        |
|                           |              |                    | QPSK   |                    | 1          | 131          | 25.54                                   | 0.358 | 25.54                                   | 0.358        | 25.50                                    | 0.355        |
|                           |              |                    | BPSK   | Inner_Full         | 64         | 32           | 25.81                                   | 0.381 | 25.87                                   | 0.386        | 25.85                                    | 0.385        |
|                           |              |                    | QPSK   |                    | 64         | 32           | 25.83                                   | 0.383 | 25.85                                   | 0.385        | 25.87                                    | 0.386        |
|                           |              |                    | BPSK   | Outer_Full         | 128        | 0            | 24.73                                   | 0.297 | 24.86                                   | 0.306        | 24.78                                    | 0.301        |
|                           |              |                    | QPSK   |                    | 128        | 0            | 24.65                                   | 0.292 | 24.85                                   | 0.305        | 24.80                                    | 0.302        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.66                                   | 0.292 | 24.78                                   | 0.301        | 24.81                                    | 0.303        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.64                                   | 0.291 | 24.75                                   | 0.299        | 24.81                                    | 0.303        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.72                                   | 0.296 | 24.85                                   | 0.305        | 24.89                                    | 0.308        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.72                                   | 0.296 | 24.84                                   | 0.305        | 24.88                                    | 0.308        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 132          | 24.46                                   | 0.279 | 24.51                                   | 0.282        | 24.43                                    | 0.277        |
|                           |              |                    | QPSK   |                    | 1          | 132          | 24.44                                   | 0.278 | 24.48                                   | 0.281        | 24.43                                    | 0.277        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 131          | 24.52                                   | 0.283 | 24.57                                   | 0.286        | 24.49                                    | 0.281        |
|                           |              |                    | QPSK   |                    | 2          | 131          | 24.52                                   | 0.283 | 24.57                                   | 0.286        | 24.51                                    | 0.282        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.34                                   | 0.272 | 24.46                                   | 0.279        | <b>24.47</b>                             | <b>0.280</b> |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.75                                   | 0.237 | 23.84                                   | 0.242        | <b>23.88</b>                             | <b>0.244</b> |

| NR Band 77-Low Band (FCC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |        |     |
|---------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|--------------|------------------------------------------|--------------|--------|-----|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |        |     |
|                           |              |                    |        |                    |            |              | Low Channel<br>632000<br>(3 480.00 MHz) |              | Mid Channel<br>633334<br>(3 500.01 MHz) |              | High Channel<br>634666<br>(3 519.99 MHz) |              |        |     |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              | (dB m) | (W) |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)          |        |     |
| 60                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.56                                   | 0.360        | 25.51                                   | 0.356        | <b>25.65</b>                             | <b>0.367</b> |        |     |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.54                                   | 0.358        | 25.50                                   | 0.355        | <b>25.66</b>                             | <b>0.368</b> |        |     |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.46                                   | 0.279        | 24.40                                   | 0.275        | <b>24.52</b>                             | <b>0.283</b> |        |     |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.09                                   | 0.204        | 23.02                                   | 0.200        | 23.17                                    | 0.207        |        |     |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.84                                   | 0.121        | 20.79                                   | 0.120        | 20.91                                    | 0.123        |        |     |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 160          | 25.33                                   | 0.341        | 25.28                                   | 0.337        | 25.30                                    | 0.339        |        |     |
|                           |              |                    | QPSK   |                    | 1          | 160          | 25.34                                   | 0.342        | 25.28                                   | 0.337        | 25.28                                    | 0.337        |        |     |
|                           |              |                    | BPSK   | Inner_Full         | 81         | 40           | 25.54                                   | 0.358        | 25.60                                   | 0.363        | 25.56                                    | 0.360        |        |     |
|                           |              |                    | QPSK   |                    | 81         | 40           | 25.54                                   | 0.358        | 25.59                                   | 0.362        | 25.58                                    | 0.361        |        |     |
|                           |              |                    | BPSK   | Outer_Full         | 162        | 0            | 24.61                                   | 0.289        | 24.63                                   | 0.290        | 24.61                                    | 0.289        |        |     |
|                           |              |                    | QPSK   |                    | 162        | 0            | 24.62                                   | 0.290        | 24.60                                   | 0.288        | 24.63                                    | 0.290        |        |     |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.52                                   | 0.283        | 24.45                                   | 0.279        | 24.59                                    | 0.288        |        |     |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.50                                   | 0.282        | 24.48                                   | 0.281        | 24.58                                    | 0.287        |        |     |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.58                                   | 0.287        | 24.51                                   | 0.282        | 24.65                                    | 0.292        |        |     |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.57                                   | 0.286        | 24.51                                   | 0.282        | 24.66                                    | 0.292        |        |     |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 161          | 24.30                                   | 0.269        | 24.20                                   | 0.263        | 24.24                                    | 0.265        |        |     |
|                           |              |                    | QPSK   |                    | 1          | 161          | 24.29                                   | 0.269        | 24.23                                   | 0.265        | 24.23                                    | 0.265        |        |     |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 160          | 24.36                                   | 0.273        | 24.28                                   | 0.268        | 24.31                                    | 0.270        |        |     |
|                           |              |                    | QPSK   |                    | 2          | 160          | 24.35                                   | 0.272        | 24.29                                   | 0.269        | 24.32                                    | 0.270        |        |     |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.16                                   | 0.261        | 24.10                                   | 0.257        | <b>24.24</b>                             | <b>0.265</b> |        |     |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.68                                   | 0.233        | 23.64                                   | 0.231        | <b>23.75</b>                             | <b>0.237</b> |        |     |
| NR Band 77-Low Band (FCC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |        |     |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |        |     |
|                           |              |                    |        |                    |            |              | Low Channel<br>632334<br>(3 485.01 MHz) |              | Mid Channel<br>633334<br>(3 500.01 MHz) |              | High Channel<br>634332<br>(3 514.98 MHz) |              |        |     |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              | (dB m) | (W) |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)          |        |     |
| 70                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.61                                   | 0.364        | 25.63                                   | 0.366        | <b>25.74</b>                             | <b>0.375</b> |        |     |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.57                                   | 0.361        | 25.61                                   | 0.364        | 25.57                                    | 0.361        |        |     |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.34                                   | 0.272        | <b>24.36</b>                            | <b>0.273</b> | 24.35                                    | 0.272        |        |     |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.11                                   | 0.205        | 23.11                                   | 0.205        | 23.11                                    | 0.205        |        |     |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.94                                   | 0.124        | 20.92                                   | 0.124        | 20.92                                    | 0.124        |        |     |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 187          | 25.31                                   | 0.340        | 25.30                                   | 0.339        | 25.33                                    | 0.341        |        |     |
|                           |              |                    | QPSK   |                    | 1          | 187          | 25.30                                   | 0.339        | 25.26                                   | 0.336        | 25.32                                    | 0.340        |        |     |
|                           |              |                    | BPSK   | Inner_Full         | 90         | 45           | 25.61                                   | 0.364        | 25.70                                   | 0.372        | 25.61                                    | 0.364        |        |     |
|                           |              |                    | QPSK   |                    | 90         | 45           | 25.62                                   | 0.365        | 25.72                                   | 0.373        | <b>25.76</b>                             | <b>0.377</b> |        |     |
|                           |              |                    | BPSK   | Outer_Full         | 180        | 0            | 24.62                                   | 0.290        | 24.64                                   | 0.291        | 24.68                                    | 0.294        |        |     |
|                           |              |                    | QPSK   |                    | 180        | 0            | 24.59                                   | 0.288        | 24.65                                   | 0.292        | 24.71                                    | 0.296        |        |     |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.55                                   | 0.285        | 24.57                                   | 0.286        | 24.57                                    | 0.286        |        |     |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.52                                   | 0.283        | 24.54                                   | 0.284        | 24.54                                    | 0.284        |        |     |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.61                                   | 0.289        | 24.63                                   | 0.290        | 24.63                                    | 0.290        |        |     |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.61                                   | 0.289        | 24.63                                   | 0.290        | 24.62                                    | 0.290        |        |     |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 188          | 24.23                                   | 0.265        | 24.24                                   | 0.265        | 24.27                                    | 0.267        |        |     |
|                           |              |                    | QPSK   |                    | 1          | 188          | 24.21                                   | 0.264        | 24.24                                   | 0.265        | 24.24                                    | 0.265        |        |     |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 187          | 24.29                                   | 0.269        | 24.32                                   | 0.270        | 24.33                                    | 0.271        |        |     |
|                           |              |                    | QPSK   |                    | 2          | 187          | 24.29                                   | 0.269        | 24.33                                   | 0.271        | 24.33                                    | 0.271        |        |     |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>24.24</b>                            | <b>0.265</b> | 24.21                                   | 0.264        | 24.24                                    | 0.265        |        |     |
|                           |              |                    | 16QAM  |                    | 1          | 1            | <b>23.62</b>                            | <b>0.230</b> | 23.59                                   | 0.229        | 23.62                                    | 0.230        |        |     |

| NR Band 77-Low Band (FCC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
|---------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|-------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>632668<br>(3 490.02 MHz) |       | Mid Channel<br>633334<br>(3 500.01 MHz) |              | High Channel<br>634000<br>(3 510.00 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                           |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |       |                                         |              |                                          |              |
| 80                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.68                                   | 0.370 | 25.67                                   | 0.369        | 25.66                                    | 0.368        |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.68                                   | 0.370 | 25.65                                   | 0.367        | 25.67                                    | 0.369        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.39                                   | 0.275 | <b>24.41</b>                            | <b>0.276</b> | 24.41                                    | 0.276        |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.16                                   | 0.207 | 23.16                                   | 0.207        | 23.19                                    | 0.208        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.95                                   | 0.124 | 20.94                                   | 0.124        | 20.96                                    | 0.125        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 215          | 25.27                                   | 0.337 | 25.31                                   | 0.340        | 25.32                                    | 0.340        |
|                           |              |                    | QPSK   |                    | 1          | 215          | 25.25                                   | 0.335 | 25.28                                   | 0.337        | 25.29                                    | 0.338        |
|                           |              |                    | BPSK   | Inner_Full         | 108        | 54           | 25.71                                   | 0.372 | 25.73                                   | 0.374        | <b>25.77</b>                             | <b>0.378</b> |
|                           |              |                    | QPSK   |                    | 108        | 54           | 25.70                                   | 0.372 | 25.74                                   | 0.375        | <b>25.79</b>                             | <b>0.379</b> |
|                           |              |                    | BPSK   | Outer_Full         | 216        | 0            | 24.64                                   | 0.291 | 24.66                                   | 0.292        | 24.69                                    | 0.294        |
|                           |              |                    | QPSK   |                    | 216        | 0            | 24.65                                   | 0.292 | 24.66                                   | 0.292        | 24.65                                    | 0.292        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.61                                   | 0.289 | 24.60                                   | 0.288        | 24.65                                    | 0.292        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.58                                   | 0.287 | 24.58                                   | 0.287        | 24.62                                    | 0.290        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.66                                   | 0.292 | 24.67                                   | 0.293        | 24.71                                    | 0.296        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.66                                   | 0.292 | 24.67                                   | 0.293        | 24.71                                    | 0.296        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 216          | 24.22                                   | 0.264 | 24.25                                   | 0.266        | 24.26                                    | 0.267        |
|                           |              |                    | QPSK   |                    | 1          | 216          | 24.23                                   | 0.265 | 24.23                                   | 0.265        | 24.25                                    | 0.266        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 215          | 24.32                                   | 0.270 | 24.33                                   | 0.271        | 24.34                                    | 0.272        |
|                           |              |                    | QPSK   |                    | 2          | 215          | 24.33                                   | 0.271 | 24.33                                   | 0.271        | 24.34                                    | 0.272        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.25                                   | 0.266 | 24.27                                   | 0.267        | <b>24.29</b>                             | <b>0.269</b> |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.65                                   | 0.232 | 23.68                                   | 0.233        | <b>23.69</b>                             | <b>0.234</b> |
| NR Band 77-Low Band (FCC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>633000<br>(3 495.00 MHz) |       | Mid Channel<br>633334<br>(3 500.01 MHz) |              | High Channel<br>633666<br>(3 504.99 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                           |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |       |                                         |              |                                          |              |
| 90                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.68                                   | 0.370 | 25.68                                   | 0.370        | <b>25.75</b>                             | <b>0.376</b> |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.67                                   | 0.369 | 25.67                                   | 0.369        | <b>25.76</b>                             | <b>0.377</b> |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.54                                   | 0.284 | 24.53                                   | 0.284        | <b>24.55</b>                             | <b>0.285</b> |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.19                                   | 0.208 | 23.16                                   | 0.207        | 23.23                                    | 0.210        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.96                                   | 0.125 | 20.95                                   | 0.124        | 21.04                                    | 0.127        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 243          | 25.20                                   | 0.331 | 25.18                                   | 0.330        | 25.26                                    | 0.336        |
|                           |              |                    | QPSK   |                    | 1          | 243          | 25.19                                   | 0.330 | 25.19                                   | 0.330        | 25.25                                    | 0.335        |
|                           |              |                    | BPSK   | Inner_Full         | 120        | 60           | 25.41                                   | 0.348 | 25.45                                   | 0.351        | 25.39                                    | 0.346        |
|                           |              |                    | QPSK   |                    | 120        | 60           | 25.44                                   | 0.350 | 25.51                                   | 0.356        | 25.41                                    | 0.348        |
|                           |              |                    | BPSK   | Outer_Full         | 243        | 0            | 24.53                                   | 0.284 | 24.53                                   | 0.284        | 24.64                                    | 0.291        |
|                           |              |                    | QPSK   |                    | 243        | 0            | 24.53                                   | 0.284 | 24.54                                   | 0.284        | 24.66                                    | 0.292        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.74                                   | 0.298 | 24.72                                   | 0.296        | 24.80                                    | 0.302        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.73                                   | 0.297 | 24.71                                   | 0.296        | 24.78                                    | 0.301        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.80                                   | 0.302 | 24.78                                   | 0.301        | 24.86                                    | 0.306        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.79                                   | 0.301 | 24.78                                   | 0.301        | 24.86                                    | 0.306        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 244          | 24.24                                   | 0.265 | 24.25                                   | 0.266        | 24.33                                    | 0.271        |
|                           |              |                    | QPSK   |                    | 1          | 244          | 24.29                                   | 0.269 | 24.27                                   | 0.267        | 24.32                                    | 0.270        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 243          | 24.34                                   | 0.272 | 24.33                                   | 0.271        | 24.39                                    | 0.275        |
|                           |              |                    | QPSK   |                    | 2          | 243          | 24.35                                   | 0.272 | 24.34                                   | 0.272        | 24.39                                    | 0.275        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.27                                   | 0.267 | 24.26                                   | 0.267        | <b>24.33</b>                             | 0.271        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.81                                   | 0.240 | 23.78                                   | 0.239        | <b>23.83</b>                             | 0.242        |

| NR Band 77-Low Band (FCC) |              |                    |        |                    |            |              |                        |     |                                         |              |        |     |
|---------------------------|--------------|--------------------|--------|--------------------|------------|--------------|------------------------|-----|-----------------------------------------|--------------|--------|-----|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power |     |                                         |              |        |     |
|                           |              |                    |        |                    |            |              | -                      |     | Mid Channel<br>633334<br>(3 500.01 MHz) |              | -      |     |
|                           |              |                    |        |                    |            |              |                        |     | Port 1 + Port 2                         |              |        |     |
|                           |              |                    |        |                    |            |              | (dB m)                 | (W) | (dB m)                                  | (W)          | (dB m) | (W) |
| 100                       | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | -                      | -   | <u>25.72</u>                            | <u>0.373</u> | -      | -   |
|                           |              |                    | QPSK   |                    | 1          | 1            | -                      | -   | <u>25.73</u>                            | <u>0.374</u> | -      | -   |
|                           |              |                    | 16QAM  |                    | 1          | 1            | -                      | -   | <u>24.43</u>                            | <u>0.277</u> | -      | -   |
|                           |              |                    | 64QAM  |                    | 1          | 1            | -                      | -   | 23.23                                   | 0.210        | -      | -   |
|                           |              |                    | 256QAM |                    | 1          | 1            | -                      | -   | 21.00                                   | 0.126        | -      | -   |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 271          | -                      | -   | 25.21                                   | 0.332        | -      | -   |
|                           |              |                    | QPSK   |                    | 1          | 271          | -                      | -   | 25.18                                   | 0.330        | -      | -   |
|                           |              |                    | BPSK   | Inner_Full         | 135        | 67           | -                      | -   | 25.59                                   | 0.362        | -      | -   |
|                           |              |                    | QPSK   |                    | 135        | 67           | -                      | -   | 25.61                                   | 0.364        | -      | -   |
|                           |              |                    | BPSK   | Outer_Full         | 270        | 0            | -                      | -   | 24.64                                   | 0.291        | -      | -   |
|                           |              |                    | QPSK   |                    | 270        | 0            | -                      | -   | 24.64                                   | 0.291        | -      | -   |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | -                      | -   | 24.65                                   | 0.292        | -      | -   |
|                           |              |                    | QPSK   |                    | 1          | 0            | -                      | -   | 24.63                                   | 0.290        | -      | -   |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | -                      | -   | 24.71                                   | 0.296        | -      | -   |
|                           |              |                    | QPSK   |                    | 2          | 0            | -                      | -   | 24.71                                   | 0.296        | -      | -   |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 272          | -                      | -   | 24.14                                   | 0.259        | -      | -   |
|                           |              |                    | QPSK   |                    | 1          | 272          | -                      | -   | 24.13                                   | 0.259        | -      | -   |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 271          | -                      | -   | 24.22                                   | 0.264        | -      | -   |
|                           |              |                    | QPSK   |                    | 2          | 271          | -                      | -   | 24.22                                   | 0.264        | -      | -   |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | -                      | -   | <u>24.30</u>                            | <u>0.269</u> | -      | -   |
|                           |              |                    | 16QAM  |                    | 1          | 1            | -                      | -   | <u>23.69</u>                            | <u>0.234</u> | -      | -   |

| NR Band 77-High Band (FCC) |              |                            |            |                    |            |              |                                         |              |                                         |              |                                          |       |
|----------------------------|--------------|----------------------------|------------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|--------------|------------------------------------------|-------|
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation                 |            | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |       |
|                            |              |                            |            |                    |            |              | Low Channel<br>647334<br>(3 710.01 MHz) |              | Mid Channel<br>656000<br>(3 840 MHz)    |              | High Channel<br>664666<br>(3 969.99 MHz) |       |
|                            |              |                            |            |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |       |
|                            |              |                            |            |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)   |
| 20                         | 30           | DFT<br>-S-<br>OFDM         | BPSK       | Inner_1RB<br>Left  | 1          | 1            | <b>25.46</b>                            | <b>0.352</b> | 25.40                                   | 0.347        | 25.29                                    | 0.338 |
|                            |              |                            | QPSK       |                    | 1          | 1            | <b>25.48</b>                            | <b>0.353</b> | 25.40                                   | 0.347        | 25.36                                    | 0.344 |
|                            |              |                            | 16QAM      |                    | 1          | 1            | <b>24.36</b>                            | <b>0.273</b> | 24.31                                   | 0.270        | 24.21                                    | 0.264 |
|                            |              |                            | 64QAM      |                    | 1          | 1            | 22.94                                   | 0.197        | 22.90                                   | 0.195        | 22.88                                    | 0.194 |
|                            |              |                            | 256QAM     | 1                  | 1          | 20.72        | 0.118                                   | 20.68        | 0.117                                   | 20.64        | 0.116                                    |       |
|                            |              |                            | BPSK       | Inner_1RB<br>Right | 1          | 49           | 25.32                                   | 0.340        | 25.11                                   | 0.324        | 24.99                                    | 0.316 |
|                            |              |                            | QPSK       |                    | 1          | 49           | 25.32                                   | 0.340        | 25.13                                   | 0.326        | 24.72                                    | 0.296 |
|                            |              |                            | BPSK       | Inner_Full         | 25         | 12           | 25.41                                   | 0.348        | 25.24                                   | 0.334        | 25.26                                    | 0.336 |
|                            |              |                            | QPSK       |                    | 25         | 12           | 25.44                                   | 0.350        | 25.26                                   | 0.336        | 25.15                                    | 0.327 |
|                            |              |                            | BPSK       | Outer_Full         | 50         | 0            | 24.44                                   | 0.278        | 24.34                                   | 0.272        | 24.36                                    | 0.273 |
|                            |              |                            | QPSK       |                    | 50         | 0            | 24.42                                   | 0.277        | 24.36                                   | 0.273        | 24.35                                    | 0.272 |
|                            |              |                            | BPSK       | Edge_1RB<br>Left   | 1          | 0            | 24.38                                   | 0.274        | 24.35                                   | 0.272        | 24.27                                    | 0.267 |
|                            |              |                            | QPSK       |                    | 1          | 0            | 24.37                                   | 0.274        | 24.34                                   | 0.272        | 24.31                                    | 0.270 |
|                            |              |                            | BPSK       | Edge_Full<br>Left  | 2          | 0            | 24.41                                   | 0.276        | 24.40                                   | 0.275        | 24.32                                    | 0.270 |
|                            |              |                            | QPSK       |                    | 2          | 0            | 24.48                                   | 0.281        | 24.41                                   | 0.276        | 24.39                                    | 0.275 |
|                            |              |                            | BPSK       | Edge_1RB<br>Right  | 1          | 50           | 24.24                                   | 0.265        | 24.10                                   | 0.257        | 24.17                                    | 0.261 |
|                            |              |                            | QPSK       |                    | 1          | 50           | 24.23                                   | 0.265        | 24.01                                   | 0.252        | 24.15                                    | 0.260 |
|                            |              |                            | BPSK       | Edge_Full<br>Right | 2          | 49           | 24.30                                   | 0.269        | 24.11                                   | 0.258        | 24.23                                    | 0.265 |
|                            |              |                            | QPSK       |                    | 2          | 49           | 24.30                                   | 0.269        | 24.12                                   | 0.258        | 24.23                                    | 0.265 |
|                            |              |                            | CP<br>OFDM | QPSK               | Inner_1RB  | 1            | 1                                       | <b>24.05</b> | <b>0.254</b>                            | 24.00        | 0.251                                    | 23.89 |
|                            |              | 16QAM                      |            | Left               | 1          | 1            | <b>23.44</b>                            | <b>0.221</b> | 23.43                                   | 0.220        | 23.29                                    | 0.213 |
|                            |              | NR Band 77-High Band (FCC) |            |                    |            |              |                                         |              |                                         |              |                                          |       |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation                 |            | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |       |
|                            |              |                            |            |                    |            |              | Low Channel<br>647668<br>(3 715.02 MHz) |              | Mid Channel<br>656000<br>(3 840.00 MHz) |              | High Channel<br>664332<br>(3 964.98 MHz) |       |
|                            |              |                            |            |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |       |
|                            |              |                            |            |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)   |
| 30                         | 30           | DFT<br>-S-<br>OFDM         | BPSK       | Inner_1RB<br>Left  | 1          | 1            | 25.56                                   | 0.360        | <b>25.61</b>                            | <b>0.364</b> | 25.45                                    | 0.351 |
|                            |              |                            | QPSK       |                    | 1          | 1            | 25.55                                   | 0.359        | <b>25.62</b>                            | <b>0.365</b> | 25.49                                    | 0.354 |
|                            |              |                            | 16QAM      |                    | 1          | 1            | <b>24.46</b>                            | <b>0.279</b> | 24.44                                   | 0.278        | 24.36                                    | 0.273 |
|                            |              |                            | 64QAM      |                    | 1          | 1            | 23.06                                   | 0.202        | 23.12                                   | 0.205        | 22.93                                    | 0.196 |
|                            |              |                            | 256QAM     | 1                  | 1          | 20.89        | 0.123                                   | 20.93        | 0.124                                   | 20.94        | 0.124                                    |       |
|                            |              |                            | BPSK       | Inner_1RB<br>Right | 1          | 76           | 25.51                                   | 0.356        | 25.38                                   | 0.345        | 25.28                                    | 0.337 |
|                            |              |                            | QPSK       |                    | 1          | 76           | 25.50                                   | 0.355        | 25.36                                   | 0.344        | 25.27                                    | 0.337 |
|                            |              |                            | BPSK       | Inner_Full         | 36         | 18           | 25.54                                   | 0.358        | 25.57                                   | 0.361        | 25.27                                    | 0.337 |
|                            |              |                            | QPSK       |                    | 36         | 18           | 25.54                                   | 0.358        | 25.55                                   | 0.359        | 25.35                                    | 0.343 |
|                            |              |                            | BPSK       | Outer_Full         | 75         | 0            | 24.53                                   | 0.284        | 24.55                                   | 0.285        | 24.36                                    | 0.273 |
|                            |              |                            | QPSK       |                    | 75         | 0            | 24.51                                   | 0.282        | 24.55                                   | 0.285        | 24.44                                    | 0.278 |
|                            |              |                            | BPSK       | Edge_1RB<br>Left   | 1          | 0            | 24.55                                   | 0.285        | 24.59                                   | 0.288        | 24.52                                    | 0.283 |
|                            |              |                            | QPSK       |                    | 1          | 0            | 24.52                                   | 0.283        | 24.58                                   | 0.287        | 24.49                                    | 0.281 |
|                            |              |                            | BPSK       | Edge_Full<br>Left  | 2          | 0            | 24.60                                   | 0.288        | 24.66                                   | 0.292        | 24.58                                    | 0.287 |
|                            |              |                            | QPSK       |                    | 2          | 0            | 24.60                                   | 0.288        | 24.66                                   | 0.292        | 24.57                                    | 0.286 |
|                            |              |                            | BPSK       | Edge_1RB<br>Right  | 1          | 77           | 24.44                                   | 0.278        | 24.31                                   | 0.270        | 24.35                                    | 0.272 |
|                            |              |                            | QPSK       |                    | 1          | 77           | 24.41                                   | 0.276        | 24.25                                   | 0.266        | 24.36                                    | 0.273 |
|                            |              |                            | BPSK       | Edge_Full<br>Right | 2          | 76           | 24.49                                   | 0.281        | 24.37                                   | 0.274        | 24.42                                    | 0.277 |
|                            |              |                            | QPSK       |                    | 2          | 76           | 24.42                                   | 0.277        | 24.30                                   | 0.269        | 24.43                                    | 0.277 |
|                            |              |                            | CP<br>OFDM | QPSK               | Inner_1RB  | 1            | 1                                       | 24.15        | 0.260                                   | <b>24.20</b> | <b>0.263</b>                             | 24.03 |
|                            |              | 16QAM                      |            | Left               | 1          | 1            | 23.56                                   | 0.227        | <b>23.62</b>                            | <b>0.230</b> | 23.49                                    | 0.223 |

| NR Band 77-High Band (FCC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
|----------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                            |              |                    |        |                    |            |              | Low Channel<br>648000<br>(3 720.00 MHz) |              | Mid Channel<br>656000<br>(3 840.00 MHz) |              | High Channel<br>664000<br>(3 960.00 MHz) |              |
|                            |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                            |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |              |                                         |              |                                          |              |
| 40                         | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.59                                   | 0.362        | 25.59                                   | 0.362        | <b>25.64</b>                             | <b>0.366</b> |
|                            |              |                    | QPSK   |                    | 1          | 1            | 25.63                                   | 0.366        | 25.67                                   | 0.369        | 25.56                                    | 0.360        |
|                            |              |                    | 16QAM  |                    | 1          | 1            | <b>24.45</b>                            | <b>0.279</b> | 24.43                                   | 0.277        | 24.41                                    | 0.276        |
|                            |              |                    | 64QAM  |                    | 1          | 1            | 23.06                                   | 0.202        | 23.07                                   | 0.203        | 23.06                                    | 0.202        |
|                            |              |                    | 256QAM |                    | 1          | 1            | 20.86                                   | 0.122        | 20.85                                   | 0.122        | 20.86                                    | 0.122        |
|                            |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 104          | 25.36                                   | 0.344        | 25.26                                   | 0.336        | 25.40                                    | 0.347        |
|                            |              |                    | QPSK   |                    | 1          | 104          | 25.35                                   | 0.343        | 25.25                                   | 0.335        | 25.40                                    | 0.347        |
|                            |              |                    | BPSK   | Inner_Full         | 50         | 25           | 25.61                                   | 0.364        | 25.61                                   | 0.364        | 25.09                                    | 0.323        |
|                            |              |                    | QPSK   |                    | 50         | 25           | 25.67                                   | 0.369        | <b>25.70</b>                            | <b>0.372</b> | 25.04                                    | 0.319        |
|                            |              |                    | BPSK   | Outer_Full         | 100        | 0            | 24.63                                   | 0.290        | 24.64                                   | 0.291        | 24.42                                    | 0.277        |
|                            |              |                    | QPSK   |                    | 100        | 0            | 24.64                                   | 0.291        | 24.66                                   | 0.292        | 24.50                                    | 0.282        |
|                            |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.50                                   | 0.282        | 24.53                                   | 0.284        | 24.61                                    | 0.289        |
|                            |              |                    | QPSK   |                    | 1          | 0            | 24.50                                   | 0.282        | 24.52                                   | 0.283        | 24.57                                    | 0.286        |
|                            |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.59                                   | 0.288        | 24.58                                   | 0.287        | 24.64                                    | 0.291        |
|                            |              |                    | QPSK   |                    | 2          | 0            | 24.57                                   | 0.286        | 24.58                                   | 0.287        | 24.60                                    | 0.288        |
|                            |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 105          | 24.34                                   | 0.272        | 24.24                                   | 0.265        | 24.30                                    | 0.269        |
|                            |              |                    | QPSK   |                    | 1          | 105          | 24.32                                   | 0.270        | 24.23                                   | 0.265        | 24.29                                    | 0.269        |
|                            |              |                    | BPSK   | Edge_Full<br>Right | 2          | 104          | 24.39                                   | 0.275        | 24.30                                   | 0.269        | 24.36                                    | 0.273        |
|                            |              |                    | QPSK   |                    | 2          | 104          | 24.35                                   | 0.272        | 24.21                                   | 0.264        | 24.36                                    | 0.273        |
|                            |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.09                                   | 0.256        | <b>24.12</b>                            | <b>0.258</b> | 24.02                                    | 0.252        |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 23.51                                   | 0.224        | <b>23.54</b>                            | <b>0.226</b> | 23.45                                    | 0.221        |
| NR Band 77-High Band (FCC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                            |              |                    |        |                    |            |              | Low Channel<br>648334<br>(3 725.01 MHz) |              | Mid Channel<br>656000<br>(3 840.00 MHz) |              | High Channel<br>663666<br>(3 954.99 MHz) |              |
|                            |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                            |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |              |                                         |              |                                          |              |
| 50                         | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.63                                   | 0.366        | 25.73                                   | 0.374        | <b>25.88</b>                             | <b>0.387</b> |
|                            |              |                    | QPSK   |                    | 1          | 1            | 25.62                                   | 0.365        | 25.76                                   | 0.377        | <b>25.89</b>                             | <b>0.388</b> |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 24.47                                   | 0.280        | 24.63                                   | 0.290        | <b>24.65</b>                             | <b>0.292</b> |
|                            |              |                    | 64QAM  |                    | 1          | 1            | 23.14                                   | 0.206        | 23.24                                   | 0.211        | 23.42                                    | 0.220        |
|                            |              |                    | 256QAM |                    | 1          | 1            | 20.89                                   | 0.123        | 21.03                                   | 0.127        | 21.21                                    | 0.132        |
|                            |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 131          | 25.50                                   | 0.355        | 25.36                                   | 0.344        | 25.33                                    | 0.341        |
|                            |              |                    | QPSK   |                    | 1          | 131          | 25.50                                   | 0.355        | 25.35                                   | 0.343        | 25.47                                    | 0.352        |
|                            |              |                    | BPSK   | Inner_Full         | 64         | 32           | 25.73                                   | 0.374        | 25.61                                   | 0.364        | 25.35                                    | 0.343        |
|                            |              |                    | QPSK   |                    | 64         | 32           | 25.69                                   | 0.371        | 25.60                                   | 0.363        | 25.29                                    | 0.338        |
|                            |              |                    | BPSK   | Outer_Full         | 128        | 0            | 24.69                                   | 0.294        | 24.78                                   | 0.301        | 24.73                                    | 0.297        |
|                            |              |                    | QPSK   |                    | 128        | 0            | 24.68                                   | 0.294        | 24.78                                   | 0.301        | 24.73                                    | 0.297        |
|                            |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.55                                   | 0.285        | 24.71                                   | 0.296        | 24.90                                    | 0.309        |
|                            |              |                    | QPSK   |                    | 1          | 0            | 24.57                                   | 0.286        | 24.69                                   | 0.294        | 24.87                                    | 0.307        |
|                            |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.65                                   | 0.292        | 24.76                                   | 0.299        | 24.95                                    | 0.313        |
|                            |              |                    | QPSK   |                    | 2          | 0            | 24.65                                   | 0.292        | 24.76                                   | 0.299        | 24.95                                    | 0.313        |
|                            |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 132          | 24.41                                   | 0.276        | 24.19                                   | 0.262        | 24.45                                    | 0.279        |
|                            |              |                    | QPSK   |                    | 1          | 132          | 24.40                                   | 0.275        | 24.28                                   | 0.268        | 24.43                                    | 0.277        |
|                            |              |                    | BPSK   | Edge_Full<br>Right | 2          | 131          | 24.48                                   | 0.281        | 24.30                                   | 0.269        | 24.52                                    | 0.283        |
|                            |              |                    | QPSK   |                    | 2          | 131          | 24.49                                   | 0.281        | 24.33                                   | 0.271        | 24.51                                    | 0.282        |
|                            |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.19                                   | 0.262        | 24.32                                   | 0.270        | <b>24.34</b>                             | <b>0.272</b> |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 23.65                                   | 0.232        | 23.79                                   | 0.239        | <b>23.94</b>                             | <b>0.248</b> |

| NR Band 77-High Band (FCC) |              |                    |        |                    |            |              |                                         |              |                                         |       |                                          |              |
|----------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|-------|------------------------------------------|--------------|
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |       |                                          |              |
|                            |              |                    |        |                    |            |              | Low Channel<br>648668<br>(3 730.02 MHz) |              | Mid Channel<br>656000<br>(3 840.00 MHz) |       | High Channel<br>663332<br>(3 949.98 MHz) |              |
|                            |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |       |                                          |              |
|                            |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)   | (dB m)                                   | (W)          |
| 60                         | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.26                                   | 0.336        | 24.94                                   | 0.312 | 25.13                                    | 0.326        |
|                            |              |                    | QPSK   |                    | 1          | 1            | <b>25.30</b>                            | <b>0.339</b> | 24.96                                   | 0.313 | 25.10                                    | 0.324        |
|                            |              |                    | 16QAM  |                    | 1          | 1            | <b>24.03</b>                            | <b>0.253</b> | 23.70                                   | 0.234 | 23.88                                    | 0.244        |
|                            |              |                    | 64QAM  |                    | 1          | 1            | 22.76                                   | 0.189        | 22.43                                   | 0.175 | 22.61                                    | 0.182        |
|                            |              |                    | 256QAM |                    | 1          | 1            | 20.57                                   | 0.114        | 20.25                                   | 0.106 | 20.41                                    | 0.110        |
|                            |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 160          | 24.93                                   | 0.311        | 24.46                                   | 0.279 | 24.72                                    | 0.296        |
|                            |              |                    | QPSK   |                    | 1          | 160          | 24.89                                   | 0.308        | 24.45                                   | 0.279 | 24.60                                    | 0.288        |
|                            |              |                    | BPSK   | Inner_Full         | 81         | 40           | <b>25.29</b>                            | <b>0.338</b> | 24.89                                   | 0.308 | 24.97                                    | 0.314        |
|                            |              |                    | QPSK   |                    | 81         | 40           | 25.28                                   | 0.337        | 24.89                                   | 0.308 | 25.00                                    | 0.316        |
|                            |              |                    | BPSK   | Outer_Full         | 162        | 0            | 24.32                                   | 0.270        | 23.92                                   | 0.247 | 24.08                                    | 0.256        |
|                            |              |                    | QPSK   |                    | 162        | 0            | 24.32                                   | 0.270        | 23.91                                   | 0.246 | 24.09                                    | 0.256        |
|                            |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.27                                   | 0.267        | 23.91                                   | 0.246 | 24.10                                    | 0.257        |
|                            |              |                    | QPSK   |                    | 1          | 0            | 24.24                                   | 0.265        | 23.88                                   | 0.244 | 24.07                                    | 0.255        |
|                            |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.33                                   | 0.271        | 23.98                                   | 0.250 | 24.19                                    | 0.262        |
|                            |              |                    | QPSK   |                    | 2          | 0            | 24.35                                   | 0.272        | 23.98                                   | 0.250 | 24.20                                    | 0.263        |
|                            |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 161          | 23.93                                   | 0.247        | 23.45                                   | 0.221 | 23.72                                    | 0.236        |
|                            |              |                    | QPSK   |                    | 1          | 161          | 23.92                                   | 0.247        | 23.36                                   | 0.217 | 23.70                                    | 0.234        |
|                            |              |                    | BPSK   | Edge_Full<br>Right | 2          | 160          | 24.00                                   | 0.251        | 23.41                                   | 0.219 | 23.78                                    | 0.239        |
|                            |              |                    | QPSK   |                    | 2          | 160          | 23.98                                   | 0.250        | 23.45                                   | 0.221 | 23.77                                    | 0.238        |
|                            |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>23.92</b>                            | <b>0.247</b> | 23.58                                   | 0.228 | 23.75                                    | 0.237        |
|                            |              |                    | 16QAM  |                    | 1          | 1            | <b>23.49</b>                            | <b>0.223</b> | 23.08                                   | 0.203 | 23.30                                    | 0.214        |
| NR Band 77-High Band (FCC) |              |                    |        |                    |            |              |                                         |              |                                         |       |                                          |              |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |       |                                          |              |
|                            |              |                    |        |                    |            |              | Low Channel<br>649000<br>(3 735.00 MHz) |              | Mid Channel<br>656000<br>(3 840.00 MHz) |       | High Channel<br>663000<br>(3 945.00 MHz) |              |
|                            |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |       |                                          |              |
|                            |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)   | (dB m)                                   | (W)          |
| 70                         | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.12                                   | 0.325        | 25.10                                   | 0.324 | <b>25.20</b>                             | <b>0.331</b> |
|                            |              |                    | QPSK   |                    | 1          | 1            | 25.12                                   | 0.325        | 25.09                                   | 0.323 | <b>25.21</b>                             | <b>0.332</b> |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 23.86                                   | 0.243        | 23.83                                   | 0.242 | <b>23.94</b>                             | <b>0.248</b> |
|                            |              |                    | 64QAM  |                    | 1          | 1            | 22.66                                   | 0.185        | 22.62                                   | 0.183 | 22.68                                    | 0.185        |
|                            |              |                    | 256QAM |                    | 1          | 1            | 20.42                                   | 0.110        | 20.36                                   | 0.109 | 20.48                                    | 0.112        |
|                            |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 187          | 24.63                                   | 0.290        | 24.56                                   | 0.286 | 24.68                                    | 0.294        |
|                            |              |                    | QPSK   |                    | 1          | 187          | 24.61                                   | 0.289        | 24.55                                   | 0.285 | 24.67                                    | 0.293        |
|                            |              |                    | BPSK   | Inner_Full         | 90         | 45           | 25.09                                   | 0.323        | 25.16                                   | 0.328 | 25.16                                    | 0.328        |
|                            |              |                    | QPSK   |                    | 90         | 45           | 25.14                                   | 0.327        | 25.17                                   | 0.329 | 25.20                                    | 0.331        |
|                            |              |                    | BPSK   | Outer_Full         | 180        | 0            | 24.08                                   | 0.256        | 24.08                                   | 0.256 | 24.14                                    | 0.259        |
|                            |              |                    | QPSK   |                    | 180        | 0            | 24.09                                   | 0.256        | 24.08                                   | 0.256 | 24.14                                    | 0.259        |
|                            |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.06                                   | 0.255        | 24.01                                   | 0.252 | 24.14                                    | 0.259        |
|                            |              |                    | QPSK   |                    | 1          | 0            | 24.05                                   | 0.254        | 23.99                                   | 0.251 | 24.12                                    | 0.258        |
|                            |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.13                                   | 0.259        | 24.09                                   | 0.256 | 24.19                                    | 0.262        |
|                            |              |                    | QPSK   |                    | 2          | 0            | 24.12                                   | 0.258        | 24.09                                   | 0.256 | 24.20                                    | 0.263        |
|                            |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 188          | 23.54                                   | 0.226        | 23.49                                   | 0.223 | 23.61                                    | 0.230        |
|                            |              |                    | QPSK   |                    | 1          | 188          | 23.53                                   | 0.225        | 23.46                                   | 0.222 | 23.59                                    | 0.229        |
|                            |              |                    | BPSK   | Edge_Full<br>Right | 2          | 187          | 23.62                                   | 0.230        | 23.54                                   | 0.226 | 23.69                                    | 0.234        |
|                            |              |                    | QPSK   |                    | 2          | 187          | 23.62                                   | 0.230        | 23.54                                   | 0.226 | 23.70                                    | 0.234        |
|                            |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 23.75                                   | 0.237        | 23.71                                   | 0.235 | <b>23.79</b>                             | <b>0.239</b> |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 23.13                                   | 0.206        | 23.09                                   | 0.204 | <b>23.18</b>                             | <b>0.208</b> |

| NR Band 77-High Band (FCC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
|----------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|-------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                            |              |                    |        |                    |            |              | Low Channel<br>649334<br>(3 740.01 MHz) |       | Mid Channel<br>656000<br>(3 840.00 MHz) |              | High Channel<br>662666<br>(3 939.99 MHz) |              |
|                            |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                            |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |       |                                         |              |                                          |              |
| 80                         | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.12                                   | 0.325 | 25.15                                   | 0.327        | <b>25.16</b>                             | <b>0.328</b> |
|                            |              |                    | QPSK   |                    | 1          | 1            | 25.05                                   | 0.320 | 25.14                                   | 0.327        | 25.05                                    | 0.320        |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 23.93                                   | 0.247 | <b>23.97</b>                            | <b>0.249</b> | 23.96                                    | 0.249        |
|                            |              |                    | 64QAM  |                    | 1          | 1            | 22.44                                   | 0.175 | 22.52                                   | 0.179        | 22.52                                    | 0.179        |
|                            |              |                    | 256QAM |                    | 1          | 1            | 20.28                                   | 0.107 | 20.39                                   | 0.109        | 20.40                                    | 0.110        |
|                            |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 215          | 24.45                                   | 0.279 | 24.56                                   | 0.286        | 24.59                                    | 0.288        |
|                            |              |                    | QPSK   |                    | 1          | 215          | 24.44                                   | 0.278 | 24.54                                   | 0.284        | 24.58                                    | 0.287        |
|                            |              |                    | BPSK   | Inner_Full         | 108        | 54           | 25.02                                   | 0.318 | 25.15                                   | 0.327        | 25.06                                    | 0.321        |
|                            |              |                    | QPSK   |                    | 108        | 54           | 25.04                                   | 0.319 | <b>25.17</b>                            | <b>0.329</b> | 25.12                                    | 0.325        |
|                            |              |                    | BPSK   | Outer_Full         | 216        | 0            | 23.89                                   | 0.245 | 24.00                                   | 0.251        | 24.03                                    | 0.253        |
|                            |              |                    | QPSK   |                    | 216        | 0            | 23.88                                   | 0.244 | 24.00                                   | 0.251        | 24.04                                    | 0.254        |
|                            |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 23.93                                   | 0.247 | 24.03                                   | 0.253        | 23.99                                    | 0.251        |
|                            |              |                    | QPSK   |                    | 1          | 0            | 23.92                                   | 0.247 | 24.01                                   | 0.252        | 23.97                                    | 0.249        |
|                            |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.03                                   | 0.253 | 24.10                                   | 0.257        | 24.06                                    | 0.255        |
|                            |              |                    | QPSK   |                    | 2          | 0            | 24.03                                   | 0.253 | 24.10                                   | 0.257        | 24.08                                    | 0.256        |
|                            |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 216          | 23.29                                   | 0.213 | 23.44                                   | 0.221        | 23.50                                    | 0.224        |
|                            |              |                    | QPSK   |                    | 1          | 216          | 23.28                                   | 0.213 | 23.43                                   | 0.220        | 23.49                                    | 0.223        |
|                            |              |                    | BPSK   | Edge_Full<br>Right | 2          | 215          | 23.35                                   | 0.216 | 23.51                                   | 0.224        | 23.59                                    | 0.229        |
|                            |              |                    | QPSK   |                    | 2          | 215          | 23.35                                   | 0.216 | 23.50                                   | 0.224        | 23.58                                    | 0.228        |
|                            |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 23.64                                   | 0.231 | <b>23.68</b>                            | <b>0.233</b> | 23.67                                    | 0.233        |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 23.03                                   | 0.201 | <b>23.09</b>                            | <b>0.204</b> | 23.06                                    | 0.202        |
| NR Band 77-High Band (FCC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                            |              |                    |        |                    |            |              | Low Channel<br>649668<br>(3 745.02 MHz) |       | Mid Channel<br>656000<br>(3 840.00 MHz) |              | High Channel<br>662332<br>(3 934.98 MHz) |              |
|                            |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                            |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |       |                                         |              |                                          |              |
| 90                         | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.18                                   | 0.330 | 25.11                                   | 0.324        | <b>25.44</b>                             | <b>0.350</b> |
|                            |              |                    | QPSK   |                    | 1          | 1            | 25.17                                   | 0.329 | 25.11                                   | 0.324        | <b>25.48</b>                             | <b>0.353</b> |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 23.99                                   | 0.251 | 24.00                                   | 0.251        | <b>24.21</b>                             | <b>0.264</b> |
|                            |              |                    | 64QAM  |                    | 1          | 1            | 22.69                                   | 0.186 | 22.62                                   | 0.183        | 22.99                                    | 0.199        |
|                            |              |                    | 256QAM |                    | 1          | 1            | 20.51                                   | 0.112 | 20.44                                   | 0.111        | 20.76                                    | 0.119        |
|                            |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 243          | 24.64                                   | 0.291 | 24.54                                   | 0.284        | 24.89                                    | 0.308        |
|                            |              |                    | QPSK   |                    | 1          | 243          | 24.60                                   | 0.288 | 24.51                                   | 0.282        | 24.85                                    | 0.305        |
|                            |              |                    | BPSK   | Inner_Full         | 243        | 0            | 25.05                                   | 0.320 | 25.10                                   | 0.324        | 25.07                                    | 0.321        |
|                            |              |                    | QPSK   |                    | 243        | 0            | 25.01                                   | 0.317 | 25.08                                   | 0.322        | 25.05                                    | 0.320        |
|                            |              |                    | BPSK   | Outer_Full         | 1          | 0            | 24.00                                   | 0.251 | 23.92                                   | 0.247        | 24.44                                    | 0.278        |
|                            |              |                    | QPSK   |                    | 1          | 0            | 23.99                                   | 0.251 | 23.92                                   | 0.247        | 24.41                                    | 0.276        |
|                            |              |                    | BPSK   | Edge_1RB<br>Left   | 2          | 0            | 24.22                                   | 0.264 | 24.14                                   | 0.259        | 24.54                                    | 0.284        |
|                            |              |                    | QPSK   |                    | 2          | 0            | 24.21                                   | 0.264 | 24.12                                   | 0.258        | 24.51                                    | 0.282        |
|                            |              |                    | BPSK   | Edge_Full<br>Left  | 1          | 244          | 24.29                                   | 0.269 | 24.21                                   | 0.264        | 24.59                                    | 0.288        |
|                            |              |                    | QPSK   |                    | 1          | 244          | 24.29                                   | 0.269 | 24.21                                   | 0.264        | 24.59                                    | 0.288        |
|                            |              |                    | BPSK   | Edge_1RB<br>Right  | 2          | 243          | 23.62                                   | 0.230 | 23.55                                   | 0.226        | 23.96                                    | 0.249        |
|                            |              |                    | QPSK   |                    | 2          | 243          | 23.63                                   | 0.231 | 23.53                                   | 0.225        | 23.94                                    | 0.248        |
|                            |              |                    | BPSK   | Edge_Full<br>Right | 1          | 1            | 23.75                                   | 0.237 | 23.64                                   | 0.231        | 24.02                                    | 0.252        |
|                            |              |                    | QPSK   |                    | 1          | 1            | 23.76                                   | 0.238 | 23.66                                   | 0.232        | 24.02                                    | 0.252        |
|                            |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 23.83                                   | 0.242 | 23.76                                   | 0.238        | <b>24.09</b>                             | <b>0.256</b> |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 23.29                                   | 0.213 | 23.23                                   | 0.210        | <b>23.60</b>                             | <b>0.229</b> |

| NR Band 77-High Band (FCC) |              |                    |        |                    |            |              |                                         |       |                                         |       |                                          |       |
|----------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|-------|-----------------------------------------|-------|------------------------------------------|-------|
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |       |                                          |       |
|                            |              |                    |        |                    |            |              | Low Channel<br>650000<br>(3 750.00 MHz) |       | Mid Channel<br>656000<br>(3 840.00 MHz) |       | High Channel<br>662000<br>(3 930.00 MHz) |       |
|                            |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |       |                                          |       |
|                            |              |                    |        |                    |            |              | (dB m)                                  | (W)   | (dB m)                                  | (W)   | (dB m)                                   | (W)   |
| 100                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.52                                   | 0.356 | 25.58                                   | 0.361 | 25.61                                    | 0.364 |
|                            |              |                    | QPSK   |                    | 1          | 1            | 25.49                                   | 0.354 | 25.58                                   | 0.361 | 25.62                                    | 0.365 |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 24.26                                   | 0.267 | 24.34                                   | 0.272 | 24.45                                    | 0.279 |
|                            |              |                    | 64QAM  |                    | 1          | 1            | 23.03                                   | 0.201 | 23.04                                   | 0.201 | 23.11                                    | 0.205 |
|                            |              |                    | 256QAM |                    | 1          | 1            | 20.81                                   | 0.121 | 20.82                                   | 0.121 | 20.91                                    | 0.123 |
|                            |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 271          | 24.97                                   | 0.314 | 25.02                                   | 0.318 | 25.13                                    | 0.326 |
|                            |              |                    | QPSK   |                    | 1          | 271          | 24.93                                   | 0.311 | 24.99                                   | 0.316 | 25.10                                    | 0.324 |
|                            |              |                    | BPSK   | Inner_Full         | 135        | 67           | 25.39                                   | 0.346 | 25.47                                   | 0.352 | 25.57                                    | 0.361 |
|                            |              |                    | QPSK   |                    | 135        | 67           | 25.40                                   | 0.347 | 25.47                                   | 0.352 | 25.56                                    | 0.360 |
|                            |              |                    | BPSK   | Outer_Full         | 270        | 0            | 24.39                                   | 0.275 | 24.48                                   | 0.281 | 24.58                                    | 0.287 |
|                            |              |                    | QPSK   |                    | 270        | 0            | 24.39                                   | 0.275 | 24.49                                   | 0.281 | 24.58                                    | 0.287 |
|                            |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.47                                   | 0.280 | 24.49                                   | 0.281 | 24.58                                    | 0.287 |
|                            |              |                    | QPSK   |                    | 1          | 0            | 24.44                                   | 0.278 | 24.47                                   | 0.280 | 24.56                                    | 0.286 |
|                            |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.54                                   | 0.284 | 24.55                                   | 0.285 | 24.64                                    | 0.291 |
|                            |              |                    | QPSK   |                    | 2          | 0            | 24.54                                   | 0.284 | 24.56                                   | 0.286 | 24.64                                    | 0.291 |
|                            |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 272          | 23.91                                   | 0.246 | 23.95                                   | 0.248 | 24.06                                    | 0.255 |
|                            |              |                    | QPSK   |                    | 1          | 272          | 23.89                                   | 0.245 | 23.94                                   | 0.248 | 24.05                                    | 0.254 |
|                            |              |                    | BPSK   | Edge_Full<br>Right | 2          | 271          | 23.97                                   | 0.249 | 24.02                                   | 0.252 | 24.13                                    | 0.259 |
|                            |              |                    | QPSK   |                    | 2          | 271          | 23.98                                   | 0.250 | 24.03                                   | 0.253 | 24.14                                    | 0.259 |
|                            |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.16                                   | 0.261 | 24.17                                   | 0.261 | 24.25                                    | 0.266 |
|                            |              |                    | 16QAM  |                    | 1          | 1            | 23.56                                   | 0.227 | 23.57                                   | 0.228 | 23.67                                    | 0.233 |

| NR Band 78-Low Band (FCC) |              |            |        |                    |            |              |                          |        |                          |              |                          |              |
|---------------------------|--------------|------------|--------|--------------------|------------|--------------|--------------------------|--------|--------------------------|--------------|--------------------------|--------------|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              | 630668<br>(3 460.02 MHz) |        | 633334<br>(3 500.01 MHz) |              | 636000<br>(3 540.00 MHz) |              |
|                           |              |            |        |                    |            |              | Port 1 + Port 2          |        |                          |              |                          |              |
|                           |              |            |        | (dB m)             | (W)        | (dB m)       | (W)                      | (dB m) | (W)                      |              |                          |              |
| 20                        | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.15                    | 0.164  | 22.28                    | 0.169        | <u>22.34</u>             | <u>0.171</u> |
|                           |              |            | 16QAM  |                    | 1          | 1            | 21.90                    | 0.155  | <u>22.03</u>             | <u>0.160</u> | 21.86                    | 0.153        |
|                           |              |            | 64QAM  |                    | 1          | 1            | 20.08                    | 0.102  | 20.21                    | 0.105        | 20.24                    | 0.106        |
|                           |              |            | 256QAM |                    | 1          | 1            | 17.23                    | 0.053  | 17.39                    | 0.055        | 17.32                    | 0.054        |
|                           |              |            | QPSK   | Inner_1RB<br>Right | 1          | 49           | 22.12                    | 0.163  | 22.17                    | 0.165        | 22.27                    | 0.169        |
|                           |              |            | QPSK   | Outer_Full         | 51         | 0            | 20.65                    | 0.116  | 20.76                    | 0.119        | 20.66                    | 0.116        |
| NR Band 78-Low Band (FCC) |              |            |        |                    |            |              |                          |        |                          |              |                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              | 631000<br>(3 465.00 MHz) |        | 633334<br>(3 500.01 MHz) |              | 635666<br>(3 534.99 MHz) |              |
|                           |              |            |        |                    |            |              | Port 1 + Port 2          |        |                          |              |                          |              |
|                           |              |            |        | (dB m)             | (W)        | (dB m)       | (W)                      | (dB m) | (W)                      |              |                          |              |
| 30                        | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.16                    | 0.164  | 22.38                    | 0.173        | <u>22.50</u>             | <u>0.178</u> |
|                           |              |            | 16QAM  |                    | 1          | 1            | 21.90                    | 0.155  | <u>22.11</u>             | <u>0.163</u> | 22.05                    | 0.160        |
|                           |              |            | 64QAM  |                    | 1          | 1            | 20.11                    | 0.103  | 20.32                    | 0.108        | 20.46                    | 0.111        |
|                           |              |            | 256QAM |                    | 1          | 1            | 17.23                    | 0.053  | 17.49                    | 0.056        | 17.50                    | 0.056        |
|                           |              |            | QPSK   | Inner_1RB<br>Right | 1          | 76           | 22.12                    | 0.163  | 22.17                    | 0.165        | 22.41                    | 0.174        |
|                           |              |            | QPSK   | Outer_Full         | 78         | 0            | 20.49                    | 0.112  | 20.73                    | 0.118        | 20.82                    | 0.121        |
| NR Band 78-Low Band (FCC) |              |            |        |                    |            |              |                          |        |                          |              |                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              | 631334<br>(3 470.01 MHz) |        | 633334<br>(3 500.01 MHz) |              | 635332<br>(3 529.98 MHz) |              |
|                           |              |            |        |                    |            |              | Port 1 + Port 2          |        |                          |              |                          |              |
|                           |              |            |        | (dB m)             | (W)        | (dB m)       | (W)                      | (dB m) | (W)                      |              |                          |              |
| 40                        | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.17                    | 0.165  | 22.29                    | 0.169        | <u>22.36</u>             | <u>0.172</u> |
|                           |              |            | 16QAM  |                    | 1          | 1            | 21.84                    | 0.153  | <u>22.05</u>             | <u>0.160</u> | 21.90                    | 0.155        |
|                           |              |            | 64QAM  |                    | 1          | 1            | 20.02                    | 0.100  | 20.18                    | 0.104        | 20.27                    | 0.106        |
|                           |              |            | 256QAM |                    | 1          | 1            | 17.25                    | 0.053  | 17.35                    | 0.054        | 17.39                    | 0.055        |
|                           |              |            | QPSK   | Inner_1RB<br>Right | 1          | 104          | 22.15                    | 0.164  | 22.12                    | 0.163        | 22.11                    | 0.163        |
|                           |              |            | QPSK   | Outer_Full         | 106        | 0            | 20.78                    | 0.120  | 20.82                    | 0.121        | 20.81                    | 0.121        |
| NR Band 78-Low Band (FCC) |              |            |        |                    |            |              |                          |        |                          |              |                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              | 631668<br>(3 475.02 MHz) |        | 633334<br>(3 500.01 MHz) |              | 635000<br>(3 525.00 MHz) |              |
|                           |              |            |        |                    |            |              | Port 1 + Port 2          |        |                          |              |                          |              |
|                           |              |            |        | (dB m)             | (W)        | (dB m)       | (W)                      | (dB m) | (W)                      |              |                          |              |
| 50                        | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.28                    | 0.169  | 22.49                    | 0.177        | <u>22.58</u>             | <u>0.181</u> |
|                           |              |            | 16QAM  |                    | 1          | 1            | 22.01                    | 0.159  | <u>22.20</u>             | <u>0.166</u> | 21.96                    | 0.157        |
|                           |              |            | 64QAM  |                    | 1          | 1            | 20.16                    | 0.104  | 20.37                    | 0.109        | 20.39                    | 0.109        |
|                           |              |            | 256QAM |                    | 1          | 1            | 17.31                    | 0.054  | 17.56                    | 0.057        | 17.44                    | 0.055        |
|                           |              |            | QPSK   | Inner_1RB<br>Right | 1          | 131          | 22.15                    | 0.164  | 22.25                    | 0.168        | 22.18                    | 0.165        |
|                           |              |            | QPSK   | Outer_Full         | 133        | 0            | 20.72                    | 0.118  | 20.83                    | 0.121        | 20.74                    | 0.119        |
| NR Band 78-Low Band (FCC) |              |            |        |                    |            |              |                          |        |                          |              |                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              | 632000<br>(3 480.00 MHz) |        | 633334<br>(3 500.01 MHz) |              | 634666<br>(3 519.99 MHz) |              |
|                           |              |            |        |                    |            |              | Port 1 + Port 2          |        |                          |              |                          |              |
|                           |              |            |        | (dB m)             | (W)        | (dB m)       | (W)                      | (dB m) | (W)                      |              |                          |              |
| 60                        | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.12                    | 0.163  | 22.14                    | 0.164        | <u>22.31</u>             | <u>0.170</u> |
|                           |              |            | 16QAM  |                    | 1          | 1            | 21.95                    | 0.157  | 21.96                    | 0.157        | <u>22.09</u>             | <u>0.162</u> |
|                           |              |            | 64QAM  |                    | 1          | 1            | 20.02                    | 0.100  | 20.04                    | 0.101        | 20.11                    | 0.103        |
|                           |              |            | 256QAM |                    | 1          | 1            | 17.20                    | 0.052  | 17.27                    | 0.053        | 17.33                    | 0.054        |
|                           |              |            | QPSK   | Inner_1RB<br>Right | 1          | 160          | 21.99                    | 0.158  | 22.01                    | 0.159        | 21.99                    | 0.158        |
|                           |              |            | QPSK   | Outer_Full         | 162        | 0            | 20.63                    | 0.116  | 20.64                    | 0.116        | 20.62                    | 0.115        |

| NR Band 78-Low Band (FCC) |              |            |        |                    |            |              |                          |        |                          |              |                          |              |
|---------------------------|--------------|------------|--------|--------------------|------------|--------------|--------------------------|--------|--------------------------|--------------|--------------------------|--------------|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              | 632334<br>(3 485.01 MHz) |        | 633334<br>(3 500.01 MHz) |              | 634332<br>(3 514.98 MHz) |              |
|                           |              |            |        |                    |            |              | Port 1 + Port 2          |        |                          |              |                          |              |
|                           |              |            |        |                    |            | (dB m)       | (W)                      | (dB m) | (W)                      | (dB m)       | (W)                      |              |
| 70                        | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.20                    | 0.166  | 22.29                    | 0.169        | <b>22.37</b>             | <b>0.173</b> |
|                           |              |            | 16QAM  |                    | 1          | 1            | 21.97                    | 0.157  | 22.02                    | 0.159        | <b>22.14</b>             | <b>0.164</b> |
|                           |              |            | 64QAM  |                    | 1          | 1            | 20.05                    | 0.101  | 20.10                    | 0.102        | 20.24                    | 0.106        |
|                           |              |            | 256QAM | 1                  | 1          | 17.26        | 0.053                    | 17.28  | 0.053                    | 17.39        | 0.055                    |              |
|                           |              |            | QPSK   | Inner_1RB<br>Right | 1          | 187          | 21.97                    | 0.157  | 22.02                    | 0.159        | 22.09                    | 0.162        |
| QPSK                      | Outer_Full   | 189        | 0      | 20.57              | 0.114      | 20.67        | 0.117                    | 20.86  | 0.122                    |              |                          |              |
| NR Band 78-Low Band (FCC) |              |            |        |                    |            |              |                          |        |                          |              |                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              | 632668<br>(3 490.02 MHz) |        | 633334<br>(3 500.01 MHz) |              | 634000<br>(3 510.00 MHz) |              |
|                           |              |            |        |                    |            |              | Port 1 + Port 2          |        |                          |              |                          |              |
|                           |              |            |        |                    |            | (dB m)       | (W)                      | (dB m) | (W)                      | (dB m)       | (W)                      |              |
| 80                        | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.17                    | 0.165  | 22.22                    | 0.167        | <b>22.25</b>             | <b>0.168</b> |
|                           |              |            | 16QAM  |                    | 1          | 1            | 21.89                    | 0.155  | <b>21.98</b>             | <b>0.158</b> | 21.96                    | 0.157        |
|                           |              |            | 64QAM  |                    | 1          | 1            | 20.02                    | 0.100  | 20.10                    | 0.102        | 20.10                    | 0.102        |
|                           |              |            | 256QAM |                    | 1          | 1            | 17.24                    | 0.053  | 17.28                    | 0.053        | 17.32                    | 0.054        |
|                           |              |            | QPSK   | Inner_1RB<br>Right | 1          | 215          | 21.87                    | 0.154  | 21.98                    | 0.158        | 21.98                    | 0.158        |
|                           |              |            | QPSK   | Outer_Full         | 217        | 0            | 20.65                    | 0.116  | 20.72                    | 0.118        | 20.76                    | 0.119        |
| NR Band 78-Low Band (FCC) |              |            |        |                    |            |              |                          |        |                          |              |                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              | 633000<br>(3 495.00 MHz) |        | 633334<br>(3 500.01 MHz) |              | 633666<br>(3 504.99 MHz) |              |
|                           |              |            |        |                    |            |              | Port 1 + Port 2          |        |                          |              |                          |              |
|                           |              |            |        |                    |            | (dB m)       | (W)                      | (dB m) | (W)                      | (dB m)       | (W)                      |              |
| 90                        | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.22                    | 0.167  | 22.30                    | 0.170        | <b>22.35</b>             | <b>0.172</b> |
|                           |              |            | 16QAM  |                    | 1          | 1            | 22.06                    | 0.161  | 22.15                    | 0.164        | <b>22.22</b>             | <b>0.167</b> |
|                           |              |            | 64QAM  |                    | 1          | 1            | 20.16                    | 0.104  | 20.26                    | 0.106        | 20.35                    | 0.108        |
|                           |              |            | 256QAM |                    | 1          | 1            | 17.29                    | 0.054  | 17.30                    | 0.054        | 17.40                    | 0.055        |
|                           |              |            | QPSK   | Inner_1RB<br>Right | 1          | 243          | 21.95                    | 0.157  | 22.01                    | 0.159        | 22.01                    | 0.159        |
|                           |              |            | QPSK   | Outer_Full         | 245        | 0            | 20.59                    | 0.115  | 20.71                    | 0.118        | 20.79                    | 0.120        |
| NR Band 78-Low Band (FCC) |              |            |        |                    |            |              |                          |        |                          |              |                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              |                          |        | 633334<br>(3 500.01 MHz) |              |                          |              |
|                           |              |            |        |                    |            |              | Port 1 + Port 2          |        |                          |              |                          |              |
|                           |              |            |        |                    |            |              |                          | (dB m) | (W)                      |              |                          |              |
| 100                       | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | -                        | -      | <b>22.31</b>             | <b>0.170</b> | -                        | -            |
|                           |              |            | 16QAM  |                    | 1          | 1            | -                        | -      | <b>22.19</b>             | <b>0.166</b> | -                        | -            |
|                           |              |            | 64QAM  |                    | 1          | 1            | -                        | -      | 20.17                    | 0.104        | -                        | -            |
|                           |              |            | 256QAM |                    | 1          | 1            | -                        | -      | 17.30                    | 0.054        | -                        | -            |
|                           |              |            | QPSK   | Inner_1RB<br>Right | 1          | 271          | -                        | -      | 21.90                    | 0.155        | -                        | -            |
|                           |              |            | QPSK   | Outer_Full         | 273        | 0            | -                        | -      | 20.73                    | 0.118        | -                        | -            |

| NR Band 78-High Band (FCC) |              |            |        |                    |            |              |                          |              |                          |              |                          |       |
|----------------------------|--------------|------------|--------|--------------------|------------|--------------|--------------------------|--------------|--------------------------|--------------|--------------------------|-------|
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |              |                          |              |                          |       |
|                            |              |            |        |                    |            |              | 647334<br>(3 710.01 MHz) |              | 650000<br>(3 750.00 MHz) |              | 652666<br>(3 789.99 MHz) |       |
|                            |              |            |        |                    |            |              | Port 1 + Port 2          |              |                          |              |                          |       |
|                            |              |            |        |                    |            | (dB m)       | (W)                      | (dB m)       | (W)                      | (dB m)       | (W)                      |       |
| 20                         | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.04                    | 0.160        | 21.99                    | 0.158        | 21.98                    | 0.158 |
|                            |              |            | 16QAM  |                    | 1          | 1            | <b>21.76</b>             | <b>0.150</b> | 21.76                    | 0.150        | 21.60                    | 0.145 |
|                            |              |            | 64QAM  |                    | 1          | 1            | 19.93                    | 0.098        | 19.91                    | 0.098        | 19.82                    | 0.096 |
|                            |              |            | 256QAM |                    | 1          | 1            | 17.03                    | 0.050        | 16.99                    | 0.050        | 16.95                    | 0.050 |
|                            |              |            | QPSK   | Inner_1RB<br>Right | 1          | 49           | <b>22.09</b>             | <b>0.162</b> | 21.69                    | 0.148        | 21.66                    | 0.147 |
|                            |              |            | QPSK   | Outer_Full         | 51         | 0            | 20.64                    | 0.116        | 20.35                    | 0.108        | 20.45                    | 0.111 |
| NR Band 78-High Band (FCC) |              |            |        |                    |            |              |                          |              |                          |              |                          |       |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |              |                          |              |                          |       |
|                            |              |            |        |                    |            |              | 647668<br>(3 715.02 MHz) |              | 650000<br>(3 750.00 MHz) |              | 652332<br>(3 784.98 MHz) |       |
|                            |              |            |        |                    |            |              | Port 1 + Port 2          |              |                          |              |                          |       |
|                            |              |            |        |                    |            | (dB m)       | (W)                      | (dB m)       | (W)                      | (dB m)       | (W)                      |       |
| 30                         | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.06                    | 0.161        | <b>22.22</b>             | <b>0.167</b> | 21.96                    | 0.157 |
|                            |              |            | 16QAM  |                    | 1          | 1            | 21.75                    | 0.150        | <b>21.91</b>             | <b>0.155</b> | 21.76                    | 0.150 |
|                            |              |            | 64QAM  |                    | 1          | 1            | 20.00                    | 0.100        | <b>20.10</b>             | <b>0.102</b> | 19.96                    | 0.099 |
|                            |              |            | 256QAM |                    | 1          | 1            | 17.05                    | 0.051        | 17.23                    | 0.053        | 17.11                    | 0.051 |
|                            |              |            | QPSK   | Inner_1RB<br>Right | 1          | 76           | 22.09                    | 0.162        | 21.70                    | 0.148        | 21.67                    | 0.147 |
|                            |              |            | QPSK   | Outer_Full         | 78         | 0            | 20.55                    | 0.114        | 20.46                    | 0.111        | 20.52                    | 0.113 |
| NR Band 78-High Band (FCC) |              |            |        |                    |            |              |                          |              |                          |              |                          |       |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |              |                          |              |                          |       |
|                            |              |            |        |                    |            |              | 648000<br>(3 720.00 MHz) |              | 650000<br>(3 750.00 MHz) |              | 652000<br>(3 780.00 MHz) |       |
|                            |              |            |        |                    |            |              | Port 1 + Port 2          |              |                          |              |                          |       |
|                            |              |            |        |                    |            | (dB m)       | (W)                      | (dB m)       | (W)                      | (dB m)       | (W)                      |       |
| 40                         | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.07                    | 0.161        | <b>22.16</b>             | <b>0.164</b> | 21.92                    | 0.156 |
|                            |              |            | 16QAM  |                    | 1          | 1            | 21.82                    | 0.152        | <b>21.93</b>             | <b>0.156</b> | 21.59                    | 0.144 |
|                            |              |            | 64QAM  |                    | 1          | 1            | 19.96                    | 0.099        | <b>20.10</b>             | <b>0.102</b> | 19.81                    | 0.096 |
|                            |              |            | 256QAM |                    | 1          | 1            | 17.04                    | 0.051        | 17.18                    | 0.052        | 16.87                    | 0.049 |
|                            |              |            | QPSK   | Inner_1RB<br>Right | 1          | 104          | 21.94                    | 0.156        | 21.71                    | 0.148        | 21.81                    | 0.152 |
|                            |              |            | QPSK   | Outer_Full         | 106        | 0            | 20.70                    | 0.117        | 20.55                    | 0.114        | 20.47                    | 0.111 |
| NR Band 78-High Band (FCC) |              |            |        |                    |            |              |                          |              |                          |              |                          |       |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |              |                          |              |                          |       |
|                            |              |            |        |                    |            |              | 648334<br>(3 725.01 MHz) |              | 650000<br>(3 750.00 MHz) |              | 651666<br>(3 774.99 MHz) |       |
|                            |              |            |        |                    |            |              | Port 1 + Port 2          |              |                          |              |                          |       |
|                            |              |            |        |                    |            | (dB m)       | (W)                      | (dB m)       | (W)                      | (dB m)       | (W)                      |       |
| 50                         | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.18                    | 0.165        | <b>22.43</b>             | <b>0.175</b> | 22.23                    | 0.167 |
|                            |              |            | 16QAM  |                    | 1          | 1            | 21.92                    | 0.156        | <b>22.14</b>             | <b>0.164</b> | 21.81                    | 0.152 |
|                            |              |            | 64QAM  |                    | 1          | 1            | 20.07                    | 0.102        | <b>20.32</b>             | <b>0.108</b> | 20.11                    | 0.103 |
|                            |              |            | 256QAM |                    | 1          | 1            | 17.14                    | 0.052        | 17.44                    | 0.055        | 17.30                    | 0.054 |
|                            |              |            | QPSK   | Inner_1RB<br>Right | 1          | 131          | 21.97                    | 0.157        | 21.96                    | 0.157        | 21.78                    | 0.151 |
|                            |              |            | QPSK   | Outer_Full         | 133        | 0            | 20.64                    | 0.116        | 20.60                    | 0.115        | 20.63                    | 0.116 |
| NR Band 78-High Band (FCC) |              |            |        |                    |            |              |                          |              |                          |              |                          |       |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |              |                          |              |                          |       |
|                            |              |            |        |                    |            |              | 648668<br>(3 730.02 MHz) |              | 650000<br>(3 750.00 MHz) |              | 651332<br>(3 769.98 MHz) |       |
|                            |              |            |        |                    |            |              | Port 1 + Port 2          |              |                          |              |                          |       |
|                            |              |            |        |                    |            | (dB m)       | (W)                      | (dB m)       | (W)                      | (dB m)       | (W)                      |       |
| 60                         | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.08                    | 0.161        | <b>22.22</b>             | <b>0.167</b> | 22.05                    | 0.160 |
|                            |              |            | 16QAM  |                    | 1          | 1            | 21.84                    | 0.153        | <b>22.01</b>             | <b>0.159</b> | 21.83                    | 0.152 |
|                            |              |            | 64QAM  |                    | 1          | 1            | 19.88                    | 0.097        | <b>20.07</b>             | <b>0.102</b> | 19.89                    | 0.097 |
|                            |              |            | 256QAM |                    | 1          | 1            | 17.00                    | 0.050        | 17.16                    | 0.052        | 17.00                    | 0.050 |
|                            |              |            | QPSK   | Inner_1RB<br>Right | 1          | 160          | 21.65                    | 0.146        | 21.83                    | 0.152        | 21.81                    | 0.152 |
|                            |              |            | QPSK   | Outer_Full         | 162        | 0            | 20.46                    | 0.111        | 20.41                    | 0.110        | 20.34                    | 0.108 |

| NR Band 78-High Band (FCC) |              |            |        |                    |            |              |                          |       |                          |              |                          |              |
|----------------------------|--------------|------------|--------|--------------------|------------|--------------|--------------------------|-------|--------------------------|--------------|--------------------------|--------------|
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |       |                          |              |                          |              |
|                            |              |            |        |                    |            |              | 649000<br>(3 735.00 MHz) |       | 650000<br>(3 750.00 MHz) |              | 651000<br>(3 765.00 MHz) |              |
|                            |              |            |        |                    |            |              | Port 1 + Port 2          |       |                          |              |                          |              |
|                            |              | (dB m)     | (W)    | (dB m)             | (W)        | (dB m)       | (W)                      |       |                          |              |                          |              |
| 70                         | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.08                    | 0.161 | 22.25                    | 0.168        | <u>22.26</u>             | <u>0.168</u> |
|                            |              |            | 16QAM  |                    | 1          | 1            | 21.81                    | 0.152 | 21.99                    | 0.158        | <u>22.00</u>             | <u>0.158</u> |
|                            |              |            | 64QAM  |                    | 1          | 1            | 19.93                    | 0.098 | 20.04                    | 0.101        | 20.06                    | 0.101        |
|                            |              |            | 256QAM |                    | 1          | 1            | 16.97                    | 0.050 | 17.17                    | 0.052        | 17.17                    | 0.052        |
|                            |              |            | QPSK   | Inner_1RB<br>Right | 1          | 187          | 21.69                    | 0.148 | 21.81                    | 0.152        | 21.89                    | 0.155        |
| QPSK                       | Outer_Full   | 189        | 0      | 20.47              | 0.111      | 20.46        | 0.111                    | 20.46 | 0.111                    |              |                          |              |
| NR Band 78-High Band (FCC) |              |            |        |                    |            |              |                          |       |                          |              |                          |              |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |       |                          |              |                          |              |
|                            |              |            |        |                    |            |              | 649334<br>(3 740.01 MHz) |       | 650000<br>(3 750.00 MHz) |              | 65066<br>(3 759.99 MHz)  |              |
|                            |              |            |        |                    |            |              | Port 1 + Port 2          |       |                          |              |                          |              |
|                            |              | (dB m)     | (W)    | (dB m)             | (W)        | (dB m)       | (W)                      |       |                          |              |                          |              |
| 80                         | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.21                    | 0.166 | 22.23                    | 0.167        | <u>22.28</u>             | <u>0.169</u> |
|                            |              |            | 16QAM  |                    | 1          | 1            | 21.92                    | 0.156 | 22.01                    | 0.159        | <u>22.05</u>             | <u>0.160</u> |
|                            |              |            | 64QAM  |                    | 1          | 1            | 20.05                    | 0.101 | 20.13                    | 0.103        | 20.16                    | 0.104        |
|                            |              |            | 256QAM |                    | 1          | 1            | 17.13                    | 0.052 | 17.17                    | 0.052        | 17.23                    | 0.053        |
|                            |              |            | QPSK   | Inner_1RB<br>Right | 1          | 215          | 21.71                    | 0.148 | 21.83                    | 0.152        | 21.87                    | 0.154        |
| QPSK                       | Outer_Full   | 217        | 0      | 20.54              | 0.113      | 20.50        | 0.112                    | 20.48 | 0.112                    |              |                          |              |
| NR Band 78-High Band (FCC) |              |            |        |                    |            |              |                          |       |                          |              |                          |              |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |       |                          |              |                          |              |
|                            |              |            |        |                    |            |              | 649668<br>(3 745.02 MHz) |       | 650000<br>(3 750.00 MHz) |              | 650332<br>(3 754.98 MHz) |              |
|                            |              |            |        |                    |            |              | Port 1 + Port 2          |       |                          |              |                          |              |
|                            |              | (dB m)     | (W)    | (dB m)             | (W)        | (dB m)       | (W)                      |       |                          |              |                          |              |
| 90                         | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 22.17                    | 0.165 | 22.25                    | 0.168        | <u>22.37</u>             | <u>0.173</u> |
|                            |              |            | 16QAM  |                    | 1          | 1            | 22.05                    | 0.160 | 22.16                    | 0.164        | <u>22.25</u>             | <u>0.168</u> |
|                            |              |            | 64QAM  |                    | 1          | 1            | 20.13                    | 0.103 | 20.23                    | 0.105        | 20.30                    | 0.107        |
|                            |              |            | 256QAM |                    | 1          | 1            | 17.06                    | 0.051 | 17.15                    | 0.052        | 17.27                    | 0.053        |
|                            |              |            | QPSK   | Inner_1RB<br>Right | 1          | 243          | 21.88                    | 0.154 | 21.92                    | 0.156        | 21.80                    | 0.151        |
| QPSK                       | Outer_Full   | 245        | 0      | 20.42              | 0.110      | 20.47        | 0.111                    | 20.52 | 0.113                    |              |                          |              |
| NR Band 78-High Band (FCC) |              |            |        |                    |            |              |                          |       |                          |              |                          |              |
| BW<br>(MHz)                | SCS<br>(kHz) | Modulation |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power   |       |                          |              |                          |              |
|                            |              |            |        |                    |            |              |                          |       | 650000<br>(3 750.00 MHz) |              |                          |              |
|                            |              |            |        |                    |            |              | Port 1 + Port 2          |       |                          |              |                          |              |
|                            |              |            |        | (dB m)             | (W)        |              |                          |       |                          |              |                          |              |
| 100                        | 30           | CP<br>OFDM | QPSK   | Inner_1RB<br>Left  | 1          | 1            | -                        | -     | <u>22.26</u>             | <u>0.168</u> | -                        | -            |
|                            |              |            | 16QAM  |                    | 1          | 1            | -                        | -     | <u>22.07</u>             | <u>0.161</u> | -                        | -            |
|                            |              |            | 64QAM  |                    | 1          | 1            | -                        | -     | 20.08                    | 0.102        | -                        | -            |
|                            |              |            | 256QAM |                    | 1          | 1            | -                        | -     | 17.13                    | 0.052        | -                        | -            |
|                            |              |            | QPSK   | Inner_1RB<br>Right | 1          | 271          | -                        | -     | 21.78                    | 0.151        | -                        | -            |
| QPSK                       | Outer_Full   | 273        | 0      | -                  | -          | 20.48        | 0.112                    | -     | -                        |              |                          |              |

| NR Band 77-Low Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |       |
|--------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|--------------|------------------------------------------|-------|
| BW<br>(MHz)              | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |       |
|                          |              |                    |        |                    |            |              | Low Channel<br>630668<br>(3 460.02 MHz) |              | Mid Channel<br>645000<br>(3 675.00 MHz) |              | High Channel<br>659332<br>(3 889.98 MHz) |       |
|                          |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |       |
|                          |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)   |
| 20                       | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.59                                   | 0.362        | 25.59                                   | 0.362        | 25.18                                    | 0.330 |
|                          |              |                    | QPSK   |                    | 1          | 1            | 25.58                                   | 0.361        | 25.57                                   | 0.361        | 25.17                                    | 0.329 |
|                          |              |                    | 16QAM  |                    | 1          | 1            | <b>24.51</b>                            | <b>0.282</b> | 24.51                                   | 0.282        | 24.06                                    | 0.255 |
|                          |              |                    | 64QAM  |                    | 1          | 1            | 23.10                                   | 0.204        | 23.09                                   | 0.204        | 22.67                                    | 0.185 |
|                          |              |                    | 256QAM |                    | 1          | 1            | 20.87                                   | 0.122        | 20.87                                   | 0.122        | 20.57                                    | 0.114 |
|                          |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 49           | 25.48                                   | 0.353        | 25.48                                   | 0.353        | 24.65                                    | 0.292 |
|                          |              |                    | QPSK   |                    | 1          | 49           | 25.42                                   | 0.348        | 25.42                                   | 0.348        | 24.64                                    | 0.291 |
|                          |              |                    | BPSK   | Inner_Full         | 25         | 12           | <b>25.62</b>                            | <b>0.365</b> | 25.62                                   | 0.365        | 24.92                                    | 0.310 |
|                          |              |                    | QPSK   |                    | 25         | 12           | <b>25.63</b>                            | <b>0.366</b> | 25.62                                   | 0.365        | 24.83                                    | 0.304 |
|                          |              |                    | BPSK   | Outer_Full         | 50         | 0            | 24.62                                   | 0.290        | 24.62                                   | 0.290        | 24.17                                    | 0.261 |
|                          |              |                    | QPSK   |                    | 50         | 0            | 24.60                                   | 0.288        | 24.60                                   | 0.288        | 24.02                                    | 0.252 |
|                          |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.55                                   | 0.285        | 24.54                                   | 0.284        | 24.12                                    | 0.258 |
|                          |              |                    | QPSK   |                    | 1          | 0            | 24.52                                   | 0.283        | 24.52                                   | 0.283        | 24.11                                    | 0.258 |
|                          |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.63                                   | 0.290        | 24.62                                   | 0.290        | 24.19                                    | 0.262 |
|                          |              |                    | QPSK   |                    | 2          | 0            | 24.60                                   | 0.288        | 24.59                                   | 0.288        | 24.20                                    | 0.263 |
|                          |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 50           | 24.39                                   | 0.275        | 24.38                                   | 0.274        | 23.93                                    | 0.247 |
|                          |              |                    | QPSK   |                    | 1          | 50           | 24.37                                   | 0.274        | 24.36                                   | 0.273        | 23.84                                    | 0.242 |
|                          |              |                    | BPSK   | Edge_Full<br>Right | 2          | 49           | 24.46                                   | 0.279        | 24.45                                   | 0.279        | 23.91                                    | 0.246 |
|                          |              |                    | QPSK   |                    | 2          | 49           | 24.44                                   | 0.278        | 24.43                                   | 0.277        | 24.02                                    | 0.252 |
|                          |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>24.13</b>                            | <b>0.259</b> | 24.13                                   | 0.259        | 23.71                                    | 0.235 |
|                          |              |                    | 16QAM  |                    | 1          | 1            | <b>23.59</b>                            | <b>0.229</b> | 23.59                                   | 0.229        | 23.08                                    | 0.203 |
| NR Band 77-Low Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |       |
| BW<br>(MHz)              | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |       |
|                          |              |                    |        |                    |            |              | Low Channel<br>631000<br>(3 465.00 MHz) |              | Mid Channel<br>645000<br>(3 675.00 MHz) |              | High Channel<br>659000<br>(3 885.00 MHz) |       |
|                          |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |       |
|                          |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)   |
| 30                       | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>25.66</b>                            | <b>0.368</b> | 25.60                                   | 0.363        | 25.26                                    | 0.336 |
|                          |              |                    | QPSK   |                    | 1          | 1            | <b>25.67</b>                            | <b>0.369</b> | 25.59                                   | 0.362        | 25.25                                    | 0.335 |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 24.40                                   | 0.275        | <b>24.48</b>                            | <b>0.281</b> | 24.09                                    | 0.256 |
|                          |              |                    | 64QAM  |                    | 1          | 1            | 23.16                                   | 0.207        | 23.14                                   | 0.206        | 22.84                                    | 0.192 |
|                          |              |                    | 256QAM |                    | 1          | 1            | 20.91                                   | 0.123        | 20.98                                   | 0.125        | 20.71                                    | 0.118 |
|                          |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 76           | 25.43                                   | 0.349        | 25.43                                   | 0.349        | 25.13                                    | 0.326 |
|                          |              |                    | QPSK   |                    | 1          | 76           | 25.45                                   | 0.351        | 25.41                                   | 0.348        | 25.12                                    | 0.325 |
|                          |              |                    | BPSK   | Inner_Full         | 36         | 18           | 25.64                                   | 0.366        | 25.50                                   | 0.355        | 25.09                                    | 0.323 |
|                          |              |                    | QPSK   |                    | 36         | 18           | 25.63                                   | 0.366        | 25.48                                   | 0.353        | 25.02                                    | 0.318 |
|                          |              |                    | BPSK   | Outer_Full         | 75         | 0            | 24.59                                   | 0.288        | 24.52                                   | 0.283        | 24.15                                    | 0.260 |
|                          |              |                    | QPSK   |                    | 75         | 0            | 24.64                                   | 0.291        | 24.55                                   | 0.285        | 24.22                                    | 0.264 |
|                          |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.53                                   | 0.284        | 24.60                                   | 0.288        | 24.27                                    | 0.267 |
|                          |              |                    | QPSK   |                    | 1          | 0            | 24.59                                   | 0.288        | 24.58                                   | 0.287        | 24.27                                    | 0.267 |
|                          |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.62                                   | 0.290        | 24.61                                   | 0.289        | 24.23                                    | 0.265 |
|                          |              |                    | QPSK   |                    | 2          | 0            | 24.62                                   | 0.290        | 24.60                                   | 0.288        | 24.22                                    | 0.264 |
|                          |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 77           | 24.42                                   | 0.277        | 24.40                                   | 0.275        | 24.10                                    | 0.257 |
|                          |              |                    | QPSK   |                    | 1          | 77           | 24.39                                   | 0.275        | 24.39                                   | 0.275        | 24.11                                    | 0.258 |
|                          |              |                    | BPSK   | Edge_Full<br>Right | 2          | 76           | 24.47                                   | 0.280        | 24.41                                   | 0.276        | 24.17                                    | 0.261 |
|                          |              |                    | QPSK   |                    | 2          | 76           | 24.47                                   | 0.280        | 24.46                                   | 0.279        | 24.17                                    | 0.261 |
|                          |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.12                                   | 0.258        | <b>24.16</b>                            | <b>0.261</b> | 23.80                                    | 0.240 |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 23.54                                   | 0.226        | <b>23.63</b>                            | <b>0.231</b> | 23.29                                    | 0.213 |

| NR Band 77-Low Band (IC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
|--------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|-------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)              | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | Low Channel<br>631334<br>(3 470.01 MHz) |       | Mid Channel<br>645000<br>(3 675.00 MHz) |              | High Channel<br>659000<br>(3 879.99 MHz) |              |
|                          |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | (dB m)                                  | (W)   | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 40                       | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.55                                   | 0.359 | 25.73                                   | 0.374        | 25.50                                    | 0.355        |
|                          |              |                    | QPSK   |                    | 1          | 1            | 25.59                                   | 0.362 | 25.75                                   | 0.376        | 25.51                                    | 0.356        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 24.29                                   | 0.269 | <b>24.51</b>                            | <b>0.282</b> | 24.35                                    | 0.272        |
|                          |              |                    | 64QAM  |                    | 1          | 1            | 23.08                                   | 0.203 | 23.25                                   | 0.211        | 22.96                                    | 0.198        |
|                          |              |                    | 256QAM |                    | 1          | 1            | 20.87                                   | 0.122 | 21.03                                   | 0.127        | 20.77                                    | 0.119        |
|                          |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 104          | 25.48                                   | 0.353 | 25.53                                   | 0.357        | 25.29                                    | 0.338        |
|                          |              |                    | QPSK   |                    | 1          | 104          | 25.49                                   | 0.354 | 25.51                                   | 0.356        | 25.27                                    | 0.337        |
|                          |              |                    | BPSK   | Inner_Full         | 50         | 25           | 25.67                                   | 0.369 | <b>25.81</b>                            | <b>0.381</b> | 24.81                                    | 0.303        |
|                          |              |                    | QPSK   |                    | 50         | 25           | 25.72                                   | 0.373 | <b>25.83</b>                            | <b>0.383</b> | 24.92                                    | 0.310        |
|                          |              |                    | BPSK   | Outer_Full         | 100        | 0            | 24.70                                   | 0.295 | 24.79                                   | 0.301        | 24.23                                    | 0.265        |
|                          |              |                    | QPSK   |                    | 100        | 0            | 24.60                                   | 0.288 | 24.76                                   | 0.299        | 24.41                                    | 0.276        |
|                          |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.52                                   | 0.283 | 24.70                                   | 0.295        | 24.44                                    | 0.278        |
|                          |              |                    | QPSK   |                    | 1          | 0            | 24.52                                   | 0.283 | 24.67                                   | 0.293        | 24.43                                    | 0.277        |
|                          |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.60                                   | 0.288 | 24.77                                   | 0.300        | 24.49                                    | 0.281        |
|                          |              |                    | QPSK   |                    | 2          | 0            | 24.59                                   | 0.288 | 24.75                                   | 0.299        | 24.49                                    | 0.281        |
|                          |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 105          | 24.38                                   | 0.274 | 24.43                                   | 0.277        | 24.20                                    | 0.263        |
|                          |              |                    | QPSK   |                    | 1          | 105          | 24.37                                   | 0.274 | 24.47                                   | 0.280        | 24.20                                    | 0.263        |
|                          |              |                    | BPSK   | Edge_Full<br>Right | 2          | 104          | 24.44                                   | 0.278 | 24.49                                   | 0.281        | 24.31                                    | 0.270        |
|                          |              |                    | QPSK   |                    | 2          | 104          | 24.44                                   | 0.278 | 24.52                                   | 0.283        | 24.29                                    | 0.269        |
|                          |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.14                                   | 0.259 | <b>24.30</b>                            | <b>0.269</b> | 24.05                                    | 0.254        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 23.56                                   | 0.227 | <b>23.73</b>                            | <b>0.236</b> | 23.51                                    | 0.224        |
| NR Band 77-Low Band (IC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
| BW<br>(MHz)              | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | Low Channel<br>631668<br>(3 475.02 MHz) |       | Mid Channel<br>645000<br>(3 675.00 MHz) |              | High Channel<br>658332<br>(3 874.98 MHz) |              |
|                          |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | (dB m)                                  | (W)   | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 50                       | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.70                                   | 0.372 | <b>25.97</b>                            | <b>0.395</b> | 25.77                                    | 0.378        |
|                          |              |                    | QPSK   |                    | 1          | 1            | 25.73                                   | 0.374 | <b>25.98</b>                            | <b>0.396</b> | 25.74                                    | 0.375        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 24.61                                   | 0.289 | <b>24.78</b>                            | <b>0.301</b> | 24.58                                    | 0.287        |
|                          |              |                    | 64QAM  |                    | 1          | 1            | 23.20                                   | 0.209 | 23.39                                   | 0.218        | 23.37                                    | 0.217        |
|                          |              |                    | 256QAM |                    | 1          | 1            | 20.99                                   | 0.126 | 21.18                                   | 0.131        | 21.13                                    | 0.130        |
|                          |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 131          | 25.50                                   | 0.355 | 25.60                                   | 0.363        | 25.35                                    | 0.343        |
|                          |              |                    | QPSK   |                    | 1          | 131          | 25.54                                   | 0.358 | 25.63                                   | 0.366        | 25.23                                    | 0.333        |
|                          |              |                    | BPSK   | Inner_Full         | 64         | 32           | 25.83                                   | 0.383 | 25.81                                   | 0.381        | 25.26                                    | 0.336        |
|                          |              |                    | QPSK   |                    | 64         | 32           | 25.85                                   | 0.385 | 25.84                                   | 0.384        | 25.26                                    | 0.336        |
|                          |              |                    | BPSK   | Outer_Full         | 128        | 0            | 24.78                                   | 0.301 | 24.90                                   | 0.309        | 24.66                                    | 0.292        |
|                          |              |                    | QPSK   |                    | 128        | 0            | 24.72                                   | 0.296 | 24.87                                   | 0.307        | 24.65                                    | 0.292        |
|                          |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.67                                   | 0.293 | 24.85                                   | 0.305        | 24.80                                    | 0.302        |
|                          |              |                    | QPSK   |                    | 1          | 0            | 24.64                                   | 0.291 | 24.83                                   | 0.304        | 24.80                                    | 0.302        |
|                          |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.73                                   | 0.297 | 24.92                                   | 0.310        | 24.90                                    | 0.309        |
|                          |              |                    | QPSK   |                    | 2          | 0            | 24.73                                   | 0.297 | 24.91                                   | 0.310        | 24.90                                    | 0.309        |
|                          |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 132          | 24.49                                   | 0.281 | 24.55                                   | 0.285        | 24.34                                    | 0.272        |
|                          |              |                    | QPSK   |                    | 1          | 132          | 24.48                                   | 0.281 | 24.54                                   | 0.284        | 24.32                                    | 0.270        |
|                          |              |                    | BPSK   | Edge_Full<br>Right | 2          | 131          | 24.55                                   | 0.285 | 24.62                                   | 0.290        | 24.41                                    | 0.276        |
|                          |              |                    | QPSK   |                    | 2          | 131          | 24.55                                   | 0.285 | 24.64                                   | 0.291        | 24.41                                    | 0.276        |
|                          |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.30                                   | 0.269 | <b>24.49</b>                            | <b>0.281</b> | 24.24                                    | 0.265        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 23.73                                   | 0.236 | 23.86                                   | 0.243        | <b>23.87</b>                             | <b>0.244</b> |

| NR Band 77-Low Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
|--------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)              | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | Low Channel<br>632000<br>(3 480.00 MHz) |              | Mid Channel<br>645000<br>(3 675.00 MHz) |              | High Channel<br>658000<br>(3 870.00 MHz) |              |
|                          |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                          |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |              |                                         |              |                                          |              |
| 60                       | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.51                                   | 0.356        | 25.48                                   | 0.353        | 25.52                                    | 0.356        |
|                          |              |                    | QPSK   |                    | 1          | 1            | 25.49                                   | 0.354        | 25.46                                   | 0.352        | 25.50                                    | 0.355        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 24.44                                   | 0.278        | <b>24.51</b>                            | <b>0.282</b> | 24.45                                    | 0.279        |
|                          |              |                    | 64QAM  |                    | 1          | 1            | 23.05                                   | 0.202        | 23.11                                   | 0.205        | 23.06                                    | 0.202        |
|                          |              |                    | 256QAM |                    | 1          | 1            | 20.82                                   | 0.121        | 20.95                                   | 0.124        | 20.83                                    | 0.121        |
|                          |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 160          | 25.22                                   | 0.333        | 25.25                                   | 0.335        | 25.23                                    | 0.333        |
|                          |              |                    | QPSK   |                    | 1          | 160          | 25.20                                   | 0.331        | 25.24                                   | 0.334        | 25.21                                    | 0.332        |
|                          |              |                    | BPSK   | Inner_Full         | 81         | 40           | 25.43                                   | 0.349        | <b>25.61</b>                            | <b>0.364</b> | 25.44                                    | 0.350        |
|                          |              |                    | QPSK   |                    | 81         | 40           | 25.43                                   | 0.349        | <b>25.62</b>                            | <b>0.365</b> | 25.44                                    | 0.350        |
|                          |              |                    | BPSK   | Outer_Full         | 162        | 0            | 24.51                                   | 0.282        | 24.60                                   | 0.288        | 24.52                                    | 0.283        |
|                          |              |                    | QPSK   |                    | 162        | 0            | 24.49                                   | 0.281        | 24.62                                   | 0.290        | 24.50                                    | 0.282        |
|                          |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.50                                   | 0.282        | 24.56                                   | 0.286        | 24.51                                    | 0.282        |
|                          |              |                    | QPSK   |                    | 1          | 0            | 24.51                                   | 0.282        | 24.54                                   | 0.284        | 24.52                                    | 0.283        |
|                          |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.59                                   | 0.288        | 24.61                                   | 0.289        | 24.60                                    | 0.288        |
|                          |              |                    | QPSK   |                    | 2          | 0            | 24.60                                   | 0.288        | 24.60                                   | 0.288        | 24.61                                    | 0.289        |
|                          |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 161          | 24.16                                   | 0.261        | 24.19                                   | 0.262        | 24.17                                    | 0.261        |
|                          |              |                    | QPSK   |                    | 1          | 161          | 24.14                                   | 0.259        | 24.17                                   | 0.261        | 24.15                                    | 0.260        |
|                          |              |                    | BPSK   | Edge_Full<br>Right | 2          | 160          | 24.22                                   | 0.264        | 24.27                                   | 0.267        | 24.23                                    | 0.265        |
|                          |              |                    | QPSK   |                    | 2          | 160          | 24.22                                   | 0.264        | 24.24                                   | 0.265        | 24.23                                    | 0.265        |
|                          |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.15                                   | 0.260        | <b>24.20</b>                            | <b>0.263</b> | 24.16                                    | 0.261        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 23.67                                   | 0.233        | <b>23.73</b>                            | <b>0.236</b> | 23.68                                    | 0.233        |
| NR Band 77-Low Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
| BW<br>(MHz)              | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | Low Channel<br>632334<br>(3 485.01 MHz) |              | Mid Channel<br>645000<br>(3 675.00 MHz) |              | High Channel<br>657666<br>(3 864.99 MHz) |              |
|                          |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                          |              | (dB m)             | (W)    | (dB m)             | (W)        | (dB m)       | (W)                                     |              |                                         |              |                                          |              |
| 70                       | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.61                                   | 0.364        | 25.52                                   | 0.356        | 25.53                                    | 0.357        |
|                          |              |                    | QPSK   |                    | 1          | 1            | 25.56                                   | 0.360        | 25.48                                   | 0.353        | 25.50                                    | 0.355        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 24.32                                   | 0.270        | 24.44                                   | 0.278        | <b>24.45</b>                             | <b>0.279</b> |
|                          |              |                    | 64QAM  |                    | 1          | 1            | 23.11                                   | 0.205        | 23.07                                   | 0.203        | 23.08                                    | 0.203        |
|                          |              |                    | 256QAM |                    | 1          | 1            | 20.90                                   | 0.123        | 20.89                                   | 0.123        | 20.91                                    | 0.123        |
|                          |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 187          | 25.32                                   | 0.340        | 25.17                                   | 0.329        | 25.18                                    | 0.330        |
|                          |              |                    | QPSK   |                    | 1          | 187          | 25.30                                   | 0.339        | 25.18                                   | 0.330        | 25.19                                    | 0.330        |
|                          |              |                    | BPSK   | Inner_Full         | 90         | 45           | 25.63                                   | 0.366        | <b>25.64</b>                            | <b>0.366</b> | 25.64                                    | 0.366        |
|                          |              |                    | QPSK   |                    | 90         | 45           | <b>25.65</b>                            | <b>0.367</b> | 25.64                                   | 0.366        | 25.64                                    | 0.366        |
|                          |              |                    | BPSK   | Outer_Full         | 180        | 0            | 24.62                                   | 0.290        | 24.59                                   | 0.288        | 24.60                                    | 0.288        |
|                          |              |                    | QPSK   |                    | 180        | 0            | 24.62                                   | 0.290        | 24.60                                   | 0.288        | 24.61                                    | 0.289        |
|                          |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.54                                   | 0.284        | 24.52                                   | 0.283        | 24.54                                    | 0.284        |
|                          |              |                    | QPSK   |                    | 1          | 0            | 24.53                                   | 0.284        | 24.54                                   | 0.284        | 24.55                                    | 0.285        |
|                          |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.63                                   | 0.290        | 24.59                                   | 0.288        | 24.61                                    | 0.289        |
|                          |              |                    | QPSK   |                    | 2          | 0            | 24.65                                   | 0.292        | 24.59                                   | 0.288        | 24.61                                    | 0.289        |
|                          |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 188          | 24.23                                   | 0.265        | 24.05                                   | 0.254        | 24.06                                    | 0.255        |
|                          |              |                    | QPSK   |                    | 1          | 188          | 24.21                                   | 0.264        | 24.10                                   | 0.257        | 24.11                                    | 0.258        |
|                          |              |                    | BPSK   | Edge_Full<br>Right | 2          | 187          | 24.34                                   | 0.272        | 24.13                                   | 0.259        | 24.14                                    | 0.259        |
|                          |              |                    | QPSK   |                    | 2          | 187          | 24.35                                   | 0.272        | 24.12                                   | 0.258        | 24.14                                    | 0.259        |
|                          |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.21                                   | 0.264        | 24.20                                   | 0.263        | <b>24.22</b>                             | <b>0.264</b> |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 23.60                                   | 0.229        | 23.61                                   | 0.230        | <b>23.62</b>                             | <b>0.230</b> |

| NR Band 77-Low Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
|--------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)              | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | Low Channel<br>632668<br>(3 490.02 MHz) |              | Mid Channel<br>645000<br>(3 675.00 MHz) |              | High Channel<br>657332<br>(3 859.98 MHz) |              |
|                          |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 80                       | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.57                                   | 0.361        | 25.49                                   | 0.354        | 25.51                                    | 0.356        |
|                          |              |                    | QPSK   |                    | 1          | 1            | 25.60                                   | 0.363        | 25.45                                   | 0.351        | 25.46                                    | 0.352        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 24.34                                   | 0.272        | 24.34                                   | 0.272        | <b>24.35</b>                             | <b>0.272</b> |
|                          |              |                    | 64QAM  |                    | 1          | 1            | 23.09                                   | 0.204        | 23.10                                   | 0.204        | 23.12                                    | 0.205        |
|                          |              |                    | 256QAM |                    | 1          | 1            | 20.89                                   | 0.123        | 20.90                                   | 0.123        | 20.92                                    | 0.124        |
|                          |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 215          | 25.24                                   | 0.334        | 25.08                                   | 0.322        | 25.09                                    | 0.323        |
|                          |              |                    | QPSK   |                    | 1          | 215          | 25.22                                   | 0.333        | 25.08                                   | 0.322        | 25.09                                    | 0.323        |
|                          |              |                    | BPSK   | Inner_Full         | 108        | 54           | <b>25.76</b>                            | <b>0.377</b> | 25.66                                   | 0.368        | 25.67                                    | 0.369        |
|                          |              |                    | QPSK   |                    | 108        | 54           | <b>25.78</b>                            | <b>0.378</b> | 25.65                                   | 0.367        | 25.66                                    | 0.368        |
|                          |              |                    | BPSK   | Outer_Full         | 216        | 0            | 24.67                                   | 0.293        | 24.54                                   | 0.284        | 24.56                                    | 0.286        |
|                          |              |                    | QPSK   |                    | 216        | 0            | 24.69                                   | 0.294        | 24.56                                   | 0.286        | 24.58                                    | 0.287        |
|                          |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.59                                   | 0.288        | 24.58                                   | 0.287        | 24.60                                    | 0.288        |
|                          |              |                    | QPSK   |                    | 1          | 0            | 24.58                                   | 0.287        | 24.57                                   | 0.286        | 24.58                                    | 0.287        |
|                          |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.66                                   | 0.292        | 24.65                                   | 0.292        | 24.66                                    | 0.292        |
|                          |              |                    | QPSK   |                    | 2          | 0            | 24.66                                   | 0.292        | 24.64                                   | 0.291        | 24.66                                    | 0.292        |
|                          |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 216          | 24.17                                   | 0.261        | 24.02                                   | 0.252        | 24.03                                    | 0.253        |
|                          |              |                    | QPSK   |                    | 1          | 216          | 24.15                                   | 0.260        | 24.00                                   | 0.251        | 24.01                                    | 0.252        |
|                          |              |                    | BPSK   | Edge_Full<br>Right | 2          | 215          | 24.29                                   | 0.269        | 24.10                                   | 0.257        | 24.11                                    | 0.258        |
|                          |              |                    | QPSK   |                    | 2          | 215          | 24.29                                   | 0.269        | 24.12                                   | 0.258        | 24.13                                    | 0.259        |
|                          |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>24.23</b>                            | <b>0.265</b> | 24.20                                   | 0.263        | 24.22                                    | 0.264        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 23.63                                   | 0.231        | 23.63                                   | 0.231        | <b>23.65</b>                             | <b>0.232</b> |
| NR Band 77-Low Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
| BW<br>(MHz)              | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | Low Channel<br>633000<br>(3 495.00 MHz) |              | Mid Channel<br>645000<br>(3 675.00 MHz) |              | High Channel<br>657000<br>(3 855.00 MHz) |              |
|                          |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                          |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 90                       | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>25.67</b>                            | <b>0.369</b> | 25.61                                   | 0.364        | 25.48                                    | 0.353        |
|                          |              |                    | QPSK   |                    | 1          | 1            | <b>25.68</b>                            | <b>0.370</b> | 25.57                                   | 0.361        | 25.43                                    | 0.349        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 24.54                                   | 0.284        | <b>24.64</b>                            | <b>0.291</b> | 24.32                                    | 0.270        |
|                          |              |                    | 64QAM  |                    | 1          | 1            | 23.23                                   | 0.210        | 23.29                                   | 0.213        | 23.07                                    | 0.203        |
|                          |              |                    | 256QAM |                    | 1          | 1            | 21.04                                   | 0.127        | 21.08                                   | 0.128        | 20.90                                    | 0.123        |
|                          |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 243          | 25.23                                   | 0.333        | 25.17                                   | 0.329        | 25.01                                    | 0.317        |
|                          |              |                    | QPSK   |                    | 1          | 243          | 25.18                                   | 0.330        | 25.16                                   | 0.328        | 24.94                                    | 0.312        |
|                          |              |                    | BPSK   | Inner_Full         | 243        | 0            | 25.02                                   | 0.318        | 25.11                                   | 0.324        | 25.01                                    | 0.317        |
|                          |              |                    | QPSK   |                    | 243        | 0            | 25.10                                   | 0.324        | 25.05                                   | 0.320        | 25.03                                    | 0.318        |
|                          |              |                    | BPSK   | Outer_Full         | 1          | 0            | 24.62                                   | 0.290        | 24.67                                   | 0.293        | 24.47                                    | 0.280        |
|                          |              |                    | QPSK   |                    | 1          | 0            | 24.61                                   | 0.289        | 24.67                                   | 0.293        | 24.46                                    | 0.279        |
|                          |              |                    | BPSK   | Edge_1RB<br>Left   | 2          | 0            | 24.78                                   | 0.301        | 24.79                                   | 0.301        | 24.64                                    | 0.291        |
|                          |              |                    | QPSK   |                    | 2          | 0            | 24.73                                   | 0.297        | 24.77                                   | 0.300        | 24.55                                    | 0.285        |
|                          |              |                    | BPSK   | Edge_Full<br>Left  | 1          | 244          | 24.86                                   | 0.306        | 24.88                                   | 0.308        | 24.71                                    | 0.296        |
|                          |              |                    | QPSK   |                    | 1          | 244          | 24.89                                   | 0.308        | 24.89                                   | 0.308        | 24.75                                    | 0.299        |
|                          |              |                    | BPSK   | Edge_1RB<br>Right  | 2          | 243          | 24.25                                   | 0.266        | 24.22                                   | 0.264        | 24.00                                    | 0.251        |
|                          |              |                    | QPSK   |                    | 2          | 243          | 24.22                                   | 0.264        | 24.21                                   | 0.264        | 23.97                                    | 0.249        |
|                          |              |                    | BPSK   | Edge_Full<br>Right | 1          | 1            | 24.32                                   | 0.270        | 24.29                                   | 0.269        | 24.08                                    | 0.256        |
|                          |              |                    | QPSK   |                    | 1          | 1            | 24.34                                   | 0.272        | 24.10                                   | 0.257        | 24.11                                    | 0.258        |
|                          |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>24.31</b>                            | <b>0.270</b> | 23.73                                   | 0.374        | 24.11                                    | 0.258        |
|                          |              |                    | 16QAM  |                    | 1          | 1            | <b>23.82</b>                            | <b>0.241</b> | 23.80                                   | 0.240        | 23.63                                    | 0.231        |

| NR Band 77-Low Band (IC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |       |
|--------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|-------|-----------------------------------------|--------------|------------------------------------------|-------|
| BW<br>(MHz)              | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |       |
|                          |              |                    |        |                    |            |              | Low Channel<br>633334<br>(3 500.01 MHz) |       | Mid Channel<br>645000<br>(3 675.00 MHz) |              | High Channel<br>656666<br>(3 849.99 MHz) |       |
|                          |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |       |
|                          |              |                    |        |                    |            |              | (dB m)                                  | (W)   | (dB m)                                  | (W)          | (dB m)                                   | (W)   |
| 100                      | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.60                                   | 0.363 | 25.68                                   | 0.370        | 25.61                                    | 0.364 |
|                          |              |                    | QPSK   |                    | 1          | 1            | 25.60                                   | 0.363 | 25.63                                   | 0.366        | 25.61                                    | 0.364 |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 24.45                                   | 0.279 | <b>24.69</b>                            | <b>0.294</b> | 24.46                                    | 0.279 |
|                          |              |                    | 64QAM  |                    | 1          | 1            | 23.11                                   | 0.205 | 23.22                                   | 0.210        | 23.12                                    | 0.205 |
|                          |              |                    | 256QAM |                    | 1          | 1            | 20.90                                   | 0.123 | 21.09                                   | 0.129        | 20.91                                    | 0.123 |
|                          |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 271          | 25.12                                   | 0.325 | 25.12                                   | 0.325        | 25.13                                    | 0.326 |
|                          |              |                    | QPSK   |                    | 1          | 271          | 25.10                                   | 0.324 | 25.11                                   | 0.324        | 25.11                                    | 0.324 |
|                          |              |                    | BPSK   | Inner_Full         | 135        | 67           | 25.56                                   | 0.360 | <b>25.70</b>                            | <b>0.372</b> | 25.57                                    | 0.361 |
|                          |              |                    | QPSK   |                    | 135        | 67           | 25.56                                   | 0.360 | <b>25.72</b>                            | <b>0.373</b> | 25.57                                    | 0.361 |
|                          |              |                    | BPSK   | Outer_Full         | 270        | 0            | 24.57                                   | 0.286 | 24.72                                   | 0.296        | 24.58                                    | 0.287 |
|                          |              |                    | QPSK   |                    | 270        | 0            | 24.57                                   | 0.286 | 24.70                                   | 0.295        | 24.58                                    | 0.287 |
|                          |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.57                                   | 0.286 | 24.64                                   | 0.291        | 24.58                                    | 0.287 |
|                          |              |                    | QPSK   |                    | 1          | 0            | 24.55                                   | 0.285 | 24.74                                   | 0.298        | 24.56                                    | 0.286 |
|                          |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.64                                   | 0.291 | 24.72                                   | 0.296        | 24.65                                    | 0.292 |
|                          |              |                    | QPSK   |                    | 2          | 0            | 24.64                                   | 0.291 | 24.70                                   | 0.295        | 24.65                                    | 0.292 |
|                          |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 272          | 24.06                                   | 0.255 | 24.01                                   | 0.252        | 24.07                                    | 0.255 |
|                          |              |                    | QPSK   |                    | 1          | 272          | 24.05                                   | 0.254 | 24.01                                   | 0.252        | 24.06                                    | 0.255 |
|                          |              |                    | BPSK   | Edge_Full<br>Right | 2          | 271          | 24.13                                   | 0.259 | 24.09                                   | 0.256        | 24.14                                    | 0.259 |
|                          |              |                    | QPSK   |                    | 2          | 271          | 24.13                                   | 0.259 | 24.13                                   | 0.259        | 24.14                                    | 0.259 |
|                          |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.25                                   | 0.266 | <b>24.32</b>                            | <b>0.270</b> | 24.26                                    | 0.267 |
|                          |              |                    | 16QAM  |                    | 1          | 1            | 23.66                                   | 0.232 | <b>23.78</b>                            | <b>0.239</b> | 23.67                                    | 0.233 |

| NR Band 77-High Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |       |
|---------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|--------------|------------------------------------------|-------|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |       |
|                           |              |                    |        |                    |            |              | Low Channel<br>660668<br>(3 910.02 MHz) |              | Mid Channel<br>662666<br>(3 939.99 MHz) |              | High Channel<br>664666<br>(3 969.99 MHz) |       |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |       |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)   |
| 20                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.59                                   | 0.362        | 25.54                                   | 0.358        | 25.12                                    | 0.325 |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.54                                   | 0.358        | 25.56                                   | 0.360        | 25.11                                    | 0.324 |
|                           |              |                    | 16QAM  |                    | 1          | 1            | <b>24.50</b>                            | <b>0.282</b> | 24.47                                   | 0.280        | 24.00                                    | 0.251 |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.08                                   | 0.203        | 23.06                                   | 0.202        | 22.61                                    | 0.182 |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.84                                   | 0.121        | 20.85                                   | 0.122        | 20.51                                    | 0.112 |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 49           | 25.44                                   | 0.350        | 25.47                                   | 0.352        | 24.59                                    | 0.288 |
|                           |              |                    | QPSK   |                    | 1          | 49           | 25.45                                   | 0.351        | 25.34                                   | 0.342        | 24.58                                    | 0.287 |
|                           |              |                    | BPSK   | Inner_Full         | 25         | 12           | <b>25.62</b>                            | <b>0.365</b> | 25.57                                   | 0.361        | 24.86                                    | 0.306 |
|                           |              |                    | QPSK   |                    | 25         | 12           | <b>25.63</b>                            | <b>0.366</b> | 25.58                                   | 0.361        | 24.77                                    | 0.300 |
|                           |              |                    | BPSK   | Outer_Full         | 50         | 0            | 24.61                                   | 0.289        | 24.58                                   | 0.287        | 24.11                                    | 0.258 |
|                           |              |                    | QPSK   |                    | 50         | 0            | 24.59                                   | 0.288        | 24.56                                   | 0.286        | 23.96                                    | 0.249 |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.54                                   | 0.284        | 24.50                                   | 0.282        | 24.06                                    | 0.255 |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.49                                   | 0.281        | 24.50                                   | 0.282        | 24.05                                    | 0.254 |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.59                                   | 0.288        | 24.61                                   | 0.289        | 24.13                                    | 0.259 |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.53                                   | 0.284        | 24.61                                   | 0.289        | 24.14                                    | 0.259 |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 50           | 24.42                                   | 0.277        | 24.30                                   | 0.269        | 23.87                                    | 0.244 |
|                           |              |                    | QPSK   |                    | 1          | 50           | 24.41                                   | 0.276        | 24.27                                   | 0.267        | 23.78                                    | 0.239 |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 49           | 24.48                                   | 0.281        | 24.38                                   | 0.274        | 23.85                                    | 0.243 |
|                           |              |                    | QPSK   |                    | 2          | 49           | 24.48                                   | 0.281        | 24.34                                   | 0.272        | 23.96                                    | 0.249 |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.06                                   | 0.255        | <b>24.15</b>                            | <b>0.260</b> | 23.65                                    | 0.232 |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.56                                   | 0.227        | <b>23.57</b>                            | <b>0.228</b> | 23.02                                    | 0.200 |
| NR Band 77-High Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |       |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |       |
|                           |              |                    |        |                    |            |              | Low Channel<br>661000<br>(3 915.00 MHz) |              | Mid Channel<br>662666<br>(3 939.99 MHz) |              | High Channel<br>664332<br>(3 964.98 MHz) |       |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |       |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)   |
| 30                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>25.64</b>                            | <b>0.366</b> | 25.64                                   | 0.366        | 25.61                                    | 0.364 |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.62                                   | 0.365        | <b>25.65</b>                            | <b>0.367</b> | 25.60                                    | 0.363 |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.38                                   | 0.274        | <b>24.47</b>                            | <b>0.280</b> | 24.44                                    | 0.278 |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.14                                   | 0.206        | 23.14                                   | 0.206        | 23.11                                    | 0.205 |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.89                                   | 0.123        | 20.92                                   | 0.124        | 20.89                                    | 0.123 |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 76           | 25.41                                   | 0.348        | 25.42                                   | 0.348        | 25.39                                    | 0.346 |
|                           |              |                    | QPSK   |                    | 1          | 76           | 25.43                                   | 0.349        | 25.41                                   | 0.348        | 25.39                                    | 0.346 |
|                           |              |                    | BPSK   | Inner_Full         | 36         | 18           | 25.62                                   | 0.365        | 25.61                                   | 0.364        | 25.59                                    | 0.362 |
|                           |              |                    | QPSK   |                    | 36         | 18           | 25.61                                   | 0.364        | 25.61                                   | 0.364        | 25.59                                    | 0.362 |
|                           |              |                    | BPSK   | Outer_Full         | 75         | 0            | 24.57                                   | 0.286        | 24.58                                   | 0.287        | 24.55                                    | 0.285 |
|                           |              |                    | QPSK   |                    | 75         | 0            | 24.62                                   | 0.290        | 24.60                                   | 0.288        | 24.58                                    | 0.287 |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.51                                   | 0.282        | 24.57                                   | 0.286        | 24.54                                    | 0.284 |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.57                                   | 0.286        | 24.58                                   | 0.287        | 24.56                                    | 0.286 |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.60                                   | 0.288        | 24.64                                   | 0.291        | 24.61                                    | 0.289 |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.60                                   | 0.288        | 24.64                                   | 0.291        | 24.61                                    | 0.289 |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 77           | 24.40                                   | 0.275        | 24.40                                   | 0.275        | 24.37                                    | 0.274 |
|                           |              |                    | QPSK   |                    | 1          | 77           | 24.37                                   | 0.274        | 24.37                                   | 0.274        | 24.34                                    | 0.272 |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 76           | 24.45                                   | 0.279        | 24.40                                   | 0.275        | 24.38                                    | 0.274 |
|                           |              |                    | QPSK   |                    | 2          | 76           | 24.45                                   | 0.279        | 24.45                                   | 0.279        | 24.43                                    | 0.277 |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.10                                   | 0.257        | <b>24.15</b>                            | <b>0.260</b> | 24.13                                    | 0.259 |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.52                                   | 0.225        | <b>23.60</b>                            | <b>0.229</b> | 23.57                                    | 0.228 |

| NR Band 77-High Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
|---------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|--------------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>661334<br>(3 920.01 MHz) |              | Mid Channel<br>662666<br>(3 939.99 MHz) |              | High Channel<br>664000<br>(3 960.00 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 40                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.53                                   | 0.357        | 25.46                                   | 0.352        | 25.55                                    | 0.359        |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.57                                   | 0.361        | 25.50                                   | 0.355        | 25.56                                    | 0.360        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.27                                   | 0.267        | 24.20                                   | 0.263        | <b>24.40</b>                             | <b>0.275</b> |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.06                                   | 0.202        | 22.99                                   | 0.199        | 23.01                                    | 0.200        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.85                                   | 0.122        | 20.78                                   | 0.120        | 20.82                                    | 0.121        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 104          | 25.46                                   | 0.352        | 25.39                                   | 0.346        | 25.34                                    | 0.342        |
|                           |              |                    | QPSK   |                    | 1          | 104          | 25.47                                   | 0.352        | 25.40                                   | 0.347        | 25.32                                    | 0.340        |
|                           |              |                    | BPSK   | Inner_Full         | 50         | 25           | <b>25.65</b>                            | <b>0.367</b> | 25.58                                   | 0.361        | 24.86                                    | 0.306        |
|                           |              |                    | QPSK   |                    | 50         | 25           | <b>25.70</b>                            | <b>0.372</b> | 25.63                                   | 0.366        | 24.97                                    | 0.314        |
|                           |              |                    | BPSK   | Outer_Full         | 100        | 0            | 24.68                                   | 0.294        | 24.61                                   | 0.289        | 24.28                                    | 0.268        |
|                           |              |                    | QPSK   |                    | 100        | 0            | 24.58                                   | 0.287        | 24.51                                   | 0.282        | 24.46                                    | 0.279        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.50                                   | 0.282        | 24.43                                   | 0.277        | 24.49                                    | 0.281        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.50                                   | 0.282        | 24.43                                   | 0.277        | 24.48                                    | 0.281        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.58                                   | 0.287        | 24.51                                   | 0.282        | 24.54                                    | 0.284        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.57                                   | 0.286        | 24.50                                   | 0.282        | 24.54                                    | 0.284        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 105          | 24.36                                   | 0.273        | 24.29                                   | 0.269        | 24.25                                    | 0.266        |
|                           |              |                    | QPSK   |                    | 1          | 105          | 24.35                                   | 0.272        | 24.28                                   | 0.268        | 24.25                                    | 0.266        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 104          | 24.42                                   | 0.277        | 24.35                                   | 0.272        | 24.36                                    | 0.273        |
|                           |              |                    | QPSK   |                    | 2          | 104          | 24.42                                   | 0.277        | 24.35                                   | 0.272        | 24.34                                    | 0.272        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | <b>24.12</b>                            | <b>0.258</b> | 24.05                                   | 0.254        | 24.10                                    | 0.257        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.54                                   | 0.226        | 23.47                                   | 0.222        | <b>23.56</b>                             | <b>0.227</b> |
| NR Band 77-High Band (IC) |              |                    |        |                    |            |              |                                         |              |                                         |              |                                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |              |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>661668<br>(3 925.02 MHz) |              | Mid Channel<br>662666<br>(3 939.99 MHz) |              | High Channel<br>663666<br>(3 954.99 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |              |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)          | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 50                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.68                                   | 0.370        | <b>25.97</b>                            | <b>0.395</b> | 25.79                                    | 0.379        |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.71                                   | 0.372        | <b>25.98</b>                            | <b>0.396</b> | 25.81                                    | 0.381        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.59                                   | 0.288        | 24.60                                   | 0.288        | <b>24.81</b>                             | <b>0.303</b> |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.18                                   | 0.208        | 23.39                                   | 0.218        | 23.45                                    | 0.221        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.97                                   | 0.125        | 21.15                                   | 0.130        | 21.23                                    | 0.133        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 131          | 25.48                                   | 0.353        | 25.37                                   | 0.344        | 25.57                                    | 0.361        |
|                           |              |                    | QPSK   |                    | 1          | 131          | 25.52                                   | 0.356        | 25.25                                   | 0.335        | 25.58                                    | 0.361        |
|                           |              |                    | BPSK   | Inner_Full         | 64         | 32           | 25.81                                   | 0.381        | 25.28                                   | 0.337        | 25.79                                    | 0.379        |
|                           |              |                    | QPSK   |                    | 64         | 32           | 25.83                                   | 0.383        | 25.28                                   | 0.337        | 25.76                                    | 0.377        |
|                           |              |                    | BPSK   | Outer_Full         | 128        | 0            | 24.76                                   | 0.299        | 24.68                                   | 0.294        | 24.89                                    | 0.308        |
|                           |              |                    | QPSK   |                    | 128        | 0            | 24.70                                   | 0.295        | 24.67                                   | 0.293        | 24.89                                    | 0.308        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.65                                   | 0.292        | 24.82                                   | 0.303        | 24.89                                    | 0.308        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.62                                   | 0.290        | 24.82                                   | 0.303        | 24.89                                    | 0.308        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.71                                   | 0.296        | 24.92                                   | 0.310        | 24.98                                    | 0.315        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.71                                   | 0.296        | 24.92                                   | 0.310        | 24.96                                    | 0.313        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 132          | 24.47                                   | 0.280        | 24.36                                   | 0.273        | 24.47                                    | 0.280        |
|                           |              |                    | QPSK   |                    | 1          | 132          | 24.46                                   | 0.279        | 24.34                                   | 0.272        | 24.46                                    | 0.279        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 131          | 24.53                                   | 0.284        | 24.43                                   | 0.277        | 24.56                                    | 0.286        |
|                           |              |                    | QPSK   |                    | 2          | 131          | 24.53                                   | 0.284        | 24.43                                   | 0.277        | 24.59                                    | 0.288        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.28                                   | 0.268        | 24.26                                   | 0.267        | <b>24.55</b>                             | <b>0.285</b> |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.71                                   | 0.235        | <b>23.89</b>                            | <b>0.245</b> | 23.86                                    | 0.243        |

| NR Band 77-High Band (IC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
|---------------------------|--------------|--------------------|--------|--------------------|------------|--------------|-----------------------------------------|-------|-----------------------------------------|--------------|------------------------------------------|--------------|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>662000<br>(3 930.00 MHz) |       | Mid Channel<br>662666<br>(3 939.99 MHz) |              | High Channel<br>663332<br>(3 949.98 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)   | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 60                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.44                                   | 0.350 | 25.46                                   | 0.352        | 25.42                                    | 0.348        |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.42                                   | 0.348 | 25.44                                   | 0.350        | 25.40                                    | 0.347        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.40                                   | 0.275 | 24.36                                   | 0.273        | <b>24.45</b>                             | <b>0.279</b> |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.00                                   | 0.200 | 22.99                                   | 0.199        | 23.05                                    | 0.202        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.78                                   | 0.120 | 20.75                                   | 0.119        | 20.89                                    | 0.123        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 160          | 25.07                                   | 0.321 | 25.25                                   | 0.335        | 25.19                                    | 0.330        |
|                           |              |                    | QPSK   |                    | 1          | 160          | 25.05                                   | 0.320 | 25.23                                   | 0.333        | 25.18                                    | 0.330        |
|                           |              |                    | BPSK   | Inner_Full         | 81         | 40           | 25.27                                   | 0.337 | 25.47                                   | 0.352        | <b>25.55</b>                             | <b>0.359</b> |
|                           |              |                    | QPSK   |                    | 81         | 40           | 25.27                                   | 0.337 | 25.47                                   | 0.352        | <b>25.56</b>                             | <b>0.360</b> |
|                           |              |                    | BPSK   | Outer_Full         | 162        | 0            | 24.38                                   | 0.274 | 24.53                                   | 0.284        | 24.54                                    | 0.284        |
|                           |              |                    | QPSK   |                    | 162        | 0            | 24.34                                   | 0.272 | 24.52                                   | 0.283        | 24.56                                    | 0.286        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.46                                   | 0.279 | 24.43                                   | 0.277        | 24.50                                    | 0.282        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.47                                   | 0.280 | 24.43                                   | 0.277        | 24.48                                    | 0.281        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.56                                   | 0.286 | 24.50                                   | 0.282        | 24.55                                    | 0.285        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.57                                   | 0.286 | 24.51                                   | 0.282        | 24.54                                    | 0.284        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 161          | 24.02                                   | 0.252 | 24.18                                   | 0.262        | 24.13                                    | 0.259        |
|                           |              |                    | QPSK   |                    | 1          | 161          | 24.00                                   | 0.251 | 24.16                                   | 0.261        | 24.11                                    | 0.258        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 160          | 24.08                                   | 0.256 | 24.25                                   | 0.266        | 24.21                                    | 0.264        |
|                           |              |                    | QPSK   |                    | 2          | 160          | 24.08                                   | 0.256 | 24.24                                   | 0.265        | 24.18                                    | 0.262        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.12                                   | 0.258 | 24.06                                   | 0.255        | <b>24.14</b>                             | <b>0.259</b> |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.65                                   | 0.232 | 23.57                                   | 0.228        | <b>23.67</b>                             | <b>0.233</b> |
| NR Band 77-High Band (IC) |              |                    |        |                    |            |              |                                         |       |                                         |              |                                          |              |
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power                  |       |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | Low Channel<br>662334<br>(3 935.01 MHz) |       | Mid Channel<br>662666<br>(3 939.99 MHz) |              | High Channel<br>663000<br>(3 945.00 MHz) |              |
|                           |              |                    |        |                    |            |              | Port 1 + Port 2                         |       |                                         |              |                                          |              |
|                           |              |                    |        |                    |            |              | (dB m)                                  | (W)   | (dB m)                                  | (W)          | (dB m)                                   | (W)          |
| 70                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | 25.59                                   | 0.362 | 25.59                                   | 0.362        | 25.56                                    | 0.360        |
|                           |              |                    | QPSK   |                    | 1          | 1            | 25.54                                   | 0.358 | 25.55                                   | 0.359        | 25.52                                    | 0.356        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 24.30                                   | 0.269 | <b>24.60</b>                            | <b>0.288</b> | 24.57                                    | 0.286        |
|                           |              |                    | 64QAM  |                    | 1          | 1            | 23.09                                   | 0.204 | 23.20                                   | 0.209        | 23.17                                    | 0.207        |
|                           |              |                    | 256QAM |                    | 1          | 1            | 20.88                                   | 0.122 | 21.00                                   | 0.126        | 20.97                                    | 0.125        |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 187          | 25.30                                   | 0.339 | 25.19                                   | 0.330        | 25.16                                    | 0.328        |
|                           |              |                    | QPSK   |                    | 1          | 187          | 25.28                                   | 0.337 | 25.27                                   | 0.337        | 25.24                                    | 0.334        |
|                           |              |                    | BPSK   | Inner_Full         | 90         | 45           | 25.61                                   | 0.364 | <b>25.84</b>                            | <b>0.384</b> | 25.81                                    | 0.381        |
|                           |              |                    | QPSK   |                    | 90         | 45           | 25.63                                   | 0.366 | <b>25.85</b>                            | <b>0.385</b> | 25.81                                    | 0.381        |
|                           |              |                    | BPSK   | Outer_Full         | 180        | 0            | 24.60                                   | 0.288 | 24.76                                   | 0.299        | 24.73                                    | 0.297        |
|                           |              |                    | QPSK   |                    | 180        | 0            | 24.60                                   | 0.288 | 24.77                                   | 0.300        | 24.74                                    | 0.298        |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | 24.52                                   | 0.283 | 24.63                                   | 0.290        | 24.60                                    | 0.288        |
|                           |              |                    | QPSK   |                    | 1          | 0            | 24.51                                   | 0.282 | 24.62                                   | 0.290        | 24.59                                    | 0.288        |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | 24.61                                   | 0.289 | 24.70                                   | 0.295        | 24.67                                    | 0.293        |
|                           |              |                    | QPSK   |                    | 2          | 0            | 24.63                                   | 0.290 | 24.69                                   | 0.294        | 24.66                                    | 0.292        |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 188          | 24.21                                   | 0.264 | 24.12                                   | 0.258        | 24.09                                    | 0.256        |
|                           |              |                    | QPSK   |                    | 1          | 188          | 24.19                                   | 0.262 | 24.23                                   | 0.265        | 24.20                                    | 0.263        |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 187          | 24.32                                   | 0.270 | 24.21                                   | 0.264        | 24.18                                    | 0.262        |
|                           |              |                    | QPSK   |                    | 2          | 187          | 24.33                                   | 0.271 | 24.21                                   | 0.264        | 24.18                                    | 0.262        |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | 24.19                                   | 0.262 | <b>24.32</b>                            | <b>0.270</b> | 24.29                                    | 0.269        |
|                           |              |                    | 16QAM  |                    | 1          | 1            | 23.58                                   | 0.228 | <b>23.74</b>                            | <b>0.237</b> | 23.71                                    | 0.235        |

| NR Band 77-High Band (IC) |              |                    |        |                    |            |              |                        |     |                                         |              |        |     |
|---------------------------|--------------|--------------------|--------|--------------------|------------|--------------|------------------------|-----|-----------------------------------------|--------------|--------|-----|
| BW<br>(MHz)               | SCS<br>(kHz) | Modulation         |        | RB<br>allocation   | RB<br>Size | RB<br>Offset | Conducted Output Power |     |                                         |              |        |     |
|                           |              |                    |        |                    |            |              | -                      |     | Mid Channel<br>662666<br>(3 939.99 MHz) |              | -      |     |
|                           |              |                    |        |                    |            |              |                        |     | Port 1 + Port 2                         |              |        |     |
|                           |              |                    |        |                    |            |              | (dB m)                 | (W) | (dB m)                                  | (W)          | (dB m) | (W) |
| 80                        | 30           | DFT<br>-S-<br>OFDM | BPSK   | Inner_1RB<br>Left  | 1          | 1            | -                      | -   | 25.49                                   | 0.354        | -      | -   |
|                           |              |                    | QPSK   |                    | 1          | 1            | -                      | -   | 25.43                                   | 0.349        | -      | -   |
|                           |              |                    | 16QAM  |                    | 1          | 1            | -                      | -   | <b>24.38</b>                            | <b>0.274</b> | -      | -   |
|                           |              |                    | 64QAM  |                    | 1          | 1            | -                      | -   | 23.15                                   | 0.207        | -      | -   |
|                           |              |                    | 256QAM |                    | 1          | 1            | -                      | -   | 20.96                                   | 0.125        | -      | -   |
|                           |              |                    | BPSK   | Inner_1RB<br>Right | 1          | 215          | -                      | -   | 25.10                                   | 0.324        | -      | -   |
|                           |              |                    | QPSK   |                    | 1          | 215          | -                      | -   | 25.08                                   | 0.322        | -      | -   |
|                           |              |                    | BPSK   | Inner_Full         | 108        | 54           | -                      | -   | <b>25.73</b>                            | <b>0.374</b> | -      | -   |
|                           |              |                    | QPSK   |                    | 108        | 54           | -                      | -   | <b>25.74</b>                            | <b>0.375</b> | -      | -   |
|                           |              |                    | BPSK   | Outer_Full         | 216        | 0            | -                      | -   | 24.60                                   | 0.288        | -      | -   |
|                           |              |                    | QPSK   |                    | 216        | 0            | -                      | -   | 24.61                                   | 0.289        | -      | -   |
|                           |              |                    | BPSK   | Edge_1RB<br>Left   | 1          | 0            | -                      | -   | 24.62                                   | 0.290        | -      | -   |
|                           |              |                    | QPSK   |                    | 1          | 0            | -                      | -   | 24.60                                   | 0.288        | -      | -   |
|                           |              |                    | BPSK   | Edge_Full<br>Left  | 2          | 0            | -                      | -   | 24.68                                   | 0.294        | -      | -   |
|                           |              |                    | QPSK   |                    | 2          | 0            | -                      | -   | 24.68                                   | 0.294        | -      | -   |
|                           |              |                    | BPSK   | Edge_1RB<br>Right  | 1          | 216          | -                      | -   | 24.03                                   | 0.253        | -      | -   |
|                           |              |                    | QPSK   |                    | 1          | 216          | -                      | -   | 24.02                                   | 0.252        | -      | -   |
|                           |              |                    | BPSK   | Edge_Full<br>Right | 2          | 215          | -                      | -   | 24.12                                   | 0.258        | -      | -   |
|                           |              |                    | QPSK   |                    | 2          | 215          | -                      | -   | 24.11                                   | 0.258        | -      | -   |
|                           |              | CP<br>OFDM         | QPSK   | Inner_1RB<br>Left  | 1          | 1            | -                      | -   | <b>24.28</b>                            | <b>0.268</b> | -      | -   |
|                           |              |                    | 16QAM  |                    | 1          | 1            | -                      | -   | <b>23.66</b>                            | <b>0.232</b> | -      | -   |